Protection and Control Relay

620 SERIES

IEC 61850 ED1 Model Implementation Conformance Statement (MICS) for 620 SERIES

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1 About this manual

1.1 Read it first!

Before attempting any operation with IED from 620 series, read carefully the IED documentation first.

This document is addressed to anyone who needs to interact with 620 series and its IEC 61850 features in more detail.

1.2 Document information

Revision History

Revision	Date	Note
A	01 Feb. 2013	620 series v2.0
B	28 Aug 2015	620 series v2.1

Applicability

This manual is applicable to all 620 series Protection and Control IED versions mentioned in document Revision History above or newer versions if document update is not required.

1.3 Safety Information

There are safety warnings and notes in the following text. They are in a different format to distinguish them from normal text.

Safety warning

The safety warnings should always be observed. Non-observance can result in death, personal injury or substantial damages to property. Guarantee claims might not be accepted when safety warnings are not respected. They look like below:

Do not make any changes to the 620 SERIES configurations unless you are familiar with the 620 SERIES and its configuration tool. This might result in disoperation and loss of warranty.

Note

A note contains additional information worth noting in the specific context, and looks like below:

The selection of this control mode requires caution, because operations are allowed both from the HMI and remotely.

2 Abbreviations and Definitions

2.1 Abbreviations

FTP	**F**ile **T**ransfer **P**rotocol
GOOSE	**G**eneric **O**bject **O**riented **S**ubstation **E**vent
GPS	**G**lobal **P**ositioning **S**ystem
GSE	**G**eneric **S**ubstation **E**vent
GSSE	**G**eneric **S**ubstation **S**tatus **E**vent
HMI	**H**uman **M**achine **I**nterface
IED	**I**ntelligent **E**lectronic **D**evice
LED	**L**ight **E**mitting **D**iode
MAC	**M**edia **A**ccess **C**ontrol
MICS	**M**odel **I**mplementation **C**onformance **S**tatement
MMS	**M**anufacturing **M**essage **S**pecification
M/O	**M**andatory/**O**ptional
N	**N**o
PICS	**P**rotocol **I**mplementation **C**onformance **S**tatement
PIXIT	**P**rotocol **I**mplementation e**X**tra **I**nformation for **T**esting
SCADA	**S**upervision, **C**ontrol **a**nd **D**ata **A**cquisition
SLD	**S**ingle **L**ine **D**iagram
XML	e**X**tensible **M**arkup **L**anguage
Y	**Y**es

2.2 Definitions

Operational State	the unit is active and it is protecting and controlling the switchgear.
Stand-alone	the unit is not connected to a SCADA system.

3 References

Ref	Document id	Rev	Document title
[1]	61850-8-1 First edition 2004-05		Communication networks and systems in substations Part 8-1: Specific communication service mapping (SCSM) – Map-pings to MMS (ISO/IEC 9506 Part 1 and Part 2) and to ISO/IEC 8802-3
[2]	61850-10 First edition 2005-05		Communication networks and systems in substations – Part 10: Conformance testing
[3]	IEC61850-7-2 First edition 2003-05		Communication networks and systems in substations – Part 7-2: Basic communication structure for substation and feeder equipment – Abstract communication service interface (ACSI)
[4]	IEC61850-6 First edition 2004-03		Communication networks and systems in substations - Part 6: Configuration description language for communication in electrical substations related to IEDs
[5]	IEC61850-7-3 First edition 2003-05		Communication networks and systems in substations – Part 7-3: Basic communication structure for substation and feeder equipment – Common data classes
[6]	IEC61850-7-4 First Edition 2003-05		Communication networks and systems in substations – Part 7-4:

4 Introduction

This document specifies the model implementation conformance statement (MICS) of the IEC 61850 communication for 620 SERIES.

Together with the PICS and the PIXIT the MICS forms the basis for a conformance test according to IEC 61850-10.

In this document all Logical Nodes with additional Data Objects are listed with intended use for extensions. In these cases dataNs refers to this document. Also Data Objects with different namespace as standard CDC describes are listed. In these cases cdcNs data attribute refers to this document. Extended data classes' new Data Attributes are introduced.

5 Logical Nodes List

L:System logical nodes		
LLN0	LD0.LLN0	Protection LLN0
	CTRL.LLN0	Control LLN0
	DR.LLN0	DR LLN0
	MU01.LLN0	Std conformance
LPHD	LD0.LPHD1	Physical device
	CTRL.LPHD1	Std conformance
	DR.LPHD1	Physical device information
	MU01.LPHD1	Std conformance
LINF	LD0.LINF1	Customer information
LDEV	LD0.LDEV1	Device
LPRT	LD0.GSELPRT1	GSELPRT1,GSE
	LD0.MMSLPRT1	61850-8-1 MMS
	LD0.MBSLPRT1	Modbus
	LD0.MBSLPRT2	Modbus
	LD0.MBSLPRT3	Modbus
	LD0.MBSLPRT4	Modbus
	LD0.MBSLPRT5	Modbus
	LD0.I3CLPRT1	IEC60870-5-103
	LD0.I3CLPRT2	IEC60870-5-103
	LD0.DNPLPRT1	DNP 3.0
	LD0.DNPLPRT2	DNP 3.0
	LD0.DNPLPRT3	DNP 3.0
	LD0.DNPLPRT4	DNP 3.0
	LD0.DNPLPRT5	DNP 3.0
LTMS (ED2)	LD0.GNRLLTMS1	GNRLLTMS1,TSYNC(1)
LTMM (ED1)	LD0.GNRLLTMM1	GNRLLTMS1,TSYNC(1)
LTIM	LD0.GNRLLTIM1	GNRLLTIM1
LCCH	LD0.SERLCCH1	Serial Port 1 Supervision
	LD0.SERLCCH2	Serial Port 2 Supervision
	LD0.RCHLCCH1	Redundant Ethernet
	LD0.SCHLCCH1	X1/X16 port Ethernet channel
	LD0.SCHLCCH2	X2 port Ethernet channel
	LD0.SCHLCCH3	X3 port Ethernet channel
LSVS (ED2)	LD0.SMVLSVS1	SMVRCV1
LSVM (ED1)	LD0.SMVLSVM1	SMVRCV1
A:Logical nodes for automatic control		
ATCC	LD0.OLATCC1	OLATCC1,90V(1),COLTC(1)
C:Logical nodes for control		
CALH	LD0.UPCALH1	UPCALH1
	LD0.UPCALH2	UPCALH2

	LD0.UPCALH3	UPCALH3
CILO	CTRL.CBCILO1	CBXCBR1,I<->O CB(1)
	CTRL.CBCILO2	CBXCBR2,I<->O CB(2)
	CTRL.CBCILO3	CBXCBR3,I<->O CB(3)
	CTRL.DCCILO1	DCXSWI1,I<->O DCC(1)
	CTRL.DCCILO2	DCXSWI2,I<->O DCC(2)
	CTRL.DCCILO3	DCXSWI3,I<->O DCC(3)
	CTRL.DCCILO4	DCXSWI4,I<->O DCC(4)
	CTRL.ESCILO1	ESXSWI1,I<->O ESC(1)
	CTRL.ESCILO2	ESXSWI2,I<->O ESC(2)
	CTRL.ESCILO3	ESXSWI3,I<->O ESC(3)
CSWI	CTRL.CBCSWI1	CBXCBR1,I<->O CB(1)
	CTRL.CBCSWI2	CBXCBR2,I<->O CB(2)
	CTRL.CBCSWI3	CBXCBR3,I<->O CB(3)
	CTRL.DCCSWI1	DCXSWI1,I<->O DCC(1)
	CTRL.DCCSWI2	DCXSWI2,I<->O DCC(2)
	CTRL.DCCSWI3	DCXSWI3,I<->O DCC(3)
	CTRL.DCCSWI4	DCXSWI4,I<->O DCC(4)
	CTRL.DCSCSWI1	DCSXSWI1,I<->O DC(1)
	CTRL.DCSCSWI2	DCSXSWI2,I<->O DC(2)
	CTRL.DCSCSWI3	DCSXSWI3,I<->O DC(3)
	CTRL.DCSCSWI4	DCSXSWI4,I<->O DC(4)
	CTRL.ESCSWI1	ESXSWI1,I<->O ESC(1)
	CTRL.ESCSWI2	ESXSWI2,I<->O ESC(2)
	CTRL.ESCSWI3	ESXSWI3,I<->O ESC(3)
	CTRL.ESSCSWI1	ESSXSWI1,I<->O ES(1)
	CTRL.ESSCSWI2	ESSXSWI2,I<->O ES(2)
	CTRL.ESSCSWI3	ESSXSWI3,I<->O ES(3)
F:Logical nodes for functional blocks		
FCNT	LD0.UDFCNT1	UDFCNT1,UDCNT(1)
	LD0.UDFCNT2	UDFCNT2,UDCNT(2)
	LD0.UDFCNT3	UDFCNT3,UDCNT(3)
	LD0.UDFCNT4	UDFCNT4,UDCNT(4)
	LD0.UDFCNT5	UDFCNT5,UDCNT(5)
	LD0.UDFCNT6	UDFCNT6,UDCNT(6)
	LD0.UDFCNT7	UDFCNT7,UDCNT(7)
	LD0.UDFCNT8	UDFCNT8,UDCNT(8)
	LD0.UDFCNT9	UDFCNT9,UDCNT(9)
	LD0.UDFCNT10	UDFCNT10,UDCNT(10)
	LD0.UDFCNT11	UDFCNT11,UDCNT(11)
	LD0.UDFCNT12	UDFCNT12,UDCNT(12)
G:Logical Nodes for generic references		

GSAL	LD0.GSAL1	Security application
GGIO	LD0.XGGIO100	X100 (PSM)
	LD0.LEDGGIO1	Programmable LEDs
	LD0.FKEYGGIO1	FKEYGGIO1,FKEY(1)
	LD0.XGGIO120	X120 (AIM)
	LD0.XAGGIO130	X130 (AIM)
	LD0.XSGGIO130	X130 (SIM)
	LD0.XAGGIO120	X120 (AIM2),(X120 (AIM2))
	LD0.XAGGIO115	X115 (AIM3)
	LD0.XGGIO110	X110 (BIO)
	LD0.XBGGIO115	X115 (BIO)
	LD0.XGGIO105	X105 (BIO)
	LD0.XHBGGIO105	X105 (BIO-H)
	LD0.XRGGIO110	X110 (RTD)
	LD0.XRGGIO105	X105 (RTD)
	LD0.XBRGGIO130	X130 (BIO+RTD)
	LD0.XGGIO90	X000 (COM)
GAPC	LD0.MAPGAPC1	MAPGAPC1,MAP(1)
	LD0.MAPGAPC2	MAPGAPC2,MAP(2)
	LD0.MAPGAPC3	MAPGAPC3,MAP(3)
	LD0.MAPGAPC4	MAPGAPC4,MAP(4)
	LD0.MAPGAPC5	MAPGAPC5,MAP(5)
	LD0.MAPGAPC6	MAPGAPC6,MAP(6)
	LD0.MAPGAPC7	MAPGAPC7,MAP(7)
	LD0.MAPGAPC8	MAPGAPC8,MAP(8)
	LD0.MAPGAPC9	MAPGAPC9,MAP(9)
	LD0.MAPGAPC10	MAPGAPC10,MAP(10)
	LD0.MAPGAPC11	MAPGAPC11,MAP(11)
	LD0.MAPGAPC12	MAPGAPC12,MAP(12)
	LD0.MAPGAPC13	MAPGAPC13,MAP(13)
	LD0.MAPGAPC14	MAPGAPC14,MAP(14)
	LD0.MAPGAPC15	MAPGAPC15,MAP(15)
	LD0.MAPGAPC16	MAPGAPC16,MAP(16)
	LD0.MAPGAPC17	MAPGAPC17,MAP(17)
	LD0.MAPGAPC18	MAPGAPC18,MAP(18)
	LD0.TPGAPC1	TPGAPC1,TP(1)
	LD0.TPGAPC2	TPGAPC2,TP(2)
	LD0.TPGAPC3	TPGAPC3,TP(3)
	LD0.TPGAPC4	TPGAPC4,TP(4)
	LD0.TPSGAPC1	TPSGAPC1,TPS(1)
	LD0.TPSGAPC2	TPSGAPC2,TPS(2)
	LD0.TPMGAPC1	TPMGAPC1,TPM(1)

	LD0.TPMGAPC2	TPMGAPC2,TPM(2)
	LD0.PTGAPC1	PTGAPC1,PT(1)
	LD0.PTGAPC2	PTGAPC2,PT(2)
	LD0.TOFGAPC1	TOFGAPC1,TOF(1)
	LD0.TOFGAPC2	TOFGAPC2,TOF(2)
	LD0.TOFGAPC3	TOFGAPC3,TOF(3)
	LD0.TOFGAPC4	TOFGAPC4,TOF(4)
	LD0.TONGAPC1	TONGAPC1,TON(1)
	LD0.TONGAPC2	TONGAPC2,TON(2)
	LD0.TONGAPC3	TONGAPC3,TON(3)
	LD0.TONGAPC4	TONGAPC4,TON(4)
	LD0.SRGAPC1	SRGAPC1,SR(1)
	LD0.SRGAPC2	SRGAPC2,SR(2)
	LD0.SRGAPC3	SRGAPC3,SR(3)
	LD0.SRGAPC4	SRGAPC4,SR(4)
	LD0.MVGAPC1	MVGAPC1,MV(1)
	LD0.MVGAPC2	MVGAPC2,MV(2)
	LD0.MVGAPC3	MVGAPC3,MV(3)
	LD0.MVGAPC4	MVGAPC4,MV(4)
	LD0.MVI4GAPC1	MVI4GAPC1,MVI4(1)
	LD0.MVI4GAPC2	MVI4GAPC2,MVI4(2)
	LD0.MVI4GAPC3	MVI4GAPC3,MVI4(3)
	LD0.MVI4GAPC4	MVI4GAPC4,MVI4(4)
	LD0.SCA4GAPC1	SCA4GAPC1,SCA4(1)
	LD0.SCA4GAPC2	SCA4GAPC2,SCA4(2)
	LD0.SCA4GAPC3	SCA4GAPC3,SCA4(3)
	LD0.SCA4GAPC4	SCA4GAPC4,SCA4(4)
	LD0.SPCGAPC1	SPCGAPC1,SPC(1)
	LD0.SPCGAPC2	SPCGAPC2,SPC(2)
	LD0.SPCGAPC3	SPCGAPC3,SPC(3)
	LD0.SPCRGAPC1	SPCRGAPC1,SPCR(1)
	LD0.SPCLGAPC1	SPCLGAPC1,SPCL(1)
	LD0.ESMGAPC1	ESMGAPC1,ESTART(1)
I:Logical Nodes for archiving		
IHMI	LD0.IHMI1	Device
M:Logical Nodes for metering and measurement		
MMXU	LD0.CMMXU1	CMMXU1,3I(1)
	LD0.CAVMMXU1	CMMXU1,3I(1)
	LD0.CMAMMXU1	CMMXU1,3I(1)
	LD0.CMIMMXU1	CMMXU1,3I(1)
	LD0.PEMMXU1	PEMMXU1,P,E(1)
	LD0.PEAVMMXU1	PEMMXU1,P,E(1)

	LD0.PEMAMMXU1	PEMMXU1,P,E(1)
	LD0.PEMIMMXU1	PEMMXU1,P,E(1)
	LD0.FMMXU1	FMMXU1,f(1)
	LD0.WMMXU1	WPWDE1,32N(1),Po>->(1)
	LD0.WMMXU2	WPWDE2,32N(2),Po>->(2)
	LD0.WMMXU3	WPWDE3,32N(3),Po>->(3)
	LD0.RESCMMXU1	RESCMMXU1,In(1),Io(1)
	LD0.RCAVMMXU1	RESCMMXU1,In(1),Io(1)
	LD0.RCMAMMXU1	RESCMMXU1,In(1),Io(1)
	LD0.RCMIMMXU1	RESCMMXU1,In(1),Io(1)
	LD0.VAMMXU2	VAMMXU2,V_A(2),U_A(2)
	LD0.VAAVMMXU2	VAAVMMXU2
	LD0.RESVMMXU1	RESVMMXU1,Vn(1),Uo(1)
	LD0.RVAVMMXU1	RESVMMXU1,Vn(1),Uo(1)
	LD0.RVMAMMXU1	RESVMMXU1,Vn(1),Uo(1)
	LD0.RVMIMMXU1	RESVMMXU1,Vn(1),Uo(1)
	LD0.CMMXU2	CMMXU2,3I(2)
	LD0.CAVMMXU2	CMMXU2,3I(2)
	LD0.CMAMMXU2	CMMXU2,3I(2)
	LD0.CMIMMXU2	CMMXU2,3I(2)
	LD0.DPMMXU1	DUPPDPR1,32U(1),P<(1)
	LD0.DPMMXU2	DUPPDPR2,32U(2),P<(2)
	LD0.DOPMMXU1	DOPPDPR1,32R/32O(1),P>/Q>(1)
	LD0.DOPMMXU2	DOPPDPR2,32R/32O(2),P>/Q>(2)
	LD0.DOPMMXU3	DOPPDPR3,32R/32O(3),P>/Q>(3)
	LD0.RESCMMXU2	RESCMMXU2,In(2),Io(2)
	LD0.RCAVMMXU2	RESCMMXU2,In(2),Io(2)
	LD0.RCMAMMXU2	RESCMMXU2,In(2),Io(2)
	LD0.RCMIMMXU2	RESCMMXU2,In(2),Io(2)
	LD0.VAMMXU3	VAMMXU3,V_A(3),U_A(3)
	LD0.VAAVMMXU3	VAAVMMXU3
	LD0.VMMXU1	VMMXU1,3V(1),3U(1)
	LD0.VAVMMXU1	VMMXU1,3V(1),3U(1)
	LD0.DQMMXU1	DQPTUV1,32Q,27(1),Q>->,3U<(1)
	LD0.DQMMXU2	DQPTUV2,32Q,27(2),Q>->,3U<(2)
	LD0.UEXMMXU1	UEXPDIS1,40(1),X<(1)
	LD0.UEXMMXU2	UEXPDIS2,40(2),X<(2)
MSQI	LD0.CSMSQI1	CSMSQI1,I1,I2,I0(1)
	LD0.CSMSQI2	CSMSQI2,I1,I2,I0(B)(1)
	LD0.VSMSQI1	VSMSQI1,V1,V2,V0(1),U1,U2,U0(1)
MMTR	LD0.PEMMTR1	PEMMXU1,P,E(1)
MHAI	LD0.CMHAI1	CMHAI1,PQM3I(1)

	LD0.VMHAI1	VMHAI1,PQM3V(1),PQM3U(1)
	LD0.HAEFMHAI1	HAEFPTOC1,51NHA(1),Io>HA(1)
P:Logical Nodes for protection functions		
PTOC	LD0.PHLPTOC1	PHLPTOC1,51P-1(1),3I>(1)
	LD0.PHHPTOC1	PHHPTOC1,51P-2(1),3I>>(1)
	LD0.PHHPTOC2	PHHPTOC2,51P-2(2),3I>>(2)
	LD0.PHIPTOC1	PHIPTOC1,50P/51P(1),3I>>>(1)
	LD0.DPHLPTOC1	DPHLPDOC1,67-1(1),3I>->(1)
	LD0.DPHHPTOC1	DPHHPDOC1,67-2(1),3I>>->(1)
	LD0.EFLPTOC1	EFLPTOC1,51N-1(1),Io>(1)
	LD0.EFHPTOC1	EFHPTOC1,51N-2(1),Io>>(1)
	LD0.DEFLPTOC1	DEFLPDEF1,67N-1(1),Io>->(1)
	LD0.DEFHPTOC1	DEFHPDEF1,67N-2(1),Io>>->(1)
	LD0.DPHLPTOC2	DPHLPDOC2,67-1(2),3I>->(2)
	LD0.DPHHPTOC2	DPHHPDOC2,67-2(2),3I>>->(2)
	LD0.EFLPTOC2	EFLPTOC2,51N-1(2),Io>(2)
	LD0.EFIPTOC1	EFIPTOC1,50N/51N(1),Io>>>(1)
	LD0.DEFLPTOC2	DEFLPDEF2,67N-1(2),Io>->(2)
	LD0.DEFLPTOC3	DEFLPDEF3,67N-1(3),Io>->(3)
	LD0.HAEFPTOC1	HAEFPTOC1,51NHA(1),Io>HA(1)
	LD0.NSPTOC1	NSPTOC1,46(1),I2>(1)
	LD0.NSPTOC2	NSPTOC2,46(2),I2>(2)
	LD0.PDNSPTOC1	PDNSPTOC1,46PD(1),I2/I1>(1)
	LD0.PH3HPTOC1	PH3HPTOC1,51P-2_3(1),3I_3>>(1)
	LD0.PH3HPTOC2	PH3HPTOC2,51P-2_3(2),3I_3>>(2)
	LD0.PH3LPTOC1	PH3LPTOC1,51P-1_3(1),3I_3>(1)
	LD0.PH3LPTOC2	PH3LPTOC2,51P-1_3(2),3I_3>(2)
	LD0.PH3IPTOC1	PH3IPTOC1,50P/51P_3(1),3I_3>>>(1)
	LD0.DPH3HPTOC1	DPH3HPDOC1,67-2_3(1),3I_3>>->(1)
	LD0.DPH3HPTOC2	DPH3HPDOC2,67-2_3(2),3I_3>>->(2)
	LD0.DPH3LPTOC1	DPH3LPDOC1,67-1_3(1),3I_3>->(1)
	LD0.DPH3LPTOC2	DPH3LPDOC2,67-1_3(2),3I_3>->(2)
	LD0.MNSPTOC1	MNSPTOC1,46M(1),I2>M(1)
	LD0.MNSPTOC2	MNSPTOC2,46M(2),I2>M(2)
	LD0.JAMPTOC1	JAMPTOC1,51LR(1),Ist>(1)
	LD0.PREVPTOC1	PREVPTOC1,46R(1),I2>>(1)
	LD0.MRE1PTOC1	MREFPTOC1,64R(1),Io>R(1)
	LD0.MRE2PTOC1	MREFPTOC1,64R(1),Io>R(1)
	LD0.PHLPTOC2	PHLPTOC2,51P-1(2),3I>(2)
	LD0.PHIPTOC2	PHIPTOC2,50P/51P(2),3I>>>(2)
	LD0.EFHPTOC2	EFHPTOC2,51N-2(2),Io>>(2)
	LD0.COL1PTOC1	COLPTOC1,51C/37(1),3I>3I<(1)

	LD0.COL2PTOC1	COLPTOC1,51C/37(1),3I>3I<(1)
	LD0.CUB1PTOC1	CUBPTOC1,51NC-1(1),dI>C(1)
	LD0.CUB2PTOC1	CUBPTOC1,51NC-1(1),dI>C(1)
	LD0.SRC1PTOC1	SRCPTOC1,55TD(1),TD>(1)
	LD0.SRC2PTOC1	SRCPTOC1,55TD(1),TD>(1)
PTOV	LD0.ROVPTOV1	ROVPTOV1,59G(1),Uo>(1)
	LD0.ROVPTOV2	ROVPTOV2,59G(2),Uo>(2)
	LD0.ROVPTOV3	ROVPTOV3,59G(3),Uo>(3)
	LD0.PHPTOV1	PHPTOV1,59(1),3U>(1)
	LD0.PHPTOV2	PHPTOV2,59(2),3U>(2)
	LD0.PHPTOV3	PHPTOV3,59(3),3U>(3)
	LD0.NSPTOV1	NSPTOV1,47O-(1),U2>(1)
	LD0.NSPTOV2	NSPTOV2,47O-(2),U2>(2)
	LD0.PHAPTOV1	PHAPTOV1,59_A(1),U_A>(1)
PTUV	LD0.PHPTUV1	PHPTUV1,27(1),3U<(1)
	LD0.PHPTUV2	PHPTUV2,27(2),3U<(2)
	LD0.PHPTUV3	PHPTUV3,27(3),3U<(3)
	LD0.PSPTUV1	PSPTUV1,47U+(1),U1<(1)
	LD0.PSPTUV2	PSPTUV2,47U+(2),U1<(2)
	LD0.PHAPTUV1	PHAPTUV1,27_A(1),U_A<(1)
	LD0.DQPTUV1	DQPTUV1,32Q,27(1),Q>->,3U<(1)
	LD0.DQPTUV2	DQPTUV2,32Q,27(2),Q>->,3U<(2)
	LD0.LVRTPTUV1	LVRTPTUV1,27RT(1),U<RT(1)< td>
	LD0.LVRTPTUV2	LVRTPTUV2,27RT(2),U<RT(2)< td>
	LD0.LVRTPTUV3	LVRTPTUV3,27RT(3),U<RT(3)< td>
PTRC	LD0.FRPTRC1	FRPFRQ1,81(1),f>/f<,df/dt(1)
	LD0.FRPTRC2	FRPFRQ2,81(2),f>/f<,df/dt(2)
	LD0.FRPTRC3	FRPFRQ3,81(3),f>/f<,df/dt(3)
	LD0.TRPPTRC1	TRPPTRC1,94/86(1),Master Trip(1)
	LD0.TRPPTRC2	TRPPTRC2,94/86(2),Master Trip(2)
	LD0.TRPPTRC3	TRPPTRC3,94/86(3),Master Trip(3)
	LD0.TRPPTRC4	TRPPTRC4,94/86(4),Master Trip(4)
	LD0.LEDPTRC1	Global conditioning
	LD0.FRPTRC4	FRPFRQ4,81(4),f>/f<,df/dt(4)
	LD0.FRPTRC5	FRPFRQ5,81(5),f>/f<,df/dt(5)
	LD0.FRPTRC6	FRPFRQ6,81(6),f>/f<,df/dt(6)
	LD0.LSHDPTRC1	LSHDPFRQ1,81LSH(1),UFLS/R(1)
	LD0.LSHDPTRC2	LSHDPFRQ2,81LSH(2),UFLS/R(2)
	LD0.LSHDPTRC3	LSHDPFRQ3,81LSH(3),UFLS/R(3)
	LD0.LSHDPTRC4	LSHDPFRQ4,81LSH(4),UFLS/R(4)
	LD0.LSHDPTRC5	LSHDPFRQ5,81LSH(5),UFLS/R(5)
	LD0.LSHDPTRC6	LSHDPFRQ6,(LSHDPFRQ6),UFLS/R(6)

	LD0.MPTRC1	MPDIF1,87M/G(1),3dI>M/G(1)
	LD0.TR2PTRC1	TR2PTDF1,87T(1),3dI>T(1)
	LD0.ARCPTRC11	ARCSARC1,50L/50NL(1),ARC(1)
	LD0.ARCPTRC21	ARCSARC2,50L/50NL(2),ARC(2)
	LD0.ARCPTRC31	ARCSARC3,50L/50NL(3),ARC(3)
PTOF	LD0.FRPTOF1	FRPFRQ1,81(1),f>/f<,df/dt(1)
	LD0.FRPTOF2	FRPFRQ2,81(2),f>/f<,df/dt(2)
	LD0.FRPTOF3	FRPFRQ3,81(3),f>/f<,df/dt(3)
	LD0.FRPTOF4	FRPFRQ4,81(4),f>/f<,df/dt(4)
	LD0.FRPTOF5	FRPFRQ5,81(5),f>/f<,df/dt(5)
	LD0.FRPTOF6	FRPFRQ6,81(6),f>/f<,df/dt(6)
	LD0.LSHDPTOF1	LSHDPFRQ1,81LSH(1),UFLS/R(1)
	LD0.LSHDPTOF2	LSHDPFRQ2,81LSH(2),UFLS/R(2)
	LD0.LSHDPTOF3	LSHDPFRQ3,81LSH(3),UFLS/R(3)
	LD0.LSHDPTOF4	LSHDPFRQ4,81LSH(4),UFLS/R(4)
	LD0.LSHDPTOF5	LSHDPFRQ5,81LSH(5),UFLS/R(5)
	LD0.LSHDPTOF6	LSHDPFRQ6,(LSHDPFRQ6),UFLS/R(6)
PTUF	LD0.FRPTUF1	FRPFRQ1,81(1),f>/f<,df/dt(1)
	LD0.FRPTUF2	FRPFRQ2,81(2),f>/f<,df/dt(2)
	LD0.FRPTUF3	FRPFRQ3,81(3),f>/f<,df/dt(3)
	LD0.FRPTUF4	FRPFRQ4,81(4),f>/f<,df/dt(4)
	LD0.FRPTUF5	FRPFRQ5,81(5),f>/f<,df/dt(5)
	LD0.FRPTUF6	FRPFRQ6,81(6),f>/f<,df/dt(6)
	LD0.LSHDPTUF1	LSHDPFRQ1,81LSH(1),UFLS/R(1)
	LD0.LSHDPTUF2	LSHDPFRQ2,81LSH(2),UFLS/R(2)
	LD0.LSHDPTUF3	LSHDPFRQ3,81LSH(3),UFLS/R(3)
	LD0.LSHDPTUF4	LSHDPFRQ4,81LSH(4),UFLS/R(4)
	LD0.LSHDPTUF5	LSHDPFRQ5,81LSH(5),UFLS/R(5)
	LD0.LSHDPTUF6	LSHDPFRQ6,(LSHDPFRQ6),UFLS/R(6)
PFRC	LD0.FRPFRC1	FRPFRQ1,81(1),f>/f<,df/dt(1)
	LD0.FRPFRC2	FRPFRQ2,81(2),f>/f<,df/dt(2)
	LD0.FRPFRC3	FRPFRQ3,81(3),f>/f<,df/dt(3)
	LD0.FRPFRC4	FRPFRQ4,81(4),f>/f<,df/dt(4)
	LD0.FRPFRC5	FRPFRQ5,81(5),f>/f<,df/dt(5)
	LD0.FRPFRC6	FRPFRQ6,81(6),f>/f<,df/dt(6)
	LD0.LSHDPFRC1	LSHDPFRQ1,81LSH(1),UFLS/R(1)
	LD0.LSHDPFRC2	LSHDPFRQ2,81LSH(2),UFLS/R(2)
	LD0.LSHDPFRC3	LSHDPFRQ3,81LSH(3),UFLS/R(3)
	LD0.LSHDPFRC4	LSHDPFRQ4,81LSH(4),UFLS/R(4)
	LD0.LSHDPFRC5	LSHDPFRQ5,81LSH(5),UFLS/R(5)
	LD0.LSHDPFRC6	LSHDPFRQ6,(LSHDPFRQ6),UFLS/R(6)
PSOF	LD0.CVPSOF1	CVPSOF1,SOTF/21/50(1),CVPSOF(1)

PVOC	LD0.PHPVOC1	PHPVOC1,51V(1),3I(U)>(1)
	LD0.PHPVOC2	PHPVOC2,51V(2),3I(U)>(2)
PADM	LD0.EFPADM1	EFPADM1,21YN(1),Yo>->(1)
	LD0.EFPADM2	EFPADM2,21YN(2),Yo>->(2)
	LD0.EFPADM3	EFPADM3,21YN(3),Yo>->(3)
PSDE	LD0.WPSDE1	WPWDE1,32N(1),Po>->(1)
	LD0.WPSDE2	WPWDE2,32N(2),Po>->(2)
	LD0.WPSDE3	WPWDE3,32N(3),Po>->(3)
	LD0.MFADPSDE1	MFADPSDE1,67YN(1),Io>->Y(1)
PTEF	LD0.INTRPTEF1	INTRPTEF1,67NIEF(1),Io>->IEF(1)
PTTR	LD0.T1PTTR1	T1PTTR1,49F(1),3Ith>F(1)
	LD0.MPTTR1	MPTTR1,49M(1),3Ith>M(1)
	LD0.T2PTTR1	T2PTTR1,49T/G/C(1),3Ith>T/G/C(1)
PTUC	LD0.PHPTUC1	PHPTUC1,37(1),3I<(1)
	LD0.LOFLPTUC1	LOFLPTUC1,37(1),3I<(1)
	LD0.LOFLPTUC2	LOFLPTUC2,37(2),3I<(2)
	LD0.PHPTUC2	PHPTUC2,37(2),3I<(2)
	LD0.COLPTUC1	COLPTOC1,51C/37(1),3I>3I<(1)
PHAR	LD0.INRPHAR1	INRPHAR1,68(1),3I2f>(1)
	LD0.TR2H2PHAR1	TR2PTDF1,87T(1),3dI>T(1)
	LD0.TR2H5PHAR1	TR2PTDF1,87T(1),3dI>T(1)
	LD0.LREFPHAR1	LREFPNDF1,87NL(1),dIoLo>(1)
	LD0.LREFPHAR2	LREFPNDF2,87NL(2),dIoLo>(2)
PDIF	LD0.HIAPDIF1	HIAPDIF1,87A(1),dHi_A>(1)
	LD0.HIBPDIF1	HIBPDIF1,87B(1),dHi_B>(1)
	LD0.HICPDIF1	HICPDIF1,87C(1),dHi_C>(1)
	LD0.MHPDIF1	MPDIF1,87M/G(1),3dI>M/G(1)
	LD0.MLPDIF1	MPDIF1,87M/G(1),3dI>M/G(1)
	LD0.MHZPDIF1	MHZPDIF1,87MH(1),3dIHi>M(1)
	LD0.HREFPDIF1	HREFPDIF1,87NH(1),dIoHi>(1)
	LD0.TR2LPDIF1	TR2PTDF1,87T(1),3dI>T(1)
	LD0.TR2HPDIF1	TR2PTDF1,87T(1),3dI>T(1)
	LD0.LREFPDIF1	LREFPNDF1,87NL(1),dIoLo>(1)
	LD0.LREFPDIF2	LREFPNDF2,87NL(2),dIoLo>(2)
	LD0.HREFPDIF2	HREFPDIF2,87NH(2),dIoHi>(2)
PMSS	LD0.STTPMSS1	STTPMSU1,49,66,48,51LR(1),Is2t n<(1)
PMRI	LD0.STTPMRI1	STTPMSU1,49,66,48,51LR(1),Is2t n<(1)
PVPH	LD0.OEPVPH1	OEPVPH1,24(1),U/f>(1)
	LD0.OEPVPH2	OEPVPH2,24(2),U/f>(2)
PDUP	LD0.DPPDUP1	DUPPDPR1,32U(1),P<(1)
	LD0.DPPDUP2	DUPPDPR2,32U(2),P<(2)
PDOP	LD0.DPPDOP1	DOPPDPR1,32R/32O(1),P>/Q>(1)

	LD0.DPPDOP2	DOPPDPR2,32R/32O(2),P>/Q>(2)
	LD0.DPPDOP3	DOPPDPR3,32R/32O(3),P>/Q>(3)
	LD0.DQPDOP1	DQPTUV1,32Q,27(1),Q>->,3U<(1)
	LD0.DQPDOP2	DQPTUV2,32Q,27(2),Q>->,3U<(2)
PHIZ	LD0.PHIZ1	PHIZ1,HIZ(1),HIF(1)
PIOC	LD0.ARCPIOC11	ARCSARC1,50L/50NL(1),ARC(1)
	LD0.ARCPIOC12	ARCSARC1,50L/50NL(1),ARC(1)
	LD0.ARCPIOC21	ARCSARC2,50L/50NL(2),ARC(2)
	LD0.ARCPIOC22	ARCSARC2,50L/50NL(2),ARC(2)
	LD0.ARCPIOC31	ARCSARC3,50L/50NL(3),ARC(3)
	LD0.ARCPIOC32	ARCSARC3,50L/50NL(3),ARC(3)
PPAM	LD0.VVSPPAM1	VVSPPAM1,78V(1),VS(1)
PDIS	LD0.UEXPDIS1	UEXPDIS1,40(1),X<(1)
	LD0.UEXPDIS2	UEXPDIS2,40(2),X<(2)
Q:Logical nodes for power quality events		
QVVR	LD0.PH1QVVR1	PHQVVR1,PQMV(1),PQMU(1)
	LD0.PH2QVVR1	PHQVVR1,PQMV(1),PQMU(1)
	LD0.PH3QVVR1	PHQVVR1,PQMV(1),PQMU(1)
QVUB	LD0.VSQVUB1	VSQVUB1,PQVUB(1),PQUUB(1)
R:Logical nodes for protection related functions		
RDIR	LD0.DPHLRDIR1	DPHLPDOC1,67-1(1),3I>->(1)
	LD0.DPHHRDIR1	DPHHPDOC1,67-2(1),3I>>->(1)
	LD0.DEFLRDIR1	DEFLPDEF1,67N-1(1),Io>->(1)
	LD0.DEFHRDIR1	DEFHPDEF1,67N-2(1),Io>>->(1)
	LD0.DPHLRDIR2	DPHLPDOC2,67-1(2),3I>->(2)
	LD0.DPHHRDIR2	DPHHPDOC2,67-2(2),3I>>->(2)
	LD0.DEFLRDIR2	DEFLPDEF2,67N-1(2),Io>->(2)
	LD0.DEFLRDIR3	DEFLPDEF3,67N-1(3),Io>->(3)
	LD0.WRDIR1	WPWDE1,32N(1),Po>->(1)
	LD0.WRDIR2	WPWDE2,32N(2),Po>->(2)
	LD0.WRDIR3	WPWDE3,32N(3),Po>->(3)
	LD0.MFADRDIR1	MFADRDIR1
	LD0.DPH3HRDIR1	DPH3HPDOC1,67-2_3(1),3I_3>>->(1)
	LD0.DPH3HRDIR2	DPH3HPDOC2,67-2_3(2),3I_3>>->(2)
	LD0.DPH3LRDIR1	DPH3LPDOC1,67-1_3(1),3I_3>->(1)
	LD0.DPH3LRDIR2	DPH3LPDOC2,67-1_3(2),3I_3>->(2)
RBRF	LD0.CCBRBRF1	CCBRBRF1,51BF/51NBF(1),3I>/Io>BF(1)
	LD0.CCBRBRF2	CCBRBRF2,51BF/51NBF(2),3I>/Io>BF(2)
	LD0.CCBRBRF3	CCBRBRF3,51BF/51NBF(3),3I>/Io>BF(3)
RLRC	LD0.LDPRLRC1	LDPRLRC1
RQRC	LD0.QVV1RQRC1	PHQVVR1,PQMV(1),PQMU(1)
	LD0.QVV2RQRC1	PHQVVR1,PQMV(1),PQMU(1)

	LD0.QVV3RQRC1	PHQVVR1,PQMV(1),PQMU(1)
	LD0.QVU1RQRC1	VSQVUB1,PQVUB(1),PQUUB(1)
	LD0.QVU2RQRC1	VSQVUB1,PQVUB(1),PQUUB(1)
	LD0.QVU3RQRC1	VSQVUB1,PQVUB(1),PQUUB(1)
RFRC	LD0.FLTRFRC1	FLTRFRC1,FaultRec1
	LD0.FLO1RFRC1	SCEFRFLO1,21FL(1),FLOC(1)
RREC	LD0.DARREC1	DARREC1,79(1),O->I(1)
	LD0.DARREC2	DARREC2,79(2),O->I(2)
RSYN	LD0.SECRSYN1	SECRSYN1,25(1),SYNC(1)
RCTF	LD0.CTSRCTF1	CTSRCTF1,MCS 3I,I2(1)
RFLO	LD0.SCEFRFLO1	SCEFRFLO1,21FL(1),FLOC(1)
RDRE	DR.RDRE1	Disturbance recorder
RBDR	DR.RBDR1	Binary ch 1
	DR.RBDR2	Binary ch 2
	DR.RBDR3	Binary ch 3
	DR.RBDR4	Binary ch 4
	DR.RBDR5	Binary ch 5
	DR.RBDR6	Binary ch 6
	DR.RBDR7	Binary ch 7
	DR.RBDR8	Binary ch 8
	DR.RBDR9	Binary ch 9
	DR.RBDR10	Binary ch 10
	DR.RBDR11	Binary ch 11
	DR.RBDR12	Binary ch 12
	DR.RBDR13	Binary ch 13
	DR.RBDR14	Binary ch 14
	DR.RBDR15	Binary ch 15
	DR.RBDR16	Binary ch 16
	DR.RBDR17	Binary ch 17
	DR.RBDR18	Binary ch 18
	DR.RBDR19	Binary ch 19
	DR.RBDR20	Binary ch 20
	DR.RBDR21	Binary ch 21
	DR.RBDR22	Binary ch 22
	DR.RBDR23	Binary ch 23
	DR.RBDR24	Binary ch 24
	DR.RBDR25	Binary ch 25
	DR.RBDR26	Binary ch 26
	DR.RBDR27	Binary ch 27
	DR.RBDR28	Binary ch 28
	DR.RBDR29	Binary ch 29
	DR.RBDR30	Binary ch 30

	DR.RBDR31	Binary ch 31
	DR.RBDR32	Binary ch 32
	DR.RBDR33	Binary ch 33
	DR.RBDR34	Binary ch 34
	DR.RBDR35	Binary ch 35
	DR.RBDR36	Binary ch 36
	DR.RBDR37	Binary ch 37
	DR.RBDR38	Binary ch 38
	DR.RBDR39	Binary ch 39
	DR.RBDR40	Binary ch 40
	DR.RBDR41	Binary ch 41
	DR.RBDR42	Binary ch 42
	DR.RBDR43	Binary ch 43
	DR.RBDR44	Binary ch 44
	DR.RBDR45	Binary ch 45
	DR.RBDR46	Binary ch 46
	DR.RBDR47	Binary ch 47
	DR.RBDR48	Binary ch 48
	DR.RBDR49	Binary ch 49
	DR.RBDR50	Binary ch 50
	DR.RBDR51	Binary ch 51
	DR.RBDR52	Binary ch 52
	DR.RBDR53	Binary ch 53
	DR.RBDR54	Binary ch 54
	DR.RBDR55	Binary ch 55
	DR.RBDR56	Binary ch 56
	DR.RBDR57	Binary ch 57
	DR.RBDR58	Binary ch 58
	DR.RBDR59	Binary ch 59
	DR.RBDR60	Binary ch 60
	DR.RBDR61	Binary ch 61
	DR.RBDR62	Binary ch 62
	DR.RBDR63	Binary ch 63
	DR.RBDR64	Binary ch 64
RADR	DR.RADR1	Analog ch 1
	DR.RADR2	Analog ch 2
	DR.RADR3	Analog ch 3
	DR.RADR4	Analog ch 4
	DR.RADR5	Analog ch 5
	DR.RADR6	Analog ch 6
	DR.RADR7	Analog ch 7
	DR.RADR8	Analog ch 8

	DR.RADR9	Analog ch 9
	DR.RADR10	Analog ch 10
	DR.RADR11	Analog ch 11
	DR.RADR12	Analog ch 12
S:Logical nodes for supervision and monitoring		
SCBR	LD0.SSCBR1	SSCBR1,CBCM(1)
	LD0.SPH1SCBR1	SPH1SCBR1
	LD0.SPH2SCBR1	SPH2SCBR1
	LD0.SPH3SCBR1	SPH3SCBR1
	LD0.SSCBR2	SSCBR2,CBCM(2)
	LD0.SPH1SCBR2	SPH1SCBR2
	LD0.SPH2SCBR2	SPH2SCBR2
	LD0.SPH3SCBR2	SPH3SCBR2
	LD0.SSCBR3	SSCBR3,CBCM(3)
	LD0.SPH1SCBR3	SPH1SCBR3
	LD0.SPH2SCBR3	SPH2SCBR3
	LD0.SPH3SCBR3	SPH3SCBR3
	LD0.TCSSCBR1	TCSSCBR1,TCM(1),TCS(1)
	LD0.TCSSCBR2	TCSSCBR2,TCM(2),TCS(2)
SIMG	LD0.SSIMG1	SSIMG1
	LD0.SSIMG2	SSIMG2
	LD0.SSIMG3	SSIMG3
SOPM	LD0.SSOPM1	SSOPM1
	LD0.SSOPM2	SSOPM2
	LD0.SSOPM3	SSOPM3
SPVC	LD0.CCSPVC1	CCSPVC1,MCS 3I(1)
	LD0.SEQSPVC1	SEQSPVC1,60(1),FUSEF(1)
	LD0.HZCCASPVC1	HZCCASPVC1,MCS I_A(1)
	LD0.HZCCBSPVC1	HZCCBSPVC1,MCS I_B(1)
	LD0.HZCCCSPVC1	HZCCCSPVC1,MCS I_C(1)
	LD0.CCSPVC2	CCSPVC2,MCS 3I(2)
SOPT	LD0.MDSOPT1	MDSOPT1,OPTM(1),OPTS(1)
	LD0.MDSOPT2	MDSOPT2,OPTM(2),OPTS(2)
SARC	LD0.ARCSARC11	ARCSARC1,50L/50NL(1),ARC(1)
	LD0.ARCSARC21	ARCSARC2,50L/50NL(2),ARC(2)
	LD0.ARCSARC31	ARCSARC3,50L/50NL(3),ARC(3)
T:Logical nodes for instrument transformers and sensors		
TCTR	LD0.IL1TCTR1	Current (3I,CT)
	LD0.IL2TCTR1	Current (3I,CT)
	LD0.IL3TCTR1	Current (3I,CT)
	LD0.RESTCTR1	Current (Io,CT)

	LD0.IL1TCTR2	Current (3IB,CT)
	LD0.IL2TCTR2	Current (3IB,CT)
	LD0.IL3TCTR2	Current (3IB,CT)
	LD0.RESTCTR2	Current (IoB,CT)
	MU01.I01ATCTR1	Std conformance
	MU01.I01BTCTR2	Std conformance
	MU01.I01CTCTR3	Std conformance
	MU01.I01NTCTR4	Std conformance
TVTR	LD0.UL1TVTR1	Voltage (3U,VT)
	LD0.UL2TVTR1	Voltage (3U,VT)
	LD0.UL3TVTR1	Voltage (3U,VT)
	LD0.RESTVTR1	Voltage (Uo,VT)
	LD0.UL1TVTR2	Voltage (3UB,VT)
	LD0.UL2TVTR2	Voltage (3UB,VT)
	LD0.UL3TVTR2	Voltage (3UB,VT)
	LD0.UL1TVTR3	Voltage (3UC,VT)
	LD0.UL2TVTR3	Voltage (3UC,VT)
	LD0.UL3TVTR3	Voltage (3UC,VT)
	MU01.U01ATVTR1	Std conformance
	MU01.U01BTVTR2	Std conformance
	MU01.U01CTVTR3	Std conformance
	MU01.U01NTVTR4	Std conformance
X:Logical Nodes for switchgear		
XCBR	CTRL.CBXCBR1	CBXCBR1,I<->O CB(1)
	CTRL.CBXCBR2	CBXCBR2,I<->O CB(2)
	CTRL.CBXCBR3	CBXCBR3,I<->O CB(3)
XSWI	CTRL.DCXSWI1	DCXSWI1,I<->O DCC(1)
	CTRL.DCXSWI2	DCXSWI2,I<->O DCC(2)
	CTRL.DCXSWI3	DCXSWI3,I<->O DCC(3)
	CTRL.DCXSWI4	DCXSWI4,I<->O DCC(4)
	CTRL.DCSXSWI1	DCSXSWI1,I<->O DC(1)
	CTRL.DCSXSWI2	DCSXSWI2,I<->O DC(2)
	CTRL.DCSXSWI3	DCSXSWI3,I<->O DC(3)
	CTRL.DCSXSWI4	DCSXSWI4,I<->O DC(4)
	CTRL.ESXSWI1	ESXSWI1,I<->O ESC(1)
	CTRL.ESXSWI2	ESXSWI2,I<->O ESC(2)
	CTRL.ESXSWI3	ESXSWI3,I<->O ESC(3)
	CTRL.ESSXSWI1	ESSXSWI1,I<->O ES(1)
	CTRL.ESSXSWI2	ESSXSWI2,I<->O ES(2)
	CTRL.ESSXSWI3	ESSXSWI3,I<->O ES(3)
Y:Logical nodes for power transformers		
YLTC	LD0.TPOSYLTC1	TPOSYLTC1,84M(1),TPOSM(1)

Z:Logical nodes for further power system equipment		
ZLIN	LD0.SCEF1ZLIN1	SCEFRFLO1,21FL(1),FLOC(1)
	LD0.SCEF2ZLIN1	SCEFRFLO1,21FL(1),FLOC(1)
	LD0.SCEF3ZLIN1	SCEFRFLO1,21FL(1),FLOC(1)

6 Logical Node Extensions

6.1 New Logical Nodes

6.1.1 LN: LINF1 Name: LINF (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only,ED1 only
Beh	ABBIED600_Rev2_INS_beh_ED1_e	Behaviour	E	REx620 MICS:2015>IEC 61850-7-4:2003
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	AB-BIED600_Rev5_LPL_LD0_LINF_ED1_e	Name plate	E	REx620 MICS:2015>IEC 61850-7-4:2003
BayNam	ABBIED600_Rev3_VSG_2_20_e	Name of the bay	E	REx620 MICS:2015>IEC 61850-7-4:2003
CfgNam	ABBIED600_Rev2_VSG_1_20_e	IED configura-tion name	E	REx620 MICS:2015>IEC 61850-7-4:2003
DevRev	ABBIED600_Rev2_VSG_1_64_e	Product version number	E	REx620 MICS:2015>IEC 61850-7-4:2003
CstNam	ABBIED600_Rev1_VSG_2_64_e	Name of the customer	E	REx620 MICS:2015>IEC 61850-7-4:2003
CstStNam	ABBIED600_Rev1_VSG_2_64_e	Name of the state	E	REx620 MICS:2015>IEC 61850-7-4:2003
CstStreNam	ABBIED600_Rev1_VSG_2_64_e	Name of the street	E	REx620 MICS:2015>IEC 61850-7-4:2003
CstHouNum	ABBIED600_Rev1_VSG_2_64_e	Number of the house	E	REx620 MICS:2015>IEC 61850-7-4:2003
CstZip	ABBIED600_Rev3_VSG_2_20_e	ZIP/Postal code	E	REx620 MICS:2015>IEC 61850-7-4:2003
CstCityNam	ABBIED600_Rev1_VSG_2_64_e	City/Province	E	REx620 MICS:2015>IEC 61850-7-4:2003
CstCntyNam	ABBIED600_Rev1_VSG_2_64_e	Name of the country	E	REx620 MICS:2015>IEC 61850-7-4:2003
CardNam	AB-BIED600_Rev8_DPL_eeprom_2_ED1_e	Card infor-mation	E	REx620 MICS:2015>IEC 61850-7-4:2003
TestStaId	ABBIED600_Rev1_LPL_VSS_dU_20_e	Testing	E	REx620 MICS:2015>IEC 61850-7-4:2003
HwId	ABBIED600_Rev1_LPL_VSS_1_20_e	HW module	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.2 LN: LDEV1 Name: LDEV (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only,ED1 only
Beh	ABBIED600_Rev2_INS_beh_ED1_e	Behaviour	E	REx620 MICS:2015>IEC 61850-7-4:2003
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	AB-BIED600_Rev2_LPL_LD0_LDEV_ED1_e	Name plate	E	REx620 MICS:2015>IEC 61850-7-4:2003
IPAddr	ABBIED600_Rev3_VSG_2_20_e	IP address for rear port(s)	E	REx620 MICS:2015>IEC 61850-7-4:2003
IPAddrSub-Ntw	ABBIED600_Rev3_VSG_2_20_e	Subnet mask for rear port(s)	E	REx620 MICS:2015>IEC 61850-7-4:2003
IPAddrGtw	ABBIED600_Rev3_VSG_2_20_e	Default gate-way for rear port(s)	E	REx620 MICS:2015>IEC 61850-7-4:2003
IPAddrFrt	ABBIED600_Rev2_VSG_1_20_e	IP address for front port (fixed)	E	REx620 MICS:2015>IEC 61850-7-4:2003
Mac1	ABBIED600_Rev2_VSG_1_20_e	Mac address for rear port(s)	E	REx620 MICS:2015>IEC 61850-7-4:2003
Mac2	ABBIED600_Rev2_VSG_1_20_e	Mac address for front port	E	REx620 MICS:2015>IEC 61850-7-4:2003
SwrNum	ABBIED600_Rev1_LPL_VSS_1_20	SW		
OrdrNum	ABBIED600_Rev1_LPL_VSS_1_20	Order number		
WrmStrDet	ABBIED600_Rev1_SPS	Warm start de-tected		
WacTrgDet	ABBIED600_Rev1_SPS	Watchdog re-set detected		
DevWrn	ABBIED600_Rev7_INS_warning_ED1	Warning		
DevFail	ABBIED600_Rev11_INS_error_ED1	Internal Fault		
StLstOv	ABBIED600_Rev1_SPS_e	Status over-flow	E	REx620 MICS:2015>IEC 61850-7-4:2003
MeasLstOv	ABBIED600_Rev1_SPS_e	Meas overflow	E	REx620 MICS:2015>IEC 61850-7-4:2003
ChgAckCnt	ABBIED600_Rev1_INS_retain_e	Number of composition changes	E	REx620 MICS:2015>IEC 61850-7-4:2003
ChgFlg	ABBIED600_Rev2_INC_control_int_e	Composition has changed	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-se-curity
Wrm-StrCmd	ABBIED600_Rev2_SPC_control_e	Reset device	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-se-curity
FailTest	ABBIED600_Rev2_SPC_control_e	Internal fault test	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-se-curity

BlkMod	ABBIED600_Rev2_ENG_SP_BlkMod_e	Global blocking mode selection	E	REx620 MICS:2015>IEC 61850-7-4:2003
HzSetSel	ABBIED600_Rev2_ENG_SP_HzSet_e	Rated frequency	E	REx620 MICS:2015>IEC 61850-7-4:2003
PhRotSet	ABBIED600_Rev2_ENG_SP_PhRotSet_e	Phase rotation order	E	REx620 MICS:2015>IEC 61850-7-4:2003
DiVThres	ABBIED600_Rev1_ING_SP_e	Threshold voltage	E	REx620 MICS:2015>IEC 61850-7-4:2003
DiOscThres	ABBIED600_Rev1_ING_SP_1_e	Input osc. level	E	REx620 MICS:2015>IEC 61850-7-4:2003
DiOscHys	ABBIED600_Rev1_ING_SP_1_e	Input osc. hyst	E	REx620 MICS:2015>IEC 61850-7-4:2003
SetSeld	ABBIED600_Rev1_SPS_e	Settings reservation	E	REx620 MICS:2015>IEC 61850-7-4:2003
SetChg	ABBIED600_Rev1_SPS_e	Settings change	E	REx620 MICS:2015>IEC 61850-7-4:2003
PhOrdMod	ABBIED600_Rev2_ENG_SP_PhOrdSet_e	Phase connection order	E	REx620 MICS:2015>IEC 61850-7-4:2003,order code dependent
ACrvSatPnt	ABBIED600_Rev1_ASG_SP_f_e	Overcurrent IDMT saturation point	E	REx620 MICS:2015>IEC 61850-7-4:2003
ADmdAvMod	ABBIED600_Rev2_ENG_SP_DmdAvMod_e	A demand Av mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
MtrDmdItrv	ABBIED600_Rev2_ENG_SP_dmdItrv_e	Demand interval	E	REx620 MICS:2015>IEC 61850-7-4:2003
HzAdpEna	ABBIED600_Rev1_SPG_SP_e	Frequency adaptivity	E	REx620 MICS:2015>IEC 61850-7-4:2003
ModRemCtl	ABBIED600_Rev2_ENG_SP_ModRemCtrl_e	Authority for remote activation of test mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
LangSel	ABBIED600_Rev5_ENG_SP_Languages_e	Language selection	E	REx620 MICS:2015>IEC 61850-7-4:2003
Contr	ABBIED600_Rev1_ING_SP_1_e	Contrast selection	E	REx620 MICS:2015>IEC 61850-7-4:2003
NumFrm	ABBIED600_Rev1_ING_SP_1_e	NUMf	E	REx620 MICS:2015>IEC 61850-7-4:2003
LgtLivTm	ABBIED600_Rev1_ING_SP_1_e	Backligth timeout	E	REx620 MICS:2015>IEC 61850-7-4:2003
TmFrm	ABBIED600_Rev2_ENG_SP_FormatTime_e	Time format	E	REx620 MICS:2015>IEC 61850-7-4:2003
DateFrm	ABBIED600_Rev2_ENG_SP_FormatDate_e	Date format	E	REx620 MICS:2015>IEC 61850-7-4:2003
NamConvn	ABBIED600_Rev2_ENG_SP_NamingConvention_e	FB naming convention	E	REx620 MICS:2015>IEC 61850-7-4:2003
DftVw	ABBIED600_Rev4_ENG_SP_DefaultView_e	Default view	E	REx620 MICS:2015>IEC 61850-7-4:2003

AcsMod	ABBIED600_Rev2_ENG_SP_WhmiMod_e	Web HMI mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
ConnEx-pTm	ABBIED600_Rev1_ING_SP_1_e	Web HMI timeout	E	REx620 MICS:2015>IEC 61850-7-4:2003
EvtLstClr	ABBIED600_Rev2_SPC_control_e	Event clear	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
SLDSym-Frm	ABBIED600_Rev2_ENG_SP_SLDSymbol-Format_e	SLD symbol format	E	REx620 MICS:2015>IEC 61850-7-4:2003
ScrDlTms	ABBIED600_Rev1_ING_SP_1_e	Autoscroll delay	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClsDlMod	ABBIED600_Rev2_ENG_SP_InUse_e	CB close delay mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClsDlTms	ABBIED600_Rev1_ING_SP_1_e	CB close delay	E	REx620 MICS:2015>IEC 61850-7-4:2003
SetVsb	ABBIED600_Rev2_ENG_SP_SetVsb_e	Setting visibility	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.3 LN: GSAL1 Name: GSAL (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only,ED1 only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
OpCntRs	ABBIED600_Rev1_INC_simple_int	Resetable Security Violations counter		status-only
NumCntRs	ABBIED600_Rev1_INS	Number of counter resets		
AuthFail	ABBIED600_Rev1_SEC	Authorization failures detected		
AcsCtlFail	ABBIED600_Rev1_SEC	Access control failures detected		
SvcViol	ABBIED600_Rev1_SEC	Service privilege violations		
Ina	ABBIED600_Rev1_SEC	Inactive associations		
AuthRem	ABBIED600_Rev3_SPG_SP_authority_ED1_e	Remote authorization	E	REx620 MICS:2015>IEC 61850-7-4:2003
AuthAcsVw	ABBIED600_Rev10_INS_AuthAcs_ED1_e	Viewer access	E	REx620 MICS:2015>IEC 61850-7-4:2003
AuthAcsOpr	ABBIED600_Rev10_INS_AuthAcs_ED1_e	Operator access	E	REx620 MICS:2015>IEC 61850-7-4:2003
AuthAcsEng	ABBIED600_Rev10_INS_AuthAcs_ED1_e	Engineer access	E	REx620 MICS:2015>IEC 61850-7-4:2003
AuthAcsAdm	ABBIED600_Rev10_INS_AuthAcs_ED1_e	Administrator access	E	REx620 MICS:2015>IEC 61850-7-4:2003

AuthAcsLev	ABBIED600_Rev2_ENG_SP_AuthAcsLev_e	Logging level	E	REx620 MICS:2015>IEC 61850-7-4:2003
RemUpdEna	ABBIED600_Rev1_SPG_SP_AccessAdmW_e	Remote Update Enable	E	REx620 MICS:2015>IEC 61850-7-4:2003
AuthRemAdm	ABBIED600_Rev1_VSG_2_64_e	Remote authorization (administrator)	E	REx620 MICS:2015>IEC 61850-7-4:2003
AuthRemEng	ABBIED600_Rev1_VSG_2_64_e	Remote authorization (engineer)	E	REx620 MICS:2015>IEC 61850-7-4:2003
AuthRemOpr	ABBIED600_Rev1_VSG_2_64_e	Remote authorization (operator)	E	REx620 MICS:2015>IEC 61850-7-4:2003
AuthRemVw	ABBIED600_Rev1_VSG_2_64_e	Remote authorization (viewer)	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.4 LN: GSELPRT1 Name: LPRT (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security,ED1 only
Beh	ABBIED600_Rev2_INS_beh_ED1_e	Behaviour	E	REx620 MICS:2015>IEC 61850-7-4:2003
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_lnNs_1_e	Name plate	E	REx620 MICS:2015>IEC 61850-7-4:2003
FrRxCnt	ABBIED600_Rev1_INS	Received msgs		
FrTxCnt	ABBIED600_Rev1_INS	Transmitted Messages		
RxStCnt	ABBIED600_Rev1_INS	Received State Changes		
RxSeqCnt	ABBIED600_Rev1_INS	Received Sequence Number		
RxTestCnt	ABBIED600_Rev1_INS	Received frames with Test bit		
StWrnCnt	ABBIED600_Rev1_INS	State warnings		
SeqWrnCnt	ABBIED600_Rev1_INS	Sequence warnings		
RxTmOutCnt	ABBIED600_Rev1_INS	Receiver Timeouts		
ConfErrCnt	ABBIED600_Rev1_INS	Received ConfRev mismatches		
NdsComCnt	ABBIED600_Rev1_INS	Received frames with NeedsCommissioning bit		
DSErrCnt	ABBIED600_Rev1_INS	Errors in received dataset		
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	REx620 MICS:2015>IEC 61850-7-4:2003
CntRs	ABBIED600_Rev2_SPC_control_e	Goose counters reset	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-

				only,direct-with-normal-security

6.1.5 LN: MMSLPRT1 Name: LPRT (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only,ED1 only
Beh	ABBIED600_Rev2_INS_beh_ED1_e	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev3_LPL_mms_e	Name plate		
SucConn	ABBIED600_Rev1_INS	Successful Connections		
FailConn	ABBIED600_Rev1_INS	Failed Connections		
ConcCnt	ABBIED600_Rev1_INS	Concludes		
TxAbtCnt	ABBIED600_Rev1_INS	Sent Aborts		
RxAbtCnt	ABBIED600_Rev1_INS	Received Aborts		
TxRejCnt	ABBIED600_Rev1_INS	Sent Rejects		
RxRqCnt	ABBIED600_Rev1_INS	Received Request		
FailRqCnt	ABBIED600_Rev1_INS	Failed Requests		
SucReaCnt	ABBIED600_Rev1_INS	Successful Reads		
FailReaCnt	ABBIED600_Rev1_INS	Failed Reads		
SucWrCnt	ABBIED600_Rev1_INS	Successful Writes		
FailWrCnt	ABBIED600_Rev1_INS	Failed Writes		
InfRpCnt	ABBIED600_Rev1_INS	Information Reports		
ActConnCnt	ABBIED600_Rev1_INS	Active Connections		
UnitMod	ABBIED600_Rev2_ENG_SP_UnitMod	Unit mode		
SetCnfMod	ABBIED600_Rev2_SPC_technical	Setting group editing mode		status-only,direct-with-normal-security
CntRs	ABBIED600_Rev2_SPC_control	Communication status		status-only,direct-with-normal-security
StdConf1	ABBIED600_Rev1_SPG_SP	Standard conformance		
StdConf2	ABBIED600_Rev1_SPG_SP	Standard conformance		
ChLiv	ABBIED600_Rev1_SPS_e	MMS Communication status	E	REx620 MICS:2015>IEC 61850-7-4:2003
CliIP1	ABBIED600_Rev1_LPL_VSS_1_20	Client 1 IP address		
CliIP2	ABBIED600_Rev1_LPL_VSS_1_20	Client 2 IP address		

CliIP3	ABBIED600_Rev1_LPL_VSS_1_20	Client 3 IP address		
CliIP4	ABBIED600_Rev1_LPL_VSS_1_20	Client 4 IP address		
CliIP5	ABBIED600_Rev1_LPL_VSS_1_20	Client 5 IP address		

6.1.6 LN: GNRLLTMM1 Name: LTMM (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only,ED1 only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev5_LPL_tms_ED1	Name plate		ED1 only
TmAcc	ABBIED600_Rev1_INS	Number of significant bits in the Fraction Of Second in the time accuracy part of the time stamp.		
TmSrc	ABBIED600_Rev1_LPL_VSS_1_64	Current time source		
TmSyn	ABBIED600_Rev1_INS_TmSyn_ED1	Time synchronized according to IEC 61850-9-2		order code dependent
TmChSt1	ABBIED600_Rev1_SPS	Time channel status (up/down)		
TmSrcSel1	ABBIED600_Rev6_ENG_SP_SyncSrc_e	Time source setting (“1588” in case the time source is a IEEE 1588 source or dotted IP-address)	E	REx620 MICS:2015>IEC 61850-7-4:2003
TmSrcSt	ABBIED600_Rev4_INS_TmSrc_ED1_e	Current time source	E	REx620 MICS:2015>IEC 61850-7-4:2003
DomId	ABBIED600_Rev1_ING_SP_1_e	The domain is identified by an integer, the domainNumber, in the range of 0 to 255.	E	REx620 MICS:2015>IEC 61850-7-4:2003,order code dependent
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	REx620 MICS:2015>IEC 61850-7-4:2003
Wrn	ABBIED600_Rev1_SPS_e	Warning	E	REx620 MICS:2015>IEC 61850-7-4:2003
PTPTmSrc	ABBIED600_Rev2_INS_PTPTmSrc_ED1_e	GrandMaster timeSource enum according to PTPv2	E	REx620 MICS:2015>IEC 61850-7-4:2003,order code dependent
PTPClkAcc	ABBIED600_Rev2_INS_PTPClkAcc_ED1_e	Grandmaster clockAccuracy enum according to PTPv2	E	REx620 MICS:2015>IEC 61850-7-4:2003,order code dependent

LocClkAcc	ABBIED600_Rev1_INS_e	Local clock accuracy (master + IED synch accuracy)[us]	E	REx620 MICS:2015>IEC 61850-7-4:2003,order code dependent
MaxDevAcc	ABBIED600_Rev1_INS_e	Maximum deviation of the Local synch accuracy [us]	E	REx620 MICS:2015>IEC 61850-7-4:2003,order code dependent
PTPPrio1	ABBIED600_Rev1_ING_SP_1_e	PTP priority 1, in the range of 0 to 255.	E	REx620 MICS:2015>IEC 61850-7-4:2003,order code dependent
PTPPrio2	ABBIED600_Rev1_ING_SP_1_e	PTP priority 2, in the range of 0 to 255.	E	REx620 MICS:2015>IEC 61850-7-4:2003,order code dependent
MstrId	ABBIED600_Rev2_VSG_1_20_e	Grandmaster Identity octet string according to PTPv2	E	REx620 MICS:2015>IEC 61850-7-4:2003,order code dependent
IPAd-drSNTP1	ABBIED600_Rev3_VSG_2_20_e	IP address for SNTP primary server	E	REx620 MICS:2015>IEC 61850-7-4:2003
IPAd-drSNTP2	ABBIED600_Rev3_VSG_2_20_e	IP address for SNTP secondary server	E	REx620 MICS:2015>IEC 61850-7-4:2003
PTPAnnc-Mod	ABBIED600_Rev1_ENG_SP_PTPAnnc-Mod_e	PTP Announce Mode	E	REx620 MICS:2015>IEC 61850-7-4:2003,order code dependent

6.1.7 LN: GNRLLTIM1 Name: LTIM (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_INC_Mod_On_ED1	Mode		status-only,ED1 only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev5_LPL_LD0_LTIM	Name plate		ED1 only
TmDT	ABBIED600_Rev1_SPS	Indicating if DST is in effect		
TmOfsTmm	ABBIED600_Rev1_ING_SP_1	Offset of local time from UTC in minutes		
TmUseDT	ABBIED600_Rev1_SPG_SP	DST in use setting		
TmChgDT	ABBIED600_Rev2_TSG_SP_setCal	Local time of next change to daylight saving time		
TmChgST	ABBIED600_Rev2_TSG_SP_setCal	Local time of next change to standard time		

TmSys	ABBIED600_Rev3_VSG_2_20_e	System time	E	REx620 MICS:2015>IEC 61850-7-4:2003
DateSys	ABBIED600_Rev3_VSG_2_20_e	System date	E	REx620 MICS:2015>IEC 61850-7-4:2003
TmOfsDT	ABBIED600_Rev1_ING_SP_1_e	Daylight saving time offset	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.8 LN: DPHLRDIR1 Name: RDIR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Dir	ABBIED600_Rev1_ACD_threephase	Direction		
ChrAng	ABBIED600_Rev3_ASG_SG_i_ED1	Characteristic angle		
MinFwdAng	ABBIED600_Rev3_ASG_SG_i_ED1	Minimum phase angle in forward direction		
MinRvAng	ABBIED600_Rev3_ASG_SG_i_ED1	Minimum phase angle in reverse direction		
MaxFwdAng	ABBIED600_Rev3_ASG_SG_i_ED1	Maximum phase angle in forward direction		
MaxRvAng	ABBIED600_Rev3_ASG_SG_i_ED1	Maximum phase angle in reverse direction		
BlkValA	ABBIED600_Rev3_ASG_SP_i	Min operate current		
BlkValV	ABBIED600_Rev3_ASG_SP_i	Min operate voltage		
PolQty	ABBIED600_Rev3_ENG_SG_PolQty_ED1	Polarising Quantity		
VMemTmms	ABBIED600_Rev1_ING_SG_ED1_e	Voltage memory time	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpChrAngPhsA	ABBIED600_Rev3_MV_simple_i_e	Calc angle difference phase A	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpChrAngPhsB	ABBIED600_Rev3_MV_simple_i_e	Calc angle difference phase B	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpChrAngPhsC	ABBIED600_Rev3_MV_simple_i_e	Calc angle difference phase C	E	REx620 MICS:2015>IEC 61850-7-4:2003
VMemUsedSt	ABBIED600_Rev1_SPS_e	Voltage memory in use status	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.9 LN: DPHHRDIR1 Name: RDIR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Dir	ABBIED600_Rev1_ACD_threephase	DIR		
ChrAng	ABBIED600_Rev3_ASG_SG_i_ED1	Characteristic angle		
MinFwdAng	ABBIED600_Rev3_ASG_SG_i_ED1	Minimum phase angle in forward direction		
MinRvAng	ABBIED600_Rev3_ASG_SG_i_ED1	Minimum phase angle in reverse direction		
MaxFwdAng	ABBIED600_Rev3_ASG_SG_i_ED1	Maximum phase angle in forward direction		
MaxRvAng	ABBIED600_Rev3_ASG_SG_i_ED1	Maximum phase angle in reverse direction		
BlkValA	ABBIED600_Rev3_ASG_SP_i	Min operate current		
BlkValV	ABBIED600_Rev3_ASG_SP_i	Min operate voltage		
PolQty	ABBIED600_Rev3_ENG_SG_PolQty_ED1	Polarizing quantity		
VMemTmms	ABBIED600_Rev1_ING_SG_ED1_e	Voltage memory time	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpChrAngPhsA	ABBIED600_Rev3_MV_simple_i_e	Calc angle difference phase A	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpChrAngPhsB	ABBIED600_Rev3_MV_simple_i_e	Calc angle difference phase B	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpChrAngPhsC	ABBIED600_Rev3_MV_simple_i_e	Calc angle difference phase C	E	REx620 MICS:2015>IEC 61850-7-4:2003
VMemUsedSt	ABBIED600_Rev1_SPS_e	Voltage memory in use status	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.10 LN: DEFLRDIR1 Name: RDIR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only

Dir	ABBIED600_Rev1_ACD_simple	Direction		
ChrAng	ABBIED600_Rev3_ASG_SG_i_ED1	Characteristic angle		
MinFwdAng	ABBIED600_Rev3_ASG_SG_i_ED1	Minimum phase angle in forward direction		
MinRvAng	ABBIED600_Rev3_ASG_SG_i_ED1	Minimum phase angle in reverse direction		
MaxFwdAng	ABBIED600_Rev3_ASG_SG_i_ED1	Maximum phase angle in forward direction		
MaxRvAng	ABBIED600_Rev3_ASG_SG_i_ED1	Maximum phase angle in reverse direction		
BlkValA	ABBIED600_Rev3_ASG_SP_i	Minimum operating current		
BlkValV	ABBIED600_Rev3_ASG_SP_i	Minimum operating voltage		
PolQty	ABBIED600_Rev1_ENG_SP_PolQty	Polarizing quantity		
InRcaCtl	ABBIED600_Rev1_SPS_e	Relay characteristic angle control	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpModEF	ABBIED600_Rev2_ENG_SG_OpModEF_ED1_e	Operation criteria	E	REx620 MICS:2015>IEC 61850-7-4:2003
CorAng	ABBIED600_Rev3_ASG_SP_i_e	Correction angle	E	REx620 MICS:2015>IEC 61850-7-4:2003
RevPol	ABBIED600_Rev1_SPG_SP_e	Rotate polarizing quantity	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpAEF	ABBIED600_Rev3_MV_simple_i_e	Operating current for EF protection	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpPolAng	ABBIED600_Rev3_MV_simple_i_e	Angle between operating and polarizing quantity	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpChrAng	ABBIED600_Rev3_MV_simple_i_e	Angle between operating angle and characteristic angle	E	REx620 MICS:2015>IEC 61850-7-4:2003
VResSigSel	ABBIED600_Rev2_ENG_SP_VResSigSel_e	Selection for used Uo signal	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.11 LN: DEFHRDIR1 Name: RDIR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only

NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Dir	ABBIED600_Rev1_ACD_simple	Direction		
ChrAng	ABBIED600_Rev3_ASG_SG_i_ED1	Characteristic angle		
MinFwdAng	ABBIED600_Rev3_ASG_SG_i_ED1	Minimum phase angle in forward direction		
MinRvAng	ABBIED600_Rev3_ASG_SG_i_ED1	Minimum phase angle in reverse direction		
MaxFwdAng	ABBIED600_Rev3_ASG_SG_i_ED1	Maximum phase angle in forward direction		
MaxRvAng	ABBIED600_Rev3_ASG_SG_i_ED1	Maximum phase angle in reverse direction		
BlkValA	ABBIED600_Rev3_ASG_SP_i	Minimum operating current		
BlkValV	ABBIED600_Rev3_ASG_SP_i	Minimum operating voltage		
PolQty	ABBIED600_Rev1_ENG_SP_PolQty	Polarizing quantity		
InRcaCtl	ABBIED600_Rev1_SPS_e	Relay characteristic angle control	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpModEF	ABBIED600_Rev2_ENG_SG_OpModEF_ED1_e	Operation criteria	E	REx620 MICS:2015>IEC 61850-7-4:2003
CorAng	ABBIED600_Rev3_ASG_SP_i_e	Correction angle	E	REx620 MICS:2015>IEC 61850-7-4:2003
RevPol	ABBIED600_Rev1_SPG_SP_e	Rotate polarizing quantity	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpAEF	ABBIED600_Rev3_MV_simple_i_e	Operating current for EF protection	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpPolAng	ABBIED600_Rev3_MV_simple_i_e	Angle between operating and polarizing quantity	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpChrAng	ABBIED600_Rev3_MV_simple_i_e	Angle between operating angle and characteristic angle	E	REx620 MICS:2015>IEC 61850-7-4:2003
VResSigSel	ABBIED600_Rev2_ENG_SP_VResSigSel_e	Selection for used Uo signal	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.12 LN: CVPSOF1 Name: PSOF (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1_e	Mode	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-

				only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1_e	Behaviour	E	REx620 MICS:2015>IEC 61850-7-4:2003
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_lnNs_1_e	Name plate	E	REx620 MICS:2015>IEC 61850-7-4:2003
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
InCBClsCmd	ABBIED600_Rev1_SPS_simple	External enabling of SOTF by CB close command		
InStr	ABBIED600_Rev1_SPS_simple	Start from function to be accelerated by SOTF		
InDlStr	ABBIED600_Rev1_SPS_simple	Start from function to be accelerated with delay by SOTF		
TrFltSt	ABBIED600_Rev1_SPS_simple	Trip fault state		
DeaLinValA	ABBIED600_Rev3_ASG_SP_i	Dead line value, current. Used also in auto activation logic		
DeaLinVal	ABBIED600_Rev3_ASG_SP_i_e	Dead line value, voltage. Used also in auto activation logic	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpModSOF	ABBIED600_Rev2_ENG_SP_OpModSOF	Mode of operation of SOTF Function		
AVDetTmms	ABBIED600_Rev1_ING_SP	Time delay for voltage and current based detection		
AutoIniMod	ABBIED600_Rev3_ENG_SP_AutoIniMod	Automatic switch onto fault initialization		
RsDlTmms	ABBIED600_Rev1_ING_SP_e	SOTF detection period after initialization	E	REx620 MICS:2015>IEC 61850-7-4:2003
DeaLinTmms	ABBIED600_Rev1_ING_SP	Delay time for activation of dead line detection		
OpDlTmms	ABBIED600_Rev1_ING_SP_e	Delay for the delayed start input	E	REx620 MICS:2015>IEC 61850-7-4:2003
TestPro	ABBIED600_Rev2_INC_TestPro_ED1	Test control for outputs		status-only,direct-with-normal-security

6.1.13 LN: SSCBR1 Name: SCBR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mod		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		
OpCntAlm	ABBIED600_Rev1_SPS	Number of CB operations exceeds alarm limit		
OpTmOpn	ABBIED600_Rev3_MV_simple_i	Travel time of the CB during opening operation		
OpTmCls	ABBIED600_Rev3_MV_simple_i	Travel time of the CB during closing operation		
OpTmAlm	ABBIED600_Rev1_SPS_simple	Switch operating time exceeded		
OpAlmNum	ABBIED600_Rev1_ING_SP_1	Setting of alarm for number of CB operations.		
OpCntRs	ABBIED600_Rev1_INC_simple_int	Number of CB operation cycle		status-only
InPosOpn	ABBIED600_Rev1_SPS_e	POSOPEN	E	REx620 MICS:2015>IEC 61850-7-4:2003
InPosCls	ABBIED600_Rev1_SPS_e	POSCLOSE	E	REx620 MICS:2015>IEC 61850-7-4:2003
ColCls	ABBIED600_Rev1_SPS_simple_e	Close command status	E	REx620 MICS:2015>IEC 61850-7-4:2003
PosOpn	ABBIED600_Rev1_SPS_e	CB position is open	E	REx620 MICS:2015>IEC 61850-7-4:2003
PosIvd	ABBIED600_Rev1_SPS_e	INVALIDPOS	E	REx620 MICS:2015>IEC 61850-7-4:2003
PosCls	ABBIED600_Rev1_SPS_e	CB position is closed	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpnAlm	ABBIED600_Rev1_SPS_e	CB open travel time exceeded set value	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClsAlm	ABBIED600_Rev1_SPS_e	CB close travel time exceeded set value	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpCntLO	ABBIED600_Rev1_SPS_e	Number of CB operations exceeds lockout limit	E	REx620 MICS:2015>IEC 61850-7-4:2003

LonTmAlm	ABBIED600_Rev1_SPS_e	CB 'not operated for long time' alarm	E	REx620 MICS:2015>IEC 61850-7-4:2003
APwrAlm	ABBIED600_Rev1_SPS_e	Accumulated currents power (Iyt),exceeded alarm limit	E	REx620 MICS:2015>IEC 61850-7-4:2003
APwrLO	ABBIED600_Rev1_SPS_e	Accumulated currents power (Iyt),exceeded lockout limit	E	REx620 MICS:2015>IEC 61850-7-4:2003
RmnNumOpAlm	ABBIED600_Rev1_SPS_e	Remaining life of CB exceeded alarm limit	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpnAlmTmms	ABBIED600_Rev1_ING_SP_1_e	Setting of alarm level for open travel time in ms	E	REx620 MICS:2015>IEC 61850-7-4:2003
CorOpnTmms	ABBIED600_Rev1_ING_SP_1_e	Correction factor for open travel time in ms	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClsAlmTmms	ABBIED600_Rev1_ING_SP_1_e	Setting of alarm level for close travel time in ms	E	REx620 MICS:2015>IEC 61850-7-4:2003
CorClsTmms	ABBIED600_Rev1_ING_SP_1_e	Correction factor for CB close travel time in ms	E	REx620 MICS:2015>IEC 61850-7-4:2003
CorDifTmms	ABBIED600_Rev1_ING_SP_1_e	Corr. factor for time dif in aux. and main contacts open time	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpLONum	ABBIED600_Rev1_ING_SP_1_e	Setting to block operation when number of operation is more.	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpNumRtg	ABBIED600_Rev1_ING_SP_1_e	Number of operations possible at rated current	E	REx620 MICS:2015>IEC 61850-7-4:2003
NumOpAlmLev	ABBIED600_Rev1_ING_SP_1_e	Alarm level for CB remaining life	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpNumFlt	ABBIED600_Rev1_ING_SP_1_e	Number of operations possible at rated fault current	E	REx620 MICS:2015>IEC 61850-7-4:2003
CntIniVal	ABBIED600_Rev1_ING_SP_1_e	The operation numbers counter initialization value	E	REx620 MICS:2015>IEC 61850-7-4:2003
InaAlmTmd	ABBIED600_Rev1_ING_SP_1_e	Alarm limit value of the inactive days counter	E	REx620 MICS:2015>IEC 61850-7-4:2003
IniInaTmd	ABBIED600_Rev1_ING_SP_1_e	Initial value of the inactive days counter	E	REx620 MICS:2015>IEC 61850-7-4:2003

InaAlmTmh	ABBIED600_Rev1_ING_SP_1_e	Alarm time of the inactive days counter in hours	E	REx620 MICS:2015>IEC 61850-7-4:2003
InaTmdCnt	ABBIED600_Rev1_INS_e	The number of days CB has been inactive	E	REx620 MICS:2015>IEC 61850-7-4:2003
RsAccmAPwr	ABBIED600_Rev2_SPC_control_e	Reset accumulation energy	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
RsCBWear	ABBIED600_Rev2_SPC_control_e	Reset input for CB remaining life and operation counter	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
RsTrvTm	ABBIED600_Rev2_SPC_control_e	SSCBR1 travel t	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
TestSpvn	ABBIED600_Rev3_INC_TestSpvn_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
TrvClcMod	ABBIED600_Rev2_ENG_SP_TrvClcMod_e	Travel time calculation mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
DirCff	ABBIED600_Rev1_ASG_SP_f_e	Directional coefficient for CB life calculation	E	REx620 MICS:2015>IEC 61850-7-4:2003
IniRmnNumOp	ABBIED600_Rev1_ASG_SP_f_e	Initial value for the CB remaining life estimates	E	REx620 MICS:2015>IEC 61850-7-4:2003
AlmAccmAPwr	ABBIED600_Rev3_ASG_SP_i_e	Setting of alarm level for accumulated currents power, Iyt	E	REx620 MICS:2015>IEC 61850-7-4:2003
AccmStopA	ABBIED600_Rev3_ASG_SP_i_e	Setting of the RMS current below which engy acm stops	E	REx620 MICS:2015>IEC 61850-7-4:2003
LOAccmAPwr	ABBIED600_Rev3_ASG_SP_i_e	Setting of lockout level for accumulated currents power, Iyt	E	REx620 MICS:2015>IEC 61850-7-4:2003
AExpn	ABBIED600_Rev1_ASG_SP_f_e	Current exponent setting for energy calculation	E	REx620 MICS:2015>IEC 61850-7-4:2003
AOpRtg	ABBIED600_Rev3_ASG_SP_i_e	Rated operating current of the breaker	E	REx620 MICS:2015>IEC 61850-7-4:2003
AFltRtg	ABBIED600_Rev3_ASG_SP_i_e	Rated fault current of the breaker	E	REx620 MICS:2015>IEC 61850-7-4:2003

IniAccmAPwr	ABBIED600_Rev3_ASG_SP_i_e	Initial value for accumulation energy (Iyt)	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.14 LN: SPH1SCBR1 Name: SCBR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		
RmnNumOp	ABBIED600_Rev1_INS_d_e	CB Remaining life phase A	E	REx620 MICS:2015>IEC 61850-7-4:2003
AccmAPwr	ABBIED600_Rev3_MV_simple_i_e	Accumulated currents power (Iyt), phase A	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.15 LN: SPH2SCBR1 Name: SCBR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		
RmnNumOp	ABBIED600_Rev1_INS_d_e	CB Remaining life phase B	E	REx620 MICS:2015>IEC 61850-7-4:2003
AccmAPwr	ABBIED600_Rev3_MV_simple_i_e	Accumulated currents power (Iyt), phase B	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.16 LN: SPH3SCBR1 Name: SCBR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		
RmnNumOp	ABBIED600_Rev1_INS_d_e	CB Remaining life phase C	E	REx620 MICS:2015>IEC 61850-7-4:2003
AccmAPwr	ABBIED600_Rev3_MV_simple_i_e	Accumulated currents power (Iyt), phase C	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.17 LN: SSOPM1 Name: SOPM (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
SprChaAlm	ABBIED600_Rev1_SPS_e	Spring charging time has crossed the set value	E	REx620 MICS:2015>IEC 61850-7-4:2003
SprChaStr	ABBIED600_Rev1_SPS_e	CB spring charging started input	E	REx620 MICS:2015>IEC 61850-7-4:2003
SprChaStop	ABBIED600_Rev1_SPS_e	CB spring charged input	E	REx620 MICS:2015>IEC 61850-7-4:2003
SprChaT-mms	ABBIED600_Rev1_ING_SP_e	Setting of alarm for spring charging time of CB in ms.	E	REx620 MICS:2015>IEC 61850-7-4:2003
TmsSprCha	ABBIED600_Rev3_MV_simple_i_e	The charging time of the CB spring	E	REx620 MICS:2015>IEC 61850-7-4:2003
RsSprChaTm	ABBIED600_Rev2_SPC_control_e	SSCBR1 spr.charge t	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-secu-rity

6.1.18 LN: SSCBR2 Name: SCBR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_Of-fOn_FD_ED1	Mod		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		
OpCntAlm	ABBIED600_Rev1_SPS	Number of CB op-erations exceeds alarm limit		
OpTmOpn	ABBIED600_Rev3_MV_simple_i	Travel time of the CB during open-ing operation		
OpTmCls	ABBIED600_Rev3_MV_simple_i	Travel time of the CB during closing operation		
OpTmAlm	ABBIED600_Rev1_SPS_simple	Switch operating time exceeded		

OpAlmNum	ABBIED600_Rev1_ING_SP_1	Setting of alarm for number of CB operations.		
OpCntRs	ABBIED600_Rev1_INC_simple_int	Number of CB operation cycle		status-only
InPosOpn	ABBIED600_Rev1_SPS_e	POSOPEN	E	REx620 MICS:2015>IEC 61850-7-4:2003
InPosCls	ABBIED600_Rev1_SPS_e	POSCLOSE	E	REx620 MICS:2015>IEC 61850-7-4:2003
ColCls	ABBIED600_Rev1_SPS_simple_e	Close command status	E	REx620 MICS:2015>IEC 61850-7-4:2003
PosOpn	ABBIED600_Rev1_SPS_e	CB position is open	E	REx620 MICS:2015>IEC 61850-7-4:2003
PosIvd	ABBIED600_Rev1_SPS_e	INVALIDPOS	E	REx620 MICS:2015>IEC 61850-7-4:2003
PosCls	ABBIED600_Rev1_SPS_e	CB position is closed	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpnAlm	ABBIED600_Rev1_SPS_e	CB open travel time exceeded set value	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClsAlm	ABBIED600_Rev1_SPS_e	CB close travel time exceeded set value	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpCntLO	ABBIED600_Rev1_SPS_e	Number of CB operations exceeds lockout limit	E	REx620 MICS:2015>IEC 61850-7-4:2003
LonTmAlm	ABBIED600_Rev1_SPS_e	CB 'not operated for long time' alarm	E	REx620 MICS:2015>IEC 61850-7-4:2003
APwrAlm	ABBIED600_Rev1_SPS_e	Accumulated currents power (Iyt),exceeded alarm limit	E	REx620 MICS:2015>IEC 61850-7-4:2003
APwrLO	ABBIED600_Rev1_SPS_e	Accumulated currents power (Iyt),exceeded lockout limit	E	REx620 MICS:2015>IEC 61850-7-4:2003
RmnNumOpAlm	ABBIED600_Rev1_SPS_e	Remaining life of CB exceeded alarm limit	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpnAlmTmms	ABBIED600_Rev1_ING_SP_1_e	Setting of alarm level for open travel time in ms	E	REx620 MICS:2015>IEC 61850-7-4:2003
CorOpnTmms	ABBIED600_Rev1_ING_SP_1_e	Correction factor for open travel time in ms	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClsAlmTmms	ABBIED600_Rev1_ING_SP_1_e	Setting of alarm level for close travel time in ms	E	REx620 MICS:2015>IEC 61850-7-4:2003
CorClsTmms	ABBIED600_Rev1_ING_SP_1_e	Correction factor for CB close travel time in ms	E	REx620 MICS:2015>IEC 61850-7-4:2003

CorDifTmms	ABBIED600_Rev1_ING_SP_1_e	Corr. factor for time dif in aux. and main contacts open time	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpLONum	ABBIED600_Rev1_ING_SP_1_e	Setting to block operation when number of operation is more.	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpNumRtg	ABBIED600_Rev1_ING_SP_1_e	Number of operations possible at rated current	E	REx620 MICS:2015>IEC 61850-7-4:2003
NumOpAlm-Lev	ABBIED600_Rev1_ING_SP_1_e	Alarm level for CB remaining life	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpNumFlt	ABBIED600_Rev1_ING_SP_1_e	Number of operations possible at rated fault current	E	REx620 MICS:2015>IEC 61850-7-4:2003
CntIniVal	ABBIED600_Rev1_ING_SP_1_e	The operation numbers counter initialization value	E	REx620 MICS:2015>IEC 61850-7-4:2003
InaAlmTmd	ABBIED600_Rev1_ING_SP_1_e	Alarm limit value of the inactive days counter	E	REx620 MICS:2015>IEC 61850-7-4:2003
IniInaTmd	ABBIED600_Rev1_ING_SP_1_e	Initial value of the inactive days counter	E	REx620 MICS:2015>IEC 61850-7-4:2003
InaAlmTmh	ABBIED600_Rev1_ING_SP_1_e	Alarm time of the inactive days counter in hours	E	REx620 MICS:2015>IEC 61850-7-4:2003
InaTmdCnt	ABBIED600_Rev1_INS_e	The number of days CB has been inactive	E	REx620 MICS:2015>IEC 61850-7-4:2003
RsAccmAPwr	ABBIED600_Rev2_SPC_control_e	Reset accumulation energy	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
RsCBWear	ABBIED600_Rev2_SPC_control_e	Reset input for CB remaining life and operation counter	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
RsTrvTm	ABBIED600_Rev2_SPC_control_e	SSCBR2 travel t	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
TestSpvn	AB-BIED600_Rev3_INC_TestSpvn_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
TrvClcMod	AB-BIED600_Rev2_ENG_SP_TrvClcMod_e	Travel time calculation mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
DirCff	ABBIED600_Rev1_ASG_SP_f_e	Directional coefficient for CB life calculation	E	REx620 MICS:2015>IEC 61850-7-4:2003

IniRm-nNumOp	ABBIED600_Rev1_ASG_SP_f_e	Initial value for the CB remaining life estimates	E	REx620 MICS:2015>IEC 61850-7-4:2003
Al-mAccmAPwr	ABBIED600_Rev3_ASG_SP_i_e	Setting of alarm level for accumulated currents power, Iyt	E	REx620 MICS:2015>IEC 61850-7-4:2003
AccmStopA	ABBIED600_Rev3_ASG_SP_i_e	Setting of the RMS current below which engy acm stops	E	REx620 MICS:2015>IEC 61850-7-4:2003
LOAccmAPwr	ABBIED600_Rev3_ASG_SP_i_e	Setting of lockout level for accumulated currents power, Iyt	E	REx620 MICS:2015>IEC 61850-7-4:2003
AExpn	ABBIED600_Rev1_ASG_SP_f_e	Current exponent setting for energy calculation	E	REx620 MICS:2015>IEC 61850-7-4:2003
AOpRtg	ABBIED600_Rev3_ASG_SP_i_e	Rated operating current of the breaker	E	REx620 MICS:2015>IEC 61850-7-4:2003
AFltRtg	ABBIED600_Rev3_ASG_SP_i_e	Rated fault current of the breaker	E	REx620 MICS:2015>IEC 61850-7-4:2003
IniAccmAPwr	ABBIED600_Rev3_ASG_SP_i_e	Initial value for accumulation energy (Iyt)	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.19 LN: SPH1SCBR2 Name: SCBR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		
RmnNumOp	ABBIED600_Rev1_INS_d_e	CB Remaining life phase A	E	REx620 MICS:2015>IEC 61850-7-4:2003
AccmAPwr	ABBIED600_Rev3_MV_simple_i_e	Accumulated currents power (Iyt), phase A	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.20 LN: SPH2SCBR2 Name: SCBR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only

NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		
RmnNumOp	ABBIED600_Rev1_INS_d_e	CB Remaining life phase B	E	REx620 MICS:2015>IEC 61850-7-4:2003
AccmAPwr	ABBIED600_Rev3_MV_simple_i_e	Accumulated currents power (Iyt), phase B	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.21 LN: SPH3SCBR2 Name: SCBR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		
RmnNumOp	ABBIED600_Rev1_INS_d_e	CB Remaining life phase C	E	REx620 MICS:2015>IEC 61850-7-4:2003
AccmAPwr	ABBIED600_Rev3_MV_simple_i_e	Accumulated currents power (Iyt), phase C	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.22 LN: SSOPM2 Name: SOPM (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
SprChaAlm	ABBIED600_Rev1_SPS_e	Spring charging time has crossed the set value	E	REx620 MICS:2015>IEC 61850-7-4:2003
SprChaStr	ABBIED600_Rev1_SPS_e	CB spring charging started input	E	REx620 MICS:2015>IEC 61850-7-4:2003
SprChaStop	ABBIED600_Rev1_SPS_e	CB spring charged input	E	REx620 MICS:2015>IEC 61850-7-4:2003
SprChaT-mms	ABBIED600_Rev1_ING_SP_e	Setting of alarm for spring charging time of CB in ms.	E	REx620 MICS:2015>IEC 61850-7-4:2003
TmsSprCha	ABBIED600_Rev3_MV_simple_i_e	The charging time of the CB spring	E	REx620 MICS:2015>IEC 61850-7-4:2003
RsSprChaTm	ABBIED600_Rev2_SPC_control_e	SSCBR2 spr.charge t	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-secu-rity

6.1.23 LN: SSCBR3 Name: SCBR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_Of-fOn_FD_ED1	Mod		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		
OpCntAlm	ABBIED600_Rev1_SPS	Number of CB op-erations exceeds alarm limit		
OpTmOpn	ABBIED600_Rev3_MV_simple_i	Travel time of the CB during open-ing operation		
OpTmCls	ABBIED600_Rev3_MV_simple_i	Travel time of the CB during closing operation		
OpTmAlm	ABBIED600_Rev1_SPS_simple	Switch operating time exceeded		
OpAlmNum	ABBIED600_Rev1_ING_SP_1	Setting of alarm for number of CB operations.		
OpCntRs	ABBIED600_Rev1_INC_simple_int	Number of CB op-eration cycle		status-only
InPosOpn	ABBIED600_Rev1_SPS_e	POSOPEN	E	REx620 MICS:2015>IEC 61850-7-4:2003
InPosCls	ABBIED600_Rev1_SPS_e	POSCLOSE	E	REx620 MICS:2015>IEC 61850-7-4:2003
ColCls	ABBIED600_Rev1_SPS_simple_e	Close command status	E	REx620 MICS:2015>IEC 61850-7-4:2003
PosOpn	ABBIED600_Rev1_SPS_e	CB position is open	E	REx620 MICS:2015>IEC 61850-7-4:2003
PosIvd	ABBIED600_Rev1_SPS_e	INVALIDPOS	E	REx620 MICS:2015>IEC 61850-7-4:2003
PosCls	ABBIED600_Rev1_SPS_e	CB position is closed	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpnAlm	ABBIED600_Rev1_SPS_e	CB open travel time exceeded set value	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClsAlm	ABBIED600_Rev1_SPS_e	CB close travel time exceeded set value	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpCntLO	ABBIED600_Rev1_SPS_e	Number of CB op-erations exceeds lockout limit	E	REx620 MICS:2015>IEC 61850-7-4:2003

LonTmAlm	ABBIED600_Rev1_SPS_e	CB 'not operated for long time' alarm	E	REx620 MICS:2015>IEC 61850-7-4:2003
APwrAlm	ABBIED600_Rev1_SPS_e	Accumulated currents power (Iyt),exceeded alarm limit	E	REx620 MICS:2015>IEC 61850-7-4:2003
APwrLO	ABBIED600_Rev1_SPS_e	Accumulated currents power (Iyt),exceeded lockout limit	E	REx620 MICS:2015>IEC 61850-7-4:2003
RmnNumOpAlm	ABBIED600_Rev1_SPS_e	Remaining life of CB exceeded alarm limit	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpnAlmTmms	ABBIED600_Rev1_ING_SP_1_e	Setting of alarm level for open travel time in ms	E	REx620 MICS:2015>IEC 61850-7-4:2003
CorOpnTmms	ABBIED600_Rev1_ING_SP_1_e	Correction factor for open travel time in ms	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClsAlmTmms	ABBIED600_Rev1_ING_SP_1_e	Setting of alarm level for close travel time in ms	E	REx620 MICS:2015>IEC 61850-7-4:2003
CorClsTmms	ABBIED600_Rev1_ING_SP_1_e	Correction factor for CB close travel time in ms	E	REx620 MICS:2015>IEC 61850-7-4:2003
CorDifTmms	ABBIED600_Rev1_ING_SP_1_e	Corr. factor for time dif in aux. and main contacts open time	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpLONum	ABBIED600_Rev1_ING_SP_1_e	Setting to block operation when number of operation is more.	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpNumRtg	ABBIED600_Rev1_ING_SP_1_e	Number of operations possible at rated current	E	REx620 MICS:2015>IEC 61850-7-4:2003
NumOpAlmLev	ABBIED600_Rev1_ING_SP_1_e	Alarm level for CB remaining life	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpNumFlt	ABBIED600_Rev1_ING_SP_1_e	Number of operations possible at rated fault current	E	REx620 MICS:2015>IEC 61850-7-4:2003
CntIniVal	ABBIED600_Rev1_ING_SP_1_e	The operation numbers counter initialization value	E	REx620 MICS:2015>IEC 61850-7-4:2003
InaAlmTmd	ABBIED600_Rev1_ING_SP_1_e	Alarm limit value of the inactive days counter	E	REx620 MICS:2015>IEC 61850-7-4:2003
IniInaTmd	ABBIED600_Rev1_ING_SP_1_e	Initial value of the inactive days counter	E	REx620 MICS:2015>IEC 61850-7-4:2003

InaAlmTmh	ABBIED600_Rev1_ING_SP_1_e	Alarm time of the inactive days counter in hours	E	REx620 MICS:2015>IEC 61850-7-4:2003
InaTmdCnt	ABBIED600_Rev1_INS_e	The number of days CB has been inactive	E	REx620 MICS:2015>IEC 61850-7-4:2003
RsAccmAPwr	ABBIED600_Rev2_SPC_control_e	Reset accumulation energy	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
RsCBWear	ABBIED600_Rev2_SPC_control_e	Reset input for CB remaining life and operation counter	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
RsTrvTm	ABBIED600_Rev2_SPC_control_e	SSCBR3 travel t	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
TestSpvn	ABBIED600_Rev3_INC_TestSpvn_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
TrvClcMod	ABBIED600_Rev2_ENG_SP_TrvClcMod_e	Travel time calculation mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
DirCff	ABBIED600_Rev1_ASG_SP_f_e	Directional coefficient for CB life calculation	E	REx620 MICS:2015>IEC 61850-7-4:2003
IniRmnNumOp	ABBIED600_Rev1_ASG_SP_f_e	Initial value for the CB remaining life estimates	E	REx620 MICS:2015>IEC 61850-7-4:2003
AlmAccmAPwr	ABBIED600_Rev3_ASG_SP_i_e	Setting of alarm level for accumulated currents power, Iyt	E	REx620 MICS:2015>IEC 61850-7-4:2003
AccmStopA	ABBIED600_Rev3_ASG_SP_i_e	Setting of the RMS current below which engy acm stops	E	REx620 MICS:2015>IEC 61850-7-4:2003
LOAccmAPwr	ABBIED600_Rev3_ASG_SP_i_e	Setting of lockout level for accumulated currents power, Iyt	E	REx620 MICS:2015>IEC 61850-7-4:2003
AExpn	ABBIED600_Rev1_ASG_SP_f_e	Current exponent setting for energy calculation	E	REx620 MICS:2015>IEC 61850-7-4:2003
AOpRtg	ABBIED600_Rev3_ASG_SP_i_e	Rated operating current of the breaker	E	REx620 MICS:2015>IEC 61850-7-4:2003
AFltRtg	ABBIED600_Rev3_ASG_SP_i_e	Rated fault current of the breaker	E	REx620 MICS:2015>IEC 61850-7-4:2003

IniAccmAPwr	ABBIED600_Rev3_ASG_SP_i_e	Initial value for accumulation energy (Iyt)	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.24 LN: SPH1SCBR3 Name: SCBR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		
RmnNumOp	ABBIED600_Rev1_INS_d_e	CB Remaining life phase A	E	REx620 MICS:2015>IEC 61850-7-4:2003
AccmAPwr	ABBIED600_Rev3_MV_simple_i_e	Accumulated currents power (Iyt), phase A	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.25 LN: SPH2SCBR3 Name: SCBR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		
RmnNumOp	ABBIED600_Rev1_INS_d_e	CB Remaining life phase B	E	REx620 MICS:2015>IEC 61850-7-4:2003
AccmAPwr	ABBIED600_Rev3_MV_simple_i_e	Accumulated currents power (Iyt), phase B	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.26 LN: SPH3SCBR3 Name: SCBR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		
RmnNumOp	ABBIED600_Rev1_INS_d_e	CB Remaining life phase C	E	REx620 MICS:2015>IEC 61850-7-4:2003
AccmAPwr	ABBIED600_Rev3_MV_simple_i_e	Accumulated currents power (Iyt), phase C	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.27 LN: SSOPM3 Name: SOPM (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
SprChaAlm	ABBIED600_Rev1_SPS_e	Spring charging time has crossed the set value	E	REx620 MICS:2015>IEC 61850-7-4:2003
SprChaStr	ABBIED600_Rev1_SPS_e	CB spring charging started input	E	REx620 MICS:2015>IEC 61850-7-4:2003
SprChaStop	ABBIED600_Rev1_SPS_e	CB spring charged input	E	REx620 MICS:2015>IEC 61850-7-4:2003
SprChaT-mms	ABBIED600_Rev1_ING_SP_e	Setting of alarm for spring charging time of CB in ms.	E	REx620 MICS:2015>IEC 61850-7-4:2003
TmsSprCha	ABBIED600_Rev3_MV_simple_i_e	The charging time of the CB spring	E	REx620 MICS:2015>IEC 61850-7-4:2003
RsSprChaTm	ABBIED600_Rev2_SPC_control_e	SSCBR3 spr.charge t	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.1.28 LN: TCSSCBR1 Name: SCBR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
OpDlTmms	ABBIED600_Rev1_ING_SP_1_e	Operate Delay Time	E	REx620 MICS:2015>IEC 61850-7-4:2003
RsDlTmms	ABBIED600_Rev1_ING_SP_1_e	Reset Delay Time	E	REx620 MICS:2015>IEC 61850-7-4:2003
CircAlm	ABBIED600_Rev1_SPS_e	Alarm	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	AB-BIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		

6.1.29 LN: TCSSCBR2 Name: SCBR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
OpDlTmms	ABBIED600_Rev1_ING_SP_1_e	Operate Delay Time	E	REx620 MICS:2015>IEC 61850-7-4:2003
RsDlTmms	ABBIED600_Rev1_ING_SP_1_e	Reset Delay Time	E	REx620 MICS:2015>IEC 61850-7-4:2003
CircAlm	ABBIED600_Rev1_SPS_e	Alarm	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		

6.1.30 LN: CCSPVC1 Name: SPVC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1_e	Mode	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1_e	Behaviour	E	REx620 MICS:2015>IEC 61850-7-4:2003
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_lnNs_1_e	Name plate	E	REx620 MICS:2015>IEC 61850-7-4:2003
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrVal	ABBIED600_Rev3_ASG_SP_i_e	Minimum operate current differential level	E	REx620 MICS:2015>IEC 61850-7-4:2003
MaxOpA	ABBIED600_Rev3_ASG_SP_i	Block of the function at high phase current		
FailACirc	ABBIED600_Rev1_ACT_simple	Detection of current circuit failure		
SigFailAlm	ABBIED600_Rev1_SPS	Alarm		

TestSpvn	ABBIED600_Rev3_INC_TestSpvn_ED1	Test control for outputs		status-only,direct-with-normal-security
DifAClc	ABBIED600_Rev3_WYE_res_simple_i_e	IDIFF	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.31 LN: SEQSPVC1 Name: SPVC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1_e	Mode	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1_e	Behaviour	E	REx620 MICS:2015>IEC 61850-7-4:2003
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_lnNs_1_e	Name plate	E	REx620 MICS:2015>IEC 61850-7-4:2003
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple_e	General start of function	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str3Ph	ABBIED600_Rev1_ACD_simple	Three-phase start of function		
InPosCls	ABBIED600_Rev1_SPS	Active when circuit breaker is closed		
InDCPosOpn	ABBIED600_Rev1_SPS	Active when line disconnector is open		
InMCBPsOpn	ABBIED600_Rev1_SPS	Active when external MCB opens protected Volt. circuit		
BlkValA	ABBIED600_Rev3_ASG_SP_i_e	Minimum operate level of phase current for delta calculation	E	REx620 MICS:2015>IEC 61850-7-4:2003
NgSeqLevA	ABBIED600_Rev3_ASG_SP_i	Operate level of neg seq undercurrent element		
ChgRteA	ABBIED600_Rev3_ASG_SP_i	Operate level of change in phase current		
ChgRteEna	ABBIED600_Rev1_SPG_SP	Enabling operation of change based function		
ChgRteV	ABBIED600_Rev3_ASG_SP_i	Operate level of change in phase voltage		
EnaSealIn	ABBIED600_Rev1_SPG_SP	Enabling seal in functionality		

BlkValV	ABBIED600_Rev3_ASG_SP_i_e	Minimum operate level of phase voltage for delta calculation	E	REx620 MICS:2015>IEC 61850-7-4:2003
SealInV	ABBIED600_Rev3_ASG_SP_i	Operate level of seal-in phase voltage		
NgSeqLevV	ABBIED600_Rev3_ASG_SP_i	Operate level of neg seq overvoltage element		
TestSpvn	ABBIED600_Rev3_INC_TestSpvn_ED1	SEQSPVC1		status-only,direct-with-normal-security
DeaLinValA	ABBIED600_Rev3_ASG_SP_i	Operate level for open phase current detection		

6.1.32 LN: MDSOPT1 Name: SOPT (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1_e	Mode	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1_e	Behaviour	E	REx620 MICS:2015>IEC 61850-7-4:2003
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_lnNs_1_e	Name plate	E	REx620 MICS:2015>IEC 61850-7-4:2003
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpTmh	ABBIED600_Rev1_INS_e	OPR_TIME	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpTmRs	ABBIED600_Rev2_SPC_control	MDSOPT1 operation t		status-only,direct-with-normal-security
OpTmWrn	ABBIED600_Rev1_SPS_e	Operation time warning	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpTmAlm	ABBIED600_Rev1_SPS_e	Operation time alarm	E	REx620 MICS:2015>IEC 61850-7-4:2003
TmOp	ABBIED600_Rev1_SPS	Indicates that operation time is running		
OpWrnTmh	ABBIED600_Rev1_ING_SP_1_e	Warning value for operation time supervision	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpAlmTmh	ABBIED600_Rev1_ING_SP_1_e	Alarm value for operation time supervision	E	REx620 MICS:2015>IEC 61850-7-4:2003
IniOpTmh	ABBIED600_Rev1_ING_SP_1	Initial value for operation time supervision		

OpActTmh	ABBIED600_Rev1_ING_SP_1	Time of day when alarm and warning will occur		
OpActMod	ABBIED600_Rev2_ENG_SP_TmrAlmMod	Operating time mode for warning and alarm		
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1	Test control for outputs		status-only,direct-with-normal-security

6.1.33 LN: MDSOPT2 Name: SOPT (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1_e	Mode	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1_e	Behaviour	E	REx620 MICS:2015>IEC 61850-7-4:2003
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_lnNs_1_e	Name plate	E	REx620 MICS:2015>IEC 61850-7-4:2003
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpTmh	ABBIED600_Rev1_INS_e	OPR_TIME	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpTmRs	ABBIED600_Rev2_SPC_control	MDSOPT2 operation t		status-only,direct-with-normal-security
OpTmWrn	ABBIED600_Rev1_SPS_e	Operation time warning	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpTmAlm	ABBIED600_Rev1_SPS_e	Operation time alarm	E	REx620 MICS:2015>IEC 61850-7-4:2003
TmOp	ABBIED600_Rev1_SPS	Indicates that operation time is running		
OpWrnTmh	ABBIED600_Rev1_ING_SP_1_e	Warning value for operation time supervision	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpAlmTmh	ABBIED600_Rev1_ING_SP_1_e	Alarm value for operation time supervision	E	REx620 MICS:2015>IEC 61850-7-4:2003
IniOpTmh	ABBIED600_Rev1_ING_SP_1	Initial value for operation time supervision		
OpActTmh	ABBIED600_Rev1_ING_SP_1	Time of day when alarm and warning will occur		
OpActMod	ABBIED600_Rev2_ENG_SP_TmrAlmMod	Operating time mode for warning and alarm		
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1	Test control for outputs		status-only,direct-with-normal-security

6.1.34 LN: LDPRLRC1 Name: RLRC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OfOn_FD_ED1_e	Mode	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1_e	Behaviour	E	REx620 MICS:2015>IEC 61850-7-4:2003
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_lnNs_1_e	Name plate	E	REx620 MICS:2015>IEC 61850-7-4:2003
RcdRs	ABBIED600_Rev2_SPC_control	Reset load profile rec.		status-only,direct-with-normal-security
QtySel1	ABBIED600_Rev3_ENG_SP_QtySel	Quantity selection 1		
QtySel2	ABBIED600_Rev3_ENG_SP_QtySel	Quantity selection 2		
QtySel3	ABBIED600_Rev3_ENG_SP_QtySel	Quantity selection 3		
QtySel4	ABBIED600_Rev3_ENG_SP_QtySel	Quantity selection 4		
QtySel5	ABBIED600_Rev3_ENG_SP_QtySel	Quantity selection 5		
QtySel6	ABBIED600_Rev3_ENG_SP_QtySel	Quantity selection 6		
QtySel7	ABBIED600_Rev3_ENG_SP_QtySel	Quantity selection 7		
QtySel8	ABBIED600_Rev3_ENG_SP_QtySel	Quantity selection 8		
QtySel9	ABBIED600_Rev3_ENG_SP_QtySel	Quantity selection 9		
QtySel10	ABBIED600_Rev3_ENG_SP_QtySel	Quantity selection 10		
QtySel11	ABBIED600_Rev3_ENG_SP_QtySel	Quantity selection 11		
QtySel12	ABBIED600_Rev3_ENG_SP_QtySel	Quantity selection 12		
MemUsed	ABBIED600_Rev1_INS_e	Rec. memory used	E	REx620 MICS:2015>IEC 61850-7-4:2003
MemWrn	ABBIED600_Rev1_SPS_simple	Memory warning		
MemAlm	ABBIED600_Rev1_SPS_simple	Memory alarm		
MemWrnLev	ABBIED600_Rev1_ING_SP_1	Mem. warning level		
MemAlmLev	ABBIED600_Rev1_ING_SP_1	Mem. alarn level		

6.1.35 LN: PH1QVVR1 Name: QVVR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OfFOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
VarStr	ABBIED600_Rev1_SPS	Start Phase A (Voltage Variation Event in progress)		
DipStr	ABBIED600_Rev1_SPS	Start (Voltage Dip Event in progress)		
SwlStr	ABBIED600_Rev1_SPS	Start (Voltage Swell Event in progress)		
IntrStr	ABBIED600_Rev1_SPS	Start (Voltage Interruption Event in progress)		
VarEnd	ABBIED600_Rev1_SPS	Event finished but not Reset		
VVa	ABBIED600_Rev3_MV_simple_i	Voltage Variation Magnitude of the last completed event		
VVaTm	ABBIED600_Rev3_MV_simple_i	Voltage Variation Duration of the last completed event		
OpCntRs	ABBIED600_Rev2_INC_control_int	Resettable operation counter		status-only,direct-with-normal-security
DipStrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Voltage Dip Set Point 1		
DipStr2Val	ABBIED600_Rev3_ASG_SG_i_ED1_e	Voltage Dip Set Point 2	E	REx620 MICS:2015>IEC 61850-7-4:2003
DipStr3Val	ABBIED600_Rev3_ASG_SG_i_ED1_e	Voltage Dip Set Point 3	E	REx620 MICS:2015>IEC 61850-7-4:2003
SwlStrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Voltage Swell Set Point 1		
SwlStr2Val	ABBIED600_Rev3_ASG_SG_i_ED1_e	Voltage Swell Set Point 2	E	REx620 MICS:2015>IEC 61850-7-4:2003
SwlStr3Val	ABBIED600_Rev3_ASG_SG_i_ED1_e	Voltage Swell Set Point 3	E	REx620 MICS:2015>IEC 61850-7-4:2003

IntrStrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Voltage Interruption Set Point		
RefV	ABBIED600_Rev3_ASG_SG_i_ED1_e	Reference supply voltage in %	E	REx620 MICS:2015>IEC 61850-7-4:2003
Dip1Cyc	ABBIED600_Rev3_ASG_SG_i_ED1_e	Voltage variation dip duration 1	E	REx620 MICS:2015>IEC 61850-7-4:2003
Dip2Cyc	ABBIED600_Rev3_ASG_SG_i_ED1_e	Voltage variation dip duration 2	E	REx620 MICS:2015>IEC 61850-7-4:2003
Dip3Tmms	ABBIED600_Rev1_ING_SG_ED1_e	Voltage variation dip duration 3	E	REx620 MICS:2015>IEC 61850-7-4:2003
Swl1Cyc	ABBIED600_Rev3_ASG_SG_i_ED1_e	Voltage variation swell duration 1	E	REx620 MICS:2015>IEC 61850-7-4:2003
Swl2Cyc	ABBIED600_Rev3_ASG_SG_i_ED1_e	Voltage variation swell duration 2	E	REx620 MICS:2015>IEC 61850-7-4:2003
Swl3Tmms	ABBIED600_Rev1_ING_SG_ED1_e	Voltage variation swell duration 3	E	REx620 MICS:2015>IEC 61850-7-4:2003
Intr1Cyc	ABBIED600_Rev3_ASG_SG_i_ED1_e	Voltage variation interruption duration 1	E	REx620 MICS:2015>IEC 61850-7-4:2003
Intr2Cyc	ABBIED600_Rev3_ASG_SG_i_ED1_e	Voltage variation interruption duration 2	E	REx620 MICS:2015>IEC 61850-7-4:2003
Intr3Tmms	ABBIED600_Rev1_ING_SG_ED1_e	Voltage variation interruption duration 3	E	REx620 MICS:2015>IEC 61850-7-4:2003
MaxDurTmms	ABBIED600_Rev1_ING_SG_ED1_e	Maximum voltage variation duration	E	REx620 MICS:2015>IEC 61850-7-4:2003
SwlOp	ABBIED600_Rev1_SPS_e	Voltage Event Swell detected	E	REx620 MICS:2015>IEC 61850-7-4:2003
DipOp	ABBIED600_Rev1_SPS_e	Voltage Event Dip detected	E	REx620 MICS:2015>IEC 61850-7-4:2003
IntrOp	ABBIED600_Rev1_SPS_e	Voltage Event Interruption detected	E	REx620 MICS:2015>IEC 61850-7-4:2003
APreVa	ABBIED600_Rev3_MV_simple_i_e	Current magnitude Ph A preceding variation	E	REx620 MICS:2015>IEC 61850-7-4:2003
SwlInstCnt	ABBIED600_Rev1_INS_e	Instantaneous swell operation counter	E	REx620 MICS:2015>IEC 61850-7-4:2003
SwlMomCnt	ABBIED600_Rev1_INS_e	Momentary swell operation counter	E	REx620 MICS:2015>IEC 61850-7-4:2003

SwlTmpCnt	ABBIED600_Rev1_INS_e	Temporary swell operation counter	E	REx620 MICS:2015>IEC 61850-7-4:2003
SwlMaxCnt	ABBIED600_Rev1_INS_e	Maximum duration swell operation counter	E	REx620 MICS:2015>IEC 61850-7-4:2003
DipInstCnt	ABBIED600_Rev1_INS_e	Instantaneous dip operation counter	E	REx620 MICS:2015>IEC 61850-7-4:2003
DipTmpCnt	ABBIED600_Rev1_INS_e	Temporary dip operation counter	E	REx620 MICS:2015>IEC 61850-7-4:2003
DipMomCnt	ABBIED600_Rev1_INS_e	Momentary dip operation counter	E	REx620 MICS:2015>IEC 61850-7-4:2003
DipMaxCnt	ABBIED600_Rev1_INS_e	Maximum duration dip operation counter	E	REx620 MICS:2015>IEC 61850-7-4:2003
IntrMomCnt	ABBIED600_Rev1_INS_e	Momentary interruption operation counter	E	REx620 MICS:2015>IEC 61850-7-4:2003
IntrTmpCnt	ABBIED600_Rev1_INS_e	Temporary interruption operation counter	E	REx620 MICS:2015>IEC 61850-7-4:2003
IntrSstCnt	ABBIED600_Rev1_INS_e	Sustained interruption operation counter	E	REx620 MICS:2015>IEC 61850-7-4:2003
IntrMaxCnt	ABBIED600_Rev1_INS_e	Maximum duration interruptionl operation counter	E	REx620 MICS:2015>IEC 61850-7-4:2003
CntRs	ABBIED600_Rev2_SPC_control_e	Counters reset	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
PhSpvn	ABBIED600_Rev2_ENG_SP_PhSv_e	Monitored phase	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpModPh	ABBIED600_Rev2_ENG_SP_OpModPh_e	Phase mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
VVaEna	ABBIED600_Rev3_ENG_SP_VVaTyp_e	Variation enable	E	REx620 MICS:2015>IEC 61850-7-4:2003
VaOp	ABBIED600_Rev1_SPS_e	Voltage Event detected	E	REx620 MICS:2015>IEC 61850-7-4:2003
VaStrGen	ABBIED600_Rev1_SPS_e	Start (Voltage Variation Event in progress)	E	REx620 MICS:2015>IEC 61850-7-4:2003
VVaTyp	ABBIED600_Rev3_INS_VVaTyp_ED1_e	Voltage variation type	E	REx620 MICS:2015>IEC 61850-7-4:2003

RcdRs	ABBIED600_Rev2_SPC_control_e	Recorded data reset	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.1.36 LN: PH2QVVR1 Name: QVVR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
VarStr	ABBIED600_Rev1_SPS	Start Phase B (Voltage Variation Event in progress)		
VVa	ABBIED600_Rev3_MV_simple_i	Voltage Variation Magnitude of the last completed event		
VVaTm	ABBIED600_Rev3_MV_simple_i	Voltage Variation Duration of the last completed event		
APreVa	ABBIED600_Rev3_MV_simple_i_e	Current magnitude Phase B preceding variation	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.37 LN: PH3QVVR1 Name: QVVR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
VarStr	ABBIED600_Rev1_SPS	Start Phase C (Voltage Variation Event in progress)		
VVa	ABBIED600_Rev3_MV_simple_i	Voltage Variation Magnitude of the last completed event		
VVaTm	ABBIED600_Rev3_MV_simple_i	Voltage Variation Duration of the last completed event		
APreVa	ABBIED600_Rev3_MV_simple_i_e	Current magnitude Ph C preceding variation	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.38 LN: QVV1RQRC1 Name: RQRC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

Mod	AB-BIED600_Rev1_INC_Mod_On_ED1_e	Mode	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only
Beh	ABBIED600_Rev2_INS_beh_ED1_e	Behaviour	E	REx620 MICS:2015>IEC 61850-7-4:2003
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_lnNs_1_e	Name plate	E	REx620 MICS:2015>IEC 61850-7-4:2003
VVaTyp	AB-BIED600_Rev3_INS_VVaTyp_ED1_e	Voltage variation type	E	REx620 MICS:2015>IEC 61850-7-4:2003
VVaPhsA	ABBIED600_Rev3_MV_simple_i_e	VVa Magn phase A of the newest completed event	E	REx620 MICS:2015>IEC 61850-7-4:2003
VVaPhsB	ABBIED600_Rev3_MV_simple_i_e	VVa Magn phase B of the newest completed event	E	REx620 MICS:2015>IEC 61850-7-4:2003
VVaPhsC	ABBIED600_Rev3_MV_simple_i_e	VVa Magn phase C of the newest completed event	E	REx620 MICS:2015>IEC 61850-7-4:2003
VVaTmPhsA	ABBIED600_Rev3_MV_simple_i_e	VVa Phase A Dur of the newest completed event	E	REx620 MICS:2015>IEC 61850-7-4:2003
VVaTmPhsB	ABBIED600_Rev3_MV_simple_i_e	VVa Phase B Dur of the newest completed event	E	REx620 MICS:2015>IEC 61850-7-4:2003
VVaTmPhsC	ABBIED600_Rev3_MV_simple_i_e	VVa Phase C Dur of the newest completed event	E	REx620 MICS:2015>IEC 61850-7-4:2003
APreVaPhsA	ABBIED600_Rev3_MV_simple_i_e	I_A preceding Va start of the newest completed event	E	REx620 MICS:2015>IEC 61850-7-4:2003
APreVaPhsB	ABBIED600_Rev3_MV_simple_i_e	I_B preceding Va start of the newest completed event	E	REx620 MICS:2015>IEC 61850-7-4:2003
APreVaPhsC	ABBIED600_Rev3_MV_simple_i_e	I_C preceding Va start of the newest completed event	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.39 LN: QVV2RQRC1 Name: RQRC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_INC_Mod_On_ED1_e	Mode	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only
Beh	ABBIED600_Rev2_INS_beh_ED1_e	Behaviour	E	REx620 MICS:2015>IEC 61850-7-4:2003
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_lnNs_1_e	Name plate	E	REx620 MICS:2015>IEC 61850-7-4:2003
VVaTyp	AB-BIED600_Rev3_INS_VVaTyp_ED1_e	Voltage variation type	E	REx620 MICS:2015>IEC 61850-7-4:2003

VVaPhsA	ABBIED600_Rev3_MV_simple_i_e	VVa Magn phase A of the second newest completed event	E	REx620 MICS:2015>IEC 61850-7-4:2003
VVaPhsB	ABBIED600_Rev3_MV_simple_i_e	VVa Magn phase B of the second newest completed event	E	REx620 MICS:2015>IEC 61850-7-4:2003
VVaPhsC	ABBIED600_Rev3_MV_simple_i_e	VVa Magn phase C of the second newest completed event	E	REx620 MICS:2015>IEC 61850-7-4:2003
VVaTmPhsA	ABBIED600_Rev3_MV_simple_i_e	VVa Phase A Dur of the second newest completed event	E	REx620 MICS:2015>IEC 61850-7-4:2003
VVaTmPhsB	ABBIED600_Rev3_MV_simple_i_e	VVa Phase B Dur of the second newest completed event	E	REx620 MICS:2015>IEC 61850-7-4:2003
VVaTmPhsC	ABBIED600_Rev3_MV_simple_i_e	VVa Phase C Dur of the second newest completed event	E	REx620 MICS:2015>IEC 61850-7-4:2003
APreVaPhsA	ABBIED600_Rev3_MV_simple_i_e	I_A preceding Va start of the 2nd newest completed event	E	REx620 MICS:2015>IEC 61850-7-4:2003
APreVaPhsB	ABBIED600_Rev3_MV_simple_i_e	I_B preceding Va start of the 2nd newest completed event	E	REx620 MICS:2015>IEC 61850-7-4:2003
APreVaPhsC	ABBIED600_Rev3_MV_simple_i_e	I_C preceding Va start of the 2nd newest completed event	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.40 LN: QVV3RQRC1 Name: RQRC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1_e	Mode	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only
Beh	ABBIED600_Rev2_INS_beh_ED1_e	Behaviour	E	REx620 MICS:2015>IEC 61850-7-4:2003
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_lnNs_1_e	Name plate	E	REx620 MICS:2015>IEC 61850-7-4:2003
VVaTyp	ABBIED600_Rev3_INS_VVaTyp_ED1_e	Voltage variation type	E	REx620 MICS:2015>IEC 61850-7-4:2003
VVaPhsA	ABBIED600_Rev3_MV_simple_i_e	VVa Magn phase A of the third newest completed event	E	REx620 MICS:2015>IEC 61850-7-4:2003
VVaPhsB	ABBIED600_Rev3_MV_simple_i_e	VVa Magn phase B of the third newest completed event	E	REx620 MICS:2015>IEC 61850-7-4:2003

VVaPhsC	ABBIED600_Rev3_MV_simple_i_e	VVa Magn phase C of the third newest completed event	E	REx620 MICS:2015>IEC 61850-7-4:2003
VVaTmPhsA	ABBIED600_Rev3_MV_simple_i_e	VVa Phase A Dur of the third newest completed event	E	REx620 MICS:2015>IEC 61850-7-4:2003
VVaTmPhsB	ABBIED600_Rev3_MV_simple_i_e	VVa Phase B Dur of the third newest completed event	E	REx620 MICS:2015>IEC 61850-7-4:2003
VVaTmPhsC	ABBIED600_Rev3_MV_simple_i_e	VVa Phase C Dur of the third newest completed event	E	REx620 MICS:2015>IEC 61850-7-4:2003
APreVaPhsA	ABBIED600_Rev3_MV_simple_i_e	I_A preceding Va start of the 3rd newest completed event	E	REx620 MICS:2015>IEC 61850-7-4:2003
APreVaPhsB	ABBIED600_Rev3_MV_simple_i_e	I_B preceding Va start of the 3rd newest completed event	E	REx620 MICS:2015>IEC 61850-7-4:2003
APreVaPhsC	ABBIED600_Rev3_MV_simple_i_e	I_C preceding Va start of the 3rd newest completed event	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.41 LN: VSQVUB1 Name: QVUB (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_1tsg_setCal	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
VarStr	ABBIED600_Rev1_SPS	Start of the event		
MaxVVa	ABBIED600_Rev3_MV_simple_i	Maximum unbalance deviation value		
UnbDetMth	ABBIED600_Rev1_ENG_SP_UnbDetMth	Unbalance detection method		
StrVal	ABBIED600_Rev3_ASG_SP_i	Voltage unbalance start value		
TrgModPQ	ABBIED600_Rev2_ENG_SP_TrgModPQ_e	Observation period triggering mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
ObsPerSel	ABBIED600_Rev2_ENG_SP_ObsPerSel_e	Observation period duration	E	REx620 MICS:2015>IEC 61850-7-4:2003
ObsPerUsr	ABBIED600_Rev1_ING_SP_1_e	User defined observation period	E	REx620 MICS:2015>IEC 61850-7-4:2003

HiPctVUnb	ABBIED600_Rev1_SPS_e	Status percentile unbalance exceeds the limit	E	REx620 MICS:2015>IEC 61850-7-4:2003
ObsPerAct	ABBIED600_Rev1_SPS_e	Observation period for statistical calculation active	E	REx620 MICS:2015>IEC 61850-7-4:2003
PctUnbVal	ABBIED600_Rev3_MV_simple_i_e	Percentile value of voltage unbalance in an observation	E	REx620 MICS:2015>IEC 61850-7-4:2003
VUnb3sMn	ABBIED600_Rev3_MV_simple_i_e	Non sliding 3 second mean value of voltage unbalance	E	REx620 MICS:2015>IEC 61850-7-4:2003
VUnb10mMn	ABBIED600_Rev3_MV_simple_i_e	Sliding 10 minutes mean value of voltage unbalance	E	REx620 MICS:2015>IEC 61850-7-4:2003
PctUnb	ABBIED600_Rev3_ASG_SP_i_e	Percentile Index	E	REx620 MICS:2015>IEC 61850-7-4:2003
ObsPerStr	ABBIED600_Rev1_SPS_simple_e	Observation Start	E	REx620 MICS:2015>IEC 61850-7-4:2003
ObsPerEnd	ABBIED600_Rev1_SPS_simple_e	Observation End	E	REx620 MICS:2015>IEC 61850-7-4:2003
TestOth	ABBIED600_Rev1_INC_TestOth_ED1_e	Test Outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
TrgObsPer	ABBIED600_Rev2_SPC_control_e	Trigger for observation period	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
RcdRs	ABBIED600_Rev2_SPC_control_e	Recorded data reset	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
PerStrDate	ABBIED600_Rev2_TSG_SP_setCal_e	Observation start time	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.42 LN: QVU1RQRC1 Name: RQRC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1_e	Mode	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only
Beh	ABBIED600_Rev2_INS_beh_ED1_e	Behaviour	E	REx620 MICS:2015>IEC 61850-7-4:2003
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_lnNs_1_e	Name Plate	E	REx620 MICS:2015>IEC 61850-7-4:2003
MaxVVa	ABBIED600_Rev3_MV_simple_i_e	Maximum unbalance deviation value	E	REx620 MICS:2015>IEC 61850-7-4:2003
VVaTm	ABBIED600_Rev3_MV_simple_i_e	Duration of newest high mean unbalance voltage alarm	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.43 LN: QVU2RQRC1 Name: RQRC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_INC_Mod_On_ED1_e	Mode	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only
Beh	ABBIED600_Rev2_INS_beh_ED1_e	Behaviour	E	REx620 MICS:2015>IEC 61850-7-4:2003
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_lnNs_1_e	Name Plate	E	REx620 MICS:2015>IEC 61850-7-4:2003
MaxVVa	ABBIED600_Rev3_MV_simple_i_e	Maximum unbalance deviation value	E	REx620 MICS:2015>IEC 61850-7-4:2003
VVaTm	ABBIED600_Rev3_MV_simple_i_e	Duration of second newest high mean un-balance Volt alarm	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.44 LN: QVU3RQRC1 Name: RQRC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_INC_Mod_On_ED1_e	Mode	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only
Beh	ABBIED600_Rev2_INS_beh_ED1_e	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_lnNs_1_e	Name Plate		
MaxVVa	ABBIED600_Rev3_MV_simple_i_e	Maximum unbalance deviation value		
VVaTm	ABBIED600_Rev3_MV_simple_i_e	Duration of third new-est high mean unbal-ance Volt alarm		

6.1.45 LN: TPGAPC1 Name: GAPC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Str		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Op		ED1 only
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
SPCSO1	ABBIED600_Rev1_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple	Q2		status-only
PlsTmms	ABBIED600_Rev1_ING_SP_1_e	Minimum pulse time		

6.1.46 LN: TPGAPC2 Name: GAPC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Str		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Op		ED1 only
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
SPCSO1	ABBIED600_Rev1_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple	Q2		status-only
PlsTmms	ABBIED600_Rev1_ING_SP_1_e	Minimum pulse time		

6.1.47 LN: TPGAPC3 Name: GAPC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Str		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Op		ED1 only
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
SPCSO1	ABBIED600_Rev1_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple	Q2		status-only
PlsTmms	ABBIED600_Rev1_ING_SP_1_e	Minimum pulse time		

6.1.48 LN: TPGAPC4 Name: GAPC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Str		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Op		ED1 only
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
SPCSO1	ABBIED600_Rev1_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple	Q2		status-only
PlsTmms	ABBIED600_Rev1_ING_SP_1_e	Minimum pulse time		

6.1.49 LN: TPSGAPC1 Name: GAPC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Op		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Op		ED1 only
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
SPCSO1	ABBIED600_Rev1_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple	Q2		status-only
PlsTms	ABBIED600_Rev1_ING_SP_1_e	Minimum pulse time	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.50 LN: TPSGAPC2 Name: GAPC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Str		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Op		ED1 only
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
SPCSO1	ABBIED600_Rev1_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple	Q2		status-only
PlsTms	ABBIED600_Rev1_ING_SP_1_e	Minimum pulse time	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.51 LN: TPMGAPC1 Name: GAPC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Str		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Op		ED1 only
Ind1	ABBIED600_Rev1_SPS	IN1		

Ind2	ABBIED600_Rev1_SPS	IN2		
SPCSO1	ABBIED600_Rev1_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple	Q2		status-only
PlsTmm	ABBIED600_Rev1_ING_SP_1_e	Minimum pulse time	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.52 LN: TPMGAPC2 Name: GAPC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Str		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Op		ED1 only
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
SPCSO1	ABBIED600_Rev1_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple	Q2		status-only
PlsTmm	ABBIED600_Rev1_ING_SP_1_e	Minimum pulse time	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.53 LN: PTGAPC1 Name: GAPC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Start		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Operate		ED1 only
Ind1	ABBIED600_Rev1_SPS	Input 1		
Ind2	ABBIED600_Rev1_SPS	Input 2		
Ind3	ABBIED600_Rev1_SPS	Input 3		
Ind4	ABBIED600_Rev1_SPS	Input 4		
Ind5	ABBIED600_Rev1_SPS	Input 5		
Ind6	ABBIED600_Rev1_SPS	Input 6		
Ind7	ABBIED600_Rev1_SPS	Input 7		
Ind8	ABBIED600_Rev1_SPS	Input 8		
SPCSO1	ABBIED600_Rev1_SPC_simple	Output 1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple	Output 2		status-only
SPCSO3	ABBIED600_Rev1_SPC_simple	Output 3		status-only
SPCSO4	ABBIED600_Rev1_SPC_simple	Output 4		status-only
SPCSO5	ABBIED600_Rev1_SPC_simple	Output 5		status-only

SPCSO6	ABBIED600_Rev1_SPC_simple	Output 6		status-only
SPCSO7	ABBIED600_Rev1_SPC_simple	Output 7		status-only
SPCSO8	ABBIED600_Rev1_SPC_simple	Output 8		status-only
PlsTmms1	ABBIED600_Rev1_ING_SP_e	Pulse time 1		
PlsTmms2	ABBIED600_Rev1_ING_SP_e	Pulse time 2		
PlsTmms3	ABBIED600_Rev1_ING_SP_e	Pulse time 3		
PlsTmms4	ABBIED600_Rev1_ING_SP_e	Pulse time 4		
PlsTmms5	ABBIED600_Rev1_ING_SP_e	Pulse time 5		
PlsTmms6	ABBIED600_Rev1_ING_SP_e	Pulse time 6		
PlsTmms7	ABBIED600_Rev1_ING_SP_e	Pulse time 7		
PlsTmms8	ABBIED600_Rev1_ING_SP_e	Pulse time 8		

6.1.54 LN: PTGAPC2 Name: GAPC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Start		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Operate		ED1 only
Ind1	ABBIED600_Rev1_SPS	Input 1		
Ind2	ABBIED600_Rev1_SPS	Input 2		
Ind3	ABBIED600_Rev1_SPS	Input 3		
Ind4	ABBIED600_Rev1_SPS	Input 4		
Ind5	ABBIED600_Rev1_SPS	Input 5		
Ind6	ABBIED600_Rev1_SPS	Input 6		
Ind7	ABBIED600_Rev1_SPS	Input 7		
Ind8	ABBIED600_Rev1_SPS	Input 8		
SPCSO1	ABBIED600_Rev1_SPC_simple	Output 1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple	Output 2		status-only
SPCSO3	ABBIED600_Rev1_SPC_simple	Output 3		status-only
SPCSO4	ABBIED600_Rev1_SPC_simple	Output 4		status-only
SPCSO5	ABBIED600_Rev1_SPC_simple	Output 5		status-only
SPCSO6	ABBIED600_Rev1_SPC_simple	Output 6		status-only
SPCSO7	ABBIED600_Rev1_SPC_simple	Output 7		status-only
SPCSO8	ABBIED600_Rev1_SPC_simple	Output 8		status-only
PlsTmms1	ABBIED600_Rev1_ING_SP_e	Pulse time 1		
PlsTmms2	ABBIED600_Rev1_ING_SP_e	Pulse time 2		
PlsTmms3	ABBIED600_Rev1_ING_SP_e	Pulse time 3		
PlsTmms4	ABBIED600_Rev1_ING_SP_e	Pulse time 4		
PlsTmms5	ABBIED600_Rev1_ING_SP_e	Pulse time 5		
PlsTmms6	ABBIED600_Rev1_ING_SP_e	Pulse time 6		

PlsTmms7	ABBIED600_Rev1_ING_SP_e	Pulse time 7		
PlsTmms8	ABBIED600_Rev1_ING_SP_e	Pulse time 8		

6.1.55 LN: TOFGAPC1 Name: GAPC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Start		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Operate		ED1 only
Ind1	ABBIED600_Rev1_SPS	Input 1		
Ind2	ABBIED600_Rev1_SPS	Input 2		
Ind3	ABBIED600_Rev1_SPS	Input 3		
Ind4	ABBIED600_Rev1_SPS	Input 4		
Ind5	ABBIED600_Rev1_SPS	Input 5		
Ind6	ABBIED600_Rev1_SPS	Input 6		
Ind7	ABBIED600_Rev1_SPS	Input 7		
Ind8	ABBIED600_Rev1_SPS	Input 8		
SPCSO1	ABBIED600_Rev1_SPC_simple	Output 1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple	Output 2		status-only
SPCSO3	ABBIED600_Rev1_SPC_simple	Output 3		status-only
SPCSO4	ABBIED600_Rev1_SPC_simple	Output 4		status-only
SPCSO5	ABBIED600_Rev1_SPC_simple	Output 5		status-only
SPCSO6	ABBIED600_Rev1_SPC_simple	Output 6		status-only
SPCSO7	ABBIED600_Rev1_SPC_simple	Output 7		status-only
SPCSO8	ABBIED600_Rev1_SPC_simple	Output 8		status-only
OffDlTmms1	ABBIED600_Rev1_ING_SP_e	Off delay time 1	E	REx620 MICS:2015>IEC 61850-7-4:2003
OffDlTmms2	ABBIED600_Rev1_ING_SP_e	Off delay time 2	E	REx620 MICS:2015>IEC 61850-7-4:2003
OffDlTmms3	ABBIED600_Rev1_ING_SP_e	Off delay time 3	E	REx620 MICS:2015>IEC 61850-7-4:2003
OffDlTmms4	ABBIED600_Rev1_ING_SP_e	Off delay time 4	E	REx620 MICS:2015>IEC 61850-7-4:2003
OffDlTmms5	ABBIED600_Rev1_ING_SP_e	Off delay time 5	E	REx620 MICS:2015>IEC 61850-7-4:2003
OffDlTmms6	ABBIED600_Rev1_ING_SP_e	Off delay time 6	E	REx620 MICS:2015>IEC 61850-7-4:2003
OffDlTmms7	ABBIED600_Rev1_ING_SP_e	Off delay time 7	E	REx620 MICS:2015>IEC 61850-7-4:2003
OffDlTmms8	ABBIED600_Rev1_ING_SP_e	Off delay time 8	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.56 LN: TOFGAPC2 Name: GAPC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Start		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Operate		ED1 only
Ind1	ABBIED600_Rev1_SPS	Input 1		
Ind2	ABBIED600_Rev1_SPS	Input 2		
Ind3	ABBIED600_Rev1_SPS	Input 3		
Ind4	ABBIED600_Rev1_SPS	Input 4		
Ind5	ABBIED600_Rev1_SPS	Input 5		
Ind6	ABBIED600_Rev1_SPS	Input 6		
Ind7	ABBIED600_Rev1_SPS	Input 7		
Ind8	ABBIED600_Rev1_SPS	Input 8		
SPCSO1	ABBIED600_Rev1_SPC_simple	Output 1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple	Output 2		status-only
SPCSO3	ABBIED600_Rev1_SPC_simple	Output 3		status-only
SPCSO4	ABBIED600_Rev1_SPC_simple	Output 4		status-only
SPCSO5	ABBIED600_Rev1_SPC_simple	Output 5		status-only
SPCSO6	ABBIED600_Rev1_SPC_simple	Output 6		status-only
SPCSO7	ABBIED600_Rev1_SPC_simple	Output 7		status-only
SPCSO8	ABBIED600_Rev1_SPC_simple	Output 8		status-only
OffDlTmms1	ABBIED600_Rev1_ING_SP_e	Off delay time 1	E	REx620 MICS:2015>IEC 61850-7-4:2003
OffDlTmms2	ABBIED600_Rev1_ING_SP_e	Off delay time 2	E	REx620 MICS:2015>IEC 61850-7-4:2003
OffDlTmms3	ABBIED600_Rev1_ING_SP_e	Off delay time 3	E	REx620 MICS:2015>IEC 61850-7-4:2003
OffDlTmms4	ABBIED600_Rev1_ING_SP_e	Off delay time 4	E	REx620 MICS:2015>IEC 61850-7-4:2003
OffDlTmms5	ABBIED600_Rev1_ING_SP_e	Off delay time 5	E	REx620 MICS:2015>IEC 61850-7-4:2003
OffDlTmms6	ABBIED600_Rev1_ING_SP_e	Off delay time 6	E	REx620 MICS:2015>IEC 61850-7-4:2003
OffDlTmms7	ABBIED600_Rev1_ING_SP_e	Off delay time 7	E	REx620 MICS:2015>IEC 61850-7-4:2003
OffDlTmms8	ABBIED600_Rev1_ING_SP_e	Off delay time 8	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.57 LN: TOFGAPC3 Name: GAPC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

Mod	AB-BIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Start		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Operate		ED1 only
Ind1	ABBIED600_Rev1_SPS	Input 1		
Ind2	ABBIED600_Rev1_SPS	Input 2		
Ind3	ABBIED600_Rev1_SPS	Input 3		
Ind4	ABBIED600_Rev1_SPS	Input 4		
Ind5	ABBIED600_Rev1_SPS	Input 5		
Ind6	ABBIED600_Rev1_SPS	Input 6		
Ind7	ABBIED600_Rev1_SPS	Input 7		
Ind8	ABBIED600_Rev1_SPS	Input 8		
SPCSO1	ABBIED600_Rev1_SPC_simple	Output 1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple	Output 2		status-only
SPCSO3	ABBIED600_Rev1_SPC_simple	Output 3		status-only
SPCSO4	ABBIED600_Rev1_SPC_simple	Output 4		status-only
SPCSO5	ABBIED600_Rev1_SPC_simple	Output 5		status-only
SPCSO6	ABBIED600_Rev1_SPC_simple	Output 6		status-only
SPCSO7	ABBIED600_Rev1_SPC_simple	Output 7		status-only
SPCSO8	ABBIED600_Rev1_SPC_simple	Output 8		status-only
OffDlTmms1	ABBIED600_Rev1_ING_SP_e	Off delay time 1	E	REx620 MICS:2015>IEC 61850-7-4:2003
OffDlTmms2	ABBIED600_Rev1_ING_SP_e	Off delay time 2	E	REx620 MICS:2015>IEC 61850-7-4:2003
OffDlTmms3	ABBIED600_Rev1_ING_SP_e	Off delay time 3	E	REx620 MICS:2015>IEC 61850-7-4:2003
OffDlTmms4	ABBIED600_Rev1_ING_SP_e	Off delay time 4	E	REx620 MICS:2015>IEC 61850-7-4:2003
OffDlTmms5	ABBIED600_Rev1_ING_SP_e	Off delay time 5	E	REx620 MICS:2015>IEC 61850-7-4:2003
OffDlTmms6	ABBIED600_Rev1_ING_SP_e	Off delay time 6	E	REx620 MICS:2015>IEC 61850-7-4:2003
OffDlTmms7	ABBIED600_Rev1_ING_SP_e	Off delay time 7	E	REx620 MICS:2015>IEC 61850-7-4:2003
OffDlTmms8	ABBIED600_Rev1_ING_SP_e	Off delay time 8	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.58 LN: TOFGAPC4 Name: GAPC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		

Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Start		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Operate		ED1 only
Ind1	ABBIED600_Rev1_SPS	Input 1		
Ind2	ABBIED600_Rev1_SPS	Input 2		
Ind3	ABBIED600_Rev1_SPS	Input 3		
Ind4	ABBIED600_Rev1_SPS	Input 4		
Ind5	ABBIED600_Rev1_SPS	Input 5		
Ind6	ABBIED600_Rev1_SPS	Input 6		
Ind7	ABBIED600_Rev1_SPS	Input 7		
Ind8	ABBIED600_Rev1_SPS	Input 8		
SPCSO1	ABBIED600_Rev1_SPC_simple	Output 1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple	Output 2		status-only
SPCSO3	ABBIED600_Rev1_SPC_simple	Output 3		status-only
SPCSO4	ABBIED600_Rev1_SPC_simple	Output 4		status-only
SPCSO5	ABBIED600_Rev1_SPC_simple	Output 5		status-only
SPCSO6	ABBIED600_Rev1_SPC_simple	Output 6		status-only
SPCSO7	ABBIED600_Rev1_SPC_simple	Output 7		status-only
SPCSO8	ABBIED600_Rev1_SPC_simple	Output 8		status-only
OffDlTmms1	ABBIED600_Rev1_ING_SP_e	Off delay time 1	E	REx620 MICS:2015>IEC 61850-7-4:2003
OffDlTmms2	ABBIED600_Rev1_ING_SP_e	Off delay time 2	E	REx620 MICS:2015>IEC 61850-7-4:2003
OffDlTmms3	ABBIED600_Rev1_ING_SP_e	Off delay time 3	E	REx620 MICS:2015>IEC 61850-7-4:2003
OffDlTmms4	ABBIED600_Rev1_ING_SP_e	Off delay time 4	E	REx620 MICS:2015>IEC 61850-7-4:2003
OffDlTmms5	ABBIED600_Rev1_ING_SP_e	Off delay time 5	E	REx620 MICS:2015>IEC 61850-7-4:2003
OffDlTmms6	ABBIED600_Rev1_ING_SP_e	Off delay time 6	E	REx620 MICS:2015>IEC 61850-7-4:2003
OffDlTmms7	ABBIED600_Rev1_ING_SP_e	Off delay time 7	E	REx620 MICS:2015>IEC 61850-7-4:2003
OffDlTmms8	ABBIED600_Rev1_ING_SP_e	Off delay time 8	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.59 LN: TONGAPC1 Name: GAPC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only

Str	ABBIED600_Rev1_ACD_simple	Start		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Operate		ED1 only
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
Ind3	ABBIED600_Rev1_SPS	IN3		
Ind4	ABBIED600_Rev1_SPS	IN4		
Ind5	ABBIED600_Rev1_SPS	IN5		
Ind6	ABBIED600_Rev1_SPS	IN6		
Ind7	ABBIED600_Rev1_SPS	IN7		
Ind8	ABBIED600_Rev1_SPS	IN8		
SPCSO1	ABBIED600_Rev1_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple	Q2		status-only
SPCSO3	ABBIED600_Rev1_SPC_simple	Q3		status-only
SPCSO4	ABBIED600_Rev1_SPC_simple	Q4		status-only
SPCSO5	ABBIED600_Rev1_SPC_simple	Q5		status-only
SPCSO6	ABBIED600_Rev1_SPC_simple	Q6		status-only
SPCSO7	ABBIED600_Rev1_SPC_simple	Q7		status-only
SPCSO8	ABBIED600_Rev1_SPC_simple	Q8		status-only
OnDlTmms1	ABBIED600_Rev1_ING_SP_e	On delay time 1	E	REx620 MICS:2015>IEC 61850-7-4:2003
OnDlTmms2	ABBIED600_Rev1_ING_SP_e	On delay time 2	E	REx620 MICS:2015>IEC 61850-7-4:2003
OnDlTmms3	ABBIED600_Rev1_ING_SP_e	On delay time 3	E	REx620 MICS:2015>IEC 61850-7-4:2003
OnDlTmms4	ABBIED600_Rev1_ING_SP_e	On delay time 4	E	REx620 MICS:2015>IEC 61850-7-4:2003
OnDlTmms5	ABBIED600_Rev1_ING_SP_e	On delay time 5	E	REx620 MICS:2015>IEC 61850-7-4:2003
OnDlTmms6	ABBIED600_Rev1_ING_SP_e	On delay time 6	E	REx620 MICS:2015>IEC 61850-7-4:2003
OnDlTmms7	ABBIED600_Rev1_ING_SP_e	On delay time 7	E	REx620 MICS:2015>IEC 61850-7-4:2003
OnDlTmms8	ABBIED600_Rev1_ING_SP_e	On delay time 8	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.60 LN: TONGAPC2 Name: GAPC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Start		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Operate		ED1 only

Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
Ind3	ABBIED600_Rev1_SPS	IN3		
Ind4	ABBIED600_Rev1_SPS	IN4		
Ind5	ABBIED600_Rev1_SPS	IN5		
Ind6	ABBIED600_Rev1_SPS	IN6		
Ind7	ABBIED600_Rev1_SPS	IN7		
Ind8	ABBIED600_Rev1_SPS	IN8		
SPCSO1	ABBIED600_Rev1_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple	Q2		status-only
SPCSO3	ABBIED600_Rev1_SPC_simple	Q3		status-only
SPCSO4	ABBIED600_Rev1_SPC_simple	Q4		status-only
SPCSO5	ABBIED600_Rev1_SPC_simple	Q5		status-only
SPCSO6	ABBIED600_Rev1_SPC_simple	Q6		status-only
SPCSO7	ABBIED600_Rev1_SPC_simple	Q7		status-only
SPCSO8	ABBIED600_Rev1_SPC_simple	Q8		status-only
OnDlTmms1	ABBIED600_Rev1_ING_SP_e	On delay time 1	E	REx620 MICS:2015>IEC 61850-7-4:2003
OnDlTmms2	ABBIED600_Rev1_ING_SP_e	On delay time 2	E	REx620 MICS:2015>IEC 61850-7-4:2003
OnDlTmms3	ABBIED600_Rev1_ING_SP_e	On delay time 3	E	REx620 MICS:2015>IEC 61850-7-4:2003
OnDlTmms4	ABBIED600_Rev1_ING_SP_e	On delay time 4	E	REx620 MICS:2015>IEC 61850-7-4:2003
OnDlTmms5	ABBIED600_Rev1_ING_SP_e	On delay time 5	E	REx620 MICS:2015>IEC 61850-7-4:2003
OnDlTmms6	ABBIED600_Rev1_ING_SP_e	On delay time 6	E	REx620 MICS:2015>IEC 61850-7-4:2003
OnDlTmms7	ABBIED600_Rev1_ING_SP_e	On delay time 7	E	REx620 MICS:2015>IEC 61850-7-4:2003
OnDlTmms8	ABBIED600_Rev1_ING_SP_e	On delay time 8	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.61 LN: TONGAPC3 Name: GAPC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Start		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Operate		ED1 only
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		

Ind3	ABBIED600_Rev1_SPS	IN3		
Ind4	ABBIED600_Rev1_SPS	IN4		
Ind5	ABBIED600_Rev1_SPS	IN5		
Ind6	ABBIED600_Rev1_SPS	IN6		
Ind7	ABBIED600_Rev1_SPS	IN7		
Ind8	ABBIED600_Rev1_SPS	IN8		
SPCSO1	ABBIED600_Rev1_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple	Q2		status-only
SPCSO3	ABBIED600_Rev1_SPC_simple	Q3		status-only
SPCSO4	ABBIED600_Rev1_SPC_simple	Q4		status-only
SPCSO5	ABBIED600_Rev1_SPC_simple	Q5		status-only
SPCSO6	ABBIED600_Rev1_SPC_simple	Q6		status-only
SPCSO7	ABBIED600_Rev1_SPC_simple	Q7		status-only
SPCSO8	ABBIED600_Rev1_SPC_simple	Q8		status-only
OnDlTmms1	ABBIED600_Rev1_ING_SP_e	On delay time 1	E	REx620 MICS:2015>IEC 61850-7-4:2003
OnDlTmms2	ABBIED600_Rev1_ING_SP_e	On delay time 2	E	REx620 MICS:2015>IEC 61850-7-4:2003
OnDlTmms3	ABBIED600_Rev1_ING_SP_e	On delay time 3	E	REx620 MICS:2015>IEC 61850-7-4:2003
OnDlTmms4	ABBIED600_Rev1_ING_SP_e	On delay time 4	E	REx620 MICS:2015>IEC 61850-7-4:2003
OnDlTmms5	ABBIED600_Rev1_ING_SP_e	On delay time 5	E	REx620 MICS:2015>IEC 61850-7-4:2003
OnDlTmms6	ABBIED600_Rev1_ING_SP_e	On delay time 6	E	REx620 MICS:2015>IEC 61850-7-4:2003
OnDlTmms7	ABBIED600_Rev1_ING_SP_e	On delay time 7	E	REx620 MICS:2015>IEC 61850-7-4:2003
OnDlTmms8	ABBIED600_Rev1_ING_SP_e	On delay time 8	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.62 LN: TONGAPC4 Name: GAPC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Start		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Operate		ED1 only
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
Ind3	ABBIED600_Rev1_SPS	IN3		
Ind4	ABBIED600_Rev1_SPS	IN4		

Ind5	ABBIED600_Rev1_SPS	IN5		
Ind6	ABBIED600_Rev1_SPS	IN6		
Ind7	ABBIED600_Rev1_SPS	IN7		
Ind8	ABBIED600_Rev1_SPS	IN8		
SPCSO1	ABBIED600_Rev1_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple	Q2		status-only
SPCSO3	ABBIED600_Rev1_SPC_simple	Q3		status-only
SPCSO4	ABBIED600_Rev1_SPC_simple	Q4		status-only
SPCSO5	ABBIED600_Rev1_SPC_simple	Q5		status-only
SPCSO6	ABBIED600_Rev1_SPC_simple	Q6		status-only
SPCSO7	ABBIED600_Rev1_SPC_simple	Q7		status-only
SPCSO8	ABBIED600_Rev1_SPC_simple	Q8		status-only
OnDlTmms1	ABBIED600_Rev1_ING_SP_e	On delay time 1	E	REx620 MICS:2015>IEC 61850-7-4:2003
OnDlTmms2	ABBIED600_Rev1_ING_SP_e	On delay time 2	E	REx620 MICS:2015>IEC 61850-7-4:2003
OnDlTmms3	ABBIED600_Rev1_ING_SP_e	On delay time 3	E	REx620 MICS:2015>IEC 61850-7-4:2003
OnDlTmms4	ABBIED600_Rev1_ING_SP_e	On delay time 4	E	REx620 MICS:2015>IEC 61850-7-4:2003
OnDlTmms5	ABBIED600_Rev1_ING_SP_e	On delay time 5	E	REx620 MICS:2015>IEC 61850-7-4:2003
OnDlTmms6	ABBIED600_Rev1_ING_SP_e	On delay time 6	E	REx620 MICS:2015>IEC 61850-7-4:2003
OnDlTmms7	ABBIED600_Rev1_ING_SP_e	On delay time 7	E	REx620 MICS:2015>IEC 61850-7-4:2003
OnDlTmms8	ABBIED600_Rev1_ING_SP_e	On delay time 8	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.63 LN: SRGAPC1 Name: GAPC (ED1)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behav-iour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Start		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Operate		ED1 only
Ind1	ABBIED600_Rev1_SPS	S1		
Ind2	ABBIED600_Rev1_SPS	S2		
Ind3	ABBIED600_Rev1_SPS	S3		
Ind4	ABBIED600_Rev1_SPS	S4		
Ind5	ABBIED600_Rev1_SPS	S5		

Ind6	ABBIED600_Rev1_SPS	S6		
Ind7	ABBIED600_Rev1_SPS	S7		
Ind8	ABBIED600_Rev1_SPS	S8		
SPCSO1	ABBIED600_Rev1_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple	Q2		status-only
SPCSO3	ABBIED600_Rev1_SPC_simple	Q3		status-only
SPCSO4	ABBIED600_Rev1_SPC_simple	Q4		status-only
SPCSO5	ABBIED600_Rev1_SPC_simple	Q5		status-only
SPCSO6	ABBIED600_Rev1_SPC_simple	Q6		status-only
SPCSO7	ABBIED600_Rev1_SPC_simple	Q7		status-only
SPCSO8	ABBIED600_Rev1_SPC_simple	Q8		status-only
Rs1	ABBIED600_Rev2_SPC_control_e	R1	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Rs2	ABBIED600_Rev2_SPC_control_e	R2	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Rs3	ABBIED600_Rev2_SPC_control_e	R3	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Rs4	ABBIED600_Rev2_SPC_control_e	R4	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Rs5	ABBIED600_Rev2_SPC_control_e	R5	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Rs6	ABBIED600_Rev2_SPC_control_e	R6	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Rs7	ABBIED600_Rev2_SPC_control_e	R7	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Rs8	ABBIED600_Rev2_SPC_control_e	R8	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.1.64 LN: SRGAPC2 Name: GAPC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Start		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Operate		ED1 only

Ind1	ABBIED600_Rev1_SPS	S1		
Ind2	ABBIED600_Rev1_SPS	S2		
Ind3	ABBIED600_Rev1_SPS	S3		
Ind4	ABBIED600_Rev1_SPS	S4		
Ind5	ABBIED600_Rev1_SPS	S5		
Ind6	ABBIED600_Rev1_SPS	S6		
Ind7	ABBIED600_Rev1_SPS	S7		
Ind8	ABBIED600_Rev1_SPS	S8		
SPCSO1	ABBIED600_Rev1_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple	Q2		status-only
SPCSO3	ABBIED600_Rev1_SPC_simple	Q3		status-only
SPCSO4	ABBIED600_Rev1_SPC_simple	Q4		status-only
SPCSO5	ABBIED600_Rev1_SPC_simple	Q5		status-only
SPCSO6	ABBIED600_Rev1_SPC_simple	Q6		status-only
SPCSO7	ABBIED600_Rev1_SPC_simple	Q7		status-only
SPCSO8	ABBIED600_Rev1_SPC_simple	Q8		status-only
Rs1	ABBIED600_Rev2_SPC_control_e	R1	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Rs2	ABBIED600_Rev2_SPC_control_e	R2	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Rs3	ABBIED600_Rev2_SPC_control_e	R3	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Rs4	ABBIED600_Rev2_SPC_control_e	R4	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Rs5	ABBIED600_Rev2_SPC_control_e	R5	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Rs6	ABBIED600_Rev2_SPC_control_e	R6	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Rs7	ABBIED600_Rev2_SPC_control_e	R7	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Rs8	ABBIED600_Rev2_SPC_control_e	R8	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.1.65 LN: SRGAPC3 Name: GAPC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		

Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Start		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Operate		ED1 only
Ind1	ABBIED600_Rev1_SPS	S1		
Ind2	ABBIED600_Rev1_SPS	S2		
Ind3	ABBIED600_Rev1_SPS	S3		
Ind4	ABBIED600_Rev1_SPS	S4		
Ind5	ABBIED600_Rev1_SPS	S5		
Ind6	ABBIED600_Rev1_SPS	S6		
Ind7	ABBIED600_Rev1_SPS	S7		
Ind8	ABBIED600_Rev1_SPS	S8		
SPCSO1	ABBIED600_Rev1_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple	Q2		status-only
SPCSO3	ABBIED600_Rev1_SPC_simple	Q3		status-only
SPCSO4	ABBIED600_Rev1_SPC_simple	Q4		status-only
SPCSO5	ABBIED600_Rev1_SPC_simple	Q5		status-only
SPCSO6	ABBIED600_Rev1_SPC_simple	Q6		status-only
SPCSO7	ABBIED600_Rev1_SPC_simple	Q7		status-only
SPCSO8	ABBIED600_Rev1_SPC_simple	Q8		status-only
Rs1	ABBIED600_Rev2_SPC_control_e	R1	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Rs2	ABBIED600_Rev2_SPC_control_e	R2	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Rs3	ABBIED600_Rev2_SPC_control_e	R3	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Rs4	ABBIED600_Rev2_SPC_control_e	R4	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Rs5	ABBIED600_Rev2_SPC_control_e	R5	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Rs6	ABBIED600_Rev2_SPC_control_e	R6	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Rs7	ABBIED600_Rev2_SPC_control_e	R7	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Rs8	ABBIED600_Rev2_SPC_control_e	R8	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.1.66 LN: SRGAPC4 Name: GAPC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Start		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Operate		ED1 only
Ind1	ABBIED600_Rev1_SPS	S1		
Ind2	ABBIED600_Rev1_SPS	S2		
Ind3	ABBIED600_Rev1_SPS	S3		
Ind4	ABBIED600_Rev1_SPS	S4		
Ind5	ABBIED600_Rev1_SPS	S5		
Ind6	ABBIED600_Rev1_SPS	S6		
Ind7	ABBIED600_Rev1_SPS	S7		
Ind8	ABBIED600_Rev1_SPS	S8		
SPCSO1	ABBIED600_Rev1_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple	Q2		status-only
SPCSO3	ABBIED600_Rev1_SPC_simple	Q3		status-only
SPCSO4	ABBIED600_Rev1_SPC_simple	Q4		status-only
SPCSO5	ABBIED600_Rev1_SPC_simple	Q5		status-only
SPCSO6	ABBIED600_Rev1_SPC_simple	Q6		status-only
SPCSO7	ABBIED600_Rev1_SPC_simple	Q7		status-only
SPCSO8	ABBIED600_Rev1_SPC_simple	Q8		status-only
Rs1	ABBIED600_Rev2_SPC_control_e	R1	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Rs2	ABBIED600_Rev2_SPC_control_e	R2	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Rs3	ABBIED600_Rev2_SPC_control_e	R3	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Rs4	ABBIED600_Rev2_SPC_control_e	R4	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Rs5	ABBIED600_Rev2_SPC_control_e	R5	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Rs6	ABBIED600_Rev2_SPC_control_e	R6	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

Rs7	ABBIED600_Rev2_SPC_control_e	R7	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Rs8	ABBIED600_Rev2_SPC_control_e	R8	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.1.67 LN: MVGAPC1 Name: GAPC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Start		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Operate		ED1 only
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
Ind3	ABBIED600_Rev1_SPS	IN3		
Ind4	ABBIED600_Rev1_SPS	IN4		
Ind5	ABBIED600_Rev1_SPS	IN5		
Ind6	ABBIED600_Rev1_SPS	IN6		
Ind7	ABBIED600_Rev1_SPS	IN7		
Ind8	ABBIED600_Rev1_SPS	IN8		
SPCSO1	ABBIED600_Rev1_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple	Q2		status-only
SPCSO3	ABBIED600_Rev1_SPC_simple	Q3		status-only
SPCSO4	ABBIED600_Rev1_SPC_simple	Q4		status-only
SPCSO5	ABBIED600_Rev1_SPC_simple	Q5		status-only
SPCSO6	ABBIED600_Rev1_SPC_simple	Q6		status-only
SPCSO7	ABBIED600_Rev1_SPC_simple	Q7		status-only
SPCSO8	ABBIED600_Rev1_SPC_simple	Q8		status-only

6.1.68 LN: MVGAPC2 Name: GAPC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Start		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Operate		ED1 only
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
Ind3	ABBIED600_Rev1_SPS	IN3		
Ind4	ABBIED600_Rev1_SPS	IN4		

Ind5	ABBIED600_Rev1_SPS	IN5		
Ind6	ABBIED600_Rev1_SPS	IN6		
Ind7	ABBIED600_Rev1_SPS	IN7		
Ind8	ABBIED600_Rev1_SPS	IN8		
SPCSO1	ABBIED600_Rev1_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple	Q2		status-only
SPCSO3	ABBIED600_Rev1_SPC_simple	Q3		status-only
SPCSO4	ABBIED600_Rev1_SPC_simple	Q4		status-only
SPCSO5	ABBIED600_Rev1_SPC_simple	Q5		status-only
SPCSO6	ABBIED600_Rev1_SPC_simple	Q6		status-only
SPCSO7	ABBIED600_Rev1_SPC_simple	Q7		status-only
SPCSO8	ABBIED600_Rev1_SPC_simple	Q8		status-only

6.1.69 LN: MVGAPC3 Name: GAPC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Start		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Operate		ED1 only
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
Ind3	ABBIED600_Rev1_SPS	IN3		
Ind4	ABBIED600_Rev1_SPS	IN4		
Ind5	ABBIED600_Rev1_SPS	IN5		
Ind6	ABBIED600_Rev1_SPS	IN6		
Ind7	ABBIED600_Rev1_SPS	IN7		
Ind8	ABBIED600_Rev1_SPS	IN8		
SPCSO1	ABBIED600_Rev1_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple	Q2		status-only
SPCSO3	ABBIED600_Rev1_SPC_simple	Q3		status-only
SPCSO4	ABBIED600_Rev1_SPC_simple	Q4		status-only
SPCSO5	ABBIED600_Rev1_SPC_simple	Q5		status-only
SPCSO6	ABBIED600_Rev1_SPC_simple	Q6		status-only
SPCSO7	ABBIED600_Rev1_SPC_simple	Q7		status-only
SPCSO8	ABBIED600_Rev1_SPC_simple	Q8		status-only

6.1.70 LN: MVGAPC4 Name: GAPC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only

NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Start		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Operate		ED1 only
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
Ind3	ABBIED600_Rev1_SPS	IN3		
Ind4	ABBIED600_Rev1_SPS	IN4		
Ind5	ABBIED600_Rev1_SPS	IN5		
Ind6	ABBIED600_Rev1_SPS	IN6		
Ind7	ABBIED600_Rev1_SPS	IN7		
Ind8	ABBIED600_Rev1_SPS	IN8		
SPCSO1	ABBIED600_Rev1_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple	Q2		status-only
SPCSO3	ABBIED600_Rev1_SPC_simple	Q3		status-only
SPCSO4	ABBIED600_Rev1_SPC_simple	Q4		status-only
SPCSO5	ABBIED600_Rev1_SPC_simple	Q5		status-only
SPCSO6	ABBIED600_Rev1_SPC_simple	Q6		status-only
SPCSO7	ABBIED600_Rev1_SPC_simple	Q7		status-only
SPCSO8	ABBIED600_Rev1_SPC_simple	Q8		status-only

6.1.71 LN: SPCGAPC1 Name: GAPC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
Ind3	ABBIED600_Rev1_SPS	IN3		
Ind4	ABBIED600_Rev1_SPS	IN4		
Ind5	ABBIED600_Rev1_SPS	IN5		
Ind6	ABBIED600_Rev1_SPS	IN6		
Ind7	ABBIED600_Rev1_SPS	IN7		
Ind8	ABBIED600_Rev1_SPS	IN8		
Ind9	ABBIED600_Rev1_SPS	IN9		
Ind10	ABBIED600_Rev1_SPS	IN10		
Ind11	ABBIED600_Rev1_SPS	IN11		
Ind12	ABBIED600_Rev1_SPS	IN12		
Ind13	ABBIED600_Rev1_SPS	IN13		

Ind14	ABBIED600_Rev1_SPS	IN14		
Ind15	ABBIED600_Rev1_SPS	IN15		
Ind16	ABBIED600_Rev1_SPS	IN16		
SPCSO1	ABBIED600_Rev6_SPC_pulse	Output 1		status-only,direct-with-normal-security
SPCSO2	ABBIED600_Rev6_SPC_pulse	Output 2		status-only,direct-with-normal-security
SPCSO3	ABBIED600_Rev6_SPC_pulse	Output 3		status-only,direct-with-normal-security
SPCSO4	ABBIED600_Rev6_SPC_pulse	Output 4		status-only,direct-with-normal-security
SPCSO5	ABBIED600_Rev6_SPC_pulse	Output 5		status-only,direct-with-normal-security
SPCSO6	ABBIED600_Rev6_SPC_pulse	Output 6		status-only,direct-with-normal-security
SPCSO7	ABBIED600_Rev6_SPC_pulse	Output 7		status-only,direct-with-normal-security
SPCSO8	ABBIED600_Rev6_SPC_pulse	Output 8		status-only,direct-with-normal-security
SPCSO9	ABBIED600_Rev6_SPC_pulse	Output 9		status-only,direct-with-normal-security
SPCSO10	ABBIED600_Rev6_SPC_pulse	Output 10		status-only,direct-with-normal-security
SPCSO11	ABBIED600_Rev6_SPC_pulse	Output 11		status-only,direct-with-normal-security
SPCSO12	ABBIED600_Rev6_SPC_pulse	Output 12		status-only,direct-with-normal-security
SPCSO13	ABBIED600_Rev6_SPC_pulse	Output 13		status-only,direct-with-normal-security
SPCSO14	ABBIED600_Rev6_SPC_pulse	Output 14		status-only,direct-with-normal-security
SPCSO15	ABBIED600_Rev6_SPC_pulse	Output 15		status-only,direct-with-normal-security
SPCSO16	ABBIED600_Rev6_SPC_pulse	Output 16		status-only,direct-with-normal-security
LocRemRst	ABBIED600_Rev1_SPG_SP_e	Loc Rem restriction	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.72 LN: SPCGAPC2 Name: GAPC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		

Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
Ind3	ABBIED600_Rev1_SPS	IN3		
Ind4	ABBIED600_Rev1_SPS	IN4		
Ind5	ABBIED600_Rev1_SPS	IN5		
Ind6	ABBIED600_Rev1_SPS	IN6		
Ind7	ABBIED600_Rev1_SPS	IN7		
Ind8	ABBIED600_Rev1_SPS	IN8		
Ind9	ABBIED600_Rev1_SPS	IN9		
Ind10	ABBIED600_Rev1_SPS	IN10		
Ind11	ABBIED600_Rev1_SPS	IN11		
Ind12	ABBIED600_Rev1_SPS	IN12		
Ind13	ABBIED600_Rev1_SPS	IN13		
Ind14	ABBIED600_Rev1_SPS	IN14		
Ind15	ABBIED600_Rev1_SPS	IN15		
Ind16	ABBIED600_Rev1_SPS	IN16		
SPCSO1	ABBIED600_Rev6_SPC_pulse	Output 1		status-only,direct-with-normal-security
SPCSO2	ABBIED600_Rev6_SPC_pulse	Output 2		status-only,direct-with-normal-security
SPCSO3	ABBIED600_Rev6_SPC_pulse	Output 3		status-only,direct-with-normal-security
SPCSO4	ABBIED600_Rev6_SPC_pulse	Output 4		status-only,direct-with-normal-security
SPCSO5	ABBIED600_Rev6_SPC_pulse	Output 5		status-only,direct-with-normal-security
SPCSO6	ABBIED600_Rev6_SPC_pulse	Output 6		status-only,direct-with-normal-security
SPCSO7	ABBIED600_Rev6_SPC_pulse	Output 7		status-only,direct-with-normal-security
SPCSO8	ABBIED600_Rev6_SPC_pulse	Output 8		status-only,direct-with-normal-security
SPCSO9	ABBIED600_Rev6_SPC_pulse	Output 9		status-only,direct-with-normal-security
SPCSO10	ABBIED600_Rev6_SPC_pulse	Output 10		status-only,direct-with-normal-security
SPCSO11	ABBIED600_Rev6_SPC_pulse	Output 11		status-only,direct-with-normal-security
SPCSO12	ABBIED600_Rev6_SPC_pulse	Output 12		status-only,direct-with-normal-security
SPCSO13	ABBIED600_Rev6_SPC_pulse	Output 13		status-only,direct-with-normal-security
SPCSO14	ABBIED600_Rev6_SPC_pulse	Output 14		status-only,direct-with-normal-security
SPCSO15	ABBIED600_Rev6_SPC_pulse	Output 15		status-only,direct-with-normal-security

SPCSO16	ABBIED600_Rev6_SPC_pulse	Output 16		status-only,direct-with-normal-security
LocRemRst	ABBIED600_Rev1_SPG_SP_e	Loc Rem restriction	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.73 LN: SPCGAPC3 Name: GAPC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
Ind3	ABBIED600_Rev1_SPS	IN3		
Ind4	ABBIED600_Rev1_SPS	IN4		
Ind5	ABBIED600_Rev1_SPS	IN5		
Ind6	ABBIED600_Rev1_SPS	IN6		
Ind7	ABBIED600_Rev1_SPS	IN7		
Ind8	ABBIED600_Rev1_SPS	IN8		
Ind9	ABBIED600_Rev1_SPS	IN9		
Ind10	ABBIED600_Rev1_SPS	IN10		
Ind11	ABBIED600_Rev1_SPS	IN11		
Ind12	ABBIED600_Rev1_SPS	IN12		
Ind13	ABBIED600_Rev1_SPS	IN13		
Ind14	ABBIED600_Rev1_SPS	IN14		
Ind15	ABBIED600_Rev1_SPS	IN15		
Ind16	ABBIED600_Rev1_SPS	IN16		
SPCSO1	ABBIED600_Rev6_SPC_pulse	Output 1		status-only,direct-with-normal-security
SPCSO2	ABBIED600_Rev6_SPC_pulse	Output 2		status-only,direct-with-normal-security
SPCSO3	ABBIED600_Rev6_SPC_pulse	Output 3		status-only,direct-with-normal-security
SPCSO4	ABBIED600_Rev6_SPC_pulse	Output 4		status-only,direct-with-normal-security
SPCSO5	ABBIED600_Rev6_SPC_pulse	Output 5		status-only,direct-with-normal-security
SPCSO6	ABBIED600_Rev6_SPC_pulse	Output 6		status-only,direct-with-normal-security
SPCSO7	ABBIED600_Rev6_SPC_pulse	Output 7		status-only,direct-with-normal-security

SPCSO8	ABBIED600_Rev6_SPC_pulse	Output 8		status-only,direct-with-normal-security
SPCSO9	ABBIED600_Rev6_SPC_pulse	Output 9		status-only,direct-with-normal-security
SPCSO10	ABBIED600_Rev6_SPC_pulse	Output 10		status-only,direct-with-normal-security
SPCSO11	ABBIED600_Rev6_SPC_pulse	Output 11		status-only,direct-with-normal-security
SPCSO12	ABBIED600_Rev6_SPC_pulse	Output 12		status-only,direct-with-normal-security
SPCSO13	ABBIED600_Rev6_SPC_pulse	Output 13		status-only,direct-with-normal-security
SPCSO14	ABBIED600_Rev6_SPC_pulse	Output 14		status-only,direct-with-normal-security
SPCSO15	ABBIED600_Rev6_SPC_pulse	Output 15		status-only,direct-with-normal-security
SPCSO16	ABBIED600_Rev6_SPC_pulse	Output 16		status-only,direct-with-normal-security
LocRemRst	ABBIED600_Rev1_SPG_SP_e	Loc Rem restriction	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.74 LN: SPCRGAPC1 Name: GAPC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
SPCSO1	ABBIED600_Rev6_SPC_pulse	Output 1		status-only,direct-with-normal-security
SPCSO2	ABBIED600_Rev6_SPC_pulse	Output 2		status-only,direct-with-normal-security
SPCSO3	ABBIED600_Rev6_SPC_pulse	Output 3		status-only,direct-with-normal-security
SPCSO4	ABBIED600_Rev6_SPC_pulse	Output 4		status-only,direct-with-normal-security
SPCSO5	ABBIED600_Rev6_SPC_pulse	Output 5		status-only,direct-with-normal-security
SPCSO6	ABBIED600_Rev6_SPC_pulse	Output 6		status-only,direct-with-normal-security
SPCSO7	ABBIED600_Rev6_SPC_pulse	Output 7		status-only,direct-with-normal-security
SPCSO8	ABBIED600_Rev6_SPC_pulse	Output 8		status-only,direct-with-normal-security
SPCSO9	ABBIED600_Rev6_SPC_pulse	Output 9		status-only,direct-with-normal-security

SPCSO10	ABBIED600_Rev6_SPC_pulse	Output 10		status-only,direct-with-normal-security
SPCSO11	ABBIED600_Rev6_SPC_pulse	Output 11		status-only,direct-with-normal-security
SPCSO12	ABBIED600_Rev6_SPC_pulse	Output 12		status-only,direct-with-normal-security
SPCSO13	ABBIED600_Rev6_SPC_pulse	Output 13		status-only,direct-with-normal-security
SPCSO14	ABBIED600_Rev6_SPC_pulse	Output 14		status-only,direct-with-normal-security
SPCSO15	ABBIED600_Rev6_SPC_pulse	Output 15		status-only,direct-with-normal-security
SPCSO16	ABBIED600_Rev6_SPC_pulse	Output 16		status-only,direct-with-normal-security
LocRemRst	ABBIED600_Rev1_SPG_SP_e	Loc Rem restriction	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.75 LN: SPCLGAPC1 Name: GAPC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
SPCSO1	ABBIED600_Rev6_SPC_pulse	Output 1		status-only,direct-with-normal-security
SPCSO2	ABBIED600_Rev6_SPC_pulse	Output 2		status-only,direct-with-normal-security
SPCSO3	ABBIED600_Rev6_SPC_pulse	Output 3		status-only,direct-with-normal-security
SPCSO4	ABBIED600_Rev6_SPC_pulse	Output 4		status-only,direct-with-normal-security
SPCSO5	ABBIED600_Rev6_SPC_pulse	Output 5		status-only,direct-with-normal-security
SPCSO6	ABBIED600_Rev6_SPC_pulse	Output 6		status-only,direct-with-normal-security
SPCSO7	ABBIED600_Rev6_SPC_pulse	Output 7		status-only,direct-with-normal-security
SPCSO8	ABBIED600_Rev6_SPC_pulse	Output 8		status-only,direct-with-normal-security
SPCSO9	ABBIED600_Rev6_SPC_pulse	Output 9		status-only,direct-with-normal-security
SPCSO10	ABBIED600_Rev6_SPC_pulse	Output 10		status-only,direct-with-normal-security
SPCSO11	ABBIED600_Rev6_SPC_pulse	Output 11		status-only,direct-with-normal-security

SPCSO12	ABBIED600_Rev6_SPC_pulse	Output 12		status-only,direct-with-normal-security
SPCSO13	ABBIED600_Rev6_SPC_pulse	Output 13		status-only,direct-with-normal-security
SPCSO14	ABBIED600_Rev6_SPC_pulse	Output 14		status-only,direct-with-normal-security
SPCSO15	ABBIED600_Rev6_SPC_pulse	Output 15		status-only,direct-with-normal-security
SPCSO16	ABBIED600_Rev6_SPC_pulse	Output 16		status-only,direct-with-normal-security
LocRemRst	ABBIED600_Rev1_SPG_SP_e	Loc Rem restriction	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.76 LN: UDFCNT1 Name: FCNT (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
InUpCnt	ABBIED600_Rev1_SPS_e	Input for up counting	E	REx620 MICS:2015>IEC 61850-7-4:2003
InDnCnt	ABBIED600_Rev1_SPS_e	Input for down counting	E	REx620 MICS:2015>IEC 61850-7-4:2003
CntLodVal	ABBIED600_Rev1_ING_SP_1_e	Preset counter value	E	REx620 MICS:2015>IEC 61850-7-4:2003
CntVal	ABBIED600_Rev2_BCR_1	Output of counter value		
UpCntSt	ABBIED600_Rev1_SPS_e	Status output of up counting	E	REx620 MICS:2015>IEC 61850-7-4:2003
DnCntSt	ABBIED600_Rev1_SPS_e	Status output of down counting	E	REx620 MICS:2015>IEC 61850-7-4:2003
CntRs	ABBIED600_Rev2_SPC_control_e	Resets the counter value	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
LodCnt	ABBIED600_Rev2_SPC_control_e	Load the counter to preset value	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.1.77 LN: UDFCNT2 Name: FCNT (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only

InUpCnt	ABBIED600_Rev1_SPS_e	Input for up counting	E	REx620 MICS:2015>IEC 61850-7-4:2003
InDnCnt	ABBIED600_Rev1_SPS_e	Input for down counting	E	REx620 MICS:2015>IEC 61850-7-4:2003
CntLodVal	ABBIED600_Rev1_ING_SP_1_e	Preset counter value	E	REx620 MICS:2015>IEC 61850-7-4:2003
CntVal	ABBIED600_Rev2_BCR_1	Output of counter value		
UpCntSt	ABBIED600_Rev1_SPS_e	Status output of up counting	E	REx620 MICS:2015>IEC 61850-7-4:2003
DnCntSt	ABBIED600_Rev1_SPS_e	Status output of down counting	E	REx620 MICS:2015>IEC 61850-7-4:2003
CntRs	ABBIED600_Rev2_SPC_control_e	Resets the counter value	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
LodCnt	ABBIED600_Rev2_SPC_control_e	Load the counter to preset value	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.1.78 LN: UDFCNT3 Name: FCNT (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
InUpCnt	ABBIED600_Rev1_SPS_e	Input for up counting	E	REx620 MICS:2015>IEC 61850-7-4:2003
InDnCnt	ABBIED600_Rev1_SPS_e	Input for down counting	E	REx620 MICS:2015>IEC 61850-7-4:2003
CntLodVal	ABBIED600_Rev1_ING_SP_1_e	Preset counter value	E	REx620 MICS:2015>IEC 61850-7-4:2003
CntVal	ABBIED600_Rev2_BCR_1	Output of counter value		
UpCntSt	ABBIED600_Rev1_SPS_e	Status output of up counting	E	REx620 MICS:2015>IEC 61850-7-4:2003
DnCntSt	ABBIED600_Rev1_SPS_e	Status output of down counting	E	REx620 MICS:2015>IEC 61850-7-4:2003
CntRs	ABBIED600_Rev2_SPC_control_e	Resets the counter value	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
LodCnt	ABBIED600_Rev2_SPC_control_e	Load the counter to preset value	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.1.79 LN: UDFCNT4 Name: FCNT (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
InUpCnt	ABBIED600_Rev1_SPS_e	Input for up counting	E	REx620 MICS:2015>IEC 61850-7-4:2003
InDnCnt	ABBIED600_Rev1_SPS_e	Input for down counting	E	REx620 MICS:2015>IEC 61850-7-4:2003
CntLodVal	ABBIED600_Rev1_ING_SP_1_e	Preset counter value	E	REx620 MICS:2015>IEC 61850-7-4:2003
CntVal	ABBIED600_Rev2_BCR_1	Output of counter value		
UpCntSt	ABBIED600_Rev1_SPS_e	Status output of up counting	E	REx620 MICS:2015>IEC 61850-7-4:2003
DnCntSt	ABBIED600_Rev1_SPS_e	Status output of down counting	E	REx620 MICS:2015>IEC 61850-7-4:2003
CntRs	ABBIED600_Rev2_SPC_control_e	Resets the counter value	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
LodCnt	ABBIED600_Rev2_SPC_control_e	Load the counter to preset value	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.1.80 LN: UDFCNT5 Name: FCNT (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
InUpCnt	ABBIED600_Rev1_SPS_e	Input for up counting	E	REx620 MICS:2015>IEC 61850-7-4:2003
InDnCnt	ABBIED600_Rev1_SPS_e	Input for down counting	E	REx620 MICS:2015>IEC 61850-7-4:2003
CntLodVal	ABBIED600_Rev1_ING_SP_1_e	Preset counter value	E	REx620 MICS:2015>IEC 61850-7-4:2003
CntVal	ABBIED600_Rev2_BCR_1	Output of counter value		
UpCntSt	ABBIED600_Rev1_SPS_e	Status output of up counting	E	REx620 MICS:2015>IEC 61850-7-4:2003
DnCntSt	ABBIED600_Rev1_SPS_e	Status output of down counting	E	REx620 MICS:2015>IEC 61850-7-4:2003

CntRs	ABBIED600_Rev2_SPC_control_e	Resets the counter value	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
LodCnt	ABBIED600_Rev2_SPC_control_e	Load the counter to preset value	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.1.81 LN: UDFCNT6 Name: FCNT (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
InUpCnt	ABBIED600_Rev1_SPS_e	Input for up counting	E	REx620 MICS:2015>IEC 61850-7-4:2003
InDnCnt	ABBIED600_Rev1_SPS_e	Input for down counting	E	REx620 MICS:2015>IEC 61850-7-4:2003
CntLodVal	ABBIED600_Rev1_ING_SP_1_e	Preset counter value	E	REx620 MICS:2015>IEC 61850-7-4:2003
CntVal	ABBIED600_Rev2_BCR_1	Output of counter value		
UpCntSt	ABBIED600_Rev1_SPS_e	Status output of up counting	E	REx620 MICS:2015>IEC 61850-7-4:2003
DnCntSt	ABBIED600_Rev1_SPS_e	Status output of down counting	E	REx620 MICS:2015>IEC 61850-7-4:2003
CntRs	ABBIED600_Rev2_SPC_control_e	Resets the counter value	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
LodCnt	ABBIED600_Rev2_SPC_control_e	Load the counter to preset value	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.1.82 LN: UDFCNT7 Name: FCNT (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
InUpCnt	ABBIED600_Rev1_SPS_e	Input for up counting	E	REx620 MICS:2015>IEC 61850-7-4:2003
InDnCnt	ABBIED600_Rev1_SPS_e	Input for down counting	E	REx620 MICS:2015>IEC 61850-7-4:2003
CntLodVal	ABBIED600_Rev1_ING_SP_1_e	Preset counter value	E	REx620 MICS:2015>IEC 61850-7-4:2003

CntVal	ABBIED600_Rev2_BCR_1	Output of counter value		
UpCntSt	ABBIED600_Rev1_SPS_e	Status output of up counting	E	REx620 MICS:2015>IEC 61850-7-4:2003
DnCntSt	ABBIED600_Rev1_SPS_e	Status output of down counting	E	REx620 MICS:2015>IEC 61850-7-4:2003
CntRs	ABBIED600_Rev2_SPC_control_e	Resets the counter value	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
LodCnt	ABBIED600_Rev2_SPC_control_e	Load the counter to preset value	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.1.83 LN: UDFCNT8 Name: FCNT (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
InUpCnt	ABBIED600_Rev1_SPS_e	Input for up counting	E	REx620 MICS:2015>IEC 61850-7-4:2003
InDnCnt	ABBIED600_Rev1_SPS_e	Input for down counting	E	REx620 MICS:2015>IEC 61850-7-4:2003
CntLodVal	ABBIED600_Rev1_ING_SP_1_e	Preset counter value	E	REx620 MICS:2015>IEC 61850-7-4:2003
CntVal	ABBIED600_Rev2_BCR_1	Output of counter value		
UpCntSt	ABBIED600_Rev1_SPS_e	Status output of up counting	E	REx620 MICS:2015>IEC 61850-7-4:2003
DnCntSt	ABBIED600_Rev1_SPS_e	Status output of down counting	E	REx620 MICS:2015>IEC 61850-7-4:2003
CntRs	ABBIED600_Rev2_SPC_control_e	Resets the counter value	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
LodCnt	ABBIED600_Rev2_SPC_control_e	Load the counter to preset value	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.1.84 LN: UDFCNT9 Name: FCNT (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only

NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
InUpCnt	ABBIED600_Rev1_SPS_e	Input for up counting	E	REx620 MICS:2015>IEC 61850-7-4:2003
InDnCnt	ABBIED600_Rev1_SPS_e	Input for down counting	E	REx620 MICS:2015>IEC 61850-7-4:2003
CntLodVal	ABBIED600_Rev1_ING_SP_1_e	Preset counter value	E	REx620 MICS:2015>IEC 61850-7-4:2003
CntVal	ABBIED600_Rev2_BCR_1	Output of counter value		
UpCntSt	ABBIED600_Rev1_SPS_e	Status output of up counting	E	REx620 MICS:2015>IEC 61850-7-4:2003
DnCntSt	ABBIED600_Rev1_SPS_e	Status output of down counting	E	REx620 MICS:2015>IEC 61850-7-4:2003
CntRs	ABBIED600_Rev2_SPC_control_e	Resets the counter value	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
LodCnt	ABBIED600_Rev2_SPC_control_e	Load the counter to preset value	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.1.85 LN: UDFCNT10 Name: FCNT (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
InUpCnt	ABBIED600_Rev1_SPS_e	Input for up counting	E	REx620 MICS:2015>IEC 61850-7-4:2003
InDnCnt	ABBIED600_Rev1_SPS_e	Input for down counting	E	REx620 MICS:2015>IEC 61850-7-4:2003
CntLodVal	ABBIED600_Rev1_ING_SP_1_e	Preset counter value	E	REx620 MICS:2015>IEC 61850-7-4:2003
CntVal	ABBIED600_Rev2_BCR_1	Output of counter value		
UpCntSt	ABBIED600_Rev1_SPS_e	Status output of up counting	E	REx620 MICS:2015>IEC 61850-7-4:2003
DnCntSt	ABBIED600_Rev1_SPS_e	Status output of down counting	E	REx620 MICS:2015>IEC 61850-7-4:2003
CntRs	ABBIED600_Rev2_SPC_control_e	Resets the counter value	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
LodCnt	ABBIED600_Rev2_SPC_control_e	Load the counter to preset value	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.1.86 LN: UDFCNT11 Name: FCNT (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
InUpCnt	ABBIED600_Rev1_SPS_e	Input for up counting	E	REx620 MICS:2015>IEC 61850-7-4:2003
InDnCnt	ABBIED600_Rev1_SPS_e	Input for down counting	E	REx620 MICS:2015>IEC 61850-7-4:2003
CntLodVal	ABBIED600_Rev1_ING_SP_1_e	Preset counter value	E	REx620 MICS:2015>IEC 61850-7-4:2003
CntVal	ABBIED600_Rev2_BCR_1	Output of counter value		
UpCntSt	ABBIED600_Rev1_SPS_e	Status output of up counting	E	REx620 MICS:2015>IEC 61850-7-4:2003
DnCntSt	ABBIED600_Rev1_SPS_e	Status output of down counting	E	REx620 MICS:2015>IEC 61850-7-4:2003
CntRs	ABBIED600_Rev2_SPC_control_e	Resets the counter value	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
LodCnt	ABBIED600_Rev2_SPC_control_e	Load the counter to preset value	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.1.87 LN: UDFCNT12 Name: FCNT (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
InUpCnt	ABBIED600_Rev1_SPS_e	Input for up counting	E	REx620 MICS:2015>IEC 61850-7-4:2003
InDnCnt	ABBIED600_Rev1_SPS_e	Input for down counting	E	REx620 MICS:2015>IEC 61850-7-4:2003
CntLodVal	ABBIED600_Rev1_ING_SP_1_e	Preset counter value	E	REx620 MICS:2015>IEC 61850-7-4:2003
CntVal	ABBIED600_Rev2_BCR_1	Output of counter value		
UpCntSt	ABBIED600_Rev1_SPS_e	Status output of up counting	E	REx620 MICS:2015>IEC 61850-7-4:2003
DnCntSt	ABBIED600_Rev1_SPS_e	Status output of down counting	E	REx620 MICS:2015>IEC 61850-7-4:2003

CntRs	ABBIED600_Rev2_SPC_control_e	Resets the counter value	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
LodCnt	ABBIED600_Rev2_SPC_control_e	Load the counter to preset value	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.1.88 LN: FLTRFRC1 Name: RFRC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1_e	Mode	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1_e	Behaviour	E	REx620 MICS:2015>IEC 61850-7-4:2003
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_lnNs_1_e	Name plate	E	REx620 MICS:2015>IEC 61850-7-4:2003
Hz	ABBIED600_Rev3_MV_simple_i_e	Frequency	E	REx620 MICS:2015>IEC 61850-7-4:2003
FltPtR	ABBIED600_Rev3_MV_simple_i	Fault resistance		
FltDiskm	ABBIED600_Rev3_MV_simple_i_e	Distance to fault measured in pu	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpCnt	ABBIED600_Rev1_INS_e	time	E	REx620 MICS:2015>IEC 61850-7-4:2003
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
InOp	ABBIED600_Rev1_SPS	Operate input for triggering		
InStr	ABBIED600_Rev1_SPS	Start input for triggering		
RcdRs	ABBIED600_Rev2_SPC_control	Reset fault records		status-only,direct-with-normal-security
SelRow	ABBIED600_Rev2_INC_all_rights	Select recording		status-only,direct-with-normal-security
TrgSet	ABBIED600_Rev2_ENG_SP_TrgSet	Triggering mode		
AMeasMod	ABBIED600_Rev3_ENG_SP_MeasMod	A measurement mode		
ProFcn	ABBIED600_Rev26_INS_ProFcn_ED1	Protection function		
StrDur	ABBIED600_Rev3_MV_2	Maximum start duration of all stages during the fault		
StrOpTm	ABBIED600_Rev3_MV_simple_i	Operate time		
ActSetGr	ABBIED600_Rev1_INC_simple_int	Active setting group		status-only
ShotPntr	ABBIED600_Rev1_INS_d	Shot pointer		
Max50DifAA	ABBIED600_Rev3_MV_simple_i	Maximum differential current phase A		

Max50DifAB	ABBIED600_Rev3_MV_simple_i	Maximum differential current phase B		
Max50DifAC	ABBIED600_Rev3_MV_simple_i	Maximum differential current phase C		
Max50RstAA	ABBIED600_Rev3_MV_simple_i	Maximum bias current phase A		
Max50RstAB	ABBIED600_Rev3_MV_simple_i	Maximum bias current phase B		
Max50RstAC	ABBIED600_Rev3_MV_simple_i	Maximum bias current phase C		
DifAPhsA	ABBIED600_Rev3_MV_simple_i	Differential current phase A		
DifAPhsB	ABBIED600_Rev3_MV_simple_i	Differential current phase B		
DifAPhsC	ABBIED600_Rev3_MV_simple_i	Differential current phase C		
RstAPhsA	ABBIED600_Rev3_MV_simple_i	Bias current phase A		
RstAPhsB	ABBIED600_Rev3_MV_simple_i	Bias current phase B		
RstAPhsC	ABBIED600_Rev3_MV_simple_i	Bias current phase C		
DifARes	ABBIED600_Rev3_MV_simple_i	Differential current residual		
RstARes	ABBIED600_Rev3_MV_simple_i	Bias current residual		
Max50APhsA1	ABBIED600_Rev3_MV_simple_i	Maximum phase A current		
Max50APhsB1	ABBIED600_Rev3_MV_simple_i	Maximum phase B current		
Max50APhsC1	ABBIED600_Rev3_MV_simple_i	Maximum phase C current		
Max50ARes1	ABBIED600_Rev3_MV_simple_i	Maximum residual current		
APhsA1	ABBIED600_Rev3_MV_simple_i	Phase A current		
APhsB1	ABBIED600_Rev3_MV_simple_i	Phase B current		
APhsC1	ABBIED600_Rev3_MV_simple_i	Phase C current		
ARes1	ABBIED600_Rev3_MV_simple_i	Residual current		
AResClc1	ABBIED600_Rev3_MV_simple_i	Calculated residual current		
APsSeq1	ABBIED600_Rev3_MV_simple_i	Positive sequence current		
ANgSeq1	ABBIED600_Rev3_MV_simple_i	Negative sequence current		
Max50APhsA2	ABBIED600_Rev3_MV_simple_i	Maximum phase A current (b)		
Max50APhsB2	ABBIED600_Rev3_MV_simple_i	Maximum phase B current (b)		

Max50APhsC2	ABBIED600_Rev3_MV_simple_i	Maximum phase C current (b)		
Max50ARes2	ABBIED600_Rev3_MV_simple_i	Maximum residual current (b)		
APhsA2	ABBIED600_Rev3_MV_simple_i	Phase A current (b)		
APhsB2	ABBIED600_Rev3_MV_simple_i	Phase B current (b)		
APhsC2	ABBIED600_Rev3_MV_simple_i	Phase C current (b)		
ARes2	ABBIED600_Rev3_MV_simple_i	Residual current (b)		
AResClc2	ABBIED600_Rev3_MV_simple_i	Calculated residual current (b)		
APsSeq2	ABBIED600_Rev3_MV_simple_i	Positive sequence current (b)		
ANgSeq2	ABBIED600_Rev3_MV_simple_i	Negative sequence current (b)		
Max50APhsA3	ABBIED600_Rev3_MV_simple_i	Maximum phase A current (c)		
Max50APhsB3	ABBIED600_Rev3_MV_simple_i	Maximum phase B current (c)		
Max50APhsC3	ABBIED600_Rev3_MV_simple_i	Maximum phase C current (c)		
Max50ARes3	ABBIED600_Rev3_MV_simple_i	Maximum residual current (c)		
APhsA3	ABBIED600_Rev3_MV_simple_i	Phase A current (c)		
APhsB3	ABBIED600_Rev3_MV_simple_i	Phase B current (c)		
APhsC3	ABBIED600_Rev3_MV_simple_i	Phase C current (c)		
ARes3	ABBIED600_Rev3_MV_simple_i	Residual current (c)		
AResClc3	ABBIED600_Rev3_MV_simple_i	Calculated residual current (c)		
APsSeq3	ABBIED600_Rev3_MV_simple_i	Positive sequence current (c)		
ANgSeq3	ABBIED600_Rev3_MV_simple_i	Negative sequence current (c)		
PhVPhsA1	ABBIED600_Rev3_MV_simple_i	Phase A voltage		
PhVPhsB1	ABBIED600_Rev3_MV_simple_i	Phase B voltage		
PhVPhsC1	ABBIED600_Rev3_MV_simple_i	Phase C voltage		
PPVPhsAB1	ABBIED600_Rev3_MV_simple_i	Phase A to phase B voltage		
PPVPhsBC1	ABBIED600_Rev3_MV_simple_i	Phase B to phase C voltage		
PPVPhsCA1	ABBIED600_Rev3_MV_simple_i	Phase C to phase A voltage		
VRes1	ABBIED600_Rev3_MV_simple_i	Residual voltage		
VZro1	ABBIED600_Rev3_MV_simple_i	Zero sequence voltage		
VPsSeq1	ABBIED600_Rev3_MV_simple_i	Positive sequence voltage		

VNgSeq1	ABBIED600_Rev3_MV_simple_i	Negative sequence voltage		
PhVPhsA2	ABBIED600_Rev3_MV_simple_i	Phase A voltage (b)		
PhVPhsB2	ABBIED600_Rev3_MV_simple_i	Phase B voltage (b)		
PhVPhsC2	ABBIED600_Rev3_MV_simple_i	Phase C voltage (b)		
PPVPhsAB2	ABBIED600_Rev3_MV_simple_i	Phase A to phase B voltage (b)		
PPVPhsBC2	ABBIED600_Rev3_MV_simple_i	Phase B to phase C voltage (b)		
PPVPhsCA2	ABBIED600_Rev3_MV_simple_i	Phase C to phase A voltage (b)		
VRes2	ABBIED600_Rev3_MV_simple_i	Residual voltage (b)		
VZro2	ABBIED600_Rev3_MV_simple_i	Zero sequence voltage (b)		
VPsSeq2	ABBIED600_Rev3_MV_simple_i	Positive sequence voltage (b)		
VNgSeq2	ABBIED600_Rev3_MV_simple_i	Negative sequence voltage (b)		
MaxTmpRl	ABBIED600_Rev3_MV_simple_i	PTTR thermal level		
AMaxNgPs	ABBIED600_Rev3_MV_simple_i	PDNSPTOC1 rat. I2/I1		
DifANAngVN1	ABBIED600_Rev3_MV_simple_i	Angle residual voltage - residual current		
DifAAAngVBC1	ABBIED600_Rev3_MV_simple_i	Angle phase B to phase C voltage - phase A current		
DifABAngVCA1	ABBIED600_Rev3_MV_simple_i	Angle phase C to phase A voltage - phase B current		
DifACAngVAB1	ABBIED600_Rev3_MV_simple_i	Angle phase A to phase B voltage - phase C current		
DifANAngVN2	ABBIED600_Rev3_MV_simple_i	Angle residual voltage - residual current (b)		
DifAAAngVBC2	ABBIED600_Rev3_MV_simple_i	Angle phase B to phase C voltage - phase A current (b)		
DifABAngVCA2	ABBIED600_Rev3_MV_simple_i	Angle phase C to phase A voltage - phase B current (b)		
DifACAngVAB2	ABBIED600_Rev3_MV_simple_i	Angle phase A to phase B voltage - phase C current (b)		
HzRteChg	ABBIED600_Rev3_MV_simple_i	Frequency gradient		
CondNeut	ABBIED600_Rev3_MV_simple_i	Conductance Yo		
SusNeut	ABBIED600_Rev3_MV_simple_i	Susceptance Yo		

PPLoopRis	ABBIED600_Rev3_MV_simple_i	Fault loop resistance		
PPLoopReact	ABBIED600_Rev3_MV_simple_i	Fault loop reactance		
InCBClr	ABBIED600_Rev1_SPS	Breaker open status		
CBClrTm	ABBIED600_Rev3_MV_simple_i	Breaker clear time		

6.1.89 LN: DPHLRDIR2 Name: RDIR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Dir	ABBIED600_Rev1_ACD_threephase	Direction		
ChrAng	ABBIED600_Rev3_ASG_SG_i_ED1	Characteristic angle		
MinFwdAng	ABBIED600_Rev3_ASG_SG_i_ED1	Minimum phase angle in forward direction		
MinRvAng	ABBIED600_Rev3_ASG_SG_i_ED1	Minimum phase angle in reverse direction		
MaxFwdAng	ABBIED600_Rev3_ASG_SG_i_ED1	Maximum phase angle in forward direction		
MaxRvAng	ABBIED600_Rev3_ASG_SG_i_ED1	Maximum phase angle in reverse direction		
BlkValA	ABBIED600_Rev3_ASG_SP_i	Min operate current		
BlkValV	ABBIED600_Rev3_ASG_SP_i	Min operate voltage		
PolQty	ABBIED600_Rev3_ENG_SG_PolQty_ED1	Polarising Quantity		
VMemTmms	ABBIED600_Rev1_ING_SG_ED1_e	Voltage memory time	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpChrAngPhsA	ABBIED600_Rev3_MV_simple_i_e	Calc angle difference phase A	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpChrAngPhsB	ABBIED600_Rev3_MV_simple_i_e	Calc angle difference phase B	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpChrAngPhsC	ABBIED600_Rev3_MV_simple_i_e	Calc angle difference phase C	E	REx620 MICS:2015>IEC 61850-7-4:2003
VMemUsedSt	ABBIED600_Rev1_SPS_e	Voltage memory in use status	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.90 LN: DPHHRDIR2 Name: RDIR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Dir	ABBIED600_Rev1_ACD_threephase	DIR		
ChrAng	ABBIED600_Rev3_ASG_SG_i_ED1	Characteristic angle		
MinFwdAng	ABBIED600_Rev3_ASG_SG_i_ED1	Minimum phase angle in forward direction		
MinRvAng	ABBIED600_Rev3_ASG_SG_i_ED1	Minimum phase angle in reverse direction		
MaxFwdAng	ABBIED600_Rev3_ASG_SG_i_ED1	Maximum phase angle in forward direction		
MaxRvAng	ABBIED600_Rev3_ASG_SG_i_ED1	Maximum phase angle in reverse direction		
BlkValA	ABBIED600_Rev3_ASG_SP_i	Min operate current		
BlkValV	ABBIED600_Rev3_ASG_SP_i	Min operate voltage		
PolQty	ABBIED600_Rev3_ENG_SG_PolQty_ED1	Polarizing quantity		
VMemTmms	ABBIED600_Rev1_ING_SG_ED1_e	Voltage memory time	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpChrAngPhsA	ABBIED600_Rev3_MV_simple_i_e	Calc angle difference phase A	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpChrAngPhsB	ABBIED600_Rev3_MV_simple_i_e	Calc angle difference phase B	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpChrAngPhsC	ABBIED600_Rev3_MV_simple_i_e	Calc angle difference phase C	E	REx620 MICS:2015>IEC 61850-7-4:2003
VMemUsedSt	ABBIED600_Rev1_SPS_e	Voltage memory in use status	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.91 LN: DEFLRDIR2 Name: RDIR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only

Dir	ABBIED600_Rev1_ACD_simple	Direction		
ChrAng	ABBIED600_Rev3_ASG_SG_i_ED1	Characteristic angle		
MinFwdAng	ABBIED600_Rev3_ASG_SG_i_ED1	Minimum phase angle in forward direction		
MinRvAng	ABBIED600_Rev3_ASG_SG_i_ED1	Minimum phase angle in reverse direction		
MaxFwdAng	ABBIED600_Rev3_ASG_SG_i_ED1	Maximum phase angle in forward direction		
MaxRvAng	ABBIED600_Rev3_ASG_SG_i_ED1	Maximum phase angle in reverse direction		
BlkValA	ABBIED600_Rev3_ASG_SP_i	Minimum operating current		
BlkValV	ABBIED600_Rev3_ASG_SP_i	Minimum operating voltage		
PolQty	ABBIED600_Rev1_ENG_SP_PolQty	Polarizing quantity		
InRcaCtl	ABBIED600_Rev1_SPS_e	Relay characteristic angle control	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpModEF	ABBIED600_Rev2_ENG_SG_OpModEF_ED1_e	Operation criteria	E	REx620 MICS:2015>IEC 61850-7-4:2003
CorAng	ABBIED600_Rev3_ASG_SP_i_e	Correction angle	E	REx620 MICS:2015>IEC 61850-7-4:2003
RevPol	ABBIED600_Rev1_SPG_SP_e	Rotate polarizing quantity	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpAEF	ABBIED600_Rev3_MV_simple_i_e	Operating current for EF protection	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpPolAng	ABBIED600_Rev3_MV_simple_i_e	Angle between operating and polarizing quantity	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpChrAng	ABBIED600_Rev3_MV_simple_i_e	Angle between operating angle and characteristic angle	E	REx620 MICS:2015>IEC 61850-7-4:2003
VResSigSel	ABBIED600_Rev2_ENG_SP_VResSigSel_e	Selection for used Uo signal	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.92 LN: DEFLRDIR3 Name: RDIR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only

NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Dir	ABBIED600_Rev1_ACD_simple	Direction		
ChrAng	ABBIED600_Rev3_ASG_SG_i_ED1	Characteristic angle		
MinFwdAng	ABBIED600_Rev3_ASG_SG_i_ED1	Minimum phase angle in forward direction		
MinRvAng	ABBIED600_Rev3_ASG_SG_i_ED1	Minimum phase angle in reverse direction		
MaxFwdAng	ABBIED600_Rev3_ASG_SG_i_ED1	Maximum phase angle in forward direction		
MaxRvAng	ABBIED600_Rev3_ASG_SG_i_ED1	Maximum phase angle in reverse direction		
BlkValA	ABBIED600_Rev3_ASG_SP_i	Minimum operating current		
BlkValV	ABBIED600_Rev3_ASG_SP_i	Minimum operating voltage		
PolQty	ABBIED600_Rev1_ENG_SP_PolQty	Polarizing quantity		
InRcaCtl	ABBIED600_Rev1_SPS_e	Relay characteristic angle control	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpModEF	ABBIED600_Rev2_ENG_SG_OpModEF_ED1_e	Operation criteria	E	REx620 MICS:2015>IEC 61850-7-4:2003
CorAng	ABBIED600_Rev3_ASG_SP_i_e	Correction angle	E	REx620 MICS:2015>IEC 61850-7-4:2003
RevPol	ABBIED600_Rev1_SPG_SP_e	Rotate polarizing quantity	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpAEF	ABBIED600_Rev3_MV_simple_i_e	Operating current for EF protection	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpPolAng	ABBIED600_Rev3_MV_simple_i_e	Angle between operating and polarizing quantity	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpChrAng	ABBIED600_Rev3_MV_simple_i_e	Angle between operating angle and characteristic angle	E	REx620 MICS:2015>IEC 61850-7-4:2003
VResSigSel	ABBIED600_Rev2_ENG_SP_VResSigSel_e	Selection for used Uo signal	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.93 LN: EFPADM1 Name: PADM (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1_e	Mode	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

Beh	ABBIED600_Rev2_INS_beh_ED1_e	Behaviour	E	REx620 MICS:2015>IEC 61850-7-4:2003
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_lnNs_1_e	Name plate	E	REx620 MICS:2015>IEC 61850-7-4:2003
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple_e	Start	E	REx620 MICS:2015>IEC 61850-7-4:2003
Op	ABBIED600_Rev1_ACT_simple_e	Operate	E	REx620 MICS:2015>IEC 61850-7-4:2003
VStr	ABBIED600_Rev3_ASG_SG_i_ED1_e	Voltage Start Value	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1_e	Operate Delay Time	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2	Ratio of start time / operate time		
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1	Test control for outputs		status-only,direct-with-normal-security
DirMod	ABBIED600_Rev3_ENG_SG_DirMod_ED1_e	Directional Mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
RsDlTmms	ABBIED600_Rev1_ING_SP_1_e	Reset Delay Time	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpModAdm	ABBIED600_Rev2_ENG_SG_OpModAdm_ED1	Operation mode		
BlkValA	ABBIED600_Rev3_ASG_SP_i_e	Minimum operating current	E	REx620 MICS:2015>IEC 61850-7-4:2003
BlkValV	ABBIED600_Rev3_ASG_SP_i_e	Minimum operating voltage	E	REx620 MICS:2015>IEC 61850-7-4:2003
CondTiltAng	ABBIED600_Rev3_ASG_SG_i_ED1	Conductance tilt angle		
CondFwd	ABBIED600_Rev3_ASG_SG_i_ED1	Conductance forward		
CondRv	ABBIED600_Rev3_ASG_SG_i_ED1	Conductance reverse		
SusTiltAng	ABBIED600_Rev3_ASG_SG_i_ED1	Susceptance tilt angle		
SusFwd	ABBIED600_Rev3_ASG_SG_i_ED1	Susceptance forward		
SusRv	ABBIED600_Rev3_ASG_SG_i_ED1	Susceptance reverse		
CirclRd	ABBIED600_Rev3_ASG_SG_i_ED1	Circle radius		
CirclCond	ABBIED600_Rev3_ASG_SG_i_ED1	Circle conductance		
CirclSus	ABBIED600_Rev3_ASG_SG_i_ED1	Circle susceptance		

RevPol	ABBIED600_Rev1_SPG_SP	Rotate polarizing quantity		
Cond	ABBIED600_Rev3_MV_simple_i	Measured neutral conductance		
Sus	ABBIED600_Rev3_MV_simple_i	Measured neutral susceptance		
TrgSt	ABBIED600_Rev1_SPS	Signal indicating function triggering		
AResSigSel	ABBIED600_Rev2_ENG_SP_AResSigSel	Selection for used Io signal		
VResSigSel	ABBIED600_Rev2_ENG_SP_VResSigSel	Selection for used Uo signal		
AdmClcMod	ABBIED600_Rev2_ENG_SP_AdmClcMod	Admittance calculation mode		

6.1.94 LN: EFPADM2 Name: PADM (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1_e	Mode	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1_e	Behaviour	E	REx620 MICS:2015>IEC 61850-7-4:2003
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_lnNs_1_e	Name plate	E	REx620 MICS:2015>IEC 61850-7-4:2003
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple_e	Start	E	REx620 MICS:2015>IEC 61850-7-4:2003
Op	ABBIED600_Rev1_ACT_simple_e	Operate	E	REx620 MICS:2015>IEC 61850-7-4:2003
VStr	ABBIED600_Rev3_ASG_SG_i_ED1_e	Voltage Start Value	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1_e	Operate Delay Time	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2	Ratio of start time / operate time		
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1	Test control for outputs		status-only,direct-with-normal-security
DirMod	ABBIED600_Rev3_ENG_SG_DirMod_ED1_e	Directional Mode	E	REx620 MICS:2015>IEC 61850-7-4:2003

RsDlTmms	ABBIED600_Rev1_ING_SP_1_e	Reset Delay Time	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpModAdm	ABBIED600_Rev2_ENG_SG_OpModAdm_ED1	Operation mode		
BlkValA	ABBIED600_Rev3_ASG_SP_i_e	Minimum operating current	E	REx620 MICS:2015>IEC 61850-7-4:2003
BlkValV	ABBIED600_Rev3_ASG_SP_i_e	Minimum operating voltage	E	REx620 MICS:2015>IEC 61850-7-4:2003
CondTiltAng	ABBIED600_Rev3_ASG_SG_i_ED1	Conductance tilt angle		
CondFwd	ABBIED600_Rev3_ASG_SG_i_ED1	Conductance forward		
CondRv	ABBIED600_Rev3_ASG_SG_i_ED1	Conductance reverse		
SusTiltAng	ABBIED600_Rev3_ASG_SG_i_ED1	Susceptance tilt angle		
SusFwd	ABBIED600_Rev3_ASG_SG_i_ED1	Susceptance forward		
SusRv	ABBIED600_Rev3_ASG_SG_i_ED1	Susceptance reverse		
CirclRd	ABBIED600_Rev3_ASG_SG_i_ED1	Circle radius		
CirclCond	ABBIED600_Rev3_ASG_SG_i_ED1	Circle conductance		
CirclSus	ABBIED600_Rev3_ASG_SG_i_ED1	Circle susceptance		
RevPol	ABBIED600_Rev1_SPG_SP	Rotate polarizing quantity		
Cond	ABBIED600_Rev3_MV_simple_i	Measured neutral conductance		
Sus	ABBIED600_Rev3_MV_simple_i	Measured neutral susceptance		
TrgSt	ABBIED600_Rev1_SPS	Signal indicating function triggering		
AResSigSel	ABBIED600_Rev2_ENG_SP_AResSigSel	Selection for used Io signal		
VResSigSel	ABBIED600_Rev2_ENG_SP_VResSigSel	Selection for used Uo signal		
AdmClcMod	ABBIED600_Rev2_ENG_SP_AdmClcMod	Admittance calculation mode		

6.1.95 LN: EFPADM3 Name: PADM (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OfOn_FD_ED1_e	Mode	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1_e	Behaviour	E	REx620 MICS:2015>IEC 61850-7-4:2003
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_lnNs_1_e	Name plate	E	REx620 MICS:2015>IEC 61850-7-4:2003
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple_e	Start	E	REx620 MICS:2015>IEC 61850-7-4:2003
Op	ABBIED600_Rev1_ACT_simple_e	Operate	E	REx620 MICS:2015>IEC 61850-7-4:2003
VStr	ABBIED600_Rev3_ASG_SG_i_ED1_e	Voltage Start Value	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1_e	Operate Delay Time	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2	Ratio of start time / operate time		
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1	Test control for outputs		status-only,direct-with-normal-security
DirMod	ABBIED600_Rev3_ENG_SG_DirMod_ED1_e	Directional Mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
RsDlTmms	ABBIED600_Rev1_ING_SP_1_e	Reset Delay Time	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpModAdm	ABBIED600_Rev2_ENG_SG_OpModAdm_ED1	Operation mode		
BlkValA	ABBIED600_Rev3_ASG_SP_i_e	Minimum operating current	E	REx620 MICS:2015>IEC 61850-7-4:2003
BlkValV	ABBIED600_Rev3_ASG_SP_i_e	Minimum operating voltage	E	REx620 MICS:2015>IEC 61850-7-4:2003
CondTiltAng	ABBIED600_Rev3_ASG_SG_i_ED1	Conductance tilt angle		
CondFwd	ABBIED600_Rev3_ASG_SG_i_ED1	Conductance forward		
CondRv	ABBIED600_Rev3_ASG_SG_i_ED1	Conductance reverse		
SusTiltAng	ABBIED600_Rev3_ASG_SG_i_ED1	Susceptance tilt angle		
SusFwd	ABBIED600_Rev3_ASG_SG_i_ED1	Susceptance forward		

SusRv	ABBIED600_Rev3_ASG_SG_i_ED1	Susceptance reverse		
CirclRd	ABBIED600_Rev3_ASG_SG_i_ED1	Circle radius		
CirclCond	ABBIED600_Rev3_ASG_SG_i_ED1	Circle conductance		
CirclSus	ABBIED600_Rev3_ASG_SG_i_ED1	Circle susceptance		
RevPol	ABBIED600_Rev1_SPG_SP	Rotate polarizing quantity		
Cond	ABBIED600_Rev3_MV_simple_i	Measured neutral conductance		
Sus	ABBIED600_Rev3_MV_simple_i	Measured neutral susceptance		
TrgSt	ABBIED600_Rev1_SPS	Signal indicating function triggering		
AResSigSel	ABBIED600_Rev2_ENG_SP_AResSigSel	Selection for used Io signal		
VResSigSel	ABBIED600_Rev2_ENG_SP_VResSigSel	Selection for used Uo signal		
AdmClcMod	ABBIED600_Rev2_ENG_SP_AdmClcMod	Admittance calculation mode		

6.1.96 LN: DPH3HRDIR1 Name: RDIR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Dir	ABBIED600_Rev1_ACD_threephase	DIR		
ChrAng	ABBIED600_Rev3_ASG_SG_i_ED1	Characteristic angle		
MinFwdAng	ABBIED600_Rev3_ASG_SG_i_ED1	Minimum phase angle in forward direction		
MinRvAng	ABBIED600_Rev3_ASG_SG_i_ED1	Minimum phase angle in reverse direction		
MaxFwdAng	ABBIED600_Rev3_ASG_SG_i_ED1	Maximum phase angle in forward direction		

MaxRvAng	ABBIED600_Rev3_ASG_SG_i_ED1	Maximum phase angle in reverse direction		
BlkValA	ABBIED600_Rev3_ASG_SP_i	Min operate current		
BlkValV	ABBIED600_Rev3_ASG_SP_i	Min operate voltage		
PolQty	ABBIED600_Rev3_ENG_SG_PolQty_ED1	Polarizing quantity		
OpChrAngPhsA	ABBIED600_Rev3_MV_simple_i_e	Calc angle difference phase A	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpChrAngPhsB	ABBIED600_Rev3_MV_simple_i_e	Calc angle difference phase B	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpChrAngPhsC	ABBIED600_Rev3_MV_simple_i_e	Calc angle difference phase C	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.97 LN: DPH3HRDIR2 Name: RDIR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Dir	ABBIED600_Rev1_ACD_threephase	DIR		
ChrAng	ABBIED600_Rev3_ASG_SG_i_ED1	Characteristic angle		
MinFwdAng	ABBIED600_Rev3_ASG_SG_i_ED1	Minimum phase angle in forward direction		
MinRvAng	ABBIED600_Rev3_ASG_SG_i_ED1	Minimum phase angle in reverse direction		
MaxFwdAng	ABBIED600_Rev3_ASG_SG_i_ED1	Maximum phase angle in forward direction		
MaxRvAng	ABBIED600_Rev3_ASG_SG_i_ED1	Maximum phase angle in reverse direction		
BlkValA	ABBIED600_Rev3_ASG_SP_i	Min operate current		
BlkValV	ABBIED600_Rev3_ASG_SP_i	Min operate voltage		
PolQty	ABBIED600_Rev3_ENG_SG_PolQty_ED1	Polarizing quantity		
OpChrAngPhsA	ABBIED600_Rev3_MV_simple_i_e	Calc angle difference phase A	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpChrAngPhsB	ABBIED600_Rev3_MV_simple_i_e	Calc angle difference phase B	E	REx620 MICS:2015>IEC 61850-7-4:2003

Op-ChrAngPhsC	ABBIED600_Rev3_MV_simple_i_e	Calc angle difference phase C	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.98 LN: DPH3LRDIR1 Name: RDIR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Dir	ABBIED600_Rev1_ACD_threephase	Direction		
ChrAng	ABBIED600_Rev3_ASG_SG_i_ED1	Characteristic angle		
MinFwdAng	ABBIED600_Rev3_ASG_SG_i_ED1	Minimum phase angle in forward direction		
MinRvAng	ABBIED600_Rev3_ASG_SG_i_ED1	Minimum phase angle in reverse direction		
MaxFwdAng	ABBIED600_Rev3_ASG_SG_i_ED1	Maximum phase angle in forward direction		
MaxRvAng	ABBIED600_Rev3_ASG_SG_i_ED1	Maximum phase angle in reverse direction		
BlkValA	ABBIED600_Rev3_ASG_SP_i	Min operate current		
BlkValV	ABBIED600_Rev3_ASG_SP_i	Min operate voltage		
PolQty	ABBIED600_Rev3_ENG_SG_PolQty_ED1	Polarising Quantity		
Op-ChrAngPhsA	ABBIED600_Rev3_MV_simple_i_e	Calc angle difference phase A	E	REx620 MICS:2015>IEC 61850-7-4:2003
Op-ChrAngPhsB	ABBIED600_Rev3_MV_simple_i_e	Calc angle difference phase B	E	REx620 MICS:2015>IEC 61850-7-4:2003
Op-ChrAngPhsC	ABBIED600_Rev3_MV_simple_i_e	Calc angle difference phase C	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.99 LN: DPH3LRDIR2 Name: RDIR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Dir	ABBIED600_Rev1_ACD_threephase	Direction		
ChrAng	ABBIED600_Rev3_ASG_SG_i_ED1	Characteristic angle		

MinFwdAng	ABBIED600_Rev3_ASG_SG_i_ED1	Minimum phase angle in forward direction		
MinRvAng	ABBIED600_Rev3_ASG_SG_i_ED1	Minimum phase angle in reverse direction		
MaxFwdAng	ABBIED600_Rev3_ASG_SG_i_ED1	Maximum phase angle in forward direction		
MaxRvAng	ABBIED600_Rev3_ASG_SG_i_ED1	Maximum phase angle in reverse direction		
BlkValA	ABBIED600_Rev3_ASG_SP_i	Min operate current		
BlkValV	ABBIED600_Rev3_ASG_SP_i	Min operate voltage		
PolQty	ABBIED600_Rev3_ENG_SG_PolQty_ED1	Polarising Quantity		
OpChrAngPhsA	ABBIED600_Rev3_MV_simple_i_e	Calc angle difference phase A	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpChrAngPhsB	ABBIED600_Rev3_MV_simple_i_e	Calc angle difference phase B	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpChrAngPhsC	ABBIED600_Rev3_MV_simple_i_e	Calc angle difference phase C	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.100 LN: DARREC1 Name: RREC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
OpCntRs	ABBIED600_Rev1_INC_simple_int_e	Resetable operation counter (all shots)		status-only
RecCyc	ABBIED600_Rev1_INS	Actual reclose cycle (number between 1 and UseCyc)		
OpCls	ABBIED600_Rev1_ACT_threephase	Operate (close command to XCBR)		
AutoRecSt	ABBIED600_Rev3_INS_AutoRecSt_ED1	Auto Reclosing Status		
Rec1Tmms1	ABBIED600_Rev1_ING_SP	First reclose time		
Rec1Tmms2	ABBIED600_Rev1_ING_SP	Second reclose time		
Rec1Tmms3	ABBIED600_Rev1_ING_SP	Third reclose time		

Rec1Tmms4	ABBIED600_Rev1_ING_SP	Fourth reclose time		
Rec1Tmms5	ABBIED600_Rev1_ING_SP	Fifth reclose time		
Rec1Tmms6	ABBIED600_Rev1_ING_SP	Sixth reclose time		
Rec1Tmms7	ABBIED600_Rev1_ING_SP	Seventh reclose time		
Rec3Tmms1	ABBIED600_Rev1_ING_SP	First reclose time		
Rec3Tmms2	ABBIED600_Rev1_ING_SP	Second reclose time		
Rec3Tmms3	ABBIED600_Rev1_ING_SP	Third reclose time		
Rec3Tmms4	ABBIED600_Rev1_ING_SP	Fourth reclose time		
Rec3Tmms5	ABBIED600_Rev1_ING_SP	Fifth reclose time		
Rec3Tmms6	ABBIED600_Rev1_ING_SP	Sixth reclose time		
Rec3Tmms7	ABBIED600_Rev1_ING_SP	Seventh reclose time		
RclTmms	ABBIED600_Rev1_ING_SP	Reclaim time		
OpOpn	AB-BIED600_Rev1_ACT_threephase_e	Operate (open command to XCBR)		
BlkRec	ABBIED600_Rev2_SPC_control_e	Block reclose		status-only,direct-with-normal-security
RecCnt1	ABBIED600_Rev1_INS_e	Operation counter (1st shot)	E	REx620 MICS:2015>IEC 61850-7-4:2003
RecCnt2	ABBIED600_Rev1_INS_e	Operation counter (2nd shot)	E	REx620 MICS:2015>IEC 61850-7-4:2003
RecCnt3	ABBIED600_Rev1_INS_e	Operation counter (3rd shot)	E	REx620 MICS:2015>IEC 61850-7-4:2003
RecCnt4	ABBIED600_Rev1_INS_e	Operation counter (4th shot)	E	REx620 MICS:2015>IEC 61850-7-4:2003
RecCnt5	ABBIED600_Rev1_INS_e	Operation counter (5th shot)	E	REx620 MICS:2015>IEC 61850-7-4:2003
AutoIni	ABBIED600_Rev1_ING_SP_1_e	Auto init	E	REx620 MICS:2015>IEC 61850-7-4:2003
RecOp	ABBIED600_Rev2_ENG_SP_recOp_e	Reclosing operation	E	REx620 MICS:2015>IEC 61850-7-4:2003
ManClsMod	ABBIED600_Rev1_SPG_SP_e	Manual close mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
WtClsTmms	ABBIED600_Rev1_ING_SP_e	Wait close time	E	REx620 MICS:2015>IEC 61850-7-4:2003
MaxWtT-mms	ABBIED600_Rev1_ING_SP_e	Max wait time	E	REx620 MICS:2015>IEC 61850-7-4:2003
Max-BlkTmms	ABBIED600_Rev1_ING_SP_e	Max Thm block time	E	REx620 MICS:2015>IEC 61850-7-4:2003
CutOutT-mms	ABBIED600_Rev1_ING_SP_e	Cut-out time	E	REx620 MICS:2015>IEC 61850-7-4:2003
DsrTmms1	ABBIED600_Rev1_ING_SP_e	Dsr time shot 1	E	REx620 MICS:2015>IEC 61850-7-4:2003

DsrTmms2	ABBIED600_Rev1_ING_SP_e	Dsr time shot 2	E	REx620 MICS:2015>IEC 61850-7-4:2003
DsrTmms3	ABBIED600_Rev1_ING_SP_e	Dsr time shot 3	E	REx620 MICS:2015>IEC 61850-7-4:2003
DsrTmms4	ABBIED600_Rev1_ING_SP_e	Dsr time shot 4	E	REx620 MICS:2015>IEC 61850-7-4:2003
TermPrio	ABBIED600_Rev2_ENG_SP_term-Prio_e	Terminal priority	E	REx620 MICS:2015>IEC 61850-7-4:2003
SynSet	ABBIED600_Rev1_ING_SP_1_e	Synchronisation set	E	REx620 MICS:2015>IEC 61850-7-4:2003
AutoWtT-mms	ABBIED600_Rev1_ING_SP_e	Auto wait time	E	REx620 MICS:2015>IEC 61850-7-4:2003
AutoLORs	ABBIED600_Rev1_SPG_SP_e	Auto lockout re-set	E	REx620 MICS:2015>IEC 61850-7-4:2003
ProCrdLim	ABBIED600_Rev1_ING_SP_1_e	Protection crd limit	E	REx620 MICS:2015>IEC 61850-7-4:2003
ProCrdMod	ABBIED600_Rev2_ENG_SP_proCrd-Mod_e	Protection crd mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
AutoIniCnd	ABBIED600_Rev2_ENG_SP_autoIn-iCnd_e	Auto initiation cnd	E	REx620 MICS:2015>IEC 61850-7-4:2003
TrLin	ABBIED600_Rev1_ING_SP_1_e	Tripping line	E	REx620 MICS:2015>IEC 61850-7-4:2003
CtlLin	ABBIED600_Rev1_ING_SP_1_e	Control line	E	REx620 MICS:2015>IEC 61850-7-4:2003
EnaShotJmp	ABBIED600_Rev1_SPG_SP_e	Enable shot jump	E	REx620 MICS:2015>IEC 61850-7-4:2003
CBClsPosSt	ABBIED600_Rev1_SPG_SP_e	CB closed Pos status	E	REx620 MICS:2015>IEC 61850-7-4:2003
Ena4DlSOF	ABBIED600_Rev1_SPG_SP_e	Fourth delay in SOTF	E	REx620 MICS:2015>IEC 61850-7-4:2003
IniSigCBB1	ABBIED600_Rev1_ING_SP_1_e	Init signals CBB1	E	REx620 MICS:2015>IEC 61850-7-4:2003
IniSigCBB2	ABBIED600_Rev1_ING_SP_1_e	Init signals CBB2	E	REx620 MICS:2015>IEC 61850-7-4:2003
IniSigCBB3	ABBIED600_Rev1_ING_SP_1_e	Init signals CBB3	E	REx620 MICS:2015>IEC 61850-7-4:2003
IniSigCBB4	ABBIED600_Rev1_ING_SP_1_e	Init signals CBB4	E	REx620 MICS:2015>IEC 61850-7-4:2003
IniSigCBB5	ABBIED600_Rev1_ING_SP_1_e	Init signals CBB5	E	REx620 MICS:2015>IEC 61850-7-4:2003
IniSigCBB6	ABBIED600_Rev1_ING_SP_1_e	Init signals CBB6	E	REx620 MICS:2015>IEC 61850-7-4:2003
IniSigCBB7	ABBIED600_Rev1_ING_SP_1_e	Init signals CBB7	E	REx620 MICS:2015>IEC 61850-7-4:2003
BlkSigCBB1	ABBIED600_Rev1_ING_SP_1_e	Blk signals CBB1	E	REx620 MICS:2015>IEC 61850-7-4:2003
BlkSigCBB2	ABBIED600_Rev1_ING_SP_1_e	Blk signals CBB2	E	REx620 MICS:2015>IEC 61850-7-4:2003

BlkSigCBB3	ABBIED600_Rev1_ING_SP_1_e	Blk signals CBB3	E	REx620 MICS:2015>IEC 61850-7-4:2003
BlkSigCBB4	ABBIED600_Rev1_ING_SP_1_e	Blk signals CBB4	E	REx620 MICS:2015>IEC 61850-7-4:2003
BlkSigCBB5	ABBIED600_Rev1_ING_SP_1_e	Blk signals CBB5	E	REx620 MICS:2015>IEC 61850-7-4:2003
BlkSigCBB6	ABBIED600_Rev1_ING_SP_1_e	Blk signals CBB6	E	REx620 MICS:2015>IEC 61850-7-4:2003
BlkSigCBB7	ABBIED600_Rev1_ING_SP_1_e	Blk signals CBB7	E	REx620 MICS:2015>IEC 61850-7-4:2003
ShotNum1	ABBIED600_Rev1_ING_SP_1_e	Shot number CBB1	E	REx620 MICS:2015>IEC 61850-7-4:2003
ShotNum2	ABBIED600_Rev1_ING_SP_1_e	Shot number CBB2	E	REx620 MICS:2015>IEC 61850-7-4:2003
ShotNum3	ABBIED600_Rev1_ING_SP_1_e	Shot number CBB3	E	REx620 MICS:2015>IEC 61850-7-4:2003
ShotNum4	ABBIED600_Rev1_ING_SP_1_e	Shot number CBB4	E	REx620 MICS:2015>IEC 61850-7-4:2003
ShotNum5	ABBIED600_Rev1_ING_SP_1_e	Shot number CBB5	E	REx620 MICS:2015>IEC 61850-7-4:2003
ShotNum6	ABBIED600_Rev1_ING_SP_1_e	Shot number CBB6	E	REx620 MICS:2015>IEC 61850-7-4:2003
ShotNum7	ABBIED600_Rev1_ING_SP_1_e	Shot number CBB7	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str2Tmms1	ABBIED600_Rev1_ING_SP_e	Str 2 delay shot 1	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str2Tmms2	ABBIED600_Rev1_ING_SP_e	Str 2 delay shot 2	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str2Tmms3	ABBIED600_Rev1_ING_SP_e	Str 2 delay shot 3	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str2Tmms4	ABBIED600_Rev1_ING_SP_e	Str 2 delay shot 4	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str3Tmms1	ABBIED600_Rev1_ING_SP_e	Str 3 delay shot 1	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str3Tmms2	ABBIED600_Rev1_ING_SP_e	Str 3 delay shot 2	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str3Tmms3	ABBIED600_Rev1_ING_SP_e	Str 3 delay shot 3	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str3Tmms4	ABBIED600_Rev1_ING_SP_e	Str 3 delay shot 4	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str4Tmms1	ABBIED600_Rev1_ING_SP_e	Str 4 delay shot 1	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str4Tmms2	ABBIED600_Rev1_ING_SP_e	Str 4 delay shot 2	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str4Tmms3	ABBIED600_Rev1_ING_SP_e	Str 4 delay shot 3	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str4Tmms4	ABBIED600_Rev1_ING_SP_e	Str 4 delay shot 4	E	REx620 MICS:2015>IEC 61850-7-4:2003

FrqCntLim	ABBIED600_Rev1_ING_SP_1_e	Frq Op counter limit	E	REx620 MICS:2015>IEC 61850-7-4:2003
FrqCntTmm	ABBIED600_Rev1_ING_SP_1_e	Frq Op counter time	E	REx620 MICS:2015>IEC 61850-7-4:2003
FrqRcvTmm	ABBIED600_Rev1_ING_SP_1_e	Frq Op recovery time	E	REx620 MICS:2015>IEC 61850-7-4:2003
PlsTmms	ABBIED600_Rev1_ING_SP_e	Close pulse time		
MaxTrTmms	ABBIED600_Rev1_ING_SP_e	Max trip time	E	REx620 MICS:2015>IEC 61850-7-4:2003
InInhRec	ABBIED600_Rev1_SPS_e	Inhibit reclose (status)	E	REx620 MICS:2015>IEC 61850-7-4:2003
InBlkThm	ABBIED600_Rev1_SPS_e	Thermal block (status)	E	REx620 MICS:2015>IEC 61850-7-4:2003
LO	ABBIED600_Rev1_SPS_e	Lockout status	E	REx620 MICS:2015>IEC 61850-7-4:2003
RdyRec	ABBIED600_Rev1_SPS_e	Ready reclose status	E	REx620 MICS:2015>IEC 61850-7-4:2003
ActRec	ABBIED600_Rev1_SPS_e	Active reclose status	E	REx620 MICS:2015>IEC 61850-7-4:2003
SucRec	ABBIED600_Rev1_SPS_e	Successful re-close status	E	REx620 MICS:2015>IEC 61850-7-4:2003
UnsRec	ABBIED600_Rev1_SPS_e	Unsuccessful re-close status	E	REx620 MICS:2015>IEC 61850-7-4:2003
PrgRec	ABBIED600_Rev1_SPS_e	In progress status	E	REx620 MICS:2015>IEC 61850-7-4:2003
UnsCBCls	ABBIED600_Rev1_SPS_e	Unsuccessful CB closing status	E	REx620 MICS:2015>IEC 61850-7-4:2003
WtMstr	ABBIED600_Rev1_SPS_e	Master signal to follower	E	REx620 MICS:2015>IEC 61850-7-4:2003
PrgRec1	ABBIED600_Rev1_SPS_e	In progress 1st reclose	E	REx620 MICS:2015>IEC 61850-7-4:2003
PrgRec2	ABBIED600_Rev1_SPS_e	In progress 2nd reclose	E	REx620 MICS:2015>IEC 61850-7-4:2003
PrgRec3	ABBIED600_Rev1_SPS_e	In progress 3rd reclose	E	REx620 MICS:2015>IEC 61850-7-4:2003
PrgRec4	ABBIED600_Rev1_SPS_e	In progress 4th reclose	E	REx620 MICS:2015>IEC 61850-7-4:2003
PrgRec5	ABBIED600_Rev1_SPS_e	In progress 5th reclose	E	REx620 MICS:2015>IEC 61850-7-4:2003
PrgDsr	ABBIED600_Rev1_SPS_e	Discrimination time in progress	E	REx620 MICS:2015>IEC 61850-7-4:2003
PrgCutOut	ABBIED600_Rev1_SPS_e	Cutout time in progress	E	REx620 MICS:2015>IEC 61850-7-4:2003
FrqOpCnt	ABBIED600_Rev1_INS_e	Frequent opera-tion counter	E	REx620 MICS:2015>IEC 61850-7-4:2003
FrqOpAlm	ABBIED600_Rev1_SPS_e	Frequent opera-tion counter alarm	E	REx620 MICS:2015>IEC 61850-7-4:2003

RecRs	ABBIED600_Rev2_SPC_control_e	DARREC1 reset	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
CntRs	ABBIED600_Rev2_SPC_control_e	DARREC1 counters	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
DsaCnt	ABBIED600_Rev2_SPC_control_e	Signal for counter disabling	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
RclTmStr	ABBIED600_Rev1_SPS_e	Reclaim time started	E	REx620 MICS:2015>IEC 61850-7-4:2003
ProCrd	ABBIED600_Rev1_SPS_e	Protection coordination	E	REx620 MICS:2015>IEC 61850-7-4:2003
CBManCls	ABBIED600_Rev1_SPS_e	CB manually closed	E	REx620 MICS:2015>IEC 61850-7-4:2003
AutoRecOn	ABBIED600_Rev1_SPS_e	AR switched On	E	REx620 MICS:2015>IEC 61850-7-4:2003
ShotPntr	ABBIED600_Rev1_INS_e	Shot pointer value	E	REx620 MICS:2015>IEC 61850-7-4:2003
InRecOn	ABBIED600_Rev1_SPS_e	AR on/off control signal status	E	REx620 MICS:2015>IEC 61850-7-4:2003
InBlkRclTm	ABBIED600_Rev1_SPS_e	Block reclaim time	E	REx620 MICS:2015>IEC 61850-7-4:2003
InCBPos	ABBIED600_Rev1_SPS_e	CB position input	E	REx620 MICS:2015>IEC 61850-7-4:2003
InCBRdy	ABBIED600_Rev1_SPS_e	CB ready for reclosing	E	REx620 MICS:2015>IEC 61850-7-4:2003
InSynChk	ABBIED600_Rev1_SPS_e	Synchro check fulfilled	E	REx620 MICS:2015>IEC 61850-7-4:2003
InIncrPntr	ABBIED600_Rev1_SPS_e	Shot pointer increment by one	E	REx620 MICS:2015>IEC 61850-7-4:2003
InIni1	ABBIED600_Rev1_SPS_e	No 1 operate signal	E	REx620 MICS:2015>IEC 61850-7-4:2003
InIni2	ABBIED600_Rev1_SPS_e	No 2 operate signal	E	REx620 MICS:2015>IEC 61850-7-4:2003
InIni3	ABBIED600_Rev1_SPS_e	No 3 operate signal	E	REx620 MICS:2015>IEC 61850-7-4:2003
InIni4	ABBIED600_Rev1_SPS_e	No 4 operate signal	E	REx620 MICS:2015>IEC 61850-7-4:2003
InIni5	ABBIED600_Rev1_SPS_e	No 5 operate signal	E	REx620 MICS:2015>IEC 61850-7-4:2003
InIni6	ABBIED600_Rev1_SPS_e	No 6 operate signal	E	REx620 MICS:2015>IEC 61850-7-4:2003
InDlIni2	ABBIED600_Rev1_SPS_e	No 2 start signal	E	REx620 MICS:2015>IEC 61850-7-4:2003
InDlIni3	ABBIED600_Rev1_SPS_e	No 3 start signal	E	REx620 MICS:2015>IEC 61850-7-4:2003

InDlIni4	ABBIED600_Rev1_SPS_e	No 4 start signal	E	REx620 MICS:2015>IEC 61850-7-4:2003
RclTmEla	ABBIED600_Rev1_SPS_e	Reclaim time elapsed	E	REx620 MICS:2015>IEC 61850-7-4:2003
InBlkRecTm	ABBIED600_Rev1_SPS_e	Blocks and resets dead time	E	REx620 MICS:2015>IEC 61850-7-4:2003
SOF	ABBIED600_Rev1_SPS_e	Switch on the fault	E	REx620 MICS:2015>IEC 61850-7-4:2003
TestCtl	AB-BIED600_Rev3_INC_TestCtl_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.1.101 LN: DARREC2 Name: RREC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
OpCntRs	ABBIED600_Rev1_INC_simple_int_e	Resetable operation counter (all shots)		status-only
RecCyc	ABBIED600_Rev1_INS	Actual reclose cycle (number between 1 and UseCyc)		
OpCls	ABBIED600_Rev1_ACT_threephase	Operate (close command to XCBR)		
AutoRecSt	ABBIED600_Rev3_INS_AutoRecSt_ED1	Auto Reclosing Status		
Rec1Tmms1	ABBIED600_Rev1_ING_SP	First reclose time		
Rec1Tmms2	ABBIED600_Rev1_ING_SP	Second reclose time		
Rec1Tmms3	ABBIED600_Rev1_ING_SP	Third reclose time		
Rec1Tmms4	ABBIED600_Rev1_ING_SP	Fourth reclose time		
Rec1Tmms5	ABBIED600_Rev1_ING_SP	Fifth reclose time		
Rec1Tmms6	ABBIED600_Rev1_ING_SP	Sixth reclose time		
Rec1Tmms7	ABBIED600_Rev1_ING_SP	Seventh reclose time		
Rec3Tmms1	ABBIED600_Rev1_ING_SP	First reclose time		
Rec3Tmms2	ABBIED600_Rev1_ING_SP	Second reclose time		
Rec3Tmms3	ABBIED600_Rev1_ING_SP	Third reclose time		
Rec3Tmms4	ABBIED600_Rev1_ING_SP	Fourth reclose time		

Rec3Tmms5	ABBIED600_Rev1_ING_SP	Fifth reclose time		
Rec3Tmms6	ABBIED600_Rev1_ING_SP	Sixth reclose time		
Rec3Tmms7	ABBIED600_Rev1_ING_SP	Seventh reclose time		
RclTmms	ABBIED600_Rev1_ING_SP	Reclaim time		
OpOpn	AB-BIED600_Rev1_ACT_threephase_e	Operate (open command to XCBR)		
BlkRec	ABBIED600_Rev2_SPC_control_e	Block reclose		status-only,direct-with-normal-security
RecCnt1	ABBIED600_Rev1_INS_e	Operation counter (1st shot)	E	REx620 MICS:2015>IEC 61850-7-4:2003
RecCnt2	ABBIED600_Rev1_INS_e	Operation counter (2nd shot)	E	REx620 MICS:2015>IEC 61850-7-4:2003
RecCnt3	ABBIED600_Rev1_INS_e	Operation counter (3rd shot)	E	REx620 MICS:2015>IEC 61850-7-4:2003
RecCnt4	ABBIED600_Rev1_INS_e	Operation counter (4th shot)	E	REx620 MICS:2015>IEC 61850-7-4:2003
RecCnt5	ABBIED600_Rev1_INS_e	Operation counter (5th shot)	E	REx620 MICS:2015>IEC 61850-7-4:2003
AutoIni	ABBIED600_Rev1_ING_SP_1_e	Auto init	E	REx620 MICS:2015>IEC 61850-7-4:2003
RecOp	ABBIED600_Rev2_ENG_SP_recOp_e	Reclosing operation	E	REx620 MICS:2015>IEC 61850-7-4:2003
ManClsMod	ABBIED600_Rev1_SPG_SP_e	Manual close mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
WtClsTmms	ABBIED600_Rev1_ING_SP_e	Wait close time	E	REx620 MICS:2015>IEC 61850-7-4:2003
MaxWtT-mms	ABBIED600_Rev1_ING_SP_e	Max wait time	E	REx620 MICS:2015>IEC 61850-7-4:2003
Max-BlkTmms	ABBIED600_Rev1_ING_SP_e	Max Thm block time	E	REx620 MICS:2015>IEC 61850-7-4:2003
CutOutT-mms	ABBIED600_Rev1_ING_SP_e	Cut-out time	E	REx620 MICS:2015>IEC 61850-7-4:2003
DsrTmms1	ABBIED600_Rev1_ING_SP_e	Dsr time shot 1	E	REx620 MICS:2015>IEC 61850-7-4:2003
DsrTmms2	ABBIED600_Rev1_ING_SP_e	Dsr time shot 2	E	REx620 MICS:2015>IEC 61850-7-4:2003
DsrTmms3	ABBIED600_Rev1_ING_SP_e	Dsr time shot 3	E	REx620 MICS:2015>IEC 61850-7-4:2003
DsrTmms4	ABBIED600_Rev1_ING_SP_e	Dsr time shot 4	E	REx620 MICS:2015>IEC 61850-7-4:2003
TermPrio	ABBIED600_Rev2_ENG_SP_term-Prio_e	Terminal priority	E	REx620 MICS:2015>IEC 61850-7-4:2003
SynSet	ABBIED600_Rev1_ING_SP_1_e	Synchronisation set	E	REx620 MICS:2015>IEC 61850-7-4:2003
AutoWtT-mms	ABBIED600_Rev1_ING_SP_e	Auto wait time	E	REx620 MICS:2015>IEC 61850-7-4:2003

AutoLORs	ABBIED600_Rev1_SPG_SP_e	Auto lockout re-set	E	REx620 MICS:2015>IEC 61850-7-4:2003
ProCrdLim	ABBIED600_Rev1_ING_SP_1_e	Protection crd limit	E	REx620 MICS:2015>IEC 61850-7-4:2003
ProCrdMod	ABBIED600_Rev2_ENG_SP_proCrd-Mod_e	Protection crd mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
AutoIniCnd	ABBIED600_Rev2_ENG_SP_autoIn-iCnd_e	Auto initiation cnd	E	REx620 MICS:2015>IEC 61850-7-4:2003
TrLin	ABBIED600_Rev1_ING_SP_1_e	Tripping line	E	REx620 MICS:2015>IEC 61850-7-4:2003
CtlLin	ABBIED600_Rev1_ING_SP_1_e	Control line	E	REx620 MICS:2015>IEC 61850-7-4:2003
EnaShotJmp	ABBIED600_Rev1_SPG_SP_e	Enable shot jump	E	REx620 MICS:2015>IEC 61850-7-4:2003
CBClsPosSt	ABBIED600_Rev1_SPG_SP_e	CB closed Pos status	E	REx620 MICS:2015>IEC 61850-7-4:2003
Ena4DlSOF	ABBIED600_Rev1_SPG_SP_e	Fourth delay in SOTF	E	REx620 MICS:2015>IEC 61850-7-4:2003
IniSigCBB1	ABBIED600_Rev1_ING_SP_1_e	Init signals CBB1	E	REx620 MICS:2015>IEC 61850-7-4:2003
IniSigCBB2	ABBIED600_Rev1_ING_SP_1_e	Init signals CBB2	E	REx620 MICS:2015>IEC 61850-7-4:2003
IniSigCBB3	ABBIED600_Rev1_ING_SP_1_e	Init signals CBB3	E	REx620 MICS:2015>IEC 61850-7-4:2003
IniSigCBB4	ABBIED600_Rev1_ING_SP_1_e	Init signals CBB4	E	REx620 MICS:2015>IEC 61850-7-4:2003
IniSigCBB5	ABBIED600_Rev1_ING_SP_1_e	Init signals CBB5	E	REx620 MICS:2015>IEC 61850-7-4:2003
IniSigCBB6	ABBIED600_Rev1_ING_SP_1_e	Init signals CBB6	E	REx620 MICS:2015>IEC 61850-7-4:2003
IniSigCBB7	ABBIED600_Rev1_ING_SP_1_e	Init signals CBB7	E	REx620 MICS:2015>IEC 61850-7-4:2003
BlkSigCBB1	ABBIED600_Rev1_ING_SP_1_e	Blk signals CBB1	E	REx620 MICS:2015>IEC 61850-7-4:2003
BlkSigCBB2	ABBIED600_Rev1_ING_SP_1_e	Blk signals CBB2	E	REx620 MICS:2015>IEC 61850-7-4:2003
BlkSigCBB3	ABBIED600_Rev1_ING_SP_1_e	Blk signals CBB3	E	REx620 MICS:2015>IEC 61850-7-4:2003
BlkSigCBB4	ABBIED600_Rev1_ING_SP_1_e	Blk signals CBB4	E	REx620 MICS:2015>IEC 61850-7-4:2003
BlkSigCBB5	ABBIED600_Rev1_ING_SP_1_e	Blk signals CBB5	E	REx620 MICS:2015>IEC 61850-7-4:2003
BlkSigCBB6	ABBIED600_Rev1_ING_SP_1_e	Blk signals CBB6	E	REx620 MICS:2015>IEC 61850-7-4:2003
BlkSigCBB7	ABBIED600_Rev1_ING_SP_1_e	Blk signals CBB7	E	REx620 MICS:2015>IEC 61850-7-4:2003
ShotNum1	ABBIED600_Rev1_ING_SP_1_e	Shot number CBB1	E	REx620 MICS:2015>IEC 61850-7-4:2003

ShotNum2	ABBIED600_Rev1_ING_SP_1_e	Shot number CBB2	E	REx620 MICS:2015>IEC 61850-7-4:2003
ShotNum3	ABBIED600_Rev1_ING_SP_1_e	Shot number CBB3	E	REx620 MICS:2015>IEC 61850-7-4:2003
ShotNum4	ABBIED600_Rev1_ING_SP_1_e	Shot number CBB4	E	REx620 MICS:2015>IEC 61850-7-4:2003
ShotNum5	ABBIED600_Rev1_ING_SP_1_e	Shot number CBB5	E	REx620 MICS:2015>IEC 61850-7-4:2003
ShotNum6	ABBIED600_Rev1_ING_SP_1_e	Shot number CBB6	E	REx620 MICS:2015>IEC 61850-7-4:2003
ShotNum7	ABBIED600_Rev1_ING_SP_1_e	Shot number CBB7	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str2Tmms1	ABBIED600_Rev1_ING_SP_e	Str 2 delay shot 1	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str2Tmms2	ABBIED600_Rev1_ING_SP_e	Str 2 delay shot 2	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str2Tmms3	ABBIED600_Rev1_ING_SP_e	Str 2 delay shot 3	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str2Tmms4	ABBIED600_Rev1_ING_SP_e	Str 2 delay shot 4	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str3Tmms1	ABBIED600_Rev1_ING_SP_e	Str 3 delay shot 1	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str3Tmms2	ABBIED600_Rev1_ING_SP_e	Str 3 delay shot 2	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str3Tmms3	ABBIED600_Rev1_ING_SP_e	Str 3 delay shot 3	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str3Tmms4	ABBIED600_Rev1_ING_SP_e	Str 3 delay shot 4	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str4Tmms1	ABBIED600_Rev1_ING_SP_e	Str 4 delay shot 1	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str4Tmms2	ABBIED600_Rev1_ING_SP_e	Str 4 delay shot 2	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str4Tmms3	ABBIED600_Rev1_ING_SP_e	Str 4 delay shot 3	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str4Tmms4	ABBIED600_Rev1_ING_SP_e	Str 4 delay shot 4	E	REx620 MICS:2015>IEC 61850-7-4:2003
FrqCntLim	ABBIED600_Rev1_ING_SP_1_e	Frq Op counter limit	E	REx620 MICS:2015>IEC 61850-7-4:2003
FrqCntTmm	ABBIED600_Rev1_ING_SP_1_e	Frq Op counter time	E	REx620 MICS:2015>IEC 61850-7-4:2003
FrqRcvTmm	ABBIED600_Rev1_ING_SP_1_e	Frq Op recovery time	E	REx620 MICS:2015>IEC 61850-7-4:2003
PlsTmms	ABBIED600_Rev1_ING_SP_e	Close pulse time		
MaxTrTmms	ABBIED600_Rev1_ING_SP_e	Max trip time	E	REx620 MICS:2015>IEC 61850-7-4:2003
InInhRec	ABBIED600_Rev1_SPS_e	Inhibit reclose (status)	E	REx620 MICS:2015>IEC 61850-7-4:2003
InBlkThm	ABBIED600_Rev1_SPS_e	Thermal block (status)	E	REx620 MICS:2015>IEC 61850-7-4:2003

LO	ABBIED600_Rev1_SPS_e	Lockout status	E	REx620 MICS:2015>IEC 61850-7-4:2003
RdyRec	ABBIED600_Rev1_SPS_e	Ready reclose status	E	REx620 MICS:2015>IEC 61850-7-4:2003
ActRec	ABBIED600_Rev1_SPS_e	Active reclose status	E	REx620 MICS:2015>IEC 61850-7-4:2003
SucRec	ABBIED600_Rev1_SPS_e	Successful re-close status	E	REx620 MICS:2015>IEC 61850-7-4:2003
UnsRec	ABBIED600_Rev1_SPS_e	Unsuccessful re-close status	E	REx620 MICS:2015>IEC 61850-7-4:2003
PrgRec	ABBIED600_Rev1_SPS_e	In progress status	E	REx620 MICS:2015>IEC 61850-7-4:2003
UnsCBCls	ABBIED600_Rev1_SPS_e	Unsuccessful CB closing status	E	REx620 MICS:2015>IEC 61850-7-4:2003
WtMstr	ABBIED600_Rev1_SPS_e	Master signal to follower	E	REx620 MICS:2015>IEC 61850-7-4:2003
PrgRec1	ABBIED600_Rev1_SPS_e	In progress 1st reclose	E	REx620 MICS:2015>IEC 61850-7-4:2003
PrgRec2	ABBIED600_Rev1_SPS_e	In progress 2nd reclose	E	REx620 MICS:2015>IEC 61850-7-4:2003
PrgRec3	ABBIED600_Rev1_SPS_e	In progress 3rd reclose	E	REx620 MICS:2015>IEC 61850-7-4:2003
PrgRec4	ABBIED600_Rev1_SPS_e	In progress 4th reclose	E	REx620 MICS:2015>IEC 61850-7-4:2003
PrgRec5	ABBIED600_Rev1_SPS_e	In progress 5th reclose	E	REx620 MICS:2015>IEC 61850-7-4:2003
PrgDsr	ABBIED600_Rev1_SPS_e	Discrimination time in progress	E	REx620 MICS:2015>IEC 61850-7-4:2003
PrgCutOut	ABBIED600_Rev1_SPS_e	Cutout time in progress	E	REx620 MICS:2015>IEC 61850-7-4:2003
FrqOpCnt	ABBIED600_Rev1_INS_e	Frequent opera-tion counter	E	REx620 MICS:2015>IEC 61850-7-4:2003
FrqOpAlm	ABBIED600_Rev1_SPS_e	Frequent opera-tion counter alarm	E	REx620 MICS:2015>IEC 61850-7-4:2003
RecRs	ABBIED600_Rev2_SPC_control_e	DARREC2 reset	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-secu-rity
CntRs	ABBIED600_Rev2_SPC_control_e	DARREC2 coun-ters	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-secu-rity
DsaCnt	ABBIED600_Rev2_SPC_control_e	Signal for counter disabling	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-secu-rity
RclTmStr	ABBIED600_Rev1_SPS_e	Reclaim time started	E	REx620 MICS:2015>IEC 61850-7-4:2003

ProCrd	ABBIED600_Rev1_SPS_e	Protection coordination	E	REx620 MICS:2015>IEC 61850-7-4:2003
CBManCls	ABBIED600_Rev1_SPS_e	CB manually closed	E	REx620 MICS:2015>IEC 61850-7-4:2003
AutoRecOn	ABBIED600_Rev1_SPS_e	AR switched On	E	REx620 MICS:2015>IEC 61850-7-4:2003
ShotPntr	ABBIED600_Rev1_INS_e	Shot pointer value	E	REx620 MICS:2015>IEC 61850-7-4:2003
InRecOn	ABBIED600_Rev1_SPS_e	AR on/off control signal status	E	REx620 MICS:2015>IEC 61850-7-4:2003
InBlkRclTm	ABBIED600_Rev1_SPS_e	Block reclaim time	E	REx620 MICS:2015>IEC 61850-7-4:2003
InCBPos	ABBIED600_Rev1_SPS_e	CB position input	E	REx620 MICS:2015>IEC 61850-7-4:2003
InCBRdy	ABBIED600_Rev1_SPS_e	CB ready for reclosing	E	REx620 MICS:2015>IEC 61850-7-4:2003
InSynChk	ABBIED600_Rev1_SPS_e	Synchro check fulfilled	E	REx620 MICS:2015>IEC 61850-7-4:2003
InIncrPntr	ABBIED600_Rev1_SPS_e	Shot pointer increment by one	E	REx620 MICS:2015>IEC 61850-7-4:2003
InIni1	ABBIED600_Rev1_SPS_e	No 1 operate signal	E	REx620 MICS:2015>IEC 61850-7-4:2003
InIni2	ABBIED600_Rev1_SPS_e	No 2 operate signal	E	REx620 MICS:2015>IEC 61850-7-4:2003
InIni3	ABBIED600_Rev1_SPS_e	No 3 operate signal	E	REx620 MICS:2015>IEC 61850-7-4:2003
InIni4	ABBIED600_Rev1_SPS_e	No 4 operate signal	E	REx620 MICS:2015>IEC 61850-7-4:2003
InIni5	ABBIED600_Rev1_SPS_e	No 5 operate signal	E	REx620 MICS:2015>IEC 61850-7-4:2003
InIni6	ABBIED600_Rev1_SPS_e	No 6 operate signal	E	REx620 MICS:2015>IEC 61850-7-4:2003
InDlIni2	ABBIED600_Rev1_SPS_e	No 2 start signal	E	REx620 MICS:2015>IEC 61850-7-4:2003
InDlIni3	ABBIED600_Rev1_SPS_e	No 3 start signal	E	REx620 MICS:2015>IEC 61850-7-4:2003
InDlIni4	ABBIED600_Rev1_SPS_e	No 4 start signal	E	REx620 MICS:2015>IEC 61850-7-4:2003
RclTmEla	ABBIED600_Rev1_SPS_e	Reclaim time elapsed	E	REx620 MICS:2015>IEC 61850-7-4:2003
InBlkRecTm	ABBIED600_Rev1_SPS_e	Blocks and resets dead time	E	REx620 MICS:2015>IEC 61850-7-4:2003
SOF	ABBIED600_Rev1_SPS_e	Switch on the fault	E	REx620 MICS:2015>IEC 61850-7-4:2003
TestCtl	ABBIED600_Rev3_INC_TestCtl_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.1.102 LN: HIAPDIF1 Name: PDIF (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_Of-fOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
LoSet	ABBIED600_Rev3_ASG_SG_i_ED1	Low operate value, percentage of the nominal current		
MinOp-Tmms	ABBIED600_Rev1_ING_SG_ED1	Minimum Operate Time		
RsDlT-mms	ABBIED600_Rev1_ING_SP	Reset Delay Time		
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
TestPro	AB-BIED600_Rev2_INC_TestPro_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,di-rect-with-normal-security

6.1.103 LN: HIBPDIF1 Name: PDIF (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_Of-fOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
LoSet	ABBIED600_Rev3_ASG_SG_i_ED1	Low operate value, percentage of the nominal current		
MinOp-Tmms	ABBIED600_Rev1_ING_SG_ED1	Minimum Operate Time		
RsDlT-mms	ABBIED600_Rev1_ING_SP	Reset Delay Time		
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003

TestPro	AB-BIED600_Rev2_INC_TestPro_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.1.104 LN: HICPDIF1 Name: PDIF (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
LoSet	ABBIED600_Rev3_ASG_SG_i_ED1	Low operate value, percentage of the nominal current		
MinOpTmms	ABBIED600_Rev1_ING_SG_ED1	Minimum Operate Time		
RsDlTmms	ABBIED600_Rev1_ING_SP	Reset Delay Time		
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
TestPro	AB-BIED600_Rev2_INC_TestPro_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.1.105 LN: SECRSYN1 Name: RSYN (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Rel	ABBIED600_Rev1_SPS	Release		
VInd	ABBIED600_Rev1_SPS	Voltage Difference Indicator		
AngInd	ABBIED600_Rev1_SPS	Angle Difference Indicator		
HzInd	ABBIED600_Rev1_SPS	Frequency difference Indicator		

SynPrg	ABBIED600_Rev1_SPC_simple	Synchronising in progress		status-only
DifVClc	ABBIED600_Rev3_MV_simple_i	Calculated Difference in Voltage		
DifHzClc	ABBIED600_Rev3_MV_simple_i	Calculated Difference in Frequency		
DifAngClc	ABBIED600_Rev3_MV_simple_i	Calculated Difference of Phase Angle		
DifV	ABBIED600_Rev3_ASG_SG_i_ED1	Difference Voltage		
DifHz	ABBIED600_Rev3_ASG_SG_i_ED1	Difference Frequency		
DifAng	ABBIED600_Rev3_ASG_SG_i_ED1	Difference Phase Angle		
LivDeaMod	ABBIED600_Rev3_ENG_SG_LivDeaMod_ED1	Live Dead Mode		
DeaLinVal	ABBIED600_Rev3_ASG_SP_i	Dead Line Value		
LivLinVal	ABBIED600_Rev3_ASG_SP_i	Live Line Value		
DeaBusVal	ABBIED600_Rev3_ASG_SP_i	Dead Bus Value		
LivBusVal	ABBIED600_Rev3_ASG_SP_i	Live Bus Value		
PlsTmms	ABBIED600_Rev1_ING_SP_e	Close Pulse Time		
CBTmms	ABBIED600_Rev1_ING_SP_e	Closing time of the breaker	E	REx620 MICS:2015>IEC 61850-7-4:2003
FailCmd	ABBIED600_Rev1_SPS_e	CB closing request failed	E	REx620 MICS:2015>IEC 61850-7-4:2003
FailSyn	ABBIED600_Rev1_SPS_e	CB closing failed	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClsRq	ABBIED600_Rev1_SPS_e	External closing request	E	REx620 MICS:2015>IEC 61850-7-4:2003
Byps	ABBIED600_Rev1_SPS_e	Request to bypass synchronism check and voltage check	E	REx620 MICS:2015>IEC 61850-7-4:2003
LLDBInd	ABBIED600_Rev1_SPS_e	Live Line, Dead Bus	E	REx620 MICS:2015>IEC 61850-7-4:2003
LLLBInd	ABBIED600_Rev1_SPS_e	Live Line, Live Bus	E	REx620 MICS:2015>IEC 61850-7-4:2003
DLLBInd	ABBIED600_Rev1_SPS_e	Dead Line, Live Bus	E	REx620 MICS:2015>IEC 61850-7-4:2003

DLDBInd	ABBIED600_Rev1_SPS_e	Dead Line, Dead Bus	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpModSC	ABBIED600_Rev2_ENG_SP_OpModSC_e	Synchrocheck mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpModCtl	ABBIED600_Rev2_ENG_SP_OpModCtrl_e	Selection of synchro check command or Continuous control mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
EnSt	ABBIED600_Rev2_INS_EnergSt_ED1_e	Energization state of Line and Bus	E	REx620 MICS:2015>IEC 61850-7-4:2003
MaxVEn	ABBIED600_Rev3_ASG_SP_i_e	Maximum voltage for energizing	E	REx620 MICS:2015>IEC 61850-7-4:2003
PhSht	ABBIED600_Rev3_ASG_SP_i_e	Correction of phase difference between measured U_BUS and U_LINE	E	REx620 MICS:2015>IEC 61850-7-4:2003
EnTmms	ABBIED600_Rev1_ING_SP_e	Time delay for energizing check	E	REx620 MICS:2015>IEC 61850-7-4:2003
MaxSynTmms	ABBIED600_Rev1_ING_SP_e	Maximum time to accept synchronizing	E	REx620 MICS:2015>IEC 61850-7-4:2003
MinSynTmms	ABBIED600_Rev1_ING_SP_e	Minimum time to accept synchronizing	E	REx620 MICS:2015>IEC 61850-7-4:2003
TestCtl	ABBIED600_Rev3_INC_TestCtl_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
VSrcSw	ABBIED600_Rev1_SPG_SP_e	Voltage source switch	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.106 LN: HZCCASPVC1 Name: SPVC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1_e	Mode	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1_e	Behaviour	E	REx620 MICS:2015>IEC 61850-7-4:2003
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_lnNs_1_e	Name plate	E	REx620 MICS:2015>IEC 61850-7-4:2003

Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Alm	ABBIED600_Rev1_SPS_e	Alarm output	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1_e	Start value	E	REx620 MICS:2015>IEC 61850-7-4:2003
AlmTmms	ABBIED600_Rev1_ING_SG_ED1	Alarm delay time		
RsDlTmms	ABBIED600_Rev1_ING_SP_e	Reset Delay Time	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1	Test control for outputs		status-only,direct-with-normal-security
AMeasMod	ABBIED600_Rev3_ENG_SP_MeasMod	Selects used measurement mode		
AlmOutMod	ABBIED600_Rev2_ENG_SP_TrOutMod	Select the operation mode for alarm output		
LORs	ABBIED600_Rev2_SPC_control	Reset lockout alarm		status-only,direct-with-normal-security

6.1.107 LN: HZCCBSPVC1 Name: SPVC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1_e	Mode	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1_e	Behaviour	E	REx620 MICS:2015>IEC 61850-7-4:2003
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_lnNs_1_e	Name plate	E	REx620 MICS:2015>IEC 61850-7-4:2003
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Alm	ABBIED600_Rev1_SPS_e	Alarm output	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1_e	Start value	E	REx620 MICS:2015>IEC 61850-7-4:2003
AlmTmms	ABBIED600_Rev1_ING_SG_ED1	Alarm delay time		
RsDlTmms	ABBIED600_Rev1_ING_SP_e	Reset Delay Time	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1	Test control for outputs		status-only,direct-with-normal-security
AMeasMod	ABBIED600_Rev3_ENG_SP_MeasMod	Selects used measurement mode		

AlmOutMod	ABBIED600_Rev2_ENG_SP_TrOut-Mod	Select the operation mode for alarm output		
LORs	ABBIED600_Rev2_SPC_control	Reset lockout alarm		status-only,direct-with-normal-security

6.1.108 LN: HZCCCSPVC1 Name: SPVC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1_e	Mode	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1_e	Behaviour	E	REx620 MICS:2015>IEC 61850-7-4:2003
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_lnNs_1_e	Name plate	E	REx620 MICS:2015>IEC 61850-7-4:2003
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Alm	ABBIED600_Rev1_SPS_e	Alarm output	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1_e	Start value	E	REx620 MICS:2015>IEC 61850-7-4:2003
AlmTmms	ABBIED600_Rev1_ING_SG_ED1	Alarm delay time		
RsDlTmms	ABBIED600_Rev1_ING_SP_e	Reset Delay Time	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1	Test control for outputs		status-only,direct-with-normal-security
AMeasMod	ABBIED600_Rev3_ENG_SP_Meas-Mod	Selects used measurement mode		
AlmOutMod	ABBIED600_Rev2_ENG_SP_TrOut-Mod	Select the operation mode for alarm output		
LORs	ABBIED600_Rev2_SPC_control	Reset lockout alarm		status-only,direct-with-normal-security

6.1.109 LN: MHPDIF1 Name: PDIF (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only

Op	ABBIED600_Rev1_ACT_simple	Operate signal from high (instantaneous) stage		
Blk	ABBIED600_Rev1_SPS_simple	Blocks operate outputs from instantaneous stage		
HiSet	ABBIED600_Rev3_ASG_SG_i_ED1	High operate value		

6.1.110 LN: MLPDIF1 Name: PDIF (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Operate signal from low (stabilized) stage		
Blk	ABBIED600_Rev1_SPS_simple	Blocks operate outputs from biased stage		
DifAClc	ABBIED600_Rev3_WYE_threephase_simple_i	Differential Current		
RstA	ABBIED600_Rev3_WYE_threephase_simple_i	Restraint current		
LoSet	ABBIED600_Rev3_ASG_SG_i_ED1	Low operate value		
TestPro	ABBIED600_Rev2_INC_TestPro_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
BlkIntnSt	ABBIED600_Rev1_ACT_threephase_e	Status from waveform blocking	E	REx620 MICS:2015>IEC 61850-7-4:2003
SpeScn2	ABBIED600_Rev3_ASG_SG_i_ED1_e	Slope section 2	E	REx620 MICS:2015>IEC 61850-7-4:2003
SpeScn3	ABBIED600_Rev3_ASG_SG_i_ED1_e	Slope section 3	E	REx620 MICS:2015>IEC 61850-7-4:2003
AngLinAB	ABBIED600_Rev3_MV_simple_i_e	Current phase angle phase A to B, line side	E	REx620 MICS:2015>IEC 61850-7-4:2003
AngLinBC	ABBIED600_Rev3_MV_simple_i_e	Current phase angle phase B to C, line side	E	REx620 MICS:2015>IEC 61850-7-4:2003
AngLinCA	ABBIED600_Rev3_MV_simple_i_e	Current phase angle phase C to A, line side	E	REx620 MICS:2015>IEC 61850-7-4:2003
AngNeutAB	ABBIED600_Rev3_MV_simple_i_e	Current phase angle phase A	E	REx620 MICS:2015>IEC 61850-7-4:2003

		to B, neutral side		
AngNeutBC	ABBIED600_Rev3_MV_simple_i_e	Current phase angle phase B to C, neutral side	E	REx620 MICS:2015>IEC 61850-7-4:2003
AngNeutCA	ABBIED600_Rev3_MV_simple_i_e	Current phase angle phase C to A, neutral side	E	REx620 MICS:2015>IEC 61850-7-4:2003
An-gLinNeutA	ABBIED600_Rev3_MV_simple_i_e	Current phs an-gle diff between line and neu-tral, phase A	E	REx620 MICS:2015>IEC 61850-7-4:2003
An-gLinNeutB	ABBIED600_Rev3_MV_simple_i_e	Current phs an-gle diff between line and neu-tral, phase B	E	REx620 MICS:2015>IEC 61850-7-4:2003
An-gLinNeutC	ABBIED600_Rev3_MV_simple_i_e	Current phs an-gle diff between line and neu-tral, phase C	E	REx620 MICS:2015>IEC 61850-7-4:2003
EndScn1	ABBIED600_Rev3_ASG_SG_i_ED1_e	End section 1	E	REx620 MICS:2015>IEC 61850-7-4:2003
EndScn2	ABBIED600_Rev3_ASG_SG_i_ED1_e	End section 2	E	REx620 MICS:2015>IEC 61850-7-4:2003
CTConnTyp	AB-BIED600_Rev2_ENG_SP_CTConnTyp_e	CT connection type	E	REx620 MICS:2015>IEC 61850-7-4:2003
EnaDCBias	ABBIED600_Rev1_SPG_SG_ED1_e	Setting for ena-bling DC bias	E	REx620 MICS:2015>IEC 61850-7-4:2003
CTRatCor1	ABBIED600_Rev3_ASG_SP_i_e	CT ratio correc-tion, line side	E	REx620 MICS:2015>IEC 61850-7-4:2003
CTRatCor2	ABBIED600_Rev3_ASG_SP_i_e	CT ratio correc-tion, neutral side	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.111 LN: MHZPDIF1 Name: PDIF (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_Of-fOn_FD_ED1	Mode		status-only,direct-with-nor-mal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary out-puts		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		

DifAClc	AB-BIED600_Rev3_WYE_threephase_simple_i	Differential current		
LoSet	ABBIED600_Rev3_ASG_SG_i_ED1	Low operate value, percentage of the nominal current		
MinOpTmms	ABBIED600_Rev1_ING_SG_ED1	Minimum operate time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset delay time		
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.1.112 LN: HREFPDIF1 Name: PDIF (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
LoSet	ABBIED600_Rev3_ASG_SG_i_ED1	Low operate value, percentage of the nominal current		
MinOpTmms	ABBIED600_Rev1_ING_SG_ED1	Minimum Operate Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	AB-BIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.1.113 LN: TR2LPDIF1 Name: PDIF (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Operate signal from low (stabilized) stage		
DifAClc	ABBIED600_Rev3_WYE_threephase_simple_i	Differential Current		
RstA	ABBIED600_Rev3_WYE_threephase_simple_i	Biasing Current		
LoSet	ABBIED600_Rev3_ASG_SG_i_ED1	Low operate value		
RstMod	ABBIED600_Rev3_ENG_SG_RstMod_ED1	Restraint mode		
Blk	ABBIED600_Rev1_SPS_simple	Blocks operate outputs from biased stage		
TestPro	ABBIED600_Rev2_INC_TestPro_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
SpeScn2	ABBIED600_Rev3_ASG_SG_i_ED1_e	Slope section 2	E	REx620 MICS:2015>IEC 61850-7-4:2003
EndScn2	ABBIED600_Rev3_ASG_SG_i_ED1_e	End section 2	E	REx620 MICS:2015>IEC 61850-7-4:2003
SpeScn3	ABBIED600_Rev3_ASG_SG_i_ED1_e	Slope section 3	E	REx620 MICS:2015>IEC 61850-7-4:2003
CTConnTyp	ABBIED600_Rev2_ENG_SP_CTConnTyp_e	CT connection type	E	REx620 MICS:2015>IEC 61850-7-4:2003
Wnd1Typ	ABBIED600_Rev3_ENG_SP_Wnd1Typ_e	Winding 1 type	E	REx620 MICS:2015>IEC 61850-7-4:2003
Wnd2Typ	ABBIED600_Rev3_ENG_SP_Wnd2Typ_e	Winding 2 type	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClkNum	ABBIED600_Rev2_ENG_SP_ClkNum_e	Phase shift	E	REx620 MICS:2015>IEC 61850-7-4:2003
ZroAElm	ABBIED600_Rev4_ENG_SP_ZroAElm_e	Zro A elimination	E	REx620 MICS:2015>IEC 61850-7-4:2003
MinWndTap	ABBIED600_Rev1_ING_SP_1_e	Min winding tap	E	REx620 MICS:2015>IEC 61850-7-4:2003
MaxWndTap	ABBIED600_Rev1_ING_SP_1_e	Max winding tap	E	REx620 MICS:2015>IEC 61850-7-4:2003
TapNomLTC1	ABBIED600_Rev1_ING_SP_1_e	Tap nominal	E	REx620 MICS:2015>IEC 61850-7-4:2003
TapWnd	ABBIED600_Rev2_ENG_SP_WndSel_e	Tapped winding	E	REx620 MICS:2015>IEC 61850-7-4:2003
StepTap1	ABBIED600_Rev3_ASG_SP_i_e	Step of tap	E	REx620 MICS:2015>IEC 61850-7-4:2003

HDBlk	ABBIED600_Rev1_SPG_SG_ED1_e	Harmonic deblock 2.	E	REx620 MICS:2015>IEC 61850-7-4:2003
BlkWavSt	ABBIED600_Rev1_ACT_threephase_e	Status from waveform blocking	E	REx620 MICS:2015>IEC 61850-7-4:2003
Blk2HSt	ABBIED600_Rev1_ACT_threephase_e	Status from 2nd harmonic restraint block-ing	E	REx620 MICS:2015>IEC 61850-7-4:2003
Blk5HSt	ABBIED600_Rev1_ACT_threephase_e	Status from 5th harmonic re-straint blocking	E	REx620 MICS:2015>IEC 61850-7-4:2003
ScyAComp	ABBIED600_Rev3_WYE_threephase_sim-ple_i_e	Connection group compen-sated second-ary current	E	REx620 MICS:2015>IEC 61850-7-4:2003
PriAComp	ABBIED600_Rev3_WYE_threephase_sim-ple_i_e	Connection group compen-sated primary current	E	REx620 MICS:2015>IEC 61850-7-4:2003
AngPriAB	ABBIED600_Rev3_MV_simple_i_e	Curr ph angle A to B, winding 1	E	REx620 MICS:2015>IEC 61850-7-4:2003
AngPriBC	ABBIED600_Rev3_MV_simple_i_e	Curr ph angle B to C, winding 1	E	REx620 MICS:2015>IEC 61850-7-4:2003
AngPriCA	ABBIED600_Rev3_MV_simple_i_e	Curr ph angle C to A, winding 1	E	REx620 MICS:2015>IEC 61850-7-4:2003
AngScyAB	ABBIED600_Rev3_MV_simple_i_e	Curr ph angle A to B, winding 2	E	REx620 MICS:2015>IEC 61850-7-4:2003
AngScyBC	ABBIED600_Rev3_MV_simple_i_e	Curr ph angle B to C, winding 2	E	REx620 MICS:2015>IEC 61850-7-4:2003
AngScyCA	ABBIED600_Rev3_MV_simple_i_e	Curr ph angle C to A, winding 2	E	REx620 MICS:2015>IEC 61850-7-4:2003
AngPriScyA	ABBIED600_Rev3_MV_simple_i_e	Curr ph A wind-ing 1 to 2 angle	E	REx620 MICS:2015>IEC 61850-7-4:2003
AngPriScyB	ABBIED600_Rev3_MV_simple_i_e	Curr ph B wind-ing 1 to 2 angle	E	REx620 MICS:2015>IEC 61850-7-4:2003
AngPriScyC	ABBIED600_Rev3_MV_simple_i_e	Curr ph C winding 1 to 2 angle	E	REx620 MICS:2015>IEC 61850-7-4:2003
CTRatCor1	ABBIED600_Rev3_ASG_SP_i_e	CT ratio correc-tion, winding 1	E	REx620 MICS:2015>IEC 61850-7-4:2003
CTRatCor2	ABBIED600_Rev3_ASG_SP_i_e	CT ratio correc-tion, winding 2	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.114 LN: TR2HPDIF1 Name: PDIF (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Operate signal from high (instantaneous) stage		
HiSet	ABBIED600_Rev3_ASG_SG_i_ED1	High operate value		
Blk	ABBIED600_Rev1_SPS_simple	Blocks operate outputs from instantaneous stage		
EnaHiSet	ABBIED600_Rev1_SPG_SG_ED1_e	Enable high set	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.115 LN: LREFPDIF1 Name: PDIF (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_Of-fOn_FD_ED1	Mode		status-only,direct-with-nor-mal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	LREFPNDF1		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
DifAClc	ABBIED600_Rev3_WYE_res_simple_i	ID_COSPHI		
RstA	ABBIED600_Rev3_WYE_res_simple_i	IB		
LoSet	ABBIED600_Rev3_ASG_SG_i_ED1	Operate value		
MinOp-Tmms	ABBIED600_Rev1_ING_SG_ED1	Minimum Oper-ate Time		
RstMod	ABBIED600_Rev3_ENG_SG_Rst-Mod_ED1	Restraint mode		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary out-puts		
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	LREFPNDF1	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-se-curity
CTConnTyp	AB-BIED600_Rev2_ENG_SP_CTConnTyp_e	CT connection type	E	REx620 MICS:2015>IEC 61850-7-4:2003

Blk2HSt	ABBIED600_Rev1_ACT_simple_e	2nd harmonic restraint	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.116 LN: LREFPDIF2 Name: PDIF (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OfFOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	LREFPNDF1		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
DifAClc	ABBIED600_Rev3_WYE_res_simple_i	ID_COSPHI		
RstA	ABBIED600_Rev3_WYE_res_simple_i	IB		
LoSet	ABBIED600_Rev3_ASG_SG_i_ED1	Operate value		
MinOpTmms	ABBIED600_Rev1_ING_SG_ED1	Minimum Operate Time		
RstMod	ABBIED600_Rev3_ENG_SG_RstMod_ED1	Restraint mode		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	LREFPNDF1	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
CTConnTyp	ABBIED600_Rev2_ENG_SP_CTConnTyp_e	CT connection type	E	REx620 MICS:2015>IEC 61850-7-4:2003
Blk2HSt	ABBIED600_Rev1_ACT_simple_e	2nd harmonic restraint	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.117 LN: HREFPDIF2 Name: PDIF (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OfFOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		

Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
LoSet	ABBIED600_Rev3_ASG_SG_i_ED1	Low operate value, percentage of the nominal current		
MinOpTmms	ABBIED600_Rev1_ING_SG_ED1	Minimum Operate Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.1.118 LN: CCSPVC2 Name: SPVC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1_e	Mode	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1_e	Behaviour	E	REx620 MICS:2015>IEC 61850-7-4:2003
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_lnNs_1_e	Name plate	E	REx620 MICS:2015>IEC 61850-7-4:2003
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrVal	ABBIED600_Rev3_ASG_SP_i_e	Minimum operate current differential level	E	REx620 MICS:2015>IEC 61850-7-4:2003
MaxOpA	ABBIED600_Rev3_ASG_SP_i	Block of the function at high phase current		
FailACirc	ABBIED600_Rev1_ACT_simple	Detection of current circuit failure		
SigFailAlm	ABBIED600_Rev1_SPS	Alarm		
TestSpvn	ABBIED600_Rev3_INC_TestSpvn_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
DifAClc	ABBIED600_Rev3_WYE_res_simple_i_e	IDIFF	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.119 LN: CTSRCTF1 Name: RCTF (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OfFOn_FD_ED1_e	Mode	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1_e	Behaviour	E	REx620 MICS:2015>IEC 61850-7-4:2003
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_lnNs_1_e	Name plate	E	REx620 MICS:2015>IEC 61850-7-4:2003
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Alm	ABBIED600_Rev1_SPS_e	Alarm output	E	REx620 MICS:2015>IEC 61850-7-4:2003
Op	ABBIED600_Rev1_ACT_simple_e	CT secondary failure	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpGrp1	ABBIED600_Rev1_ACT_simple	CT secondary failure in group 1		
OpGrp2	ABBIED600_Rev1_ACT_simple	CT secondary failure in group 2		
OpGrp3	ABBIED600_Rev1_ACT_simple	CT secondary failure in group 3		
BlkInSt	ABBIED600_Rev1_ACT_simple	Function blocked internally		
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1	Test control for outputs		status-only,direct-with-normal-security
BlkValA	ABBIED600_Rev3_ASG_SP_i_e	Minimum operate current	E	REx620 MICS:2015>IEC 61850-7-4:2003
MaxOpA	ABBIED600_Rev3_ASG_SP_i	Maximum phase current		
MaxNgSeqA	ABBIED600_Rev3_ASG_SP_i	Maximum I2 current in healthy sets		

6.1.120 LN: IL1TCTR1 Name: TCTR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Mode		
Health	ABBIED600_Rev4_INS_health_ED1	Mode		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only

AmpSv	ABBIED600_Rev1_SAV_92_lite	Current (Sampled value) phase A		
ARtg	AB-BIED600_Rev3_ASG_SP_ARtg_VRtg	Primary rated current		
Cor	ABBIED600_Rev1_ASG_SP_f	Phase A Current phasor magnitude correction of an external current transformer		
AngCor	ABBIED600_Rev3_ASG_SP_i	Phase A Current phasor angle correction of an external current transformer		
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	REx620 MICS:2015>IEC 61850-7-4:2003
Wrn	ABBIED600_Rev1_SPS_e	Warning	E	REx620 MICS:2015>IEC 61850-7-4:2003
ARtgScy	ABBIED600_Rev2_ENG_SP_ARtgSec_e	Secondary rated current	E	REx620 MICS:2015>IEC 61850-7-4:2003
ARtgNom	ABBIED600_Rev1_ASG_SP_f_e	Network Nominal Current	E	REx620 MICS:2015>IEC 61850-7-4:2003,order code dependent
VRtgScyRat	ABBIED600_Rev1_ASG_SP_f_e	Rated Secondary Value	E	REx620 MICS:2015>IEC 61850-7-4:2003,order code dependent
RevPol	ABBIED600_Rev1_SPG_SP_e	Reverse polarity	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.121 LN: RESTCTR1 Name: TCTR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Mode		
Health	ABBIED600_Rev4_INS_health_ED1	Mode		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
AmpSv	ABBIED600_Rev1_SAV_92_lite	Current (Sampled value)		
ARtg	AB-BIED600_Rev3_ASG_SP_ARtg_VRtg	Primary rated current		
Cor	ABBIED600_Rev1_ASG_SP_f	Current phasor magnitude correction of an external current transformer		
AngCor	ABBIED600_Rev3_ASG_SP_i	Residual Current phasor angle correction of an external current transformer		
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	REx620 MICS:2015>IEC 61850-7-4:2003
Wrn	ABBIED600_Rev1_SPS_e	Warning	E	REx620 MICS:2015>IEC 61850-7-4:2003

ARtgScy	ABBIED600_Rev2_ENG_SP_ARt-gSec_e	Secondary rated current	E	REx620 MICS:2015>IEC 61850-7-4:2003
RevPol	ABBIED600_Rev1_SPG_SP_e	Reverse polarity	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.122 LN: UL1TVTR1 Name: TVTR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Mode		
Health	ABBIED600_Rev4_INS_health_ED1	Mode		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
VolSv	ABBIED600_Rev1_SAV_92_lite	Voltage (sampled value) phase A		
FuFail	ABBIED600_Rev1_SPS	TVTR fuse failure		
VRtg	ABBIED600_Rev3_ASG_SP_ARtg_VRtg	Primary rated voltage		
Rat	ABBIED600_Rev1_ASG_SP_f	Division ratio		
Cor	ABBIED600_Rev1_ASG_SP_f	Amplitude corr. A		
AngCor	ABBIED600_Rev3_ASG_SP_i	Angle corr. A		
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	REx620 MICS:2015>IEC 61850-7-4:2003
Wrn	ABBIED600_Rev1_SPS_e	Warning	E	REx620 MICS:2015>IEC 61850-7-4:2003
VRtgScy	ABBIED600_Rev1_ASG_SP_f_e	Secondary rated voltage	E	REx620 MICS:2015>IEC 61850-7-4:2003
VConnTyp	AB-BIED600_Rev3_ENG_SP_ConnType_e	VT connection	E	REx620 MICS:2015>IEC 61850-7-4:2003
VInTyp	ABBIED600_Rev2_ENG_SP_AnIn-Type_e	Type of the volt-age input	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.123 LN: RESTVTR1 Name: TVTR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Mode		
Health	ABBIED600_Rev4_INS_health_ED1	Mode		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
VolSv	ABBIED600_Rev1_SAV_92_lite	Voltage (sampled value)		
VRtg	AB-BIED600_Rev3_ASG_SP_ARtg_VRtg	Rated primary voltage		
Cor	ABBIED600_Rev1_ASG_SP_f	Voltage phasor magnitude correction of external volt-age transformer		

AngCor	ABBIED600_Rev3_ASG_SP_i	Residual Voltage phasor angle correction of an external voltage transformer		
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	REx620 MICS:2015>IEC 61850-7-4:2003
Wrn	ABBIED600_Rev1_SPS_e	Warning	E	REx620 MICS:2015>IEC 61850-7-4:2003
VRtgScy	ABBIED600_Rev1_ASG_SP_f_e	Rated secondary voltage	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.124 LN: UL1TVTR2 Name: TVTR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Mode		
Health	ABBIED600_Rev4_INS_health_ED1	Mode		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
VolSv	ABBIED600_Rev1_SAV_92_lite	Voltage (sampled value) phase A		
FuFail	ABBIED600_Rev1_SPS	TVTR fuse failure		
VRtg	ABBIED600_Rev3_ASG_SP_ARtg_VRtg	Primary rated voltage		
Rat	ABBIED600_Rev1_ASG_SP_f	Division ratio		order code dependent
Cor	ABBIED600_Rev1_ASG_SP_f	Phase A Voltage phasor magnitude correction of an external voltage transformer		
AngCor	ABBIED600_Rev3_ASG_SP_i	Angle corr. A		
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	REx620 MICS:2015>IEC 61850-7-4:2003
Wrn	ABBIED600_Rev1_SPS_e	Warning	E	REx620 MICS:2015>IEC 61850-7-4:2003
VRtgScy	ABBIED600_Rev1_ASG_SP_f_e	Secondary rated voltage	E	REx620 MICS:2015>IEC 61850-7-4:2003
VConnTyp	ABBIED600_Rev3_ENG_SP_ConnType_e	VT connection	E	REx620 MICS:2015>IEC 61850-7-4:2003
VInTyp	ABBIED600_Rev2_ENG_SP_AnInType_e	Type of the voltage input	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.125 LN: IL1TCTR2 Name: TCTR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

Mod	AB-BIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Mode		
Health	ABBIED600_Rev4_INS_health_ED1	Mode		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
AmpSv	ABBIED600_Rev1_SAV_92_lite	Current (Sampled value) phase A		
ARtg	AB-BIED600_Rev3_ASG_SP_ARtg_VRtg	Primary rated current		
Cor	ABBIED600_Rev1_ASG_SP_f	Phase A Current phasor magnitude correction of an external current transformer		
AngCor	ABBIED600_Rev3_ASG_SP_i	Phase A Current phasor angle correction of an external current transformer		
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	REx620 MICS:2015>IEC 61850-7-4:2003
Wrn	ABBIED600_Rev1_SPS_e	Warning	E	REx620 MICS:2015>IEC 61850-7-4:2003
ARtgScy	ABBIED600_Rev2_ENG_SP_ARtgSec_e	Secondary current	E	REx620 MICS:2015>IEC 61850-7-4:2003
ARtgNom	ABBIED600_Rev1_ASG_SP_f_e	Network Nominal Current	E	REx620 MICS:2015>IEC 61850-7-4:2003,order code dependent
VRtgScyRat	ABBIED600_Rev1_ASG_SP_f_e	Rated Secondary Value	E	REx620 MICS:2015>IEC 61850-7-4:2003,order code dependent
RevPol	ABBIED600_Rev1_SPG_SP_e	Reverse polarity	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.126 LN: RESTCTR2 Name: TCTR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Mode		
Health	ABBIED600_Rev4_INS_health_ED1	Mode		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
AmpSv	ABBIED600_Rev1_SAV_92_lite	Current (Sampled value)		
ARtg	AB-BIED600_Rev3_ASG_SP_ARtg_VRtg	Primary rated current		
Cor	ABBIED600_Rev1_ASG_SP_f	Current phasor magnitude correction of an external current transformer		
AngCor	ABBIED600_Rev3_ASG_SP_i	Residual Current phasor angle correction of an external current transformer		

Alm	ABBIED600_Rev1_SPS_e	Alarm	E	REx620 MICS:2015>IEC 61850-7-4:2003
Wrn	ABBIED600_Rev1_SPS_e	Warning	E	REx620 MICS:2015>IEC 61850-7-4:2003
ARtgScy	ABBIED600_Rev2_ENG_SP_ARt-gSec_e	Secondary rated current	E	REx620 MICS:2015>IEC 61850-7-4:2003
RevPol	ABBIED600_Rev1_SPG_SP_e	Reverse polarity	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.127 LN: UL1TVTR3 Name: TVTR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Mode		
Health	ABBIED600_Rev4_INS_health_ED1	Mode		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
VolSv	ABBIED600_Rev1_SAV_92_lite	Voltage (sampled value) phase A		
FuFail	ABBIED600_Rev1_SPS	TVTR fuse failure		
VRtg	AB-BIED600_Rev3_ASG_SP_ARtg_VRtg	Primary rated voltage		
Rat	ABBIED600_Rev1_ASG_SP_f	Division ratio		order code dependent
Cor	ABBIED600_Rev1_ASG_SP_f	Phase A Voltage phasor magnitude correction of an external voltage transformer		
AngCor	ABBIED600_Rev3_ASG_SP_i	Angle corr. A		
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	REx620 MICS:2015>IEC 61850-7-4:2003
Wrn	ABBIED600_Rev1_SPS_e	Warning	E	REx620 MICS:2015>IEC 61850-7-4:2003
VRtgScy	ABBIED600_Rev1_ASG_SP_f_e	Secondary rated voltage	E	REx620 MICS:2015>IEC 61850-7-4:2003
VConnTyp	AB-BIED600_Rev3_ENG_SP_ConnType_e	VT connection	E	REx620 MICS:2015>IEC 61850-7-4:2003
VInTyp	ABBIED600_Rev2_ENG_SP_AnIn-Type_e	Type of the voltage input	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.128 LN: SERLCCH1 Name: LCCH (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

Mod	ABBIED600_Rev1_INC_Mod_On-Off_NoBlk_ED1	SERLCCH1 on/off		status-only,direct-with-normal-security,ED1 only
Beh	ABBIED600_Rev2_INS_beh_ED1	SERLCCH1 on/off		
Health	ABBIED600_Rev4_INS_health_ED1	SERLCCH1 Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_lnNs_1	SERLCCH1		ED1 only
FibMod	AB-BIED600_Rev2_ENG_SP_FibMod_e	Fiber mode for COM1	E	REx620 MICS:2015>IEC 61850-7-4:2003
SerMod	ABBIED600_Rev2_ENG_SP_Ser-Mod_e	Serial mode for COM1	E	REx620 MICS:2015>IEC 61850-7-4:2003
CTSDlTmms	ABBIED600_Rev1_ING_SP_1_e	CTS delay for COM1	E	REx620 MICS:2015>IEC 61850-7-4:2003
RTSDlTmms	ABBIED600_Rev1_ING_SP_1_e	RTS delay for COM1	E	REx620 MICS:2015>IEC 61850-7-4:2003
SerBaudRte	ABBIED600_Rev1_ENG_SP_Bau-dRate_e	Baudrate for COM1	E	REx620 MICS:2015>IEC 61850-7-4:2003
CharRxCnt	ABBIED600_Rev1_INS_e	Number of characters received	E	REx620 MICS:2015>IEC 61850-7-4:2003
FrRxCnt	ABBIED600_Rev1_INS_e	Number of successfully received link frames	E	REx620 MICS:2015>IEC 61850-7-4:2003
RxErrCnt	ABBIED600_Rev1_INS_e	Number of discarded link frames	E	REx620 MICS:2015>IEC 61850-7-4:2003
FrTxCnt	ABBIED600_Rev1_INS_e	Number of transmitted link frames	E	REx620 MICS:2015>IEC 61850-7-4:2003
CDLosCnt	ABBIED600_Rev1_INS_e	CD lost	E	REx620 MICS:2015>IEC 61850-7-4:2003
CollCnt	ABBIED600_Rev1_INS_e	Collision	E	REx620 MICS:2015>IEC 61850-7-4:2003
CTSTmOut	ABBIED600_Rev1_INS_e	CTS timeout	E	REx620 MICS:2015>IEC 61850-7-4:2003
TxTmOutCnt	ABBIED600_Rev1_INS_e	Transmission timeout	E	REx620 MICS:2015>IEC 61850-7-4:2003
PtyErrCnt	ABBIED600_Rev1_INS_e	Number of parity errors	E	REx620 MICS:2015>IEC 61850-7-4:2003
OvRunErr	ABBIED600_Rev1_INS_e	Number of overrun errors	E	REx620 MICS:2015>IEC 61850-7-4:2003
FrErrCnt	ABBIED600_Rev1_INS_e	Framing errors	E	REx620 MICS:2015>IEC 61850-7-4:2003
ChLiv	ABBIED600_Rev1_SPS_simple	Channel Live		
LnkLiv	ABBIED600_Rev1_SPS_simple_e	Link Live	E	REx620 MICS:2015>IEC 61850-7-4:2003
CntRs	ABBIED600_Rev2_SPC_control_e	Reset Counters	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.1.129 LN: SERLCCH2 Name: LCCH (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On-Off_NoBlk_ED1	SERLCCH2 on/off		status-only,direct-with-normal-security,ED1 only
Beh	ABBIED600_Rev2_INS_beh_ED1	SERLCCH2 on/off		
Health	ABBIED600_Rev4_INS_health_ED1	SERLCCH2 Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_lnNs_1	SERLCCH2		ED1 only
FibMod	AB-BIED600_Rev2_ENG_SP_FibMod_e	Fiber mode for COM2	E	REx620 MICS:2015>IEC 61850-7-4:2003
SerMod	ABBIED600_Rev2_ENG_SP_Ser-Mod_e	Serial mode for COM2	E	REx620 MICS:2015>IEC 61850-7-4:2003
CTSDlTmms	ABBIED600_Rev1_ING_SP_1_e	CTS delay for COM2	E	REx620 MICS:2015>IEC 61850-7-4:2003
RTSDlTmms	ABBIED600_Rev1_ING_SP_1_e	RTS delay for COM2	E	REx620 MICS:2015>IEC 61850-7-4:2003
SerBaudRte	ABBIED600_Rev1_ENG_SP_Bau-dRate_e	Baudrate for COM2	E	REx620 MICS:2015>IEC 61850-7-4:2003
CharRxCnt	ABBIED600_Rev1_INS_e	Number of characters received	E	REx620 MICS:2015>IEC 61850-7-4:2003
FrRxCnt	ABBIED600_Rev1_INS_e	Number of successfully received link frames	E	REx620 MICS:2015>IEC 61850-7-4:2003
RxErrCnt	ABBIED600_Rev1_INS_e	Number of discarded link frames	E	REx620 MICS:2015>IEC 61850-7-4:2003
FrTxCnt	ABBIED600_Rev1_INS_e	Number of transmitted link frames	E	REx620 MICS:2015>IEC 61850-7-4:2003
CDLosCnt	ABBIED600_Rev1_INS_e	CD lost	E	REx620 MICS:2015>IEC 61850-7-4:2003
CollCnt	ABBIED600_Rev1_INS_e	Collision	E	REx620 MICS:2015>IEC 61850-7-4:2003
CTSTmOut	ABBIED600_Rev1_INS_e	CTS timeout	E	REx620 MICS:2015>IEC 61850-7-4:2003
TxTmOutCnt	ABBIED600_Rev1_INS_e	Transmission timeout	E	REx620 MICS:2015>IEC 61850-7-4:2003
PtyErrCnt	ABBIED600_Rev1_INS_e	Number of parity errors	E	REx620 MICS:2015>IEC 61850-7-4:2003
OvRunErr	ABBIED600_Rev1_INS_e	Number of overrun errors	E	REx620 MICS:2015>IEC 61850-7-4:2003
FrErrCnt	ABBIED600_Rev1_INS_e	Framing errors	E	REx620 MICS:2015>IEC 61850-7-4:2003
ChLiv	ABBIED600_Rev1_SPS_simple	Channel Live		
LnkLiv	ABBIED600_Rev1_SPS_simple_e	Link Live	E	REx620 MICS:2015>IEC 61850-7-4:2003
CntRs	ABBIED600_Rev2_SPC_control_e	Reset Counters	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-

				only,direct-with-normal-security

6.1.130 LN: RCHLCCH1 Name: LCCH (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only,ED1 only
Beh	ABBIED600_Rev2_INS_beh_ED1	Physical Channel behavior		
NamPlt	ABBIED600_Rev1_LPL_lnNs_1	RCHLCCH1		ED1 only
ChLiv	ABBIED600_Rev1_SPS	Physical channel status of port A		
RedChLiv	ABBIED600_Rev1_SPS	Physical channel status of port B		
LnkLiv	ABBIED600_Rev1_SPS_e	Link status of port A	E	REx620 MICS:2015>IEC 61850-7-4:2003
RedLnkLiv	ABBIED600_Rev1_SPS_e	Link status of port B	E	REx620 MICS:2015>IEC 61850-7-4:2003
RedCfg	ABBIED600_Rev1_ENG_SP_ChRed-Kind_e	Redundant mode	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.131 LN: SCHLCCH1 Name: LCCH (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only,ED1 only
Beh	ABBIED600_Rev2_INS_beh_ED1	Physical Channel behavior		
NamPlt	ABBIED600_Rev1_LPL_lnNs_1	SCHLCCH1		ED1 only
ChLiv	ABBIED600_Rev1_SPS	Physical channel status		
LnkLiv	ABBIED600_Rev1_SPS_e	Link status	E	REx620 MICS:2015>IEC 61850-7-4:2003
PortMod	ABBIED600_Rev4_ENG_SP_Eth-PortMod_e	Ethernet port mode	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.132 LN: SCHLCCH2 Name: LCCH (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only,ED1 only
Beh	ABBIED600_Rev2_INS_beh_ED1	Physical Channel behavior		
NamPlt	ABBIED600_Rev1_LPL_lnNs_1	SCHLCCH2		ED1 only
ChLiv	ABBIED600_Rev1_SPS	Physical channel status		
LnkLiv	ABBIED600_Rev1_SPS_e	Link status	E	REx620 MICS:2015>IEC 61850-7-4:2003
PortMod	ABBIED600_Rev4_ENG_SP_Eth-PortMod_e	Ethernet port mode	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.133 LN: SCHLCCH3 Name: LCCH (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mod		status-only,ED1 only
Beh	ABBIED600_Rev2_INS_beh_ED1	Physical Channel behavior		
NamPlt	ABBIED600_Rev1_LPL_lnNs_1	SCHLCCH3		ED1 only
ChLiv	ABBIED600_Rev1_SPS	Physical channel status		
LnkLiv	ABBIED600_Rev1_SPS_e	Link status	E	REx620 MICS:2015>IEC 61850-7-4:2003
PortMod	ABBIED600_Rev4_ENG_SP_Eth-PortMod_e	Ethernet port mode	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.134 LN: SMVLSVM1 Name: LSVM (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_Of-fOn_FD_ED1	Mode		status-only,direct-with-nor-mal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_lnNs_1	Name plate		ED1 only
St	ABBIED600_Rev1_SPS_simple	Status of the sub-scription		
SvCBRef	ABBIED600_Rev4_ORG_SP_1	Subscription refer-ence		

6.1.135 LN: MBSLPRT1 Name: LPRT (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_Of-fOn_FD_ED1_e	Mode	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1_e	Behaviour	E	REx620 MICS:2015>IEC 61850-7-4:2003
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev7_LPL_MBS_ED1_e	Name plate	E	REx620 MICS:2015>IEC 61850-7-4:2003
BufBkOff	ABBIED600_Rev1_ING_SP_1	Event buffer backoff value		
TCPPort	ABBIED600_Rev1_ING_SP_1	TCP listening port		
MapSel	ABBIED600_Rev1_ING_SP_1	Mapping selec-tion		
UnitAddr	ABBIED600_Rev1_ING_SP_1	Slave Address		

StrFrDl	ABBIED600_Rev1_ING_SP_1	Response start delay for serial clients		
EndFrDl	ABBIED600_Rev1_ING_SP_1	Message end delay for serial client		
FrRxCnt	ABBIED600_Rev1_INS	Number of received frames		
ChkErrCnt	ABBIED600_Rev1_INS	Number of checksum errors		
FrTxCnt	ABBIED600_Rev1_INS	Number of transmitted frames		
TxExcpCnt1	ABBIED600_Rev1_INS	Number of transmitted exception responses 01 and 02		
TxExcpCnt2	ABBIED600_Rev1_INS	Number of transmitted exception responses 03		
ChLiv	ABBIED600_Rev1_SPS_e	Communication status (True = OK, False = Not connected)	E	REx620 MICS:2015>IEC 61850-7-4:2003
CommIntnOv	ABBIED600_Rev1_SPS	Internal Overflow indication		
ConnRejSck	ABBIED600_Rev1_INS	Connection rejected due to no socket available		
ConnRejRg	ABBIED600_Rev1_INS	Connection rejected due to unregistered client		
CtlPwd1	ABBIED600_Rev3_VSG_2_20	Control Struct Password 1		
CtlPwd2	ABBIED600_Rev3_VSG_2_20	Control Struct Password 2		
CtlPwd3	ABBIED600_Rev3_VSG_2_20	Control Struct Password 3		
CtlPwd4	ABBIED600_Rev3_VSG_2_20	Control Struct Password 4		
CtlPwd5	ABBIED600_Rev3_VSG_2_20	Control Struct Password 5		
CtlPwd6	ABBIED600_Rev3_VSG_2_20	Control Struct Password 6		
CtlPwd7	ABBIED600_Rev3_VSG_2_20	Control Struct Password 7		
CtlPwd8	ABBIED600_Rev3_VSG_2_20	Control Struct Password 8		

CommPort	AB-BIED600_Rev3_ENG_SP_CommPort_ED1	Port selection		
LnkMod	ABBIED600_Rev2_ENG_SP_LnkMod	Link mode		
MBWrAuth	ABBIED600_Rev2_ENG_SP_MBWrAuth	Write authority		
EvtIdSel	ABBIED600_Rev2_ENG_SP_MBSEventID	Event ID selection		
EvtBufMod	ABBIED600_Rev2_ENG_SP_MBEvtBufMod	Event buffering mode		
CRCOrdr	ABBIED600_Rev2_ENG_SP_CRCOrd	CRC order		
TmFrm	ABBIED600_Rev2_ENG_SP_MBSTimeFormat	Time format		
CliIP	ABBIED600_Rev3_VSG_2_20	Client IP address		
SerPty	ABBIED600_Rev2_ENG_SP_SerPty	Serial parity		
CntRs	ABBIED600_Rev2_SPC_control	Diagnostic counters reset		status-only,direct-with-normal-security

6.1.136 LN: MBSLPRT2 Name: LPRT (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1_e	Mode	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1_e	Behaviour	E	REx620 MICS:2015>IEC 61850-7-4:2003
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev7_LPL_MBS_ED1_e	Name plate	E	REx620 MICS:2015>IEC 61850-7-4:2003
BufBkOff	ABBIED600_Rev1_ING_SP_1	Event buffer backoff value		
TCPPort	ABBIED600_Rev1_ING_SP_1	TCP listening port		
MapSel	ABBIED600_Rev1_ING_SP_1	Mapping selection		
UnitAddr	ABBIED600_Rev1_ING_SP_1	Slave Address		
StrFrDl	ABBIED600_Rev1_ING_SP_1	Response start delay for serial clients		
EndFrDl	ABBIED600_Rev1_ING_SP_1	Message end delay for serial client		
FrRxCnt	ABBIED600_Rev1_INS	Number of received frames		
ChkErrCnt	ABBIED600_Rev1_INS	Number of checksum errors		

FrTxCnt	ABBIED600_Rev1_INS	Number of transmitted frames		
TxExcpCnt1	ABBIED600_Rev1_INS	Number of transmitted exception responses 01 and 02		
TxExcpCnt2	ABBIED600_Rev1_INS	Number of transmitted exception responses 03		
ChLiv	ABBIED600_Rev1_SPS_e	Communication status (True = OK, False = Not connected)	E	REx620 MICS:2015>IEC 61850-7-4:2003
CommInt-nOv	ABBIED600_Rev1_SPS	Internal Overflow indication		
ConnRejSck	ABBIED600_Rev1_INS	Connection rejected due to no socket available		
ConnRejRg	ABBIED600_Rev1_INS	Connection rejected due to unregistered client		
CtlPwd1	ABBIED600_Rev3_VSG_2_20	Control Struct Password 1		
CtlPwd2	ABBIED600_Rev3_VSG_2_20	Control Struct Password 2		
CtlPwd3	ABBIED600_Rev3_VSG_2_20	Control Struct Password 3		
CtlPwd4	ABBIED600_Rev3_VSG_2_20	Control Struct Password 4		
CtlPwd5	ABBIED600_Rev3_VSG_2_20	Control Struct Password 5		
CtlPwd6	ABBIED600_Rev3_VSG_2_20	Control Struct Password 6		
CtlPwd7	ABBIED600_Rev3_VSG_2_20	Control Struct Password 7		
CtlPwd8	ABBIED600_Rev3_VSG_2_20	Control Struct Password 8		
CommPort	ABBIED600_Rev3_ENG_SP_CommPort_ED1	Port selection		
LnkMod	ABBIED600_Rev2_ENG_SP_LnkMod	Link mode		
MBWrAuth	ABBIED600_Rev2_ENG_SP_MBWrAuth	Write authority		
EvtIdSel	ABBIED600_Rev2_ENG_SP_MBSEventID	Event ID selection		
EvtBufMod	ABBIED600_Rev2_ENG_SP_MBEvtBufMod	Event buffering mode		
CRCOrdr	ABBIED600_Rev2_ENG_SP_CRCOrd	CRC order		

TmFrm	ABBIED600_Rev2_ENG_SP_MBSTimeFor-mat	Time format		
CliIP	ABBIED600_Rev3_VSG_2_20	Client IP ad-dress		
SerPty	ABBIED600_Rev2_ENG_SP_SerPty	Serial parity		
CntRs	ABBIED600_Rev2_SPC_control	Diagnostic counters reset		status-only,direct-with-normal-security

6.1.137 LN: MBSLPRT3 Name: LPRT (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_Of-fOn_FD_ED1_e	Mode	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1_e	Behaviour	E	REx620 MICS:2015>IEC 61850-7-4:2003
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev7_LPL_MBS_ED1_e	Name plate	E	REx620 MICS:2015>IEC 61850-7-4:2003
BufBkOff	ABBIED600_Rev1_ING_SP_1	Event buffer backoff value		
TCPPort	ABBIED600_Rev1_ING_SP_1	TCP listening port		
MapSel	ABBIED600_Rev1_ING_SP_1	Mapping selec-tion		
UnitAddr	ABBIED600_Rev1_ING_SP_1	Slave Address		
StrFrDl	ABBIED600_Rev1_ING_SP_1	Response start delay for serial clients		
EndFrDl	ABBIED600_Rev1_ING_SP_1	Message end delay for serial client		
FrRxCnt	ABBIED600_Rev1_INS	Number of re-ceived frames		
ChkErrCnt	ABBIED600_Rev1_INS	Number of checksum er-rors		
FrTxCnt	ABBIED600_Rev1_INS	Number of transmitted frames		
TxExcpCnt1	ABBIED600_Rev1_INS	Number of transmitted ex-ception re-sponses 01 and 02		
TxExcpCnt2	ABBIED600_Rev1_INS	Number of transmitted ex-ception re-sponses 03		

ChLiv	ABBIED600_Rev1_SPS_e	Communication status (True = OK, False = Not connected)	E	REx620 MICS:2015>IEC 61850-7-4:2003
CommInt-nOv	ABBIED600_Rev1_SPS	Internal Over-flow indication		
ConnRejSck	ABBIED600_Rev1_INS	Connection re-jected due to no socket available		
ConnRejRg	ABBIED600_Rev1_INS	Connection re-jected due to unregistered cli-ent		
CtlPwd1	ABBIED600_Rev3_VSG_2_20	Control Struct Password 1		
CtlPwd2	ABBIED600_Rev3_VSG_2_20	Control Struct Password 2		
CtlPwd3	ABBIED600_Rev3_VSG_2_20	Control Struct Password 3		
CtlPwd4	ABBIED600_Rev3_VSG_2_20	Control Struct Password 4		
CtlPwd5	ABBIED600_Rev3_VSG_2_20	Control Struct Password 5		
CtlPwd6	ABBIED600_Rev3_VSG_2_20	Control Struct Password 6		
CtlPwd7	ABBIED600_Rev3_VSG_2_20	Control Struct Password 7		
CtlPwd8	ABBIED600_Rev3_VSG_2_20	Control Struct Password 8		
CommPort	AB-BIED600_Rev3_ENG_SP_CommPort_ED1	Port selection		
LnkMod	ABBIED600_Rev2_ENG_SP_LnkMod	Link mode		
MBWrAuth	ABBIED600_Rev2_ENG_SP_MBWrAuth	Write authority		
EvtIdSel	ABBIED600_Rev2_ENG_SP_MBSEventID	Event ID selec-tion		
EvtBufMod	ABBIED600_Rev2_ENG_SP_MBEv-tBufMod	Event buffering mode		
CRCOrdr	ABBIED600_Rev2_ENG_SP_CRCOrd	CRC order		
TmFrm	ABBIED600_Rev2_ENG_SP_MBSTimeFor-mat	Time format		
CliIP	ABBIED600_Rev3_VSG_2_20	Client IP ad-dress		
SerPty	ABBIED600_Rev2_ENG_SP_SerPty	Serial parity		
CntRs	ABBIED600_Rev2_SPC_control	Diagnostic counters reset		status-only,direct-with-normal-security

6.1.138 LN: MBSLPRT4 Name: LPRT (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

Mod	ABBIED600_Rev2_INC_Mod_Of-fOn_FD_ED1_e	Mode	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1_e	Behaviour	E	REx620 MICS:2015>IEC 61850-7-4:2003
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev7_LPL_MBS_ED1_e	Name plate	E	REx620 MICS:2015>IEC 61850-7-4:2003
BufBkOff	ABBIED600_Rev1_ING_SP_1	Event buffer backoff value		
TCPPort	ABBIED600_Rev1_ING_SP_1	TCP listening port		
MapSel	ABBIED600_Rev1_ING_SP_1	Mapping selec-tion		
UnitAddr	ABBIED600_Rev1_ING_SP_1	Slave Address		
StrFrDl	ABBIED600_Rev1_ING_SP_1	Response start delay for serial clients		
EndFrDl	ABBIED600_Rev1_ING_SP_1	Message end delay for serial client		
FrRxCnt	ABBIED600_Rev1_INS	Number of re-ceived frames		
ChkErrCnt	ABBIED600_Rev1_INS	Number of checksum er-rors		
FrTxCnt	ABBIED600_Rev1_INS	Number of transmitted frames		
TxExcpCnt1	ABBIED600_Rev1_INS	Number of transmitted ex-ception re-sponses 01 and 02		
TxExcpCnt2	ABBIED600_Rev1_INS	Number of transmitted ex-ception re-sponses 03		
ChLiv	ABBIED600_Rev1_SPS_e	Communication status (True = OK, False = Not connected)	E	REx620 MICS:2015>IEC 61850-7-4:2003
CommInt-nOv	ABBIED600_Rev1_SPS	Internal Over-flow indication		
ConnRejSck	ABBIED600_Rev1_INS	Connection re-jected due to no socket available		
ConnRejRg	ABBIED600_Rev1_INS	Connection re-jected due to unregistered cli-ent		

CtlPwd1	ABBIED600_Rev3_VSG_2_20	Control Struct Password 1		
CtlPwd2	ABBIED600_Rev3_VSG_2_20	Control Struct Password 2		
CtlPwd3	ABBIED600_Rev3_VSG_2_20	Control Struct Password 3		
CtlPwd4	ABBIED600_Rev3_VSG_2_20	Control Struct Password 4		
CtlPwd5	ABBIED600_Rev3_VSG_2_20	Control Struct Password 5		
CtlPwd6	ABBIED600_Rev3_VSG_2_20	Control Struct Password 6		
CtlPwd7	ABBIED600_Rev3_VSG_2_20	Control Struct Password 7		
CtlPwd8	ABBIED600_Rev3_VSG_2_20	Control Struct Password 8		
CommPort	AB-BIED600_Rev3_ENG_SP_CommPort_ED1	Port selection		
LnkMod	ABBIED600_Rev2_ENG_SP_LnkMod	Link mode		
MBWrAuth	ABBIED600_Rev2_ENG_SP_MBWrAuth	Write authority		
EvtIdSel	ABBIED600_Rev2_ENG_SP_MBSEventID	Event ID selec-tion		
EvtBufMod	ABBIED600_Rev2_ENG_SP_MBEv-tBufMod	Event buffering mode		
CRCOrdr	ABBIED600_Rev2_ENG_SP_CRCOrd	CRC order		
TmFrm	ABBIED600_Rev2_ENG_SP_MBSTimeFor-mat	Time format		
CliIP	ABBIED600_Rev3_VSG_2_20	Client IP ad-dress		
SerPty	ABBIED600_Rev2_ENG_SP_SerPty	Serial parity		
CntRs	ABBIED600_Rev2_SPC_control	Diagnostic counters reset		status-only,direct-with-normal-security

6.1.139 LN: MBSLPRT5 Name: LPRT (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_Of-fOn_FD_ED1_e	Mode	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1_e	Behaviour	E	REx620 MICS:2015>IEC 61850-7-4:2003
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev7_LPL_MBS_ED1_e	Name plate	E	REx620 MICS:2015>IEC 61850-7-4:2003
BufBkOff	ABBIED600_Rev1_ING_SP_1	Event buffer backoff value		
TCPPort	ABBIED600_Rev1_ING_SP_1	TCP listening port		

MapSel	ABBIED600_Rev1_ING_SP_1	Mapping selection		
UnitAddr	ABBIED600_Rev1_ING_SP_1	Slave Address		
StrFrDl	ABBIED600_Rev1_ING_SP_1	Response start delay for serial clients		
EndFrDl	ABBIED600_Rev1_ING_SP_1	Message end delay for serial client		
FrRxCnt	ABBIED600_Rev1_INS	Number of received frames		
ChkErrCnt	ABBIED600_Rev1_INS	Number of checksum errors		
FrTxCnt	ABBIED600_Rev1_INS	Number of transmitted frames		
TxExcpCnt1	ABBIED600_Rev1_INS	Number of transmitted exception responses 01 and 02		
TxExcpCnt2	ABBIED600_Rev1_INS	Number of transmitted exception responses 03		
ChLiv	ABBIED600_Rev1_SPS_e	Communication status (True = OK, False = Not connected)	E	REx620 MICS:2015>IEC 61850-7-4:2003
CommIntnOv	ABBIED600_Rev1_SPS	Internal Overflow indication		
ConnRejSck	ABBIED600_Rev1_INS	Connection rejected due to no socket available		
ConnRejRg	ABBIED600_Rev1_INS	Connection rejected due to unregistered client		
CtlPwd1	ABBIED600_Rev3_VSG_2_20	Control Struct Password 1		
CtlPwd2	ABBIED600_Rev3_VSG_2_20	Control Struct Password 2		
CtlPwd3	ABBIED600_Rev3_VSG_2_20	Control Struct Password 3		
CtlPwd4	ABBIED600_Rev3_VSG_2_20	Control Struct Password 4		
CtlPwd5	ABBIED600_Rev3_VSG_2_20	Control Struct Password 5		
CtlPwd6	ABBIED600_Rev3_VSG_2_20	Control Struct Password 6		

CtlPwd7	ABBIED600_Rev3_VSG_2_20	Control Struct Password 7		
CtlPwd8	ABBIED600_Rev3_VSG_2_20	Control Struct Password 8		
CommPort	AB-BIED600_Rev3_ENG_SP_CommPort_ED1	Port selection		
LnkMod	ABBIED600_Rev2_ENG_SP_LnkMod	Link mode		
MBWrAuth	ABBIED600_Rev2_ENG_SP_MBWrAuth	Write authority		
EvtIdSel	ABBIED600_Rev2_ENG_SP_MBSEventID	Event ID selec-tion		
EvtBufMod	ABBIED600_Rev2_ENG_SP_MBEv-tBufMod	Event buffering mode		
CRCOrdr	ABBIED600_Rev2_ENG_SP_CRCOrd	CRC order		
TmFrm	ABBIED600_Rev2_ENG_SP_MBSTimeFor-mat	Time format		
CliIP	ABBIED600_Rev3_VSG_2_20	Client IP ad-dress		
SerPty	ABBIED600_Rev2_ENG_SP_SerPty	Serial parity		
CntRs	ABBIED600_Rev2_SPC_control	Diagnostic counters reset		status-only,direct-with-normal-security

6.1.140 LN: I3CLPRT1 Name: LPRT (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_Of-fOn_FD_ED1_e	Mode	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-se-curity
Beh	ABBIED600_Rev2_INS_beh_ED1_e	Behaviour	E	REx620 MICS:2015>IEC 61850-7-4:2003
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_lnNs_1_e	Name plate	E	REx620 MICS:2015>IEC 61850-7-4:2003
CommInt-nOv	ABBIED600_Rev1_SPS	Internal Over-flow		
CommPort	AB-BIED600_Rev3_ENG_SP_CommPort_ED1	Serial port		
UnitAddr	ABBIED600_Rev1_ING_SP_1	Address		
MapSel	ABBIED600_Rev1_ING_SP_1	Mapping select		order code dependent
StrFrDl	ABBIED600_Rev1_ING_SP_1	Start delay		
EndFrDl	ABBIED600_Rev1_ING_SP_1	End delay		
Cla2Tms	ABBIED600_Rev1_ING_SP_1	Class 2 interval		
Cla2Fr1	AB-BIED600_Rev2_ENG_SP_I3CCls2Frame	Class2 Frame 1 in use		
Cla2Fr2	AB-BIED600_Rev2_ENG_SP_I3CCls2Frame	Class2 Frame 2 in use		
Cla2Fr3	AB-BIED600_Rev2_ENG_SP_I3CCls2Frame	Class2 Frame 3 in use		

Cla2Fr4	AB-BIED600_Rev2_ENG_SP_I3CCls2Frame	Class2 Frame 4 in use		
UsrFcnTyp	ABBIED600_Rev1_ING_SP_1	Function Type for User Class2 Frame		
UsrInfNum	ABBIED600_Rev1_ING_SP_1	Information Number for User Class2 Frame		
Cla1OvInd	ABBIED600_Rev2_ENG_SP_I3COvInd	Class1 Buffer Overflow Indication		
Cla1FcnTyp	ABBIED600_Rev1_ING_SP_1	Function Type for Class1 Buffer Overflow Indication		
Cla1InfNum	ABBIED600_Rev1_ING_SP_1	Information Number for Class1 Buffer Overflow Indication		
Cla1OvBkOf	ABBIED600_Rev1_ING_SP_1	Backoff Range for Class1 Buffer Overflow Indication		
GIOpt	ABBIED600_Rev2_ENG_SP_I3CGIOpt	Optimize GI traffic		
DevFcnTyp	ABBIED600_Rev1_ING_SP_1	Device Function Type		
FrRxCnt	ABBIED600_Rev1_INS	Received frames		
ChkErrCnt	ABBIED600_Rev1_INS	Checksum errors		
FrTxCnt	ABBIED600_Rev1_INS	Transmitted frames		
ChLiv	ABBIED600_Rev1_SPS_e	Status	E	REx620 MICS:2015>IEC 61850-7-4:2003
Cla1Prio	ABBIED600_Rev2_ENG_SP_I3CC1Prio	Class 1 Priority		
RcdEnaMod	ABBIED600_Rev1_SPG_SP	Disturbance Recorder Enabled		
BlkMon	ABBIED600_Rev2_ENG_SP_I3CBlkMon	Blocking of Monitoring Direction		
EnCntFrz	ABBIED600_Rev2_SPC_control	Energy Counter Freeze		status-only,direct-with-normal-security
CntRs	ABBIED600_Rev2_SPC_control	Diagnostic counters reset		status-only,direct-with-normal-security

6.1.141 LN: I3CLPRT2 Name: LPRT (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OfFOn_FD_ED1_e	Mode	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1_e	Behaviour	E	REx620 MICS:2015>IEC 61850-7-4:2003
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_lnNs_1_e	Name plate	E	REx620 MICS:2015>IEC 61850-7-4:2003
CommIntnOv	ABBIED600_Rev1_SPS	Internal Overflow		
CommPort	ABBIED600_Rev3_ENG_SP_CommPort_ED1	Serial port		
UnitAddr	ABBIED600_Rev1_ING_SP_1	Address		
MapSel	ABBIED600_Rev1_ING_SP_1	Mapping select		order code dependent
StrFrDl	ABBIED600_Rev1_ING_SP_1	Start delay		
EndFrDl	ABBIED600_Rev1_ING_SP_1	End delay		
Cla2Tms	ABBIED600_Rev1_ING_SP_1	Class 2 interval		
Cla2Fr1	ABBIED600_Rev2_ENG_SP_I3CCls2Frame	Class2 Frame 1 in use		
Cla2Fr2	ABBIED600_Rev2_ENG_SP_I3CCls2Frame	Class2 Frame 2 in use		
Cla2Fr3	ABBIED600_Rev2_ENG_SP_I3CCls2Frame	Class2 Frame 3 in use		
Cla2Fr4	ABBIED600_Rev2_ENG_SP_I3CCls2Frame	Class2 Frame 4 in use		
UsrFcnTyp	ABBIED600_Rev1_ING_SP_1	Function Type for User Class2 Frame		
UsrInfNum	ABBIED600_Rev1_ING_SP_1	Information Number for User Class2 Frame		
Cla1OvInd	ABBIED600_Rev2_ENG_SP_I3COvInd	Class1 Buffer Overflow Indication		
Cla1FcnTyp	ABBIED600_Rev1_ING_SP_1	Function Type for Class1 Buffer Overflow Indication		
Cla1InfNum	ABBIED600_Rev1_ING_SP_1	Information Number for Class1 Buffer Overflow Indication		
Cla1OvBkOf	ABBIED600_Rev1_ING_SP_1	Backoff Range for Class1		

		Buffer Overflow Indication		
GIOpt	ABBIED600_Rev2_ENG_SP_I3CGIOpt	Optimize GI traffic		
DevFcnTyp	ABBIED600_Rev1_ING_SP_1	Device Function Type		
FrRxCnt	ABBIED600_Rev1_INS	Received frames		
ChkErrCnt	ABBIED600_Rev1_INS	Checksum errors		
FrTxCnt	ABBIED600_Rev1_INS	Transmitted frames		
ChLiv	ABBIED600_Rev1_SPS_e	Status	E	REx620 MICS:2015>IEC 61850-7-4:2003
Cla1Prio	ABBIED600_Rev2_ENG_SP_I3CC1Prio	Class 1 Priority		
RcdEnaMod	ABBIED600_Rev1_SPG_SP	Disturbance Recorder Enabled		
BlkMon	ABBIED600_Rev2_ENG_SP_I3CBlkMon	Blocking of Monitoring Direction		
EnCntFrz	ABBIED600_Rev2_SPC_control	Energy Counter Freeze		status-only,direct-with-normal-security
CntRs	ABBIED600_Rev2_SPC_control	Diagnostic counters reset		status-only,direct-with-normal-security

6.1.142 LN: DNPLPRT1 Name: LPRT (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1_e	Mode	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1_e	Behaviour	E	REx620 MICS:2015>IEC 61850-7-4:2003
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_lnNs_1_e	Name plate	E	REx620 MICS:2015>IEC 61850-7-4:2003
CommPort	ABBIED600_Rev3_ENG_SP_CommPort_ED1	Port selection		
UnitAddr	ABBIED600_Rev1_ING_SP_1	Unit address		
MstrAddr	ABBIED600_Rev1_ING_SP_1	Master address		
MapSel	ABBIED600_Rev1_ING_SP_1	Mapping selection		
SynIntvTmm	ABBIED600_Rev1_ING_SP_1	Need time interval		
TmFrm	ABBIED600_Rev2_ENG_SP_MBSTimeFormat	Time format		

CROBSelTms	ABBIED600_Rev1_ING_SP_1	CROB select timeout		
LnkCnf	ABBIED600_Rev2_ENG_SP_DataLinkConfirm	Data link confirm		
LnkCnfTmms	ABBIED600_Rev1_ING_SP_1	Data link confirm TO		
LnkReLim	ABBIED600_Rev1_ING_SP_1	Data link retries		
RxTxDlTmms	ABBIED600_Rev1_ING_SP_1	Data link Rx to Tx delay		
CharDl	ABBIED600_Rev1_ING_SP_1	Data link inter char delay		
AplLayCnf	ABBIED600_Rev2_ENG_SP_Enable	App layer confirm		
AplCnfTmms	ABBIED600_Rev1_ING_SP_1	App confirm TO		
AplLayFrg	ABBIED600_Rev1_ING_SP_1	App layer fragment		
URMod	ABBIED600_Rev2_ENG_SP_Enable	UR mode		
URRe	ABBIED600_Rev1_ING_SP_1	UR retries		
URReTmms	ABBIED600_Rev1_ING_SP_1	UR TO		
UROfTm	ABBIED600_Rev4_ING_SP_Unit	UR offline interval		
URCla1	ABBIED600_Rev1_ING_SP_1	UR Class 1 Min events		
URCla1Tmms	ABBIED600_Rev1_ING_SP_1	UR Class 1 TO		
URCla2	ABBIED600_Rev1_ING_SP_1	UR Class 2 Min events		
URCla2Tmms	ABBIED600_Rev1_ING_SP_1	UR Class 2 TO		
URCla3	ABBIED600_Rev1_ING_SP_1	UR Class 3 Min events		
URCla3Tmms	ABBIED600_Rev1_ING_SP_1	UR Class 3 TO		
URLgcyMod	ABBIED600_Rev2_ENG_SP_Enable	Legacy master UR		
SBOLgcyMod	ABBIED600_Rev2_ENG_SP_Enable	Legacy master SBO		
DftVa1	ABBIED600_Rev1_ENG_SP_DNPDefVari01	Default Var Obj 01		
DftVa2	ABBIED600_Rev1_ENG_SP_DNPDefVari02	Default Var Obj 02		
DftVa3	ABBIED600_Rev1_ENG_SP_DNPDefVari03	Default Var Obj 03		
DftVa4	ABBIED600_Rev1_ENG_SP_DNPDefVari04	Default Var Obj 04		

DftVa20	AB-BIED600_Rev1_ENG_SP_DNPDefVari20	Default Var Obj 20		
DftVa21	AB-BIED600_Rev2_ENG_SP_DNPDefVari21	Default Var Obj 21		
DftVa22	AB-BIED600_Rev1_ENG_SP_DNPDefVari22	Default Var Obj 22		
DftVa23	AB-BIED600_Rev1_ENG_SP_DNPDefVari23	Default Var Obj 23		
DftVa30	AB-BIED600_Rev1_ENG_SP_DNPDefVari30	Default Var Obj 30		
DftVa32	AB-BIED600_Rev1_ENG_SP_DNPDefVari32	Default Var Obj 32		
DftVa40	AB-BIED600_Rev1_ENG_SP_DNPDefVari40	Default Var Obj 40		
DftVa42	AB-BIED600_Rev1_ENG_SP_DNPDefVari42	Default Var Obj 42		
VldAddr	ABBIED600_Rev2_ENG_SP_Enable	Validate Master Addr		
SelfAddr	ABBIED600_Rev2_ENG_SP_Enable	Self Address Support		
ChLivTms	ABBIED600_Rev1_ING_SP_1_e	Link keep-alive TO	E	REx620 MICS:2015>IEC 61850-7-4:2003
TCPAuth	ABBIED600_Rev1_ENG_SP_TCPAuth	TCP control authority		
TCPPort	ABBIED600_Rev1_ING_SP_1	TCP port		
ChLiv	ABBIED600_Rev1_SPS_e	Status	E	REx620 MICS:2015>IEC 61850-7-4:2003
CommIntnOv	ABBIED600_Rev1_SPS	Internal Overflow		
IntnOvCnt	ABBIED600_Rev1_INS	Internal Overflow Counter		
FrRxCnt	ABBIED600_Rev1_INS	Received frames		
FrTxCnt	ABBIED600_Rev1_INS	Transmitted frames		
LnkErrCnt	ABBIED600_Rev1_INS	Link errors		
PhyErrCnt	ABBIED600_Rev1_INS	Physical errors		
TranErrCnt	ABBIED600_Rev1_INS	Transport errors		
MapErrCnt	ABBIED600_Rev1_INS	Mapping errors		
CliIP	ABBIED600_Rev3_VSG_2_20	Client IP address		
CntRs	ABBIED600_Rev2_SPC_control	Diagnostic counters reset		status-only,direct-with-normal-security

6.1.143 LN: DNPLPRT2 Name: LPRT (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OfFOn_FD_ED1_e	Mode	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1_e	Behaviour	E	REx620 MICS:2015>IEC 61850-7-4:2003
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_lnNs_1_e	Name plate	E	REx620 MICS:2015>IEC 61850-7-4:2003
CommPort	ABBIED600_Rev3_ENG_SP_CommPort_ED1	Port selection		
UnitAddr	ABBIED600_Rev1_ING_SP_1	Unit address		
MstrAddr	ABBIED600_Rev1_ING_SP_1	Master address		
MapSel	ABBIED600_Rev1_ING_SP_1	Mapping selection		
SynIntvTmm	ABBIED600_Rev1_ING_SP_1	Need time interval		
TmFrm	ABBIED600_Rev2_ENG_SP_MBSTimeFormat	Time format		
CROBSelTms	ABBIED600_Rev1_ING_SP_1	CROB select timeout		
LnkCnf	ABBIED600_Rev2_ENG_SP_DataLinkConfirm	Data link confirm		
LnkCnfTmms	ABBIED600_Rev1_ING_SP_1	Data link confirm TO		
LnkReLim	ABBIED600_Rev1_ING_SP_1	Data link retries		
RxTxDlTmms	ABBIED600_Rev1_ING_SP_1	Data link Rx to Tx delay		
CharDl	ABBIED600_Rev1_ING_SP_1	Data link inter char delay		
AplLayCnf	ABBIED600_Rev2_ENG_SP_Enable	App layer confirm		
AplCnfTmms	ABBIED600_Rev1_ING_SP_1	App confirm TO		
AplLayFrg	ABBIED600_Rev1_ING_SP_1	App layer fragment		
URMod	ABBIED600_Rev2_ENG_SP_Enable	UR mode		
URRe	ABBIED600_Rev1_ING_SP_1	UR retries		
URReTmms	ABBIED600_Rev1_ING_SP_1	UR TO		
UROfTm	ABBIED600_Rev4_ING_SP_Unit	UR offline interval		

URCla1	ABBIED600_Rev1_ING_SP_1	UR Class 1 Min events		
URCla1Tmms	ABBIED600_Rev1_ING_SP_1	UR Class 1 TO		
URCla2	ABBIED600_Rev1_ING_SP_1	UR Class 2 Min events		
URCla2Tmms	ABBIED600_Rev1_ING_SP_1	UR Class 2 TO		
URCla3	ABBIED600_Rev1_ING_SP_1	UR Class 3 Min events		
URCla3Tmms	ABBIED600_Rev1_ING_SP_1	UR Class 3 TO		
URLgcyMod	ABBIED600_Rev2_ENG_SP_Enable	Legacy master UR		
SBOLgcyMod	ABBIED600_Rev2_ENG_SP_Enable	Legacy master SBO		
DftVa1	AB-BIED600_Rev1_ENG_SP_DNPDefVari01	Default Var Obj 01		
DftVa2	AB-BIED600_Rev1_ENG_SP_DNPDefVari02	Default Var Obj 02		
DftVa3	AB-BIED600_Rev1_ENG_SP_DNPDefVari03	Default Var Obj 03		
DftVa4	AB-BIED600_Rev1_ENG_SP_DNPDefVari04	Default Var Obj 04		
DftVa20	AB-BIED600_Rev1_ENG_SP_DNPDefVari20	Default Var Obj 20		
DftVa21	AB-BIED600_Rev2_ENG_SP_DNPDefVari21	Default Var Obj 21		
DftVa22	AB-BIED600_Rev1_ENG_SP_DNPDefVari22	Default Var Obj 22		
DftVa23	AB-BIED600_Rev1_ENG_SP_DNPDefVari23	Default Var Obj 23		
DftVa30	AB-BIED600_Rev1_ENG_SP_DNPDefVari30	Default Var Obj 30		
DftVa32	AB-BIED600_Rev1_ENG_SP_DNPDefVari32	Default Var Obj 32		
DftVa40	AB-BIED600_Rev1_ENG_SP_DNPDefVari40	Default Var Obj 40		
DftVa42	AB-BIED600_Rev1_ENG_SP_DNPDefVari42	Default Var Obj 42		
VldAddr	ABBIED600_Rev2_ENG_SP_Enable	Validate Master Addr		
SelfAddr	ABBIED600_Rev2_ENG_SP_Enable	Self Ad-dress Sup-port		
ChLivTms	ABBIED600_Rev1_ING_SP_1_e	Link keep-alive TO	E	REx620 MICS:2015>IEC 61850-7-4:2003
TCPAuth	ABBIED600_Rev1_ENG_SP_TCPAuth	TCP control authority		

TCPPort	ABBIED600_Rev1_ING_SP_1	TCP port		
ChLiv	ABBIED600_Rev1_SPS_e	Status	E	REx620 MICS:2015>IEC 61850-7-4:2003
FrRxCnt	ABBIED600_Rev1_INS	Received frames		
FrTxCnt	ABBIED600_Rev1_INS	Transmitted frames		
LnkErrCnt	ABBIED600_Rev1_INS	Link errors		
PhyErrCnt	ABBIED600_Rev1_INS	Physical errors		
TranErrCnt	ABBIED600_Rev1_INS	Transport errors		
MapErrCnt	ABBIED600_Rev1_INS	Mapping errors		
CliIP	ABBIED600_Rev3_VSG_2_20	Client IP address		
CntRs	ABBIED600_Rev2_SPC_control	Diagnostic counters reset		status-only,direct-with-normal-security

6.1.144 LN: DNPLPRT3 Name: LPRT (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1_e	Mode	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1_e	Behaviour	E	REx620 MICS:2015>IEC 61850-7-4:2003
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_lnNs_1_e	Name plate	E	REx620 MICS:2015>IEC 61850-7-4:2003
CommPort	ABBIED600_Rev3_ENG_SP_CommPort_ED1	Port selection		
UnitAddr	ABBIED600_Rev1_ING_SP_1	Unit address		
MstrAddr	ABBIED600_Rev1_ING_SP_1	Master address		
MapSel	ABBIED600_Rev1_ING_SP_1	Mapping selection		
SynIntvTmm	ABBIED600_Rev1_ING_SP_1	Need time interval		
TmFrm	ABBIED600_Rev2_ENG_SP_MBSTimeFormat	Time format		
CROBSelTms	ABBIED600_Rev1_ING_SP_1	CROB select timeout		
LnkCnf	ABBIED600_Rev2_ENG_SP_DataLinkConfirm	Data link confirm		

LnkCnfTmms	ABBIED600_Rev1_ING_SP_1	Data link confirm TO		
LnkReLim	ABBIED600_Rev1_ING_SP_1	Data link retries		
RxTxDlTmms	ABBIED600_Rev1_ING_SP_1	Data link Rx to Tx delay		
CharDl	ABBIED600_Rev1_ING_SP_1	Data link inter char delay		
AplLayCnf	ABBIED600_Rev2_ENG_SP_Enable	App layer confirm		
AplCnfTmms	ABBIED600_Rev1_ING_SP_1	App confirm TO		
AplLayFrg	ABBIED600_Rev1_ING_SP_1	App layer fragment		
URMod	ABBIED600_Rev2_ENG_SP_Enable	UR mode		
URRe	ABBIED600_Rev1_ING_SP_1	UR retries		
URReTmms	ABBIED600_Rev1_ING_SP_1	UR TO		
UROfTm	ABBIED600_Rev4_ING_SP_Unit	UR offline interval		
URCla1	ABBIED600_Rev1_ING_SP_1	UR Class 1 Min events		
URCla1Tmms	ABBIED600_Rev1_ING_SP_1	UR Class 1 TO		
URCla2	ABBIED600_Rev1_ING_SP_1	UR Class 2 Min events		
URCla2Tmms	ABBIED600_Rev1_ING_SP_1	UR Class 2 TO		
URCla3	ABBIED600_Rev1_ING_SP_1	UR Class 3 Min events		
URCla3Tmms	ABBIED600_Rev1_ING_SP_1	UR Class 3 TO		
URLgcyMod	ABBIED600_Rev2_ENG_SP_Enable	Legacy master UR		
SBOLgcyMod	ABBIED600_Rev2_ENG_SP_Enable	Legacy master SBO		
DftVa1	ABBIED600_Rev1_ENG_SP_DNPDefVari01	Default Var Obj 01		
DftVa2	ABBIED600_Rev1_ENG_SP_DNPDefVari02	Default Var Obj 02		
DftVa3	ABBIED600_Rev1_ENG_SP_DNPDefVari03	Default Var Obj 03		
DftVa4	ABBIED600_Rev1_ENG_SP_DNPDefVari04	Default Var Obj 04		
DftVa20	ABBIED600_Rev1_ENG_SP_DNPDefVari20	Default Var Obj 20		
DftVa21	ABBIED600_Rev2_ENG_SP_DNPDefVari21	Default Var Obj 21		

DftVa22	AB-BIED600_Rev1_ENG_SP_DNPDefVari22	Default Var Obj 22		
DftVa23	AB-BIED600_Rev1_ENG_SP_DNPDefVari23	Default Var Obj 23		
DftVa30	AB-BIED600_Rev1_ENG_SP_DNPDefVari30	Default Var Obj 30		
DftVa32	AB-BIED600_Rev1_ENG_SP_DNPDefVari32	Default Var Obj 32		
DftVa40	AB-BIED600_Rev1_ENG_SP_DNPDefVari40	Default Var Obj 40		
DftVa42	AB-BIED600_Rev1_ENG_SP_DNPDefVari42	Default Var Obj 42		
VldAddr	ABBIED600_Rev2_ENG_SP_Enable	Validate Master Addr		
SelfAddr	ABBIED600_Rev2_ENG_SP_Enable	Self Address Support		
ChLivTms	ABBIED600_Rev1_ING_SP_1_e	Link keep-alive TO	E	REx620 MICS:2015>IEC 61850-7-4:2003
TCPAuth	ABBIED600_Rev1_ENG_SP_TCPAuth	TCP control authority		
TCPPort	ABBIED600_Rev1_ING_SP_1	TCP port		
ChLiv	ABBIED600_Rev1_SPS_e	Status	E	REx620 MICS:2015>IEC 61850-7-4:2003
FrRxCnt	ABBIED600_Rev1_INS	Received frames		
FrTxCnt	ABBIED600_Rev1_INS	Transmitted frames		
LnkErrCnt	ABBIED600_Rev1_INS	Link errors		
PhyErrCnt	ABBIED600_Rev1_INS	Physical errors		
TranErrCnt	ABBIED600_Rev1_INS	Transport errors		
MapErrCnt	ABBIED600_Rev1_INS	Mapping errors		
CliIP	ABBIED600_Rev3_VSG_2_20	Client IP address		
CntRs	ABBIED600_Rev2_SPC_control	Diagnostic counters reset		status-only,direct-with-normal-security

6.1.145 LN: DNPLPRT4 Name: LPRT (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1_e	Mode	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1_e	Behaviour	E	REx620 MICS:2015>IEC 61850-7-4:2003

Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_lnNs_1_e	Name plate	E	REx620 MICS:2015>IEC 61850-7-4:2003
CommPort	AB-BIED600_Rev3_ENG_SP_CommPort_ED1	Port selec-tion		
UnitAddr	ABBIED600_Rev1_ING_SP_1	Unit ad-dress		
MstrAddr	ABBIED600_Rev1_ING_SP_1	Master ad-dress		
MapSel	ABBIED600_Rev1_ING_SP_1	Mapping se-lection		
SynIntvTmm	ABBIED600_Rev1_ING_SP_1	Need time interval		
TmFrm	ABBIED600_Rev2_ENG_SP_MBSTimeFor-mat	Time format		
CROBSelTms	ABBIED600_Rev1_ING_SP_1	CROB se-lect timeout		
LnkCnf	ABBIED600_Rev2_ENG_SP_DataLinkCon-firm	Data link confirm		
LnkCnfTmms	ABBIED600_Rev1_ING_SP_1	Data link confirm TO		
LnkReLim	ABBIED600_Rev1_ING_SP_1	Data link re-tries		
RxTxDlTmms	ABBIED600_Rev1_ING_SP_1	Data link Rx to Tx delay		
CharDl	ABBIED600_Rev1_ING_SP_1	Data link in-ter char de-lay		
AplLayCnf	ABBIED600_Rev2_ENG_SP_Enable	App layer confirm		
AplCnfTmms	ABBIED600_Rev1_ING_SP_1	App confirm TO		
AplLayFrg	ABBIED600_Rev1_ING_SP_1	App layer fragment		
URMod	ABBIED600_Rev2_ENG_SP_Enable	UR mode		
URRe	ABBIED600_Rev1_ING_SP_1	UR retries		
URReTmms	ABBIED600_Rev1_ING_SP_1	UR TO		
UROfTm	ABBIED600_Rev4_ING_SP_Unit	UR offline interval		
URCla1	ABBIED600_Rev1_ING_SP_1	UR Class 1 Min events		
URCla1Tmms	ABBIED600_Rev1_ING_SP_1	UR Class 1 TO		
URCla2	ABBIED600_Rev1_ING_SP_1	UR Class 2 Min events		
URCla2Tmms	ABBIED600_Rev1_ING_SP_1	UR Class 2 TO		
URCla3	ABBIED600_Rev1_ING_SP_1	UR Class 3 Min events		

URCla3Tmms	ABBIED600_Rev1_ING_SP_1	UR Class 3 TO		
URLgcyMod	ABBIED600_Rev2_ENG_SP_Enable	Legacy master UR		
SBOLgcyMod	ABBIED600_Rev2_ENG_SP_Enable	Legacy master SBO		
DftVa1	AB-BIED600_Rev1_ENG_SP_DNPDefVari01	Default Var Obj 01		
DftVa2	AB-BIED600_Rev1_ENG_SP_DNPDefVari02	Default Var Obj 02		
DftVa3	AB-BIED600_Rev1_ENG_SP_DNPDefVari03	Default Var Obj 03		
DftVa4	AB-BIED600_Rev1_ENG_SP_DNPDefVari04	Default Var Obj 04		
DftVa20	AB-BIED600_Rev1_ENG_SP_DNPDefVari20	Default Var Obj 20		
DftVa21	AB-BIED600_Rev2_ENG_SP_DNPDefVari21	Default Var Obj 21		
DftVa22	AB-BIED600_Rev1_ENG_SP_DNPDefVari22	Default Var Obj 22		
DftVa23	AB-BIED600_Rev1_ENG_SP_DNPDefVari23	Default Var Obj 23		
DftVa30	AB-BIED600_Rev1_ENG_SP_DNPDefVari30	Default Var Obj 30		
DftVa32	AB-BIED600_Rev1_ENG_SP_DNPDefVari32	Default Var Obj 32		
DftVa40	AB-BIED600_Rev1_ENG_SP_DNPDefVari40	Default Var Obj 40		
DftVa42	AB-BIED600_Rev1_ENG_SP_DNPDefVari42	Default Var Obj 42		
VldAddr	ABBIED600_Rev2_ENG_SP_Enable	Validate Master Addr		
SelfAddr	ABBIED600_Rev2_ENG_SP_Enable	Self Ad-dress Sup-port		
ChLivTms	ABBIED600_Rev1_ING_SP_1_e	Link keep-alive TO	E	REx620 MICS:2015>IEC 61850-7-4:2003
TCPAuth	ABBIED600_Rev1_ENG_SP_TCPAuth	TCP control authority		
TCPPort	ABBIED600_Rev1_ING_SP_1	TCP port		
ChLiv	ABBIED600_Rev1_SPS_e	Status	E	REx620 MICS:2015>IEC 61850-7-4:2003
FrRxCnt	ABBIED600_Rev1_INS	Received frames		
FrTxCnt	ABBIED600_Rev1_INS	Transmitted frames		
LnkErrCnt	ABBIED600_Rev1_INS	Link errors		
PhyErrCnt	ABBIED600_Rev1_INS	Physical er-rors		

TranErrCnt	ABBIED600_Rev1_INS	Transport errors		
MapErrCnt	ABBIED600_Rev1_INS	Mapping errors		
CliIP	ABBIED600_Rev3_VSG_2_20	Client IP address		
CntRs	ABBIED600_Rev2_SPC_control	Diagnostic counters reset		status-only,direct-with-normal-security

6.1.146 LN: DNPLPRT5 Name: LPRT (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1_e	Mode	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1_e	Behaviour	E	REx620 MICS:2015>IEC 61850-7-4:2003
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_lnNs_1_e	Name plate	E	REx620 MICS:2015>IEC 61850-7-4:2003
CommPort	ABBIED600_Rev3_ENG_SP_CommPort_ED1	Port selection		
UnitAddr	ABBIED600_Rev1_ING_SP_1	Unit address		
MstrAddr	ABBIED600_Rev1_ING_SP_1	Master address		
MapSel	ABBIED600_Rev1_ING_SP_1	Mapping selection		
SynIntvTmm	ABBIED600_Rev1_ING_SP_1	Need time interval		
TmFrm	ABBIED600_Rev2_ENG_SP_MBSTimeFormat	Time format		
CROBSelTms	ABBIED600_Rev1_ING_SP_1	CROB select timeout		
LnkCnf	ABBIED600_Rev2_ENG_SP_DataLinkConfirm	Data link confirm		
LnkCnfTmms	ABBIED600_Rev1_ING_SP_1	Data link confirm TO		
LnkReLim	ABBIED600_Rev1_ING_SP_1	Data link retries		
RxTxDlTmms	ABBIED600_Rev1_ING_SP_1	Data link Rx to Tx delay		
CharDl	ABBIED600_Rev1_ING_SP_1	Data link inter char delay		
AplLayCnf	ABBIED600_Rev2_ENG_SP_Enable	App layer confirm		

AplCnfTmms	ABBIED600_Rev1_ING_SP_1	App confirm TO		
AplLayFrg	ABBIED600_Rev1_ING_SP_1	App layer fragment		
URMod	ABBIED600_Rev2_ENG_SP_Enable	UR mode		
URRe	ABBIED600_Rev1_ING_SP_1	UR retries		
URReTmms	ABBIED600_Rev1_ING_SP_1	UR TO		
UROfTm	ABBIED600_Rev4_ING_SP_Unit	UR offline interval		
URCla1	ABBIED600_Rev1_ING_SP_1	UR Class 1 Min events		
URCla1Tmms	ABBIED600_Rev1_ING_SP_1	UR Class 1 TO		
URCla2	ABBIED600_Rev1_ING_SP_1	UR Class 2 Min events		
URCla2Tmms	ABBIED600_Rev1_ING_SP_1	UR Class 2 TO		
URCla3	ABBIED600_Rev1_ING_SP_1	UR Class 3 Min events		
URCla3Tmms	ABBIED600_Rev1_ING_SP_1	UR Class 3 TO		
URLgcyMod	ABBIED600_Rev2_ENG_SP_Enable	Legacy master UR		
SBOLgcyMod	ABBIED600_Rev2_ENG_SP_Enable	Legacy master SBO		
DftVa1	AB-BIED600_Rev1_ENG_SP_DNPDefVari01	Default Var Obj 01		
DftVa2	AB-BIED600_Rev1_ENG_SP_DNPDefVari02	Default Var Obj 02		
DftVa3	AB-BIED600_Rev1_ENG_SP_DNPDefVari03	Default Var Obj 03		
DftVa4	AB-BIED600_Rev1_ENG_SP_DNPDefVari04	Default Var Obj 04		
DftVa20	AB-BIED600_Rev1_ENG_SP_DNPDefVari20	Default Var Obj 20		
DftVa21	AB-BIED600_Rev2_ENG_SP_DNPDefVari21	Default Var Obj 21		
DftVa22	AB-BIED600_Rev1_ENG_SP_DNPDefVari22	Default Var Obj 22		
DftVa23	AB-BIED600_Rev1_ENG_SP_DNPDefVari23	Default Var Obj 23		
DftVa30	AB-BIED600_Rev1_ENG_SP_DNPDefVari30	Default Var Obj 30		
DftVa32	AB-BIED600_Rev1_ENG_SP_DNPDefVari32	Default Var Obj 32		
DftVa40	AB-BIED600_Rev1_ENG_SP_DNPDefVari40	Default Var Obj 40		
DftVa42	AB-BIED600_Rev1_ENG_SP_DNPDefVari42	Default Var Obj 42		

VldAddr	ABBIED600_Rev2_ENG_SP_Enable	Validate Master Addr		
SelfAddr	ABBIED600_Rev2_ENG_SP_Enable	Self Address Support		
ChLivTms	ABBIED600_Rev1_ING_SP_1_e	Link keep-alive TO	E	REx620 MICS:2015>IEC 61850-7-4:2003
TCPAuth	ABBIED600_Rev1_ENG_SP_TCPAuth	TCP control authority		
TCPPort	ABBIED600_Rev1_ING_SP_1	TCP port		
ChLiv	ABBIED600_Rev1_SPS_e	Status	E	REx620 MICS:2015>IEC 61850-7-4:2003
FrRxCnt	ABBIED600_Rev1_INS	Received frames		
FrTxCnt	ABBIED600_Rev1_INS	Transmitted frames		
LnkErrCnt	ABBIED600_Rev1_INS	Link errors		
PhyErrCnt	ABBIED600_Rev1_INS	Physical errors		
TranErrCnt	ABBIED600_Rev1_INS	Transport errors		
MapErrCnt	ABBIED600_Rev1_INS	Mapping errors		
CliIPAddr	ABBIED600_Rev3_VSG_2_20	Client IP address		
CntRs	ABBIED600_Rev2_SPC_control	Diagnostic counters reset		status-only,direct-with-normal-security

6.1.147 LN: SCEFRFLO1 Name: RFLO (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
FltZ	ABBIED600_Rev3_CMV_S_1	Fault loop impedance		
FltDiskm	ABBIED600_Rev3_MV_simple_i	Fault distance		
FltLoop	ABBIED600_Rev5_INS_FltLoop_ED1	Fault loop		
RcdBlk	ABBIED600_Rev1_SPS_simple_e	Signal for blocking the triggering	E	REx620 MICS:2015>IEC 61850-7-4:2003
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	REx620 MICS:2015>IEC 61850-7-4:2003
TrgSt	ABBIED600_Rev1_SPS_e	Triggered	E	REx620 MICS:2015>IEC 61850-7-4:2003

FltPtR	ABBIED600_Rev3_MV_simple_i_e	Fault point resistance	E	REx620 MICS:2015>IEC 61850-7-4:2003
FltR	ABBIED600_Rev3_MV_simple_i_e	Fault loop resistance	E	REx620 MICS:2015>IEC 61850-7-4:2003
FltX	ABBIED600_Rev3_MV_simple_i_e	Fault loop reactance	E	REx620 MICS:2015>IEC 61850-7-4:2003
PhReact	ABBIED600_Rev3_MV_simple_i_e	Fault phase reactance	E	REx620 MICS:2015>IEC 61850-7-4:2003
RatFltALod	ABBIED600_Rev3_MV_simple_i_e	Fault to load current ratio	E	REx620 MICS:2015>IEC 61850-7-4:2003
EqDisLod	ABBIED600_Rev3_MV_simple_i_e	Estimated equivalent load distance	E	REx620 MICS:2015>IEC 61850-7-4:2003
PhGndCapac	ABBIED600_Rev3_MV_simple_i_e	Estimated PE capacitive reactance of the line	E	REx620 MICS:2015>IEC 61850-7-4:2003
Trg	ABBIED600_Rev2_SPC_control_e	Triggering signal for distance calculation	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
TrgXC0F	ABBIED600_Rev2_SPC_control_e	Triggering signal for XC0F calculation	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
RcdRs	ABBIED600_Rev2_SPC_control_e	Recorded data reset	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
FltDisQ	ABBIED600_Rev1_INS_e	Fault distance quality	E	REx620 MICS:2015>IEC 61850-7-4:2003
ZMaxLod	ABBIED600_Rev3_ASG_SG_i_ED1_e	Maximum load impedance	E	REx620 MICS:2015>IEC 61850-7-4:2003
PhLeakRis	ABBIED600_Rev3_ASG_SG_i_ED1_e	Line PE leakage resistance	E	REx620 MICS:2015>IEC 61850-7-4:2003
PhLinCapac	ABBIED600_Rev3_ASG_SG_i_ED1_e	Line PE capacitive reactance	E	REx620 MICS:2015>IEC 61850-7-4:2003
EqLodDis	ABBIED600_Rev3_ASG_SG_i_ED1_e	Equivalent load distance	E	REx620 MICS:2015>IEC 61850-7-4:2003
TrgMod	ABBIED600_Rev1_ENG_SP_TrgMod_e	Trigger mode for distance calculation	E	REx620 MICS:2015>IEC 61850-7-4:2003
HiLimSpt	ABBIED600_Rev3_ASG_SG_i_ED1	High alarm limit		
LoLimSpt	ABBIED600_Rev3_ASG_SG_i_ED1	Low alarm limit		
EFAlgSel	ABBIED600_Rev2_ENG_SP_EFAlg_e	PE-loop calculation algorithm	E	REx620 MICS:2015>IEC 61850-7-4:2003
EFAlgASel	ABBIED600_Rev2_ENG_SP_EFAlgASel_e	Earth fault current model	E	REx620 MICS:2015>IEC 61850-7-4:2003
EnaLodComp	ABBIED600_Rev1_SPG_SP_e	Enable load compensation	E	REx620 MICS:2015>IEC 61850-7-4:2003

SimpMod	ABBIED600_Rev1_SPG_SP_e	Enable simple model	E	REx620 MICS:2015>IEC 61850-7-4:2003
TestProRl	AB-BIED600_Rev4_INC_TestProRl_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
DisEstVa	ABBIED600_Rev3_ASG_SP_i_e	Allowed variation of short circuit distance estimate	E	REx620 MICS:2015>IEC 61850-7-4:2003
PhVMeas	AB-BIED600_Rev2_ENG_SP_PhVMeas_e	Phase voltage measurement principle	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.148 LN: FLO1RFRC1 Name: RFRC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_INC_Mod_On_ED1_e	Mode	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only
Beh	ABBIED600_Rev2_INS_beh_ED1_e	Behaviour	E	REx620 MICS:2015>IEC 61850-7-4:2003
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_lnNs_1_e	Name plate	E	REx620 MICS:2015>IEC 61850-7-4:2003
FltLoop	ABBIED600_Rev5_INS_FltLoop_ED1_e	Fault loop	E	REx620 MICS:2015>IEC 61850-7-4:2003
FltDiskm	ABBIED600_Rev3_MV_simple_i_e	Fault distance	E	REx620 MICS:2015>IEC 61850-7-4:2003
FltPtR	ABBIED600_Rev3_MV_simple_i_e	Fault point resistance	E	REx620 MICS:2015>IEC 61850-7-4:2003
FltDisQ	ABBIED600_Rev1_INS_e	Fault distance quality	E	REx620 MICS:2015>IEC 61850-7-4:2003
FltR	ABBIED600_Rev3_MV_simple_i_e	Fault loop resistance	E	REx620 MICS:2015>IEC 61850-7-4:2003
FltX	ABBIED600_Rev3_MV_simple_i_e	Fault loop reactance	E	REx620 MICS:2015>IEC 61850-7-4:2003
PhReact	ABBIED600_Rev3_MV_simple_i_e	Fault phase reactance	E	REx620 MICS:2015>IEC 61850-7-4:2003
RatFltALod	ABBIED600_Rev3_MV_simple_i_e	Fault to load current ratio	E	REx620 MICS:2015>IEC 61850-7-4:2003
EqDisLod	ABBIED600_Rev3_MV_simple_i_e	Estimated equivalent load distance	E	REx620 MICS:2015>IEC 61850-7-4:2003
PhGndCapac	ABBIED600_Rev3_MV_simple_i_e	Estimated PE capacitive reactance of the line	E	REx620 MICS:2015>IEC 61850-7-4:2003
APreFltPhA	ABBIED600_Rev3_CMV_S_1_e	A Pre Flt Phs A	E	REx620 MICS:2015>IEC 61850-7-4:2003
APreFltPhB	ABBIED600_Rev3_CMV_S_1_e	A Pre Flt Phs B	E	REx620 MICS:2015>IEC 61850-7-4:2003

APreFltPhC	ABBIED600_Rev3_CMV_S_1_e	A Pre Flt Phs C	E	REx620 MICS:2015>IEC 61850-7-4:2003
VPreFltPhA	ABBIED600_Rev3_CMV_S_1_e	V Pre Flt Phs A	E	REx620 MICS:2015>IEC 61850-7-4:2003
VPreFltPhB	ABBIED600_Rev3_CMV_S_1_e	V Pre Flt Phs B	E	REx620 MICS:2015>IEC 61850-7-4:2003
VPreFltPhC	ABBIED600_Rev3_CMV_S_1_e	V Pre Flt Phs C	E	REx620 MICS:2015>IEC 61850-7-4:2003
AFltPhA	ABBIED600_Rev3_CMV_S_1_e	A Flt Phs A	E	REx620 MICS:2015>IEC 61850-7-4:2003
AFltPhB	ABBIED600_Rev3_CMV_S_1_e	A Flt Phs B	E	REx620 MICS:2015>IEC 61850-7-4:2003
AFltPhC	ABBIED600_Rev3_CMV_S_1_e	A Flt Phs C	E	REx620 MICS:2015>IEC 61850-7-4:2003
VFltPhA	ABBIED600_Rev3_CMV_S_1_e	V Flt Phs A	E	REx620 MICS:2015>IEC 61850-7-4:2003
VFltPhB	ABBIED600_Rev3_CMV_S_1_e	V Flt Phs B	E	REx620 MICS:2015>IEC 61850-7-4:2003
VFltPhC	ABBIED600_Rev3_CMV_S_1_e	V Flt Phs C	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.149 LN: SCEF1ZLIN1 Name: ZLIN (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
LinLenkm	ABBIED600_Rev3_ASG_SG_i_ED1	Line section A length		
RPs	ABBIED600_Rev3_ASG_SG_i_ED1	Line section A PS resistance		
XPs	ABBIED600_Rev3_ASG_SG_i_ED1	Line section A PS reactance		
RZer	ABBIED600_Rev3_ASG_SG_i_ED1	Line section A ZS resistance		
XZer	ABBIED600_Rev3_ASG_SG_i_ED1	Line section A ZS reactance		

6.1.150 LN: SCEF2ZLIN1 Name: ZLIN (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
LinLenkm	ABBIED600_Rev3_ASG_SG_i_ED1	Line section B length		
RPs	ABBIED600_Rev3_ASG_SG_i_ED1	Line section B PS resistance		
XPs	ABBIED600_Rev3_ASG_SG_i_ED1	Line section B PS reactance		
RZer	ABBIED600_Rev3_ASG_SG_i_ED1	Line section B ZS resistance		
XZer	ABBIED600_Rev3_ASG_SG_i_ED1	Line section B ZS reactance		

6.1.151 LN: SCEF3ZLIN1 Name: ZLIN (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
LinLenkm	ABBIED600_Rev3_ASG_SG_i_ED1	Line section C length		
RPs	ABBIED600_Rev3_ASG_SG_i_ED1	Line section C PS resistance		
XPs	ABBIED600_Rev3_ASG_SG_i_ED1	Line section C PS reactance		
RZer	ABBIED600_Rev3_ASG_SG_i_ED1	Line section C ZS resistance		
XZer	ABBIED600_Rev3_ASG_SG_i_ED1	Line section C ZS reactance		

6.1.152 LN: OLATCC1 Name: ATCC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_Of-fOn_FD_ED1	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		
Loc	ABBIED600_Rev1_SPS	Local operation		
OpCntRs	ABBIED600_Rev1_INC_simple_int	Resetable operation counter		status-only
TapChg	ABBIED600_Rev4_BSC_control	Change Tap Posi-tion (stop, lower, higher)		status-only,direct-with-normal-security
ParOp	ABBIED600_Rev2_SPC_control	Parallel/Independ-ent operation		status-only,direct-with-normal-security
LTCBlk	ABBIED600_Rev1_SPC_simple	Block (Inhibit) con-trol output of LTC		status-only
VRed	ABBIED600_Rev1_SPC_simple	Voltage reduction step 1		status-only
CtlV	ABBIED600_Rev3_MV_simple_i	Control voltage		
LodA	ABBIED600_Rev3_MV_simple_i	Load current (total transformer second-ary current)		
CircA	ABBIED600_Rev3_MV_simple_i	Circulating current		
Auto	ABBIED600_Rev2_SPC_control	Automatic/Manual operation		status-only,direct-with-normal-security
BndCtr	ABBIED600_Rev3_ASG_SG_i_ED1	Band center voltage		
BndWid	ABBIED600_Rev3_ASG_SP_i	Band width voltage		
CtlDlTmms	ABBIED600_Rev1_ING_SG_ED1	Control intentional time delay 1		
CtlDl2Tmms	ABBIED600_Rev1_ING_SG_ED1_e	Control intentional time delay 2	E	REx620 MICS:2015>IEC 61850-7-4:2003

LDCR	ABBIED600_Rev3_ASG_SG_i_ED1	Line drop voltage due to line resistance component		
LDCX	ABBIED600_Rev3_ASG_SG_i_ED1	Line drop voltage due to line reactance component		
RnbkRV	ABBIED600_Rev3_ASG_SP_i	Runback raise voltage		
LimLodA	ABBIED600_Rev3_ASG_SP_i	Limit load current (LTC Block Load current)		
TmDlChr	ABBIED600_Rev1_SPG_SP	Time delay linear or inverse characteristics		
VRedVal	ABBIED600_Rev3_ASG_SG_i_ED1	Reduction of band centre (percent) when voltage step is active		
TapBlkR	ABBIED600_Rev1_ING_SP_1	Tap position of Load tap changer where automatic Raise commands are blocked		
TapBlkL	ABBIED600_Rev1_ING_SP_1	Tap position of Load tap changer where automatic Lower commands are blocked		
BlkVLo	ABBIED600_Rev3_ASG_SP_i	Control voltage below which auto Raise commands are blocked		
EndPosR	ABBIED600_Rev1_SPS	Block raise		
EndPosL	ABBIED600_Rev1_SPS	Block lower		
ParTrfMod	ABBIED600_Rev2_ENG_SG_ParTrfMod_ED1_e	Auto parallel mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
TapOpErr	ABBIED600_Rev1_SPS	Alarm		
TapOpR	ABBIED600_Rev1_SPS	Raise command for own transformer		
TapOpL	ABBIED600_Rev1_SPS	Lower command for own transformer		
LTCBlkAHi	ABBIED600_Rev1_SPS	Block load current		
LTCBlkVLo	ABBIED600_Rev1_SPS	Block under voltage		
Blk	ABBIED600_Rev1_SPS	External block status		
ErrPar	ABBIED600_Rev1_SPS	Parallel failure		
VolSpt	ABBIED600_Rev4_APC_control_e	Voltage setpoint	E	REx620 MICS:2015>IEC

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LodPhAng	ABBIED600_Rev3_ASG_SG_i_ED1_e	Load phase angle	E	REx620 MICS:2015>IEC 61850-7-4:2003
StabFact	ABBIED600_Rev3_ASG_SG_i_ED1_e	Stability	E	REx620 MICS:2015>IEC 61850-7-4:2003
VCtlOpMod	ABBIED600_Rev4_ENG_SP_OpMod-SetATCC_e	Operation mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
LTCPlsTmms	ABBIED600_Rev1_ING_SP_e	Output pulse	E	REx620 MICS:2015>IEC 61850-7-4:2003
ManBlkTyp	AB-BIED600_Rev2_ENG_SP_ManBlkType_e	Manual blocking type	E	REx620 MICS:2015>IEC 61850-7-4:2003
LimCircA	ABBIED600_Rev3_ASG_SP_i_e	Circulating current limit	E	REx620 MICS:2015>IEC 61850-7-4:2003
LimLDC	ABBIED600_Rev3_ASG_SP_i_e	Line Drop Compensation limit	E	REx620 MICS:2015>IEC 61850-7-4:2003
LDCEna	ABBIED600_Rev1_SPG_SP_e	Line Drop Compensation enable	E	REx620 MICS:2015>IEC 61850-7-4:2003
RPFAllw	ABBIED600_Rev1_SPG_SP_e	Reverse power flow allwd	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpTmhMax	ABBIED600_Rev1_ING_SP_1_e	Max operations in 1h	E	REx620 MICS:2015>IEC 61850-7-4:2003
CmdErrTms	ABBIED600_Rev1_ING_SP_1_e	Command error delay	E	REx620 MICS:2015>IEC 61850-7-4:2003
FllwDlTms	ABBIED600_Rev1_ING_SP_1_e	Follower delay	E	REx620 MICS:2015>IEC 61850-7-4:2003
AlmEna	ABBIED600_Rev1_SPG_SP_e	Alarms enabled	E	REx620 MICS:2015>IEC 61850-7-4:2003
CntRs	ABBIED600_Rev2_SPC_control_e	Counter reset	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
TapOpFllw1	ABBIED600_Rev1_INS_e	Change follower 1 tap position command from master (stop, lower, higher)	E	REx620 MICS:2015>IEC 61850-7-4:2003

TapOpFllw2	ABBIED600_Rev1_INS_e	Change follower 2 tap position command from master (stop, lower, higher)	E	REx620 MICS:2015>IEC 61850-7-4:2003
TapOpFllw3	ABBIED600_Rev1_INS_e	Change follower 3 tap position command from master (stop, lower, higher)	E	REx620 MICS:2015>IEC 61850-7-4:2003
LodAVec	ABBIED600_Rev3_CMV_S_1_e	Transmitted current phasor	E	REx620 MICS:2015>IEC 61850-7-4:2003
VMeas	ABBIED600_Rev3_MV_simple_i_e	Voltage, average filtered	E	REx620 MICS:2015>IEC 61850-7-4:2003
AngVAPhA	ABBIED600_Rev3_MV_simple_i_e	Angle U_A-I_A	E	REx620 MICS:2015>IEC 61850-7-4:2003
CtlDlOn	ABBIED600_Rev2_INS_TimerOn_ED1_e	Timer status	E	REx620 MICS:2015>IEC 61850-7-4:2003
CtlOpModSt	ABBIED600_Rev2_INS_OpModA-TCC_ED1_e	Acting oper mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
CtlVDif	ABBIED600_Rev3_MV_simple_i_e	Voltage difference	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClcLDC	ABBIED600_Rev3_MV_simple_i_e	Calculated Line Drop Compensation	E	REx620 MICS:2015>IEC 61850-7-4:2003
BlkSt	ABBIED600_Rev1_INS_e	Block status	E	REx620 MICS:2015>IEC 61850-7-4:2003
LTCRnbk	ABBIED600_Rev1_SPS_e	Block runback raise voltage	E	REx620 MICS:2015>IEC 61850-7-4:2003
CircAHiBlk	ABBIED600_Rev1_SPS_e	Block circulating current	E	REx620 MICS:2015>IEC 61850-7-4:2003
AlmReas	ABBIED600_Rev2_INS_AlmReas_ED1_e	Alarm reason	E	REx620 MICS:2015>IEC 61850-7-4:2003
FllwFlt	ABBIED600_Rev2_INS_FllwFlt_ED1_e	Failed followers	E	REx620 MICS:2015>IEC 61850-7-4:2003
NumParUnit	ABBIED600_Rev2_INS_ParUnits_ED1_e	Parallel units in MCC	E	REx620 MICS:2015>IEC 61850-7-4:2003
Trf1TapPos	ABBIED600_Rev1_INS_e	Trafo 1 tap position	E	REx620 MICS:2015>IEC 61850-7-4:2003

Trf2TapPos	ABBIED600_Rev1_INS_e	Trafo 2 tap position	E	REx620 MICS:2015>IEC 61850-7-4:2003
Trf3TapPos	ABBIED600_Rev1_INS_e	Trafo 3 tap position	E	REx620 MICS:2015>IEC 61850-7-4:2003
TapChgFllw	ABBIED600_Rev1_INS_e	Change follower tap position (stop, lower, higher)	E	REx620 MICS:2015>IEC 61850-7-4:2003
InConSt	ABBIED600_Rev1_SPS_e	Connection status	E	REx620 MICS:2015>IEC 61850-7-4:2003
InLTCOp	ABBIED600_Rev1_SPS_e	Tap Changer Operating	E	REx620 MICS:2015>IEC 61850-7-4:2003
Trf1A	ABBIED600_Rev3_CMV_S_1_e	Received current from transformer 1	E	REx620 MICS:2015>IEC 61850-7-4:2003
Trf2A	ABBIED600_Rev3_CMV_S_1_e	Received current from transformer 2	E	REx620 MICS:2015>IEC 61850-7-4:2003
Trf3A	ABBIED600_Rev3_CMV_S_1_e	Received current from transformer 3	E	REx620 MICS:2015>IEC 61850-7-4:2003
ParTrfNum	ABBIED600_Rev1_ING_SP_1_e	Parallel trafos	E	REx620 MICS:2015>IEC 61850-7-4:2003
TestCtl	ABBIED600_Rev3_INC_TestCtl_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
OpTmhNum	ABBIED600_Rev1_INS_e	Controls per last 1h	E	REx620 MICS:2015>IEC 61850-7-4:2003
TapChgR	ABBIED600_Rev1_SPS_e	RAISE_LOCAL	E	REx620 MICS:2015>IEC 61850-7-4:2003
TapChgL	ABBIED600_Rev1_SPS_e	LOWER_LOCAL	E	REx620 MICS:2015>IEC 61850-7-4:2003
CtlDlSt	ABBIED600_Rev1_SPS_e	Timer on	E	REx620 MICS:2015>IEC 61850-7-4:2003
InAuto	ABBIED600_Rev1_SPS_e	Input auto operation	E	REx620 MICS:2015>IEC 61850-7-4:2003
InParOp	ABBIED600_Rev1_SPS_e	Input parallel operation	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.1.153 LN: RDRE1 Name: RDRE (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
RcdTrg	ABBIED600_Rev2_SPC_control	Trig recording		status-only,direct-with-normal-security
MemClr	ABBIED600_Rev2_SPC_control	Disturbance records		status-only,direct-with-normal-security
RcdMade	ABBIED600_Rev1_SPS_simple	Recording made		
FltNum	ABBIED600_Rev1_INS	Number of re-cordings		
RcdStr	ABBIED600_Rev1_SPS_simple	Recording started		
MemUsed	ABBIED600_Rev1_INS	Rec. memory used		
PerTrgTms	ABBIED600_Rev1_ING_SP_time	Periodic trig time		
ExclTmms	ABBIED600_Rev1_ING_SP_time	Exclusion time		
RcdMod	ABBIED600_Rev1_ENG_SP_RcdMod	Operation mode		
RcdDltInd	ABBIED600_Rev1_SPS_simple_e	Recording de-leted	E	REx620 MICS:2015>IEC 61850-7-4:2003
RmnRcdCap	ABBIED600_Rev1_INS_e	Rem. amount of rec.	E	REx620 MICS:2015>IEC 61850-7-4:2003
MemFullSt	ABBIED600_Rev1_SPS_simple_e	Memory full	E	REx620 MICS:2015>IEC 61850-7-4:2003
OvWrRcdInd	ABBIED600_Rev1_SPS_simple_e	Overwrite of rec.	E	REx620 MICS:2015>IEC 61850-7-4:2003
PreTrgLen	ABBIED600_Rev1_ING_SP_1_e	Pre-trg length	E	REx620 MICS:2015>IEC 61850-7-4:2003
RcdLen	ABBIED600_Rev1_ING_SP_1_e	Record length	E	REx620 MICS:2015>IEC 61850-7-4:2003
StoRteSel	ABBIED600_Rev2_ING_SP_ES-toRte_e	Storage rate	E	REx620 MICS:2015>IEC 61850-7-4:2003
StoModPer	ABBIED600_Rev2_ENG_SP_ESto-Mod_e	Stor. mode pe-riodic	E	REx620 MICS:2015>IEC 61850-7-4:2003
StoModMan	ABBIED600_Rev2_ENG_SP_ESto-Mod_e	Stor. mode manual	E	REx620 MICS:2015>IEC 61850-7-4:2003
PerTmRmn	ABBIED600_Rev1_INS_e	Time to trigger	E	REx620 MICS:2015>IEC 61850-7-4:2003
PerTrgInd	ABBIED600_Rev1_SPS_simple_e	Periodic trig-gering	E	REx620 MICS:2015>IEC 61850-7-4:2003
ManTrgInd	ABBIED600_Rev1_SPS_simple_e	Manual trigger-ing	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2 Extented Logical Nodes

6.2.1 LN: PHLPTOC1 Name: PTOC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OfOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG_ED1	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i_ED1	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv_ED1	Type of Reset Curve		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	REx620 MICS:2015>IEC 61850-7-4:2003
NumPh	ABBIED600_Rev3_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrValMult	ABBIED600_Rev3_ASG_SG_i_ED1_e	Multiplier for scaling the start value	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
AMeasMod	ABBIED600_Rev3_ENG_SP_MeasMod_e	Measuring mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.2 LN: PHHPTOC1 Name: PTOC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OfFOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG_ED1	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i_ED1	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv_ED1	Type of Reset Curve		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	REx620 MICS:2015>IEC 61850-7-4:2003
NumPh	ABBIED600_Rev3_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrValMult	ABBIED600_Rev3_ASG_SG_i_ED1_e	Multiplier for scaling the start value	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
AMeasMod	ABBIED600_Rev3_ENG_SP_MeasMod_e	Measuring mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.3 LN: PHHPTOC2 Name: PTOC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

Mod	ABBIED600_Rev2_INC_Mod_OfFOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG_ED1	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i_ED1	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv_ED1	Type of Reset Curve		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	REx620 MICS:2015>IEC 61850-7-4:2003
NumPh	ABBIED600_Rev3_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrValMult	ABBIED600_Rev3_ASG_SG_i_ED1_e	Multiplier for scaling the start value	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
AMeasMod	ABBIED600_Rev3_ENG_SP_MeasMod_e	Measuring mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.4 LN: PHIPTOC1 Name: PTOC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OfFOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		

Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	REx620 MICS:2015>IEC 61850-7-4:2003
NumPh	ABBIED600_Rev3_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrValMult	ABBIED600_Rev3_ASG_SG_i_ED1_e	Multiplier for scaling the start value	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.5 LN: DPHLPTOC1 Name: PTOC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG_ED1	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i_ED1	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		

OpDlT-mms	ABBIED600_Rev1_ING_SG_ED1	Operate Delay Time		
TypRsCrv	AB-BIED600_Rev3_ENG_SG_TypRsCrv_ED1	Type of Reset Curve		
RsDlT-mms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod_ED1	Directional Mode		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multi-plier	E	REx620 MICS:2015>IEC 61850-7-4:2003
NumPh	ABBIED600_Rev3_ENG_SP_StrPhSel_e	Number of phases required for operate acti-vation	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrValMult	ABBIED600_Rev3_ASG_SG_i_ED1_e	Multiplier for scaling the start value	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
AMeas-Mod	ABBIED600_Rev3_ENG_SP_MeasMod_e	Measuring mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
TestPro	ABBIED600_Rev2_INC_TestPro_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-se-curity
AllwNon-Dir	ABBIED600_Rev1_SPG_SP_e	Allows prot acti-vation as non-dir when dir info is invalid	E	REx620 MICS:2015>IEC 61850-7-4:2003
NonDir	ABBIED600_Rev1_SPS_e	Forces protec-tion to non-di-rectional	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.6 LN: DPHHPTOC1 Name: PTOC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_Of-fOn_FD_ED1	Mode		status-only,direct-with-nor-mal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary out-puts	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG_ED1	Operating Curve Type		

StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i_ED1	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv_ED1	Selection of reset curve type		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod_ED1	Directional Mode		
InEnaMult	ABBIED600_Rev1_SPS_e	Enables current multiplier	E	REx620 MICS:2015>IEC 61850-7-4:2003
NumPh	ABBIED600_Rev3_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrValMult	ABBIED600_Rev3_ASG_SG_i_ED1_e	Multiplier for scaling the start value	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
AMeasMod	ABBIED600_Rev3_ENG_SP_MeasMod_e	Selects used measurement mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
TestPro	ABBIED600_Rev2_INC_TestPro_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
AllwNonDir	ABBIED600_Rev1_SPG_SP_e	Allows prot activation as non-dir when dir info is invalid	E	REx620 MICS:2015>IEC 61850-7-4:2003
NonDir	ABBIED600_Rev1_SPS_e	Forces protection to non-directional	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.7 LN: EFLPTOC1 Name: PTOC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only

Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG_ED1	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i_ED1	Time Dial Multiplier		
MinOp-Tmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv_ED1	Type of Reset Curve		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
AMeasMod	ABBIED600_Rev3_ENG_SP_MeasMod_e	Measurement mode selection	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrValMult	ABBIED600_Rev3_ASG_SG_i_ED1_e	Multiplier for operate current level	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
InEnaMult	ABBIED600_Rev1_SPS_e	Enable current multiplier	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
AResSigSel	ABBIED600_Rev2_ENG_SP_AResSigSel_e	Selection for used Io signal	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.8 LN: EFHPTOC1 Name: PTOC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		

Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG_ED1	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i_ED1	Time Dial Multiplier		
MinOp-Tmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv_ED1	Type of Reset Curve		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
AMeasMod	ABBIED600_Rev3_ENG_SP_MeasMod_e	Measurement mode selection	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrValMult	ABBIED600_Rev3_ASG_SG_i_ED1_e	Multiplier for operate current level	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
InEnaMult	ABBIED600_Rev1_SPS_e	Enable current multiplier	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
AResSigSel	ABBIED600_Rev2_ENG_SP_AResSigSel_e	Selection for used Io signal	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.9 LN: DEFLPTOC1 Name: PTOC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG_ED1	Curve parameter E		

StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i_ED1	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv_ED1	Selection of reset curve type		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod_ED1	Directional Mode		
VStr	ABBIED600_Rev3_ASG_SG_i_ED1_e	Voltage start value	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrValMult	ABBIED600_Rev3_ASG_SG_i_ED1_e	Multiplier for scaling the start value	E	REx620 MICS:2015>IEC 61850-7-4:2003
AllwNonDir	ABBIED600_Rev1_SPG_SP_e	Allows prot activation as non-dir when dir info is invalid	E	REx620 MICS:2015>IEC 61850-7-4:2003
AMeasMod	ABBIED600_Rev3_ENG_SP_MeasMod_e	Selects used measurement mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
InEnaMult	ABBIED600_Rev1_SPS_e	Enables current multiplier	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
EnaVLim	ABBIED600_Rev1_SPG_SG_ED1_e	Enable voltage limit	E	REx620 MICS:2015>IEC 61850-7-4:2003
TestPro	ABBIED600_Rev2_INC_TestPro_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
AResSigSel	ABBIED600_Rev2_ENG_SP_AResSigSel_e	Selection for used Io signal	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.10 LN: DEFHPTOC1 Name: PTOC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003

Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG_ED1	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i_ED1	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv_ED1	Selection of reset curve type		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod_ED1	Directional Mode		
VStr	ABBIED600_Rev3_ASG_SG_i_ED1_e	Voltage start value	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrValMult	ABBIED600_Rev3_ASG_SG_i_ED1_e	Multiplier for scaling the start value	E	REx620 MICS:2015>IEC 61850-7-4:2003
AllwNonDir	ABBIED600_Rev1_SPG_SP_e	Allows prot activation as non-dir when dir info is invalid	E	REx620 MICS:2015>IEC 61850-7-4:2003
AMeasMod	ABBIED600_Rev3_ENG_SP_MeasMod_e	Selects used measurement mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
InEnaMult	ABBIED600_Rev1_SPS_e	Enables current multiplier	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
EnaVLim	ABBIED600_Rev1_SPG_SG_ED1_e	Enable voltage limit	E	REx620 MICS:2015>IEC 61850-7-4:2003
TestPro	ABBIED600_Rev2_INC_TestPro_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
AResSigSel	ABBIED600_Rev2_ENG_SP_AResSigSel_e	Selection for used Io signal	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.11 LN: ROVPTOV1 Name: PTOV (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only

NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Residual Over Voltage start value		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
VResSigSel	ABBIED600_Rev2_ENG_SP_VResSigSel_e	Selection for used Uo signal	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.12 LN: ROVPTOV2 Name: PTOV (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Residual Over Voltage start value		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003

TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
VResSigSel	ABBIED600_Rev2_ENG_SP_VResSigSel_e	Selection for used Uo signal	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.13 LN: ROVPTOV3 Name: PTOV (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Residual Over Voltage start value		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
VResSigSel	ABBIED600_Rev2_ENG_SP_VResSigSel_e	Selection for used Uo signal	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.14 LN: PHPTUV1 Name: PTUV (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003

Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmVCrv	ABBIED600_Rev2_CURVE_SG_ED1	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i_ED1	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv_ED1_e	Type of Reset Curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
BlkVal	ABBIED600_Rev3_ASG_SP_i_e	Voltage block value	E	REx620 MICS:2015>IEC 61850-7-4:2003
NumPh	ABBIED600_Rev3_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
TestPro	ABBIED600_Rev2_INC_TestPro_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
CrvSatRl	ABBIED600_Rev1_ASG_SP_f_e	Tuning parameter to avoid curve discontinuities	E	REx620 MICS:2015>IEC 61850-7-4:2003
VSel	ABBIED600_Rev3_ENG_SP_VSel_e	Parameter to select phase or phase-to-phase voltages	E	REx620 MICS:2015>IEC 61850-7-4:2003
EnaBlkVal	ABBIED600_Rev1_SPG_SP_e	Enable block value	E	REx620 MICS:2015>IEC 61850-7-4:2003
HysRl	ABBIED600_Rev3_ASG_SP_i_e	Relative hysteresis for operation	E	REx620 MICS:2015>IEC 61850-7-4:2003
TypTmRs	ABBIED600_Rev2_ENG_SG_TypTmRs_ED1_e	Type of time reset	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.15 LN: PHPTUV2 Name: PTUV (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		

Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmVCrv	ABBIED600_Rev2_CURVE_SG_ED1	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i_ED1	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv_ED1_e	Type of Reset Curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
BlkVal	ABBIED600_Rev3_ASG_SP_i_e	Voltage block value	E	REx620 MICS:2015>IEC 61850-7-4:2003
NumPh	ABBIED600_Rev3_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
TestPro	ABBIED600_Rev2_INC_TestPro_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
CrvSatRl	ABBIED600_Rev1_ASG_SP_f_e	Tuning parameter to avoid curve discontinuities	E	REx620 MICS:2015>IEC 61850-7-4:2003
VSel	ABBIED600_Rev3_ENG_SP_VSel_e	Parameter to select phase or phase-to-phase voltages	E	REx620 MICS:2015>IEC 61850-7-4:2003
EnaBlkVal	ABBIED600_Rev1_SPG_SP_e	Enable block value	E	REx620 MICS:2015>IEC 61850-7-4:2003
HysRl	ABBIED600_Rev3_ASG_SP_i_e	Relative hysteresis for operation	E	REx620 MICS:2015>IEC 61850-7-4:2003
TypTmRs	ABBIED600_Rev2_ENG_SG_TypTmRs_ED1_e	Type of time reset	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.16 LN: PHPTUV3 Name: PTUV (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OfFOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmVCrv	ABBIED600_Rev2_CURVE_SG_ED1	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i_ED1	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv_ED1_e	Type of Reset Curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
BlkVal	ABBIED600_Rev3_ASG_SP_i_e	Voltage block value	E	REx620 MICS:2015>IEC 61850-7-4:2003
NumPh	ABBIED600_Rev3_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
TestPro	ABBIED600_Rev2_INC_TestPro_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
CrvSatRl	ABBIED600_Rev1_ASG_SP_f_e	Tuning parameter to avoid curve discontinuities	E	REx620 MICS:2015>IEC 61850-7-4:2003
VSel	ABBIED600_Rev3_ENG_SP_VSel_e	Parameter to select phase or phase-to-phase voltages	E	REx620 MICS:2015>IEC 61850-7-4:2003
EnaBlkVal	ABBIED600_Rev1_SPG_SP_e	Enable block value	E	REx620 MICS:2015>IEC 61850-7-4:2003

HysRl	ABBIED600_Rev3_ASG_SP_i_e	Relative hysteresis for operation	E	REx620 MICS:2015>IEC 61850-7-4:2003
TypTmRs	ABBIED600_Rev2_ENG_SG_TypTmRs_ED1_e	Type of time reset	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.17 LN: PHPTOV1 Name: PTOV (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmVCrv	ABBIED600_Rev2_CURVE_SG_ED1	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i_ED1	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv_ED1_e	Type of Reset Curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
NumPh	ABBIED600_Rev3_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
TestPro	ABBIED600_Rev2_INC_TestPro_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
CrvSatRl	ABBIED600_Rev1_ASG_SP_f_e	Tuning parameter to avoid curve discontinuities	E	REx620 MICS:2015>IEC 61850-7-4:2003
VSel	ABBIED600_Rev3_ENG_SP_VSel_e	Parameter to select phase or	E	REx620 MICS:2015>IEC 61850-7-4:2003

		phase-to-phase voltages		
HysRl	ABBIED600_Rev3_ASG_SP_i_e	Relative hysteresis for operation	E	REx620 MICS:2015>IEC 61850-7-4:2003
TypTmRs	ABBIED600_Rev2_ENG_SG_TypTmRs_ED1_e	Type of time reset	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.18 LN: PHPTOV2 Name: PTOV (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmVCrv	ABBIED600_Rev2_CURVE_SG_ED1	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i_ED1	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv_ED1_e	Type of Reset Curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
NumPh	ABBIED600_Rev3_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
TestPro	ABBIED600_Rev2_INC_TestPro_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
CrvSatRl	ABBIED600_Rev1_ASG_SP_f_e	Tuning parameter to avoid curve discontinuities	E	REx620 MICS:2015>IEC 61850-7-4:2003

VSel	ABBIED600_Rev3_ENG_SP_VSel_e	Parameter to select phase or phase-to-phase voltages	E	REx620 MICS:2015>IEC 61850-7-4:2003
HysRl	ABBIED600_Rev3_ASG_SP_i_e	Relative hysteresis for operation	E	REx620 MICS:2015>IEC 61850-7-4:2003
TypTmRs	ABBIED600_Rev2_ENG_SG_TypTmRs_ED1_e	Type of time reset	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.19 LN: PHPTOV3 Name: PTOV (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmVCrv	ABBIED600_Rev2_CURVE_SG_ED1	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i_ED1	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv_ED1_e	Type of Reset Curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
NumPh	ABBIED600_Rev3_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
TestPro	ABBIED600_Rev2_INC_TestPro_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
CrvSatRl	ABBIED600_Rev1_ASG_SP_f_e	Tuning parameter to avoid	E	REx620 MICS:2015>IEC 61850-7-4:2003

		curve discontinuities		
VSel	ABBIED600_Rev3_ENG_SP_VSel_e	Parameter to select phase or phase-to-phase voltages	E	REx620 MICS:2015>IEC 61850-7-4:2003
HysRl	ABBIED600_Rev3_ASG_SP_i_e	Relative hysteresis for operation	E	REx620 MICS:2015>IEC 61850-7-4:2003
TypTmRs	ABBIED600_Rev2_ENG_SG_TypTmRs_ED1_e	Type of time reset	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.20 LN: PSPTUV1 Name: PTUV (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
BlkVal	ABBIED600_Rev3_ASG_SG_i_ED1_e	Voltage block value	E	REx620 MICS:2015>IEC 61850-7-4:2003
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
EnaBlkVal	ABBIED600_Rev1_SPG_SG_ED1_e	Enable block value	E	REx620 MICS:2015>IEC 61850-7-4:2003
HysRl	ABBIED600_Rev3_ASG_SP_i_e	Relative hysteresis for operation	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.21 LN: PSPTUV2 Name: PTUV (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security

Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
BlkVal	ABBIED600_Rev3_ASG_SG_i_ED1_e	Voltage block value	E	REx620 MICS:2015>IEC 61850-7-4:2003
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
EnaBlkVal	ABBIED600_Rev1_SPG_SG_ED1_e	Enable block value	E	REx620 MICS:2015>IEC 61850-7-4:2003
HysRl	ABBIED600_Rev3_ASG_SP_i_e	Relative hysteresis for operation	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.22 LN: NSPTOV1 Name: PTOV (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003

TstOutCmd	AB-BIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.23 LN: NSPTOV2 Name: PTOV (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OfFOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	AB-BIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.24 LN: FRPTRC1 Name: PTRC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OfFOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Op	ABBIED600_Rev1_ACT_simple	Operate		
Str	ABBIED600_Rev1_ACD_simple	Start		
TestPro	ABBIED600_Rev2_INC_TestPro_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003

OpMod-ProHz	ABBIED600_Rev2_ENG_SG_OpMod-ProHz_ED1_e	Operation mode	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.25 LN: FRPTRC2 Name: PTRC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_Of-fOn_FD_ED1	Mode		status-only,direct-with-normal-se-curity
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Op	ABBIED600_Rev1_ACT_simple	Operate		
Str	ABBIED600_Rev1_ACD_simple	Start		
TestPro	ABBIED600_Rev2_INC_TestPro_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpMod-ProHz	ABBIED600_Rev2_ENG_SG_OpMod-ProHz_ED1_e	Operation mode	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.26 LN: FRPTRC3 Name: PTRC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_Of-fOn_FD_ED1	Mode		status-only,direct-with-normal-se-curity
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Op	ABBIED600_Rev1_ACT_simple	Operate		
Str	ABBIED600_Rev1_ACD_simple	Start		
TestPro	ABBIED600_Rev2_INC_TestPro_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpMod-ProHz	ABBIED600_Rev2_ENG_SG_OpMod-ProHz_ED1_e	Operation mode	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.27 LN: CCBRBRF1 Name: RBRF (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OfFOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Delayed CB failure alarm		
OpEx	ABBIED600_Rev1_ACT_simple	Breaker failure trip (external trip)		
OpIn	ABBIED600_Rev1_ACT_simple	Operate, retrip (internal trip)		
FailMod	ABBIED600_Rev2_ENG_SP_FailMod	Breaker Failure Detection Mode (current, breaker status, both, other)		
FailTmms	ABBIED600_Rev1_ING_SP	Breaker Failure Time Delay for bus bar trip		
TPTrTmms	ABBIED600_Rev1_ING_SP_e	Three Pole Retrip Time Delay		
DetValA	ABBIED600_Rev3_ASG_SP_i	Current Detector Value		
ReTrMod	ABBIED600_Rev2_ENG_SP_ReTrMod	Retrip Mode		
TrPlsTmms	ABBIED600_Rev1_ING_SP_e	Trip pulse time		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
DetValARes	ABBIED600_Rev3_ASG_SP_i_e	Current Detector Value for residual current	E	REx620 MICS:2015>IEC 61850-7-4:2003
AMeasMod	ABBIED600_Rev3_ENG_SP_MeasMod_e	Measurement mode selection (current): 2= DFT; 3= Peak-to-Peak	E	REx620 MICS:2015>IEC 61850-7-4:2003
CBAlmTmms	ABBIED600_Rev1_ING_SP_e	Circuit breaker faulty alarm delay	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpExMod	ABBIED600_Rev2_ENG_SP_buTripMode_e	Select type of backup trip logic	E	REx620 MICS:2015>IEC 61850-7-4:2003
InStr	ABBIED600_Rev1_SPS_e	CBFP start command	E	REx620 MICS:2015>IEC 61850-7-4:2003
InPosCls	ABBIED600_Rev1_SPS_e	CB in closed poisition	E	REx620 MICS:2015>IEC 61850-7-4:2003
InCBFlt	ABBIED600_Rev1_SPS_e	CB faulty and unable to trip	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

StrLtcMod	AB-BIED600_Rev2_ENG_SP_StrLtcMod_e	Start reset delayed or immediately	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.28 LN: CCBRBRF2 Name: RBRF (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Delayed CB failure alarm		
OpEx	ABBIED600_Rev1_ACT_simple	Breaker failure trip (external trip)		
OpIn	ABBIED600_Rev1_ACT_simple	Operate, retrip (internal trip)		
FailMod	ABBIED600_Rev2_ENG_SP_FailMod	Breaker Failure Detection Mode (current, breaker status, both, other)		
FailTmms	ABBIED600_Rev1_ING_SP	Breaker Failure Time Delay for bus bar trip		
TPTrTmms	ABBIED600_Rev1_ING_SP	Three Pole Retrip Time Delay		
DetValA	ABBIED600_Rev3_ASG_SP_i	Current Detector Value		
ReTrMod	ABBIED600_Rev2_ENG_SP_ReTrMod	Retrip Mode		
TrPlsTmms	ABBIED600_Rev1_ING_SP_e	Trip pulse time		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
DetValARes	ABBIED600_Rev3_ASG_SP_i_e	Current Detector Value for residual current	E	REx620 MICS:2015>IEC 61850-7-4:2003
AMeasMod	ABBIED600_Rev3_ENG_SP_MeasMod_e	Measurement mode selection (current): 2= DFT; 3= Peak-to-Peak	E	REx620 MICS:2015>IEC 61850-7-4:2003
CBAlmTmms	ABBIED600_Rev1_ING_SP_e	Circuit breaker faulty alarm delay	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpExMod	ABBIED600_Rev2_ENG_SP_buTripMode_e	Select type of backup trip logic	E	REx620 MICS:2015>IEC 61850-7-4:2003
InStr	ABBIED600_Rev1_SPS_e	CBFP start command	E	REx620 MICS:2015>IEC 61850-7-4:2003
InPosCls	ABBIED600_Rev1_SPS_e	CB in closed poisition	E	REx620 MICS:2015>IEC 61850-7-4:2003
InCBFlt	ABBIED600_Rev1_SPS_e	CB faulty and unable to trip	E	REx620 MICS:2015>IEC 61850-7-4:2003

TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
StrLtcMod	ABBIED600_Rev2_ENG_SP_StrLtcMod_e	Start reset delayed or immediately	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.29 LN: CCBRBRF3 Name: RBRF (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Delayed CB failure alarm		
OpEx	ABBIED600_Rev1_ACT_simple	Breaker failure trip (external trip)		
OpIn	ABBIED600_Rev1_ACT_simple	Operate, retrip (internal trip)		
FailMod	ABBIED600_Rev2_ENG_SP_FailMod	Breaker Failure Detection Mode (current, breaker status, both, other)		
FailTmms	ABBIED600_Rev1_ING_SP	Breaker Failure Time Delay for bus bar trip		
TPTrTmms	ABBIED600_Rev1_ING_SP	Three Pole Retrip Time Delay		
DetValA	ABBIED600_Rev3_ASG_SP_i	Current Detector Value		
ReTrMod	ABBIED600_Rev2_ENG_SP_ReTrMod	Retrip Mode		
TrPlsTmms	ABBIED600_Rev1_ING_SP_e	Trip pulse time		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
DetValARes	ABBIED600_Rev3_ASG_SP_i_e	Current Detector Value for residual current	E	REx620 MICS:2015>IEC 61850-7-4:2003
AMeasMod	ABBIED600_Rev3_ENG_SP_MeasMod_e	Measurement mode selection (current): 2= DFT; 3= Peak-to-Peak	E	REx620 MICS:2015>IEC 61850-7-4:2003
CBAlmTmms	ABBIED600_Rev1_ING_SP_e	Circuit breaker faulty alarm delay	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpExMod	ABBIED600_Rev2_ENG_SP_buTripMode_e	Select type of backup trip logic	E	REx620 MICS:2015>IEC 61850-7-4:2003
InStr	ABBIED600_Rev1_SPS_e	CBFP start command	E	REx620 MICS:2015>IEC 61850-7-4:2003

InPosCls	ABBIED600_Rev1_SPS_e	CB in closed position	E	REx620 MICS:2015>IEC 61850-7-4:2003
InCBFlt	ABBIED600_Rev1_SPS_e	CB faulty and unable to trip	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
StrLtcMod	ABBIED600_Rev2_ENG_SP_StrLtcMod_e	Start reset delayed or immediately	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.30 LN: TRPPTRC1 Name: PTRC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	BLOCK		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Tr	ABBIED600_Rev1_ACT_simple_dU	General trip output signal		
Op	ABBIED600_Rev1_ACT_simple_dU	Operate input signal		
TrPlsTmms	ABBIED600_Rev1_ING_SP_1	Minimum duration of trip output signal		
TrOutMod	ABBIED600_Rev2_ENG_SP_TrOutMod_e	Trip output mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
LORs	ABBIED600_Rev2_SPC_indications_e	RST_LKOUT	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
TrRs	ABBIED600_Rev2_SPC_indications_e	Reset latched trip	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
ClsLO	ABBIED600_Rev1_SPS_e	Circuit breaker lockout output (set until reset)	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.31 LN: TRPPTRC2 Name: PTRC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	BLOCK		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only

Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Tr	ABBIED600_Rev1_ACT_simple_dU	General trip output signal		
Op	ABBIED600_Rev1_ACT_simple_dU	Operate input signal		
TrPlsTmms	ABBIED600_Rev1_ING_SP_1	Minimum duration of trip output signal		
TrOutMod	AB-BIED600_Rev2_ENG_SP_TrOut-Mod_e	Trip output mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
LORs	ABBIED600_Rev2_SPC_indica-tions_e	RST_LKOUT	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,di-rect-with-normal-security
TrRs	ABBIED600_Rev2_SPC_indica-tions_e	Reset latched trip	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,di-rect-with-normal-security
ClsLO	ABBIED600_Rev1_SPS_e	Circuit breaker lock-out output (set until reset)	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.32 LN: TRPPTRC3 Name: PTRC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_Of-fOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	AB-BIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Tr	ABBIED600_Rev1_ACT_simple_dU	General trip output signal		
Op	ABBIED600_Rev1_ACT_simple_dU	Operate input signal		
TrPlsTmms	ABBIED600_Rev1_ING_SP_1	Minimum duration of trip output signal		
TrOutMod	AB-BIED600_Rev2_ENG_SP_TrOut-Mod_e	Trip output mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
LORs	ABBIED600_Rev2_SPC_indica-tions_e	RST_LKOUT	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,di-rect-with-normal-security
TrRs	ABBIED600_Rev2_SPC_indica-tions_e	Reset latched trip	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,di-rect-with-normal-security
ClsLO	ABBIED600_Rev1_SPS_e	Circuit breaker lock-out output (set until reset)	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.33 LN: TRPPTRC4 Name: PTRC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OfFOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Tr	ABBIED600_Rev1_ACT_simple_dU	General trip output signal		
Op	ABBIED600_Rev1_ACT_simple_dU	Operate input signal		
TrPlsTmms	ABBIED600_Rev1_ING_SP_1	Minimum duration of trip output signal		
TrOutMod	ABBIED600_Rev2_ENG_SP_TrOutMod_e	Trip output mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
LORs	ABBIED600_Rev2_SPC_indications_e	RST_LKOUT	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
TrRs	ABBIED600_Rev2_SPC_indications_e	Reset latched trip	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
ClsLO	ABBIED600_Rev1_SPS_e	Circuit breaker lockout output (set until reset)	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.34 LN: MAPGAPC1 Name: GAPC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OfFOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1_e	Operate delay time	E	REx620 MICS:2015>IEC 61850-7-4:2003
RsDlTmms	ABBIED600_Rev1_ING_SP_e	Reset delay time	E	REx620 MICS:2015>IEC 61850-7-4:2003

AnIn	ABBIED600_Rev3_MV_2_e	Analogue input	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpModCom	ABBIED600_Rev2_ENG_SP_OpModComp_e	Operation mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
HysAbs	ABBIED600_Rev3_ASG_SP_i_e	Absolute hysteresis for operation	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrValAdd	ABBIED600_Rev3_ASG_SG_i_ED1_e	Start value Add	E	REx620 MICS:2015>IEC 61850-7-4:2003
InEnaAdd	ABBIED600_Rev1_SPS_e	Enable start with added start value	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.35 LN: MAPGAPC2 Name: GAPC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1_e	Operate delay time	E	REx620 MICS:2015>IEC 61850-7-4:2003
RsDlTmms	ABBIED600_Rev1_ING_SP_e	Reset delay time	E	REx620 MICS:2015>IEC 61850-7-4:2003
AnIn	ABBIED600_Rev3_MV_2_e	Analogue input	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpModCom	ABBIED600_Rev2_ENG_SP_OpModComp_e	Operation mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
HysAbs	ABBIED600_Rev3_ASG_SP_i_e	Absolute hysteresis for operation	E	REx620 MICS:2015>IEC 61850-7-4:2003

StrValAdd	ABBIED600_Rev3_ASG_SG_i_ED1_e	Start value Add	E	REx620 MICS:2015>IEC 61850-7-4:2003
InEnaAdd	ABBIED600_Rev1_SPS_e	Enable start with added start value	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.36 LN: MAPGAPC3 Name: GAPC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_Of-fOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1_e	Operate de-lay time	E	REx620 MICS:2015>IEC 61850-7-4:2003
RsDlTmms	ABBIED600_Rev1_ING_SP_e	Reset delay time	E	REx620 MICS:2015>IEC 61850-7-4:2003
AnIn	ABBIED600_Rev3_MV_2_e	Analogue in-put	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpModCom	ABBIED600_Rev2_ENG_SP_OpMod-Comp_e	Operation mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	AB-BIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
HysAbs	ABBIED600_Rev3_ASG_SP_i_e	Absolute hys-teresis for op-eration	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrValAdd	ABBIED600_Rev3_ASG_SG_i_ED1_e	Start value Add	E	REx620 MICS:2015>IEC 61850-7-4:2003
InEnaAdd	ABBIED600_Rev1_SPS_e	Enable start with added start value	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.37 LN: MAPGAPC4 Name: GAPC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_Of-fOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		

Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1_e	Operate delay time	E	REx620 MICS:2015>IEC 61850-7-4:2003
RsDlTmms	ABBIED600_Rev1_ING_SP_e	Reset delay time	E	REx620 MICS:2015>IEC 61850-7-4:2003
AnIn	ABBIED600_Rev3_MV_2_e	Analogue input	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpModCom	ABBIED600_Rev2_ENG_SP_OpModComp_e	Operation mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
HysAbs	ABBIED600_Rev3_ASG_SP_i_e	Absolute hysteresis for operation	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrValAdd	ABBIED600_Rev3_ASG_SG_i_ED1_e	Start value Add	E	REx620 MICS:2015>IEC 61850-7-4:2003
InEnaAdd	ABBIED600_Rev1_SPS_e	Enable start with added start value	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.38 LN: MAPGAPC5 Name: GAPC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1_e	Operate delay time	E	REx620 MICS:2015>IEC 61850-7-4:2003

RsDlTmms	ABBIED600_Rev1_ING_SP_e	Reset delay time	E	REx620 MICS:2015>IEC 61850-7-4:2003
AnIn	ABBIED600_Rev3_MV_2_e	Analogue input	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpModCom	ABBIED600_Rev2_ENG_SP_OpModComp_e	Operation mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
HysAbs	ABBIED600_Rev3_ASG_SP_i_e	Absolute hysteresis for operation	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrValAdd	ABBIED600_Rev3_ASG_SG_i_ED1_e	Start value Add	E	REx620 MICS:2015>IEC 61850-7-4:2003
InEnaAdd	ABBIED600_Rev1_SPS_e	Enable start with added start value	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.39 LN: MAPGAPC6 Name: GAPC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1_e	Operate delay time	E	REx620 MICS:2015>IEC 61850-7-4:2003
RsDlTmms	ABBIED600_Rev1_ING_SP_e	Reset delay time	E	REx620 MICS:2015>IEC 61850-7-4:2003
AnIn	ABBIED600_Rev3_MV_2_e	Analogue input	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpModCom	ABBIED600_Rev2_ENG_SP_OpModComp_e	Operation mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003

HysAbs	ABBIED600_Rev3_ASG_SP_i_e	Absolute hysteresis for operation	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrValAdd	ABBIED600_Rev3_ASG_SG_i_ED1_e	Start value Add	E	REx620 MICS:2015>IEC 61850-7-4:2003
InEnaAdd	ABBIED600_Rev1_SPS_e	Enable start with added start value	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.40 LN: MAPGAPC7 Name: GAPC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OfOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1_e	Operate delay time	E	REx620 MICS:2015>IEC 61850-7-4:2003
RsDlTmms	ABBIED600_Rev1_ING_SP_e	Reset delay time	E	REx620 MICS:2015>IEC 61850-7-4:2003
AnIn	ABBIED600_Rev3_MV_2_e	Analogue input	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpModCom	ABBIED600_Rev2_ENG_SP_OpModComp_e	Operation mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
HysAbs	ABBIED600_Rev3_ASG_SP_i_e	Absolute hysteresis for operation	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrValAdd	ABBIED600_Rev3_ASG_SG_i_ED1_e	Start value Add	E	REx620 MICS:2015>IEC 61850-7-4:2003
InEnaAdd	ABBIED600_Rev1_SPS_e	Enable start with added start value	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.41 LN: MAPGAPC8 Name: GAPC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

Mod	ABBIED600_Rev2_INC_Mod_OfFOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1_e	Operate delay time	E	REx620 MICS:2015>IEC 61850-7-4:2003
RsDlTmms	ABBIED600_Rev1_ING_SP_e	Reset delay time	E	REx620 MICS:2015>IEC 61850-7-4:2003
AnIn	ABBIED600_Rev3_MV_2_e	Analogue input	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpModCom	ABBIED600_Rev2_ENG_SP_OpModComp_e	Operation mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
HysAbs	ABBIED600_Rev3_ASG_SP_i_e	Absolute hysteresis for operation	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrValAdd	ABBIED600_Rev3_ASG_SG_i_ED1_e	Start value Add	E	REx620 MICS:2015>IEC 61850-7-4:2003
InEnaAdd	ABBIED600_Rev1_SPS_e	Enable start with added start value	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.42 LN: MAPGAPC9 Name: GAPC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OfFOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		

OpDlTmms	ABBIED600_Rev1_ING_SG_ED1_e	Operate delay time	E	REx620 MICS:2015>IEC 61850-7-4:2003
RsDlTmms	ABBIED600_Rev1_ING_SP_e	Reset delay time	E	REx620 MICS:2015>IEC 61850-7-4:2003
AnIn	ABBIED600_Rev3_MV_2_e	Analogue input	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpModCom	ABBIED600_Rev2_ENG_SP_OpModComp_e	Operation mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
HysAbs	ABBIED600_Rev3_ASG_SP_i_e	Absolute hysteresis for operation	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrValAdd	ABBIED600_Rev3_ASG_SG_i_ED1_e	Start value Add	E	REx620 MICS:2015>IEC 61850-7-4:2003
InEnaAdd	ABBIED600_Rev1_SPS_e	Enable start with added start value	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.43 LN: MAPGAPC10 Name: GAPC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1_e	Operate delay time	E	REx620 MICS:2015>IEC 61850-7-4:2003
RsDlTmms	ABBIED600_Rev1_ING_SP_e	Reset delay time	E	REx620 MICS:2015>IEC 61850-7-4:2003
AnIn	ABBIED600_Rev3_MV_2_e	Analogue input	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpModCom	ABBIED600_Rev2_ENG_SP_OpModComp_e	Operation mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
HysAbs	ABBIED600_Rev3_ASG_SP_i_e	Absolute hysteresis for operation	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrValAdd	ABBIED600_Rev3_ASG_SG_i_ED1_e	Start value Add	E	REx620 MICS:2015>IEC 61850-7-4:2003
InEnaAdd	ABBIED600_Rev1_SPS_e	Enable start with added start value	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.44 LN: MAPGAPC11 Name: GAPC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1_e	Operate delay time	E	REx620 MICS:2015>IEC 61850-7-4:2003
RsDlTmms	ABBIED600_Rev1_ING_SP_e	Reset delay time	E	REx620 MICS:2015>IEC 61850-7-4:2003
AnIn	ABBIED600_Rev3_MV_2_e	Analogue input	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpModCom	ABBIED600_Rev2_ENG_SP_OpModComp_e	Operation mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
HysAbs	ABBIED600_Rev3_ASG_SP_i_e	Absolute hysteresis for operation	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrValAdd	ABBIED600_Rev3_ASG_SG_i_ED1_e	Start value Add	E	REx620 MICS:2015>IEC 61850-7-4:2003
InEnaAdd	ABBIED600_Rev1_SPS_e	Enable start with added start value	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.45 LN: MAPGAPC12 Name: GAPC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OfFOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1_e	Operate delay time	E	REx620 MICS:2015>IEC 61850-7-4:2003
RsDlTmms	ABBIED600_Rev1_ING_SP_e	Reset delay time	E	REx620 MICS:2015>IEC 61850-7-4:2003
AnIn	ABBIED600_Rev3_MV_2_e	Analogue input	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpModCom	ABBIED600_Rev2_ENG_SP_OpModComp_e	Operation mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
HysAbs	ABBIED600_Rev3_ASG_SP_i_e	Absolute hysteresis for operation	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrValAdd	ABBIED600_Rev3_ASG_SG_i_ED1_e	Start value Add	E	REx620 MICS:2015>IEC 61850-7-4:2003
InEnaAdd	ABBIED600_Rev1_SPS_e	Enable start with added start value	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.46 LN: MAPGAPC13 Name: GAPC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OfFOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003

Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1_e	Operate delay time	E	REx620 MICS:2015>IEC 61850-7-4:2003
RsDlTmms	ABBIED600_Rev1_ING_SP_e	Reset delay time	E	REx620 MICS:2015>IEC 61850-7-4:2003
AnIn	ABBIED600_Rev3_MV_2_e	Analogue input	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpModCom	ABBIED600_Rev2_ENG_SP_OpModComp_e	Operation mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
HysAbs	ABBIED600_Rev3_ASG_SP_i_e	Absolute hysteresis for operation	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrValAdd	ABBIED600_Rev3_ASG_SG_i_ED1_e	Start value Add	E	REx620 MICS:2015>IEC 61850-7-4:2003
InEnaAdd	ABBIED600_Rev1_SPS_e	Enable start with added start value	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.47 LN: MAPGAPC14 Name: GAPC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1_e	Operate delay time	E	REx620 MICS:2015>IEC 61850-7-4:2003
RsDlTmms	ABBIED600_Rev1_ING_SP_e	Reset delay time	E	REx620 MICS:2015>IEC 61850-7-4:2003
AnIn	ABBIED600_Rev3_MV_2_e	Analogue input	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpModCom	ABBIED600_Rev2_ENG_SP_OpModComp_e	Operation mode	E	REx620 MICS:2015>IEC 61850-7-4:2003

TstOutCmd	AB-BIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
HysAbs	ABBIED600_Rev3_ASG_SP_i_e	Absolute hysteresis for operation	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrValAdd	ABBIED600_Rev3_ASG_SG_i_ED1_e	Start value Add	E	REx620 MICS:2015>IEC 61850-7-4:2003
InEnaAdd	ABBIED600_Rev1_SPS_e	Enable start with added start value	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.48 LN: MAPGAPC15 Name: GAPC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OfFOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1_e	Operate delay time	E	REx620 MICS:2015>IEC 61850-7-4:2003
RsDlTmms	ABBIED600_Rev1_ING_SP_e	Reset delay time	E	REx620 MICS:2015>IEC 61850-7-4:2003
AnIn	ABBIED600_Rev3_MV_2_e	Analogue input	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpModCom	ABBIED600_Rev2_ENG_SP_OpModComp_e	Operation mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	AB-BIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
HysAbs	ABBIED600_Rev3_ASG_SP_i_e	Absolute hysteresis for operation	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrValAdd	ABBIED600_Rev3_ASG_SG_i_ED1_e	Start value Add	E	REx620 MICS:2015>IEC 61850-7-4:2003

InEnaAdd	ABBIED600_Rev1_SPS_e	Enable start with added start value	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.49 LN: MAPGAPC16 Name: GAPC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1_e	Operate delay time	E	REx620 MICS:2015>IEC 61850-7-4:2003
RsDlTmms	ABBIED600_Rev1_ING_SP_e	Reset delay time	E	REx620 MICS:2015>IEC 61850-7-4:2003
AnIn	ABBIED600_Rev3_MV_2_e	Analogue input	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpModCom	ABBIED600_Rev2_ENG_SP_OpModComp_e	Operation mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
HysAbs	ABBIED600_Rev3_ASG_SP_i_e	Absolute hysteresis for operation	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrValAdd	ABBIED600_Rev3_ASG_SG_i_ED1_e	Start value Add	E	REx620 MICS:2015>IEC 61850-7-4:2003
InEnaAdd	ABBIED600_Rev1_SPS_e	Enable start with added start value	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.50 LN: MAPGAPC17 Name: GAPC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only

Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1_e	Operate delay time	E	REx620 MICS:2015>IEC 61850-7-4:2003
RsDlTmms	ABBIED600_Rev1_ING_SP_e	Reset delay time	E	REx620 MICS:2015>IEC 61850-7-4:2003
AnIn	ABBIED600_Rev3_MV_2_e	Analogue input	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpModCom	ABBIED600_Rev2_ENG_SP_OpModComp_e	Operation mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
HysAbs	ABBIED600_Rev3_ASG_SP_i_e	Absolute hysteresis for operation	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrValAdd	ABBIED600_Rev3_ASG_SG_i_ED1_e	Start value Add	E	REx620 MICS:2015>IEC 61850-7-4:2003
InEnaAdd	ABBIED600_Rev1_SPS_e	Enable start with added start value	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.51 LN: MAPGAPC18 Name: GAPC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1_e	Operate delay time	E	REx620 MICS:2015>IEC 61850-7-4:2003
RsDlTmms	ABBIED600_Rev1_ING_SP_e	Reset delay time	E	REx620 MICS:2015>IEC 61850-7-4:2003
AnIn	ABBIED600_Rev3_MV_2_e	Analogue input	E	REx620 MICS:2015>IEC 61850-7-4:2003

OpModCom	ABBIED600_Rev2_ENG_SP_OpMod-Comp_e	Operation mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	AB-BIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
HysAbs	ABBIED600_Rev3_ASG_SP_i_e	Absolute hys-teresis for op-eration	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrValAdd	ABBIED600_Rev3_ASG_SG_i_ED1_e	Start value Add	E	REx620 MICS:2015>IEC 61850-7-4:2003
InEnaAdd	ABBIED600_Rev1_SPS_e	Enable start with added start value	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.52 LN: CMMXU1 Name: MMXU (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_Of-fOn_FD_ED1	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
A	AB-BIED600_Rev3_WYE_threephase_full_i	Phase currents		
AMeas-Mod	ABBIED600_Rev3_ENG_SP_Meas-Mod_e	Selects used measurement mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
NumPh	ABBIED600_Rev3_ENG_SP_StrPhSel_e	Number of phases required by limit supervi-sion	E	REx620 MICS:2015>IEC 61850-7-4:2003
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	REx620 MICS:2015>IEC 61850-7-4:2003
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	REx620 MICS:2015>IEC 61850-7-4:2003
LoWrn	ABBIED600_Rev1_SPS_e	Low warning	E	REx620 MICS:2015>IEC 61850-7-4:2003
LoAlm	ABBIED600_Rev1_SPS_e	Low alarm	E	REx620 MICS:2015>IEC 61850-7-4:2003
RcdRs	ABBIED600_Rev2_SPC_control_e	CMMXU1 de-mands	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,di-rect-with-normal-security

6.2.53 LN: CAVMMXU1 Name: MMXU (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
A	AB-BIED600_Rev3_WYE_threephase_sim-pler_i	Phase current		
ClcMth	ABBIED600_Rev3_ENG_SP_ClcMth	Calculation method of statistical data ob-jects	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClcMod	ABBIED600_Rev2_ENG_SP_ClcMod	Calculation mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClcSrc	ABBIED600_Rev4_ORG_SP_1	Object reference to source logical node		

6.2.54 LN: CMAMMXU1 Name: MMXU (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
A	AB-BIED600_Rev3_WYE_threephase_sim-pler_i	Phase current		
ClcMth	ABBIED600_Rev3_ENG_SP_ClcMth	Calculation method of statistical data ob-jects	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClcMod	ABBIED600_Rev2_ENG_SP_ClcMod	Calculation mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClcSrc	ABBIED600_Rev4_ORG_SP_1	Object reference to source logical node		

6.2.55 LN: CMIMMXU1 Name: MMXU (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
A	AB-BIED600_Rev3_WYE_threephase_sim-pler_i	Phase current		

ClcMth	ABBIED600_Rev3_ENG_SP_ClcMth	Calculation method of statistical data objects	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClcMod	ABBIED600_Rev2_ENG_SP_ClcMod	Calculation mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClcSrc	ABBIED600_Rev4_ORG_SP_1	Object reference to source logical node		

6.2.56 LN: PEAVMMXU1 Name: MMXU (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
TotW	ABBIED600_Rev3_MV_simple_i	Average active power		
TotVAr	ABBIED600_Rev3_MV_simple_i	Average reactive power		
TotVA	ABBIED600_Rev3_MV_simple_i	Average apparent power		
TotPF	ABBIED600_Rev3_MV_simple_i	Average power factor		
ClcMod	ABBIED600_Rev2_ENG_SP_ClcMod	Calculation mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClcMth	ABBIED600_Rev3_ENG_SP_ClcMth	Calculation method of statistical data objects	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClcSrc	ABBIED600_Rev4_ORG_SP_1	Object reference to source logical node		

6.2.57 LN: PEMAMMXU1 Name: MMXU (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
TotW	ABBIED600_Rev3_MV_simple_i	Maximum active power		
TotVAr	ABBIED600_Rev3_MV_simple_i	Maximum reactive power		
TotVA	ABBIED600_Rev3_MV_simple_i	Maximum apparent power		
ClcMod	ABBIED600_Rev2_ENG_SP_ClcMod	Calculation mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClcMth	ABBIED600_Rev3_ENG_SP_ClcMth	Calculation method of statistical data objects	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClcSrc	ABBIED600_Rev4_ORG_SP_1	Object reference to source logical node		

6.2.58 LN: PEMIMMXU1 Name: MMXU (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
TotW	ABBIED600_Rev3_MV_simple_i	Minimum active power		
TotVAr	ABBIED600_Rev3_MV_simple_i	Minimum reactive power		
TotVA	ABBIED600_Rev3_MV_simple_i	Minimum apparent power		
ClcMod	AB-BIED600_Rev2_ENG_SP_ClcMod	Calculation mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClcMth	ABBIED600_Rev3_ENG_SP_ClcMth	Calculation method of statistical data objects	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClcSrc	ABBIED600_Rev4_ORG_SP_1	Object reference to source logical node		

6.2.59 LN: CMHAI1 Name: MHAI (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_Of-fOn_FD_ED1	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary out-puts	E	REx620 MICS:2015>IEC 61850-7-4:2003
Hz	ABBIED600_Rev3_MV_simple_i	Fundamental frequency		
TddA	ABBIED600_Rev3_WYE_threephase_sim-ple_i	Current Total Demand Distor-tion per IEEE 519		
NomA	ABBIED600_Rev3_ASG_SP_i	Normalising de-mand current used in IEEE 519 TDD calcu-lation		
Alm	ABBIED600_Rev1_SPS	Alarm		
TddAVal	ABBIED600_Rev3_ASG_SP_i_e	TddA Alarm setting - value entered in %	E	REx620 MICS:2015>IEC 61850-7-4:2003
RcdRs	ABBIED600_Rev2_SPC_control_e	CMHAI1 max.demands	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-

				only,direct-with-normal-security
DmdItrv	ABBIED600_Rev2_ENG_SP_dmdItrv_e	Time interval for demand calculation	E	REx620 MICS:2015>IEC 61850-7-4:2003
DmdTddA	ABBIED600_Rev3_WYE_threephase_simple_i_e	Current Total Demand Distortion	E	REx620 MICS:2015>IEC 61850-7-4:2003
MaxDmdTddA	ABBIED600_Rev3_WYE_threephase_simple_i_e	Maximum current total demand distortion	E	REx620 MICS:2015>IEC 61850-7-4:2003
DmdWinMod	ABBIED600_Rev2_ENG_SP_DmdWinMod_e	Demand calculation window	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.60 LN: VMHAI1 Name: MHAI (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Hz	ABBIED600_Rev3_MV_simple_i	Fundamental frequency		
ThdPhV	ABBIED600_Rev3_WYE_threephase_simple_i	Voltage Total Harmonic Distortion per IEEE 519		
ThdVVal	ABBIED600_Rev3_ASG_SP_i	ThdPhV / ThdPPV alarm Setting – value entered in %		
Alm	ABBIED600_Rev1_SPS	Alarm		
RcdRs	ABBIED600_Rev2_SPC_control_e	VMHAI1 max.demands	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
DmdItrv	ABBIED600_Rev2_ENG_SP_dmdItrv_e	Time interval for demand calculation	E	REx620 MICS:2015>IEC 61850-7-4:2003
DmdThdPhV	ABBIED600_Rev3_WYE_threephase_simple_i_e	Voltage Total Harmonic Distortion	E	REx620 MICS:2015>IEC 61850-7-4:2003
MaxDmdThdV	ABBIED600_Rev3_WYE_threephase_simple_i_e	Maximum voltage total harmonic distortion	E	REx620 MICS:2015>IEC 61850-7-4:2003

DmdWinMod	AB-BIED600_Rev2_ENG_SP_DmdWinMod_e	Demand calcu-lation window	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.61 LN: TPGAPC1 Name: GAPC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Str		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Op		ED1 only
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
SPCSO1	ABBIED600_Rev1_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple	Q2		status-only
PlsTmms	ABBIED600_Rev1_ING_SP_1_e	Minimum pulse time		

6.2.62 LN: TPGAPC2 Name: GAPC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Str		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Op		ED1 only
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
SPCSO1	ABBIED600_Rev1_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple	Q2		status-only
PlsTmms	ABBIED600_Rev1_ING_SP_1_e	Minimum pulse time		

6.2.63 LN: TPGAPC3 Name: GAPC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Str		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Op		ED1 only
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
SPCSO1	ABBIED600_Rev1_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple	Q2		status-only

PlsTmms	ABBIED600_Rev1_ING_SP_1_e	Minimum pulse time		

6.2.64 LN: TPGAPC4 Name: GAPC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Str		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Op		ED1 only
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
SPCSO1	ABBIED600_Rev1_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple	Q2		status-only
PlsTmms	ABBIED600_Rev1_ING_SP_1_e	Minimum pulse time		

6.2.65 LN: PTGAPC1 Name: GAPC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Start		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Operate		ED1 only
Ind1	ABBIED600_Rev1_SPS	Input 1		
Ind2	ABBIED600_Rev1_SPS	Input 2		
Ind3	ABBIED600_Rev1_SPS	Input 3		
Ind4	ABBIED600_Rev1_SPS	Input 4		
Ind5	ABBIED600_Rev1_SPS	Input 5		
Ind6	ABBIED600_Rev1_SPS	Input 6		
Ind7	ABBIED600_Rev1_SPS	Input 7		
Ind8	ABBIED600_Rev1_SPS	Input 8		
SPCSO1	ABBIED600_Rev1_SPC_simple	Output 1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple	Output 2		status-only
SPCSO3	ABBIED600_Rev1_SPC_simple	Output 3		status-only
SPCSO4	ABBIED600_Rev1_SPC_simple	Output 4		status-only
SPCSO5	ABBIED600_Rev1_SPC_simple	Output 5		status-only
SPCSO6	ABBIED600_Rev1_SPC_simple	Output 6		status-only
SPCSO7	ABBIED600_Rev1_SPC_simple	Output 7		status-only
SPCSO8	ABBIED600_Rev1_SPC_simple	Output 8		status-only
PlsTmms1	ABBIED600_Rev1_ING_SP_e	Pulse time 1		
PlsTmms2	ABBIED600_Rev1_ING_SP_e	Pulse time 2		
PlsTmms3	ABBIED600_Rev1_ING_SP_e	Pulse time 3		

PlsTmms4	ABBIED600_Rev1_ING_SP_e	Pulse time 4		
PlsTmms5	ABBIED600_Rev1_ING_SP_e	Pulse time 5		
PlsTmms6	ABBIED600_Rev1_ING_SP_e	Pulse time 6		
PlsTmms7	ABBIED600_Rev1_ING_SP_e	Pulse time 7		
PlsTmms8	ABBIED600_Rev1_ING_SP_e	Pulse time 8		

6.2.66 LN: PTGAPC2 Name: GAPC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Start		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Operate		ED1 only
Ind1	ABBIED600_Rev1_SPS	Input 1		
Ind2	ABBIED600_Rev1_SPS	Input 2		
Ind3	ABBIED600_Rev1_SPS	Input 3		
Ind4	ABBIED600_Rev1_SPS	Input 4		
Ind5	ABBIED600_Rev1_SPS	Input 5		
Ind6	ABBIED600_Rev1_SPS	Input 6		
Ind7	ABBIED600_Rev1_SPS	Input 7		
Ind8	ABBIED600_Rev1_SPS	Input 8		
SPCSO1	ABBIED600_Rev1_SPC_simple	Output 1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple	Output 2		status-only
SPCSO3	ABBIED600_Rev1_SPC_simple	Output 3		status-only
SPCSO4	ABBIED600_Rev1_SPC_simple	Output 4		status-only
SPCSO5	ABBIED600_Rev1_SPC_simple	Output 5		status-only
SPCSO6	ABBIED600_Rev1_SPC_simple	Output 6		status-only
SPCSO7	ABBIED600_Rev1_SPC_simple	Output 7		status-only
SPCSO8	ABBIED600_Rev1_SPC_simple	Output 8		status-only
PlsTmms1	ABBIED600_Rev1_ING_SP_e	Pulse time 1		
PlsTmms2	ABBIED600_Rev1_ING_SP_e	Pulse time 2		
PlsTmms3	ABBIED600_Rev1_ING_SP_e	Pulse time 3		
PlsTmms4	ABBIED600_Rev1_ING_SP_e	Pulse time 4		
PlsTmms5	ABBIED600_Rev1_ING_SP_e	Pulse time 5		
PlsTmms6	ABBIED600_Rev1_ING_SP_e	Pulse time 6		
PlsTmms7	ABBIED600_Rev1_ING_SP_e	Pulse time 7		
PlsTmms8	ABBIED600_Rev1_ING_SP_e	Pulse time 8		

6.2.67 LN: DPHLPTOC2 Name: PTOC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG_ED1	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i_ED1	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv_ED1	Type of Reset Curve		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod_ED1	Directional Mode		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	REx620 MICS:2015>IEC 61850-7-4:2003
NumPh	ABBIED600_Rev3_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrValMult	ABBIED600_Rev3_ASG_SG_i_ED1_e	Multiplier for scaling the start value	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
AMeasMod	ABBIED600_Rev3_ENG_SP_MeasMod_e	Measuring mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
TestPro	ABBIED600_Rev2_INC_TestPro_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
AllwNonDir	ABBIED600_Rev1_SPG_SP_e	Allows prot activation as non-dir when dir info is invalid	E	REx620 MICS:2015>IEC 61850-7-4:2003

NonDir	ABBIED600_Rev1_SPS_e	Forces protection to non-directional	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.68 LN: DPHHPTOC2 Name: PTOC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG_ED1	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i_ED1	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv_ED1	Selection of reset curve type		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod_ED1	Directional Mode		
InEnaMult	ABBIED600_Rev1_SPS_e	Enables current multiplier	E	REx620 MICS:2015>IEC 61850-7-4:2003
NumPh	ABBIED600_Rev3_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrValMult	ABBIED600_Rev3_ASG_SG_i_ED1_e	Multiplier for scaling the start value	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
AMeasMod	ABBIED600_Rev3_ENG_SP_MeasMod_e	Selects used measurement mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
TestPro	ABBIED600_Rev2_INC_TestPro_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-

				only,direct-with-normal-security
AllwNonDir	ABBIED600_Rev1_SPG_SP_e	Allows prot activation as non-dir when dir info is invalid	E	REx620 MICS:2015>IEC 61850-7-4:2003
NonDir	ABBIED600_Rev1_SPS_e	Forces protection to non-directional	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.69 LN: PHPVOC1 Name: PVOC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG_ED1	Operating Curve Type		
TmMult	ABBIED600_Rev3_ASG_SG_i_ED1	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv_ED1	Type of Reset Curve		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	REx620 MICS:2015>IEC 61850-7-4:2003
InEnaLoLim	ABBIED600_Rev1_SPS_e	Enable signal for voltage dependent lower start value	E	REx620 MICS:2015>IEC 61850-7-4:2003
AMeasMod	ABBIED600_Rev3_ENG_SP_MeasMod_e	Measuring mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
CtlMod	ABBIED600_Rev3_ENG_SP_CtlMod_e	Control mode	E	REx620 MICS:2015>IEC 61850-7-4:2003

NumPh	ABBIED600_Rev3_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	REx620 MICS:2015>IEC 61850-7-4:2003
LoStrVal	ABBIED600_Rev3_ASG_SG_i_ED1_e	Lower start value based on voltage control	E	REx620 MICS:2015>IEC 61850-7-4:2003
VHiLim	ABBIED600_Rev3_ASG_SG_i_ED1_e	Voltage high limit for voltage control	E	REx620 MICS:2015>IEC 61850-7-4:2003
VLoLim	ABBIED600_Rev3_ASG_SG_i_ED1_e	Voltage low limit for voltage control	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrValMult	ABBIED600_Rev3_ASG_SG_i_ED1_e	Multiplier for scaling the start value	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
EffStrVal	ABBIED600_Rev3_WYE_threephase_simple_i_e	Calculated effective start value	E	REx620 MICS:2015>IEC 61850-7-4:2003
TestPro	ABBIED600_Rev2_INC_TestPro_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.70 LN: PHPVOC2 Name: PVOC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG_ED1	Operating Curve Type		
TmMult	ABBIED600_Rev3_ASG_SG_i_ED1	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv_ED1	Type of Reset Curve		

RsDlT-mms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	REx620 MICS:2015>IEC 61850-7-4:2003
InEnaLo-Lim	ABBIED600_Rev1_SPS_e	Enable signal for voltage dependent lower start value	E	REx620 MICS:2015>IEC 61850-7-4:2003
AMeas-Mod	ABBIED600_Rev3_ENG_SP_MeasMod_e	Measuring mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
CtlMod	ABBIED600_Rev3_ENG_SP_CtlMod_e	Control mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
NumPh	ABBIED600_Rev3_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	REx620 MICS:2015>IEC 61850-7-4:2003
LoStrVal	ABBIED600_Rev3_ASG_SG_i_ED1_e	Lower start value based on voltage control	E	REx620 MICS:2015>IEC 61850-7-4:2003
VHiLim	ABBIED600_Rev3_ASG_SG_i_ED1_e	Voltage high limit for voltage control	E	REx620 MICS:2015>IEC 61850-7-4:2003
VLoLim	ABBIED600_Rev3_ASG_SG_i_ED1_e	Voltage low limit for voltage control	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrValMult	ABBIED600_Rev3_ASG_SG_i_ED1_e	Multiplier for scaling the start value	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
EffStrVal	ABBIED600_Rev3_WYE_threephase_simple_i_e	Calculated effective start value	E	REx620 MICS:2015>IEC 61850-7-4:2003
TestPro	ABBIED600_Rev2_INC_TestPro_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.71 LN: EFLPTOC2 Name: PTOC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OfFOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only

Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG_ED1	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i_ED1	Time Dial Multiplier		
MinOp-Tmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv_ED1	Type of Reset Curve		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
AMeasMod	ABBIED600_Rev3_ENG_SP_MeasMod_e	Measurement mode selection	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrValMult	ABBIED600_Rev3_ASG_SG_i_ED1_e	Multiplier for operate current level	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
InEnaMult	ABBIED600_Rev1_SPS_e	Enable current multiplier	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
AResSigSel	ABBIED600_Rev2_ENG_SP_AResSigSel_e	Selection for used Io signal	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.72 LN: EFIPTOC1 Name: PTOC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		

Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
StrValMult	ABBIED600_Rev3_ASG_SG_i_ED1_e	Multiplier for operate current level	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
InEnaMult	ABBIED600_Rev1_SPS_e	Enable current multiplier	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
AResSigSel	ABBIED600_Rev2_ENG_SP_AResSigSel_e	Selection for used Io signal	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.73 LN: DEFLPTOC2 Name: PTOC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG_ED1	Curve parameter E		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i_ED1	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv_ED1	Selection of reset curve type		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		

DirMod	ABBIED600_Rev3_ENG_SG_DirMod_ED1	Directional Mode		
VStr	ABBIED600_Rev3_ASG_SG_i_ED1_e	Voltage start value	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrValMult	ABBIED600_Rev3_ASG_SG_i_ED1_e	Multiplier for scaling the start value	E	REx620 MICS:2015>IEC 61850-7-4:2003
AllwNonDir	ABBIED600_Rev1_SPG_SP_e	Allows prot activation as non-dir when dir info is invalid	E	REx620 MICS:2015>IEC 61850-7-4:2003
AMeasMod	ABBIED600_Rev3_ENG_SP_MeasMod_e	Selects used measurement mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
InEnaMult	ABBIED600_Rev1_SPS_e	Enables current multiplier	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_simple_i_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
EnaVLim	ABBIED600_Rev1_SPG_SG_ED1_e	Enable voltage limit	E	REx620 MICS:2015>IEC 61850-7-4:2003
TestPro	ABBIED600_Rev2_INC_TestPro_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
AResSigSel	ABBIED600_Rev2_ENG_SP_AResSigSel_e	Selection for used Io signal	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.74 LN: DEFLPTOC3 Name: PTOC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG_ED1	Curve parameter E		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i_ED1	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate Delay Time		

TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv_ED1	Selection of reset curve type		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod_ED1	Directional Mode		
VStr	ABBIED600_Rev3_ASG_SG_i_ED1_e	Voltage start value	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrValMult	ABBIED600_Rev3_ASG_SG_i_ED1_e	Multiplier for scaling the start value	E	REx620 MICS:2015>IEC 61850-7-4:2003
AllwNonDir	ABBIED600_Rev1_SPG_SP_e	Allows prot activation as non-dir when dir info is invalid	E	REx620 MICS:2015>IEC 61850-7-4:2003
AMeasMod	ABBIED600_Rev3_ENG_SP_MeasMod_e	Selects used measurement mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
InEnaMult	ABBIED600_Rev1_SPS_e	Enables current multiplier	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
EnaVLim	ABBIED600_Rev1_SPG_SG_ED1_e	Enable voltage limit	E	REx620 MICS:2015>IEC 61850-7-4:2003
TestPro	ABBIED600_Rev2_INC_TestPro_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
AResSigSel	ABBIED600_Rev2_ENG_SP_AResSigSel_e	Selection for used Io signal	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.75 LN: WPSDE1 Name: PSDE (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
GndStr	ABBIED600_Rev3_ASG_SG_i_ED1	Voltage start value		
GndOp	ABBIED600_Rev3_ASG_SG_i_ED1	Current start value		

OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate delay time		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod_ED1	Directional mode		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1_e	Power start value	E	REx620 MICS:2015>IEC 61850-7-4:2003
TmACrv	ABBIED600_Rev2_CURVE_SG_setCharact_ED1_e	Operating curve type	E	REx620 MICS:2015>IEC 61850-7-4:2003
TmMult	ABBIED600_Rev3_ASG_SG_i_ED1_e	Time multiplier	E	REx620 MICS:2015>IEC 61850-7-4:2003
RsDlTmms	ABBIED600_Rev1_ING_SP_1_e	Reset delay time	E	REx620 MICS:2015>IEC 61850-7-4:2003
RefW	ABBIED600_Rev3_ASG_SG_i_ED1_e	Reference power	E	REx620 MICS:2015>IEC 61850-7-4:2003
AMeasMod	ABBIED600_Rev3_ENG_SP_MeasMod_e	Measurement mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
TestPro	ABBIED600_Rev2_INC_TestPro_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
AResSigSel	ABBIED600_Rev2_ENG_SP_AResSigSel_e	Selection for used Io signal	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.76 LN: WPSDE2 Name: PSDE (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
GndStr	ABBIED600_Rev3_ASG_SG_i_ED1	Voltage start value		
GndOp	ABBIED600_Rev3_ASG_SG_i_ED1	Current start value		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate delay time		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod_ED1	Directional mode		

StrVal	ABBIED600_Rev3_ASG_SG_i_ED1_e	Power start value	E	REx620 MICS:2015>IEC 61850-7-4:2003
TmACrv	ABBIED600_Rev2_CURVE_SG_setChar-act_ED1_e	Operating curve type	E	REx620 MICS:2015>IEC 61850-7-4:2003
TmMult	ABBIED600_Rev3_ASG_SG_i_ED1_e	Time multi-plier	E	REx620 MICS:2015>IEC 61850-7-4:2003
RsDlTmms	ABBIED600_Rev1_ING_SP_1_e	Reset delay time	E	REx620 MICS:2015>IEC 61850-7-4:2003
RefW	ABBIED600_Rev3_ASG_SG_i_ED1_e	Reference power	E	REx620 MICS:2015>IEC 61850-7-4:2003
AMeasMod	ABBIED600_Rev3_ENG_SP_MeasMod_e	Measure-ment mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
TestPro	ABBIED600_Rev2_INC_TestPro_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,di-rect-with-normal-security
AResSigSel	AB-BIED600_Rev2_ENG_SP_AResSigSel_e	Selection for used Io signal	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.77 LN: WPSDE3 Name: PSDE (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_Of-fOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
GndStr	ABBIED600_Rev3_ASG_SG_i_ED1	Voltage start value		
GndOp	ABBIED600_Rev3_ASG_SG_i_ED1	Current start value		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate de-lay time		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod_ED1	Directional mode		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1_e	Power start value	E	REx620 MICS:2015>IEC 61850-7-4:2003
TmACrv	ABBIED600_Rev2_CURVE_SG_setChar-act_ED1_e	Operating curve type	E	REx620 MICS:2015>IEC 61850-7-4:2003

TmMult	ABBIED600_Rev3_ASG_SG_i_ED1_e	Time multi-plier	E	REx620 MICS:2015>IEC 61850-7-4:2003
RsDlTmms	ABBIED600_Rev1_ING_SP_1_e	Reset delay time	E	REx620 MICS:2015>IEC 61850-7-4:2003
RefW	ABBIED600_Rev3_ASG_SG_i_ED1_e	Reference power	E	REx620 MICS:2015>IEC 61850-7-4:2003
AMeasMod	ABBIED600_Rev3_ENG_SP_MeasMod_e	Measure-ment mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
TestPro	ABBIED600_Rev2_INC_TestPro_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,di-rect-with-normal-security
AResSigSel	AB-BIED600_Rev2_ENG_SP_AResSigSel_e	Selection for used Io signal	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.78 LN: MFADPSDE1 Name: PSDE (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_Of-fOn_FD_ED1	Mode		status-only,direct-with-nor-mal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
GndStr	ABBIED600_Rev3_ASG_SG_i_ED1	Voltage start value		
StrDlTmms	ABBIED600_Rev1_ING_SP_1	Start delay time		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate Delay Time		
DirMod	ABBIED600_Rev3_ENG_SG_Dir-Mod_ED1	Directional Mode		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary out-puts	E	REx620 MICS:2015>IEC 61850-7-4:2003
RsDlTmms	ABBIED600_Rev1_ING_SP_1_e	Reset Delay Time	E	REx620 MICS:2015>IEC 61850-7-4:2003
ItmEFInd	ABBIED600_Rev1_SPS_e	Intermittent earth-fault indi-cation	E	REx620 MICS:2015>IEC 61850-7-4:2003
InhEF	ABBIED600_Rev1_SPS_e	Block EF	E	REx620 MICS:2015>IEC 61850-7-4:2003
PkInd	ABBIED600_Rev1_SPS_e	Current transi-ent detection in-dication	E	REx620 MICS:2015>IEC 61850-7-4:2003

TrgSt	ABBIED600_Rev1_SPS_simple_e	Signal indicating function trigger-ing	E	REx620 MICS:2015>IEC 61850-7-4:2003
PkCntLim	ABBIED600_Rev1_ING_SP_1_e	Min requirement for peak counter before start in IEF mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
TestPro	ABBIED600_Rev2_INC_TestPro_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-se-curity
OpModTEF	ABBIED600_Rev3_ENG_SP_Op-ModTEF_e	Operation mode for function	E	REx620 MICS:2015>IEC 61850-7-4:2003
AResSigSel	AB-BIED600_Rev2_ENG_SP_AResSigSel_e	Selection for used Io signal	E	REx620 MICS:2015>IEC 61850-7-4:2003
VResSigSel	AB-BIED600_Rev2_ENG_SP_VResSigSel_e	Selection for used Uo signal	E	REx620 MICS:2015>IEC 61850-7-4:2003
GndOpRev	ABBIED600_Rev3_ASG_SP_i_e	Ground operate value in reverse direction	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.79 LN: INTRPTEF1 Name: PTEF (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_Of-fOn_FD_ED1	Mode		status-only,direct-with-nor-mal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary out-puts	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
GndStr	ABBIED600_Rev3_ASG_SG_i_ED1	Voltage start value		
DirMod	ABBIED600_Rev3_ENG_SG_Dir-Mod_ED1	Directional Mode		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1_e	Operate Delay Time	E	REx620 MICS:2015>IEC 61850-7-4:2003
RsDlTmms	ABBIED600_Rev1_ING_SP_1_e	Reset Delay Time	E	REx620 MICS:2015>IEC 61850-7-4:2003
BlkValA	ABBIED600_Rev3_ASG_SP_i_e	Minimum oper-ating current	E	REx620 MICS:2015>IEC 61850-7-4:2003
InhEF	ABBIED600_Rev1_SPS_e	Block EF	E	REx620 MICS:2015>IEC 61850-7-4:2003

StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
PkCntLim	ABBIED600_Rev1_ING_SP_1_e	Min requirement for peak counter before start in IEF mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
OpModTEF	ABBIED600_Rev3_ENG_SP_OpModTEF_e	Operation mode for function	E	REx620 MICS:2015>IEC 61850-7-4:2003
VResSigSel	ABBIED600_Rev2_ENG_SP_VResSigSel_e	Selection for used Uo signal	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.80 LN: HAEFPTOC1 Name: PTOC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG_ED1	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i_ED1	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev1_ING_SG_ED1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv_ED1	Type of Reset Curve		
RsDlTmms	ABBIED600_Rev1_ING_SP	Reset Delay Time		
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

EnaRef	ABBIED600_Rev1_SPG_SG_ED1_e	Enable reference	E	REx620 MICS:2015>IEC 61850-7-4:2003
HRmsARef	ABBIED600_Rev3_WYE_res_simple_i_e	Reference current from other IEDs	E	REx620 MICS:2015>IEC 61850-7-4:2003
BlkARef	ABBIED600_Rev1_SPS_e	Current comparison status indicator	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.81 LN: NSPTOC1 Name: PTOC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG_ED1	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i_ED1	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv_ED1	Type of Reset Curve		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrValMult	ABBIED600_Rev3_ASG_SG_i_ED1_e	Multiplier for scaling the start value	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.82 LN: NSPTOC2 Name: PTOC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OfFOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG_ED1	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i_ED1	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv_ED1	Type of Reset Curve		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrValMult	ABBIED600_Rev3_ASG_SG_i_ED1_e	Multiplier for scaling the start value	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.83 LN: PDNSPTOC1 Name: PTOC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OfFOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only

Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
ImbNgA	ABBIED600_Rev3_MV_simple_i_e	Measured current ratio I2 / I1	E	REx620 MICS:2015>IEC 61850-7-4:2003
MinPhA	ABBIED600_Rev3_ASG_SP_i_e	Minimum phase current	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.84 LN: FRPTRC4 Name: PTRC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Op	ABBIED600_Rev1_ACT_simple	Operate		
Str	ABBIED600_Rev1_ACD_simple	Start		
TestPro	ABBIED600_Rev2_INC_TestPro_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpModProHz	ABBIED600_Rev2_ENG_SG_OpModProHz_ED1_e	Operation mode	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.85 LN: FRPTRC5 Name: PTRC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

Mod	ABBIED600_Rev2_INC_Mod_Of-fOn_FD_ED1	Mode		status-only,direct-with-normal-se-curity
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Op	ABBIED600_Rev1_ACT_simple	Operate		
Str	ABBIED600_Rev1_ACD_simple	Start		
TestPro	ABBIED600_Rev2_INC_TestPro_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpMod-ProHz	ABBIED600_Rev2_ENG_SG_OpMod-ProHz_ED1_e	Operation mode	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.86 LN: FRPTRC6 Name: PTRC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_Of-fOn_FD_ED1	Mode		status-only,direct-with-normal-se-curity
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Op	ABBIED600_Rev1_ACT_simple	Operate		
Str	ABBIED600_Rev1_ACD_simple	Start		
TestPro	ABBIED600_Rev2_INC_TestPro_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpMod-ProHz	ABBIED600_Rev2_ENG_SG_OpMod-ProHz_ED1_e	Operation mode	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.87 LN: T1PTTR1 Name: PTTR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_Of-fOn_FD_ED1	Mode		status-only,direct-with-nor-mal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only

NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Tmp	ABBIED600_Rev3_MV_simple_i	TEMP		
TmpRl	ABBIED600_Rev3_MV_simple_i	TEMP_RL		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
AlmThm	ABBIED600_Rev1_SPS	Thermal Alarm		
TmpMax	ABBIED600_Rev3_ASG_SG_i_ED1	Operate level temperature		
ConsTms1	ABBIED600_Rev1_ING_SG_ED1	Time constant for thermal model		
AlmVal	ABBIED600_Rev3_ASG_SG_i_ED1	Alarm level temperature		
RsTmp	ABBIED600_Rev2_SPC_control_e	Reset temperature	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
InEnaMult	ABBIED600_Rev1_SPS_e	Enable multiplier for reference setting	E	REx620 MICS:2015>IEC 61850-7-4:2003
BlkThm	ABBIED600_Rev1_SPS	Block reclose signal	E	REx620 MICS:2015>IEC 61850-7-4:2003
TmpUsed	ABBIED600_Rev3_MV_simple_i_e	The ambient temperature used in the calculation	E	REx620 MICS:2015>IEC 61850-7-4:2003
TmpAmb	ABBIED600_Rev3_MV_simple_i_e	Ambient temperature	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpTm	ABBIED600_Rev3_INS_Unit_e	Estimated time to operate	E	REx620 MICS:2015>IEC 61850-7-4:2003
BlkThmRsTm	ABBIED600_Rev3_INS_Unit_e	Estimated time to deactivate BLK_CLOSE	E	REx620 MICS:2015>IEC 61850-7-4:2003
AMult	ABBIED600_Rev1_ING_SG_ED1_e	Current reference multiplier for thermal model	E	REx620 MICS:2015>IEC 61850-7-4:2003
ARef	ABBIED600_Rev3_ASG_SG_i_ED1_e	Current reference for thermal model	E	REx620 MICS:2015>IEC 61850-7-4:2003
EnvTmpSet	ABBIED600_Rev3_ASG_SG_i_ED1_e	Ambient temperature	E	REx620 MICS:2015>IEC 61850-7-4:2003
IniTmp	ABBIED600_Rev3_ASG_SP_i_e	Temperature calculation initial value	E	REx620 MICS:2015>IEC 61850-7-4:2003
RecTmpSet	ABBIED600_Rev3_ASG_SG_i_ED1_e	Temperature for reset of BLK_CLOSE after operate	E	REx620 MICS:2015>IEC 61850-7-4:2003
TmpR	ABBIED600_Rev3_ASG_SG_i_ED1_e	Temperature rise	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-

				only,direct-with-normal-security

6.2.88 LN: PHPTUC1 Name: PTUC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OfFOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Current setting/Start value high		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
BlkValA	ABBIED600_Rev3_ASG_SG_i_ED1	Current setting/Start value low		
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
OpModPh	ABBIED600_Rev2_ENG_SP_OpModPh_e	Operation mode	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.89 LN: INRPHAR1 Name: PHAR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OfFOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_threephase	Start		
PhStr	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		

OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.90 LN: LSHDPTRC1 Name: PTRC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Operate		
Str	ABBIED600_Rev1_ACD_simple	Start		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Time delay to restore		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
LodShdMod	ABBIED600_Rev2_ENG_SG_OpModProHz_ED1_e	Operation mode	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.91 LN: LSHDPTRC2 Name: PTRC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Operate		
Str	ABBIED600_Rev1_ACD_simple	Start		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Time delay to restore		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		

Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
LodShdMod	ABBIED600_Rev2_ENG_SG_OpModProHz_ED1_e	Operation mode	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.92 LN: LSHDPTRC3 Name: PTRC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Operate		
Str	ABBIED600_Rev1_ACD_simple	Start		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Time delay to restore		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
LodShdMod	ABBIED600_Rev2_ENG_SG_OpModProHz_ED1_e	Operation mode	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.93 LN: LSHDPTRC4 Name: PTRC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Operate		
Str	ABBIED600_Rev1_ACD_simple	Start		

OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Time delay to restore		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
LodShdMod	ABBIED600_Rev2_ENG_SG_OpModProHz_ED1_e	Operation mode	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.94 LN: LSHDPTRC5 Name: PTRC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Operate		
Str	ABBIED600_Rev1_ACD_simple	Start		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Time delay to restore		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
LodShdMod	ABBIED600_Rev2_ENG_SG_OpModProHz_ED1_e	Operation mode	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.95 LN: LSHDPTRC6 Name: PTRC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only

NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Operate		
Str	ABBIED600_Rev1_ACD_simple	Start		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Time delay to restore		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
LodShdMod	ABBIED600_Rev2_ENG_SG_OpModProHz_ED1_e	Operation mode	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.96 LN: UPCALH1 Name: CALH (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		
GrAlm	ABBIED600_Rev1_SPS	Operate		
ColOpn	ABBIED600_Rev1_SPS_e	CB_OPEN_CMD	E	REx620 MICS:2015>IEC 61850-7-4:2003
AlmInhTmms	ABBIED600_Rev1_ING_SP_1_e	CB open hold delay	E	REx620 MICS:2015>IEC 61850-7-4:2003
AlmPlsTmms	ABBIED600_Rev1_ING_SP_1_e	Operate pulse time	E	REx620 MICS:2015>IEC 61850-7-4:2003
CBOnDlTmms	ABBIED600_Rev1_ING_SP_1_e	Signal pwr on delay	E	REx620 MICS:2015>IEC 61850-7-4:2003
TestOth	ABBIED600_Rev1_INC_TestOth_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.97 LN: UPCALH2 Name: CALH (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only

NamPlt	ABBIED600_Rev1_LPL_1	Name plate		
GrAlm	ABBIED600_Rev1_SPS	Operate		
ColOpn	ABBIED600_Rev1_SPS_e	CB_OPEN_CMD	E	REx620 MICS:2015>IEC 61850-7-4:2003
AlmInhTmms	ABBIED600_Rev1_ING_SP_1_e	CB open hold delay	E	REx620 MICS:2015>IEC 61850-7-4:2003
AlmPlsTmms	ABBIED600_Rev1_ING_SP_1_e	Operate pulse time	E	REx620 MICS:2015>IEC 61850-7-4:2003
CBOnDlTmms	ABBIED600_Rev1_ING_SP_1_e	Signal pwr on delay	E	REx620 MICS:2015>IEC 61850-7-4:2003
TestOth	ABBIED600_Rev1_INC_TestOth_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.98 LN: UPCALH3 Name: CALH (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		
GrAlm	ABBIED600_Rev1_SPS	Operate		
ColOpn	ABBIED600_Rev1_SPS_e	CB_OPEN_CMD	E	REx620 MICS:2015>IEC 61850-7-4:2003
AlmInhTmms	ABBIED600_Rev1_ING_SP_1_e	CB open hold delay	E	REx620 MICS:2015>IEC 61850-7-4:2003
AlmPlsTmms	ABBIED600_Rev1_ING_SP_1_e	Operate pulse time	E	REx620 MICS:2015>IEC 61850-7-4:2003
CBOnDlTmms	ABBIED600_Rev1_ING_SP_1_e	Signal pwr on delay	E	REx620 MICS:2015>IEC 61850-7-4:2003
TestOth	ABBIED600_Rev1_INC_TestOth_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.99 LN: PH3HPTOC1 Name: PTOC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_threephase	Start		

Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG_ED1	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i_ED1	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev1_ING_SP	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv_ED1	Type of Reset Curve		
RsDlTmms	ABBIED600_Rev1_ING_SP	Reset Delay Time		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	REx620 MICS:2015>IEC 61850-7-4:2003
NumPh	ABBIED600_Rev3_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrValMult	ABBIED600_Rev3_ASG_SG_i_ED1_e	Multiplier for scaling the start value	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
AMeasMod	ABBIED600_Rev3_ENG_SP_MeasMod_e	Measuring mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.100 LN: PH3HPTOC2 Name: PTOC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG_ED1	Operating Curve Type		

StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i_ED1	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev1_ING_SP	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv_ED1	Type of Reset Curve		
RsDlTmms	ABBIED600_Rev1_ING_SP	Reset Delay Time		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	REx620 MICS:2015>IEC 61850-7-4:2003
NumPh	ABBIED600_Rev3_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrValMult	ABBIED600_Rev3_ASG_SG_i_ED1_e	Multiplier for scaling the start value	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
AMeasMod	ABBIED600_Rev3_ENG_SP_MeasMod_e	Measuring mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.101 LN: PH3LPTOC1 Name: PTOC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG_ED1	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i_ED1	Time Dial Multiplier		

MinOp-Tmms	ABBIED600_Rev1_ING_SP	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate Delay Time		
TypRsCrv	AB-BIED600_Rev3_ENG_SG_TypRsCrv_ED1	Type of Reset Curve		
RsDlTmms	ABBIED600_Rev1_ING_SP	Reset Delay Time		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	REx620 MICS:2015>IEC 61850-7-4:2003
NumPh	ABBIED600_Rev3_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrValMult	ABBIED600_Rev3_ASG_SG_i_ED1_e	Multiplier for scaling the start value	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
AMeasMod	ABBIED600_Rev3_ENG_SP_MeasMod_e	Measuring mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.102 LN: PH3LPTOC2 Name: PTOC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OfOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG_ED1	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i_ED1	Time Dial Multiplier		
MinOp-Tmms	ABBIED600_Rev1_ING_SP	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate Delay Time		

TypRsCrv	AB-BIED600_Rev3_ENG_SG_TypRsCrv_ED1	Type of Reset Curve		
RsDlTmms	ABBIED600_Rev1_ING_SP	Reset Delay Time		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	REx620 MICS:2015>IEC 61850-7-4:2003
NumPh	ABBIED600_Rev3_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrValMult	ABBIED600_Rev3_ASG_SG_i_ED1_e	Multiplier for scaling the start value	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
AMeasMod	ABBIED600_Rev3_ENG_SP_MeasMod_e	Measuring mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.103 LN: PH3IPTOC1 Name: PTOC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OfFOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP	Reset Delay Time		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	REx620 MICS:2015>IEC 61850-7-4:2003
NumPh	AB-BIED600_Rev3_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	REx620 MICS:2015>IEC 61850-7-4:2003

StrValMult	ABBIED600_Rev3_ASG_SG_i_ED1_e	Multiplier for scaling the start value	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	AB-BIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.104 LN: DPH3HPTOC1 Name: PTOC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OfFOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG_ED1	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i_ED1	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev1_ING_SP	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate Delay Time		
TypRsCrv	AB-BIED600_Rev3_ENG_SG_TypRsCrv_ED1	Selection of reset curve type		
RsDlTmms	ABBIED600_Rev1_ING_SP	Reset Delay Time		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod_ED1	Directional Mode		
Blk	ABBIED600_Rev1_SPS	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
InEnaMult	ABBIED600_Rev1_SPS_e	Enables current multiplier	E	REx620 MICS:2015>IEC 61850-7-4:2003
NumPh	ABBIED600_Rev3_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrValMult	ABBIED600_Rev3_ASG_SG_i_ED1_e	Multiplier for scaling the start value	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003

AMeasMod	ABBIED600_Rev3_ENG_SP_MeasMod_e	Selects used measurement mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
AllwNonDir	ABBIED600_Rev1_SPG_SP_e	Allows prot activation as non-dir when dir info is invalid	E	REx620 MICS:2015>IEC 61850-7-4:2003
NonDir	ABBIED600_Rev1_SPS_e	Forces protection to non-directional	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.105 LN: DPH3HPTOC2 Name: PTOC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG_ED1	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i_ED1	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev1_ING_SP	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv_ED1	Selection of reset curve type		
RsDlTmms	ABBIED600_Rev1_ING_SP	Reset Delay Time		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod_ED1	Directional Mode		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
InEnaMult	ABBIED600_Rev1_SPS_e	Enables current multiplier	E	REx620 MICS:2015>IEC 61850-7-4:2003
NumPh	ABBIED600_Rev3_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	REx620 MICS:2015>IEC 61850-7-4:2003

StrValMult	ABBIED600_Rev3_ASG_SG_i_ED1_e	Multiplier for scaling the start value	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
AMeasMod	ABBIED600_Rev3_ENG_SP_MeasMod_e	Selects used measurement mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
AllwNonDir	ABBIED600_Rev1_SPG_SP_e	Allows prot activation as non-dir when dir info is invalid	E	REx620 MICS:2015>IEC 61850-7-4:2003
NonDir	ABBIED600_Rev1_SPS_e	Forces protection to non-directional	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.106 LN: DPH3LPTOC1 Name: PTOC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG_ED1	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i_ED1	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev1_ING_SP	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv_ED1	Type of Reset Curve		
RsDlTmms	ABBIED600_Rev1_ING_SP	Reset Delay Time		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod_ED1	Directional Mode		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003

InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	REx620 MICS:2015>IEC 61850-7-4:2003
NumPh	ABBIED600_Rev3_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrValMult	ABBIED600_Rev3_ASG_SG_i_ED1_e	Multiplier for scaling the start value	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
AMeasMod	ABBIED600_Rev3_ENG_SP_MeasMod_e	Measuring mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
AllwNonDir	ABBIED600_Rev1_SPG_SP_e	Allows prot activation as non-dir when dir info is invalid	E	REx620 MICS:2015>IEC 61850-7-4:2003
NonDir	ABBIED600_Rev1_SPS_e	Forces protection to non-directional	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.107 LN: DPH3LPTOC2 Name: PTOC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG_ED1	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i_ED1	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev1_ING_SP	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv_ED1	Type of Reset Curve		
RsDlTmms	ABBIED600_Rev1_ING_SP	Reset Delay Time		

DirMod	ABBIED600_Rev3_ENG_SG_DirMod_ED1	Directional Mode		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	REx620 MICS:2015>IEC 61850-7-4:2003
NumPh	ABBIED600_Rev3_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrValMult	ABBIED600_Rev3_ASG_SG_i_ED1_e	Multiplier for scaling the start value	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
AMeasMod	ABBIED600_Rev3_ENG_SP_MeasMod_e	Measuring mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
AllwNonDir	ABBIED600_Rev1_SPG_SP_e	Allows prot activation as non-dir when dir info is invalid	E	REx620 MICS:2015>IEC 61850-7-4:2003
NonDir	ABBIED600_Rev1_SPS_e	Forces protection to non-directional	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.108 LN: DARREC1 Name: RREC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
OpCntRs	ABBIED600_Rev1_INC_simple_int_e	Resetable operation counter (all shots)		status-only
RecCyc	ABBIED600_Rev1_INS	Actual reclose cycle (number between 1 and UseCyc)		
OpCls	ABBIED600_Rev1_ACT_threephase	Operate (close command to XCBR)		

AutoRecSt	ABBIED600_Rev3_INS_Auto-RecSt_ED1	Auto Reclosing Status		
Rec1Tmms1	ABBIED600_Rev1_ING_SP	First reclose time		
Rec1Tmms2	ABBIED600_Rev1_ING_SP	Second reclose time		
Rec1Tmms3	ABBIED600_Rev1_ING_SP	Third reclose time		
Rec1Tmms4	ABBIED600_Rev1_ING_SP	Fourth reclose time		
Rec1Tmms5	ABBIED600_Rev1_ING_SP	Fifth reclose time		
Rec1Tmms6	ABBIED600_Rev1_ING_SP	Sixth reclose time		
Rec1Tmms7	ABBIED600_Rev1_ING_SP	Seventh reclose time		
Rec3Tmms1	ABBIED600_Rev1_ING_SP	First reclose time		
Rec3Tmms2	ABBIED600_Rev1_ING_SP	Second reclose time		
Rec3Tmms3	ABBIED600_Rev1_ING_SP	Third reclose time		
Rec3Tmms4	ABBIED600_Rev1_ING_SP	Fourth reclose time		
Rec3Tmms5	ABBIED600_Rev1_ING_SP	Fifth reclose time		
Rec3Tmms6	ABBIED600_Rev1_ING_SP	Sixth reclose time		
Rec3Tmms7	ABBIED600_Rev1_ING_SP	Seventh reclose time		
RclTmms	ABBIED600_Rev1_ING_SP	Reclaim time		
OpOpn	AB-BIED600_Rev1_ACT_threephase_e	Operate (open command to XCBR)		
BlkRec	ABBIED600_Rev2_SPC_control_e	Block reclose		status-only,direct-with-normal-security
RecCnt1	ABBIED600_Rev1_INS_e	Operation counter (1st shot)	E	REx620 MICS:2015>IEC 61850-7-4:2003
RecCnt2	ABBIED600_Rev1_INS_e	Operation counter (2nd shot)	E	REx620 MICS:2015>IEC 61850-7-4:2003
RecCnt3	ABBIED600_Rev1_INS_e	Operation counter (3rd shot)	E	REx620 MICS:2015>IEC 61850-7-4:2003
RecCnt4	ABBIED600_Rev1_INS_e	Operation counter (4th shot)	E	REx620 MICS:2015>IEC 61850-7-4:2003
RecCnt5	ABBIED600_Rev1_INS_e	Operation counter (5th shot)	E	REx620 MICS:2015>IEC 61850-7-4:2003
AutoIni	ABBIED600_Rev1_ING_SP_1_e	Auto init	E	REx620 MICS:2015>IEC 61850-7-4:2003
RecOp	ABBIED600_Rev2_ENG_SP_recOp_e	Reclosing operation	E	REx620 MICS:2015>IEC 61850-7-4:2003
ManClsMod	ABBIED600_Rev1_SPG_SP_e	Manual close mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
WtClsTmms	ABBIED600_Rev1_ING_SP_e	Wait close time	E	REx620 MICS:2015>IEC 61850-7-4:2003
MaxWtT-mms	ABBIED600_Rev1_ING_SP_e	Max wait time	E	REx620 MICS:2015>IEC 61850-7-4:2003

Max-BlkTmms	ABBIED600_Rev1_ING_SP_e	Max Thm block time	E	REx620 MICS:2015>IEC 61850-7-4:2003
CutOutT-mms	ABBIED600_Rev1_ING_SP_e	Cut-out time	E	REx620 MICS:2015>IEC 61850-7-4:2003
DsrTmms1	ABBIED600_Rev1_ING_SP_e	Dsr time shot 1	E	REx620 MICS:2015>IEC 61850-7-4:2003
DsrTmms2	ABBIED600_Rev1_ING_SP_e	Dsr time shot 2	E	REx620 MICS:2015>IEC 61850-7-4:2003
DsrTmms3	ABBIED600_Rev1_ING_SP_e	Dsr time shot 3	E	REx620 MICS:2015>IEC 61850-7-4:2003
DsrTmms4	ABBIED600_Rev1_ING_SP_e	Dsr time shot 4	E	REx620 MICS:2015>IEC 61850-7-4:2003
TermPrio	ABBIED600_Rev2_ENG_SP_term-Prio_e	Terminal priority	E	REx620 MICS:2015>IEC 61850-7-4:2003
SynSet	ABBIED600_Rev1_ING_SP_1_e	Synchronisation set	E	REx620 MICS:2015>IEC 61850-7-4:2003
AutoWtT-mms	ABBIED600_Rev1_ING_SP_e	Auto wait time	E	REx620 MICS:2015>IEC 61850-7-4:2003
AutoLORs	ABBIED600_Rev1_SPG_SP_e	Auto lockout re-set	E	REx620 MICS:2015>IEC 61850-7-4:2003
ProCrdLim	ABBIED600_Rev1_ING_SP_1_e	Protection crd limit	E	REx620 MICS:2015>IEC 61850-7-4:2003
ProCrdMod	ABBIED600_Rev2_ENG_SP_proCrd-Mod_e	Protection crd mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
AutoIniCnd	ABBIED600_Rev2_ENG_SP_autoIn-iCnd_e	Auto initiation cnd	E	REx620 MICS:2015>IEC 61850-7-4:2003
TrLin	ABBIED600_Rev1_ING_SP_1_e	Tripping line	E	REx620 MICS:2015>IEC 61850-7-4:2003
CtlLin	ABBIED600_Rev1_ING_SP_1_e	Control line	E	REx620 MICS:2015>IEC 61850-7-4:2003
EnaShotJmp	ABBIED600_Rev1_SPG_SP_e	Enable shot jump	E	REx620 MICS:2015>IEC 61850-7-4:2003
CBClsPosSt	ABBIED600_Rev1_SPG_SP_e	CB closed Pos status	E	REx620 MICS:2015>IEC 61850-7-4:2003
Ena4DlSOF	ABBIED600_Rev1_SPG_SP_e	Fourth delay in SOTF	E	REx620 MICS:2015>IEC 61850-7-4:2003
IniSigCBB1	ABBIED600_Rev1_ING_SP_1_e	Init signals CBB1	E	REx620 MICS:2015>IEC 61850-7-4:2003
IniSigCBB2	ABBIED600_Rev1_ING_SP_1_e	Init signals CBB2	E	REx620 MICS:2015>IEC 61850-7-4:2003
IniSigCBB3	ABBIED600_Rev1_ING_SP_1_e	Init signals CBB3	E	REx620 MICS:2015>IEC 61850-7-4:2003
IniSigCBB4	ABBIED600_Rev1_ING_SP_1_e	Init signals CBB4	E	REx620 MICS:2015>IEC 61850-7-4:2003
IniSigCBB5	ABBIED600_Rev1_ING_SP_1_e	Init signals CBB5	E	REx620 MICS:2015>IEC 61850-7-4:2003
IniSigCBB6	ABBIED600_Rev1_ING_SP_1_e	Init signals CBB6	E	REx620 MICS:2015>IEC 61850-7-4:2003

IniSigCBB7	ABBIED600_Rev1_ING_SP_1_e	Init signals CBB7	E	REx620 MICS:2015>IEC 61850-7-4:2003
BlkSigCBB1	ABBIED600_Rev1_ING_SP_1_e	Blk signals CBB1	E	REx620 MICS:2015>IEC 61850-7-4:2003
BlkSigCBB2	ABBIED600_Rev1_ING_SP_1_e	Blk signals CBB2	E	REx620 MICS:2015>IEC 61850-7-4:2003
BlkSigCBB3	ABBIED600_Rev1_ING_SP_1_e	Blk signals CBB3	E	REx620 MICS:2015>IEC 61850-7-4:2003
BlkSigCBB4	ABBIED600_Rev1_ING_SP_1_e	Blk signals CBB4	E	REx620 MICS:2015>IEC 61850-7-4:2003
BlkSigCBB5	ABBIED600_Rev1_ING_SP_1_e	Blk signals CBB5	E	REx620 MICS:2015>IEC 61850-7-4:2003
BlkSigCBB6	ABBIED600_Rev1_ING_SP_1_e	Blk signals CBB6	E	REx620 MICS:2015>IEC 61850-7-4:2003
BlkSigCBB7	ABBIED600_Rev1_ING_SP_1_e	Blk signals CBB7	E	REx620 MICS:2015>IEC 61850-7-4:2003
ShotNum1	ABBIED600_Rev1_ING_SP_1_e	Shot number CBB1	E	REx620 MICS:2015>IEC 61850-7-4:2003
ShotNum2	ABBIED600_Rev1_ING_SP_1_e	Shot number CBB2	E	REx620 MICS:2015>IEC 61850-7-4:2003
ShotNum3	ABBIED600_Rev1_ING_SP_1_e	Shot number CBB3	E	REx620 MICS:2015>IEC 61850-7-4:2003
ShotNum4	ABBIED600_Rev1_ING_SP_1_e	Shot number CBB4	E	REx620 MICS:2015>IEC 61850-7-4:2003
ShotNum5	ABBIED600_Rev1_ING_SP_1_e	Shot number CBB5	E	REx620 MICS:2015>IEC 61850-7-4:2003
ShotNum6	ABBIED600_Rev1_ING_SP_1_e	Shot number CBB6	E	REx620 MICS:2015>IEC 61850-7-4:2003
ShotNum7	ABBIED600_Rev1_ING_SP_1_e	Shot number CBB7	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str2Tmms1	ABBIED600_Rev1_ING_SP_e	Str 2 delay shot 1	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str2Tmms2	ABBIED600_Rev1_ING_SP_e	Str 2 delay shot 2	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str2Tmms3	ABBIED600_Rev1_ING_SP_e	Str 2 delay shot 3	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str2Tmms4	ABBIED600_Rev1_ING_SP_e	Str 2 delay shot 4	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str3Tmms1	ABBIED600_Rev1_ING_SP_e	Str 3 delay shot 1	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str3Tmms2	ABBIED600_Rev1_ING_SP_e	Str 3 delay shot 2	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str3Tmms3	ABBIED600_Rev1_ING_SP_e	Str 3 delay shot 3	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str3Tmms4	ABBIED600_Rev1_ING_SP_e	Str 3 delay shot 4	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str4Tmms1	ABBIED600_Rev1_ING_SP_e	Str 4 delay shot 1	E	REx620 MICS:2015>IEC 61850-7-4:2003

Str4Tmms2	ABBIED600_Rev1_ING_SP_e	Str 4 delay shot 2	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str4Tmms3	ABBIED600_Rev1_ING_SP_e	Str 4 delay shot 3	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str4Tmms4	ABBIED600_Rev1_ING_SP_e	Str 4 delay shot 4	E	REx620 MICS:2015>IEC 61850-7-4:2003
FrqCntLim	ABBIED600_Rev1_ING_SP_1_e	Frq Op counter limit	E	REx620 MICS:2015>IEC 61850-7-4:2003
FrqCntTmm	ABBIED600_Rev1_ING_SP_1_e	Frq Op counter time	E	REx620 MICS:2015>IEC 61850-7-4:2003
FrqRcvTmm	ABBIED600_Rev1_ING_SP_1_e	Frq Op recovery time	E	REx620 MICS:2015>IEC 61850-7-4:2003
PlsTmms	ABBIED600_Rev1_ING_SP_e	Close pulse time		
MaxTrTmms	ABBIED600_Rev1_ING_SP_e	Max trip time	E	REx620 MICS:2015>IEC 61850-7-4:2003
InInhRec	ABBIED600_Rev1_SPS_e	Inhibit reclose (status)	E	REx620 MICS:2015>IEC 61850-7-4:2003
InBlkThm	ABBIED600_Rev1_SPS_e	Thermal block (status)	E	REx620 MICS:2015>IEC 61850-7-4:2003
LO	ABBIED600_Rev1_SPS_e	Lockout status	E	REx620 MICS:2015>IEC 61850-7-4:2003
RdyRec	ABBIED600_Rev1_SPS_e	Ready reclose status	E	REx620 MICS:2015>IEC 61850-7-4:2003
ActRec	ABBIED600_Rev1_SPS_e	Active reclose status	E	REx620 MICS:2015>IEC 61850-7-4:2003
SucRec	ABBIED600_Rev1_SPS_e	Successful re-close status	E	REx620 MICS:2015>IEC 61850-7-4:2003
UnsRec	ABBIED600_Rev1_SPS_e	Unsuccessful re-close status	E	REx620 MICS:2015>IEC 61850-7-4:2003
PrgRec	ABBIED600_Rev1_SPS_e	In progress status	E	REx620 MICS:2015>IEC 61850-7-4:2003
UnsCBCls	ABBIED600_Rev1_SPS_e	Unsuccessful CB closing status	E	REx620 MICS:2015>IEC 61850-7-4:2003
WtMstr	ABBIED600_Rev1_SPS_e	Master signal to follower	E	REx620 MICS:2015>IEC 61850-7-4:2003
PrgRec1	ABBIED600_Rev1_SPS_e	In progress 1st reclose	E	REx620 MICS:2015>IEC 61850-7-4:2003
PrgRec2	ABBIED600_Rev1_SPS_e	In progress 2nd reclose	E	REx620 MICS:2015>IEC 61850-7-4:2003
PrgRec3	ABBIED600_Rev1_SPS_e	In progress 3rd reclose	E	REx620 MICS:2015>IEC 61850-7-4:2003
PrgRec4	ABBIED600_Rev1_SPS_e	In progress 4th reclose	E	REx620 MICS:2015>IEC 61850-7-4:2003
PrgRec5	ABBIED600_Rev1_SPS_e	In progress 5th reclose	E	REx620 MICS:2015>IEC 61850-7-4:2003
PrgDsr	ABBIED600_Rev1_SPS_e	Discrimination time in progress	E	REx620 MICS:2015>IEC 61850-7-4:2003
PrgCutOut	ABBIED600_Rev1_SPS_e	Cutout time in progress	E	REx620 MICS:2015>IEC 61850-7-4:2003

FrqOpCnt	ABBIED600_Rev1_INS_e	Frequent operation counter	E	REx620 MICS:2015>IEC 61850-7-4:2003
FrqOpAlm	ABBIED600_Rev1_SPS_e	Frequent operation counter alarm	E	REx620 MICS:2015>IEC 61850-7-4:2003
RecRs	ABBIED600_Rev2_SPC_control_e	DARREC1 reset	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
CntRs	ABBIED600_Rev2_SPC_control_e	DARREC1 counters	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
DsaCnt	ABBIED600_Rev2_SPC_control_e	Signal for counter disabling	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
RclTmStr	ABBIED600_Rev1_SPS_e	Reclaim time started	E	REx620 MICS:2015>IEC 61850-7-4:2003
ProCrd	ABBIED600_Rev1_SPS_e	Protection coordination	E	REx620 MICS:2015>IEC 61850-7-4:2003
CBManCls	ABBIED600_Rev1_SPS_e	CB manually closed	E	REx620 MICS:2015>IEC 61850-7-4:2003
AutoRecOn	ABBIED600_Rev1_SPS_e	AR switched On	E	REx620 MICS:2015>IEC 61850-7-4:2003
ShotPntr	ABBIED600_Rev1_INS_e	Shot pointer value	E	REx620 MICS:2015>IEC 61850-7-4:2003
InRecOn	ABBIED600_Rev1_SPS_e	AR on/off control signal status	E	REx620 MICS:2015>IEC 61850-7-4:2003
InBlkRclTm	ABBIED600_Rev1_SPS_e	Block reclaim time	E	REx620 MICS:2015>IEC 61850-7-4:2003
InCBPos	ABBIED600_Rev1_SPS_e	CB position input	E	REx620 MICS:2015>IEC 61850-7-4:2003
InCBRdy	ABBIED600_Rev1_SPS_e	CB ready for reclosing	E	REx620 MICS:2015>IEC 61850-7-4:2003
InSynChk	ABBIED600_Rev1_SPS_e	Synchro check fulfilled	E	REx620 MICS:2015>IEC 61850-7-4:2003
InIncrPntr	ABBIED600_Rev1_SPS_e	Shot pointer increment by one	E	REx620 MICS:2015>IEC 61850-7-4:2003
InIni1	ABBIED600_Rev1_SPS_e	No 1 operate signal	E	REx620 MICS:2015>IEC 61850-7-4:2003
InIni2	ABBIED600_Rev1_SPS_e	No 2 operate signal	E	REx620 MICS:2015>IEC 61850-7-4:2003
InIni3	ABBIED600_Rev1_SPS_e	No 3 operate signal	E	REx620 MICS:2015>IEC 61850-7-4:2003
InIni4	ABBIED600_Rev1_SPS_e	No 4 operate signal	E	REx620 MICS:2015>IEC 61850-7-4:2003
InIni5	ABBIED600_Rev1_SPS_e	No 5 operate signal	E	REx620 MICS:2015>IEC 61850-7-4:2003

InIni6	ABBIED600_Rev1_SPS_e	No 6 operate signal	E	REx620 MICS:2015>IEC 61850-7-4:2003
InDlIni2	ABBIED600_Rev1_SPS_e	No 2 start signal	E	REx620 MICS:2015>IEC 61850-7-4:2003
InDlIni3	ABBIED600_Rev1_SPS_e	No 3 start signal	E	REx620 MICS:2015>IEC 61850-7-4:2003
InDlIni4	ABBIED600_Rev1_SPS_e	No 4 start signal	E	REx620 MICS:2015>IEC 61850-7-4:2003
RclTmEla	ABBIED600_Rev1_SPS_e	Reclaim time elapsed	E	REx620 MICS:2015>IEC 61850-7-4:2003
InBlkRecTm	ABBIED600_Rev1_SPS_e	Blocks and resets dead time	E	REx620 MICS:2015>IEC 61850-7-4:2003
SOF	ABBIED600_Rev1_SPS_e	Switch on the fault	E	REx620 MICS:2015>IEC 61850-7-4:2003
TestCtl	ABBIED600_Rev3_INC_TestCtl_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.109 LN: DARREC2 Name: RREC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
OpCntRs	ABBIED600_Rev1_INC_simple_int_e	Resetable operation counter (all shots)		status-only
RecCyc	ABBIED600_Rev1_INS	Actual reclose cycle (number between 1 and UseCyc)		
OpCls	ABBIED600_Rev1_ACT_threephase	Operate (close command to XCBR)		
AutoRecSt	ABBIED600_Rev3_INS_AutoRecSt_ED1	Auto Reclosing Status		
Rec1Tmms1	ABBIED600_Rev1_ING_SP	First reclose time		
Rec1Tmms2	ABBIED600_Rev1_ING_SP	Second reclose time		
Rec1Tmms3	ABBIED600_Rev1_ING_SP	Third reclose time		
Rec1Tmms4	ABBIED600_Rev1_ING_SP	Fourth reclose time		
Rec1Tmms5	ABBIED600_Rev1_ING_SP	Fifth reclose time		
Rec1Tmms6	ABBIED600_Rev1_ING_SP	Sixth reclose time		
Rec1Tmms7	ABBIED600_Rev1_ING_SP	Seventh reclose time		

Rec3Tmms1	ABBIED600_Rev1_ING_SP	First reclose time		
Rec3Tmms2	ABBIED600_Rev1_ING_SP	Second reclose time		
Rec3Tmms3	ABBIED600_Rev1_ING_SP	Third reclose time		
Rec3Tmms4	ABBIED600_Rev1_ING_SP	Fourth reclose time		
Rec3Tmms5	ABBIED600_Rev1_ING_SP	Fifth reclose time		
Rec3Tmms6	ABBIED600_Rev1_ING_SP	Sixth reclose time		
Rec3Tmms7	ABBIED600_Rev1_ING_SP	Seventh reclose time		
RclTmms	ABBIED600_Rev1_ING_SP	Reclaim time		
OpOpn	AB-BIED600_Rev1_ACT_threephase_e	Operate (open command to XCBR)		
BlkRec	ABBIED600_Rev2_SPC_control_e	Block reclose		status-only,direct-with-normal-security
RecCnt1	ABBIED600_Rev1_INS_e	Operation counter (1st shot)	E	REx620 MICS:2015>IEC 61850-7-4:2003
RecCnt2	ABBIED600_Rev1_INS_e	Operation counter (2nd shot)	E	REx620 MICS:2015>IEC 61850-7-4:2003
RecCnt3	ABBIED600_Rev1_INS_e	Operation counter (3rd shot)	E	REx620 MICS:2015>IEC 61850-7-4:2003
RecCnt4	ABBIED600_Rev1_INS_e	Operation counter (4th shot)	E	REx620 MICS:2015>IEC 61850-7-4:2003
RecCnt5	ABBIED600_Rev1_INS_e	Operation counter (5th shot)	E	REx620 MICS:2015>IEC 61850-7-4:2003
AutoIni	ABBIED600_Rev1_ING_SP_1_e	Auto init	E	REx620 MICS:2015>IEC 61850-7-4:2003
RecOp	ABBIED600_Rev2_ENG_SP_recOp_e	Reclosing operation	E	REx620 MICS:2015>IEC 61850-7-4:2003
ManClsMod	ABBIED600_Rev1_SPG_SP_e	Manual close mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
WtClsTmms	ABBIED600_Rev1_ING_SP_e	Wait close time	E	REx620 MICS:2015>IEC 61850-7-4:2003
MaxWtT-mms	ABBIED600_Rev1_ING_SP_e	Max wait time	E	REx620 MICS:2015>IEC 61850-7-4:2003
Max-BlkTmms	ABBIED600_Rev1_ING_SP_e	Max Thm block time	E	REx620 MICS:2015>IEC 61850-7-4:2003
CutOutT-mms	ABBIED600_Rev1_ING_SP_e	Cut-out time	E	REx620 MICS:2015>IEC 61850-7-4:2003
DsrTmms1	ABBIED600_Rev1_ING_SP_e	Dsr time shot 1	E	REx620 MICS:2015>IEC 61850-7-4:2003
DsrTmms2	ABBIED600_Rev1_ING_SP_e	Dsr time shot 2	E	REx620 MICS:2015>IEC 61850-7-4:2003
DsrTmms3	ABBIED600_Rev1_ING_SP_e	Dsr time shot 3	E	REx620 MICS:2015>IEC 61850-7-4:2003
DsrTmms4	ABBIED600_Rev1_ING_SP_e	Dsr time shot 4	E	REx620 MICS:2015>IEC 61850-7-4:2003

TermPrio	ABBIED600_Rev2_ENG_SP_term-Prio_e	Terminal priority	E	REx620 MICS:2015>IEC 61850-7-4:2003
SynSet	ABBIED600_Rev1_ING_SP_1_e	Synchronisation set	E	REx620 MICS:2015>IEC 61850-7-4:2003
AutoWtT-mms	ABBIED600_Rev1_ING_SP_e	Auto wait time	E	REx620 MICS:2015>IEC 61850-7-4:2003
AutoLORs	ABBIED600_Rev1_SPG_SP_e	Auto lockout re-set	E	REx620 MICS:2015>IEC 61850-7-4:2003
ProCrdLim	ABBIED600_Rev1_ING_SP_1_e	Protection crd limit	E	REx620 MICS:2015>IEC 61850-7-4:2003
ProCrdMod	ABBIED600_Rev2_ENG_SP_proCrd-Mod_e	Protection crd mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
AutoIniCnd	ABBIED600_Rev2_ENG_SP_autoIn-iCnd_e	Auto initiation cnd	E	REx620 MICS:2015>IEC 61850-7-4:2003
TrLin	ABBIED600_Rev1_ING_SP_1_e	Tripping line	E	REx620 MICS:2015>IEC 61850-7-4:2003
CtlLin	ABBIED600_Rev1_ING_SP_1_e	Control line	E	REx620 MICS:2015>IEC 61850-7-4:2003
EnaShotJmp	ABBIED600_Rev1_SPG_SP_e	Enable shot jump	E	REx620 MICS:2015>IEC 61850-7-4:2003
CBClsPosSt	ABBIED600_Rev1_SPG_SP_e	CB closed Pos status	E	REx620 MICS:2015>IEC 61850-7-4:2003
Ena4DlSOF	ABBIED600_Rev1_SPG_SP_e	Fourth delay in SOTF	E	REx620 MICS:2015>IEC 61850-7-4:2003
IniSigCBB1	ABBIED600_Rev1_ING_SP_1_e	Init signals CBB1	E	REx620 MICS:2015>IEC 61850-7-4:2003
IniSigCBB2	ABBIED600_Rev1_ING_SP_1_e	Init signals CBB2	E	REx620 MICS:2015>IEC 61850-7-4:2003
IniSigCBB3	ABBIED600_Rev1_ING_SP_1_e	Init signals CBB3	E	REx620 MICS:2015>IEC 61850-7-4:2003
IniSigCBB4	ABBIED600_Rev1_ING_SP_1_e	Init signals CBB4	E	REx620 MICS:2015>IEC 61850-7-4:2003
IniSigCBB5	ABBIED600_Rev1_ING_SP_1_e	Init signals CBB5	E	REx620 MICS:2015>IEC 61850-7-4:2003
IniSigCBB6	ABBIED600_Rev1_ING_SP_1_e	Init signals CBB6	E	REx620 MICS:2015>IEC 61850-7-4:2003
IniSigCBB7	ABBIED600_Rev1_ING_SP_1_e	Init signals CBB7	E	REx620 MICS:2015>IEC 61850-7-4:2003
BlkSigCBB1	ABBIED600_Rev1_ING_SP_1_e	Blk signals CBB1	E	REx620 MICS:2015>IEC 61850-7-4:2003
BlkSigCBB2	ABBIED600_Rev1_ING_SP_1_e	Blk signals CBB2	E	REx620 MICS:2015>IEC 61850-7-4:2003
BlkSigCBB3	ABBIED600_Rev1_ING_SP_1_e	Blk signals CBB3	E	REx620 MICS:2015>IEC 61850-7-4:2003
BlkSigCBB4	ABBIED600_Rev1_ING_SP_1_e	Blk signals CBB4	E	REx620 MICS:2015>IEC 61850-7-4:2003
BlkSigCBB5	ABBIED600_Rev1_ING_SP_1_e	Blk signals CBB5	E	REx620 MICS:2015>IEC 61850-7-4:2003

BlkSigCBB6	ABBIED600_Rev1_ING_SP_1_e	Blk signals CBB6	E	REx620 MICS:2015>IEC 61850-7-4:2003
BlkSigCBB7	ABBIED600_Rev1_ING_SP_1_e	Blk signals CBB7	E	REx620 MICS:2015>IEC 61850-7-4:2003
ShotNum1	ABBIED600_Rev1_ING_SP_1_e	Shot number CBB1	E	REx620 MICS:2015>IEC 61850-7-4:2003
ShotNum2	ABBIED600_Rev1_ING_SP_1_e	Shot number CBB2	E	REx620 MICS:2015>IEC 61850-7-4:2003
ShotNum3	ABBIED600_Rev1_ING_SP_1_e	Shot number CBB3	E	REx620 MICS:2015>IEC 61850-7-4:2003
ShotNum4	ABBIED600_Rev1_ING_SP_1_e	Shot number CBB4	E	REx620 MICS:2015>IEC 61850-7-4:2003
ShotNum5	ABBIED600_Rev1_ING_SP_1_e	Shot number CBB5	E	REx620 MICS:2015>IEC 61850-7-4:2003
ShotNum6	ABBIED600_Rev1_ING_SP_1_e	Shot number CBB6	E	REx620 MICS:2015>IEC 61850-7-4:2003
ShotNum7	ABBIED600_Rev1_ING_SP_1_e	Shot number CBB7	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str2Tmms1	ABBIED600_Rev1_ING_SP_e	Str 2 delay shot 1	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str2Tmms2	ABBIED600_Rev1_ING_SP_e	Str 2 delay shot 2	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str2Tmms3	ABBIED600_Rev1_ING_SP_e	Str 2 delay shot 3	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str2Tmms4	ABBIED600_Rev1_ING_SP_e	Str 2 delay shot 4	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str3Tmms1	ABBIED600_Rev1_ING_SP_e	Str 3 delay shot 1	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str3Tmms2	ABBIED600_Rev1_ING_SP_e	Str 3 delay shot 2	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str3Tmms3	ABBIED600_Rev1_ING_SP_e	Str 3 delay shot 3	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str3Tmms4	ABBIED600_Rev1_ING_SP_e	Str 3 delay shot 4	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str4Tmms1	ABBIED600_Rev1_ING_SP_e	Str 4 delay shot 1	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str4Tmms2	ABBIED600_Rev1_ING_SP_e	Str 4 delay shot 2	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str4Tmms3	ABBIED600_Rev1_ING_SP_e	Str 4 delay shot 3	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str4Tmms4	ABBIED600_Rev1_ING_SP_e	Str 4 delay shot 4	E	REx620 MICS:2015>IEC 61850-7-4:2003
FrqCntLim	ABBIED600_Rev1_ING_SP_1_e	Frq Op counter limit	E	REx620 MICS:2015>IEC 61850-7-4:2003
FrqCntTmm	ABBIED600_Rev1_ING_SP_1_e	Frq Op counter time	E	REx620 MICS:2015>IEC 61850-7-4:2003
FrqRcvTmm	ABBIED600_Rev1_ING_SP_1_e	Frq Op recovery time	E	REx620 MICS:2015>IEC 61850-7-4:2003
PlsTmms	ABBIED600_Rev1_ING_SP_e	Close pulse time		

MaxTrTmms	ABBIED600_Rev1_ING_SP_e	Max trip time	E	REx620 MICS:2015>IEC 61850-7-4:2003
InInhRec	ABBIED600_Rev1_SPS_e	Inhibit reclose (status)	E	REx620 MICS:2015>IEC 61850-7-4:2003
InBlkThm	ABBIED600_Rev1_SPS_e	Thermal block (status)	E	REx620 MICS:2015>IEC 61850-7-4:2003
LO	ABBIED600_Rev1_SPS_e	Lockout status	E	REx620 MICS:2015>IEC 61850-7-4:2003
RdyRec	ABBIED600_Rev1_SPS_e	Ready reclose status	E	REx620 MICS:2015>IEC 61850-7-4:2003
ActRec	ABBIED600_Rev1_SPS_e	Active reclose status	E	REx620 MICS:2015>IEC 61850-7-4:2003
SucRec	ABBIED600_Rev1_SPS_e	Successful re-close status	E	REx620 MICS:2015>IEC 61850-7-4:2003
UnsRec	ABBIED600_Rev1_SPS_e	Unsuccessful re-close status	E	REx620 MICS:2015>IEC 61850-7-4:2003
PrgRec	ABBIED600_Rev1_SPS_e	In progress status	E	REx620 MICS:2015>IEC 61850-7-4:2003
UnsCBCls	ABBIED600_Rev1_SPS_e	Unsuccessful CB closing status	E	REx620 MICS:2015>IEC 61850-7-4:2003
WtMstr	ABBIED600_Rev1_SPS_e	Master signal to follower	E	REx620 MICS:2015>IEC 61850-7-4:2003
PrgRec1	ABBIED600_Rev1_SPS_e	In progress 1st reclose	E	REx620 MICS:2015>IEC 61850-7-4:2003
PrgRec2	ABBIED600_Rev1_SPS_e	In progress 2nd reclose	E	REx620 MICS:2015>IEC 61850-7-4:2003
PrgRec3	ABBIED600_Rev1_SPS_e	In progress 3rd reclose	E	REx620 MICS:2015>IEC 61850-7-4:2003
PrgRec4	ABBIED600_Rev1_SPS_e	In progress 4th reclose	E	REx620 MICS:2015>IEC 61850-7-4:2003
PrgRec5	ABBIED600_Rev1_SPS_e	In progress 5th reclose	E	REx620 MICS:2015>IEC 61850-7-4:2003
PrgDsr	ABBIED600_Rev1_SPS_e	Discrimination time in progress	E	REx620 MICS:2015>IEC 61850-7-4:2003
PrgCutOut	ABBIED600_Rev1_SPS_e	Cutout time in progress	E	REx620 MICS:2015>IEC 61850-7-4:2003
FrqOpCnt	ABBIED600_Rev1_INS_e	Frequent opera-tion counter	E	REx620 MICS:2015>IEC 61850-7-4:2003
FrqOpAlm	ABBIED600_Rev1_SPS_e	Frequent opera-tion counter alarm	E	REx620 MICS:2015>IEC 61850-7-4:2003
RecRs	ABBIED600_Rev2_SPC_control_e	DARREC2 reset	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-secu-rity
CntRs	ABBIED600_Rev2_SPC_control_e	DARREC2 coun-ters	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-secu-rity

DsaCnt	ABBIED600_Rev2_SPC_control_e	Signal for counter disabling	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
RclTmStr	ABBIED600_Rev1_SPS_e	Reclaim time started	E	REx620 MICS:2015>IEC 61850-7-4:2003
ProCrd	ABBIED600_Rev1_SPS_e	Protection coordination	E	REx620 MICS:2015>IEC 61850-7-4:2003
CBManCls	ABBIED600_Rev1_SPS_e	CB manually closed	E	REx620 MICS:2015>IEC 61850-7-4:2003
AutoRecOn	ABBIED600_Rev1_SPS_e	AR switched On	E	REx620 MICS:2015>IEC 61850-7-4:2003
ShotPntr	ABBIED600_Rev1_INS_e	Shot pointer value	E	REx620 MICS:2015>IEC 61850-7-4:2003
InRecOn	ABBIED600_Rev1_SPS_e	AR on/off control signal status	E	REx620 MICS:2015>IEC 61850-7-4:2003
InBlkRclTm	ABBIED600_Rev1_SPS_e	Block reclaim time	E	REx620 MICS:2015>IEC 61850-7-4:2003
InCBPos	ABBIED600_Rev1_SPS_e	CB position input	E	REx620 MICS:2015>IEC 61850-7-4:2003
InCBRdy	ABBIED600_Rev1_SPS_e	CB ready for reclosing	E	REx620 MICS:2015>IEC 61850-7-4:2003
InSynChk	ABBIED600_Rev1_SPS_e	Synchro check fulfilled	E	REx620 MICS:2015>IEC 61850-7-4:2003
InIncrPntr	ABBIED600_Rev1_SPS_e	Shot pointer increment by one	E	REx620 MICS:2015>IEC 61850-7-4:2003
InIni1	ABBIED600_Rev1_SPS_e	No 1 operate signal	E	REx620 MICS:2015>IEC 61850-7-4:2003
InIni2	ABBIED600_Rev1_SPS_e	No 2 operate signal	E	REx620 MICS:2015>IEC 61850-7-4:2003
InIni3	ABBIED600_Rev1_SPS_e	No 3 operate signal	E	REx620 MICS:2015>IEC 61850-7-4:2003
InIni4	ABBIED600_Rev1_SPS_e	No 4 operate signal	E	REx620 MICS:2015>IEC 61850-7-4:2003
InIni5	ABBIED600_Rev1_SPS_e	No 5 operate signal	E	REx620 MICS:2015>IEC 61850-7-4:2003
InIni6	ABBIED600_Rev1_SPS_e	No 6 operate signal	E	REx620 MICS:2015>IEC 61850-7-4:2003
InDlIni2	ABBIED600_Rev1_SPS_e	No 2 start signal	E	REx620 MICS:2015>IEC 61850-7-4:2003
InDlIni3	ABBIED600_Rev1_SPS_e	No 3 start signal	E	REx620 MICS:2015>IEC 61850-7-4:2003
InDlIni4	ABBIED600_Rev1_SPS_e	No 4 start signal	E	REx620 MICS:2015>IEC 61850-7-4:2003
RclTmEla	ABBIED600_Rev1_SPS_e	Reclaim time elapsed	E	REx620 MICS:2015>IEC 61850-7-4:2003
InBlkRecTm	ABBIED600_Rev1_SPS_e	Blocks and resets dead time	E	REx620 MICS:2015>IEC 61850-7-4:2003
SOF	ABBIED600_Rev1_SPS_e	Switch on the fault	E	REx620 MICS:2015>IEC 61850-7-4:2003

TestCtl	AB-BIED600_Rev3_INC_TestCtl_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.110 LN: RESCMMXU1 Name: MMXU (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
A	ABBIED600_Rev3_WYE_res_full_i	Residual current		
AMeasMod	ABBIED600_Rev3_ENG_SP_MeasMod_e	Selects used measurement mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	REx620 MICS:2015>IEC 61850-7-4:2003
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	REx620 MICS:2015>IEC 61850-7-4:2003
RcdRs	ABBIED600_Rev2_SPC_control_e	RESCMMXU1 demands	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.111 LN: RCAVMMXU1 Name: MMXU (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
A	ABBIED600_Rev3_WYE_res_simpler_i	Residual current		
ClcMth	ABBIED600_Rev3_ENG_SP_ClcMth	Calculation method of statistical data objects	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClcMod	AB-BIED600_Rev2_ENG_SP_ClcMod	Calculation mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClcSrc	ABBIED600_Rev4_ORG_SP_1	Object reference to source logical node		

6.2.112 LN: RCMAMMXU1 Name: MMXU (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_INC_Mod_On_ED1	Mode		status-only

Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
A	ABBIED600_Rev3_WYE_res_sim-pler_i	residual current		
ClcMth	ABBIED600_Rev3_ENG_SP_ClcMth	Calculation method of statistical data objects	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClcMod	AB-BIED600_Rev2_ENG_SP_ClcMod	Calculation mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClcSrc	ABBIED600_Rev4_ORG_SP_1	Object reference to source logical node		

6.2.113 LN: RCMIMMXU1 Name: MMXU (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
A	ABBIED600_Rev3_WYE_res_sim-pler_i	residual current		
ClcMth	ABBIED600_Rev3_ENG_SP_ClcMth	Calculation method of statistical data objects	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClcMod	AB-BIED600_Rev2_ENG_SP_ClcMod	Calculation mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClcSrc	ABBIED600_Rev4_ORG_SP_1	Object reference to source logical node		

6.2.114 LN: PHAPTUV1 Name: PTUV (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_Of-fOn_FD_ED1	Mode		status-only,direct-with-nor-mal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmVCrv	ABBIED600_Rev2_CURVE_SG_ED1	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i_ED1	Time Dial Mul-tiplier		
MinOp-Tmms	ABBIED600_Rev1_ING_SP_1	Minimum Op-erate Time		

OpDlT-mms	ABBIED600_Rev1_ING_SG_ED1	Operate Delay Time		
RsDlT-mms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
TypRsCrv	AB-BIED600_Rev3_ENG_SG_TypRsCrv_ED1_e	Type of Reset Curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
BlkVal	ABBIED600_Rev3_ASG_SP_i_e	Voltage block value	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
TestPro	ABBIED600_Rev2_INC_TestPro_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
CrvSatRl	ABBIED600_Rev1_ASG_SP_f_e	Tuning parameter to avoid curve discontinuities	E	REx620 MICS:2015>IEC 61850-7-4:2003
VSel	ABBIED600_Rev3_ENG_SP_VSel_e	Parameter to select phase or phase-to-phase voltages	E	REx620 MICS:2015>IEC 61850-7-4:2003
EnaBlkVal	ABBIED600_Rev1_SPG_SP_e	Enable block value	E	REx620 MICS:2015>IEC 61850-7-4:2003
HysRl	ABBIED600_Rev3_ASG_SP_i_e	Relative hysteresis for operation	E	REx620 MICS:2015>IEC 61850-7-4:2003
TypTmRs	AB-BIED600_Rev2_ENG_SG_TypTmRs_ED1_e	Type of time reset	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.115 LN: PHAPTOV1 Name: PTOV (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmVCrv	ABBIED600_Rev2_CURVE_SG_ED1	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i_ED1	Time Dial Multiplier		

MinOp-Tmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
OpDlT-mms	ABBIED600_Rev1_ING_SG_ED1	Operate Delay Time		
RsDlT-mms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv_ED1_e	Type of Reset Curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
TestPro	ABBIED600_Rev2_INC_TestPro_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
CrvSatRl	ABBIED600_Rev1_ASG_SP_f_e	Tuning parameter to avoid curve discontinuities	E	REx620 MICS:2015>IEC 61850-7-4:2003
VSel	ABBIED600_Rev3_ENG_SP_VSel_e	Parameter to select phase or phase-to-phase voltages	E	REx620 MICS:2015>IEC 61850-7-4:2003
HysRl	ABBIED600_Rev3_ASG_SP_i_e	Relative hysteresis for operation	E	REx620 MICS:2015>IEC 61850-7-4:2003
TypTmRs	ABBIED600_Rev2_ENG_SG_TypTmRs_ED1_e	Type of time reset	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.116 LN: SECRSYN1 Name: RSYN (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Rel	ABBIED600_Rev1_SPS	Release		
VInd	ABBIED600_Rev1_SPS	Voltage Difference Indicator		
AngInd	ABBIED600_Rev1_SPS	Angle Difference Indicator		
HzInd	ABBIED600_Rev1_SPS	Frequency difference Indicator		

SynPrg	ABBIED600_Rev1_SPC_simple	Synchronising in progress		status-only
DifVClc	ABBIED600_Rev3_MV_simple_i	Calculated Difference in Voltage		
DifHzClc	ABBIED600_Rev3_MV_simple_i	Calculated Difference in Frequency		
DifAngClc	ABBIED600_Rev3_MV_simple_i	Calculated Difference of Phase Angle		
DifV	ABBIED600_Rev3_ASG_SG_i_ED1	Difference Voltage		
DifHz	ABBIED600_Rev3_ASG_SG_i_ED1	Difference Frequency		
DifAng	ABBIED600_Rev3_ASG_SG_i_ED1	Difference Phase Angle		
LivDeaMod	ABBIED600_Rev3_ENG_SG_LivDeaMod_ED1	Live Dead Mode		
DeaLinVal	ABBIED600_Rev3_ASG_SP_i	Dead Line Value		
LivLinVal	ABBIED600_Rev3_ASG_SP_i	Live Line Value		
DeaBusVal	ABBIED600_Rev3_ASG_SP_i	Dead Bus Value		
LivBusVal	ABBIED600_Rev3_ASG_SP_i	Live Bus Value		
PlsTmms	ABBIED600_Rev1_ING_SP_e	Close Pulse Time		
CBTmms	ABBIED600_Rev1_ING_SP_e	Closing time of the breaker	E	REx620 MICS:2015>IEC 61850-7-4:2003
FailCmd	ABBIED600_Rev1_SPS_e	CB closing request failed	E	REx620 MICS:2015>IEC 61850-7-4:2003
FailSyn	ABBIED600_Rev1_SPS_e	CB closing failed	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClsRq	ABBIED600_Rev1_SPS_e	External closing request	E	REx620 MICS:2015>IEC 61850-7-4:2003
Byps	ABBIED600_Rev1_SPS_e	Request to bypass synchronism check and voltage check	E	REx620 MICS:2015>IEC 61850-7-4:2003
LLDBInd	ABBIED600_Rev1_SPS_e	Live Line, Dead Bus	E	REx620 MICS:2015>IEC 61850-7-4:2003
LLLBInd	ABBIED600_Rev1_SPS_e	Live Line, Live Bus	E	REx620 MICS:2015>IEC 61850-7-4:2003
DLLBInd	ABBIED600_Rev1_SPS_e	Dead Line, Live Bus	E	REx620 MICS:2015>IEC 61850-7-4:2003

DLDBInd	ABBIED600_Rev1_SPS_e	Dead Line, Dead Bus	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpModSC	ABBIED600_Rev2_ENG_SP_OpModSC_e	Synchrocheck mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpModCtl	ABBIED600_Rev2_ENG_SP_OpModCtrl_e	Selection of synchro check command or Continuous control mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
EnSt	ABBIED600_Rev2_INS_EnergSt_ED1_e	Energization state of Line and Bus	E	REx620 MICS:2015>IEC 61850-7-4:2003
MaxVEn	ABBIED600_Rev3_ASG_SP_i_e	Maximum voltage for energizing	E	REx620 MICS:2015>IEC 61850-7-4:2003
PhSht	ABBIED600_Rev3_ASG_SP_i_e	Correction of phase difference between measured U_BUS and U_LINE	E	REx620 MICS:2015>IEC 61850-7-4:2003
EnTmms	ABBIED600_Rev1_ING_SP_e	Time delay for energizing check	E	REx620 MICS:2015>IEC 61850-7-4:2003
MaxSynTmms	ABBIED600_Rev1_ING_SP_e	Maximum time to accept synchronizing	E	REx620 MICS:2015>IEC 61850-7-4:2003
MinSynTmms	ABBIED600_Rev1_ING_SP_e	Minimum time to accept synchronizing	E	REx620 MICS:2015>IEC 61850-7-4:2003
TestCtl	ABBIED600_Rev3_INC_TestCtl_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
VSrcSw	ABBIED600_Rev1_SPG_SP_e	Voltage source switch	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.117 LN: VAMMXU2 Name: MMXU (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
PPV	ABBIED600_Rev1_DEL_onephaseAB_full_i	Single phase to phase AB voltages		

PhV	AB-BIED600_Rev1_WYE_onephaseA_full_i	Single phase to ground A voltage		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
VMeas-Mod	ABBIED600_Rev3_ENG_SP_MeasMod_e	Selects used measurement mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	REx620 MICS:2015>IEC 61850-7-4:2003
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	REx620 MICS:2015>IEC 61850-7-4:2003
LoWrn	ABBIED600_Rev1_SPS_e	Low warning	E	REx620 MICS:2015>IEC 61850-7-4:2003
LoAlm	ABBIED600_Rev1_SPS_e	Low alarm	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.118 LN: VAAVMMXU2 Name: MMXU (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
PPV	AB-BIED600_Rev1_DEL_5_onephaseAB_sim-pler	Single phase to phase AB volt-ages		
PhV	ABBIED600_Rev1_WYE_onephaseA_sim-pler_i	Single phase to ground A voltage		
ClcMth	ABBIED600_Rev3_ENG_SP_ClcMth	Calculation method	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClcMod	ABBIED600_Rev2_ENG_SP_ClcMod	Calculation mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClcSrc	ABBIED600_Rev4_ORG_SP_1	Calculation start		

6.2.119 LN: RESVMMXU1 Name: MMXU (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_Of-fOn_FD_ED1	Operation		status-only,direct-with-normal-se-curity
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
PhV	ABBIED600_Rev3_WYE_res_full_i	Residual voltage		
VMeas-Mod	ABBIED600_Rev3_ENG_SP_Meas-Mod_e	Selects used measurement mode	E	REx620 MICS:2015>IEC 61850-7-4:2003

HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	REx620 MICS:2015>IEC 61850-7-4:2003
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	REx620 MICS:2015>IEC 61850-7-4:2003
RcdRs	ABBIED600_Rev2_SPC_control_e	RESVMMXU1 demands	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.120 LN: RVAVMMXU1 Name: MMXU (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
PhV	ABBIED600_Rev3_WYE_res_simpler_i	Residual voltage		
ClcMth	ABBIED600_Rev3_ENG_SP_ClcMth	Calculation method of statistical data objects	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClcMod	ABBIED600_Rev2_ENG_SP_ClcMod	Calculation mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClcSrc	ABBIED600_Rev4_ORG_SP_1	Object reference to source logical node		

6.2.121 LN: RVMAMMXU1 Name: MMXU (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
PhV	ABBIED600_Rev3_WYE_res_simpler_i	Residual voltage		
ClcMth	ABBIED600_Rev3_ENG_SP_ClcMth	Calculation method of statistical data objects	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClcMod	ABBIED600_Rev2_ENG_SP_ClcMod	Calculation mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClcSrc	ABBIED600_Rev4_ORG_SP_1	Object reference to source logical node		

6.2.122 LN: RVMIMMXU1 Name: MMXU (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		

Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
PhV	ABBIED600_Rev3_WYE_res_sim-pler_i	Residual voltage		
ClcMth	ABBIED600_Rev3_ENG_SP_ClcMth	Calculation method of statistical data objects	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClcMod	AB-BIED600_Rev2_ENG_SP_ClcMod	Calculation mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClcSrc	ABBIED600_Rev4_ORG_SP_1	Object reference to source logical node		

6.2.123 LN: MNSPTOC1 Name: PTOC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_Of-fOn_FD_ED1	Mode		status-only,direct-with-nor-mal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary out-puts	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	AB-BIED600_Rev2_CURVE_SG_setChar-act_ED1	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i_ED1	Machine time Mult		
MinOp-Tmms	ABBIED600_Rev1_ING_SP_1	Minimum Oper-ate Time		
Max-OpTmms	ABBIED600_Rev1_ING_SP	Maximum Oper-ate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
StrInh	ABBIED600_Rev1_SPS_e	Overheated ma-chine reconnec-tion blocking		
ARef	ABBIED600_Rev3_ASG_SP_i_e	Rated current (Ir) of the ma-chine (used only in the IDMT)	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003

TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
ClTms	ABBIED600_Rev1_ING_SP_1_e	Cooling time	E	REx620 MICS:2015>IEC 61850-7-4:2003
TmsRecEna	ABBIED600_Rev1_INS_e	Estimated time to reset of block restart	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.124 LN: MNSPTOC2 Name: PTOC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OfFOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG_setCharact_ED1	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i_ED1	Machine time Mult		
MinOpTmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
MaxOpTmms	ABBIED600_Rev1_ING_SP	Maximum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
StrInh	ABBIED600_Rev1_SPS_e	Overheated machine reconnection blocking		
ARef	ABBIED600_Rev3_ASG_SP_i_e	Rated current (Ir) of the machine (used only in the IDMT)	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-

				only,direct-with-normal-security
ClTms	ABBIED600_Rev1_ING_SP_1_e	Cooling time	E	REx620 MICS:2015>IEC 61850-7-4:2003
TmsRecEna	ABBIED600_Rev1_INS_e	Estimated time to reset of block restart	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.125 LN: LOFLPTUC1 Name: PTUC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OfOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Current setting/Start value high		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
BlkValA	ABBIED600_Rev3_ASG_SG_i_ED1_e	Current setting/Start value low	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.126 LN: LOFLPTUC2 Name: PTUC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OfOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003

Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Current setting/Start value high		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
BlkValA	ABBIED600_Rev3_ASG_SG_i_ED1_e	Current setting/Start value low	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.127 LN: JAMPTOC1 Name: PTOC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
StrVal	ABBIED600_Rev3_ASG_SP_i	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SP	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.128 LN: STTPMSS1 Name: PMSS (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	BLOCK		status-only,direct-with-normal-security

Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Signal to show that motor startup is in progress		
Op	ABBIED600_Rev1_ACT_simple	Operate/trip signal for stalling protection.		
MotStr	ABBIED600_Rev3_ASG_SG_i_ED1	Current value to indicate starting of motor		
LokRotTms	ABBIED600_Rev1_ING_SG_ED1	Lock Rotor Time, permissible locked rotor time		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpModStUp	ABBIED600_Rev2_ENG_SP_OpModStUp_e	Motor start-up operation mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrOvDlTmms	ABBIED600_Rev1_ING_SG_ED1_e	Time delay to check for completion of motor startup period	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_simple_i_e	Start time relative to the operate time for stall cond	E	REx620 MICS:2015>IEC 61850-7-4:2003
EnaEmgStr	ABBIED600_Rev1_SPS_e	Enable emergency start to disable lock of start motor	E	REx620 MICS:2015>IEC 61850-7-4:2003
StlInd	ABBIED600_Rev1_SPS_e	Input signal for showing the motor is not stalling	E	REx620 MICS:2015>IEC 61850-7-4:2003
BlkLOStr	ABBIED600_Rev1_SPS_e	Blocks lock out condition for restart of motor	E	REx620 MICS:2015>IEC 61850-7-4:2003
InPosCls	ABBIED600_Rev1_SPS_e	Input showing the status of motor circuit breaker	E	REx620 MICS:2015>IEC 61850-7-4:2003
TestPro	ABBIED600_Rev2_INC_TestPro_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
MotStop	ABBIED600_Rev3_ASG_SP_i_e	Current limit to check for motor standstill condition	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.129 LN: PREVPTOC1 Name: PTOC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

Mod	ABBIED600_Rev2_INC_Mod_OfFOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	PREVPTOC1		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate time delay		
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	PREVPTOC1	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.130 LN: MPTTR1 Name: PTTR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OfFOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
TmpRl	ABBIED600_Rev3_MV_simple_i	THERMLEV		
Op	ABBIED600_Rev1_ACT_simple	Operate		
AlmThm	ABBIED600_Rev1_SPS	Thermal Alarm		
ConsTms1	ABBIED600_Rev1_ING_SG_ED1	Time constant normal		
ConsTms2	ABBIED600_Rev1_ING_SG_ED1	Motor time constant during the start of motor		
ConsTms3	ABBIED600_Rev1_ING_SG_ED1	Motor time constant during the standstill condition of motor		
AlmVal	ABBIED600_Rev3_ASG_SG_i_ED1	Alarm thermal value		
BlkThm	ABBIED600_Rev1_SPS	Restart inhibited	E	REx620 MICS:2015>IEC 61850-7-4:2003
ARef	ABBIED600_Rev3_ASG_SP_i_e	Rated current (FLC) of the motor	E	REx620 MICS:2015>IEC 61850-7-4:2003

RsTmp	ABBIED600_Rev2_SPC_control_e	MPTTR1 temperature	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
DropoutVal	ABBIED600_Rev3_ASG_SG_i_ED1	Restart thermal Val	E	REx620 MICS:2015>IEC 61850-7-4:2003
WghFact	ABBIED600_Rev3_ASG_SG_i_ED1_e	Weighting factor	E	REx620 MICS:2015>IEC 61850-7-4:2003
OvlFact	ABBIED600_Rev3_ASG_SG_i_ED1_e	Overload factor (k)	E	REx620 MICS:2015>IEC 61850-7-4:2003
NgSeqFact	ABBIED600_Rev3_ASG_SG_i_ED1_e	Heating effect factor for negative sequence current	E	REx620 MICS:2015>IEC 61850-7-4:2003
EnvTmpSet	ABBIED600_Rev3_ASG_SG_i_ED1_e	Ambient temperature	E	REx620 MICS:2015>IEC 61850-7-4:2003
IniTmp	ABBIED600_Rev3_ASG_SP_i_e	Initial thermal Val	E	REx620 MICS:2015>IEC 61850-7-4:2003
EnvTmpMod	ABBIED600_Rev2_ENG_SG_EnvTmpMod_ED1_e	Mode of measuring ambient temperature	E	REx620 MICS:2015>IEC 61850-7-4:2003
EnaEmgStr	ABBIED600_Rev1_SPS_e	Enable emergency start to disable lock of start motor	E	REx620 MICS:2015>IEC 61850-7-4:2003
TmpUsed	ABBIED600_Rev3_MV_simple_i_e	The ambient temperature used in the calculation	E	REx620 MICS:2015>IEC 61850-7-4:2003
TmpAmb	ABBIED600_Rev3_MV_simple_i_e	Ambient temperature	E	REx620 MICS:2015>IEC 61850-7-4:2003
ThmLevStr	ABBIED600_Rev3_MV_simple_i_e	Thermal level at beginning of motor startup	E	REx620 MICS:2015>IEC 61850-7-4:2003
ThmLevEnd	ABBIED600_Rev3_MV_simple_i_e	Thermal level at the end of motor startup situation	E	REx620 MICS:2015>IEC 61850-7-4:2003
BlkThmRsTm	ABBIED600_Rev1_INS_e	Estimated time to reset of block restart	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	MPTTR1	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.131 LN: MRE1PTOC1 Name: PTOC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behavior		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only

Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Alarm delay time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset delay time		
TstOutCmd	AB-BIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.132 LN: ESMGAPC1 Name: GAPC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_Of-fOn_FD_ED1	Mode		status-only,direct-with-nor-mal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Emergency start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Motor standstill A		
RqEmgStr	ABBIED600_Rev1_SPS_e	ST_EMERG_RQ	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	AB-BIED600_Rev20_INC_TstOut_ED1_e	Test control for out-puts	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-se-curity

6.2.133 LN: MPTRC1 Name: PTRC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_Of-fOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all bi-nary outputs		
Op	ABBIED600_Rev1_ACT_threephase	Operate		

6.2.134 LN: CMMXU2 Name: MMXU (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
A	ABBIED600_Rev3_WYE_threephase_full_i	Phase currents		
AMeasMod	ABBIED600_Rev3_ENG_SP_MeasMod_e	Selects used measurement mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
NumPh	ABBIED600_Rev3_ENG_SP_StrPhSel_e	Number of phases required by limit supervision	E	REx620 MICS:2015>IEC 61850-7-4:2003
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	REx620 MICS:2015>IEC 61850-7-4:2003
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	REx620 MICS:2015>IEC 61850-7-4:2003
LoWrn	ABBIED600_Rev1_SPS_e	Low warning	E	REx620 MICS:2015>IEC 61850-7-4:2003
LoAlm	ABBIED600_Rev1_SPS_e	Low alarm	E	REx620 MICS:2015>IEC 61850-7-4:2003
RcdRs	ABBIED600_Rev2_SPC_control_e	CMMXU2 demands	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.135 LN: CAVMMXU2 Name: MMXU (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
A	ABBIED600_Rev3_WYE_threephase_simpler_i	Phase current		
ClcMth	ABBIED600_Rev3_ENG_SP_ClcMth	Calculation method of statistical data objects	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClcMod	ABBIED600_Rev2_ENG_SP_ClcMod	Calculation mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClcSrc	ABBIED600_Rev4_ORG_SP_1	Object reference to source logical node		

6.2.136 LN: CMAMMXU2 Name: MMXU (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
A	AB-BIED600_Rev3_WYE_threephase_sim-pler_i	Phase current		
ClcMth	ABBIED600_Rev3_ENG_SP_ClcMth	Calculation method of statistical data ob-jects	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClcMod	ABBIED600_Rev2_ENG_SP_ClcMod	Calculation mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClcSrc	ABBIED600_Rev4_ORG_SP_1	Object reference to source logical node		

6.2.137 LN: CMIMMXU2 Name: MMXU (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
A	AB-BIED600_Rev3_WYE_threephase_sim-pler_i	Phase current		
ClcMth	ABBIED600_Rev3_ENG_SP_ClcMth	Calculation method of statistical data ob-jects	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClcMod	ABBIED600_Rev2_ENG_SP_ClcMod	Calculation mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClcSrc	ABBIED600_Rev4_ORG_SP_1	Object reference to source logical node		

6.2.138 LN: PHLPTOC2 Name: PTOC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_Of-fOn_FD_ED1	Mode		status-only,direct-with-nor-mal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary out-puts	E	REx620 MICS:2015>IEC 61850-7-4:2003

Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG_ED1	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i_ED1	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv_ED1	Type of Reset Curve		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	REx620 MICS:2015>IEC 61850-7-4:2003
NumPh	ABBIED600_Rev3_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrValMult	ABBIED600_Rev3_ASG_SG_i_ED1_e	Multiplier for scaling the start value	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
AMeasMod	ABBIED600_Rev3_ENG_SP_MeasMod_e	Measuring mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.139 LN: PHIPTOC2 Name: PTOC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		

OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	REx620 MICS:2015>IEC 61850-7-4:2003
NumPh	ABBIED600_Rev3_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrValMult	ABBIED600_Rev3_ASG_SG_i_ED1_e	Multiplier for scaling the start value	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.140 LN: EFHPTOC2 Name: PTOC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OfOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG_ED1	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i_ED1	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv_ED1	Type of Reset Curve		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		

AMeasMod	ABBIED600_Rev3_ENG_SP_MeasMod_e	Measurement mode selection	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrValMult	ABBIED600_Rev3_ASG_SG_i_ED1_e	Multiplier for operate current level	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
InEnaMult	ABBIED600_Rev1_SPS_e	Enable current multiplier	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
AResSigSel	ABBIED600_Rev2_ENG_SP_AResSigSel_e	Selection for used Io signal	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.141 LN: OEPVPH1 Name: PVPH (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
VHzCrv	ABBIED600_Rev2_CURVE_SG_setCharact_ED1	Operation curve type		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate delay time		
RsDlTmms	ABBIED600_Rev1_ING_SP	Reset delay time		
TmMult	ABBIED600_Rev3_ASG_SG_i_ED1	Time multiplier		
MinOpTmms	ABBIED600_Rev1_ING_SP	Minimum operate time		
MaxOpTmms	ABBIED600_Rev1_ING_SP	Maximum operate time		
StrInh	ABBIED600_Rev1_SPS_e	Restart inhibited		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClAct	ABBIED600_Rev1_SPS_e	Cooling active signal	E	REx620 MICS:2015>IEC 61850-7-4:2003

VHzRat	ABBIED600_Rev3_MV_simple_i_e	Relative voltage to frequency ratio	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Start duration	E	REx620 MICS:2015>IEC 61850-7-4:2003
MaxVCont	ABBIED600_Rev3_ASG_SP_i_e	Maximum allowed continuous voltage	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClTms	ABBIED600_Rev1_ING_SP_1_e	Cooling time in seconds	E	REx620 MICS:2015>IEC 61850-7-4:2003
ConsDlTmms	ABBIED600_Rev1_ING_SP_e	Constant delay parameter	E	REx620 MICS:2015>IEC 61850-7-4:2003
XLeak	ABBIED600_Rev3_ASG_SP_i_e	Winding leakage reactance	E	REx620 MICS:2015>IEC 61850-7-4:2003
VSel	ABBIED600_Rev3_ENG_SP_VSel_e	Voltage selection	E	REx620 MICS:2015>IEC 61850-7-4:2003
VPhSel	ABBIED600_Rev2_ENG_SP_VPhSel_e	Voltage phase selection	E	REx620 MICS:2015>IEC 61850-7-4:2003
TmsRecEna	ABBIED600_Rev1_INS_e	Estimated time to reset of block restart in seconds	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.142 LN: OEPVPH2 Name: PVPH (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
VHzCrv	ABBIED600_Rev2_CURVE_SG_setCharact_ED1	Operation curve type		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate delay time		
RsDlTmms	ABBIED600_Rev1_ING_SP	Reset delay time		
TmMult	ABBIED600_Rev3_ASG_SG_i_ED1	Time multiplier		
MinOpTmms	ABBIED600_Rev1_ING_SP	Minimum operate time		

Max-OpTmms	ABBIED600_Rev1_ING_SP	Maximum operate time		
StrInh	ABBIED600_Rev1_SPS_e	Restart inhibited		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClAct	ABBIED600_Rev1_SPS_e	Cooling active signal	E	REx620 MICS:2015>IEC 61850-7-4:2003
VHzRat	ABBIED600_Rev3_MV_simple_i_e	Relative voltage to frequency ratio	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Start duration	E	REx620 MICS:2015>IEC 61850-7-4:2003
MaxVCont	ABBIED600_Rev3_ASG_SP_i_e	Maximum allowed continuous voltage	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClTms	ABBIED600_Rev1_ING_SP_1_e	Cooling time in seconds	E	REx620 MICS:2015>IEC 61850-7-4:2003
ConsDlT-mms	ABBIED600_Rev1_ING_SP_e	Constant delay parameter	E	REx620 MICS:2015>IEC 61850-7-4:2003
XLeak	ABBIED600_Rev3_ASG_SP_i_e	Winding leakage reactance	E	REx620 MICS:2015>IEC 61850-7-4:2003
VSel	ABBIED600_Rev3_ENG_SP_VSel_e	Voltage selection	E	REx620 MICS:2015>IEC 61850-7-4:2003
VPhSel	ABBIED600_Rev2_ENG_SP_VPhSel_e	Voltage phase selection	E	REx620 MICS:2015>IEC 61850-7-4:2003
TmsRecEna	ABBIED600_Rev1_INS_e	Estimated time to reset of block restart in seconds	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.143 LN: T2PTTR1 Name: PTTR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Tmp	ABBIED600_Rev3_MV_simple_i	TEMP		
TmpRl	ABBIED600_Rev3_MV_simple_i	TEMP_RL		
Str	ABBIED600_Rev1_ACD_simple	Start		

Op	ABBIED600_Rev1_ACT_simple	Operate		
AlmThm	ABBIED600_Rev1_SPS	Thermal Alarm		
TmpMax	ABBIED600_Rev3_ASG_SG_i_ED1	Max temperature		
ConsTms1	ABBIED600_Rev1_ING_SG_ED1	Short time constant for thermal model		
ConsTms2	ABBIED600_Rev1_ING_SG_ED1	Long time constant for thermal model		
AlmVal	ABBIED600_Rev3_ASG_SG_i_ED1	Alarm temperature		
RsTmp	ABBIED600_Rev2_SPC_control_e	Reset temperature	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
BlkThm	ABBIED600_Rev1_SPS	Block reclose signal	E	REx620 MICS:2015>IEC 61850-7-4:2003
TmpUsed	ABBIED600_Rev3_MV_simple_i_e	The ambient temperature used in the calculation	E	REx620 MICS:2015>IEC 61850-7-4:2003
TmpAmb	ABBIED600_Rev3_MV_simple_i_e	Ambient temperature	E	REx620 MICS:2015>IEC 61850-7-4:2003
ARef	ABBIED600_Rev3_ASG_SG_i_ED1_e	Current reference for thermal model	E	REx620 MICS:2015>IEC 61850-7-4:2003
EnvTmpSet	ABBIED600_Rev3_ASG_SG_i_ED1_e	Ambient temperature	E	REx620 MICS:2015>IEC 61850-7-4:2003
IniTmp	ABBIED600_Rev3_ASG_SP_i_e	Initial temperature	E	REx620 MICS:2015>IEC 61850-7-4:2003
RecTmpSet	ABBIED600_Rev3_ASG_SG_i_ED1_e	Temperature for reset of BLK_CLOSE after operate	E	REx620 MICS:2015>IEC 61850-7-4:2003
TmpR	ABBIED600_Rev3_ASG_SG_i_ED1_e	Temperature reference for thermal model	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
WghFact	ABBIED600_Rev3_ASG_SG_i_ED1_e	Weighting factor of the short time constant	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpTmp	ABBIED600_Rev3_ASG_SG_i_ED1_e	Operate temperature, percent value	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpTm	ABBIED600_Rev3_INS_Unit_e	Estimated time to operate	E	REx620 MICS:2015>IEC 61850-7-4:2003
BlkThmRsTm	ABBIED600_Rev3_INS_Unit_e	Estimated time to deactivate InhRec	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.144 LN: PHPTUC2 Name: PTUC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security

Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Current setting/Start value high		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
BlkValA	ABBIED600_Rev3_ASG_SG_i_ED1	Current setting/Start value low		
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
OpModPh	ABBIED600_Rev2_ENG_SP_OpModPh_e	Operation mode	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.145 LN: TR2PTRC1 Name: PTRC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Op	ABBIED600_Rev1_ACT_threephase	Operate signal		

6.2.146 LN: DPPDUP1 Name: PDUP (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only

Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG_time_ED1	Operate delay time		
RsDlTmms	ABBIED600_Rev1_ING_SP	Reset delay time		
PwrMeasMod	ABBIED600_Rev3_ENG_SP_PwrMeasMod_e	Measurement mode for power calculation	E	REx620 MICS:2015>IEC 61850-7-4:2003
RevPol	ABBIED600_Rev1_SPG_SP_e	Rotate polarizing quantity	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Start duration	E	REx620 MICS:2015>IEC 61850-7-4:2003
InDsaSt	ABBIED600_Rev1_SPS_e	Signal to block the function during generator startup	E	REx620 MICS:2015>IEC 61850-7-4:2003
DsaTmms	ABBIED600_Rev1_ING_SP_time_e	Additional wait time after CB closing	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.147 LN: DPPDUP2 Name: PDUP (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG_time_ED1	Operate delay time		
RsDlTmms	ABBIED600_Rev1_ING_SP	Reset delay time		
PwrMeasMod	ABBIED600_Rev3_ENG_SP_PwrMeasMod_e	Measurement mode for power calculation	E	REx620 MICS:2015>IEC 61850-7-4:2003
RevPol	ABBIED600_Rev1_SPG_SP_e	Rotate polarizing quantity	E	REx620 MICS:2015>IEC 61850-7-4:2003

TstOutCmd	AB-BIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Start duration	E	REx620 MICS:2015>IEC 61850-7-4:2003
InDsaSt	ABBIED600_Rev1_SPS_e	Signal to block the function during generator startup	E	REx620 MICS:2015>IEC 61850-7-4:2003
DsaTmms	ABBIED600_Rev1_ING_SP_time_e	Additional wait time after CB closing	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.148 LN: DPPDOP1 Name: PDOP (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod_ED1	Directional mode		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG_time_ED1	Operate delay time		
RsDlTmms	ABBIED600_Rev1_ING_SP	Reset delay time		
PwrMeasMod	ABBIED600_Rev3_ENG_SP_PwrMeasMod_e	Measurement mode for power calculation	E	REx620 MICS:2015>IEC 61850-7-4:2003
RevPol	ABBIED600_Rev1_SPG_SP_e	Rotate polarizing quantity	E	REx620 MICS:2015>IEC 61850-7-4:2003
PwrAng	ABBIED600_Rev3_ASG_SG_i_ED1_e	Power angle	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	AB-BIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.149 LN: DPPDOP2 Name: PDOP (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_Of-fOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
DirMod	ABBIED600_Rev3_ENG_SG_Dir-Mod_ED1	Directional mode		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG_time_ED1	Operate delay time		
RsDlTmms	ABBIED600_Rev1_ING_SP	Reset delay time		
PwrMeas-Mod	ABBIED600_Rev3_ENG_SP_Pwr-MeasMod_e	Measurement mode for power calcula-tion	E	REx620 MICS:2015>IEC 61850-7-4:2003
RevPol	ABBIED600_Rev1_SPG_SP_e	Rotate polariz-ing quantity	E	REx620 MICS:2015>IEC 61850-7-4:2003
PwrAng	ABBIED600_Rev3_ASG_SG_i_ED1_e	Power angle	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	AB-BIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,di-rect-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.150 LN: DPPDOP3 Name: PDOP (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_Of-fOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		

DirMod	ABBIED600_Rev3_ENG_SG_Dir-Mod_ED1	Directional mode		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG_time_ED1	Operate delay time		
RsDlTmms	ABBIED600_Rev1_ING_SP	Reset delay time		
PwrMeas-Mod	ABBIED600_Rev3_ENG_SP_Pwr-MeasMod_e	Measurement mode for power calcula-tion	E	REx620 MICS:2015>IEC 61850-7-4:2003
RevPol	ABBIED600_Rev1_SPG_SP_e	Rotate polariz-ing quantity	E	REx620 MICS:2015>IEC 61850-7-4:2003
PwrAng	ABBIED600_Rev3_ASG_SG_i_ED1_e	Power angle	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	AB-BIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,di-rect-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.151 LN: RESCMMXU2 Name: MMXU (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_Of-fOn_FD_ED1	Operation		status-only,direct-with-normal-se-curity
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
A	ABBIED600_Rev3_WYE_res_full_i	Residual current		
AMeas-Mod	ABBIED600_Rev3_ENG_SP_Meas-Mod_e	Selects used measurement mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	REx620 MICS:2015>IEC 61850-7-4:2003
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	REx620 MICS:2015>IEC 61850-7-4:2003
RcdRs	ABBIED600_Rev2_SPC_control_e	RESCMMXU2 de-mands	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.152 LN: RCAVMMXU2 Name: MMXU (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_INC_Mod_On_ED1	Mode		status-only

Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
A	ABBIED600_Rev3_WYE_res_sim-pler_i	Residual current		
ClcMth	ABBIED600_Rev3_ENG_SP_ClcMth	Calculation method of statistical data objects	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClcMod	AB-BIED600_Rev2_ENG_SP_ClcMod	Calculation mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClcSrc	ABBIED600_Rev4_ORG_SP_1	Object reference to source logical node		

6.2.153 LN: RCMAMMXU2 Name: MMXU (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
A	ABBIED600_Rev3_WYE_res_sim-pler_i	Residual current		
ClcMth	ABBIED600_Rev3_ENG_SP_ClcMth	Calculation method of statistical data objects	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClcMod	AB-BIED600_Rev2_ENG_SP_ClcMod	Calculation mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClcSrc	ABBIED600_Rev4_ORG_SP_1	Object reference to source logical node		

6.2.154 LN: RCMIMMXU2 Name: MMXU (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
A	ABBIED600_Rev3_WYE_res_sim-pler_i	Residual current		
ClcMth	ABBIED600_Rev3_ENG_SP_ClcMth	Calculation method of statistical data objects	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClcMod	AB-BIED600_Rev2_ENG_SP_ClcMod	Calculation mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClcSrc	ABBIED600_Rev4_ORG_SP_1	Object reference to source logical node		

6.2.155 LN: VAMMXU3 Name: MMXU (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OfFOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
PPV	ABBIED600_Rev1_DEL_onephaseAB_full_i	Single phase to phase AB voltages		
PhV	ABBIED600_Rev1_WYE_onephaseA_full_i	Single phase to ground A voltage		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
VMeasMod	ABBIED600_Rev3_ENG_SP_MeasMod_e	Selects used measurement mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	REx620 MICS:2015>IEC 61850-7-4:2003
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	REx620 MICS:2015>IEC 61850-7-4:2003
LoWrn	ABBIED600_Rev1_SPS_e	Low warning	E	REx620 MICS:2015>IEC 61850-7-4:2003
LoAlm	ABBIED600_Rev1_SPS_e	Low alarm	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.156 LN: VAAVMMXU3 Name: MMXU (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
PPV	ABBIED600_Rev1_DEL_5_onephaseAB_simpler	Single phase to phase AB voltages		
PhV	ABBIED600_Rev1_WYE_onephaseA_simpler_i	Single phase to ground A voltage		
ClcMth	ABBIED600_Rev3_ENG_SP_ClcMth	Calculation method	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClcMod	ABBIED600_Rev2_ENG_SP_ClcMod	Calculation mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClcSrc	ABBIED600_Rev4_ORG_SP_1	Calculation start		

6.2.157 LN: IL1TCTR1 Name: TCTR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

Mod	AB-BIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Mode		
Health	ABBIED600_Rev4_INS_health_ED1	Mode		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
AmpSv	ABBIED600_Rev1_SAV_92_lite	Current (Sampled value) phase A		
ARtg	AB-BIED600_Rev3_ASG_SP_ARtg_VRtg	Primary rated current		
Cor	ABBIED600_Rev1_ASG_SP_f	Phase A Current phasor magnitude correction of an external current transformer		
AngCor	ABBIED600_Rev3_ASG_SP_i	Phase A Current phasor angle correction of an external current transformer		
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	REx620 MICS:2015>IEC 61850-7-4:2003
Wrn	ABBIED600_Rev1_SPS_e	Warning	E	REx620 MICS:2015>IEC 61850-7-4:2003
ARtgScy	ABBIED600_Rev2_ENG_SP_ARtgSec_e	Secondary rated current	E	REx620 MICS:2015>IEC 61850-7-4:2003
ARtgNom	ABBIED600_Rev1_ASG_SP_f_e	Network Nominal Current	E	REx620 MICS:2015>IEC 61850-7-4:2003,order code dependent
VRtgScyRat	ABBIED600_Rev1_ASG_SP_f_e	Rated Secondary Value	E	REx620 MICS:2015>IEC 61850-7-4:2003,order code dependent
RevPol	ABBIED600_Rev1_SPG_SP_e	Reverse polarity	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.158 LN: RESTCTR1 Name: TCTR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Mode		
Health	ABBIED600_Rev4_INS_health_ED1	Mode		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
AmpSv	ABBIED600_Rev1_SAV_92_lite	Current (Sampled value)		
ARtg	AB-BIED600_Rev3_ASG_SP_ARtg_VRtg	Primary rated current		
Cor	ABBIED600_Rev1_ASG_SP_f	Current phasor magnitude correction of an external current transformer		
AngCor	ABBIED600_Rev3_ASG_SP_i	Residual Current phasor angle correction of an external current transformer		

Alm	ABBIED600_Rev1_SPS_e	Alarm	E	REx620 MICS:2015>IEC 61850-7-4:2003
Wrn	ABBIED600_Rev1_SPS_e	Warning	E	REx620 MICS:2015>IEC 61850-7-4:2003
ARtgScy	ABBIED600_Rev2_ENG_SP_ARt-gSec_e	Secondary rated current	E	REx620 MICS:2015>IEC 61850-7-4:2003
RevPol	ABBIED600_Rev1_SPG_SP_e	Reverse polarity	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.159 LN: UL1TVTR1 Name: TVTR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Mode		
Health	ABBIED600_Rev4_INS_health_ED1	Mode		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
VolSv	ABBIED600_Rev1_SAV_92_lite	Voltage (sampled value) phase A		
FuFail	ABBIED600_Rev1_SPS	TVTR fuse failure		
VRtg	ABBIED600_Rev3_ASG_SP_ARtg_VRtg	Primary rated voltage		
Rat	ABBIED600_Rev1_ASG_SP_f	Division ratio		
Cor	ABBIED600_Rev1_ASG_SP_f	Amplitude corr. A		
AngCor	ABBIED600_Rev3_ASG_SP_i	Angle corr. A		
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	REx620 MICS:2015>IEC 61850-7-4:2003
Wrn	ABBIED600_Rev1_SPS_e	Warning	E	REx620 MICS:2015>IEC 61850-7-4:2003
VRtgScy	ABBIED600_Rev1_ASG_SP_f_e	Secondary rated voltage	E	REx620 MICS:2015>IEC 61850-7-4:2003
VConnTyp	AB-BIED600_Rev3_ENG_SP_ConnType_e	VT connection	E	REx620 MICS:2015>IEC 61850-7-4:2003
VInTyp	ABBIED600_Rev2_ENG_SP_AnIn-Type_e	Type of the volt-age input	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.160 LN: RESTVTR1 Name: TVTR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Mode		
Health	ABBIED600_Rev4_INS_health_ED1	Mode		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
VolSv	ABBIED600_Rev1_SAV_92_lite	Voltage (sampled value)		

VRtg	AB-BIED600_Rev3_ASG_SP_ARtg_VRtg	Rated primary voltage		
Cor	ABBIED600_Rev1_ASG_SP_f	Voltage phasor magnitude correction of external voltage transformer		
AngCor	ABBIED600_Rev3_ASG_SP_i	Residual Voltage phasor angle correction of an external voltage transformer		
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	REx620 MICS:2015>IEC 61850-7-4:2003
Wrn	ABBIED600_Rev1_SPS_e	Warning	E	REx620 MICS:2015>IEC 61850-7-4:2003
VRtgScy	ABBIED600_Rev1_ASG_SP_f_e	Rated secondary voltage	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.161 LN: VMMXU1 Name: MMXU (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
PPV	ABBIED600_Rev3_DEL_threephase_full_i	Phase to phase voltages		
PhV	ABBIED600_Rev3_WYE_4	Phase to ground voltages		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
VMeasMod	ABBIED600_Rev3_ENG_SP_MeasMod_e	Selects used measurement mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
NumPh	ABBIED600_Rev3_ENG_SP_StrPhSel_e	Num of phases	E	REx620 MICS:2015>IEC 61850-7-4:2003
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	REx620 MICS:2015>IEC 61850-7-4:2003
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	REx620 MICS:2015>IEC 61850-7-4:2003
LoWrn	ABBIED600_Rev1_SPS_e	Low warning	E	REx620 MICS:2015>IEC 61850-7-4:2003
LoAlm	ABBIED600_Rev1_SPS_e	Low alarm	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.162 LN: VAVMMXU1 Name: MMXU (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only

Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
PPV	ABBIED600_Rev3_DEL_5_simpler	Phase to phase voltages		
PhV	ABBIED600_Rev3_WYE_threephase_simpler_i	Phase to earth voltages		
ClcMth	ABBIED600_Rev3_ENG_SP_ClcMth	Calculation method	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClcMod	ABBIED600_Rev2_ENG_SP_ClcMod	Calculation mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClcSrc	ABBIED600_Rev4_ORG_SP_1	Calculation start		

6.2.163 LN: UL1TVTR2 Name: TVTR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Mode		
Health	ABBIED600_Rev4_INS_health_ED1	Mode		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
VolSv	ABBIED600_Rev1_SAV_92_lite	Voltage (sampled value) phase A		
FuFail	ABBIED600_Rev1_SPS	TVTR fuse failure		
VRtg	ABBIED600_Rev3_ASG_SP_ARtg_VRtg	Primary rated voltage		
Rat	ABBIED600_Rev1_ASG_SP_f	Division ratio		order code dependent
Cor	ABBIED600_Rev1_ASG_SP_f	Phase A Voltage phasor magnitude correction of an external voltage transformer		
AngCor	ABBIED600_Rev3_ASG_SP_i	Angle corr. A		
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	REx620 MICS:2015>IEC 61850-7-4:2003
Wrn	ABBIED600_Rev1_SPS_e	Warning	E	REx620 MICS:2015>IEC 61850-7-4:2003
VRtgScy	ABBIED600_Rev1_ASG_SP_f_e	Secondary rated voltage	E	REx620 MICS:2015>IEC 61850-7-4:2003
VConnTyp	ABBIED600_Rev3_ENG_SP_ConnType_e	VT connection	E	REx620 MICS:2015>IEC 61850-7-4:2003
VInTyp	ABBIED600_Rev2_ENG_SP_AnInType_e	Type of the voltage input	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.164 LN: IL1TCTR2 Name: TCTR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Mode		
Health	ABBIED600_Rev4_INS_health_ED1	Mode		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
AmpSv	ABBIED600_Rev1_SAV_92_lite	Current (Sampled value) phase A		
ARtg	AB-BIED600_Rev3_ASG_SP_ARtg_VRtg	Primary rated current		
Cor	ABBIED600_Rev1_ASG_SP_f	Phase A Current phasor magnitude correction of an external current transformer		
AngCor	ABBIED600_Rev3_ASG_SP_i	Phase A Current phasor angle correction of an external current transformer		
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	REx620 MICS:2015>IEC 61850-7-4:2003
Wrn	ABBIED600_Rev1_SPS_e	Warning	E	REx620 MICS:2015>IEC 61850-7-4:2003
ARtgScy	ABBIED600_Rev2_ENG_SP_ARtgSec_e	Secondary current	E	REx620 MICS:2015>IEC 61850-7-4:2003
ARtgNom	ABBIED600_Rev1_ASG_SP_f_e	Network Nominal Current	E	REx620 MICS:2015>IEC 61850-7-4:2003,order code dependent
VRtgScyRat	ABBIED600_Rev1_ASG_SP_f_e	Rated Secondary Value	E	REx620 MICS:2015>IEC 61850-7-4:2003,order code dependent
RevPol	ABBIED600_Rev1_SPG_SP_e	Reverse polarity	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.165 LN: RESTCTR2 Name: TCTR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Mode		
Health	ABBIED600_Rev4_INS_health_ED1	Mode		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
AmpSv	ABBIED600_Rev1_SAV_92_lite	Current (Sampled value)		
ARtg	AB-BIED600_Rev3_ASG_SP_ARtg_VRtg	Primary rated current		
Cor	ABBIED600_Rev1_ASG_SP_f	Current phasor magnitude correction of an external current transformer		

AngCor	ABBIED600_Rev3_ASG_SP_i	Residual Current phasor angle correction of an external current transformer		
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	REx620 MICS:2015>IEC 61850-7-4:2003
Wrn	ABBIED600_Rev1_SPS_e	Warning	E	REx620 MICS:2015>IEC 61850-7-4:2003
ARtgScy	ABBIED600_Rev2_ENG_SP_ARtgSec_e	Secondary rated current	E	REx620 MICS:2015>IEC 61850-7-4:2003
RevPol	ABBIED600_Rev1_SPG_SP_e	Reverse polarity	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.166 LN: UL1TVTR3 Name: TVTR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On_ED1	Mode		status-only
Beh	ABBIED600_Rev2_INS_beh_ED1	Mode		
Health	ABBIED600_Rev4_INS_health_ED1	Mode		ED1 only
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		ED1 only
VolSv	ABBIED600_Rev1_SAV_92_lite	Voltage (sampled value) phase A		
FuFail	ABBIED600_Rev1_SPS	TVTR fuse failure		
VRtg	ABBIED600_Rev3_ASG_SP_ARtg_VRtg	Primary rated voltage		
Rat	ABBIED600_Rev1_ASG_SP_f	Division ratio		order code dependent
Cor	ABBIED600_Rev1_ASG_SP_f	Phase A Voltage phasor magnitude correction of an external voltage transformer		
AngCor	ABBIED600_Rev3_ASG_SP_i	Angle corr. A		
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	REx620 MICS:2015>IEC 61850-7-4:2003
Wrn	ABBIED600_Rev1_SPS_e	Warning	E	REx620 MICS:2015>IEC 61850-7-4:2003
VRtgScy	ABBIED600_Rev1_ASG_SP_f_e	Secondary rated voltage	E	REx620 MICS:2015>IEC 61850-7-4:2003
VConnTyp	ABBIED600_Rev3_ENG_SP_ConnType_e	VT connection	E	REx620 MICS:2015>IEC 61850-7-4:2003
VInTyp	ABBIED600_Rev2_ENG_SP_AnInType_e	Type of the voltage input	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.167 LN: XRGGIO110 Name: GGIO (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_Of-fOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
AnIn1	ABBIED600_Rev6_MV_6	Analogue input 1		
AnIn2	ABBIED600_Rev6_MV_6	Analogue input 2		
AnIn3	ABBIED600_Rev6_MV_6	Analogue input 3		
AnIn4	ABBIED600_Rev6_MV_6	Analogue input 4		
AnIn5	ABBIED600_Rev6_MV_6	Analogue input 5		
AnIn6	ABBIED600_Rev6_MV_6	Analogue input 6		
AnIn7	ABBIED600_Rev6_MV_6	Analogue input 7		
AnIn8	ABBIED600_Rev6_MV_6	Analogue input 8		
Alm1	ABBIED600_Rev1_SPS	Alarm		
Wrn1	ABBIED600_Rev1_SPS	Warning	E	REx620 MICS:2015>IEC 61850-7-4:2003
InMinVal1	ABBIED600_Rev1_ASG_SP_f_e	Input mini-mum	E	REx620 MICS:2015>IEC 61850-7-4:2003
InMinVal2	ABBIED600_Rev1_ASG_SP_f_e	Input mini-mum	E	REx620 MICS:2015>IEC 61850-7-4:2003
InMinVal3	ABBIED600_Rev1_ASG_SP_f_e	Input mini-mum	E	REx620 MICS:2015>IEC 61850-7-4:2003
InMinVal4	ABBIED600_Rev1_ASG_SP_f_e	Input mini-mum	E	REx620 MICS:2015>IEC 61850-7-4:2003
InMinVal5	ABBIED600_Rev1_ASG_SP_f_e	Input mini-mum	E	REx620 MICS:2015>IEC 61850-7-4:2003
InMinVal6	ABBIED600_Rev1_ASG_SP_f_e	Input mini-mum	E	REx620 MICS:2015>IEC 61850-7-4:2003
InMinVal7	ABBIED600_Rev1_ASG_SP_f_e	Input mini-mum	E	REx620 MICS:2015>IEC 61850-7-4:2003
InMinVal8	ABBIED600_Rev1_ASG_SP_f_e	Input mini-mum	E	REx620 MICS:2015>IEC 61850-7-4:2003
InMaxVal1	ABBIED600_Rev1_ASG_SP_f_e	Input maxi-mum	E	REx620 MICS:2015>IEC 61850-7-4:2003
InMaxVal2	ABBIED600_Rev1_ASG_SP_f_e	Input maxi-mum	E	REx620 MICS:2015>IEC 61850-7-4:2003

InMaxVal3	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	REx620 MICS:2015>IEC 61850-7-4:2003
InMaxVal4	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	REx620 MICS:2015>IEC 61850-7-4:2003
InMaxVal5	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	REx620 MICS:2015>IEC 61850-7-4:2003
InMaxVal6	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	REx620 MICS:2015>IEC 61850-7-4:2003
InMaxVal7	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	REx620 MICS:2015>IEC 61850-7-4:2003
InMaxVal8	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	REx620 MICS:2015>IEC 61850-7-4:2003
InMod1	ABBIED600_Rev2_ENG_SP_SenInMod_e	Input mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
InMod2	ABBIED600_Rev2_ENG_SP_SenInMod_e	Input mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
InMod3	ABBIED600_Rev2_ENG_SP_SenInMod_e	Input mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
InMod4	ABBIED600_Rev2_ENG_SP_SenInMod_e	Input mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
InMod5	ABBIED600_Rev2_ENG_SP_SenInMod_e	Input mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
InMod6	ABBIED600_Rev2_ENG_SP_SenInMod_e	Input mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
InMod7	ABBIED600_Rev2_ENG_SP_SenInMod_e	Input mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
InMod8	ABBIED600_Rev2_ENG_SP_SenInMod_e	Input mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
CardNam	ABBIED600_Rev8_DPL_eeprom_2_ED1_e	Card information	E	REx620 MICS:2015>IEC 61850-7-4:2003
HwId	ABBIED600_Rev1_LPL_VSS_1_20_e	HW module		
TestStaId	ABBIED600_Rev1_LPL_VSS_dU_20_e	Testing		

6.2.168 LN: XRGGIO105 Name: GGIO (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
AnIn1	ABBIED600_Rev6_MV_6	Analogue input 1		
AnIn2	ABBIED600_Rev6_MV_6	Analogue input 2		
AnIn3	ABBIED600_Rev6_MV_6	Analogue input 3		

AnIn4	ABBIED600_Rev6_MV_6	Analogue input 4		
AnIn5	ABBIED600_Rev6_MV_6	Analogue input 5		
AnIn6	ABBIED600_Rev6_MV_6	Analogue input 6		
AnIn7	ABBIED600_Rev6_MV_6	Analogue input 7		
AnIn8	ABBIED600_Rev6_MV_6	Analogue input 8		
Alm1	ABBIED600_Rev1_SPS	Alarm		
Wrn1	ABBIED600_Rev1_SPS	Warning	E	REx620 MICS:2015>IEC 61850-7-4:2003
InMinVal1	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	REx620 MICS:2015>IEC 61850-7-4:2003
InMinVal2	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	REx620 MICS:2015>IEC 61850-7-4:2003
InMinVal3	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	REx620 MICS:2015>IEC 61850-7-4:2003
InMinVal4	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	REx620 MICS:2015>IEC 61850-7-4:2003
InMinVal5	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	REx620 MICS:2015>IEC 61850-7-4:2003
InMinVal6	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	REx620 MICS:2015>IEC 61850-7-4:2003
InMinVal7	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	REx620 MICS:2015>IEC 61850-7-4:2003
InMinVal8	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	REx620 MICS:2015>IEC 61850-7-4:2003
InMaxVal1	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	REx620 MICS:2015>IEC 61850-7-4:2003
InMaxVal2	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	REx620 MICS:2015>IEC 61850-7-4:2003
InMaxVal3	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	REx620 MICS:2015>IEC 61850-7-4:2003
InMaxVal4	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	REx620 MICS:2015>IEC 61850-7-4:2003
InMaxVal5	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	REx620 MICS:2015>IEC 61850-7-4:2003
InMaxVal6	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	REx620 MICS:2015>IEC 61850-7-4:2003
InMaxVal7	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	REx620 MICS:2015>IEC 61850-7-4:2003
InMaxVal8	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	REx620 MICS:2015>IEC 61850-7-4:2003
InMod1	ABBIED600_Rev2_ENG_SP_SenInMod_e	Input mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
InMod2	ABBIED600_Rev2_ENG_SP_SenInMod_e	Input mode	E	REx620 MICS:2015>IEC 61850-7-4:2003

InMod3	ABBIED600_Rev2_ENG_SP_SenInMod_e	Input mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
InMod4	ABBIED600_Rev2_ENG_SP_SenInMod_e	Input mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
InMod5	ABBIED600_Rev2_ENG_SP_SenInMod_e	Input mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
InMod6	ABBIED600_Rev2_ENG_SP_SenInMod_e	Input mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
InMod7	ABBIED600_Rev2_ENG_SP_SenInMod_e	Input mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
InMod8	ABBIED600_Rev2_ENG_SP_SenInMod_e	Input mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
CardNam	ABBIED600_Rev8_DPL_eeprom_2_ED1_e	Card information	E	REx620 MICS:2015>IEC 61850-7-4:2003
HwId	ABBIED600_Rev1_LPL_VSS_1_20_e	HW module		
TestStaId	ABBIED600_Rev1_LPL_VSS_dU_20_e	Testing		

6.2.169 LN: XBRGGIO130 Name: GGIO (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
AnIn1	ABBIED600_Rev6_MV_6	Analogue input 1		
AnIn2	ABBIED600_Rev6_MV_6	Analogue input 2		
AnIn3	ABBIED600_Rev6_MV_6	Analogue input 3		
SPCSO1	ABBIED600_Rev2_SPC_control	X130-Output 1		status-only,direct-with-normal-security
SPCSO2	ABBIED600_Rev2_SPC_control	X130-Output 2		status-only,direct-with-normal-security
SPCSO3	ABBIED600_Rev2_SPC_control	X130-Output 3		status-only,direct-with-normal-security
Alm1	ABBIED600_Rev1_SPS	Alarm		
Wrn1	ABBIED600_Rev1_SPS	Warning		
InMinVal1	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	REx620 MICS:2015>IEC 61850-7-4:2003
InMinVal2	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	REx620 MICS:2015>IEC 61850-7-4:2003
InMinVal3	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	REx620 MICS:2015>IEC 61850-7-4:2003
InMaxVal1	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	REx620 MICS:2015>IEC 61850-7-4:2003

InMaxVal2	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	REx620 MICS:2015>IEC 61850-7-4:2003
InMaxVal3	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	REx620 MICS:2015>IEC 61850-7-4:2003
InMod1	ABBIED600_Rev2_ENG_SP_SenInMod_e	Input mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
InMod2	ABBIED600_Rev2_ENG_SP_SenInMod_e	Input mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
InMod3	ABBIED600_Rev2_ENG_SP_SenInMod_e	Input mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
CardNam	ABBIED600_Rev8_DPL_eeprom_2_ED1_e	Card information	E	REx620 MICS:2015>IEC 61850-7-4:2003
HwId	ABBIED600_Rev1_LPL_VSS_1_20_e	HW module	E	REx620 MICS:2015>IEC 61850-7-4:2003
TestStaId	ABBIED600_Rev1_LPL_VSS_dU_20_e	Testing	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.170 LN: PHIZ1 Name: PHIZ (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	PHIZ1		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
Pos	ABBIED600_Rev4_DPC_simple	Position		status-only
PosCls	ABBIED600_Rev1_SPS_simple_e	Circuit Breaker Closed input	E	REx620 MICS:2015>IEC 61850-7-4:2003
PosOpn	ABBIED600_Rev1_SPS_simple_e	Circuit Breaker Open input	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
SysTyp	ABBIED600_Rev2_ENG_SP_PHIZMod_e	System Type	E	REx620 MICS:2015>IEC 61850-7-4:2003
SecLev	ABBIED600_Rev1_ING_SG_ED1_e	Security Level	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.171 LN: ARCSARC11 Name: SARC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

Mod	ABBIED600_Rev2_INC_Mod_OfFOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Beh		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
FACntRs	ABBIED600_Rev2_INC_control_int	Fault arc counter		status-only,direct-with-normal-security
FADet	ABBIED600_Rev1_SPS	Fault arc detected		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
InRemFA	ABBIED600_Rev1_SPS_e	Remote Fault arc detected	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.172 LN: ARCSARC21 Name: SARC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OfFOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Beh		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
FACntRs	ABBIED600_Rev2_INC_control_int	Fault arc counter		status-only,direct-with-normal-security
FADet	ABBIED600_Rev1_SPS	Fault arc detected		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
InRemFA	ABBIED600_Rev1_SPS_e	Remote Fault arc detected	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.173 LN: ARCSARC31 Name: SARC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OfFOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Beh		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only

FACntRs	ABBIED600_Rev2_INC_control_int	Fault arc counter		status-only,direct-with-normal-security
FADet	ABBIED600_Rev1_SPS	Fault arc detected		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
InRemFA	ABBIED600_Rev1_SPS_e	Remote Fault arc detected	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.174 LN: SCEFRFLO1 Name: RFLO (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
FltZ	ABBIED600_Rev3_CMV_S_1	Fault loop impedance		
FltDiskm	ABBIED600_Rev3_MV_simple_i	Fault distance		
FltLoop	ABBIED600_Rev5_INS_FltLoop_ED1	Fault loop		
RcdBlk	ABBIED600_Rev1_SPS_simple_e	Signal for blocking the triggering	E	REx620 MICS:2015>IEC 61850-7-4:2003
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	REx620 MICS:2015>IEC 61850-7-4:2003
TrgSt	ABBIED600_Rev1_SPS_e	Triggered	E	REx620 MICS:2015>IEC 61850-7-4:2003
FltPtR	ABBIED600_Rev3_MV_simple_i_e	Fault point resistance	E	REx620 MICS:2015>IEC 61850-7-4:2003
FltR	ABBIED600_Rev3_MV_simple_i_e	Fault loop resistance	E	REx620 MICS:2015>IEC 61850-7-4:2003
FltX	ABBIED600_Rev3_MV_simple_i_e	Fault loop reactance	E	REx620 MICS:2015>IEC 61850-7-4:2003
PhReact	ABBIED600_Rev3_MV_simple_i_e	Fault phase reactance	E	REx620 MICS:2015>IEC 61850-7-4:2003
RatFltALod	ABBIED600_Rev3_MV_simple_i_e	Fault to load current ratio	E	REx620 MICS:2015>IEC 61850-7-4:2003
EqDisLod	ABBIED600_Rev3_MV_simple_i_e	Estimated equivalent load distance	E	REx620 MICS:2015>IEC 61850-7-4:2003
PhGndCapac	ABBIED600_Rev3_MV_simple_i_e	Estimated PE capacitive reactance of the line	E	REx620 MICS:2015>IEC 61850-7-4:2003

Trg	ABBIED600_Rev2_SPC_control_e	Triggering signal for distance calculation	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
TrgXC0F	ABBIED600_Rev2_SPC_control_e	Triggering signal for XC0F calculation	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
RcdRs	ABBIED600_Rev2_SPC_control_e	Recorded data reset	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
FltDisQ	ABBIED600_Rev1_INS_e	Fault distance quality	E	REx620 MICS:2015>IEC 61850-7-4:2003
ZMaxLod	ABBIED600_Rev3_ASG_SG_i_ED1_e	Maximum load impedance	E	REx620 MICS:2015>IEC 61850-7-4:2003
PhLeakRis	ABBIED600_Rev3_ASG_SG_i_ED1_e	Line PE leakage resistance	E	REx620 MICS:2015>IEC 61850-7-4:2003
PhLinCapac	ABBIED600_Rev3_ASG_SG_i_ED1_e	Line PE capacitive reactance	E	REx620 MICS:2015>IEC 61850-7-4:2003
EqLodDis	ABBIED600_Rev3_ASG_SG_i_ED1_e	Equivalent load distance	E	REx620 MICS:2015>IEC 61850-7-4:2003
TrgMod	ABBIED600_Rev1_ENG_SP_TrgMod_e	Trigger mode for distance calculation	E	REx620 MICS:2015>IEC 61850-7-4:2003
HiLimSpt	ABBIED600_Rev3_ASG_SG_i_ED1	High alarm limit		
LoLimSpt	ABBIED600_Rev3_ASG_SG_i_ED1	Low alarm limit		
EFAlgSel	ABBIED600_Rev2_ENG_SP_EFAlg_e	PE-loop calculation algorithm	E	REx620 MICS:2015>IEC 61850-7-4:2003
EFAlgASel	ABBIED600_Rev2_ENG_SP_EFAlgASel_e	Earth fault current model	E	REx620 MICS:2015>IEC 61850-7-4:2003
EnaLodComp	ABBIED600_Rev1_SPG_SP_e	Enable load compensation	E	REx620 MICS:2015>IEC 61850-7-4:2003
SimpMod	ABBIED600_Rev1_SPG_SP_e	Enable simple model	E	REx620 MICS:2015>IEC 61850-7-4:2003
TestProRl	ABBIED600_Rev4_INC_TestProRl_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
DisEstVa	ABBIED600_Rev3_ASG_SP_i_e	Allowed variation of short circuit distance estimate	E	REx620 MICS:2015>IEC 61850-7-4:2003
PhVMeas	ABBIED600_Rev2_ENG_SP_PhVMeas_e	Phase voltage measurement principle	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.175 LN: COL1PTOC1 Name: PTOC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i_ED1	Time Dial Multiplier		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
NumPh	ABBIED600_Rev3_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003
PkIntgAPhA	ABBIED600_Rev3_MV_simple_i_e	Peak value of integrated current phase A	E	REx620 MICS:2015>IEC 61850-7-4:2003
PkIntgAPhB	ABBIED600_Rev3_MV_simple_i_e	Peak value of integrated current phase B	E	REx620 MICS:2015>IEC 61850-7-4:2003
PkIntgAPhC	ABBIED600_Rev3_MV_simple_i_e	Peak value of integrated current phase C	E	REx620 MICS:2015>IEC 61850-7-4:2003
TestPro	ABBIED600_Rev2_INC_TestPro_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.176 LN: CUB1PTOC1 Name: PTOC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Alarm start value		

OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Alarm delay time		
FailCnt	ABBIED600_Rev2_INC_control_int_e	Total number of capacitor element failures	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
CntBr1PhsA	ABBIED600_Rev2_INC_control_int_e	Capacitor element failures in branch1 of phase A	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
CntBr2PhsA	ABBIED600_Rev2_INC_control_int_e	Capacitor element failures in branch2 of phase A	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
CntBr1PhsB	ABBIED600_Rev2_INC_control_int_e	Capacitor element failures in branch1 of phase B	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
CntBr2PhsB	ABBIED600_Rev2_INC_control_int_e	Capacitor element failures in branch2 of phase B	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
CntBr1PhsC	ABBIED600_Rev2_INC_control_int_e	Capacitor element failures in branch1 of phase C	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
CntBr2PhsC	ABBIED600_Rev2_INC_control_int_e	Capacitor element failures in branch2 of phase C	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
CntRs	ABBIED600_Rev2_SPC_control_e	Reset all counters	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
FailCntLim	ABBIED600_Rev1_ING_SG_ED1_e	Maximum permissible element failures	E	REx620 MICS:2015>IEC 61850-7-4:2003
NatCompEna	ABBIED600_Rev1_SPG_SG_ED1_e	Enable natural unbalance compensation	E	REx620 MICS:2015>IEC 61850-7-4:2003
RcdUnb	ABBIED600_Rev2_SPC_control_e	Record natural Unbalance current	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

CubAlmMod	ABBIED600_Rev2_ENG_SG_CubAlmMod_ED1_e	Alarm mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
FuLoct	ABBIED600_Rev2_ENG_SG_FuLoct_ED1_e	Capacitor bank fuse location	E	REx620 MICS:2015>IEC 61850-7-4:2003
NatUnbCur	ABBIED600_Rev3_WYE_neut_simple_angle_i_e	Natural unbalance current	E	REx620 MICS:2015>IEC 61850-7-4:2003
CompUnbCur	ABBIED600_Rev3_WYE_neut_simple_angle_i_e	Compensated unbalance current	E	REx620 MICS:2015>IEC 61850-7-4:2003
TestPro	ABBIED600_Rev2_INC_TestPro_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.177 LN: SRC1PTOC1 Name: PTOC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start Value		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate Delay Time		
TunHNum	ABBIED600_Rev1_ING_SG_ED1_e	Tuning Harmonic Number	E	REx620 MICS:2015>IEC 61850-7-4:2003
ResoA	ABBIED600_Rev3_WYE_threephase_simple_i_e	Resonance Current	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.178 LN: DQPTUV1 Name: PTUV (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only

NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value for under voltage detection		
OpDlTmms	ABBIED600_Rev1_ING_SG_time_ED1	Operate delay time		
TstOutCmd	AB-BIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_simple_i_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.179 LN: DQPTUV2 Name: PTUV (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_Of-fOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value for under voltage detection		
OpDlTmms	ABBIED600_Rev1_ING_SG_time_ED1	Operate delay time		
TstOutCmd	AB-BIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_simple_i_e	Ratio of start time / operate time	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.180 LN: LVRTPTUV1 Name: PTUV (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_Of-fOn_FD_ED1	Mode		status-only,direct-with-nor-mal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		

Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
TmVChr33	ABBIED600_Rev1_CSG_SP_10	Multiline curve characteristic definition		
NumPt	ABBIED600_Rev1_ING_SP_1_e	Coordinates used for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
CrvPt0Tmms	ABBIED600_Rev1_ING_SP_1_e	1st time coordinate for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
CrvPt1Tmms	ABBIED600_Rev1_ING_SP_1_e	2nd time coordinate for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
CrvPt2Tmms	ABBIED600_Rev1_ING_SP_1_e	3rd time coordinate for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
CrvPt3Tmms	ABBIED600_Rev1_ING_SP_1_e	4th time coordinate for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
CrvPt4Tmms	ABBIED600_Rev1_ING_SP_1_e	5th time coordinate for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
CrvPt5Tmms	ABBIED600_Rev1_ING_SP_1_e	6th time coordinate for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
CrvPt6Tmms	ABBIED600_Rev1_ING_SP_1_e	7th time coordinate for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
CrvPt7Tmms	ABBIED600_Rev1_ING_SP_1_e	8th time coordinate for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
CrvPt8Tmms	ABBIED600_Rev1_ING_SP_1_e	9th time coordinate for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
CrvPt9Tmms	ABBIED600_Rev1_ING_SP_1_e	10th time coordinate for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
CrvPt0Ydir	ABBIED600_Rev3_ASG_SP_i_e	1st voltage coordinate for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003

CrvPt1Ydir	ABBIED600_Rev3_ASG_SP_i_e	2nd voltage coordinate for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
CrvPt2Ydir	ABBIED600_Rev3_ASG_SP_i_e	3rd voltage coordinate for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
CrvPt3Ydir	ABBIED600_Rev3_ASG_SP_i_e	4th voltage coordinate for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
CrvPt4Ydir	ABBIED600_Rev3_ASG_SP_i_e	5th voltage coordinate for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
CrvPt5Ydir	ABBIED600_Rev3_ASG_SP_i_e	6th voltage coordinate for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
CrvPt6Ydir	ABBIED600_Rev3_ASG_SP_i_e	7th voltage coordinate for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
CrvPt7Ydir	ABBIED600_Rev3_ASG_SP_i_e	8th voltage coordinate for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
CrvPt8Ydir	ABBIED600_Rev3_ASG_SP_i_e	9th voltage coordinate for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
CrvPt9Ydir	ABBIED600_Rev3_ASG_SP_i_e	10th voltage coordinate for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
NumPh	ABBIED600_Rev3_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	REx620 MICS:2015>IEC 61850-7-4:2003
VCrtSel	ABBIED600_Rev1_ENG_SP_VCrtSel_e	Voltage criteria selection	E	REx620 MICS:2015>IEC 61850-7-4:2003
TestPro	ABBIED600_Rev2_INC_TestPro_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.181 LN: LVRTPTUV2 Name: PTUV (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		

Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
TmVChr33	ABBIED600_Rev1_CSG_SP_10	Multiline curve characteristic definition		
NumPt	ABBIED600_Rev1_ING_SP_1_e	Coordinates used for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
CrvPt0Tmms	ABBIED600_Rev1_ING_SP_1_e	1st time coordinate for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
CrvPt1Tmms	ABBIED600_Rev1_ING_SP_1_e	2nd time coordinate for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
CrvPt2Tmms	ABBIED600_Rev1_ING_SP_1_e	3rd time coordinate for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
CrvPt3Tmms	ABBIED600_Rev1_ING_SP_1_e	4th time coordinate for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
CrvPt4Tmms	ABBIED600_Rev1_ING_SP_1_e	5th time coordinate for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
CrvPt5Tmms	ABBIED600_Rev1_ING_SP_1_e	6th time coordinate for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
CrvPt6Tmms	ABBIED600_Rev1_ING_SP_1_e	7th time coordinate for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
CrvPt7Tmms	ABBIED600_Rev1_ING_SP_1_e	8th time coordinate for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
CrvPt8Tmms	ABBIED600_Rev1_ING_SP_1_e	9th time coordinate for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
CrvPt9Tmms	ABBIED600_Rev1_ING_SP_1_e	10th time coordinate for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
CrvPt0Ydir	ABBIED600_Rev3_ASG_SP_i_e	1st voltage coordinate for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003

CrvPt1Ydir	ABBIED600_Rev3_ASG_SP_i_e	2nd voltage coordinate for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
CrvPt2Ydir	ABBIED600_Rev3_ASG_SP_i_e	3rd voltage coordinate for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
CrvPt3Ydir	ABBIED600_Rev3_ASG_SP_i_e	4th voltage coordinate for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
CrvPt4Ydir	ABBIED600_Rev3_ASG_SP_i_e	5th voltage coordinate for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
CrvPt5Ydir	ABBIED600_Rev3_ASG_SP_i_e	6th voltage coordinate for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
CrvPt6Ydir	ABBIED600_Rev3_ASG_SP_i_e	7th voltage coordinate for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
CrvPt7Ydir	ABBIED600_Rev3_ASG_SP_i_e	8th voltage coordinate for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
CrvPt8Ydir	ABBIED600_Rev3_ASG_SP_i_e	9th voltage coordinate for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
CrvPt9Ydir	ABBIED600_Rev3_ASG_SP_i_e	10th voltage coordinate for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
NumPh	ABBIED600_Rev3_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	REx620 MICS:2015>IEC 61850-7-4:2003
VCrtSel	ABBIED600_Rev1_ENG_SP_VCrtSel_e	Voltage criteria selection	E	REx620 MICS:2015>IEC 61850-7-4:2003
TestPro	ABBIED600_Rev2_INC_TestPro_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.182 LN: LVRTPTUV3 Name: PTUV (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		

Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
TmVChr33	ABBIED600_Rev1_CSG_SP_10	Multiline curve characteristic definition		
NumPt	ABBIED600_Rev1_ING_SP_1_e	Coordinates used for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
CrvPt0Tmms	ABBIED600_Rev1_ING_SP_1_e	1st time coordinate for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
CrvPt1Tmms	ABBIED600_Rev1_ING_SP_1_e	2nd time coordinate for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
CrvPt2Tmms	ABBIED600_Rev1_ING_SP_1_e	3rd time coordinate for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
CrvPt3Tmms	ABBIED600_Rev1_ING_SP_1_e	4th time coordinate for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
CrvPt4Tmms	ABBIED600_Rev1_ING_SP_1_e	5th time coordinate for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
CrvPt5Tmms	ABBIED600_Rev1_ING_SP_1_e	6th time coordinate for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
CrvPt6Tmms	ABBIED600_Rev1_ING_SP_1_e	7th time coordinate for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
CrvPt7Tmms	ABBIED600_Rev1_ING_SP_1_e	8th time coordinate for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
CrvPt8Tmms	ABBIED600_Rev1_ING_SP_1_e	9th time coordinate for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
CrvPt9Tmms	ABBIED600_Rev1_ING_SP_1_e	10th time coordinate for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
CrvPt0Ydir	ABBIED600_Rev3_ASG_SP_i_e	1st voltage coordinate for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003

CrvPt1Ydir	ABBIED600_Rev3_ASG_SP_i_e	2nd voltage coordinate for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
CrvPt2Ydir	ABBIED600_Rev3_ASG_SP_i_e	3rd voltage coordinate for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
CrvPt3Ydir	ABBIED600_Rev3_ASG_SP_i_e	4th voltage coordinate for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
CrvPt4Ydir	ABBIED600_Rev3_ASG_SP_i_e	5th voltage coordinate for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
CrvPt5Ydir	ABBIED600_Rev3_ASG_SP_i_e	6th voltage coordinate for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
CrvPt6Ydir	ABBIED600_Rev3_ASG_SP_i_e	7th voltage coordinate for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
CrvPt7Ydir	ABBIED600_Rev3_ASG_SP_i_e	8th voltage coordinate for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
CrvPt8Ydir	ABBIED600_Rev3_ASG_SP_i_e	9th voltage coordinate for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
CrvPt9Ydir	ABBIED600_Rev3_ASG_SP_i_e	10th voltage coordinate for defining LVRT curve	E	REx620 MICS:2015>IEC 61850-7-4:2003
NumPh	ABBIED600_Rev3_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	REx620 MICS:2015>IEC 61850-7-4:2003
VCrtSel	ABBIED600_Rev1_ENG_SP_VCrtSel_e	Voltage criteria selection	E	REx620 MICS:2015>IEC 61850-7-4:2003
TestPro	ABBIED600_Rev2_INC_TestPro_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.183 LN: VVSPPAM1 Name: PPAM (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		

Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start signal		
Op	ABBIED600_Rev1_ACT_simple	Operate signal for vector shift		
StrVal	ABBIED600_Rev3_ASG_SG_i_ED1	Start value		
BlkValV	ABBIED600_Rev3_ASG_SG_i_ED1_e	Block value (minimum operating voltage)	E	REx620 MICS:2015>IEC 61850-7-4:2003
BlkIntnSt	ABBIED600_Rev1_ACT_simple_e	Protection function internally blocked	E	REx620 MICS:2015>IEC 61850-7-4:2003
PhSpvn	ABBIED600_Rev2_ENG_SP_PhSv_e	Monitored voltage phase	E	REx620 MICS:2015>IEC 61850-7-4:2003
MaxV	ABBIED600_Rev3_ASG_SG_i_ED1_e	Voltage above which function is internally blocked	E	REx620 MICS:2015>IEC 61850-7-4:2003
VShtPhA	ABBIED600_Rev3_MV_simple_i_e	Vector shift for ph-earth voltage A or ph-ph voltage AB	E	REx620 MICS:2015>IEC 61850-7-4:2003
VShtPhB	ABBIED600_Rev3_MV_simple_i_e	Vector shift for ph-earth voltage B or ph-ph voltage BC	E	REx620 MICS:2015>IEC 61850-7-4:2003
VShtPhC	ABBIED600_Rev3_MV_simple_i_e	Vector shift for ph-earth voltage C or ph-ph voltage CA	E	REx620 MICS:2015>IEC 61850-7-4:2003
VShtPsSeq	ABBIED600_Rev3_MV_simple_i_e	Positive sequence voltage	E	REx620 MICS:2015>IEC 61850-7-4:2003
TestPro	ABBIED600_Rev2_INC_TestPro_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.184 LN: UEXPDIS1 Name: PDIS (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		

Op	ABBIED600_Rev1_ACT_simple	Operate		
PoRch	ABBIED600_Rev3_ASG_SG_i_ED1	Polar Reach is the Diameter of the Mho diagram		
Ofs	ABBIED600_Rev3_ASG_SG_i_ED1	Offset of the impedance Mho circle		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP	Reset Delay Time		
Dsp	ABBIED600_Rev3_ASG_SG_i_ED1_e	Displacement of the impedance Mho circle	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Start duration	E	REx620 MICS:2015>IEC 61850-7-4:2003
ZMeasMod	ABBIED600_Rev2_ENG_SP_ZMeasMod_e	Measurement mode for impedance calculation	E	REx620 MICS:2015>IEC 61850-7-4:2003
PhSelZClc	ABBIED600_Rev2_ENG_SP_VPhSel_e	Voltage phase selection	E	REx620 MICS:2015>IEC 61850-7-4:2003
ExLosEna	ABBIED600_Rev1_SPG_SP_e	External loss detection enable/disable	E	REx620 MICS:2015>IEC 61850-7-4:2003
VRv	ABBIED600_Rev1_SPG_SP_e	Rotate voltage signals	E	REx620 MICS:2015>IEC 61850-7-4:2003
InExLos	ABBIED600_Rev1_SPS_e	Input for external excitation loss detection	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.185 LN: UEXPDIS2 Name: PDIS (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS	Block signal for all binary outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
PoRch	ABBIED600_Rev3_ASG_SG_i_ED1	Polar Reach is the Diameter of		

		the Mho diagram		
Ofs	ABBIED600_Rev3_ASG_SG_i_ED1	Offset of the impedance Mho circle		
OpDlTmms	ABBIED600_Rev1_ING_SG_ED1	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP	Reset Delay Time		
Dsp	ABBIED600_Rev3_ASG_SG_i_ED1_e	Displacement of the impedance Mho circle	E	REx620 MICS:2015>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Start duration	E	REx620 MICS:2015>IEC 61850-7-4:2003
ZMeasMod	ABBIED600_Rev2_ENG_SP_ZMeasMod_e	Measurement mode for impedance calculation	E	REx620 MICS:2015>IEC 61850-7-4:2003
PhSelZClc	ABBIED600_Rev2_ENG_SP_VPhSel_e	Voltage phase selection	E	REx620 MICS:2015>IEC 61850-7-4:2003
ExLosEna	ABBIED600_Rev1_SPG_SP_e	External loss detection enable/disable	E	REx620 MICS:2015>IEC 61850-7-4:2003
VRv	ABBIED600_Rev1_SPG_SP_e	Rotate voltage signals	E	REx620 MICS:2015>IEC 61850-7-4:2003
InExLos	ABBIED600_Rev1_SPS_e	Input for external excitation loss detection	E	REx620 MICS:2015>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_INC_TstOut_ED1_e	Test control for outputs	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.186 LN: LLN0 Name: LLN0 (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_OnTestBlockOff_ED1	Control		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Control		
Health	ABBIED600_Rev4_INS_health_ED1	Control		ED1 only
NamPlt	ABBIED600_Rev2_LPL_CTRLDR_LNN0	Control		
Loc	ABBIED600_Rev1_SPS_retain	Local / Remote		
LocKey	ABBIED600_Rev1_SPS_simple	Local operation	E	REx620 MICS:2015>IEC 61850-7-4:2003
LocSta	ABBIED600_Rev1_SPC_retain	Station operation	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only,direct-with-normal-security
GrRef	ABBIED600_Rev4_ORG_SP_1	GrRef		
MltLev	ABBIED600_Rev1_SPG_SP	Multiple levels	E	REx620 MICS:2015>IEC 61850-7-4:2003

CmdBlk	ABBIED600_Rev1_SPC_simple	Com-mands blocked	E	REx620 MICS:2015>IEC 61850-7-4:2003,status-only
LocKeyHMI	ABBIED600_Rev3_INS_LocKeyHMI_ED1_e	Control HMI	E	REx620 MICS:2015>IEC 61850-7-4:2003
LocKeyOff	ABBIED600_Rev1_SPS_simple_e	Control disable	E	REx620 MICS:2015>IEC 61850-7-4:2003
LocKeyLoc	ABBIED600_Rev1_SPS_simple_e	Control lo-cal	E	REx620 MICS:2015>IEC 61850-7-4:2003
LocKeyRem	ABBIED600_Rev1_SPS_simple_e	Control remote	E	REx620 MICS:2015>IEC 61850-7-4:2003
LocKeySta	ABBIED600_Rev1_SPS_simple_e	Control station	E	REx620 MICS:2015>IEC 61850-7-4:2003
LocKeyAll	ABBIED600_Rev1_SPS_simple_e	Control all	E	REx620 MICS:2015>IEC 61850-7-4:2003
LocRemMod	AB-BIED600_Rev1_ENG_SP_LocRemMod_e	Control mode	E	REx620 MICS:2015>IEC 61850-7-4:2003
StaLevSet	ABBIED600_Rev1_ENG_SP_StaLevSet_e	Station authority	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.187 LN: CBCSWI1 Name: CSWI (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_Of-fOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Loc	ABBIED600_Rev1_SPS	Local operation		
OpCntRs	ABBIED600_Rev2_INC_control_int	Operation counter		status-only,direct-with-normal-security
Pos	ABBIED600_Rev8_DPC_control	Switch, general		status-only,direct-with-normal-security,sbo-with-enhanced-se-curity
OpOpn	ABBIED600_Rev1_ACT_simple	Switch, general		
OpCls	ABBIED600_Rev1_ACT_simple	Switch, general		
SelOpn	ABBIED600_Rev1_SPS	Selection open switch	E	REx620 MICS:2015>IEC 61850-7-4:2003
SelCls	ABBIED600_Rev1_SPS	Selection close switch	E	REx620 MICS:2015>IEC 61850-7-4:2003
PosDlT-mms	ABBIED600_Rev1_ING_SP_1_e	Event delay	E	REx620 MICS:2015>IEC 61850-7-4:2003
PosOpn	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit opn	E	REx620 MICS:2015>IEC 61850-7-4:2003
PosCls	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit cls	E	REx620 MICS:2015>IEC 61850-7-4:2003
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	REx620 MICS:2015>IEC 61850-7-4:2003

AdpPls	ABBIED600_Rev1_SPG_SP_e	Adaptive pulse	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpnEna	ABBIED600_Rev1_SPS_e	OPEN_ENAD	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClsEna	ABBIED600_Rev1_SPS_e	CLOSE_ENAD	E	REx620 MICS:2015>IEC 61850-7-4:2003
InSynOk	ABBIED600_Rev1_SPS_e	SYNC OK	E	REx620 MICS:2015>IEC 61850-7-4:2003
SynItlByps	ABBIED600_Rev1_SPS_e	SYNC_ITL_BYP	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.188 LN: CBCSWI2 Name: CSWI (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Loc	ABBIED600_Rev1_SPS	Local operation		
OpCntRs	ABBIED600_Rev2_INC_control_int	Operation counter		status-only,direct-with-normal-security
Pos	ABBIED600_Rev8_DPC_control	Switch, general		status-only,direct-with-normal-security,sbo-with-enhanced-security
OpOpn	ABBIED600_Rev1_ACT_simple	Switch, general		
OpCls	ABBIED600_Rev1_ACT_simple	Switch, general		
SelOpn	ABBIED600_Rev1_SPS	Selection open switch	E	REx620 MICS:2015>IEC 61850-7-4:2003
SelCls	ABBIED600_Rev1_SPS	Selection close switch	E	REx620 MICS:2015>IEC 61850-7-4:2003
PosDlTmms	ABBIED600_Rev1_ING_SP_1_e	Event delay	E	REx620 MICS:2015>IEC 61850-7-4:2003
PosOpn	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit opn	E	REx620 MICS:2015>IEC 61850-7-4:2003
PosCls	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit cls	E	REx620 MICS:2015>IEC 61850-7-4:2003
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	REx620 MICS:2015>IEC 61850-7-4:2003
AdpPls	ABBIED600_Rev1_SPG_SP_e	Adaptive pulse	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpnEna	ABBIED600_Rev1_SPS_e	OPEN_ENAD	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClsEna	ABBIED600_Rev1_SPS_e	CLOSE_ENAD	E	REx620 MICS:2015>IEC 61850-7-4:2003
InSynOk	ABBIED600_Rev1_SPS_e	SYNC OK	E	REx620 MICS:2015>IEC 61850-7-4:2003

SynItlByps	ABBIED600_Rev1_SPS_e	SYNC_ITL_BYP	E	REx620 MICS:2015>IEC 61850-7-4:2003

6.2.189 LN: CBCSWI3 Name: CSWI (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_INC_Mod_OffOn_FD_ED1	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_INS_beh_ED1	Behaviour		
Health	ABBIED600_Rev4_INS_health_ED1	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Loc	ABBIED600_Rev1_SPS	Local operation		
OpCntRs	ABBIED600_Rev2_INC_control_int	Operation counter		status-only,direct-with-normal-security
Pos	ABBIED600_Rev8_DPC_control	Switch, general		status-only,direct-with-normal-security,sbo-with-enhanced-security
OpOpn	ABBIED600_Rev1_ACT_simple	Switch, general		
OpCls	ABBIED600_Rev1_ACT_simple	Switch, general		
SelOpn	ABBIED600_Rev1_SPS	Selection open switch	E	REx620 MICS:2015>IEC 61850-7-4:2003
SelCls	ABBIED600_Rev1_SPS	Selection close switch	E	REx620 MICS:2015>IEC 61850-7-4:2003
PosDlTmms	ABBIED600_Rev1_ING_SP_1_e	Event delay	E	REx620 MICS:2015>IEC 61850-7-4:2003
PosOpn	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit opn	E	REx620 MICS:2015>IEC 61850-7-4:2003
PosCls	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit cls	E	REx620 MICS:2015>IEC 61850-7-4:2003
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	REx620 MICS:2015>IEC 61850-7-4:2003
AdpPls	ABBIED600_Rev1_SPG_SP_e	Adaptive pulse	E	REx620 MICS:2015>IEC 61850-7-4:2003
OpnEna	ABBIED600_Rev1_SPS_e	OPEN_ENAD	E	REx620 MICS:2015>IEC 61850-7-4:2003
ClsEna	ABBIED600_Rev1_SPS_e	CLOSE_ENAD	E	REx620 MICS:2015>IEC 61850-7-4:2003
InSynOk	ABBIED600_Rev1_SPS_e	SYNC OK	E	REx620 MICS:2015>IEC 61850-7-4:2003
SynItlByps	ABBIED600_Rev1_SPS_e	SYNC_ITL_BYP	E	REx620 MICS:2015>IEC 61850-7-4:2003

7 Common Data Class Extensions

7.1 New common data classes

7.2 Extented data classes ED1

7.2.1 ABBIED600_Rev5_ENG_SP_DNPPort_ED1

Attribute name	Attribute type	FC	TrgOp	Value/Value range	M/O/E	Remarks
setVal	Enum	SP		ABBIED600_Rev1_DNPPort		
cdcNs	VisString255	EX			E	
cdcName	VisString255	EX			E	
eIp	VisString255	EX			E	

7.2.2 ABBIED600_Rev3_SPG_SP_authority_ED1

Attribute name	Attribute type	FC	TrgOp	Value/Value range	M/O/E	Remarks
setVal	BOOLEAN	SP				
cdcNs	VisString255	EX			E	
cdcName	VisString255	EX			E	
pwdAdmin	VisString255	EX			E	
pwdEng	VisString255	EX			E	
pwdOper	VisString255	EX			E	
pwdView	VisString255	EX			E	

7.2.3 ABBIED600_Rev4_SPS_LocClk_ED1

Attribute name	Attribute type	FC	TrgOp	Value/Value range	M/O/E	Remarks
stVal	BOOLEAN	ST	dchg		M	
q	Quality	ST	qchg		M	
t	Timestamp	ST			M	
cdcNs	VisString255	EX			E	
cdcName	VisString255	EX			E	
time	VisString255	EX			E	
date	VisString255	EX			E	
timeSpring	VisString255	EX			E	
dateSpring	VisString255	EX			E	
offsetSpring	INT16	EX			E	
daySpring	Enum	EX		ABBIED600_Rev1_weekday	E	
timeAutumn	VisString255	EX			E	
dateAutumn	VisString255	EX			E	
dayAutumn	Enum	EX		ABBIED600_Rev1_weekday	E	
offsetSpringMinVal	INT16	CF				
offsetSpringMaxVal	INT16	CF				

7.2.4 ABBIED600_Rev4_ING_SG_Unit_ED1

Attribute name	Attribute type	FC	TrgOp	Value/Value range	M/O/E	Remarks

setVal	INT32	SG				
minVal	INT32	CF				
maxVal	INT32	CF				
stepSize	INT32U	CF				
cdcNs	VisString255	EX			E	
cdcName	VisString255	EX			E	
units	Struct	CF		ABBIED600_Rev3_Unit		

7.2.5 ABBIED600_Rev4_ING_SP_Unit

Attribute name	Attribute type	FC	TrgOp	Value/Value range	M/O/E	Remarks
setVal	INT32	SP				
minVal	INT32	CF				
maxVal	INT32	CF				
stepSize	INT32U	CF				
cdcNs	VisString255	EX			E	
cdcName	VisString255	EX			E	
units	Struct	CF		ABBIED600_Rev3_Unit		

7.2.6 ABBIED600_Rev3_ENG_SP_CommPort_ED1

Attribute name	Attribute type	FC	TrgOp	Value/Value range	M/O/E	Remarks
setVal	Enum	SP		ABBIED600_Rev2_CommPort		
cdcNs	VisString255	EX			E	
cdcName	VisString255	EX			E	
eIp	VisString255	EX			E	

7.2.7 ABBIED600_Rev5_ENG_SP_I5CPort_ED1

Attribute name	Attribute type	FC	TrgOp	Value/Value range	M/O/E	Remarks
setVal	Enum	SP		ABBIED600_Rev1_I5CPort		
cdcNs	VisString255	EX			E	
cdcName	VisString255	EX			E	
eIp	VisString255	EX			E	

7.2.8 ABBIED600_Rev5_INC_mod_control_ED1_ED1

Attribute name	Attribute type	FC	TrgOp	Value/Value range	M/O/E	Re-marks
Oper	Struct	CO		ABBIED600_Rev1_tcOper_Mod_OnTestOff	O	
stVal	Enum	ST	dchg	ABBIED600_Rev1_BehaviourModeKind_OnTes-tOff	M	
q	Quality	ST	qchg		M	
t	Timestamp	ST			M	
ctlModel	Enum	CF		ABBIED600_Rev1_CtlModelKind_StatusDirect	M	
cdcNs	VisString255	EX			E	
cdcName	VisString255	EX			E	

blockIn	BOOLEAN	EX			E	
bits	INT8U	ST				
storVal	INT8U	SP				

7.2.9 ABBIED600_Rev5_INC_Mod_OnTestblockedOff_FD_ED1_ED1

Attribute name	Attribute type	FC	TrgOp	Value/Value range	M/O/E	Remarks
Oper	Struct	CO		ABBIED600_Rev1_tcOper_Mod_OnTestblockedOff	O	
stVal	Enum	ST	dchg	ABBIED600_Rev1_BehaviourModeKind_OnTestblockedOff	M	
q	Quality	ST	qchg		M	
t	Timestamp	ST			M	
ctlModel	Enum	CF		ABBIED600_Rev1_CtlModelKind_StatusDirect	M	
cdcNs	VisString255	EX			E	
cdcName	VisString255	EX			E	
blockIn	BOOLEAN	EX			E	
bits	INT8U	ST				
storVal	INT8U	SP				

7.2.10 ABBIED600_Rev5_INC_Mod_OnTestOff__ED1_ED1

Attribute name	Attribute type	FC	TrgOp	Value/Value range	M/O/E	Remarks
Oper	Struct	CO		ABBIED600_Rev1_tcOper_Mod_OnTestOff	O	
stVal	Enum	ST	dchg	ABBIED600_Rev1_BehaviourModeKind_OnTestOff	M	
q	Quality	ST	qchg		M	
t	Timestamp	ST			M	
ctlModel	Enum	CF		ABBIED600_Rev1_CtlModelKind_StatusDirect	M	
cdcNs	VisString255	EX			E	
cdcName	VisString255	EX			E	
blockIn	BOOLEAN	EX			E	
bits	INT8U	ST				
storVal	INT8U	SP				

7.2.11 ABBIED600_Rev5_INC_Mod_OnTest_ED1_ED1

Attribute name	Attribute type	FC	TrgOp	Value/Value range	M/O/E	Remarks
Oper	Struct	CO		ABBIED600_Rev1_tcOper_Mod_OnTest	O	
stVal	Enum	ST	dchg	ABBIED600_Rev1_BehaviourModeKind_OnTest	M	
q	Quality	ST	qchg		M	
t	Timestamp	ST			M	
ctlModel	Enum	CF		ABBIED600_Rev1_CtlModelKind_StatusDirect	M	
cdcNs	VisString255	EX			E	
cdcName	VisString255	EX			E	

blockIn	BOOLEAN	EX			E	
bits	INT8U	ST				
storVal	INT8U	SP				

7.2.12 ABBIED600_Rev5_INC_Mod_OnOff_FD_ED1_ED1

Attribute name	Attribute type	FC	TrgOp	Value/Value range	M/O/E	Remarks
Oper	Struct	CO		ABBIED600_Rev1_tcOper_Mod_OnOff	O	
stVal	Enum	ST	dchg	ABBIED600_Rev1_BehaviourModeKind_OnOff	M	
q	Quality	ST	qchg		M	
t	Timestamp	ST			M	
ctlModel	Enum	CF		ABBIED600_Rev1_CtlModelKind_StatusDirect	M	
cdcNs	VisString255	EX			E	
cdcName	VisString255	EX			E	
blockIn	BOOLEAN	EX			E	
bits	INT8U	ST				
storVal	INT8U	SP				

7.2.13 ABBIED600_Rev5_INC_Mod_OnOff_ED1_ED1

Attribute name	Attribute type	FC	TrgOp	Value/Value range	M/O/E	Remarks
Oper	Struct	CO		ABBIED600_Rev1_tcOper_Mod_OnOff	O	
stVal	Enum	ST	dchg	ABBIED600_Rev1_BehaviourModeKind_OnOff	M	
q	Quality	ST	qchg		M	
t	Timestamp	ST			M	
ctlModel	Enum	CF		ABBIED600_Rev1_CtlModelKind_StatusDirect	M	
cdcNs	VisString255	EX			E	
cdcName	VisString255	EX			E	
blockIn	BOOLEAN	EX			E	
bits	INT8U	ST				
storVal	INT8U	SP				

7.2.14 ABBIED600_Rev4_INC_Mod_On_Blk_ED1_ED1

Attribute name	Attribute type	FC	TrgOp	Value/Value range	M/O/E	Remarks
stVal	Enum	ST	dchg	BehaviourModeKind	M	
q	Quality	ST	qchg		M	
t	Timestamp	ST			M	
ctlModel	Enum	CF		ABBIED600_Rev1_CtlModelKind_Status	M	
cdcNs	VisString255	EX			E	
cdcName	VisString255	EX			E	
blockIn	BOOLEAN	EX			E	
bits	INT8U	ST				

7.2.15 ABBIED600_Rev11_INS_error_ED1

Attribute name	Attribute type	FC	TrgOp	Value/Value range	M/O/E	Remarks

stVal	Enum	ST	dchg	ABBIED600_Rev7_Health_Error	M	
q	Quality	ST	qchg		M	
t	Timestamp	ST			M	
cdcNs	VisString255	EX			E	
cdcName	VisString255	EX			E	
debug	VisString255	EX			E	
eDiag1	INT32U	EX			E	
eDiag2	INT32U	EX			E	
eDiag3	INT32U	EX			E	
eDiag4	INT32U	EX			E	

7.2.16 ABBIED600_Rev11_INS_error_ED1

Attribute name	Attribute type	FC	TrgOp	Value/Value range	M/O/E	Remarks
stVal	Enum	ST	dchg	ABBIED600_Rev7_Health_Error	M	
q	Quality	ST	qchg		M	
t	Timestamp	ST			M	
eDiag1	INT32U	EX			E	
eDiag2	INT32U	EX			E	
eDiag3	INT32U	EX			E	
eDiag4	INT32U	EX			E	

7.2.17 ABBIED600_Rev3_INS_Unit

Attribute name	Attribute type	FC	TrgOp	Value/Value range	M/O/E	Remarks
stVal	INT32	ST	dchg		M	
q	Quality	ST	qchg		M	
t	Timestamp	ST			M	
minVal	INT32	CF				
maxVal	INT32	CF				
cdcNs	VisString255	EX			E	
cdcName	VisString255	EX			E	
units	Struct	CF		ABBIED600_Rev3_Unit		

7.2.18 ABB_REX615_IINS_Auth_Pwd_1

Attribute name	Attribute type	FC	TrgOp	Value/Value range	M/O/E	Remarks
stVal	INT32	ST	dchg		M	
q	Quality	ST	qchg		M	
t	Timestamp	ST			M	
pwdChan	VisString255	EX			E	

7.2.19 ABBIED600_Rev8_LPL_LD0_LNN0_ED1

Attribute name	Attribute type	FC	TrgOp	Value/Value range	M/O/E	Remarks
vendor	VisString255	DC				
swRev	VisString255	DC				

d	VisString255	DC			M	
configRev	VisString255	DC				
paramRev	INT32	ST	dchg			
valRev	INT32	ST	dchg			
ldNs	VisString255	EX				
cdcNs	VisString255	EX			E	
cdcName	VisString255	EX			E	
eFD	VisString255	EX			E	

7.2.20 ABBIED600_Rev3_LPL_mms

Attribute name	Attribute type	FC	TrgOp	Value/Value range	M/O/E	Remarks
vendor	VisString255	DC				
swRev	VisString255	DC				
d	VisString255	DC			M	
lnNs	VisString255	EX				
cdcNs	VisString255	EX			E	
cdcName	VisString255	EX			E	
eIp1	VisString255	EX			E	
eIp2	VisString255	EX			E	
eIp3	VisString255	EX			E	
eIp4	VisString255	EX			E	
eIp5	VisString255	EX			E	

7.2.21 ABBIED600_Rev7_LPL_MBS_ED1

Attribute name	Attribute type	FC	TrgOp	Value/Value range	M/O/E	Remarks
vendor	VisString255	DC				
swRev	VisString255	DC				
d	VisString255	DC			M	
lnNs	VisString255	EX				
cdcNs	VisString255	EX			E	
cdcName	VisString255	EX			E	
clientIP	VisString255	EX			E	
ctrlStructPassWd1	VisString255	EX			E	
ctrlStructPassWd2	VisString255	EX			E	
ctrlStructPassWd3	VisString255	EX			E	
ctrlStructPassWd4	VisString255	EX			E	
ctrlStructPassWd5	VisString255	EX			E	
ctrlStructPassWd6	VisString255	EX			E	
ctrlStructPassWd7	VisString255	EX			E	
ctrlStructPassWd8	VisString255	EX			E	

7.2.22 ABBIED600_Rev5_LPL_tms_ED1

Attribute name	Attribute type	FC	TrgOp	Value/Value range	M/O/E	Remarks

vendor	VisString255	DC				
swRev	VisString255	DC				
d	VisString255	DC			M	
lnNs	VisString255	EX				
cdcNs	VisString255	EX			E	
cdcName	VisString255	EX			E	
mstrId	VisString255	EX			E	
eIpSNTPpri	VisString255	EX			E	
eIpSNTPsec	VisString255	EX			E	

7.2.23 ABBIED600_Rev5_LPL_LD0_LINF_ED1

Attribute name	Attribute type	FC	TrgOp	Value/Value range	M/O/E	Remarks
vendor	VisString255	DC				
swRev	VisString255	DC				
d	VisString255	DC			M	
lnNs	VisString255	EX				
cdcNs	VisString255	EX			E	
cdcName	VisString255	EX			E	
eConfName	VisString255	EX			E	
eBayName	VisString255	EX			E	
eDevRev	VisString255	EX			E	
eCustomer	VisString255	EX			E	
eStreet	VisString255	EX			E	
eHouseNum	VisString255	EX			E	
eZip	VisString255	EX			E	
eCity	VisString255	EX			E	
eState	VisString255	EX			E	
eCountry	VisString255	EX			E	

7.2.24 ABBIED600_Rev5_LPL_LD0_LTIM

Attribute name	Attribute type	FC	TrgOp	Value/Value range	M/O/E	Remarks
vendor	VisString255	DC				
swRev	VisString255	DC				
d	VisString255	DC			M	
lnNs	VisString255	EX				
cdcNs	VisString255	EX			E	
cdcName	VisString255	EX			E	
occDT	INT16U	EX			E	
occTypeDT	Enum	EX		ABBIED600_Rev1_setCal_occType	E	
occPerDT	Enum	EX		ABBIED600_Rev1_setCal_occPer	E	
weekDayDT	Enum	EX		ABBIED600_Rev1_setCal_weekDay	E	
monthDT	Enum	EX		ABBIED600_Rev1_setCal_month	E	
dayDT	INT8U	EX			E	

hrDT	INT8U	EX			E	
mnDT	INT8U	EX			E	
occST	INT16U	EX			E	
occTypeST	Enum	EX		ABBIED600_Rev1_setCal_occType	E	
occPerST	Enum	EX		ABBIED600_Rev1_setCal_occPer	E	
weekDayST	Enum	EX		ABBIED600_Rev1_setCal_weekDay	E	
monthST	Enum	EX		ABBIED600_Rev1_setCal_month	E	
dayST	INT8U	EX			E	
hrST	INT8U	EX			E	
mnST	INT8U	EX			E	
tmSys	VisString255	EX			E	
dateSys	VisString255	EX			E	
dayMinVal	INT8U	CF				
dayMaxVal	INT8U	CF				
hrMinVal	INT8U	CF				
hrMaxVal	INT8U	CF				
mnMinVal	INT8U	CF				
mnMaxVal	INT8U	CF				

7.2.25 ABBIED600_Rev2_LPL_LD0_LDEV_ED1

Attribute name	Attribute type	FC	TrgOp	Value/Value range	M/O/E	Remarks
vendor	VisString255	DC				
swRev	VisString255	DC				
d	VisString255	DC			M	
lnNs	VisString255	EX				
cdcNs	VisString255	EX			E	
cdcName	VisString255	EX			E	
eSwDate	VisString255	EX			E	
eSwNum	VisString255	EX			E	
eProdDate	VisString255	EX			E	
eOrdNum	VisString255	EX			E	
eMacAddr	VisString255	EX			E	
eMacAddr1	VisString255	EX			E	
eIp	VisString255	EX			E	
eIpSubNet	VisString255	EX			E	
eIpGateWay	VisString255	EX			E	
eIpFront	VisString255	EX			E	

7.2.26 ABBIED600_Rev2_LPL_1tsg_setCal

Attribute name	Attribute type	FC	TrgOp	Value/Value range	M/O/E	Remarks
vendor	VisString255	DC				
swRev	VisString255	DC				
d	VisString255	DC			M	

lnNs	VisString255	EX				
cdcNs	VisString255	EX			E	
cdcName	VisString255	EX			E	
occ	INT16U	EX			E	
occType	Enum	EX		ABBIED600_Rev1_setCal_occType	E	
occPer	Enum	EX		ABBIED600_Rev1_setCal_occPer	E	
weekDay	Enum	EX		ABBIED600_Rev1_setCal_weekDay	E	
month	Enum	EX		ABBIED600_Rev1_setCal_month	E	
day	INT8U	EX			E	
hr	INT8U	EX			E	
mn	INT8U	EX			E	
dayMinVal	INT8U	CF				
dayMaxVal	INT8U	CF				
hrMinVal	INT8U	CF				
hrMaxVal	INT8U	CF				
mnMinVal	INT8U	CF				
mnMaxVal	INT8U	CF				

7.2.27 ABBIED600_Rev6_DPL_ied

Attribute name	Attribute type	FC	TrgOp	Value/Value range	M/O/E	Remarks
vendor	VisString255	DC				
hwRev	VisString255	DC				
swRev	VisString255	DC				
serNum	VisString255	DC				
model	VisString255	DC				
location	VisString255	DC				
cdcNs	VisString255	EX			E	
cdcName	VisString255	EX			E	
name	VisString64	DC				

7.2.28 ABBIED600_Rev8_DPL_eeprom_2_ED1

Attribute name	Attribute type	FC	TrgOp	Value/Value range	M/O/E	Remarks
vendor	VisString255	DC				
hwRev	VisString255	DC				
swRev	VisString255	DC				
serNum	VisString255	DC				
model	VisString255	DC				
cdcNs	VisString255	EX			E	
cdcName	VisString255	EX			E	
eManDate	VisString255	EX			E	
eTestStatId	VisString255	EX			E	
eTesterId	VisString255	EX			E	
eTestDate	VisString255	EX			E	

eHwId	VisString255	EX			E	

7.2.29 ABBIED600_Rev5_DPL_eeprom_1_ED1

Attribute name	Attribute type	FC	TrgOp	Value/Value range	M/O/E	Remarks
vendor	VisString255	DC				
hwRev	VisString255	DC				
swRev	VisString255	DC				
serNum	VisString255	DC				
model	VisString255	DC				
cdcNs	VisString255	EX			E	
cdcName	VisString255	EX			E	
eManDate	VisString255	EX			E	
eTestStatId	VisString255	EX			E	
eTesterId	VisString255	EX			E	
eTestDate	VisString255	EX			E	
eHwId	VisString255	EX			E	

7.2.30 ABBIED600_Rev4_DPC_simple

Attribute name	Attribute type	FC	TrgOp	Value/Value range	M/O/E	Remarks
stVal	Dbpos	ST	dchg		M	
q	Quality	ST	qchg		M	
t	Timestamp	ST			M	
ctlModel	Enum	CF		ABBIED600_Rev1_CtlModelKind_Status	M	
d	VisString255	DC			O	
dU	Unicode255	DC			O	
resCmdRsp	INT32	EX			E	

7.2.31 ABBIED600_Rev8_DPC_control

Attribute name	Attribute type	FC	TrgOp	Value/Value range	M/O/E	Re-marks
SBOw	Struct	CO		ABBIED600_Rev1_tcOper	O	
Oper	Struct	CO		ABBIED600_Rev1_tcOper	O	
Cancel	Struct	CO		ABBIED600_Rev1_tcCancel	O	
stVal	Dbpos	ST	dchg		M	
q	Quality	ST	qchg		M	
t	Timestamp	ST			M	
stSeId	BOOLEAN	ST	dchg			
pulseConfig	Struct	CF		PulseConfig		
ctlModel	Enum	CF		ABBIED600_Rev1_CtlModelKind_StatusDi-rectSbo	M	
sboTimeout	INT32U	CF				
d	VisString255	DC			O	
dU	Unicode255	DC			O	

cdcNs	VisString255	EX			E	
cdcName	VisString255	EX			E	
operTimeout	INT32U	CF				
sboTimeoutStep-Size	INT32U	CF				
sboTimeoutMinVal	INT32U	CF				
sboTimeoutMaxVal	INT32U	CF				
operTimeoutMinVal	INT32U	CF				
operTimeout-MaxVal	INT32U	CF				
strSBOwOn	BOOLEAN	CO				
strSBOwOff	BOOLEAN	CO				
strOperOn	BOOLEAN	CO				
strOperOff	BOOLEAN	CO				
strCancel	BOOLEAN	CO				
resCmdRsp	INT32	EX			E	

7.2.32 ABBIED600_Rev1_LPL_RSS

Attribute name	Attribute type	FC	TrgOp	Value/Value range	M/O/E	Remarks
stValA	BOOLEAN	ST				
stValB	BOOLEAN	ST				
q	Quality	ST	qchg		M	
t	Timestamp	ST			M	
errRateA	INT32U	ST				
errRateB	INT32U	ST				
appName	VisString255	CF				
addr	VisString255	CF				
d	VisString255	DC			O	
dU	VisString255	DC			O	
cdcNs	VisString255	EX			E	
cdcName	VisString255	EX			E	
dataNs	VisString255	EX				

8 Enum type extensions

8.1 New Enum types

8.1.1 ABBIED600_Rev1_CtlModelKind_StatusDirect

Value	Description	Remarks
0	status-only	
1	direct-with-normal-security	

8.1.2 ABBIED600_Rev1_OpModSG

Value	Description	Remarks

0	Operator	SG operation mode,Operation mode for setting group change
1	Logic mode 1	SG operation mode,Operation mode for setting group change
2	Logic mode 2	SG operation mode,Operation mode for setting group change

8.1.3 ABBIED600_Rev1_CpySG

Value	Description	Remarks
1	Cancel	Copy group 1,Copy setting group 1 values into selected group
2	Copy 1 into 2	Copy group 1,Copy setting group 1 values into selected group
3	Copy 1 into 3	Copy group 1,Copy setting group 1 values into selected group
4	Copy 1 into 4	Copy group 1,Copy setting group 1 values into selected group
5	Copy 1 into 5	Copy group 1,Copy setting group 1 values into selected group
6	Copy 1 into 6	Copy group 1,Copy setting group 1 values into selected group
99	Copy 1 into all	Copy group 1,Copy setting group 1 values into selected group

8.1.4 ABBIED600_Rev1_CtlModelKind_Status

Value	Description	Remarks
0	status-only	

8.1.5 ABBIED600_Rev1_SetSvMaxDl

Value	Description	Remarks
0	1.90 1.58 ms	SMV Max Delay,SMV Maximum allowed delay
1	3.15 2.62 ms	SMV Max Delay,SMV Maximum allowed delay
2	4.40 3.67 ms	SMV Max Delay,SMV Maximum allowed delay
3	5.65 4.71 ms	SMV Max Delay,SMV Maximum allowed delay
4	6.90 5.75 ms	SMV Max Delay,SMV Maximum allowed delay

8.1.6 ABBIED600_Rev1_BlkMod

Value	Description	Remarks
0	Use Global	Blocking mode,Behaviour for function BLOCK inputs
1	Freeze timer	Blocking mode,Behaviour for function BLOCK inputs
2	Block all	Blocking mode,Behaviour for function BLOCK inputs
3	Block OPERATE output	Blocking mode,Behaviour for function BLOCK inputs

8.1.7 ABBIED600_Rev1_HzSet

Value	Description	Remarks
1	50Hz	Rated frequency,Rated frequency of the network
2	60Hz	Rated frequency,Rated frequency of the network

8.1.8 ABBIED600_Rev1_PhRotSet

Value	Description	Remarks
1	ABC	Phase rotation,Phase rotation order
2	ACB	Phase rotation,Phase rotation order

8.1.9 ABBIED600_Rev1_PhOrdSet

Value	Description	Remarks
1	ABC	Phase order mode,Selection for phase connection order
2	BCA	Phase order mode,Selection for phase connection order
3	CAB	Phase order mode,Selection for phase connection order
4	ACB	Phase order mode,Selection for phase connection order
5	CBA	Phase order mode,Selection for phase connection order
6	BAC	Phase order mode,Selection for phase connection order

8.1.10 ABBIED600_Rev1_DmdAvMod

Value	Description	Remarks
1	Linear	A demand Av mode,Current demand calculation method
2	Logarithmic	A demand Av mode,Current demand calculation method

8.1.11 ABBIED600_Rev1_dmdItrv

Value	Description	Remarks
0	1 minute	Demand interval,Interval for demand calculation
1	5 minutes	Demand interval,Interval for demand calculation
2	10 minutes	Demand interval,Interval for demand calculation
3	15 minutes	Demand interval,Interval for demand calculation
4	30 minutes	Demand interval,Interval for demand calculation
5	60 minutes	Demand interval,Interval for demand calculation
6	180 minutes	Demand interval,Interval for demand calculation

8.1.12 ABBIED600_Rev1_ModRemCtl

Value	Description	Remarks
1	Off	Remote test mode,Authority for remote activation of test mode
2	Maintenance	Remote test mode,Authority for remote activation of test mode
3	All levels	Remote test mode,Authority for remote activation of test mode

8.1.13 ABBIED600_Rev4_Languages

Value	Description	Remarks
1	English (us,iec)	Language selection,Language selection
2	English (us,ansi)	Language selection,Language selection
3	Chinese (cn,iec)	Language selection,Language selection
4	German (de,iec)	Language selection,Language selection
5	Swedish (se,iec)	Language selection,Language selection
6	Spanish (es,iec)	Language selection,Language selection
7	Russian (ru,iec)	Language selection,Language selection
8	Polish (pl,iec)	Language selection,Language selection
9	Portuguese (br,iec)	Language selection,Language selection
10	Portuguese (pt,iec)	Language selection,Language selection
11	Italian (it,iec)	Language selection,Language selection

12	Finnish (fi,iec)	Language selection,Language selection
13	French (fr,iec)	Language selection,Language selection
14	Norwegian (no,iec)	Language selection,Language selection
15	Czech (cz,iec)	Language selection,Language selection
16	Arabic (sa,iec)	Language selection,Language selection
17	Farsi (ir,iec)	Language selection,Language selection
18	Korean (kr,iec)	Language selection,Language selection
19	Flam (nl,iec)	Language selection,Language selection
20	Danish (dk, iec)	Language selection,Language selection
21	Spanish (mx,ansi)	Language selection,Language selection
22	Portuguese (br,ansi)	Language selection,Language selection
23	Turkish (tr,iec)	Language selection,Language selection
24	Croatian (hr,iec)	Language selection,Language selection
25	Ukrainian (ua,iec)	Language selection,Language selection
26	Hungarian (hu,iec)	Language selection,Language selection
27	Language 1	Language selection,Language selection
28	Language 2	Language selection,Language selection
29	Language 3	Language selection,Language selection
30	Language 4	Language selection,Language selection
31	Language 5	Language selection,Language selection
32	Language 6	Language selection,Language selection
33	Language 7	Language selection,Language selection
34	Language 8	Language selection,Language selection
35	Language 9	Language selection,Language selection
36	Language 10	Language selection,Language selection

8.1.14 ABBIED600_Rev4_LanguageFiles

Value	Description	Remarks
1	en-US-IEC	Language files,Name of the language files
2	en-US-ANSI	Language files,Name of the language files
3	zh-CN-IEC	Language files,Name of the language files
4	de-DE-IEC	Language files,Name of the language files
5	sv-SE-IEC	Language files,Name of the language files
6	es-ES-IEC	Language files,Name of the language files
7	ru-RU-IEC	Language files,Name of the language files
8	pl-PL-IEC	Language files,Name of the language files
9	pt-BR-IEC	Language files,Name of the language files
10	pt-PT-IEC	Language files,Name of the language files
11	it-IT-IEC	Language files,Name of the language files
12	fi-FI-IEC	Language files,Name of the language files
13	fr-FR-IEC	Language files,Name of the language files
14	nb-NO-IEC	Language files,Name of the language files
15	cs-CZ-IEC	Language files,Name of the language files

16	ar-SA-IEC	Language files,Name of the language files
17	fa-IR-IEC	Language files,Name of the language files
18	ko-KR-IEC	Language files,Name of the language files
19	nl-NL-IEC	Language files,Name of the language files
20	da-DK-IEC	Language files,Name of the language files
21	es-MX-ANSI	Language files,Name of the language files
22	pt-BR-ANSI	Language files,Name of the language files
23	tr-TR-IEC	Language files,Name of the language files
24	hr-HR-IEC	Language files,Name of the language files
25	uk-UA-IEC	Language files,Name of the language files
26	hu-HU-IEC	Language files,Name of the language files
27	language1	Language files,Name of the language files
28	language2	Language files,Name of the language files
29	language3	Language files,Name of the language files
30	language4	Language files,Name of the language files
31	language5	Language files,Name of the language files
32	language6	Language files,Name of the language files
33	language7	Language files,Name of the language files
34	language8	Language files,Name of the language files
35	language9	Language files,Name of the language files
36	language10	Language files,Name of the language files

8.1.15 ABBIED600_Rev1_FormatTime

Value	Description	Remarks
1	24H:MM:SS:MS	Time format,Time format
2	12H:MM:SS:MS	Time format,Time format

8.1.16 ABBIED600_Rev1_FormatDate

Value	Description	Remarks
1	DD.MM.YYYY	Date format,Date format
2	DD/MM/YYYY	Date format,Date format
3	DD-MM-YYYY	Date format,Date format
4	MM.DD.YYYY	Date format,Date format
5	MM/DD/YYYY	Date format,Date format
6	YYYY-MM-DD	Date format,Date format
7	YYYY-DD-MM	Date format,Date format
8	YYYY/DD/MM	Date format,Date format

8.1.17 ABBIED600_Rev1_NamingConvention

Value	Description	Remarks
1	IEC61850	FB naming convention,FB naming convention used in IED
2	IEC60617	FB naming convention,FB naming convention used in IED
3	IEC-ANSI	FB naming convention,FB naming convention used in IED

4	ANSI-ANSI	FB naming convention,FB naming convention used in IED
5	CHINESE	FB naming convention,FB naming convention used in IED

8.1.18 ABBIED600_Rev3_DefaultView

Value	Description	Remarks
1	Measurements	Default view,LHMI default view
2	Main menu	Default view,LHMI default view
3	SLD	Default view,LHMI default view

8.1.19 ABBIED600_Rev1_WhmiMod

Value	Description	Remarks
1	Active read only	Web HMI mode,Web HMI functionality
2	Active	Web HMI mode,Web HMI functionality
3	Disabled	Web HMI mode,Web HMI functionality

8.1.20 ABBIED600_Rev1_SLDSymbolFormat

Value	Description	Remarks
1	IEC	SLD symbol format,Single Line Diagram symbol format
2	ANSI	SLD symbol format,Single Line Diagram symbol format

8.1.21 ABBIED600_Rev1_InUseMod

Value	Description	Remarks
1	In use	Close delay mode,Selection for using delayed LHMI close
2	Not in use	Close delay mode,Selection for using delayed LHMI close

8.1.22 ABBIED600_Rev1_SetVsb

Value	Description	Remarks
1	Basic	Setting visibility,Setting visibility for HMI
2	Advanced	Setting visibility,Setting visibility for HMI

8.1.23 ABBIED600_Rev8_AuthAcs

Value	Description	Remarks
0	No activity	Viewer access,Viewer authority actions
1	Configuration change	Viewer access,Viewer authority actions
2	Firmware change	Viewer access,Viewer authority actions
3	Firmware change fail	Viewer access,Viewer authority actions
4	Attached to retrofit test case	Viewer access,Viewer authority actions
5	Removed from retrofit test case	Viewer access,Viewer authority actions
10	Setting group remote	Viewer access,Viewer authority actions
11	Setting group local	Viewer access,Viewer authority actions
20	Control remote	Viewer access,Viewer authority actions
21	Control local	Viewer access,Viewer authority actions
22	Test on	Viewer access,Viewer authority actions
23	Test off	Viewer access,Viewer authority actions

24	Reset trips	Viewer access,Viewer authority actions
30	Setting commit	Viewer access,Viewer authority actions
33	Time change	Viewer access,Viewer authority actions
40	Audit log access	Viewer access,Viewer authority actions
41	Login	Viewer access,Viewer authority actions
42	Logout	Viewer access,Viewer authority actions
43	Logout timed	Viewer access,Viewer authority actions
50	Password change	Viewer access,Viewer authority actions
51	Password/id creation	Viewer access,Viewer authority actions
52	Password/id deletion	Viewer access,Viewer authority actions
60	Firmware reset	Viewer access,Viewer authority actions
61	Audit overflow	Viewer access,Viewer authority actions
70	Violation remote	Viewer access,Viewer authority actions
71	Violation local	Viewer access,Viewer authority actions

8.1.24 ABBIED600_Rev1_AuthAcsLev

Value	Description	Remarks
1	None	Authority logging,Authority logging level
2	Configuration change	Authority logging,Authority logging level
3	Setting group	Authority logging,Authority logging level
4	Setting group, control	Authority logging,Authority logging level
5	Settings edit	Authority logging,Authority logging level
6	All	Authority logging,Authority logging level

8.1.25 ABBIED600_Rev1_AlmLedSt

Value	Description	Remarks
0	None	Programmable LED 1,Status of programmable LED 1
1	Ok	Programmable LED 1,Status of programmable LED 1
2	Warning	Programmable LED 1,Status of programmable LED 1
3	Alarm	Programmable LED 1,Status of programmable LED 1

8.1.26 ABBIED600_Rev2_LedMode

Value	Description	Remarks
0	Follow-S	Alarm mode,Alarm mode for programmable LED 1
1	Follow-F	Alarm mode,Alarm mode for programmable LED 1
2	Latched-S	Alarm mode,Alarm mode for programmable LED 1
3	LatchedAck-F-S	Alarm mode,Alarm mode for programmable LED 1

8.1.27 ABBIED600_Rev2_LedColor

Value	Description	Remarks
1	Green	Alarm colour,Colour for the alarm state of the LED
2	Red	Alarm colour,Colour for the alarm state of the LED
3	Yellow	Alarm colour,Colour for the alarm state of the LED

8.1.28 ABBIED600_Rev5_SyncSrc

Value	Description	Remarks
0	None	Synch source,Time synchronization source
1	SNTP	Synch source,Time synchronization source
2	Modbus	Synch source,Time synchronization source
3	IEEE 1588	Synch source,Time synchronization source
5	IRIG-B	Synch source,Time synchronization source
8	Line differential	Synch source,Time synchronization source
9	DNP	Synch source,Time synchronization source
16	IEC60870-5-101	Synch source,Time synchronization source
17	IEC60870-5-103	Synch source,Time synchronization source
18	IEC60870-5-104	Synch source,Time synchronization source

8.1.29 ABBIED600_Rev3_TmSrc

Value	Description	Remarks
0	Not defined	Synch source,Current time source
1	SNTP primary	Synch source,Current time source
2	SNTP secondary	Synch source,Current time source
3	SNTP tertiary or further	Synch source,Current time source
4	IEEE 1588 master	Synch source,Current time source
5	IEEE 1588 slave	Synch source,Current time source
6	IEEE 1588 further	Synch source,Current time source
7	IRIG-B	Synch source,Current time source
8	DNP 3.0	Synch source,Current time source
9	Modbus	Synch source,Current time source
10	SPA	Synch source,Current time source
11	LON VATS	Synch source,Current time source
12	LON other	Synch source,Current time source
13	PPS	Synch source,Current time source
14	Minute pulse	Synch source,Current time source
15	local GPS	Synch source,Current time source
16	IEC60870-5-101	Synch source,Current time source
17	IEC60870-5-103	Synch source,Current time source
18	IEC60870-5-104	Synch source,Current time source
19	EXT	Synch source,Current time source
20	LHMI	Synch source,Current time source
21	Line differential	Synch source,Current time source
99	Free running, locally generated	Synch source,Current time source

8.1.30 ABBIED600_Rev1_PTPTmSrc

Value	Description	Remarks
1	Atomic clock	Grandmaster time Src,GrandMaster timeSource enum according to PTPv2
2	GPS	Grandmaster time Src,GrandMaster timeSource enum according to PTPv2

3	Terrestial radio	Grandmaster time Src,GrandMaster timeSource enum according to PTPv2
4	PTP	Grandmaster time Src,GrandMaster timeSource enum according to PTPv2
5	NTP	Grandmaster time Src,GrandMaster timeSource enum according to PTPv2
6	Hand set	Grandmaster time Src,GrandMaster timeSource enum according to PTPv2
7	Other	Grandmaster time Src,GrandMaster timeSource enum according to PTPv2
8	Internal oscil.	Grandmaster time Src,GrandMaster timeSource enum according to PTPv2

8.1.31 ABBIED600_Rev1_PTPClkAcc

Value	Description	Remarks
1	25 ns	Grandmaster accuracy,Grandmaster clockAccuracy enum according to PTPv2
2	100 ns	Grandmaster accuracy,Grandmaster clockAccuracy enum according to PTPv2
3	250 ns	Grandmaster accuracy,Grandmaster clockAccuracy enum according to PTPv2
4	1 us	Grandmaster accuracy,Grandmaster clockAccuracy enum according to PTPv2
5	2.5 us	Grandmaster accuracy,Grandmaster clockAccuracy enum according to PTPv2
6	10 us	Grandmaster accuracy,Grandmaster clockAccuracy enum according to PTPv2
7	25 us	Grandmaster accuracy,Grandmaster clockAccuracy enum according to PTPv2
8	100 us	Grandmaster accuracy,Grandmaster clockAccuracy enum according to PTPv2
9	250 us	Grandmaster accuracy,Grandmaster clockAccuracy enum according to PTPv2
10	1 ms	Grandmaster accuracy,Grandmaster clockAccuracy enum according to PTPv2
11	2.5 ms	Grandmaster accuracy,Grandmaster clockAccuracy enum according to PTPv2
12	10 ms	Grandmaster accuracy,Grandmaster clockAccuracy enum according to PTPv2
13	25 ms	Grandmaster accuracy,Grandmaster clockAccuracy enum according to PTPv2
14	100 ms	Grandmaster accuracy,Grandmaster clockAccuracy enum according to PTPv2
15	250 ms	Grandmaster accuracy,Grandmaster clockAccuracy enum according to PTPv2
16	1 s	Grandmaster accuracy,Grandmaster clockAccuracy enum according to PTPv2
17	10 s	Grandmaster accuracy,Grandmaster clockAccuracy enum according to PTPv2
18	more than 10 s	Grandmaster accuracy,Grandmaster clockAccuracy enum according to PTPv2

8.1.32 ABBIED600_Rev1_PTPAnncMod

Value	Description	Remarks
1	Basic IEEE1588	PTP announce mode,PTP announce frame mode
2	Power Profile	PTP announce mode,PTP announce frame mode

8.1.33 ABBIED600_Rev2_StrPhSel

Value	Description	Remarks
1	1 out of 3	Num of start phases,Number of phases required for operate activation
2	2 out of 3	Num of start phases,Number of phases required for operate activation
3	3 out of 3	Num of start phases,Number of phases required for operate activation
4	Exactly 1 of 3	Num of start phases,Number of phases required for operate activation
5	Exactly 2 of 3	Num of start phases,Number of phases required for operate activation
6	Exactly 3 of 3	Num of start phases,Number of phases required for operate activation

8.1.34 ABBIED600_Rev2_MeasMod

Value	Description	Remarks
1	RMS	Measurement mode,Selects used measurement mode
2	DFT	Measurement mode,Selects used measurement mode
3	Peak-to-Peak	Measurement mode,Selects used measurement mode
4	P-to-P + backup	Measurement mode,Selects used measurement mode
5	Wide P-to-P	Measurement mode,Selects used measurement mode

8.1.35 ABBIED600_Rev2_TestProKind

Value	Description	Remarks
0	Reset	DPHLPDOC1,Test control for outputs
1	Activate START	DPHLPDOC1,Test control for outputs
2	Deactive START	DPHLPDOC1,Test control for outputs
3	Activate ST_A	DPHLPDOC1,Test control for outputs
4	Deactive ST_A	DPHLPDOC1,Test control for outputs
5	Activate ST_B	DPHLPDOC1,Test control for outputs
6	Deactive ST_B	DPHLPDOC1,Test control for outputs
7	Activate ST_C	DPHLPDOC1,Test control for outputs
8	Deactive ST_C	DPHLPDOC1,Test control for outputs
9	Activate OPERATE	DPHLPDOC1,Test control for outputs
10	Deactive OPERATE	DPHLPDOC1,Test control for outputs
11	Activate OPR_A	DPHLPDOC1,Test control for outputs
12	Deactive OPR_A	DPHLPDOC1,Test control for outputs
13	Activate OPR_B	DPHLPDOC1,Test control for outputs
14	Deactive OPR_B	DPHLPDOC1,Test control for outputs
15	Activate OPR_C	DPHLPDOC1,Test control for outputs
16	Deactive OPR_C	DPHLPDOC1,Test control for outputs
17	Activate ALARM	DPHLPDOC1,Test control for outputs
18	Deactive ALARM	DPHLPDOC1,Test control for outputs
19	Activate WARNING	DPHLPDOC1,Test control for outputs
20	Deactive WARNING	DPHLPDOC1,Test control for outputs
21	Activate BLK_CLOSE	DPHLPDOC1,Test control for outputs
22	Deactive BLK_CLOSE	DPHLPDOC1,Test control for outputs
23	Activate BLK_EF	DPHLPDOC1,Test control for outputs
24	Deactive BLK_EF	DPHLPDOC1,Test control for outputs
25	Activate ARC_FLT_DET	DPHLPDOC1,Test control for outputs
26	Deactive ARC_FLT_DET	DPHLPDOC1,Test control for outputs
27	Activate STR_LS_LOC	DPHLPDOC1,Test control for outputs
28	Deactive STR_LS_LOC	DPHLPDOC1,Test control for outputs
29	Activate STR_LS_REM	DPHLPDOC1,Test control for outputs
30	Deactive STR_LS_REM	DPHLPDOC1,Test control for outputs
31	Activate OPR_LS_LOC	DPHLPDOC1,Test control for outputs

32	Deactive OPR_LS_LOC	DPHLPDOC1,Test control for outputs
33	Activate OPR_LS_REM	DPHLPDOC1,Test control for outputs
34	Deactive OPR_LS_REM	DPHLPDOC1,Test control for outputs
35	Activate OPR_HS_LOC	DPHLPDOC1,Test control for outputs
36	Deactive OPR_HS_LOC	DPHLPDOC1,Test control for outputs
37	Activate OPR_HS_REM	DPHLPDOC1,Test control for outputs
38	Deactive OPR_HS_REM	DPHLPDOC1,Test control for outputs
39	Activate RSTD2H_LOC	DPHLPDOC1,Test control for outputs
40	Deactive RSTD2H_LOC	DPHLPDOC1,Test control for outputs
41	Activate RSTD2H_REM	DPHLPDOC1,Test control for outputs
42	Deactive RSTD2H_REM	DPHLPDOC1,Test control for outputs
43	Activate PROT_ACTIVE	DPHLPDOC1,Test control for outputs
44	Deactive PROT_ACTIVE	DPHLPDOC1,Test control for outputs
45	Activate RESTORE	DPHLPDOC1,Test control for outputs
46	Deactive RESTORE	DPHLPDOC1,Test control for outputs
47	Activate RELEASE	DPHLPDOC1,Test control for outputs
48	Deactive RELEASE	DPHLPDOC1,Test control for outputs
49	Activate OPR_IIT	DPHLPDOC1,Test control for outputs
50	Deactive OPR_IIT	DPHLPDOC1,Test control for outputs
51	Activate OPR_STALL	DPHLPDOC1,Test control for outputs
52	Deactive OPR_STALL	DPHLPDOC1,Test control for outputs
53	Activate MOT_START	DPHLPDOC1,Test control for outputs
54	Deactive MOT_START	DPHLPDOC1,Test control for outputs
55	Activate LOCK_START	DPHLPDOC1,Test control for outputs
56	Deactive LOCK_START	DPHLPDOC1,Test control for outputs
57	Activate BLK_RESTART	DPHLPDOC1,Test control for outputs
58	Deactive BLK_RESTART	DPHLPDOC1,Test control for outputs
59	Activate OPR_LS	DPHLPDOC1,Test control for outputs
60	Deactive OPR_LS	DPHLPDOC1,Test control for outputs
61	Activate OPR_HS	DPHLPDOC1,Test control for outputs
62	Deactive OPR_HS	DPHLPDOC1,Test control for outputs
63	Activate BLKD2H	DPHLPDOC1,Test control for outputs
64	Deactive BLKD2H	DPHLPDOC1,Test control for outputs
65	Activate BLKD5H	DPHLPDOC1,Test control for outputs
66	Deactive BLKD5H	DPHLPDOC1,Test control for outputs
67	Activate BLKDWAV	DPHLPDOC1,Test control for outputs
68	Deactive BLKDWAV	DPHLPDOC1,Test control for outputs
69	Activate OPR_UFRQ	DPHLPDOC1,Test control for outputs
70	Deactive OPR_UFRQ	DPHLPDOC1,Test control for outputs
71	Activate OPR_OFRQ	DPHLPDOC1,Test control for outputs
72	Deactive OPR_OFRQ	DPHLPDOC1,Test control for outputs
73	Activate OPR_FRG	DPHLPDOC1,Test control for outputs

74	Deactive OPR_FRG	DPHLPDOC1,Test control for outputs
75	Activate ST_UFRQ	DPHLPDOC1,Test control for outputs
76	Deactive ST_UFRQ	DPHLPDOC1,Test control for outputs
77	Activate ST_OFRQ	DPHLPDOC1,Test control for outputs
78	Deactive ST_OFRQ	DPHLPDOC1,Test control for outputs
79	Activate ST_FRG	DPHLPDOC1,Test control for outputs
80	Deactive ST_FRG	DPHLPDOC1,Test control for outputs
81	Activate ST_REST	DPHLPDOC1,Test control for outputs
82	Deactive ST_REST	DPHLPDOC1,Test control for outputs
83	Activate INT_BLKD	DPHLPDOC1,Test control for outputs
84	Deactive INT_BLKD	DPHLPDOC1,Test control for outputs
85	Activate COOL_ACTIVE	DPHLPDOC1,Test control for outputs
86	Deactive COOL_ACTIVE	DPHLPDOC1,Test control for outputs
87	Activate OPERATE_Z1	DPHLPDOC1,Test control for outputs
88	Deactive OPERATE_Z1	DPHLPDOC1,Test control for outputs
89	Activate OPERATE_Z2	DPHLPDOC1,Test control for outputs
90	Deactive OPERATE_Z2	DPHLPDOC1,Test control for outputs
91	Activate OPERATE_Z3	DPHLPDOC1,Test control for outputs
92	Deactive OPERATE_Z3	DPHLPDOC1,Test control for outputs
93	Activate OPERATE_Z4	DPHLPDOC1,Test control for outputs
94	Deactive OPERATE_Z4	DPHLPDOC1,Test control for outputs
95	Activate OPERATE_Z5	DPHLPDOC1,Test control for outputs
96	Deactive OPERATE_Z5	DPHLPDOC1,Test control for outputs
97	Activate START_Z1	DPHLPDOC1,Test control for outputs
98	Deactive START_Z1	DPHLPDOC1,Test control for outputs
99	Activate START_Z2	DPHLPDOC1,Test control for outputs
100	Deactive START_Z2	DPHLPDOC1,Test control for outputs
101	Activate START_Z3	DPHLPDOC1,Test control for outputs
102	Deactive START_Z3	DPHLPDOC1,Test control for outputs
103	Activate START_Z4	DPHLPDOC1,Test control for outputs
104	Deactive START_Z4	DPHLPDOC1,Test control for outputs
105	Activate START_Z5	DPHLPDOC1,Test control for outputs
106	Deactive START_Z5	DPHLPDOC1,Test control for outputs
107	Activate LODDSR_GFC	DPHLPDOC1,Test control for outputs
108	Deactive LODDSR_GFC	DPHLPDOC1,Test control for outputs
109	Activate START_GFC	DPHLPDOC1,Test control for outputs
110	Deactive START_GFC	DPHLPDOC1,Test control for outputs
111	Activate ST_ALARM	DPHLPDOC1,Test control for outputs
112	Deactive ST_ALARM	DPHLPDOC1,Test control for outputs
113	Activate OPR_OVLOD	DPHLPDOC1,Test control for outputs
114	Deactive OPR_OVLOD	DPHLPDOC1,Test control for outputs
115	Activate ST_OVLOD	DPHLPDOC1,Test control for outputs

116	Deactive ST_OVLOD	DPHLPDOC1,Test control for outputs
117	Activate OPR_UN_I	DPHLPDOC1,Test control for outputs
118	Deactive OPR_UN_I	DPHLPDOC1,Test control for outputs
119	Activate ST_UN_I	DPHLPDOC1,Test control for outputs
120	Deactive ST_UN_I	DPHLPDOC1,Test control for outputs
121	Activate INTR_EF	DPHLPDOC1,Test control for outputs
122	Deactive INTR_EF	DPHLPDOC1,Test control for outputs
123	Activate PEAK_IND	DPHLPDOC1,Test control for outputs
124	Deactive PEAK_IND	DPHLPDOC1,Test control for outputs

8.1.36 ABBIED600_Rev1_AResSigSel

Value	Description	Remarks
1	Measured Io	Io signal Sel,Selection for used Io signal
2	Calculated Io	Io signal Sel,Selection for used Io signal

8.1.37 ABBIED600_Rev1_OpModEF

Value	Description	Remarks
1	Phase angle	Operation mode,Operation criteria
2	IoSin	Operation mode,Operation criteria
3	IoCos	Operation mode,Operation criteria
4	Phase angle 80	Operation mode,Operation criteria
5	Phase angle 88	Operation mode,Operation criteria

8.1.38 ABBIED600_Rev1_VResSigSel

Value	Description	Remarks
1	Measured Uo	Uo signal Sel,Selection for used Uo signal
2	Calculated Uo	Uo signal Sel,Selection for used Uo signal

8.1.39 ABBIED600_Rev2_VSel

Value	Description	Remarks
1	phase-to-earth	Voltage selection,Parameter to select phase or phase-to-phase voltages
2	phase-to-phase	Voltage selection,Parameter to select phase or phase-to-phase voltages
3	pos sequence	Voltage selection,Parameter to select phase or phase-to-phase voltages

8.1.40 ABBIED600_Rev1_TypTmRs

Value	Description	Remarks
1	Freeze Op timer	Type of time reset,Selection of time reset
2	Decrease Op timer	Type of time reset,Selection of time reset

8.1.41 ABBIED600_Rev1_OpModProHz

Value	Description	Remarks
1	Freq<	Operation mode,Frequency protection operation mode selection
2	Freq>	Operation mode,Frequency protection operation mode selection
3	df/dt	Operation mode,Frequency protection operation mode selection

4	Freq< + df/dt	Operation mode,Frequency protection operation mode selection
5	Freq> + df/dt	Operation mode,Frequency protection operation mode selection
6	Freq< OR df/dt	Operation mode,Frequency protection operation mode selection
7	Freq> OR df/dt	Operation mode,Frequency protection operation mode selection
8	Freq< AND df/dt	Operation mode,Frequency protection operation mode selection
9	Freq> AND df/dt	Operation mode,Frequency protection operation mode selection
10	Freq< OR Freq>	Operation mode,Frequency protection operation mode selection

8.1.42 ABBIED600_Rev1_buTripMode

Value	Description	Remarks
1	2 out of 4	CB failure trip mode,Backup trip current check mode
2	1 out of 3	CB failure trip mode,Backup trip current check mode
3	1 out of 4	CB failure trip mode,Backup trip current check mode

8.1.43 ABBIED600_Rev1_StrLtcMod

Value	Description	Remarks
1	Rising edge	Start latching mode,Start reset delayed or immediately
2	Level sensitive	Start latching mode,Start reset delayed or immediately

8.1.44 ABBIED600_Rev1_TrOutMod

Value	Description	Remarks
1	Non-latched	Trip output mode,Select the operation mode for trip output
2	Latched	Trip output mode,Select the operation mode for trip output
3	Lockout	Trip output mode,Select the operation mode for trip output

8.1.45 ABBIED600_Rev1_OpModComp

Value	Description	Remarks
1	Over	Operation mode,Operation mode
2	Under	Operation mode,Operation mode

8.1.46 ABBIED600_Rev3_TestSpvnKind

Value	Description	Remarks
0	Reset	SSCBR1,Test control for outputs
1	Activate START	SSCBR1,Test control for outputs
2	Deactive START	SSCBR1,Test control for outputs
3	Activate OPERATE	SSCBR1,Test control for outputs
4	Deactive OPERATE	SSCBR1,Test control for outputs
5	Activate ALARM	SSCBR1,Test control for outputs
6	Deactive ALARM	SSCBR1,Test control for outputs
7	Activate WARNING	SSCBR1,Test control for outputs
8	Deactive WARNING	SSCBR1,Test control for outputs
9	Act. TRV_T_OP_ALM	SSCBR1,Test control for outputs
10	Deact. TRV_T_OP_ALM	SSCBR1,Test control for outputs

11	Act. TRV_T_CL_ALM	SSCBR1,Test control for outputs
12	Deact. TRV_T_CL_ALM	SSCBR1,Test control for outputs
13	Act. DIFTRVTOPALM	SSCBR1,Test control for outputs
14	Deact. DIFTRVTOPALM	SSCBR1,Test control for outputs
15	Act. DIFTRVTCLALM	SSCBR1,Test control for outputs
16	Deact. DIFTRVTCLALM	SSCBR1,Test control for outputs
17	Activate SPR_CHR_ALM	SSCBR1,Test control for outputs
18	Deactive SPR_CHR_ALM	SSCBR1,Test control for outputs
19	Activate OPR_ALM	SSCBR1,Test control for outputs
20	Deactive OPR_ALM	SSCBR1,Test control for outputs
21	Activate OPR_LO	SSCBR1,Test control for outputs
22	Deactive OPR_LO	SSCBR1,Test control for outputs
23	Activate IPOW_ALM	SSCBR1,Test control for outputs
24	Deactive IPOW_ALM	SSCBR1,Test control for outputs
25	Activate IPOW_LO	SSCBR1,Test control for outputs
26	Deactive IPOW_LO	SSCBR1,Test control for outputs
27	Activate CB_LIFE_ALM	SSCBR1,Test control for outputs
28	Deactive CB_LIFE_ALM	SSCBR1,Test control for outputs
29	Activate MON_ALM	SSCBR1,Test control for outputs
30	Deactive MON_ALM	SSCBR1,Test control for outputs
31	Activate PRES_ALM	SSCBR1,Test control for outputs
32	Deactive PRES_ALM	SSCBR1,Test control for outputs
33	Activate PRES_LO	SSCBR1,Test control for outputs
34	Deactive PRES_LO	SSCBR1,Test control for outputs
35	Activate OPENPOS	SSCBR1,Test control for outputs
36	Deactive OPENPOS	SSCBR1,Test control for outputs
37	Activate INVALIDPOS	SSCBR1,Test control for outputs
38	Deactive INVALIDPOS	SSCBR1,Test control for outputs
39	Activate CLOSEPOS	SSCBR1,Test control for outputs
40	Deactive CLOSEPOS	SSCBR1,Test control for outputs
41	Activate FAIL	SSCBR1,Test control for outputs
42	Deactive FAIL	SSCBR1,Test control for outputs
43	Activate FUSEF_3PH	SSCBR1,Test control for outputs
44	Deactive FUSEF_3PH	SSCBR1,Test control for outputs
45	Activate FUSEF_U	SSCBR1,Test control for outputs
46	Deactive FUSEF_U	SSCBR1,Test control for outputs
47	Activate FAIL_CTGRP1	SSCBR1,Test control for outputs
48	Deactive FAIL_CTGRP1	SSCBR1,Test control for outputs
49	Activate FAIL_CTGRP2	SSCBR1,Test control for outputs
50	Deactive FAIL_CTGRP2	SSCBR1,Test control for outputs
51	Activate FAIL_CTGRP3	SSCBR1,Test control for outputs
52	Deactive FAIL_CTGRP3	SSCBR1,Test control for outputs

53	Activate U_LIVE	SSCBR1,Test control for outputs
54	Deactive U_LIVE	SSCBR1,Test control for outputs
55	Activate U_DEAD	SSCBR1,Test control for outputs
56	Deactive U_DEAD	SSCBR1,Test control for outputs
57	Activate U_A_AB_LIVE	SSCBR1,Test control for outputs
58	Deactive U_A_AB_LIVE	SSCBR1,Test control for outputs
59	Activate U_B_BC_LIVE	SSCBR1,Test control for outputs
60	Deactive U_B_BC_LIVE	SSCBR1,Test control for outputs
61	Activate U_C_CA_LIVE	SSCBR1,Test control for outputs
62	Deactive U_C_CA_LIVE	SSCBR1,Test control for outputs
63	Activate U_A_AB_DEAD	SSCBR1,Test control for outputs
64	Deactive U_A_AB_DEAD	SSCBR1,Test control for outputs
65	Activate U_B_BC_DEAD	SSCBR1,Test control for outputs
66	Deactive U_B_BC_DEAD	SSCBR1,Test control for outputs
67	Activate U_C_CA_DEAD	SSCBR1,Test control for outputs
68	Deactive U_C_CA_DEAD	SSCBR1,Test control for outputs
69	Activate WARNING_AUX	SSCBR1,Test control for outputs
70	Deactive WARNING_AUX	SSCBR1,Test control for outputs
71	Activate WARNING_I	SSCBR1,Test control for outputs
72	Deactive WARNING_I	SSCBR1,Test control for outputs

8.1.47 ABBIED600_Rev1_TrvClcMod

Value	Description	Remarks
1	From Cmd to Pos	Travel time Clc mode,Travel time calculation mode selection
2	From Pos to Pos	Travel time Clc mode,Travel time calculation mode selection

8.1.48 ABBIED600_Rev1_DirMod2

Value	Description	Remarks
1	Forward	Active power Dir,Direction of active power flow: Forward, Reverse
2	Reverse	Active power Dir,Direction of active power flow: Forward, Reverse

8.1.49 ABBIED600_Rev1_DefHzSel

Value	Description	Remarks
1	Nominal	Def frequency Sel,Default frequency selection
2	Zero	Def frequency Sel,Default frequency selection

8.1.50 ABBIED600_Rev1_DmdWinMod

Value	Description	Remarks
1	Sliding	Demand window,Demand calculation window type
2	Non-sliding	Demand window,Demand calculation window type

8.1.51 ABBIED600_Rev2_PhSv

Value	Description	Remarks

1	Ph A	Phase supervision,Monitored voltage phase
2	Ph B	Phase supervision,Monitored voltage phase
3	Ph A + B	Phase supervision,Monitored voltage phase
4	Ph C	Phase supervision,Monitored voltage phase
5	Ph A + C	Phase supervision,Monitored voltage phase
6	Ph B + C	Phase supervision,Monitored voltage phase
7	Ph A + B + C	Phase supervision,Monitored voltage phase
8	Pos sequence	Phase supervision,Monitored voltage phase

8.1.52 ABBIED600_Rev1_OpModPh

Value	Description	Remarks
1	Three Phase	Phase mode,Three/Single phase mode
2	Single Phase	Phase mode,Three/Single phase mode

8.1.53 ABBIED600_Rev2_VVaTyp

Value	Description	Remarks
0	No variation	Variation enable,Enable variation type
1	Swell	Variation enable,Enable variation type
2	Dip	Variation enable,Enable variation type
3	Swell + dip	Variation enable,Enable variation type
4	Interruption	Variation enable,Enable variation type
5	Swell + Int	Variation enable,Enable variation type
6	Dip + Int	Variation enable,Enable variation type
7	Swell+dip+Int	Variation enable,Enable variation type

8.1.54 ABBIED600_Rev1_TrgModPQ

Value	Description	Remarks
1	Single	Trigger mode,Specifies the observation period triggering mode
2	Periodic	Trigger mode,Specifies the observation period triggering mode
3	Continuous	Trigger mode,Specifies the observation period triggering mode

8.1.55 ABBIED600_Rev1_ObsPerSel

Value	Description	Remarks
1	1 Hour	Obs period selection,Observation period for unbalance calculation
2	12 Hours	Obs period selection,Observation period for unbalance calculation
3	1 Day	Obs period selection,Observation period for unbalance calculation
4	7 Days	Obs period selection,Observation period for unbalance calculation
5	User defined	Obs period selection,Observation period for unbalance calculation

8.1.56 ABBIED600_Rev1_TestOthKind

Value	Description	Remarks
0	Reset	VSQVUB1,Test control for outputs
1	Activate START	VSQVUB1,Test control for outputs

2	Deactive START	VSQVUB1,Test control for outputs
3	Activate OPERATE	VSQVUB1,Test control for outputs
4	Deactive OPERATE	VSQVUB1,Test control for outputs
5	Activate SWELLST	VSQVUB1,Test control for outputs
6	Deactive SWELLST	VSQVUB1,Test control for outputs
7	Activate DIPST	VSQVUB1,Test control for outputs
8	Deactive DIPST	VSQVUB1,Test control for outputs
9	Activate INTST	VSQVUB1,Test control for outputs
10	Deactive INTST	VSQVUB1,Test control for outputs
11	Activate MN_UNB_AL	VSQVUB1,Test control for outputs
12	Deactive MN_UNB_AL	VSQVUB1,Test control for outputs
13	Activate PCT_UNB_AL	VSQVUB1,Test control for outputs
14	Deactive PCT_UNB_AL	VSQVUB1,Test control for outputs
15	Activate OBS_PR_ACT	VSQVUB1,Test control for outputs
16	Deactive OBS_PR_ACT	VSQVUB1,Test control for outputs

8.1.57 ABBIED600_Rev2_CtlMod

Value	Description	Remarks
1	Voltage control	Control mode,Type of control
2	Input control	Control mode,Type of control
3	Voltage and input Ctl	Control mode,Type of control
4	No Volt dependency	Control mode,Type of control

8.1.58 ABBIED600_Rev2_OpModTEF

Value	Description	Remarks
1	Intermittent EF	Operation mode,Operation criteria
2	Transient EF	Operation mode,Operation criteria
3	General EF	Operation mode,Operation criteria
4	Alarming EF	Operation mode,Operation criteria

8.1.59 ABBIED600_Rev1_OpQtySel

Value	Description	Remarks
1	Adaptive	Operating quantity,Operating quantity selection
2	Amplitude	Operating quantity,Operating quantity selection

8.1.60 ABBIED600_Rev1_AutoManMod

Value	Description	Remarks
1	Disabled	Restore mode,Mode of operation of restore functionality
2	Auto	Restore mode,Mode of operation of restore functionality
3	Manual	Restore mode,Mode of operation of restore functionality

8.1.61 ABBIED600_Rev1_RecOp

Value	Description	Remarks

1	Off	Reclosing operation,Reclosing operation (Off, External Ctl / On)
2	External Ctl	Reclosing operation,Reclosing operation (Off, External Ctl / On)
3	On	Reclosing operation,Reclosing operation (Off, External Ctl / On)

8.1.62 ABBIED600_Rev1_TermPrio

Value	Description	Remarks
1	None	Terminal priority,Terminal priority
2	Low (follower)	Terminal priority,Terminal priority
3	High (master)	Terminal priority,Terminal priority

8.1.63 ABBIED600_Rev1_ProCrdMod

Value	Description	Remarks
1	No condition	Protection crd mode,Protection coordination mode
2	AR inoperative	Protection crd mode,Protection coordination mode
3	CB close manual	Protection crd mode,Protection coordination mode
4	AR inop, CB man	Protection crd mode,Protection coordination mode
5	Always	Protection crd mode,Protection coordination mode

8.1.64 ABBIED600_Rev1_AutoIniCnd

Value	Description	Remarks
1	Not allowed	Auto initiation cnd,Auto initiation condition
2	When sync fails	Auto initiation cnd,Auto initiation condition
3	CB doesn't close	Auto initiation cnd,Auto initiation condition
4	Both	Auto initiation cnd,Auto initiation condition

8.1.65 ABBIED600_Rev3_TestCtlKind

Value	Description	Remarks
0	Reset	DARREC1,Test control for outputs
1	Activate START	DARREC1,Test control for outputs
2	Deactive START	DARREC1,Test control for outputs
3	Activate ALARM	DARREC1,Test control for outputs
4	Deactive ALARM	DARREC1,Test control for outputs
5	Activate OPEN_CB	DARREC1,Test control for outputs
6	Deactive OPEN_CB	DARREC1,Test control for outputs
7	Activate CLOSE_CB	DARREC1,Test control for outputs
8	Deactive CLOSE_CB	DARREC1,Test control for outputs
9	Activate CMD_WAIT	DARREC1,Test control for outputs
10	Deactive CMD_WAIT	DARREC1,Test control for outputs
11	Activate PROT_CRD	DARREC1,Test control for outputs
12	Deactive PROT_CRD	DARREC1,Test control for outputs
13	Activate INPRO	DARREC1,Test control for outputs
14	Deactive INPRO	DARREC1,Test control for outputs
15	Activate LOCKED	DARREC1,Test control for outputs

16	Deactive LOCKED	DARREC1,Test control for outputs
17	Activate UNSUC_RECL	DARREC1,Test control for outputs
18	Deactive UNSUC_RECL	DARREC1,Test control for outputs
19	Activate AR_ON	DARREC1,Test control for outputs
20	Deactive AR_ON	DARREC1,Test control for outputs
21	Activate READY	DARREC1,Test control for outputs
22	Deactive READY	DARREC1,Test control for outputs
23	Activate RAISE	DARREC1,Test control for outputs
24	Deactive RAISE	DARREC1,Test control for outputs
25	Activate LOWER	DARREC1,Test control for outputs
26	Deactive LOWER	DARREC1,Test control for outputs
27	Activate PAR_FAIL	DARREC1,Test control for outputs
28	Deactive PAR_FAIL	DARREC1,Test control for outputs
29	Activate SYNC_INPRO	DARREC1,Test control for outputs
30	Deactive SYNC_INPRO	DARREC1,Test control for outputs
31	Activate SYNC_OK	DARREC1,Test control for outputs
32	Deactive SYNC_OK	DARREC1,Test control for outputs
33	Activate CL_FAIL_AL	DARREC1,Test control for outputs
34	Deactive CL_FAIL_AL	DARREC1,Test control for outputs
35	Activate CMD_FAIL_AL	DARREC1,Test control for outputs
36	Deactive CMD_FAIL_AL	DARREC1,Test control for outputs
37	Activate LLDB	DARREC1,Test control for outputs
38	Deactive LLDB	DARREC1,Test control for outputs
39	Activate LLLB	DARREC1,Test control for outputs
40	Deactive LLLB	DARREC1,Test control for outputs
41	Activate DLLB	DARREC1,Test control for outputs
42	Deactive DLLB	DARREC1,Test control for outputs
43	Activate DLDB	DARREC1,Test control for outputs
44	Deactive DLDB	DARREC1,Test control for outputs
45	Activate ACTIVE	DARREC1,Test control for outputs
46	Deactive ACTIVE	DARREC1,Test control for outputs
47	Activate OPEN_CB1	DARREC1,Test control for outputs
48	Deactive OPEN_CB1	DARREC1,Test control for outputs
49	Activate CLOSE_CB1	DARREC1,Test control for outputs
50	Deactive CLOSE_CB1	DARREC1,Test control for outputs
51	Activate OPEN_CB2	DARREC1,Test control for outputs
52	Deactive OPEN_CB2	DARREC1,Test control for outputs
53	Activate CLOSE_CB2	DARREC1,Test control for outputs
54	Deactive CLOSE_CB2	DARREC1,Test control for outputs
55	Activate BLKD_AL	DARREC1,Test control for outputs
56	Deactive BLKD_AL	DARREC1,Test control for outputs

8.1.66 ABBIED600_Rev1_OpModSC

Value	Description	Remarks
1	Off	Synchro check mode,Synchro check operation mode
2	Synchronous	Synchro check mode,Synchro check operation mode
3	Asynchronous	Synchro check mode,Synchro check operation mode

8.1.67 ABBIED600_Rev1_OpModCtrl

Value	Description	Remarks
1	Continuous	Control mode,Selection of synchro check command or Continuous control mode
2	Command	Control mode,Selection of synchro check command or Continuous control mode

8.1.68 ABBIED600_Rev1_EnergSt

Value	Description	Remarks
0	Unknown	ENERG_STATE,Energization state of Line and Bus
1	Both Live	ENERG_STATE,Energization state of Line and Bus
2	Live L, Dead B	ENERG_STATE,Energization state of Line and Bus
3	Dead L, Live B	ENERG_STATE,Energization state of Line and Bus
4	Both Dead	ENERG_STATE,Energization state of Line and Bus

8.1.69 ABBIED600_Rev1_OpModStUp

Value	Description	Remarks
1	IIt	Operation mode,Motor start-up operation mode
2	IIt, CB	Operation mode,Motor start-up operation mode
3	IIt + stall	Operation mode,Motor start-up operation mode
4	IIt + stall, CB	Operation mode,Motor start-up operation mode

8.1.70 ABBIED600_Rev1_EnvTmpMod

Value	Description	Remarks
1	FLC Only	Env temperature mode,Mode of measuring ambient temperature
2	Use input	Env temperature mode,Mode of measuring ambient temperature
3	Set Amb Temp	Env temperature mode,Mode of measuring ambient temperature

8.1.71 ABBIED600_Rev1_CTConnTyp

Value	Descrip-tion	Remarks
1	Type 1	CT connection type,CT connection type. Determined by the directions of the connected current transformers
2	Type 2	CT connection type,CT connection type. Determined by the directions of the connected current transformers

8.1.72 ABBIED600_Rev1_VPhSel

Value	Description	Remarks
1	A or AB	Phase selection,Parameter for phase selection
2	B or BC	Phase selection,Parameter for phase selection

3	C or CA	Phase selection,Parameter for phase selection

8.1.73 ABBIED600_Rev2_Wnd1Typ

Value	Description	Remarks
1	Y	Winding 1 type,Connection of the HV side windings
2	YN	Winding 1 type,Connection of the HV side windings
3	D	Winding 1 type,Connection of the HV side windings
4	Z	Winding 1 type,Connection of the HV side windings
5	ZN	Winding 1 type,Connection of the HV side windings

8.1.74 ABBIED600_Rev2_Wnd2Typ

Value	Description	Remarks
1	y	Winding 2 type,Connection of the LV side windings
2	yn	Winding 2 type,Connection of the LV side windings
3	d	Winding 2 type,Connection of the LV side windings
4	z	Winding 2 type,Connection of the LV side windings
5	zn	Winding 2 type,Connection of the LV side windings

8.1.75 ABBIED600_Rev1_ClkNum

Value	Descrip-tion	Remarks
0	Clk Num 0	Clock number,Setting the phase shift between HV and LV with clock number for connection group compensation (e.g. Dyn11 -> 11)
1	Clk Num 1	Clock number,Setting the phase shift between HV and LV with clock number for connection group compensation (e.g. Dyn11 -> 11)
2	Clk Num 2	Clock number,Setting the phase shift between HV and LV with clock number for connection group compensation (e.g. Dyn11 -> 11)
4	Clk Num 4	Clock number,Setting the phase shift between HV and LV with clock number for connection group compensation (e.g. Dyn11 -> 11)
5	Clk Num 5	Clock number,Setting the phase shift between HV and LV with clock number for connection group compensation (e.g. Dyn11 -> 11)
6	Clk Num 6	Clock number,Setting the phase shift between HV and LV with clock number for connection group compensation (e.g. Dyn11 -> 11)
7	Clk Num 7	Clock number,Setting the phase shift between HV and LV with clock number for connection group compensation (e.g. Dyn11 -> 11)
8	Clk Num 8	Clock number,Setting the phase shift between HV and LV with clock number for connection group compensation (e.g. Dyn11 -> 11)
10	Clk Num 10	Clock number,Setting the phase shift between HV and LV with clock number for connection group compensation (e.g. Dyn11 -> 11)
11	Clk Num 11	Clock number,Setting the phase shift between HV and LV with clock number for connection group compensation (e.g. Dyn11 -> 11)

8.1.76 ABBIED600_Rev3_ZroAElm

Value	Description	Remarks
1	Not eliminated	Zro A elimination,Elimination of the zero-sequence current
2	Winding 1	Zro A elimination,Elimination of the zero-sequence current

3	Winding 2	Zro A elimination,Elimination of the zero-sequence current
4	Winding 1 and 2	Zro A elimination,Elimination of the zero-sequence current
5	Winding 3	Zro A elimination,Elimination of the zero-sequence current
6	Winding 1 and 3	Zro A elimination,Elimination of the zero-sequence current
7	Winding 2 and 3	Zro A elimination,Elimination of the zero-sequence current
8	Winding 1, 2, 3	Zro A elimination,Elimination of the zero-sequence current

8.1.77 ABBIED600_Rev1_WndSel

Value	Description	Remarks
1	Not in use	Tapped winding,The winding where the tap changer is connected to
2	Winding 1	Tapped winding,The winding where the tap changer is connected to
3	Winding 2	Tapped winding,The winding where the tap changer is connected to
4	Winding 3	Tapped winding,The winding where the tap changer is connected to

8.1.78 ABBIED600_Rev1_PwrMeasMod

Value	Description	Remarks
1	PhsA, PhsB, PhsC	Measurement mode,Selection of power calculation method
2	Arone	Measurement mode,Selection of power calculation method
3	Pos Seq	Measurement mode,Selection of power calculation method
4	PhsAB	Measurement mode,Selection of power calculation method
5	PhsBC	Measurement mode,Selection of power calculation method
6	PhsCA	Measurement mode,Selection of power calculation method
7	PhsA	Measurement mode,Selection of power calculation method
8	PhsB	Measurement mode,Selection of power calculation method
9	PhsC	Measurement mode,Selection of power calculation method

8.1.79 ABBIED600_Rev1_BCMod

Value	Description	Remarks
1	NAT2INT	Operation mode,Operation mode selection
2	BCD2INT	Operation mode,Operation mode selection
3	GRAY2INT	Operation mode,Operation mode selection

8.1.80 ABBIED600_Rev1_ARtgSec

Value	Description	Remarks
1	0.2A	Secondary current,Rated secondary current
2	1A	Secondary current,Rated secondary current
3	5A	Secondary current,Rated secondary current

8.1.81 ABBIED600_Rev2_ConnType

Value	Description	Remarks
1	Wye	VT connection,Voltage transducer measurement connection
2	Delta	VT connection,Voltage transducer measurement connection
3	U12	VT connection,Voltage transducer measurement connection

4	UL1	VT connection,Voltage transducer measurement connection

8.1.82 ABBIED600_Rev1_AnInpType

Value	Description	Remarks
1	Voltage trafo	Voltage input type,Type of the voltage input
2	Current trafo	Voltage input type,Type of the voltage input
3	CVD sensor	Voltage input type,Type of the voltage input
4	Rogowski sensor	Voltage input type,Type of the voltage input

8.1.83 ABBIED600_Rev1_SenInMod

Value	Description	Remarks
1	Not in use	Input mode,Analogue input mode
2	Resistance	Input mode,Analogue input mode
5	0..20mA	Input mode,Analogue input mode
10	Pt100	Input mode,Analogue input mode
11	Pt250	Input mode,Analogue input mode
20	Ni100	Input mode,Analogue input mode
21	Ni120	Input mode,Analogue input mode
22	Ni250	Input mode,Analogue input mode
30	Cu10	Input mode,Analogue input mode

8.1.84 ABBIED600_Rev1_FibMod

Value	Description	Remarks
0	No fiber	Fiber mode,Fiber mode
2	Fiber optic	Fiber mode,Fiber mode

8.1.85 ABBIED600_Rev1_SerMod

Value	Description	Remarks
1	RS485 2Wire	Serial mode,Serial mode
2	RS485 4Wire	Serial mode,Serial mode
3	RS232 no handshake	Serial mode,Serial mode
4	RS232 with handshake	Serial mode,Serial mode

8.1.86 ABBIED600_Rev1_BaudRate

Value	Description	Remarks
1	300	Baudrate,Baudrate
2	600	Baudrate,Baudrate
3	1200	Baudrate,Baudrate
4	2400	Baudrate,Baudrate
5	4800	Baudrate,Baudrate
6	9600	Baudrate,Baudrate
7	19200	Baudrate,Baudrate
8	38400	Baudrate,Baudrate

9	57600	Baudrate,Baudrate
10	115200	Baudrate,Baudrate

8.1.87 ABBIED600_Rev2_EthPortMod

Value	Description	Remarks
0	Off	Port 1 mode,Ethernet port mode
1	On	Port 1 mode,Ethernet port mode

8.1.88 ABBIED600_Rev1_PHIZMod

Value	Description	Remarks
1	Grounded	System type,System Type
2	Ungrounded	System type,System Type

8.1.89 ABBIED600_Rev1_OpModArc

Value	Description	Remarks
1	Light+current	Operation mode,Operation mode
2	Light only	Operation mode,Operation mode
3	BI controlled	Operation mode,Operation mode

8.1.90 ABBIED600_Rev1_EFAlg

Value	Description	Remarks
1	Load compensation	EF algorithm Sel,Selection for PhE-loop calculation algorithm
2	Load modelling	EF algorithm Sel,Selection for PhE-loop calculation algorithm

8.1.91 ABBIED600_Rev1_EFAlgASel

Value	Description	Remarks
1	Io based	EF algorithm Cur Sel,Selection for earth-fault current model
2	I2 based	EF algorithm Cur Sel,Selection for earth-fault current model

8.1.92 ABBIED600_Rev4_TestProRlKind

Value	Description	Remarks
0	Reset	SCEFRFLO1,Test control for outputs
1	Activate OPERATE	SCEFRFLO1,Test control for outputs
2	Deactive OPERATE	SCEFRFLO1,Test control for outputs
3	Activate CB_FAULT_AL	SCEFRFLO1,Test control for outputs
4	Deactive CB_FAULT_AL	SCEFRFLO1,Test control for outputs
5	Activate TRBU	SCEFRFLO1,Test control for outputs
6	Deactive TRBU	SCEFRFLO1,Test control for outputs
7	Activate TRRET	SCEFRFLO1,Test control for outputs
8	Deactive TRRET	SCEFRFLO1,Test control for outputs
9	Activate BLK2H	SCEFRFLO1,Test control for outputs
10	Deactive BLK2H	SCEFRFLO1,Test control for outputs
11	Activate BLK2H_A	SCEFRFLO1,Test control for outputs
12	Deactive BLK2H_A	SCEFRFLO1,Test control for outputs

13	Activate BLK2H_B	SCEFRFLO1,Test control for outputs
14	Deactive BLK2H_B	SCEFRFLO1,Test control for outputs
15	Activate BLK2H_C	SCEFRFLO1,Test control for outputs
16	Deactive BLK2H_C	SCEFRFLO1,Test control for outputs
17	Activate TRIP	SCEFRFLO1,Test control for outputs
18	Deactive TRIP	SCEFRFLO1,Test control for outputs
19	Activate CL_LKOUT	SCEFRFLO1,Test control for outputs
20	Deactive CL_LKOUT	SCEFRFLO1,Test control for outputs
21	Activate OPR_Z_EXTN	SCEFRFLO1,Test control for outputs
22	Deactive OPR_Z_EXTN	SCEFRFLO1,Test control for outputs
23	Activate OPR_IRV	SCEFRFLO1,Test control for outputs
24	Deactive OPR_IRV	SCEFRFLO1,Test control for outputs
25	Activate OPR_WEI	SCEFRFLO1,Test control for outputs
26	Deactive OPR_WEI	SCEFRFLO1,Test control for outputs
27	Activate ECHO	SCEFRFLO1,Test control for outputs
28	Deactive ECHO	SCEFRFLO1,Test control for outputs
29	Activate CR	SCEFRFLO1,Test control for outputs
30	Deactive CR	SCEFRFLO1,Test control for outputs
31	Activate CS	SCEFRFLO1,Test control for outputs
32	Deactive CS	SCEFRFLO1,Test control for outputs
33	Activate CRL	SCEFRFLO1,Test control for outputs
34	Deactive CRL	SCEFRFLO1,Test control for outputs
35	Activate LCG	SCEFRFLO1,Test control for outputs
36	Deactive LCG	SCEFRFLO1,Test control for outputs
37	Activate OPR_LOSSLOAD	SCEFRFLO1,Test control for outputs
38	Deactive OPR_LOSSLOAD	SCEFRFLO1,Test control for outputs
39	Activate ALARM	SCEFRFLO1,Test control for outputs
40	Deactive ALARM	SCEFRFLO1,Test control for outputs
41	Activate CS_PRM	SCEFRFLO1,Test control for outputs
42	Deactive CS_PRM	SCEFRFLO1,Test control for outputs
43	Act. CS_BLOCKING	SCEFRFLO1,Test control for outputs
44	Deact. CS_BLOCKING	SCEFRFLO1,Test control for outputs
45	Act. CS_INTER_TR	SCEFRFLO1,Test control for outputs
46	Deact. CS_INTER_TR	SCEFRFLO1,Test control for outputs

8.1.93 ABBIED600_Rev1_PhVMeas

Value	Description	Remarks
1	Accurate	Phase voltage Meas,Phase voltage measurement principle
2	Ph-to-ph without Uo	Phase voltage Meas,Phase voltage measurement principle

8.1.94 ABBIED600_Rev1_CubAlmMod

Value	Description	Remarks
1	Normal	Alarm mode,Mode of operation for Alarm stage

2	Element counter	Alarm mode,Mode of operation for Alarm stage

8.1.95 ABBIED600_Rev1_FuLoct

Value	Description	Remarks
1	Internal	Fuse location,Location of capacitor fuse
2	External	Fuse location,Location of capacitor fuse

8.1.96 ABBIED600_Rev1_VCrtSel

Value	Description	Remarks
1	Highest Ph-to-E	Voltage selection,Parameter to select voltage for curve monitoring
2	Lowest Ph-to-E	Voltage selection,Parameter to select voltage for curve monitoring
3	Highest Ph-to-Ph	Voltage selection,Parameter to select voltage for curve monitoring
4	Lowest Ph-to-Ph	Voltage selection,Parameter to select voltage for curve monitoring
5	Positive Seq	Voltage selection,Parameter to select voltage for curve monitoring

8.1.97 ABBIED600_Rev1_ZMeasMod

Value	Description	Remarks
1	1Phase-to-earth	Impedance Meas mode,Select voltage and currents for impedance calculation
2	1Phase-to-phase	Impedance Meas mode,Select voltage and currents for impedance calculation
3	3Phase-to-earth	Impedance Meas mode,Select voltage and currents for impedance calculation
4	3Phase-to-phase	Impedance Meas mode,Select voltage and currents for impedance calculation
5	Pos sequence	Impedance Meas mode,Select voltage and currents for impedance calculation

8.1.98 ABBIED600_Rev3_OpModSetATCC

Value	Description	Remarks
1	Manual	Operation mode,The operation mode
2	Auto single	Operation mode,The operation mode
3	Auto parallel	Operation mode,The operation mode
4	Input control	Operation mode,The operation mode
5	Command	Operation mode,The operation mode

8.1.99 ABBIED600_Rev1_ManBlkType

Value	Description	Remarks
1	Custom disabled	Custom Man blocking,Customized manual blocking
2	OC	Custom Man blocking,Customized manual blocking
3	UV	Custom Man blocking,Customized manual blocking
4	OC, UV	Custom Man blocking,Customized manual blocking
5	EXT	Custom Man blocking,Customized manual blocking
6	OC, EXT	Custom Man blocking,Customized manual blocking
7	UV, EXT	Custom Man blocking,Customized manual blocking
8	OC, UV, EXT	Custom Man blocking,Customized manual blocking

8.1.100 ABBIED600_Rev1_TimerOn

Value	Description	Remarks

0	Timer off	TIMER_STS,Timer T1, T2 or fast lower timer active
1	Lower timer1 on	TIMER_STS,Timer T1, T2 or fast lower timer active
2	Raise timer1 on	TIMER_STS,Timer T1, T2 or fast lower timer active
3	Lower timer2 on	TIMER_STS,Timer T1, T2 or fast lower timer active
4	Raise timer2 on	TIMER_STS,Timer T1, T2 or fast lower timer active
5	Fast lower T on	TIMER_STS,Timer T1, T2 or fast lower timer active

8.1.101 ABBIED600_Rev1_OpModATCC

Value	Description	Remarks
0	Not in use	OPR_MODE_STS,The acting operation mode of the function block
1	Manual	OPR_MODE_STS,The acting operation mode of the function block
2	Auto single	OPR_MODE_STS,The acting operation mode of the function block
3	Auto master	OPR_MODE_STS,The acting operation mode of the function block
4	Auto follower	OPR_MODE_STS,The acting operation mode of the function block
5	MCC	OPR_MODE_STS,The acting operation mode of the function block
6	NRP	OPR_MODE_STS,The acting operation mode of the function block

8.1.102 ABBIED600_Rev1_AlmReas

Value	Description	Remarks
0	No alarm	ALARM_REAS,Status and reason for alarm
1	Cmd error	ALARM_REAS,Status and reason for alarm
2	TCO error	ALARM_REAS,Status and reason for alarm
3	Cmd + TCO err	ALARM_REAS,Status and reason for alarm
4	Pump error	ALARM_REAS,Status and reason for alarm
5	Pump + cmd err	ALARM_REAS,Status and reason for alarm
6	Pump + TCO err	ALARM_REAS,Status and reason for alarm
7	Pmp+TCO+cmd err	ALARM_REAS,Status and reason for alarm

8.1.103 ABBIED600_Rev1_FllwFlt

Value	Description	Remarks
0	No failed followers	FAIL_FLLW,Failed followers
1	Follower 1	FAIL_FLLW,Failed followers
2	Follower 2	FAIL_FLLW,Failed followers
3	Followers 1+2	FAIL_FLLW,Failed followers
4	Follower 3	FAIL_FLLW,Failed followers
5	Followers 1+3	FAIL_FLLW,Failed followers
6	Followers 2+3	FAIL_FLLW,Failed followers
7	Followers 1+2+3	FAIL_FLLW,Failed followers

8.1.104 ABBIED600_Rev1_ParUnits

Value	Description	Remarks
0	No parall units	PAR_UNIT_MCC,Parallel units included in MCC calculation
1	Trafo 1	PAR_UNIT_MCC,Parallel units included in MCC calculation

2	Trafo 2	PAR_UNIT_MCC,Parallel units included in MCC calculation
3	Trafos 1 and 2	PAR_UNIT_MCC,Parallel units included in MCC calculation
4	Trafo 3	PAR_UNIT_MCC,Parallel units included in MCC calculation
5	Trafos 1 and 3	PAR_UNIT_MCC,Parallel units included in MCC calculation
6	Trafos 2 and 3	PAR_UNIT_MCC,Parallel units included in MCC calculation
7	Trafos 1+2+3	PAR_UNIT_MCC,Parallel units included in MCC calculation

8.1.105 ABBIED600_Rev3_CmdRsp

Value	Description	Remarks
0	No commands	Command response,Latest command response
1	Select open	Command response,Latest command response
2	Select close	Command response,Latest command response
3	Operate open	Command response,Latest command response
4	Operate close	Command response,Latest command response
5	Direct open	Command response,Latest command response
6	Direct close	Command response,Latest command response
7	Cancel	Command response,Latest command response
8	Position reached	Command response,Latest command response
9	Position timeout	Command response,Latest command response
10	Object status only	Command response,Latest command response
11	Object direct	Command response,Latest command response
12	Object select	Command response,Latest command response
13	RL local allowed	Command response,Latest command response
14	RL remote allowed	Command response,Latest command response
15	RL off	Command response,Latest command response
16	Function off	Command response,Latest command response
17	Function blocked	Command response,Latest command response
18	Command progress	Command response,Latest command response
19	Select timeout	Command response,Latest command response
20	Missing authority	Command response,Latest command response
21	Close not enabled	Command response,Latest command response
22	Open not enabled	Command response,Latest command response
23	Internal fault	Command response,Latest command response
24	Already close	Command response,Latest command response
25	Wrong client	Command response,Latest command response
26	RL station allowed	Command response,Latest command response
27	RL change	Command response,Latest command response
28	Abortion by trip	Command response,Latest command response

8.1.106 ABBIED600_Rev3_LocKeyHMI

Value	Description	Remarks
0	Off	LR state,LR state monitoring
1	Local	LR state,LR state monitoring

2	Remote	LR state,LR state monitoring
3	Station	LR state,LR state monitoring
4	L+R	LR state,LR state monitoring
5	L+S	LR state,LR state monitoring
6	L+S+R	LR state,LR state monitoring
7	S+R	LR state,LR state monitoring

8.1.107 ABBIED600_Rev1_LocRemMod

Value	Description	Remarks
1	LR key	LR control,LR control through LR key or binary input
2	Binary input	LR control,LR control through LR key or binary input

8.1.108 ABBIED600_Rev1_StaLevSet

Value	Description	Remarks
1	L,R	Station authority,Control command originator category usage
2	L,S,R	Station authority,Control command originator category usage
3	L,R,L+R	Station authority,Control command originator category usage
4	L,S,S+R,L+S,L+S+R	Station authority,Control command originator category usage

8.1.109 ABBIED600_Rev1_EStoRte

Value	Description	Remarks
8	8 samples / cycle	Storage rate,Storage rate for waveform recordings in samples per cycle
16	16 samples / cycle	Storage rate,Storage rate for waveform recordings in samples per cycle
32	32 samples / cycle	Storage rate,Storage rate for waveform recordings in samples per cycle

8.1.110 ABBIED600_Rev1_EStoMod

Value	Description	Remarks
0	Waveform	Stor. mode periodic,Storage mode selection (waveform / trend) for periodic trigger
1	Trend / cycle	Stor. mode periodic,Storage mode selection (waveform / trend) for periodic trigger

8.1.111 ABBIED600_Rev4_RadrChNum

Value	Description	Remarks
0	Disabled	Channel selection,Select a signal, which will be recorded by this channel
1	Io	Channel selection,Select a signal, which will be recorded by this channel
2	IL1	Channel selection,Select a signal, which will be recorded by this channel
3	IL2	Channel selection,Select a signal, which will be recorded by this channel
4	IL3	Channel selection,Select a signal, which will be recorded by this channel
5	IoB	Channel selection,Select a signal, which will be recorded by this channel
6	IL1B	Channel selection,Select a signal, which will be recorded by this channel
7	IL2B	Channel selection,Select a signal, which will be recorded by this channel
8	IL3B	Channel selection,Select a signal, which will be recorded by this channel
9	Uo	Channel selection,Select a signal, which will be recorded by this channel
10	U1	Channel selection,Select a signal, which will be recorded by this channel

11	U2	Channel selection,Select a signal, which will be recorded by this channel
12	U3	Channel selection,Select a signal, which will be recorded by this channel
13	UoB	Channel selection,Select a signal, which will be recorded by this channel
14	U1B	Channel selection,Select a signal, which will be recorded by this channel
15	U2B	Channel selection,Select a signal, which will be recorded by this channel
16	U3B	Channel selection,Select a signal, which will be recorded by this channel
17	CIo	Channel selection,Select a signal, which will be recorded by this channel
18	SI1	Channel selection,Select a signal, which will be recorded by this channel
19	SI2	Channel selection,Select a signal, which will be recorded by this channel
20	SU0	Channel selection,Select a signal, which will be recorded by this channel
21	SU1	Channel selection,Select a signal, which will be recorded by this channel
22	SU2	Channel selection,Select a signal, which will be recorded by this channel
23	CIoB	Channel selection,Select a signal, which will be recorded by this channel
24	SI1B	Channel selection,Select a signal, which will be recorded by this channel
25	SI2B	Channel selection,Select a signal, which will be recorded by this channel
26	SU0B	Channel selection,Select a signal, which will be recorded by this channel
27	SU1B	Channel selection,Select a signal, which will be recorded by this channel
28	SU2B	Channel selection,Select a signal, which will be recorded by this channel
29	U12	Channel selection,Select a signal, which will be recorded by this channel
30	U23	Channel selection,Select a signal, which will be recorded by this channel
31	U31	Channel selection,Select a signal, which will be recorded by this channel
32	UL1	Channel selection,Select a signal, which will be recorded by this channel
33	UL2	Channel selection,Select a signal, which will be recorded by this channel
34	UL3	Channel selection,Select a signal, which will be recorded by this channel
35	U12B	Channel selection,Select a signal, which will be recorded by this channel
36	U23B	Channel selection,Select a signal, which will be recorded by this channel
37	U31B	Channel selection,Select a signal, which will be recorded by this channel
38	UL1B	Channel selection,Select a signal, which will be recorded by this channel
39	UL2B	Channel selection,Select a signal, which will be recorded by this channel
40	UL3B	Channel selection,Select a signal, which will be recorded by this channel
41	U1T	Channel selection,Select a signal, which will be recorded by this channel
42	U2T	Channel selection,Select a signal, which will be recorded by this channel
43	U3T	Channel selection,Select a signal, which will be recorded by this channel
44	PD	Channel selection,Select a signal, which will be recorded by this channel
45	IoC	Channel selection,Select a signal, which will be recorded by this channel
46	IL1C	Channel selection,Select a signal, which will be recorded by this channel
47	IL2C	Channel selection,Select a signal, which will be recorded by this channel
48	IL3C	Channel selection,Select a signal, which will be recorded by this channel
49	CIoC	Channel selection,Select a signal, which will be recorded by this channel
50	SI1C	Channel selection,Select a signal, which will be recorded by this channel
51	SI2C	Channel selection,Select a signal, which will be recorded by this channel
52	U1C	Channel selection,Select a signal, which will be recorded by this channel

53	U1D	Channel selection,Select a signal, which will be recorded by this channel

8.2 Extented Enum types

8.2.1 ABBIED600_Rev1_HealthKind

Value	Description	Remarks
-2	Waiting	
-1	Test	
1	Ok	
2	Warning	
3	Alarm	

8.2.2 ABBIED600_Rev1_PhaseFaultDirectionKind

Value	Description	Remarks
-1	both	
0	unknown	
1	forward	
2	backward	

8.2.3 ABBIED600_Rev1_CurveCharKind

Value	Description	Remarks
1	ANSI Extremely Inverse	Operating curve type,Selection of time delay curve type,ANSI Ext. inv.
2	ANSI Very Inverse	Operating curve type,Selection of time delay curve type,ANSI Very inv.
3	ANSI Normal Inverse	Operating curve type,Selection of time delay curve type,ANSI Norm. inv.
4	ANSI Moderate Inverse	Operating curve type,Selection of time delay curve type,ANSI Mod. inv.
5	ANSI Definite Time	Operating curve type,Selection of time delay curve type,ANSI Def. Time
6	Long-Time Extremely Inverse	Operating curve type,Selection of time delay curve type,L.T.E. inv.
7	Long-Time Very Inverse	Operating curve type,Selection of time delay curve type,L.T.V. inv.
8	Long-Time Inverse	Operating curve type,Selection of time delay curve type,L.T. inv.
9	IEC Normal Inverse	Operating curve type,Selection of time delay curve type,IEC Norm. inv.
10	IEC Very Inverse	Operating curve type,Selection of time delay curve type,IEC Very inv.
11	IEC Inverse	Operating curve type,Selection of time delay curve type,IEC inv.
12	IEC Extremely Inverse	Operating curve type,Selection of time delay curve type,IEC Ext. inv.
13	IEC Short-Time Inverse	Operating curve type,Selection of time delay curve type,IEC S.T. inv.
14	IEC Long-Time Inverse	Operating curve type,Selection of time delay curve type,IEC L.T. inv.
15	IEC Definite Time	Operating curve type,Selection of time delay curve type,IEC Def. Time
16	Reserved	Operating curve type,Selection of time delay curve type
17	Polynom 1	Operating curve type,Selection of time delay curve type,Programmable
18	Polynom 2	Operating curve type,Selection of time delay curve type,RI type
19	Polynom 3	Operating curve type,Selection of time delay curve type,RD type
20	Polynom 4	Operating curve type,Selection of time delay curve type
21	Polynom 5	Operating curve type,Selection of time delay curve type
22	Polynom 6	Operating curve type,Selection of time delay curve type

23	Polynom 7	Operating curve type,Selection of time delay curve type
24	Polynom 8	Operating curve type,Selection of time delay curve type
25	Polynom 9	Operating curve type,Selection of time delay curve type
26	Polynom 10	Operating curve type,Selection of time delay curve type
27	Polynom 11	Operating curve type,Selection of time delay curve type
28	Polynom 12	Operating curve type,Selection of time delay curve type
29	Polynom 13	Operating curve type,Selection of time delay curve type
30	Polynom 14	Operating curve type,Selection of time delay curve type
31	Polynom 15	Operating curve type,Selection of time delay curve type
32	Polynom 16	Operating curve type,Selection of time delay curve type
33	Multiline 1	Operating curve type,Selection of time delay curve type
34	Multiline 2	Operating curve type,Selection of time delay curve type
35	Multiline 3	Operating curve type,Selection of time delay curve type
36	Multiline 4	Operating curve type,Selection of time delay curve type
37	Multiline 5	Operating curve type,Selection of time delay curve type
38	Multiline 6	Operating curve type,Selection of time delay curve type
39	Multiline 7	Operating curve type,Selection of time delay curve type
40	Multiline 8	Operating curve type,Selection of time delay curve type
41	Multiline 9	Operating curve type,Selection of time delay curve type
42	Multiline 10	Operating curve type,Selection of time delay curve type
43	Multiline 11	Operating curve type,Selection of time delay curve type
44	Multiline 12	Operating curve type,Selection of time delay curve type
45	Multiline 13	Operating curve type,Selection of time delay curve type
46	Multiline 14	Operating curve type,Selection of time delay curve type
47	Multiline 15	Operating curve type,Selection of time delay curve type
48	Multiline 16	Operating curve type,Selection of time delay curve type
-1	Recloser 1	Operating curve type,Selection of time delay curve type
-2	Recloser 2	Operating curve type,Selection of time delay curve type
-3	Recloser 3	Operating curve type,Selection of time delay curve type
-4	Recloser 4	Operating curve type,Selection of time delay curve type
-5	Recloser 5	Operating curve type,Selection of time delay curve type
-6	Recloser 6	Operating curve type,Selection of time delay curve type
-7	Recloser 7	Operating curve type,Selection of time delay curve type
-8	Recloser 8	Operating curve type,Selection of time delay curve type
-9	Recloser 8+	Operating curve type,Selection of time delay curve type
-10	Recloser 8*	Operating curve type,Selection of time delay curve type
-11	Recloser 9	Operating curve type,Selection of time delay curve type
-12	Recloser 11	Operating curve type,Selection of time delay curve type
-13	Recloser 13	Operating curve type,Selection of time delay curve type
-14	Recloser 14	Operating curve type,Selection of time delay curve type
-15	Recloser 15	Operating curve type,Selection of time delay curve type
-16	Recloser 16	Operating curve type,Selection of time delay curve type

-17	Recloser 17	Operating curve type,Selection of time delay curve type
-18	Recloser 18	Operating curve type,Selection of time delay curve type
-19	Recloser A	Operating curve type,Selection of time delay curve type
-20	Recloser B	Operating curve type,Selection of time delay curve type
-21	Recloser C	Operating curve type,Selection of time delay curve type
-22	Recloser D	Operating curve type,Selection of time delay curve type
-23	Recloser E	Operating curve type,Selection of time delay curve type
-24	Recloser F	Operating curve type,Selection of time delay curve type
-25	Recloser G	Operating curve type,Selection of time delay curve type
-26	Recloser H	Operating curve type,Selection of time delay curve type
-27	Recloser J	Operating curve type,Selection of time delay curve type
-28	Recloser Kg	Operating curve type,Selection of time delay curve type
-29	Recloser Kp	Operating curve type,Selection of time delay curve type
-30	Recloser L	Operating curve type,Selection of time delay curve type
-31	Recloser M	Operating curve type,Selection of time delay curve type
-32	Recloser N	Operating curve type,Selection of time delay curve type
-33	Recloser P	Operating curve type,Selection of time delay curve type
-34	Recloser R	Operating curve type,Selection of time delay curve type
-35	Recloser T	Operating curve type,Selection of time delay curve type
-36	Recloser V	Operating curve type,Selection of time delay curve type
-37	Recloser W	Operating curve type,Selection of time delay curve type
-38	Recloser Y	Operating curve type,Selection of time delay curve type
-39	Recloser Z	Operating curve type,Selection of time delay curve type

8.2.4 ABBIED600_Rev20_TstOutKind

Value	Description	Remarks
0	Reset	PHLPTOC1,Test control for outputs
1	Activate START	PHLPTOC1,Test control for outputs
2	Deactive START	PHLPTOC1,Test control for outputs
3	Activate ST_A	PHLPTOC1,Test control for outputs
4	Deactive ST_A	PHLPTOC1,Test control for outputs
5	Activate ST_B	PHLPTOC1,Test control for outputs
6	Deactive ST_B	PHLPTOC1,Test control for outputs
7	Activate ST_C	PHLPTOC1,Test control for outputs
8	Deactive ST_C	PHLPTOC1,Test control for outputs
9	Activate OPERATE	PHLPTOC1,Test control for outputs
10	Deactive OPERATE	PHLPTOC1,Test control for outputs
11	Activate OPR_A	PHLPTOC1,Test control for outputs
12	Deactive OPR_A	PHLPTOC1,Test control for outputs
13	Activate OPR_B	PHLPTOC1,Test control for outputs
14	Deactive OPR_B	PHLPTOC1,Test control for outputs
15	Activate OPR_C	PHLPTOC1,Test control for outputs
16	Deactive OPR_C	PHLPTOC1,Test control for outputs

17	Activate ALARM	PHLPTOC1,Test control for outputs
18	Deactive ALARM	PHLPTOC1,Test control for outputs
19	Activate WARNING	PHLPTOC1,Test control for outputs
20	Deactive WARNING	PHLPTOC1,Test control for outputs
21	Activate BLK_CLOSE	PHLPTOC1,Test control for outputs
22	Deactive BLK_CLOSE	PHLPTOC1,Test control for outputs
23	reserved1	PHLPTOC1,Test control for outputs
24	reserved2	PHLPTOC1,Test control for outputs
25	Activate CB_FAULT_AL	PHLPTOC1,Test control for outputs
26	Deactive CB_FAULT_AL	PHLPTOC1,Test control for outputs
27	Activate TRBU	PHLPTOC1,Test control for outputs
28	Deactive TRBU	PHLPTOC1,Test control for outputs
29	Activate TRRET	PHLPTOC1,Test control for outputs
30	Deactive TRRET	PHLPTOC1,Test control for outputs
31	Activate BLK_EF	PHLPTOC1,Test control for outputs
32	Deactive BLK_EF	PHLPTOC1,Test control for outputs
33	Activate ARC_FLT_DET	PHLPTOC1,Test control for outputs
34	Deactive ARC_FLT_DET	PHLPTOC1,Test control for outputs
35	Activate BLK2H	PHLPTOC1,Test control for outputs
36	Deactive BLK2H	PHLPTOC1,Test control for outputs
37	Activate BLK2H_A	PHLPTOC1,Test control for outputs
38	Deactive BLK2H_A	PHLPTOC1,Test control for outputs
39	Activate BLK2H_B	PHLPTOC1,Test control for outputs
40	Deactive BLK2H_B	PHLPTOC1,Test control for outputs
41	Activate BLK2H_C	PHLPTOC1,Test control for outputs
42	Deactive BLK2H_C	PHLPTOC1,Test control for outputs
43	Activate TRIP	PHLPTOC1,Test control for outputs
44	Deactive TRIP	PHLPTOC1,Test control for outputs
45	Activate CL_LKOUT	PHLPTOC1,Test control for outputs
46	Deactive CL_LKOUT	PHLPTOC1,Test control for outputs
47	Activate OPEN_CB	PHLPTOC1,Test control for outputs
48	Deactive OPEN_CB	PHLPTOC1,Test control for outputs
49	Activate CLOSE_CB	PHLPTOC1,Test control for outputs
50	Deactive CLOSE_CB	PHLPTOC1,Test control for outputs
51	Activate CMD_WAIT	PHLPTOC1,Test control for outputs
52	Deactive CMD_WAIT	PHLPTOC1,Test control for outputs
53	Activate PROT_CRD	PHLPTOC1,Test control for outputs
54	Deactive PROT_CRD	PHLPTOC1,Test control for outputs
55	Activate INPRO	PHLPTOC1,Test control for outputs
56	Deactive INPRO	PHLPTOC1,Test control for outputs
57	Activate LOCKED	PHLPTOC1,Test control for outputs
58	Deactive LOCKED	PHLPTOC1,Test control for outputs

59	Activate UNSUC_RECL	PHLPTOC1,Test control for outputs
60	Deactive UNSUC_RECL	PHLPTOC1,Test control for outputs
61	Activate AR_ON	PHLPTOC1,Test control for outputs
62	Deactive AR_ON	PHLPTOC1,Test control for outputs
63	Act. TRV_T_OP_ALM	PHLPTOC1,Test control for outputs
64	Deact. TRV_T_OP_ALM	PHLPTOC1,Test control for outputs
65	Act. TRV_T_CL_ALM	PHLPTOC1,Test control for outputs
66	Deact. TRV_T_CL_ALM	PHLPTOC1,Test control for outputs
67	Act. DIFTRVTOPALM	PHLPTOC1,Test control for outputs
68	Deact. DIFTRVTOPALM	PHLPTOC1,Test control for outputs
69	Act. DIFTRVTCLALM	PHLPTOC1,Test control for outputs
70	Deact. DIFTRVTCLALM	PHLPTOC1,Test control for outputs
71	Activate SPR_CHR_ALM	PHLPTOC1,Test control for outputs
72	Deactive SPR_CHR_ALM	PHLPTOC1,Test control for outputs
73	Activate OPR_ALM	PHLPTOC1,Test control for outputs
74	Deactive OPR_ALM	PHLPTOC1,Test control for outputs
75	Activate OPR_LO	PHLPTOC1,Test control for outputs
76	Deactive OPR_LO	PHLPTOC1,Test control for outputs
77	Activate IPOW_ALM	PHLPTOC1,Test control for outputs
78	Deactive IPOW_ALM	PHLPTOC1,Test control for outputs
79	Activate IPOW_LO	PHLPTOC1,Test control for outputs
80	Deactive IPOW_LO	PHLPTOC1,Test control for outputs
81	Activate CB_LIFE_ALM	PHLPTOC1,Test control for outputs
82	Deactive CB_LIFE_ALM	PHLPTOC1,Test control for outputs
83	Activate MON_ALM	PHLPTOC1,Test control for outputs
84	Deactive MON_ALM	PHLPTOC1,Test control for outputs
85	Activate PRES_ALM	PHLPTOC1,Test control for outputs
86	Deactive PRES_ALM	PHLPTOC1,Test control for outputs
87	Activate PRES_LO	PHLPTOC1,Test control for outputs
88	Deactive PRES_LO	PHLPTOC1,Test control for outputs
89	Activate OPENPOS	PHLPTOC1,Test control for outputs
90	Deactive OPENPOS	PHLPTOC1,Test control for outputs
91	Activate INVALIDPOS	PHLPTOC1,Test control for outputs
92	Deactive INVALIDPOS	PHLPTOC1,Test control for outputs
93	Activate CLOSEPOS	PHLPTOC1,Test control for outputs
94	Deactive CLOSEPOS	PHLPTOC1,Test control for outputs
95	Activate STR_LS_LOC	PHLPTOC1,Test control for outputs
96	Deactive STR_LS_LOC	PHLPTOC1,Test control for outputs
97	Activate STR_LS_REM	PHLPTOC1,Test control for outputs
98	Deactive STR_LS_REM	PHLPTOC1,Test control for outputs
99	Activate OPR_LS_LOC	PHLPTOC1,Test control for outputs
100	Deactive OPR_LS_LOC	PHLPTOC1,Test control for outputs

101	Activate OPR_LS_REM	PHLPTOC1,Test control for outputs
102	Deactive OPR_LS_REM	PHLPTOC1,Test control for outputs
103	Activate OPR_HS_LOC	PHLPTOC1,Test control for outputs
104	Deactive OPR_HS_LOC	PHLPTOC1,Test control for outputs
105	Activate OPR_HS_REM	PHLPTOC1,Test control for outputs
106	Deactive OPR_HS_REM	PHLPTOC1,Test control for outputs
107	Activate RSTD2H_LOC	PHLPTOC1,Test control for outputs
108	Deactive RSTD2H_LOC	PHLPTOC1,Test control for outputs
109	Activate RSTD2H_REM	PHLPTOC1,Test control for outputs
110	Deactive RSTD2H_REM	PHLPTOC1,Test control for outputs
111	Activate PROT_ACTIVE	PHLPTOC1,Test control for outputs
112	Deactive PROT_ACTIVE	PHLPTOC1,Test control for outputs
113	Activate FAIL	PHLPTOC1,Test control for outputs
114	Deactive FAIL	PHLPTOC1,Test control for outputs
115	Activate RESTORE	PHLPTOC1,Test control for outputs
116	Deactive RESTORE	PHLPTOC1,Test control for outputs
117	Activate FUSEF_3PH	PHLPTOC1,Test control for outputs
118	Deactive FUSEF_3PH	PHLPTOC1,Test control for outputs
119	Activate FUSEF_U	PHLPTOC1,Test control for outputs
120	Deactive FUSEF_U	PHLPTOC1,Test control for outputs
121	Activate READY	PHLPTOC1,Test control for outputs
122	Deactive READY	PHLPTOC1,Test control for outputs
123	Activate RELEASE	PHLPTOC1,Test control for outputs
124	Deactive RELEASE	PHLPTOC1,Test control for outputs
125	Activate OPR_Z_EXTN	PHLPTOC1,Test control for outputs
126	Deactive OPR_Z_EXTN	PHLPTOC1,Test control for outputs
-1	Activate OPR_IIT	PHLPTOC1,Test control for outputs
-2	Deactive OPR_IIT	PHLPTOC1,Test control for outputs
-3	Activate OPR_STALL	PHLPTOC1,Test control for outputs
-4	Deactive OPR_STALL	PHLPTOC1,Test control for outputs
-5	Activate MOT_START	PHLPTOC1,Test control for outputs
-6	Deactive MOT_START	PHLPTOC1,Test control for outputs
-7	Activate LOCK_START	PHLPTOC1,Test control for outputs
-8	Deactive LOCK_START	PHLPTOC1,Test control for outputs
-9	Activate BLK_RESTART	PHLPTOC1,Test control for outputs
-10	Deactive BLK_RESTART	PHLPTOC1,Test control for outputs
-11	Activate OPR_LS	PHLPTOC1,Test control for outputs
-12	Deactive OPR_LS	PHLPTOC1,Test control for outputs
-13	Activate OPR_HS	PHLPTOC1,Test control for outputs
-14	Deactive OPR_HS	PHLPTOC1,Test control for outputs
-15	Activate BLKD2H	PHLPTOC1,Test control for outputs
-16	Deactive BLKD2H	PHLPTOC1,Test control for outputs

-17	Activate BLKD5H	PHLPTOC1,Test control for outputs
-18	Deactive BLKD5H	PHLPTOC1,Test control for outputs
-19	Activate BLKDWAV	PHLPTOC1,Test control for outputs
-20	Deactive BLKDWAV	PHLPTOC1,Test control for outputs
-21	Activate OPR_UFRQ	PHLPTOC1,Test control for outputs
-22	Deactive OPR_UFRQ	PHLPTOC1,Test control for outputs
-23	Activate OPR_OFRQ	PHLPTOC1,Test control for outputs
-24	Deactive OPR_OFRQ	PHLPTOC1,Test control for outputs
-25	Activate OPR_FRG	PHLPTOC1,Test control for outputs
-26	Deactive OPR_FRG	PHLPTOC1,Test control for outputs
-27	Activate ST_UFRQ	PHLPTOC1,Test control for outputs
-28	Deactive ST_UFRQ	PHLPTOC1,Test control for outputs
-29	Activate ST_OFRQ	PHLPTOC1,Test control for outputs
-30	Deactive ST_OFRQ	PHLPTOC1,Test control for outputs
-31	Activate ST_FRG	PHLPTOC1,Test control for outputs
-32	Deactive ST_FRG	PHLPTOC1,Test control for outputs
-33	Activate RAISE	PHLPTOC1,Test control for outputs
-34	Deactive RAISE	PHLPTOC1,Test control for outputs
-35	Activate LOWER	PHLPTOC1,Test control for outputs
-36	Deactive LOWER	PHLPTOC1,Test control for outputs
-37	Activate PAR_FAIL	PHLPTOC1,Test control for outputs
-38	Deactive PAR_FAIL	PHLPTOC1,Test control for outputs
-39	Activate SYNC_INPRO	PHLPTOC1,Test control for outputs
-40	Deactive SYNC_INPRO	PHLPTOC1,Test control for outputs
-41	Activate SYNC_OK	PHLPTOC1,Test control for outputs
-42	Deactive SYNC_OK	PHLPTOC1,Test control for outputs
-43	Activate CL_FAIL_AL	PHLPTOC1,Test control for outputs
-44	Deactive CL_FAIL_AL	PHLPTOC1,Test control for outputs
-45	Activate CMD_FAIL_AL	PHLPTOC1,Test control for outputs
-46	Deactive CMD_FAIL_AL	PHLPTOC1,Test control for outputs
-47	Activate LLDB	PHLPTOC1,Test control for outputs
-48	Deactive LLDB	PHLPTOC1,Test control for outputs
-49	Activate LLLB	PHLPTOC1,Test control for outputs
-50	Deactive LLLB	PHLPTOC1,Test control for outputs
-51	Activate DLLB	PHLPTOC1,Test control for outputs
-52	Deactive DLLB	PHLPTOC1,Test control for outputs
-53	Activate DLDB	PHLPTOC1,Test control for outputs
-54	Deactive DLDB	PHLPTOC1,Test control for outputs
-55	Activate ST_REST	PHLPTOC1,Test control for outputs
-56	Deactive ST_REST	PHLPTOC1,Test control for outputs
-57	Activate INT_BLKD	PHLPTOC1,Test control for outputs
-58	Deactive INT_BLKD	PHLPTOC1,Test control for outputs

-59	Activate SWELLST	PHLPTOC1,Test control for outputs
-60	Deactive SWELLST	PHLPTOC1,Test control for outputs
-61	Activate DIPST	PHLPTOC1,Test control for outputs
-62	Deactive DIPST	PHLPTOC1,Test control for outputs
-63	Activate INTST	PHLPTOC1,Test control for outputs
-64	Deactive INTST	PHLPTOC1,Test control for outputs
-65	Activate COOL_ACTIVE	PHLPTOC1,Test control for outputs
-66	Deactive COOL_ACTIVE	PHLPTOC1,Test control for outputs
-67	Activate MN_UNB_AL	PHLPTOC1,Test control for outputs
-68	Deactive MN_UNB_AL	PHLPTOC1,Test control for outputs
-69	Activate PCT_UNB_AL	PHLPTOC1,Test control for outputs
-70	Deactive PCT_UNB_AL	PHLPTOC1,Test control for outputs
-71	Activate FAIL_CTGRP1	PHLPTOC1,Test control for outputs
-72	Deactive FAIL_CTGRP1	PHLPTOC1,Test control for outputs
-73	Activate FAIL_CTGRP2	PHLPTOC1,Test control for outputs
-74	Deactive FAIL_CTGRP2	PHLPTOC1,Test control for outputs
-75	Activate FAIL_CTGRP3	PHLPTOC1,Test control for outputs
-76	Deactive FAIL_CTGRP3	PHLPTOC1,Test control for outputs
-77	Activate OBS_PR_ACT	PHLPTOC1,Test control for outputs
-78	Deactive OBS_PR_ACT	PHLPTOC1,Test control for outputs
-79	Activate OPERATE_Z1	PHLPTOC1,Test control for outputs
-80	Deactive OPERATE_Z1	PHLPTOC1,Test control for outputs
-81	Activate OPERATE_Z2	PHLPTOC1,Test control for outputs
-82	Deactive OPERATE_Z2	PHLPTOC1,Test control for outputs
-83	Activate OPERATE_Z3	PHLPTOC1,Test control for outputs
-84	Deactive OPERATE_Z3	PHLPTOC1,Test control for outputs
-85	Activate OPERATE_Z4	PHLPTOC1,Test control for outputs
-86	Deactive OPERATE_Z4	PHLPTOC1,Test control for outputs
-87	Activate OPERATE_Z5	PHLPTOC1,Test control for outputs
-88	Deactive OPERATE_Z5	PHLPTOC1,Test control for outputs
-89	Activate START_Z1	PHLPTOC1,Test control for outputs
-90	Deactive START_Z1	PHLPTOC1,Test control for outputs
-91	Activate START_Z2	PHLPTOC1,Test control for outputs
-92	Deactive START_Z2	PHLPTOC1,Test control for outputs
-93	Activate START_Z3	PHLPTOC1,Test control for outputs
-94	Deactive START_Z3	PHLPTOC1,Test control for outputs
-95	Activate START_Z4	PHLPTOC1,Test control for outputs
-96	Deactive START_Z4	PHLPTOC1,Test control for outputs
-97	Activate START_Z5	PHLPTOC1,Test control for outputs
-98	Deactive START_Z5	PHLPTOC1,Test control for outputs
-99	Activate LODDSR_GFC	PHLPTOC1,Test control for outputs
-100	Deactive LODDSR_GFC	PHLPTOC1,Test control for outputs

-101	Activate START_GFC	PHLPTOC1,Test control for outputs
-102	Deactive START_GFC	PHLPTOC1,Test control for outputs
-103	Activate ST_ALARM	PHLPTOC1,Test control for outputs
-104	Deactive ST_ALARM	PHLPTOC1,Test control for outputs
-105	Activate OPR_IRV	PHLPTOC1,Test control for outputs
-106	Deactive OPR_IRV	PHLPTOC1,Test control for outputs
-107	Activate OPR_WEI	PHLPTOC1,Test control for outputs
-108	Deactive OPR_WEI	PHLPTOC1,Test control for outputs
-109	Activate ECHO	PHLPTOC1,Test control for outputs
-110	Deactive ECHO	PHLPTOC1,Test control for outputs
-111	Activate CR	PHLPTOC1,Test control for outputs
-112	Deactive CR	PHLPTOC1,Test control for outputs
-113	Activate CS	PHLPTOC1,Test control for outputs
-114	Deactive CS	PHLPTOC1,Test control for outputs
-115	Activate CRL	PHLPTOC1,Test control for outputs
-116	Deactive CRL	PHLPTOC1,Test control for outputs
-117	Activate LCG	PHLPTOC1,Test control for outputs
-118	Deactive LCG	PHLPTOC1,Test control for outputs
-119	Activate OPR_OVLOD	PHLPTOC1,Test control for outputs
-120	Deactive OPR_OVLOD	PHLPTOC1,Test control for outputs
-121	Activate ST_OVLOD	PHLPTOC1,Test control for outputs
-122	Deactive ST_OVLOD	PHLPTOC1,Test control for outputs
-123	Activate OPR_UN_I	PHLPTOC1,Test control for outputs
-124	Deactive OPR_UN_I	PHLPTOC1,Test control for outputs
-125	Activate ST_UN_I	PHLPTOC1,Test control for outputs
-126	Deactive ST_UN_I	PHLPTOC1,Test control for outputs

8.2.5 ABBIED600_Rev1_PolarizingQuantityKind

Value	Description	Remarks
-1	Zro vol.OR cur.	Pol quantity,Reference quantity used to determine fault direction
1	None	Pol quantity,Reference quantity used to determine fault direction,Self pol
2	Zero Sequence Current	Pol quantity,Reference quantity used to determine fault direction,Zero seq. cur.
3	Zero Sequence Voltage	Pol quantity,Reference quantity used to determine fault direction,Zero seq. volt.
4	Negative Sequence Voltage	Pol quantity,Reference quantity used to determine fault direction,Neg. seq. volt.
5	Phase to Phase Voltages	Pol quantity,Reference quantity used to determine fault direction,Cross pol
6	Phase to Ground Voltages	Pol quantity,Reference quantity used to determine fault direction,Ph-to-gnd volt.
7	Positive sequence voltage	Pol quantity,Reference quantity used to determine fault direction,Pos. seq. volt.

8.2.6 ABBIED600_Rev2_cmdQual

Value	Description	Remarks
-1	Off	Operation mode,Operation mode for generic control point
0	pulse	Operation mode,Operation mode for generic control point,Pulsed
1	persistent	Operation mode,Operation mode for generic control point,Toggle/Persistent

8.2.7 ABBIED600_Rev32_ProFcn

Value	Description	Remarks
-127	PHAPTUV1	Protection,Protection function
-126	PHCPTOV1	Protection,Protection function
-125	PHBPTOV1	Protection,Protection function
-124	PHAPTOV1	Protection,Protection function
-123	DPH3LPDOC2	Protection,Protection function
-122	DPH3LPDOC1	Protection,Protection function
-121	DPH3HPDOC2	Protection,Protection function
-120	DPH3HPDOC1	Protection,Protection function
-119	PH3LPTOC2	Protection,Protection function
-118	PH3LPTOC1	Protection,Protection function
-117	XDEFLPDEF2	Protection,Protection function
-116	XDEFLPDEF1	Protection,Protection function
-115	SDPHLPDOC2	Protection,Protection function
-114	SDPHLPDOC1	Protection,Protection function
-113	XNSPTOC2	Protection,Protection function
-112	XNSPTOC1	Protection,Protection function
-111	XEFIPTOC2	Protection,Protection function
-110	XEFHPTOC4	Protection,Protection function
-109	XEFHPTOC3	Protection,Protection function
-108	XEFLPTOC3	Protection,Protection function
-107	XEFLPTOC2	Protection,Protection function
-106	MAPGAPC16	Protection,Protection function
-105	MAPGAPC15	Protection,Protection function
-104	MAPGAPC14	Protection,Protection function
-103	MAPGAPC13	Protection,Protection function
-102	MAPGAPC12	Protection,Protection function
-101	MAPGAPC11	Protection,Protection function
-100	MAPGAPC10	Protection,Protection function
-99	MAPGAPC9	Protection,Protection function
-98	RESCPSCH1	Protection,Protection function
-96	SPHIPTOC1	Protection,Protection function
-93	SPHLPTOC2	Protection,Protection function
-92	SPHLPTOC1	Protection,Protection function
-89	SPHHPTOC2	Protection,Protection function

-88	SPHHPTOC1	Protection,Protection function
-87	SPHPTUV4	Protection,Protection function
-86	SPHPTUV3	Protection,Protection function
-85	SPHPTUV2	Protection,Protection function
-84	SPHPTUV1	Protection,Protection function
-83	SPHPTOV4	Protection,Protection function
-82	SPHPTOV3	Protection,Protection function
-81	SPHPTOV2	Protection,Protection function
-80	SPHPTOV1	Protection,Protection function
-79	PH3HPTOC2	Protection,Protection function
-78	PH3HPTOC1	Protection,Protection function
-77	PH3IPTOC1	Protection,Protection function
-76	MAPGAPC18	Protection,Protection function
-75	MAPGAPC17	Protection,Protection function
-74	DOPPDPR3	Protection,Protection function
-73	DOPPDPR2	Protection,Protection function
-72	DOPPDPR1	Protection,Protection function
-70	DUPPDPR2	Protection,Protection function
-69	DUPPDPR1	Protection,Protection function
-68	PHPVOC2	Protection,Protection function
-67	DQPTUV2	Protection,Protection function
-66	DQPTUV1	Protection,Protection function
-65	VVSPPAM1	Protection,Protection function
-64	PHPVOC1	Protection,Protection function
-63	H3EFPSEF1	Protection,Protection function
-62	SRCPTOC1	Protection,Protection function
-61	COLPTOC1	Protection,Protection function
-60	HCUBPTOC1	Protection,Protection function
-59	CUBPTOC1	Protection,Protection function
-58	UZPDIS1	Protection,Protection function
-57	FDEFLPDEF2	Protection,Protection function
-56	FDEFLPDEF1	Protection,Protection function
-54	FEFLPTOC1	Protection,Protection function
-53	FDPHLPDOC2	Protection,Protection function
-52	FDPHLPDOC1	Protection,Protection function
-50	FPHLPTOC1	Protection,Protection function
-47	MAP12GAPC8	Protection,Protection function
-46	MAP12GAPC7	Protection,Protection function
-45	MAP12GAPC6	Protection,Protection function
-44	MAP12GAPC5	Protection,Protection function
-43	MAP12GAPC4	Protection,Protection function
-42	MAP12GAPC3	Protection,Protection function

-41	MAP12GAPC2	Protection,Protection function
-40	MAP12GAPC1	Protection,Protection function
-39	UEXPDIS2	Protection,Protection function
-37	HAEFPTOC1	Protection,Protection function
-36	UEXPDIS1	Protection,Protection function
-35	WPWDE3	Protection,Protection function
-34	WPWDE2	Protection,Protection function
-33	WPWDE1	Protection,Protection function
-32	LSHDPFRQ8	Protection,Protection function
-31	LSHDPFRQ7	Protection,Protection function
-30	PHDSTPDIS1	Protection,Protection function
-29	TR3PTDF1	Protection,Protection function
-28	HICPDIF1	Protection,Protection function
-27	HIBPDIF1	Protection,Protection function
-26	HIAPDIF1	Protection,Protection function
-25	OEPVPH4	Protection,Protection function
-24	OEPVPH3	Protection,Protection function
-23	OEPVPH2	Protection,Protection function
-22	OEPVPH1	Protection,Protection function
-19	PSPTOV2	Protection,Protection function
-18	PSPTOV1	Protection,Protection function
-15	PREVPTOC1	Protection,Protection function
-13	PHPTUC3	Protection,Protection function
-12	PHPTUC2	Protection,Protection function
-11	PHPTUC1	Protection,Protection function
-10	LVRTPTUV1	Protection,Protection function
-9	PHIZ1	Protection,Protection function
-8	LVRTPTUV2	Protection,Protection function
-7	INTRPTEF1	Protection,Protection function
-6	LVRTPTUV3	Protection,Protection function
-5	STTPMSU1	Protection,Protection function
-4	MREFPTOC1	Protection,Protection function
-3	JAMPTOC1	Protection,Protection function
-2	PHCPTUV1	Protection,Protection function
-1	PHBPTUV1	Protection,Protection function
0	Unknown	Protection,Protection function
1	PHLPTOC1	Protection,Protection function
2	PHLPTOC2	Protection,Protection function
3	PHLPTOC3	Protection,Protection function
5	PHLTPTOC1	Protection,Protection function
6	PHHPTOC1	Protection,Protection function
7	PHHPTOC2	Protection,Protection function

8	PHHPTOC3	Protection,Protection function
9	PHHPTOC4	Protection,Protection function
10	PHHPTOC5	Protection,Protection function
11	PHHPTOC6	Protection,Protection function
12	PHIPTOC1	Protection,Protection function
13	PHIPTOC2	Protection,Protection function
14	MFADPSDE1	Protection,Protection function
17	EFLPTOC1	Protection,Protection function
18	EFLPTOC2	Protection,Protection function
19	EFLPTOC3	Protection,Protection function
20	EFLPTOC4	Protection,Protection function
22	EFHPTOC1	Protection,Protection function
23	EFHPTOC2	Protection,Protection function
24	EFHPTOC3	Protection,Protection function
25	EFHPTOC4	Protection,Protection function
26	EFHPTOC5	Protection,Protection function
27	EFHPTOC6	Protection,Protection function
28	EFHPTOC7	Protection,Protection function
29	EFHPTOC8	Protection,Protection function
30	EFIPTOC1	Protection,Protection function
31	EFIPTOC2	Protection,Protection function
32	EFIPTOC3	Protection,Protection function
35	NSPTOC1	Protection,Protection function
36	NSPTOC2	Protection,Protection function
37	NSPTOC3	Protection,Protection function
38	NSPTOC4	Protection,Protection function
41	PDNSPTOC1	Protection,Protection function
44	T1PTTR1	Protection,Protection function
45	T1PTTR2	Protection,Protection function
46	T2PTTR1	Protection,Protection function
48	MPTTR1	Protection,Protection function
50	DEFLPDEF1	Protection,Protection function
51	DEFLPDEF2	Protection,Protection function
52	DEFLPDEF3	Protection,Protection function
53	DEFHPDEF1	Protection,Protection function
54	DEFHPDEF2	Protection,Protection function
56	EFPADM1	Protection,Protection function
57	EFPADM2	Protection,Protection function
58	EFPADM3	Protection,Protection function
59	FRPFRQ1	Protection,Protection function
60	FRPFRQ2	Protection,Protection function
61	FRPFRQ3	Protection,Protection function

62	FRPFRQ4	Protection,Protection function
63	FRPFRQ5	Protection,Protection function
64	FRPFRQ6	Protection,Protection function
65	LSHDPFRQ1	Protection,Protection function
66	LSHDPFRQ2	Protection,Protection function
67	LSHDPFRQ3	Protection,Protection function
68	LSHDPFRQ4	Protection,Protection function
69	LSHDPFRQ5	Protection,Protection function
70	LSHDPFRQ6	Protection,Protection function
71	DPHLPDOC1	Protection,Protection function
72	DPHLPDOC2	Protection,Protection function
74	DPHHPDOC1	Protection,Protection function
75	DPHHPDOC2	Protection,Protection function
77	MAPGAPC1	Protection,Protection function
78	MAPGAPC2	Protection,Protection function
79	MAPGAPC3	Protection,Protection function
80	MAPGAPC4	Protection,Protection function
81	MAPGAPC5	Protection,Protection function
82	MAPGAPC6	Protection,Protection function
83	MAPGAPC7	Protection,Protection function
84	MAPGAPC8	Protection,Protection function
85	MNSPTOC1	Protection,Protection function
86	MNSPTOC2	Protection,Protection function
88	LOFLPTUC1	Protection,Protection function
89	LOFLPTUC2	Protection,Protection function
90	TR2PTDF1	Protection,Protection function
91	LNPLDF1	Protection,Protection function
92	LREFPNDF1	Protection,Protection function
93	LREFPNDF2	Protection,Protection function
94	MPDIF1	Protection,Protection function
96	HREFPDIF1	Protection,Protection function
97	HREFPDIF2	Protection,Protection function
98	MHZPDIF1	Protection,Protection function
100	ROVPTOV1	Protection,Protection function
101	ROVPTOV2	Protection,Protection function
102	ROVPTOV3	Protection,Protection function
103	ROVPTOV4	Protection,Protection function
104	PHPTOV1	Protection,Protection function
105	PHPTOV2	Protection,Protection function
106	PHPTOV3	Protection,Protection function
107	PHPTOV4	Protection,Protection function
108	PHPTUV1	Protection,Protection function

109	PHPTUV2	Protection,Protection function
110	PHPTUV3	Protection,Protection function
111	PHPTUV4	Protection,Protection function
112	NSPTOV1	Protection,Protection function
113	NSPTOV2	Protection,Protection function
114	NSPTOV3	Protection,Protection function
115	NSPTOV4	Protection,Protection function
116	PSPTUV1	Protection,Protection function
117	PSPTUV2	Protection,Protection function
118	ARCSARC1	Protection,Protection function
119	ARCSARC2	Protection,Protection function
120	ARCSARC3	Protection,Protection function

8.2.8 ABBIED600_Rev2_AutoReclosingKind

Value	Description	Remarks
-1	Not defined	STATUS,AR status signal for IEC61850
1	Ready	STATUS,AR status signal for IEC61850
2	InProgress	STATUS,AR status signal for IEC61850
3	Successful	STATUS,AR status signal for IEC61850
4	WaitingForTrip	STATUS,AR status signal for IEC61850
5	TripFromProtection	STATUS,AR status signal for IEC61850
6	FaultDisappeared	STATUS,AR status signal for IEC61850
7	WaitToComplete	STATUS,AR status signal for IEC61850
8	CBclosed	STATUS,AR status signal for IEC61850
9	CycleUnsuccessful	STATUS,AR status signal for IEC61850
10	Unsuccessful	STATUS,AR status signal for IEC61850
11	Aborted	STATUS,AR status signal for IEC61850

8.2.9 ABBIED600_Rev1_LiveDeadModeKind

Value	Description	Remarks
-1	Off	Live dead mode,Energizing check mode
1	Dead Line, Dead Bus	Live dead mode,Energizing check mode,Both Dead
2	Live Line, Dead Bus	Live dead mode,Energizing check mode,Live L, Dead B
3	Dead Line, Live Bus	Live dead mode,Energizing check mode,Dead L, Live B
4	Dead Line, Dead Bus OR Live Line, Dead Bus	Live dead mode,Energizing check mode,Dead Bus, L Any
5	Dead Line, Dead Bus OR Dead Line, Live Bus	Live dead mode,Energizing check mode,Dead L, Bus Any
6	Live Line, Dead Bus OR Dead Line, Live Bus	Live dead mode,Energizing check mode,One Live, Dead
7	Dead Line, Dead Bus OR Live Line, Dead Bus OR Dead Line, Live Bus	Live dead mode,Energizing check mode,Not Both Live

8.2.10 ABBIED600_Rev1_I3CCls2Frame

Value	Description	Remarks
-1	Not in use	Frame1InUse,Active Class2 Frame 1
0	User frame	Frame1InUse,Active Class2 Frame 1
1	Standard frame 1	Frame1InUse,Active Class2 Frame 1
2	Standard frame 2	Frame1InUse,Active Class2 Frame 1
3	Standard frame 3	Frame1InUse,Active Class2 Frame 1
4	Standard frame 4	Frame1InUse,Active Class2 Frame 1
5	Standard frame 5	Frame1InUse,Active Class2 Frame 1
6	Private frame 6	Frame1InUse,Active Class2 Frame 1
7	Private frame 7	Frame1InUse,Active Class2 Frame 1

8.2.11 ABBIED600_Rev2_FaultLoopKind

Value	Description	Remarks
-5	No fault	FAULT_LOOP,Fault impedance loop
-4	PhaseAtoBtoCtoGround	FAULT_LOOP,Fault impedance loop,ABCG Fault
-3	PhaseCtoAGround	FAULT_LOOP,Fault impedance loop,CAG Fault
-2	PhaseBtoCGround	FAULT_LOOP,Fault impedance loop,BCG Fault
-1	PhaseAtoBGround	FAULT_LOOP,Fault impedance loop,ABG Fault
1	PhaseAtoGround	FAULT_LOOP,Fault impedance loop,AG Fault
2	PhaseBtoGround	FAULT_LOOP,Fault impedance loop,BG Fault
3	PhaseCtoGround	FAULT_LOOP,Fault impedance loop,CG Fault
4	PhaseAtoB	FAULT_LOOP,Fault impedance loop,AB Fault
5	PhaseBtoC	FAULT_LOOP,Fault impedance loop,BC Fault
6	PhaseCtoA	FAULT_LOOP,Fault impedance loop,CA Fault
7	Others	FAULT_LOOP,Fault impedance loop,ABC Fault

9 Control Block Extensions

None

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