Protection and Control Relay

615 series

IEC 61850 Ed2 Model Implementation Conformance Statement (MICS) for 615 series

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1 About this manual

1.1 Read it first!

Before attempting any operation with IED from 615 series, read carefully the IED documentation first.

This document is addressed to anyone who needs to interact with 615 series and its IEC 61850 features in more detail.

1.2 Document information

Revision History

Revision	Date	Note
B	31 Mar 2015	615 series v5.1

Applicability

This manual is applicable to all 615 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:

MICS 240582 B 2015

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www.abb.com/substationautomation

Do not make any changes to the 615 series configurations unless you are familiar with the 615 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 615 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
LPHD	LD0.LPHD1	Physical device
	CTRL.LPHD1	Std conformance
	DR.LPHD1	Physical device information
LINF	LD0.LINF1	Customer information
LDEV	LD0.LDEV1	Device
LPRT	LD0.GSELPRT1	GSELPRT1,GSE
	LD0.MMSLPRT1	61850-8-1 MMS
	LD0.I3CLPRT1	IEC60870-5-103
	LD0.DNPLPRT1	DNP 3.0
	LD0.MBSLPRT1	Modbus
	LD0.MBMLPRT1	Modbus Master
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
A:Logical nodes for automatic control		
ATCC	LD0.OLATCC1	OLATCC1,90V(1),COLTC(1)
C:Logical nodes for control		
CILO	CTRL.CBCILO1	CBXCBR1,I<->O CB(1)
	CTRL.DCCILO1	DCXSWI1,I<->O DCC(1)
	CTRL.DCCILO2	DCXSWI2,I<->O DCC(2)
	CTRL.ESCILO1	ESXSWI1,I<->O ESC(1)
	CTRL.CBCILO2	CBXCBR2,I<->O CB(2)
	CTRL.DCCILO3	DCXSWI3,I<->O DCC(3)
	CTRL.DCCILO4	DCXSWI4,I<->O DCC(4)
	CTRL.ESCILO2	ESXSWI2,I<->O ESC(2)
	CTRL.CBCILO3	CBXCBR3,I<->O CB(3)
CSWI	CTRL.CBCSWI1	CBXCBR1,I<->O CB(1)
	CTRL.DCSCSWI1	DCSXSWI1,I<->O DC(1)
	CTRL.DCSCSWI2	DCSXSWI2,I<->O DC(2)

	CTRL.DCSCSWI3	DCSXSWI3,I<->O DC(3)
	CTRL.ESSCSWI1	ESSXSWI1,I<->O ES(1)
	CTRL.ESSCSWI2	ESSXSWI2,I<->O ES(2)
	CTRL.DCCSWI1	DCXSWI1,I<->O DCC(1)
	CTRL.DCCSWI2	DCXSWI2,I<->O DCC(2)
	CTRL.ESCSWI1	ESXSWI1,I<->O ESC(1)
	CTRL.CBCSWI2	CBXCBR2,I<->O CB(2)
	CTRL.DCCSWI3	DCXSWI3,I<->O DCC(3)
	CTRL.DCCSWI4	DCXSWI4,I<->O DCC(4)
	CTRL.DCSCSWI4	DCSXSWI4,I<->O DC(4)
	CTRL.ESCSWI2	ESXSWI2,I<->O ESC(2)
	CTRL.CBCSWI3	CBXCBR3,I<->O CB(3)
F:Logical nodes for functional blocks		
FCNT	LD0.UDFCNT1	UDFCNT1,CTR(1)
G:Logical Nodes for generic references		
GGIO	LD0.LEDGGIO1	Programmable LEDs
	LD0.XGGIO100	X100 (PSM)
	LD0.BSTGGIO1	BSTGGIO1,BST(1)
	LD0.XGGIO90	X000 (COM)
	LD0.FKEYGGIO1	FKEYGGIO1,FKEY
	LD0.XAGGIO115	X115 (AIM3)
	LD0.XGGIO120	X120 (AIM)
	LD0.XARGGIO130	X130 (AIM+RTD)
	LD0.XAGGIO120	X120 (AIM2),(X120 (AIM2))
	LD0.XAGGIO130	X130 (AIM)
	LD0.XRGGIO130	X130 (RTD)
	LD0.XBRGGIO130	X130 (BIO+RTD)
	LD0.XRGGIO105	X105 (RTD)
	LD0.XRGGIO110	X110 (RTD)
	LD0.XSGGIO130	X130 (SIM)
	LD0.XGGIO105	X105 (BIO)
	LD0.XHBGGIO105	X105 (BIO-H)
	LD0.XGGIO110	X110 (BIO)
	LD0.XBGGIO110	X110 (BIO-H)
	LD0.XBGGIO115	X115 (BIO)
	LD0.XGGIO130	X130 (BIO)
GAPC	LD0.TPGAPC1	TPGAPC1,TP(1)
	LD0.TPGAPC2	TPGAPC2,TP(2)
	LD0.TPGAPC3	TPGAPC3,TP(3)
	LD0.TPGAPC4	TPGAPC4,TP(4)
	LD0.ESMGAPC1	ESMGAPC1,ESTART(1)

	LD0.MVGAPC1	MVGAPC1,MV(1)
	LD0.ISWGAPC1	ISWGAPC1,ISWGAPC(1)
	LD0.OSWGAPC1	OSWGAPC1,OSWGAPC(1)
	LD0.SELGAPC1	SELGAPC1,SELGAPC(1)
	LD0.MVGAPC2	MVGAPC2,MV(2)
	LD0.SRGAPC1	SRGAPC1,SR(1)
	LD0.SRGAPC2	SRGAPC2,SR(2)
	LD0.TONGAPC1	TONGAPC1,TON(1)
	LD0.TONGAPC2	TONGAPC2,TON(2)
	LD0.TOFGAPC1	TOFGAPC1,TOF(1)
	LD0.TOFGAPC2	TOFGAPC2,TOF(2)
	LD0.PTGAPC1	PTGAPC1,PT(1)
	LD0.PTGAPC2	PTGAPC2,PT(2)
	LD0.SCA4GAPC1	SCA4GAPC1,SCA4(1)
	LD0.MVI4GAPC1	MVI4GAPC1,MVI4(1)
	LD0.TPSGAPC1	TPSGAPC1,TPS(1)
	LD0.TPMGAPC1	TPMGAPC1,TPM(1)
	LD0.SPCGAPC1	SPCGAPC1,SPC(1)
	LD0.SPCGAPC2	SPCGAPC2,SPC(2)
	LD0.MAPGAPC1	MAPGAPC1,MAP(1)
	LD0.SPCGAPC3	SPCGAPC3,SPC(3)
	LD0.SPCLGAPC1	SPCLGAPC1,SPCL(1)
	LD0.SPCRGAPC1	SPCRGAPC1,SPCR(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)
GSAL	LD0.GSAL1	Security application
I:Logical Nodes for archiving		

IHMI	LD0.IHMI1	Device
ITPC	LD0.PCSITPC1	PCSITPC1,PCS(1)
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.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.VMMXU1	VMMXU1,3V(1),3U(1)
	LD0.VAVMMXU1	VMMXU1,3V(1),3U(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.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.VMMXU2	VMMXU2,3V(2),3U(2)
	LD0.VAVMMXU2	VMMXU2,3V(2),3U(2)
	LD0.RESVMMXU2	RESVMMXU2,Vn(2),Uo(2)
	LD0.RVAVMMXU2	RESVMMXU2,Vn(2),Uo(2)
	LD0.RVMAMMXU2	RESVMMXU2,Vn(2),Uo(2)
	LD0.RVMIMMXU2	RESVMMXU2,Vn(2),Uo(2)
	LD0.WMMXU1	WPWDE1,32N(1),Po>->(1)
	LD0.CMMXU2	CMMXU2,3I(2)
	LD0.CAVMMXU2	CMMXU2,3I(2)
	LD0.CMAMMXU2	CMMXU2,3I(2)
	LD0.CMIMMXU2	CMMXU2,3I(2)
	LD0.CMMXU3	CMMXU3,3I(3)
	LD0.CAVMMXU3	CMMXU3,3I(3)
	LD0.CMAMMXU3	CMMXU3,3I(3)
	LD0.CMIMMXU3	CMMXU3,3I(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)
MSQI	LD0.CSMSQI1	CSMSQI1,I1,I2,I0(1)

	LD0.VSMSQI1	VSMSQI1,V1,V2,V0(1),U1,U2,U0(1)
	LD0.CSMSQI2	CSMSQI2,I1,I2,I0(2)
	LD0.CSMSQI3	CSMSQI3,I1,I2,I0(3)
MMTR	LD0.PEMMTR1	PEMMXU1,P,E(1)
MHAI	LD0.HAEFMHAI1	HAEFPTOC1,51NHA(1),Io>HA(1)
	LD0.CMHAI1	CMHAI1,PQM3I(1)
	LD0.VMHAI1	VMHAI1,PQM3V(1),PQM3U(1)
P:Logical Nodes for protection functions		
PSOF	LD0.CBPSOF1	CBPSOF1,SOTF(1)
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.NSPTOC1	NSPTOC1,46(1),I2>(1)
	LD0.NSPTOC2	NSPTOC2,46(2),I2>(2)
	LD0.PDNSPTOC1	PDNSPTOC1,46PD(1),I2/I1>(1)
	LD0.PREVPTOC1	PREVPTOC1,46R(1),I2>>(1)
	LD0.JAMPTOC1	JAMPTOC1,51LR(1),Ist>(1)
	LD0.EFLPTOC1	EFLPTOC1,51N-1(1),Io>(1)
	LD0.EFHPTOC1	EFHPTOC1,51N-2(1),Io>>(1)
	LD0.PHIPTOC2	PHIPTOC2,50P/51P(2),3I>>>(2)
	LD0.PHLPTOC2	PHLPTOC2,51P-1(2),3I>(2)
	LD0.MNSPTOC1	MNSPTOC1,46M(1),I2>M(1)
	LD0.MNSPTOC2	MNSPTOC2,46M(2),I2>M(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.HCUB1PTOC1	HCUBPTOC1,51NC-2(1),3dI>C(1)
	LD0.HCUB2PTOC1	HCUBPTOC1,51NC-2(1),3dI>C(1)
	LD0.SRC1PTOC1	SRCPTOC1,55TD(1),TD>(1)
	LD0.SRC2PTOC1	SRCPTOC1,55TD(1),TD>(1)
	LD0.DPHLPTOC1	DPHLPDOC1,67-1(1),3I>->(1)
	LD0.DPHHPTOC1	DPHHPDOC1,67-2(1),3I>>->(1)
	LD0.DEFLPTOC1	DEFLPDEF1,67N-1(1),Io>->(1)
	LD0.DEFHPTOC1	DEFHPDEF1,67N-2(1),Io>>->(1)
	LD0.DEFLPTOC2	DEFLPDEF2,67N-1(2),Io>->(2)
	LD0.EFLPTOC2	EFLPTOC2,51N-1(2),Io>(2)
	LD0.EFIPTOC1	EFIPTOC1,50N/51N(1),Io>>>(1)
	LD0.DPHLPTOC2	DPHLPDOC2,67-1(2),3I>->(2)
	LD0.EFHPTOC2	EFHPTOC2,51N-2(2),Io>>(2)
	LD0.DPHHPTOC2	DPHHPDOC2,67-2(2),3I>>->(2)

	LD0.DEFLPTOC3	DEFLPDEF3,67N-1(3),Io>->(3)
	LD0.HAEFPTOC1	HAEFPTOC1,51NHA(1),Io>HA(1)
	LD0.PHLPTOC3	PHLPTOC3,51P-1(3),3I>(3)
	LD0.PHHPTOC3	PHHPTOC3,51P-2(3),3I>>(3)
	LD0.NSPTOC3	NSPTOC3,46(3),I2>(3)
	LD0.EFLPTOC3	EFLPTOC3,51N-1(3),Io>(3)
	LD0.EFHPTOC3	EFHPTOC3,51N-2(3),Io>>(3)
PTTR	LD0.T1PTTR1	T1PTTR1,49F(1),3Ith>F(1)
	LD0.MPTTR1	MPTTR1,49M(1),3Ith>M(1)
	LD0.T2PTTR1	T2PTTR1,49T(1),3Ith>T(1)
PHAR	LD0.INRPHAR1	INRPHAR1,68(1),3I2f>(1)
	LD0.LNPHAR1	LNPLDF1,87L(1),3dI>L(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.TR3H2PHAR1	TR3PTDF1,87T3(1),3dI>3W(1)
	LD0.TR3H5PHAR1	TR3PTDF1,87T3(1),3dI>3W(1)
PTRC	LD0.TRPPTRC1	TRPPTRC1,94/86(1),Master Trip(1)
	LD0.TRPPTRC2	TRPPTRC2,94/86(2),Master Trip(2)
	LD0.LEDPTRC1	Global conditioning
	LD0.LNPTRC1	LNPLDF1,87L(1),3dI>L(1)
	LD0.TR2PTRC1	TR2PTDF1,87T(1),3dI>T(1)
	LD0.FRPTRC1	FRPFRQ1,81(1),f>/f
	LD0.FRPTRC2	FRPFRQ2,81(2),f>/f
	LD0.FRPTRC3	FRPFRQ3,81(3),f>/f
	LD0.FRPTRC4	FRPFRQ4,81(4),f>/f
	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.FRPTRC5	FRPFRQ5,81(5),f>/f
	LD0.FRPTRC6	FRPFRQ6,81(6),f>/f
	LD0.MPTRC1	MPDIF1
	LD0.TR3PTRC1	TR3PTDF1,87T3(1),3dI>3W(1)
	LD0.ARCPTRC11	ARCSARC1,50L/50NL(1),ARC(1)
	LD0.TRPPTRC3	TRPPTRC3,94/86(3),Master Trip(3)
	LD0.H3EFPTRC1	H3EFPSEF1,27/59THD(1),dUo(3H)>/Uo(3H)<(1)
	LD0.TRPPTRC4	TRPPTRC4,94/86(4),Master Trip(4)
	LD0.TRPPTRC5	TRPPTRC5,94/86(5),Master Trip(5)
PMSS	LD0.STTPMSS1	STTPMSU1,49,66,48,51LR(1),Is2t n<(1)
PMRI	LD0.STTPMRI1	STTPMSU1,49,66,48,51LR(1),Is2t n<(1)

PTUC	LD0.LOFLPTUC1	LOFLPTUC1,37(1),3I<(1)
	LD0.COLPTUC1	COLPTOC1,51C/37(1),3I>3I<(1)
	LD0.PHPTUC1	PHPTUC1,37(1),3I<(1)
	LD0.LOFLPTUC2	LOFLPTUC2,37(2),3I<(2)
	LD0.PHPTUC2	PHPTUC2,37(2),3I<(2)
	LD0.PHPTUC3	PHPTUC3,37(3),3I<(3)
PDIF	LD0.HIPDIF1	HIPDIF1,87(1),dHi>(1)
	LD0.LNLPDIF1	LNPLDF1,87L(1),3dI>L(1)
	LD0.LNHPDIF1	LNPLDF1,87L(1),3dI>L(1)
	LD0.TR2LPDIF1	TR2PTDF1,87T(1),3dI>T(1)
	LD0.TR2HPDIF1	TR2PTDF1,87T(1),3dI>T(1)
	LD0.HREFPDIF1	HREFPDIF1,87NH(1),dIoHi>(1)
	LD0.LREFPDIF1	LREFPNDF1,87NL(1),dIoLo>(1)
	LD0.MHPDIF1	MPDIF1
	LD0.MLPDIF1	MPDIF1
	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.TR3LPDIF1	TR3PTDF1,87T3(1),3dI>3W(1)
	LD0.TR3HPDIF1	TR3PTDF1,87T3(1),3dI>3W(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.H3EFPTUV1	H3EFPSEF1,27/59THD(1),dUo(3H)>/Uo(3H)<(1)
PTOV	LD0.PHPTOV1	PHPTOV1,59(1),3U>(1)
	LD0.PHPTOV2	PHPTOV2,59(2),3U>(2)
	LD0.PHPTOV3	PHPTOV3,59(3),3U>(3)
	LD0.ROVPTOV1	ROVPTOV1,59G(1),Uo>(1)
	LD0.ROVPTOV2	ROVPTOV2,59G(2),Uo>(2)
	LD0.ROVPTOV3	ROVPTOV3,59G(3),Uo>(3)
	LD0.NSPTOV1	NSPTOV1,47O-(1),U2>(1)
	LD0.NSPTOV2	NSPTOV2,47O-(2),U2>(2)
	LD0.H3EFPTOV1	H3EFPSEF1,27/59THD(1),dUo(3H)>/Uo(3H)<(1)
PTOF	LD0.FRPTOF1	FRPFRQ1,81(1),f>/f
	LD0.FRPTOF2	FRPFRQ2,81(2),f>/f
	LD0.FRPTOF3	FRPFRQ3,81(3),f>/f
	LD0.FRPTOF4	FRPFRQ4,81(4),f>/f
	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.FRPTOF5	FRPFRQ5,81(5),f>/f
	LD0.FRPTOF6	FRPFRQ6,81(6),f>/f
PTUF	LD0.FRPTUF1	FRPFRQ1,81(1),f>/f
	LD0.FRPTUF2	FRPFRQ2,81(2),f>/f
	LD0.FRPTUF3	FRPFRQ3,81(3),f>/f
	LD0.FRPTUF4	FRPFRQ4,81(4),f>/f
	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.FRPTUF5	FRPFRQ5,81(5),f>/f
	LD0.FRPTUF6	FRPFRQ6,81(6),f>/f
PFRC	LD0.FRPFRC1	FRPFRQ1,81(1),f>/f
	LD0.FRPFRC2	FRPFRQ2,81(2),f>/f
	LD0.FRPFRC3	FRPFRQ3,81(3),f>/f
	LD0.FRPFRC4	FRPFRQ4,81(4),f>/f
	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.FRPFRC5	FRPFRQ5,81(5),f>/f
	LD0.FRPFRC6	FRPFRQ6,81(6),f>/f
PTEF	LD0.INTRPTEF1	INTRPTEF1,67NIEF(1),Io>->IEF(1)
PHIZ	LD0.PHIZ1	PHIZ1,HIZ(1),HIF(1)
PADM	LD0.EFPADM1	EFPADM1,21YN(1),Yo>->(1)
PSDE	LD0.WPSDE1	WPWDE1,32N(1),Po>->(1)
PVPH	LD0.OEPVPH1	OEPVPH1,24(1),U/f>(1)
	LD0.OEPVPH2	OEPVPH2,24(2),U/f>(2)
PIOC	LD0.ARCPIOC11	ARCSARC1,50L/50NL(1),ARC(1)
	LD0.ARCPIOC12	ARCSARC1,50L/50NL(1),ARC(1)
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,PQMUBV(1),PQMUBU(1)
R:Logical nodes for protection re-lated functions		
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)
RFRC	LD0.FLTRFRC1	FLTRFRC1,FaultRec1
	LD0.FLO1RFRC1	SCEFRFLO1,21FL(1),FLOC(1)
RMXU	LD0.LNRMXU1	LNPLDF1,87L(1),3dI>L(1)
RLRC	LD0.LDPRLRC1	LDPRLRC1
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.DEFLRDIR2	DEFLPDEF2,67N-1(2),Io>->(2)
	LD0.DPHLRDIR2	DPHLPDOC2,67-1(2),3I>->(2)
	LD0.DPHHRDIR2	DPHHPDOC2,67-2(2),3I>>->(2)
	LD0.DEFLRDIR3	DEFLPDEF3,67N-1(3),Io>->(3)
	LD0.WRDIR1	WPWDE1,32N(1),Po>->(1)
RSYN	LD0.SECRSYN1	SECRSYN1,25(1),SYNC(1)
RREC	LD0.DARREC1	DARREC1,79(1),O->I(1)
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,PQMUBV(1),PQMUBU(1)
	LD0.QVU2RQRC1	VSQVUB1,PQMUBV(1),PQMUBU(1)
	LD0.QVU3RQRC1	VSQVUB1,PQMUBV(1),PQMUBU(1)
RCTF	LD0.CTSRCTF1	CTSRCTF1,MCS 3I,I2
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.TCSSCBR1	TCSSCBR1,TCM(1),TCS(1)
	LD0.TCSSCBR2	TCSSCBR2,TCM(2),TCS(2)
	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.TCSSCBR3	TCSSCBR3,TCM(3),TCS(3)
SOPT	LD0.MDSOPT1	MDSOPT1,OPTM(1),OPTS(1)
	LD0.MDSOPT2	MDSOPT2,OPTM(2),OPTS(2)
SPVC	LD0.CCSPVC1	CCSPVC1,MCS 3I(1)
	LD0.HZCCASPVC1	HZCCASPVC1,MCS I_A(1)
	LD0.HZCCBSPVC1	HZCCBSPVC1,MCS I_B(1)
	LD0.HZCCCSPVC1	HZCCCSPVC1,MCS I_C(1)
	LD0.SEQSPVC1	SEQSPVC1,60(1),FUSEF(1)
	LD0.CCSPVC2	CCSPVC2,MCS 3I(2)

SIMG	LD0.SSIMG1	SSIMG1
	LD0.SSIMG2	SSIMG2
	LD0.SSIMG3	SSIMG3
SOPM	LD0.SSOPM1	SSOPM1
	LD0.SSOPM2	SSOPM2
	LD0.SSOPM3	SSOPM3
SARC	LD0.ARCSARC11	ARCSARC1,50L/50NL(1),ARC(1)
T:Logical nodes for instrument transformers and sensors		
TVTR	LD0.RESTVTR2	Voltage (UoB,VT)
	LD0.RESTVTR1	Voltage (Uo,VT)
	LD0.UL1TVTR1	Voltage (3U,VT)
	LD0.UL2TVTR1	Voltage (3U,VT)
	LD0.UL3TVTR1	Voltage (3U,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)
TCTR	LD0.IL1TCTR3	Current (3IC,CT)
	LD0.IL2TCTR3	Current (3IC,CT)
	LD0.IL3TCTR3	Current (3IC,CT)
	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)
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.DCSXSWI1	DCSXSWI1,I<->O DC(1)
	CTRL.DCSXSWI2	DCSXSWI2,I<->O DC(2)
	CTRL.DCSXSWI3	DCSXSWI3,I<->O DC(3)
	CTRL.ESSXSWI1	ESSXSWI1,I<->O ES(1)
	CTRL.ESSXSWI2	ESSXSWI2,I<->O ES(2)
	CTRL.DCXSWI1	DCXSWI1,I<->O DCC(1)
	CTRL.DCXSWI2	DCXSWI2,I<->O DCC(2)
	CTRL.ESXSWI1	ESXSWI1,I<->O ESC(1)

	CTRL.DCXSWI3	DCXSWI3,I<->O DCC(3)
	CTRL.DCXSWI4	DCXSWI4,I<->O DCC(4)
	CTRL.DCSXSWI4	DCSXSWI4,I<->O DC(4)
	CTRL.ESXSWI2	ESXSWI2,I<->O ESC(2)
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 (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Beh	ABBIED600_Rev2_ENS_beh_e	Behaviour	E	IEC 61850-7-4:2007
NamPlt	ABBIED600_Rev3_LPL_LD0_LINF_ED2_e	Name plate	E	IEC 61850-7-4:2007
BayNam	ABBIED600_Rev1_VSG_2_20_e	Name of the bay	E	ABBIED600:2014
CfgNam	ABBIED600_Rev1_VSG_1_20_e	IED configuration name	E	ABBIED600:2014
DevRev	ABBIED600_Rev1_VSG_1_64_e	Product version number	E	ABBIED600:2014
CstNam	ABBIED600_Rev1_VSG_2_64_e	Name of the customer	E	ABBIED600:2014
CstStNam	ABBIED600_Rev1_VSG_2_64_e	Name of the state	E	ABBIED600:2014
CstStreNam	ABBIED600_Rev1_VSG_2_64_e	Name of the street	E	ABBIED600:2014
CstHouNum	ABBIED600_Rev1_VSG_2_64_e	Number of the house	E	ABBIED600:2014
CstZip	ABBIED600_Rev1_VSG_2_20_e	ZIP/Postal code	E	ABBIED600:2014
CstCityNam	ABBIED600_Rev1_VSG_2_64_e	City/Province	E	ABBIED600:2014
CstCntyNam	ABBIED600_Rev1_VSG_2_64_e	Name of the country	E	ABBIED600:2014
CardNam	ABBIED600_Rev7_DPL_eeprom_2_ED2_e	Card information	E	ABBIED600:2014
TestStaId	ABBIED600_Rev1_LPL_VSS_dU_20_e	Testing	E	ABBIED600:2014
HwId	ABBIED600_Rev1_LPL_VSS_1_20_e	HW module	E	ABBIED600:2014

6.1.2 LN: LDEV1 Name: LDEV (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

Beh	ABBIED600_Rev2_ENS_beh_e	Behaviour	E	IEC 61850-7-4:2007
NamPlt	ABBIED600_Rev2_LPL_LD0_LDEV_ED2_e	Name plate	E	IEC 61850-7-4:2007
IPAddr	ABBIED600_Rev1_VSG_2_20_e	IP address for rear port(s)	E	ABBIED600:2014
IPAddrSub-Ntw	ABBIED600_Rev1_VSG_2_20_e	Subnet mask for rear port(s)	E	ABBIED600:2014
IPAddrGtw	ABBIED600_Rev1_VSG_2_20_e	Default gate-way for rear port(s)	E	ABBIED600:2014
IPAddrFrt	ABBIED600_Rev1_VSG_1_20_e	IP address for front port (fixed)	E	ABBIED600:2014
Mac1	ABBIED600_Rev1_VSG_1_20_e	Mac address for rear port(s)	E	ABBIED600:2014
Mac2	ABBIED600_Rev1_VSG_1_20_e	Mac address for front port	E	ABBIED600:2014
SwrNum	ABBIED600_Rev1_LPL_VSS_1_20	SW		
OrdrNum	ABBIED600_Rev1_LPL_VSS_1_20	Order number		
WrmStrDet	ABBIED600_Rev1_SPS	Warm start detected		
WacTrgDet	ABBIED600_Rev1_SPS	Watchdog re-set detected		
DevWrn	ABBIED600_Rev6_ENS_warning	Warning		
DevFail	ABBIED600_Rev10_ENS_error	Internal Fault		
StLstOv	ABBIED600_Rev1_SPS_e	Status over-flow	E	ABBIED600:2014
MeasLstOv	ABBIED600_Rev1_SPS_e	Meas overflow	E	ABBIED600:2014
ChgAckCnt	ABBIED600_Rev1_INS_retain_e	Number of composition changes	E	ABBIED600:2014
ChgFlg	ABBIED600_Rev2_INC_control_int_e	Composition has changed	E	ABBIED600:2014,status-only,direct-with-normal-se-curity
WrmStrCmd	ABBIED600_Rev2_SPC_control_e	Reset device	E	ABBIED600:2014,status-only,direct-with-normal-se-curity
BlkMod	ABBIED600_Rev2_ENG_SP_BlkMod_e	Global block-ing mode se-lection	E	ABBIED600:2014
HzSetSel	ABBIED600_Rev2_ENG_SP_HzSet_e	Rated fre-quency	E	ABBIED600:2014
PhRotSet	ABBIED600_Rev2_ENG_SP_PhRotSet_e	Phase rotation order	E	ABBIED600:2014
DiVThres	ABBIED600_Rev1_ING_SP_e	Threshold voltage	E	ABBIED600:2014
DiOscThres	ABBIED600_Rev1_ING_SP_1_e	Input osc. level	E	ABBIED600:2014
DiOscHys	ABBIED600_Rev1_ING_SP_1_e	Input osc. hyst	E	ABBIED600:2014

SetSeld	ABBIED600_Rev1_SPS_e	Settings reservation	E	ABBIED600:2014
SetChg	ABBIED600_Rev1_SPS_e	Settings change	E	ABBIED600:2014
PhOrdMod	ABBIED600_Rev2_ENG_SP_PhOrdSet_e	Phase connection order	E	ABBIED600:2014
ACrvSatPnt	ABBIED600_Rev1_ASG_SP_f_e	Overcurrent IDMT saturation point	E	ABBIED600:2014
ADmdAvMod	ABBIED600_Rev2_ENG_SP_DmdAvMod_e	A demand Av mode	E	ABBIED600:2014
MtrDmdItrv	ABBIED600_Rev2_ENG_SP_dmdItrv_e	Demand interval	E	ABBIED600:2014
HzAdpEna	ABBIED600_Rev1_SPG_SP_e	Frequency adaptivity	E	ABBIED600:2014
ModRemCtl	ABBIED600_Rev2_ENG_SP_ModRemCtrl_e	Remote force	E	ABBIED600:2014
LangSel	ABBIED600_Rev4_ENG_SP_Languages_e	Language selection	E	ABBIED600:2014
Contr	ABBIED600_Rev1_ING_SP_1_e	Contrast selection	E	ABBIED600:2014
NumFrm	ABBIED600_Rev1_ING_SP_1_e	NUMf	E	ABBIED600:2014
LgtLivTm	ABBIED600_Rev1_ING_SP_1_e	Backligth timeout	E	ABBIED600:2014
TmFrm	ABBIED600_Rev2_ENG_SP_FormatTime_e	Time format	E	ABBIED600:2014
DateFrm	ABBIED600_Rev2_ENG_SP_FormatDate_e	Date format	E	ABBIED600:2014
NamConvn	ABBIED600_Rev2_ENG_SP_NamingConvention_e	FB naming convention	E	ABBIED600:2014
DftVw	ABBIED600_Rev4_ENG_SP_DefaultView_e	Default view	E	ABBIED600:2014
AcsMod	ABBIED600_Rev2_ENG_SP_WhmiMod_e	Web HMI mode	E	ABBIED600:2014
ConnExpTm	ABBIED600_Rev1_ING_SP_1_e	Web HMI timeout	E	ABBIED600:2014
EvtLstClr	ABBIED600_Rev2_SPC_control_e	Event clear	E	ABBIED600:2014,status-only,direct-with-normal-security
SLDSymFrm	ABBIED600_Rev2_ENG_SP_SLDSymbolFormat_e	SLD symbol format	E	ABBIED600:2014
ScrDlTms	ABBIED600_Rev1_ING_SP_1_e	Autoscroll delay	E	ABBIED600:2014
ClsDlMod	ABBIED600_Rev2_ENG_SP_InUse_e	CB close delay mode	E	ABBIED600:2014
ClsDlTms	ABBIED600_Rev1_ING_SP_1_e	CB close delay	E	ABBIED600:2014
SetVsb	ABBIED600_Rev2_ENG_SP_SetVsb_e	Setting visibility	E	ABBIED600:2014

6.1.3 LN: CBPSOF1 Name: PSOF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD_e	Mode	E	IEC 61850-7-4:2007,status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh_e	Behaviour	E	IEC 61850-7-4:2007
NamPlt	ABBIED600_Rev1_LPL_lnNs_1_e	Name plate	E	IEC 61850-7-4:2007
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Op	ABBIED600_Rev1_ACT_simple_e	Operate	E	IEC 61850-7-4:2007
InStr	ABBIED600_Rev1_SPS	Start from function to be accelerated by SOTF		
InDlStr	ABBIED600_Rev1_SPS	Start from function to be accelerated with delay by SOTF		
InCBCls	ABBIED600_Rev1_SPS	External enabling of SOTF by CB close command		
RsDlTmms	ABBIED600_Rev1_ING_SG_e	Reset Delay Time	E	IEC 61850-7-4:2007
OpDlTmms	ABBIED600_Rev1_ING_SG_e	Operate Delay Time	E	IEC 61850-7-4:2007
TstOutCmd	ABBIED600_Rev20_ENC_TstOut	Test control for outputs		status-only,direct-with-normal-security

6.1.4 LN: GSELPRT1 Name: LPRT (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Beh	ABBIED600_Rev2_ENS_beh_e	Behaviour	E	IEC 61850-7-4:2007
NamPlt	ABBIED600_Rev1_LPL_lnNs_1_e	Name plate	E	IEC 61850-7-4:2007
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	IEC 61850-7-4:2007
CntRs	ABBIED600_Rev2_SPC_control_e	Goose counters reset	E	ABBIED600:2014,status-only,direct-with-normal-security

6.1.5 LN: MMSLPRT1 Name: LPRT (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Beh	ABBIED600_Rev2_ENS_beh_e	Behaviour	E	IEC 61850-7-4:2007
NamPlt	ABBIED600_Rev3_LPL_mms_e	Name plate	E	IEC 61850-7-4:2007
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	IEC 61850-7-4:2007
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: FLTRFRC1 Name: RFRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD_e	Mode	E	IEC 61850-7-4:2007,status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh_e	Behaviour	E	IEC 61850-7-4:2007
NamPlt	ABBIED600_Rev1_LPL_lnNs_1_e	Name plate	E	IEC 61850-7-4:2007
Hz	ABBIED600_Rev3_MV_simple_i_e	Frequency	E	IEC 61850-7-4:2007
FltPtR	ABBIED600_Rev3_MV_simple_i	Fault resistance		
FltDiskm	ABBIED600_Rev3_MV_simple_i_e	Distance to fault measured in pu	E	IEC 61850-7-4:2007
OpCnt	ABBIED600_Rev1_INS_e	time	E	IEC 61850-7-4:2007
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	IEC 61850-7-4:2007
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_Rev2_ENG_SP_MeasMod	A measurement mode		
ProFcn	ABBIED600_Rev21_ENS_ProFcn	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		

6.1.7 LN: MDSOPT1 Name: SOPT (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD_e	Mode	E	IEC 61850-7-4:2007,status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh_e	Behaviour	E	IEC 61850-7-4:2007
NamPlt	ABBIED600_Rev1_LPL_lnNs_1_e	Name plate	E	IEC 61850-7-4:2007
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	IEC 61850-7-4:2007
OpTmh	ABBIED600_Rev1_INS_e	OPR_TIME	E	IEC 61850-7-4:2007

OpTmRs	ABBIED600_Rev2_SPC_control	MDSOPT1 operation t		status-only,direct-with-normal-security
OpTmWrn	ABBIED600_Rev1_SPS_e	Operation time warning	E	IEC 61850-7-4:2007
OpTmAlm	ABBIED600_Rev1_SPS_e	Operation time alarm	E	IEC 61850-7-4:2007
TmOp	ABBIED600_Rev1_SPS	Indicates that operation time is running		
OpWrnTmh	ABBIED600_Rev1_ING_SP_1_e	Warning value for operation time supervision	E	IEC 61850-7-4:2007
OpAlmTmh	ABBIED600_Rev1_ING_SP_1_e	Alarm value for operation time supervision	E	IEC 61850-7-4:2007
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_ENC_TstOut	Test control for outputs		status-only,direct-with-normal-security

6.1.8 LN: CCSPVC1 Name: SPVC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD_e	Mode	E	IEC 61850-7-4:2007,status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh_e	Behaviour	E	IEC 61850-7-4:2007
NamPlt	ABBIED600_Rev1_LPL_lnNs_1_e	Name plate	E	IEC 61850-7-4:2007
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	IEC 61850-7-4:2007
StrVal	ABBIED600_Rev3_ASG_SP_i_e	Minimum operate current differential level	E	IEC 61850-7-4:2007
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_Rev1_ENC_TestSpvn	Test control for outputs		status-only,direct-with-normal-security
DifAClc	ABBIED600_Rev3_WYE_res_simple_i_e	IDIFF	E	IEC 61850-7-4:2007

6.1.9 LN: HZCCSPVC1 Name: SPVC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD_e	Mode	E	IEC 61850-7-4:2007,status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh_e	Behaviour	E	IEC 61850-7-4:2007
NamPlt	ABBIED600_Rev1_LPL_lnNs_1_e	Name plate	E	IEC 61850-7-4:2007
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	IEC 61850-7-4:2007
Alm	ABBIED600_Rev1_SPS_e	Alarm output	E	IEC 61850-7-4:2007
StrVal	ABBIED600_Rev3_ASG_SG_i_e	Start value	E	IEC 61850-7-4:2007
AlmTmms	ABBIED600_Rev1_ING_SG	Alarm delay time		
RsDlTmms	ABBIED600_Rev1_ING_SP_e	Reset Delay Time	E	IEC 61850-7-4:2007
TstOutCmd	ABBIED600_Rev20_ENC_TstOut	Test control for outputs		status-only,direct-with-normal-security
AMeasMod	ABBIED600_Rev2_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

6.1.10 LN: LDPRLRC1 Name: RLRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD_e	Mode	E	IEC 61850-7-4:2007,status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh_e	Behaviour	E	IEC 61850-7-4:2007
NamPlt	ABBIED600_Rev1_LPL_lnNs_1_e	Name plate	E	IEC 61850-7-4:2007
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	IEC 61850-7-4:2007
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		

6.1.11 LN: SEQSPVC1 Name: SPVC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD_e	Mode	E	IEC 61850-7-4:2007,status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh_e	Behaviour	E	IEC 61850-7-4:2007
NamPlt	ABBIED600_Rev1_LPL_lnNs_1_e	Name plate	E	IEC 61850-7-4:2007
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	IEC 61850-7-4:2007
Str	ABBIED600_Rev1_ACD_simple_e	General start of function	E	IEC 61850-7-4:2007
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	IEC 61850-7-4:2007
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	IEC 61850-7-4:2007
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_Rev1_ENC_TestSpvn	SEQSPVC1		status-only,direct-with-normal-security
DeaLinValA	ABBIED600_Rev3_ASG_SP_i	Operate level for open phase current detection		

6.1.12 LN: HZCCASPVC1 Name: SPVC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD_e	Mode	E	IEC 61850-7-4:2007,status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh_e	Behaviour	E	IEC 61850-7-4:2007
NamPlt	ABBIED600_Rev1_LPL_lnNs_1_e	Name plate	E	IEC 61850-7-4:2007
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	IEC 61850-7-4:2007
Alm	ABBIED600_Rev1_SPS_e	Alarm output	E	IEC 61850-7-4:2007
StrVal	ABBIED600_Rev3_ASG_SG_i_e	Start value	E	IEC 61850-7-4:2007
AlmTmms	ABBIED600_Rev1_ING_SG	Alarm delay time		
RsDlTmms	ABBIED600_Rev1_ING_SP_e	Reset Delay Time	E	IEC 61850-7-4:2007
TstOutCmd	ABBIED600_Rev20_ENC_TstOut	Test control for outputs		status-only,direct-with-normal-security
AMeasMod	ABBIED600_Rev2_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

6.1.13 LN: HZCCBSPVC1 Name: SPVC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD_e	Mode	E	IEC 61850-7-4:2007,status-only,direct-with-normal-security

Beh	ABBIED600_Rev2_ENS_beh_e	Behaviour	E	IEC 61850-7-4:2007
NamPlt	ABBIED600_Rev1_LPL_lnNs_1_e	Name plate	E	IEC 61850-7-4:2007
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	IEC 61850-7-4:2007
Alm	ABBIED600_Rev1_SPS_e	Alarm output	E	IEC 61850-7-4:2007
StrVal	ABBIED600_Rev3_ASG_SG_i_e	Start value	E	IEC 61850-7-4:2007
AlmTmms	ABBIED600_Rev1_ING_SG	Alarm delay time		
RsDlTmms	ABBIED600_Rev1_ING_SP_e	Reset Delay Time	E	IEC 61850-7-4:2007
TstOutCmd	ABBIED600_Rev20_ENC_TstOut	Test control for outputs		status-only,direct-with-normal-security
AMeasMod	ABBIED600_Rev2_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

6.1.14 LN: HZCCCSPVC1 Name: SPVC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD_e	Mode	E	IEC 61850-7-4:2007,status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh_e	Behaviour	E	IEC 61850-7-4:2007
NamPlt	ABBIED600_Rev1_LPL_lnNs_1_e	Name plate	E	IEC 61850-7-4:2007
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	IEC 61850-7-4:2007
Alm	ABBIED600_Rev1_SPS_e	Alarm output	E	IEC 61850-7-4:2007
StrVal	ABBIED600_Rev3_ASG_SG_i_e	Start value	E	IEC 61850-7-4:2007
AlmTmms	ABBIED600_Rev1_ING_SG	Alarm delay time		
RsDlTmms	ABBIED600_Rev1_ING_SP_e	Reset Delay Time	E	IEC 61850-7-4:2007
TstOutCmd	ABBIED600_Rev20_ENC_TstOut	Test control for outputs		status-only,direct-with-normal-security
AMeasMod	ABBIED600_Rev2_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

6.1.15 LN: PEAVMMXU1 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		
TotVA	ABBIED600_Rev3_MV_simple_i	Average apparent power		
TotW	ABBIED600_Rev3_MV_simple_i	Average active power		
TotVAr	ABBIED600_Rev3_MV_simple_i	Average reactive power		
TotPF	ABBIED600_Rev3_MV_simple_i	Average power factor		
ClcMod	AB-BIED600_Rev1_ENG_SP_ClcMod	Calculation mode		
ClcMth	ABBIED600_Rev2_ENG_SP_ClcMth	Calculation method of statistical data objects		
ClcSrc	ABBIED600_Rev2_ORG_SP_1	Object reference to source logical node		

6.1.16 LN: PEMAMMXU1 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		
TotVA	ABBIED600_Rev3_MV_simple_i	Maximum apparent power		
TotW	ABBIED600_Rev3_MV_simple_i	Maximum active power		
TotVAr	ABBIED600_Rev3_MV_simple_i	Maximum reactive power		
ClcMod	AB-BIED600_Rev1_ENG_SP_ClcMod	Calculation mode		
ClcMth	ABBIED600_Rev2_ENG_SP_ClcMth	Calculation method of statistical data objects		
ClcSrc	ABBIED600_Rev2_ORG_SP_1	Object reference to source logical node		

6.1.17 LN: PEMIMMXU1 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_Ed2	Name plate		
TotVA	ABBIED600_Rev3_MV_simple_i	Minimum apparent power		

TotW	ABBIED600_Rev3_MV_simple_i	Minimum active power		
TotVAr	ABBIED600_Rev3_MV_simple_i	Minimum reactive power		
ClcMod	AB-BIED600_Rev1_ENG_SP_ClcMod	Calculation mode		
ClcMth	ABBIED600_Rev2_ENG_SP_ClcMth	Calculation method of statistical data objects		
ClcSrc	ABBIED600_Rev2_ORG_SP_1	Object reference to source logical node		

6.1.18 LN: OLATCC1 Name: ATCC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_Of-fOn_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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 Position (stop, lower, higher)		status-only,direct-with-normal-security
ParOp	ABBIED600_Rev2_SPC_control	Parallel/Independent operation		status-only,direct-with-normal-security
LTCBlk	ABBIED600_Rev1_SPC_simple	Block (Inhibit) control 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 secondary current)		
CircA	ABBIED600_Rev3_MV_simple_i	Circulating current		
Auto	ABBIED600_Rev2_SPC_control	Automatic/Manual oper-ation		status-only,direct-with-normal-security
BndCtr	ABBIED600_Rev3_ASG_SG_i	Band center voltage		
BndWid	ABBIED600_Rev3_ASG_SP_i	Band width voltage		
CtlDlTmms	ABBIED600_Rev1_ING_SG	Control intentional time delay 1		
CtlDl2Tmms	ABBIED600_Rev1_ING_SG_e	Control intentional time delay 2	E	ABBIED600:2014
LDCR	ABBIED600_Rev3_ASG_SG_i	Line drop voltage due to line resistance compo-nent		
LDCX	ABBIED600_Rev3_ASG_SG_i	Line drop voltage due to line reactance compo-nent		
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	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_e	Auto parallel mode	E	ABBIED600:2014
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	Voltage setpoint		status-only,direct-with-normal-security
LodPhAng	ABBIED600_Rev3_ASG_SG_i_e	Load phase angle	E	ABBIED600:2014
StabFact	ABBIED600_Rev3_ASG_SG_i_e	Stability	E	ABBIED600:2014
VCtlOpMod	ABBIED600_Rev2_ENG_SP_OpModSetATCC_e	Operation mode	E	ABBIED600:2014
LTCPlsTmms	ABBIED600_Rev1_ING_SP_e	Output pulse	E	ABBIED600:2014
ManBlkTyp	ABBIED600_Rev2_ENG_SP_ManBlkType_e	Manual blocking type	E	ABBIED600:2014
LimCircA	ABBIED600_Rev3_ASG_SP_i_e	Circulating current limit	E	ABBIED600:2014
LimLDC	ABBIED600_Rev3_ASG_SP_i_e	Line Drop Compensation limit	E	ABBIED600:2014
LDCEna	ABBIED600_Rev1_SPG_SP_e	Line Drop Compensation enable	E	ABBIED600:2014
RPFAllw	ABBIED600_Rev1_SPG_SP_e	Reverse power flow allwd	E	ABBIED600:2014
OpTmhMax	ABBIED600_Rev1_ING_SP_1_e	Max operations in 1h	E	ABBIED600:2014
CmdErrTms	ABBIED600_Rev1_ING_SP_1_e	Command error delay	E	ABBIED600:2014
FllwDlTms	ABBIED600_Rev1_ING_SP_1_e	Follower delay	E	ABBIED600:2014

AlmEna	ABBIED600_Rev1_SPG_SP_e	Alarms enabled	E	ABBIED600:2014
CntRs	ABBIED600_Rev2_SPC_control_e	Counter reset	E	ABBIED600:2014,status-only,direct-with-normal-security
TapOpFllw1	ABBIED600_Rev1_INS_e	Change follower 1 tap position command from master (stop, lower, higher)	E	ABBIED600:2014
TapOpFllw2	ABBIED600_Rev1_INS_e	Change follower 2 tap position command from master (stop, lower, higher)	E	ABBIED600:2014
TapOpFllw3	ABBIED600_Rev1_INS_e	Change follower 3 tap position command from master (stop, lower, higher)	E	ABBIED600:2014
LodAVec	ABBIED600_Rev3_CMV_S_1_e	Transmitted current phasor	E	ABBIED600:2014
VMeas	ABBIED600_Rev3_MV_simple_i_e	Voltage, average filtered	E	ABBIED600:2014
AngVAPhA	ABBIED600_Rev3_MV_simple_i_e	Angle U_A-I_A	E	ABBIED600:2014
CtlDlOn	ABBIED600_Rev2_ENS_TimerOn_e	Timer status	E	ABBIED600:2014
CtlOpModSt	ABBIED600_Rev2_ENS_OpModATCC_e	Acting oper mode	E	ABBIED600:2014
CtlVDif	ABBIED600_Rev3_MV_simple_i_e	Voltage difference	E	ABBIED600:2014
ClcLDC	ABBIED600_Rev3_MV_simple_i_e	Calculated Line Drop Compensation	E	ABBIED600:2014
BlkSt	ABBIED600_Rev1_INS_e	Block status	E	ABBIED600:2014
LTCRnbk	ABBIED600_Rev1_SPS_e	Block runback raise voltage	E	ABBIED600:2014
CircAHiBlk	ABBIED600_Rev1_SPS_e	Block circulating current	E	ABBIED600:2014
AlmReas	ABBIED600_Rev2_ENS_AlmReas_e	Alarm reason	E	ABBIED600:2014
FllwFlt	ABBIED600_Rev2_ENS_FllwFlt_e	Failed followers	E	ABBIED600:2014
NumParUnit	ABBIED600_Rev2_ENS_ParUnits_e	Parallel units in MCC	E	ABBIED600:2014
Trf1TapPos	ABBIED600_Rev1_INS_e	Trafo 1 tap position	E	ABBIED600:2014
Trf2TapPos	ABBIED600_Rev1_INS_e	Trafo 2 tap position	E	ABBIED600:2014
Trf3TapPos	ABBIED600_Rev1_INS_e	Trafo 3 tap position	E	ABBIED600:2014
TapChgFllw	ABBIED600_Rev1_INS_e	Change follower tap position (stop, lower, higher)	E	ABBIED600:2014
InConSt	ABBIED600_Rev1_SPS_e	Connection status	E	ABBIED600:2014
InLTCOp	ABBIED600_Rev1_SPS_e	Tap Changer Operating	E	ABBIED600:2014
Trf1A	ABBIED600_Rev3_CMV_S_1_e	Received current from transformer 1	E	ABBIED600:2014
Trf2A	ABBIED600_Rev3_CMV_S_1_e	Received current from transformer 2	E	ABBIED600:2014

Trf3A	ABBIED600_Rev3_CMV_S_1_e	Received current from transformer 3	E	ABBIED600:2014
ParTrfNum	ABBIED600_Rev1_ING_SP_1_e	Parallel trafos	E	ABBIED600:2014
TestCtl	ABBIED600_Rev1_ENC_TestCtl_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
OpTmhNum	ABBIED600_Rev1_INS_e	Controls per last 1h	E	ABBIED600:2014
TapChgR	ABBIED600_Rev1_SPS_e	RAISE_LOCAL	E	ABBIED600:2014
TapChgL	ABBIED600_Rev1_SPS_e	LOWER_LOCAL	E	ABBIED600:2014
CtlDlSt	ABBIED600_Rev1_SPS_e	Timer on	E	ABBIED600:2014
InAuto	ABBIED600_Rev1_SPS_e	Input auto operation	E	ABBIED600:2014
InParOp	ABBIED600_Rev1_SPS_e	Input parallel operation	E	ABBIED600:2014

6.1.19 LN: EFPADM1 Name: PADM (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OfFOn_FD_e	Mode	E	IEC 61850-7-4:2007,status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh_e	Behaviour	E	IEC 61850-7-4:2007
NamPlt	ABBIED600_Rev1_LPL_lnNs_1_e	Name plate	E	IEC 61850-7-4:2007
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	IEC 61850-7-4:2007
Str	ABBIED600_Rev1_ACD_simple_e	Start	E	IEC 61850-7-4:2007
Op	ABBIED600_Rev1_ACT_simple_e	Operate	E	IEC 61850-7-4:2007
VStr	ABBIED600_Rev3_ASG_SG_i_e	Voltage Start Value	E	IEC 61850-7-4:2007
OpDlTmms	ABBIED600_Rev1_ING_SG_e	Operate Delay Time	E	IEC 61850-7-4:2007
StrDur	ABBIED600_Rev3_MV_2	Ratio of start time / operate time		
TstOutCmd	ABBIED600_Rev20_ENC_TstOut	Test control for outputs		status-only,direct-with-normal-security
DirMod	ABBIED600_Rev3_ENG_SG_DirMod_e	Directional Mode	E	IEC 61850-7-4:2007
RsDlTmms	ABBIED600_Rev1_ING_SP_1_e	Reset Delay Time	E	IEC 61850-7-4:2007
OpModAdm	ABBIED600_Rev2_ENG_SG_OpModAdm	Operation mode		
BlkValA	ABBIED600_Rev3_ASG_SP_i_e	Minimum operating current	E	IEC 61850-7-4:2007
BlkValV	ABBIED600_Rev3_ASG_SP_i_e	Minimum operating voltage	E	IEC 61850-7-4:2007
CondTiltAng	ABBIED600_Rev3_ASG_SG_i	Conductance tilt angle		
CondFwd	ABBIED600_Rev3_ASG_SG_i	Conductance forward		

CondRv	ABBIED600_Rev3_ASG_SG_i	Conductance reverse		
SusTiltAng	ABBIED600_Rev3_ASG_SG_i	Susceptance tilt angle		
SusFwd	ABBIED600_Rev3_ASG_SG_i	Susceptance forward		
SusRv	ABBIED600_Rev3_ASG_SG_i	Susceptance reverse		
CirclRd	ABBIED600_Rev3_ASG_SG_i	Circle radius		
CirclCond	ABBIED600_Rev3_ASG_SG_i	Circle conductance		
CirclSus	ABBIED600_Rev3_ASG_SG_i	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		

6.1.20 LN: QVV1RQRC1 Name: RQRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On_e	Mode	E	IEC 61850-7-4:2007,status-only
Beh	ABBIED600_Rev2_ENS_beh_e	Behaviour	E	IEC 61850-7-4:2007
NamPlt	ABBIED600_Rev1_LPL_lnNs_1_e	Name plate	E	IEC 61850-7-4:2007
VVaTyp	ABBIED600_Rev3_ENS_VVaTyp_e	Voltage variation type	E	ABBIED600:2014
VVaPhsA	ABBIED600_Rev3_MV_simple_i_e	VVa Magn phase A of the newest completed event	E	ABBIED600:2014
VVaPhsB	ABBIED600_Rev3_MV_simple_i_e	VVa Magn phase B of the newest completed event	E	ABBIED600:2014
VVaPhsC	ABBIED600_Rev3_MV_simple_i_e	VVa Magn phase C of the newest completed event	E	ABBIED600:2014
VVaTmPhsA	ABBIED600_Rev3_MV_simple_i_e	VVa Phase A Dur of the newest completed event	E	ABBIED600:2014
VVaTmPhsB	ABBIED600_Rev3_MV_simple_i_e	VVa Phase B Dur of the newest completed event	E	ABBIED600:2014

VVaTmPhsC	ABBIED600_Rev3_MV_simple_i_e	VVa Phase C Dur of the newest completed event	E	ABBIED600:2014
APreVaPhsA	ABBIED600_Rev3_MV_simple_i_e	I_A preceding Va start of the newest completed event	E	ABBIED600:2014
APreVaPhsB	ABBIED600_Rev3_MV_simple_i_e	I_B preceding Va start of the newest completed event	E	ABBIED600:2014
APreVaPhsC	ABBIED600_Rev3_MV_simple_i_e	I_C preceding Va start of the newest completed event	E	ABBIED600:2014

6.1.21 LN: QVV2RQRC1 Name: RQRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_ENC_Mod_On_e	Mode	E	IEC 61850-7-4:2007,status-only
Beh	ABBIED600_Rev2_ENS_beh_e	Behaviour	E	IEC 61850-7-4:2007
NamPlt	ABBIED600_Rev1_LPL_lnNs_1_e	Name plate	E	IEC 61850-7-4:2007
VVaTyp	AB-BIED600_Rev3_ENS_VVaTyp_e	Voltage variation type	E	ABBIED600:2014
VVaPhsA	ABBIED600_Rev3_MV_simple_i_e	VVa Magn phase A of the second newest completed event	E	ABBIED600:2014
VVaPhsB	ABBIED600_Rev3_MV_simple_i_e	VVa Magn phase B of the second newest completed event	E	ABBIED600:2014
VVaPhsC	ABBIED600_Rev3_MV_simple_i_e	VVa Magn phase C of the second newest completed event	E	ABBIED600:2014
VVaTmPhsA	ABBIED600_Rev3_MV_simple_i_e	VVa Phase A Dur of the second newest completed event	E	ABBIED600:2014
VVaTmPhsB	ABBIED600_Rev3_MV_simple_i_e	VVa Phase B Dur of the second newest completed event	E	ABBIED600:2014
VVaTmPhsC	ABBIED600_Rev3_MV_simple_i_e	VVa Phase C Dur of the second newest completed event	E	ABBIED600:2014
APreVaPhsA	ABBIED600_Rev3_MV_simple_i_e	I_A preceding Va start of the 2nd newest completed event	E	ABBIED600:2014
APreVaPhsB	ABBIED600_Rev3_MV_simple_i_e	I_B preceding Va start of the 2nd newest completed event	E	ABBIED600:2014
APreVaPhsC	ABBIED600_Rev3_MV_simple_i_e	I_C preceding Va start of the 2nd newest completed event	E	ABBIED600:2014

6.1.22 LN: QVV3RQRC1 Name: RQRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

Mod	AB-BIED600_Rev1_ENC_Mod_On_e	Mode	E	IEC 61850-7-4:2007,status-only
Beh	ABBIED600_Rev2_ENS_beh_e	Behaviour	E	IEC 61850-7-4:2007
NamPlt	ABBIED600_Rev1_LPL_lnNs_1_e	Name plate	E	IEC 61850-7-4:2007
VVaTyp	AB-BIED600_Rev3_ENS_VVaTyp_e	Voltage variation type	E	ABBIED600:2014
VVaPhsA	ABBIED600_Rev3_MV_simple_i_e	VVa Magn phase A of the third newest completed event	E	ABBIED600:2014
VVaPhsB	ABBIED600_Rev3_MV_simple_i_e	VVa Magn phase B of the third newest completed event	E	ABBIED600:2014
VVaPhsC	ABBIED600_Rev3_MV_simple_i_e	VVa Magn phase C of the third newest completed event	E	ABBIED600:2014
VVaTmPhsA	ABBIED600_Rev3_MV_simple_i_e	VVa Phase A Dur of the third newest completed event	E	ABBIED600:2014
VVaTmPhsB	ABBIED600_Rev3_MV_simple_i_e	VVa Phase B Dur of the third newest completed event	E	ABBIED600:2014
VVaTmPhsC	ABBIED600_Rev3_MV_simple_i_e	VVa Phase C Dur of the third newest completed event	E	ABBIED600:2014
APreVaPhsA	ABBIED600_Rev3_MV_simple_i_e	I_A preceding Va start of the 3rd newest completed event	E	ABBIED600:2014
APreVaPhsB	ABBIED600_Rev3_MV_simple_i_e	I_B preceding Va start of the 3rd newest completed event	E	ABBIED600:2014
APreVaPhsC	ABBIED600_Rev3_MV_simple_i_e	I_C preceding Va start of the 3rd newest completed event	E	ABBIED600:2014

6.1.23 LN: QVU1RQRC1 Name: RQRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_ENC_Mod_On_e	Mode	E	IEC 61850-7-4:2007,status-only
Beh	ABBIED600_Rev2_ENS_beh_e	Behaviour	E	IEC 61850-7-4:2007
NamPlt	ABBIED600_Rev1_LPL_lnNs_1_e	Name Plate	E	IEC 61850-7-4:2007
MaxVVa	ABBIED600_Rev3_MV_simple_i_e	Maximum unbalance deviation value	E	IEC 61850-7-4:2007
VVaTm	ABBIED600_Rev3_MV_simple_i_e	Duration of newest high mean unbalance voltage alarm	E	IEC 61850-7-4:2007

6.1.24 LN: QVU2RQRC1 Name: RQRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_ENC_Mod_On_e	Mode	E	IEC 61850-7-4:2007,status-only
Beh	ABBIED600_Rev2_ENS_beh_e	Behaviour	E	IEC 61850-7-4:2007

NamPlt	ABBIED600_Rev1_LPL_lnNs_1_e	Name Plate	E	IEC 61850-7-4:2007
MaxVVa	ABBIED600_Rev3_MV_simple_i_e	Maximum unbalance deviation value	E	IEC 61850-7-4:2007
VVaTm	ABBIED600_Rev3_MV_simple_i_e	Duration of second newest high mean unbalance Volt alarm	E	IEC 61850-7-4:2007

6.1.25 LN: QVU3RQRC1 Name: RQRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_ENC_Mod_On_e	Mode	E	IEC 61850-7-4:2007,status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev1_LPL_lnNs_1_e	Name Plate	E	IEC 61850-7-4:2007
MaxVVa	ABBIED600_Rev3_MV_simple_i_e	Maximum unbalance deviation value	E	IEC 61850-7-4:2007
VVaTm	ABBIED600_Rev3_MV_simple_i_e	Duration of third newest high mean unbalance Volt alarm	E	IEC 61850-7-4:2007

6.1.26 LN: MDSOPT2 Name: SOPT (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD_e	Mode	E	IEC 61850-7-4:2007,status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh_e	Behaviour	E	IEC 61850-7-4:2007
NamPlt	ABBIED600_Rev1_LPL_lnNs_1_e	Name plate	E	IEC 61850-7-4:2007
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	IEC 61850-7-4:2007
OpTmh	ABBIED600_Rev1_INS_e	OPR_TIME	E	IEC 61850-7-4:2007
OpTmRs	ABBIED600_Rev2_SPC_control	MDSOPT2 operation t		status-only,direct-with-normal-security
OpTmWrn	ABBIED600_Rev1_SPS_e	Operation time warning	E	IEC 61850-7-4:2007
OpTmAlm	ABBIED600_Rev1_SPS_e	Operation time alarm	E	IEC 61850-7-4:2007
TmOp	ABBIED600_Rev1_SPS	Indicates that operation time is running		
OpWrnTmh	ABBIED600_Rev1_ING_SP_1_e	Warning value for operation time supervision	E	IEC 61850-7-4:2007
OpAlmTmh	ABBIED600_Rev1_ING_SP_1_e	Alarm value for operation time supervision	E	IEC 61850-7-4:2007
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	AB-BIED600_Rev2_ENG_SP_TmrAlmMod	Operating time mode for warning and alarm		
TstOutCmd	ABBIED600_Rev20_ENC_TstOut	Test control for outputs		status-only,direct-with-normal-security

6.1.27 LN: CCSPVC2 Name: SPVC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD_e	Mode	E	IEC 61850-7-4:2007,status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh_e	Behaviour	E	IEC 61850-7-4:2007
NamPlt	ABBIED600_Rev1_LPL_lnNs_1_e	Name plate	E	IEC 61850-7-4:2007
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	IEC 61850-7-4:2007
StrVal	ABBIED600_Rev3_ASG_SP_i_e	Minimum operate current differential level	E	IEC 61850-7-4:2007
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_Rev1_ENC_TestSpvn_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
DifAClc	ABBIED600_Rev3_WYE_res_simple_i_e	IDIFF	E	IEC 61850-7-4:2007

6.1.28 LN: CTSRCTF1 Name: RCTF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD_e	Mode	E	IEC 61850-7-4:2007,status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh_e	Behaviour	E	IEC 61850-7-4:2007
NamPlt	ABBIED600_Rev1_LPL_lnNs_1_e	Name plate	E	IEC 61850-7-4:2007
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	IEC 61850-7-4:2007
Alm	ABBIED600_Rev1_SPS_e	Alarm output	E	IEC 61850-7-4:2007
Op	ABBIED600_Rev1_ACT_simple_e	CT secondary failure	E	IEC 61850-7-4:2007
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_ENC_TstOut	Test control for outputs		status-only,direct-with-normal-security
BlkValA	ABBIED600_Rev3_ASG_SP_i_e	Minimum operate current	E	IEC 61850-7-4:2007
MaxOpA	ABBIED600_Rev3_ASG_SP_i	Maximum phase current		
MaxNgSeqA	ABBIED600_Rev3_ASG_SP_i	Maximum I2 current in healthy sets		

6.1.29 LN: FLO1RFRC1 Name: RFRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On_e	Mode	E	IEC 61850-7-4:2007,status-only
Beh	ABBIED600_Rev2_ENS_beh_e	Behaviour	E	IEC 61850-7-4:2007
NamPlt	ABBIED600_Rev1_LPL_lnNs_1_e	Name plate	E	IEC 61850-7-4:2007
FltLoop	ABBIED600_Rev4_ENS_FltLoop_e	Fault loop	E	IEC 61850-7-4:2007
FltDiskm	ABBIED600_Rev3_MV_simple_i_e	Fault distance	E	IEC 61850-7-4:2007
FltPtR	ABBIED600_Rev3_MV_simple_i_e	Fault point resistance	E	ABBIED600:2014
FltDisQ	ABBIED600_Rev1_INS_e	Fault distance quality	E	ABBIED600:2014
FltR	ABBIED600_Rev3_MV_simple_i_e	Fault loop resistance	E	ABBIED600:2014
FltX	ABBIED600_Rev3_MV_simple_i_e	Fault loop reactance	E	ABBIED600:2014
PhReact	ABBIED600_Rev3_MV_simple_i_e	Fault phase reactance	E	ABBIED600:2014
RatFltALod	ABBIED600_Rev3_MV_simple_i_e	Fault to load current ratio	E	ABBIED600:2014
EqDisLod	ABBIED600_Rev3_MV_simple_i_e	Estimated equivalent load distance	E	ABBIED600:2014
PhGndCapac	ABBIED600_Rev3_MV_simple_i_e	Estimated PE capacitive reactance of the line	E	ABBIED600:2014
APreFltPhA	ABBIED600_Rev3_CMV_S_1_e	A Pre Flt Phs A	E	ABBIED600:2014
APreFltPhB	ABBIED600_Rev3_CMV_S_1_e	A Pre Flt Phs B	E	ABBIED600:2014
APreFltPhC	ABBIED600_Rev3_CMV_S_1_e	A Pre Flt Phs C	E	ABBIED600:2014
VPreFltPhA	ABBIED600_Rev3_CMV_S_1_e	V Pre Flt Phs A	E	ABBIED600:2014
VPreFltPhB	ABBIED600_Rev3_CMV_S_1_e	V Pre Flt Phs B	E	ABBIED600:2014
VPreFltPhC	ABBIED600_Rev3_CMV_S_1_e	V Pre Flt Phs C	E	ABBIED600:2014
AFltPhA	ABBIED600_Rev3_CMV_S_1_e	A Flt Phs A	E	ABBIED600:2014
AFltPhB	ABBIED600_Rev3_CMV_S_1_e	A Flt Phs B	E	ABBIED600:2014
AFltPhC	ABBIED600_Rev3_CMV_S_1_e	A Flt Phs C	E	ABBIED600:2014
VFltPhA	ABBIED600_Rev3_CMV_S_1_e	V Flt Phs A	E	ABBIED600:2014
VFltPhB	ABBIED600_Rev3_CMV_S_1_e	V Flt Phs B	E	ABBIED600:2014
VFltPhC	ABBIED600_Rev3_CMV_S_1_e	V Flt Phs C	E	ABBIED600:2014

6.1.30 LN: I3CLPRT1 Name: LPRT (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD_e	Mode	E	IEC 61850-7-4:2007,status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh_e	Behaviour	E	IEC 61850-7-4:2007
NamPlt	ABBIED600_Rev1_LPL_lnNs_1_e	Name plate	E	IEC 61850-7-4:2007
CommInt-nOv	ABBIED600_Rev1_SPS	Internal Overflow		
CommPort	ABBIED600_Rev3_ENG_SP_CommPort_ED2	Serial port		
UnitAddr	ABBIED600_Rev1_ING_SP_1	Address		
MapSel	ABBIED600_Rev1_ING_SP_1	Mapping select		
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	IEC 61850-7-4:2007
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

6.1.31 LN: DNPLPRT1 Name: LPRT (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD_e	Mode	E	IEC 61850-7-4:2007,status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh_e	Behaviour	E	IEC 61850-7-4:2007
NamPlt	ABBIED600_Rev1_LPL_lnNs_1_e	Name plate	E	IEC 61850-7-4:2007
CommPort	ABBIED600_Rev3_ENG_SP_CommPort_ED2	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_Rev3_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_DNP-DefVari01	Default Var Obj 01		
DftVa2	ABBIED600_Rev1_ENG_SP_DNP-DefVari02	Default Var Obj 02		
DftVa3	ABBIED600_Rev1_ENG_SP_DNP-DefVari03	Default Var Obj 03		
DftVa4	ABBIED600_Rev1_ENG_SP_DNP-DefVari04	Default Var Obj 04		
DftVa20	ABBIED600_Rev1_ENG_SP_DNP-DefVari20	Default Var Obj 20		
DftVa21	ABBIED600_Rev2_ENG_SP_DNP-DefVari21	Default Var Obj 21		
DftVa22	ABBIED600_Rev1_ENG_SP_DNP-DefVari22	Default Var Obj 22		
DftVa23	ABBIED600_Rev1_ENG_SP_DNP-DefVari23	Default Var Obj 23		
DftVa30	ABBIED600_Rev1_ENG_SP_DNP-DefVari30	Default Var Obj 30		
DftVa32	ABBIED600_Rev1_ENG_SP_DNP-DefVari32	Default Var Obj 32		
DftVa40	ABBIED600_Rev1_ENG_SP_DNP-DefVari40	Default Var Obj 40		
DftVa42	ABBIED600_Rev1_ENG_SP_DNP-DefVari42	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	IEC 61850-7-4:2007
TCPAuth	ABBIED600_Rev1_ENG_SP_TCPAuth	TCP control authority		
TCPPort	ABBIED600_Rev1_ING_SP_1	TCP port		
ChLiv	ABBIED600_Rev1_SPS_e	Status	E	IEC 61850-7-4:2007
CommIntnOv	ABBIED600_Rev1_SPS	Internal Over-flow		
IntnOvCnt	ABBIED600_Rev1_INS	Internal Over-flow Counter		
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 er-rors		
MapErrCnt	ABBIED600_Rev1_INS	Mapping er-rors		
CliIP	ABBIED600_Rev1_VSG_2_20	Client IP ad-dress		
CntRs	ABBIED600_Rev2_SPC_control	Diagnostic counters reset		status-only,direct-with-normal-security

6.1.32 LN: MBSLPRT1 Name: LPRT (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD_e	Mode	E	IEC 61850-7-4:2007,status-only,di-rect-with-normal-se-curity
Beh	ABBIED600_Rev2_ENS_beh_e	Behaviour	E	IEC 61850-7-4:2007
NamPlt	ABBIED600_Rev7_LPL_MBS_ED2_e	Name plate	E	IEC 61850-7-4:2007
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 de-lay 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	IEC 61850-7-4:2007
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_Rev1_VSG_2_20	Control Struct Password 1		
CtlPwd2	ABBIED600_Rev1_VSG_2_20	Control Struct Password 2		
CtlPwd3	ABBIED600_Rev1_VSG_2_20	Control Struct Password 3		
CtlPwd4	ABBIED600_Rev1_VSG_2_20	Control Struct Password 4		
CtlPwd5	ABBIED600_Rev1_VSG_2_20	Control Struct Password 5		
CtlPwd6	ABBIED600_Rev1_VSG_2_20	Control Struct Password 6		
CtlPwd7	ABBIED600_Rev1_VSG_2_20	Control Struct Password 7		
CtlPwd8	ABBIED600_Rev1_VSG_2_20	Control Struct Password 8		
CommPort	ABBIED600_Rev3_ENG_SP_CommPort_ED2	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_Rev1_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

6.1.33 LN: MBMLPRT1 Name: LPRT (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD_e	Mode	E	IEC 61850-7-4:2007,status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh_e	Behaviour	E	IEC 61850-7-4:2007
NamPlt	ABBIED600_Rev1_LPL_lnNs_1_e	Name plate	E	IEC 61850-7-4:2007
MapSel	ABBIED600_Rev1_ING_SP_1	Mapping selection		
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		
FrTxCnt	ABBIED600_Rev1_INS	Number of transmitted frames		
ChkErrCnt	ABBIED600_Rev1_INS	Number of rejected frames		
RxExcpCnt1	ABBIED600_Rev1_INS	Illegal Function or Illegal Address exceptions		
RxExcpCnt2	ABBIED600_Rev1_INS	Illegal Data Value exceptions		
ConnErrCnt	ABBIED600_Rev1_INS	Connection errors		
ChLiv	ABBIED600_Rev1_SPS_e	Communication status	E	IEC 61850-7-4:2007
LnkMod	ABBIED600_Rev2_ENG_SP_LnkMod	Link mode		
SerPty	ABBIED600_Rev2_ENG_SP_SerPty	Serial parity		
CommPort	ABBIED600_Rev3_ENG_SP_CommPort_ED2	Port selection		
CntRs	ABBIED600_Rev2_SPC_control	Diagnostic counters reset		status-only,direct-with-normal-security

6.2 Extended Logical Nodes

6.2.1 LN: LLN0 Name: LLN0 (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On-TestBlock	Test mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		
NamPlt	ABBIED600_Rev8_LPL_LD0_LNN0_ED2	Name plate		
IndLEDRs	ABBIED600_Rev2_SPC_indications_e	Indications and LEDs	E	ABBIED600:2014,status-only,direct-with-normal-security
ProgLEDRs	ABBIED600_Rev2_SPC_indications_e	Programmable LEDs	E	ABBIED600:2014,status-only,direct-with-normal-security
MeasStatRs	ABBIED600_Rev2_SPC_control_e	Reset minimum and maximum demands	E	ABBIED600:2014,status-only,direct-with-normal-security
PQRs	ABBIED600_Rev2_SPC_control_e	Reset all power quality data	E	ABBIED600:2014,status-only,direct-with-normal-security
OpMod-SetGr	ABBIED600_Rev2_ENG_SP_Op-ModSG_e	Operation mode for setting group change	E	ABBIED600:2014
ActSetGr	ABBIED600_Rev2_INC_control_int_e	Active setting group	E	ABBIED600:2014,status-only,direct-with-normal-security
Act1SetGr	ABBIED600_Rev1_SPC_simple_e	Active setting group 1	E	ABBIED600:2014,status-only
Act2SetGr	ABBIED600_Rev1_SPC_simple_e	Active setting group 2	E	ABBIED600:2014,status-only
Act3SetGr	ABBIED600_Rev1_SPC_simple_e	Active setting group 3	E	ABBIED600:2014,status-only
Act4SetGr	ABBIED600_Rev1_SPC_simple_e	Active setting group 4	E	ABBIED600:2014,status-only
Act5SetGr	ABBIED600_Rev1_SPC_simple_e	Active setting group 5	E	ABBIED600:2014,status-only
Act6SetGr	ABBIED600_Rev1_SPC_simple_e	Active setting group 6	E	ABBIED600:2014,status-only
LgcSelSetGr	ABBIED600_Rev1_SPC_simple_e	Logic selection for setting group	E	ABBIED600:2014,status-only
SetSvMaxDl	AB-BIED600_Rev1_ENG_SP_SetSvMaxDl_e	SMV Max Delay	E	ABBIED600:2014
SvMaxDl	ABBIED600_Rev3_MV_simple_i_e	Max Delay	E	ABBIED600:2014
SvAvDl	ABBIED600_Rev3_MV_simple_i_e	Average delay	E	ABBIED600:2014
FcnSt	ABBIED600_Rev1_VSG_2_e	Configuration information	E	ABBIED600:2014
ParChgCnt	ABBIED600_Rev1_INS_retain_e	Number of setting changes	E	ABBIED600:2014

6.2.2 LN: LEDGGIO1 Name: GGIO (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Alm1	ABBIED600_Rev1_SPS_simple	Alarm input for LED 1		
Alm2	ABBIED600_Rev1_SPS_simple	Alarm input for LED 2		
Alm3	ABBIED600_Rev1_SPS_simple	Alarm input for LED 3		
Alm4	ABBIED600_Rev1_SPS_simple	Alarm input for LED 4		
Alm5	ABBIED600_Rev1_SPS_simple	Alarm input for LED 5		
Alm6	ABBIED600_Rev1_SPS_simple	Alarm input for LED 6		
Alm7	ABBIED600_Rev1_SPS_simple	Alarm input for LED 7		
Alm8	ABBIED600_Rev1_SPS_simple	Alarm input for LED 8		
Alm9	ABBIED600_Rev1_SPS_simple	Alarm input for LED 9		
Alm10	ABBIED600_Rev1_SPS_simple	Alarm input for LED 10		
Alm11	ABBIED600_Rev1_SPS_simple	Alarm input for LED 11		
Ind1	ABBIED600_Rev1_SPS_simple	Ok input for LED 1		
Ind2	ABBIED600_Rev1_SPS_simple	Ok input for LED 2		
Ind3	ABBIED600_Rev1_SPS_simple	Ok input for LED 3		
Ind4	ABBIED600_Rev1_SPS_simple	Ok input for LED 4		
Ind5	ABBIED600_Rev1_SPS_simple	Ok input for LED 5		
Ind6	ABBIED600_Rev1_SPS_simple	Ok input for LED 6		
Ind7	ABBIED600_Rev1_SPS_simple	Ok input for LED 7		
Ind8	ABBIED600_Rev1_SPS_simple	Ok input for LED 8		
Ind9	ABBIED600_Rev1_SPS_simple	Ok input for LED 9		
Ind10	ABBIED600_Rev1_SPS_simple	Ok input for LED 10		
Ind11	ABBIED600_Rev1_SPS_simple	Ok input for LED 11		

LEDSt1	ABBIED600_Rev4_ENC_control_led_e	LED 1	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt2	ABBIED600_Rev4_ENC_control_led_e	LED 2	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt3	ABBIED600_Rev4_ENC_control_led_e	LED 3	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt4	ABBIED600_Rev4_ENC_control_led_e	LED 4	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt5	ABBIED600_Rev4_ENC_control_led_e	LED 5	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt6	ABBIED600_Rev4_ENC_control_led_e	LED 6	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt7	ABBIED600_Rev4_ENC_control_led_e	LED 7	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt8	ABBIED600_Rev4_ENC_control_led_e	LED 8	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt9	ABBIED600_Rev4_ENC_control_led_e	LED 9	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt10	ABBIED600_Rev4_ENC_control_led_e	LED 10	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt11	ABBIED600_Rev4_ENC_control_led_e	LED 11	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSeq1	ABBIED600_Rev3_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LEDSeq2	ABBIED600_Rev3_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LEDSeq3	ABBIED600_Rev3_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LEDSeq4	ABBIED600_Rev3_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LEDSeq5	ABBIED600_Rev3_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LEDSeq6	ABBIED600_Rev3_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LEDSeq7	ABBIED600_Rev3_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LEDSeq8	ABBIED600_Rev3_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LEDSeq9	ABBIED600_Rev3_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LEDSeq10	ABBIED600_Rev3_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LEDSeq11	ABBIED600_Rev3_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
InRsLED1	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 1	E	ABBIED600:2014
InRsLED2	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 2	E	ABBIED600:2014

InRsLED3	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 3	E	ABBIED600:2014
InRsLED4	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 4	E	ABBIED600:2014
InRsLED5	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 5	E	ABBIED600:2014
InRsLED6	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 6	E	ABBIED600:2014
InRsLED7	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 7	E	ABBIED600:2014
InRsLED8	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 8	E	ABBIED600:2014
InRsLED9	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 9	E	ABBIED600:2014
InRsLED10	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 10	E	ABBIED600:2014
InRsLED11	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 11	E	ABBIED600:2014
AlmColr	ABBIED600_Rev3_ENG_SP_Led-Color_e	Alarm colour	E	ABBIED600:2014

6.2.3 LN: GNRLLTMS1 Name: LTMS (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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_ENS_TmSyn	Time synchronized according to IEC 61850-9-2		
TmChSt1	ABBIED600_Rev1_SPS	Time channel status (up/down)		
TmSrcSel1	AB-BIED600_Rev6_ENG_SP_SyncSrc_e	Time source setting (“1588” in case the time source is a IEEE 1588 source or dotted IP-ad-dress)	E	AB-BIED600:2014
TmSrcSt	ABBIED600_Rev4_ENS_TmSrc_e	Current time source	E	AB-BIED600:2014
DomId	ABBIED600_Rev1_ING_SP_1_e	The domain is identified by an integer, the domainNumber, in the range of 0 to 255.	E	AB-BIED600:2014
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	IEC 61850-7-4:2007
Wrn	ABBIED600_Rev1_SPS_e	Warning	E	IEC 61850-7-4:2007
PTPTmSrc	AB-BIED600_Rev2_ENS_PTPTmSrc_e	GrandMaster timeSource enum according to PTPv2	E	AB-BIED600:2014
PTPClkAcc	AB-BIED600_Rev2_ENS_PTPClkAcc_e	Grandmaster clockAccuracy enum according to PTPv2	E	AB-BIED600:2014

LocClkAcc	ABBIED600_Rev1_INS_e	Local clock accuracy (master + IED synch accuracy)[us]	E	AB-BIED600:2014
MaxDevAcc	ABBIED600_Rev1_INS_e	Maximum deviation of the Local synch accuracy [us]	E	AB-BIED600:2014
PTPPrio1	ABBIED600_Rev1_ING_SP_1_e	PTP priority 1, in the range of 0 to 255.	E	AB-BIED600:2014
PTPPrio2	ABBIED600_Rev1_ING_SP_1_e	PTP priority 2, in the range of 0 to 255.	E	AB-BIED600:2014
MstrId	ABBIED600_Rev1_VSG_1_20_e	Grandmaster Identity octet string according to PTPv2	E	AB-BIED600:2014
IPAd-drSNTP1	ABBIED600_Rev1_VSG_2_20_e	IP address for SNTP primary server	E	AB-BIED600:2014
IPAd-drSNTP2	ABBIED600_Rev1_VSG_2_20_e	IP address for SNTP secondary server	E	AB-BIED600:2014

6.2.4 LN: GNRLLTIM1 Name: LTIM (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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_SG	DST usage setting		
TmChgDT	ABBIED600_Rev2_TSG_SP_set-Cal	Local time of next change to day-light saving time		
TmChgST	ABBIED600_Rev2_TSG_SP_set-Cal	Local time of next change to stand-ard time		
TmSys	ABBIED600_Rev1_VSG_2_20_e	System time	E	AB-BIED600:2014
DateSys	ABBIED600_Rev1_VSG_2_20_e	System date	E	AB-BIED600:2014
TmOfsDT	ABBIED600_Rev1_ING_SP_1_e	Daylight saving time offset	E	AB-BIED600:2014

6.2.5 LN: CMMXU1 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_Of-fOn_FD	Operation		status-only,direct-with-nor-mal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
A	AB-BIED600_Rev3_WYE_threephase_full_i	Phase currents		
AMeas-Mod	ABBIED600_Rev2_ENG_SP_Meas-Mod_e	Selects used meas-urement mode	E	ABBIED600:2014
NumPh	AB-BIED600_Rev2_ENG_SP_StrPhSel_e	Number of phases required by limit su-pervision	E	ABBIED600:2014

HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	ABBIED600:2014
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	ABBIED600:2014
LoWrn	ABBIED600_Rev1_SPS_e	Low warning	E	ABBIED600:2014
LoAlm	ABBIED600_Rev1_SPS_e	Low alarm	E	ABBIED600:2014
RcdRs	ABBIED600_Rev2_SPC_control_e	CMMXU1 demands	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.6 LN: RESCMMXU1 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
A	ABBIED600_Rev3_WYE_res_full_i	Residual current		
AMeasMod	ABBIED600_Rev2_ENG_SP_MeasMod_e	Selects used measurement mode	E	ABBIED600:2014
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	ABBIED600:2014
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	ABBIED600:2014
RcdRs	ABBIED600_Rev2_SPC_control_e	RESCMMXU1 demands	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.7 LN: PHLPTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv	Type of Reset Curve		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		

InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	ABBIED600:2014
NumPh	ABBIED600_Rev2_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	ABBIED600:2014
StrValMult	ABBIED600_Rev3_ASG_SG_i_e	Multiplier for scaling the start value	E	ABBIED600:2014
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
AMeasMod	ABBIED600_Rev2_ENG_SP_MeasMod_e	Measuring mode	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.8 LN: PHHPTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv	Type of Reset Curve		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	ABBIED600:2014
NumPh	ABBIED600_Rev2_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	ABBIED600:2014
StrValMult	ABBIED600_Rev3_ASG_SG_i_e	Multiplier for scaling the start value	E	ABBIED600:2014
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
AMeasMod	ABBIED600_Rev2_ENG_SP_MeasMod_e	Measuring mode	E	ABBIED600:2014

TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.9 LN: PHHPTOC2 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv	Type of Reset Curve		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	ABBIED600:2014
NumPh	ABBIED600_Rev2_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	ABBIED600:2014
StrValMult	ABBIED600_Rev3_ASG_SG_i_e	Multiplier for scaling the start value	E	ABBIED600:2014
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
AMeasMod	ABBIED600_Rev2_ENG_SP_MeasMod_e	Measuring mode	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.10 LN: PHIPTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		

Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	ABBIED600:2014
NumPh	AB-BIED600_Rev2_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	ABBIED600:2014
StrValMult	ABBIED600_Rev3_ASG_SG_i_e	Multiplier for scaling the start value	E	ABBIED600:2014
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.11 LN: NSPTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
TypRsCrv	AB-BIED600_Rev3_ENG_SG_TypRsCrv	Type of Reset Curve		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	ABBIED600:2014
StrValMult	ABBIED600_Rev3_ASG_SG_i_e	Multiplier for scaling the start value	E	ABBIED600:2014

StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.12 LN: NSPTOC2 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OfFOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv	Type of Reset Curve		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	ABBIED600:2014
StrValMult	ABBIED600_Rev3_ASG_SG_i_e	Multiplier for scaling the start value	E	ABBIED600:2014
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.13 LN: PDNSPTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OfFOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		

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	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG	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	IEC 61850-7-4:2007
MinPhA	ABBIED600_Rev3_ASG_SP_i_e	Minimum phase current	E	ABBIED600:2014
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.14 LN: T1PTTR1 Name: PTTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
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	Operate level temperature		
ConsTms1	ABBIED600_Rev1_ING_SG	Time constant for thermal model		
AlmVal	ABBIED600_Rev3_ASG_SG_i	Alarm level temperature		
RsTmp	ABBIED600_Rev2_SPC_control_e	Reset temperature	E	ABBIED600:2014,status-only,direct-with-normal-security
InEnaMult	ABBIED600_Rev1_SPS_e	Enable multiplier for reference setting	E	ABBIED600:2014
BlkThm	ABBIED600_Rev1_SPS	Block reclose signal		
TmpUsed	ABBIED600_Rev3_MV_simple_i_e	The ambient temperature used in the calculation	E	ABBIED600:2014

TmpAmb	ABBIED600_Rev3_MV_simple_i_e	Ambient temperature	E	ABBIED600:2014
OpTm	ABBIED600_Rev1_INS_e	Estimated time to operate	E	ABBIED600:2014
BlkThmRsTm	ABBIED600_Rev1_INS_e	Estimated time to deactivate BLK_CLOSE	E	ABBIED600:2014
AMult	ABBIED600_Rev1_ING_SG_e	Current reference multiplier for thermal model	E	ABBIED600:2014
ARef	ABBIED600_Rev3_ASG_SG_i_e	Current reference for thermal model	E	ABBIED600:2014
EnvTmpSet	ABBIED600_Rev3_ASG_SG_i_e	Ambient temperature	E	ABBIED600:2014
IniTmp	ABBIED600_Rev3_ASG_SP_i_e	Temperature calculation initial value	E	ABBIED600:2014
RecTmpSet	ABBIED600_Rev3_ASG_SG_i_e	Temperature for reset of BLK_CLOSE after operate	E	ABBIED600:2014
TmpR	ABBIED600_Rev3_ASG_SG_i_e	Temperature rise	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.15 LN: INRPHAR1 Name: PHAR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_threephase	Start		
PhStr	ABBIED600_Rev3_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.16 LN: CCBRBRF1 Name: RBRF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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	E	IEC 61850-7-4:2007
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	E	IEC 61850-7-4:2007
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
DetValARes	ABBIED600_Rev3_ASG_SP_i_e	Current Detector Value for residual current	E	ABBIED600:2014
AMeasMod	ABBIED600_Rev2_ENG_SP_MeasMod_e	Measurement mode selection (current): 2= DFT; 3= Peak-to-Peak	E	ABBIED600:2014
CBAlmTmms	ABBIED600_Rev1_ING_SP_e	Circuit breaker faulty alarm delay	E	ABBIED600:2014
OpExMod	ABBIED600_Rev2_ENG_SP_buTripMode_e	Select type of backup trip logic	E	ABBIED600:2014
InStr	ABBIED600_Rev1_SPS_e	CBFP start command	E	ABBIED600:2014
InPosCls	ABBIED600_Rev1_SPS_e	CB in closed poisition	E	ABBIED600:2014
InCBFlt	ABBIED600_Rev1_SPS_e	CB faulty and unable to trip	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
StrLtcMod	ABBIED600_Rev2_ENG_SP_StrLtcMod_e	Start reset delayed or immediately	E	ABBIED600:2014

6.2.17 LN: TRPPTRC1 Name: PTRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	BLOCK		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
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	ABBIED600:2014
LORs	ABBIED600_Rev2_SPC_indica-tions_e	RST_LKOUT	E	ABBIED600:2014,status-only,direct-with-normal-secu-rity
TrRs	ABBIED600_Rev2_SPC_indica-tions_e	Reset latched trip	E	ABBIED600:2014,status-only,direct-with-normal-secu-rity
ClsLO	ABBIED600_Rev1_SPS_e	Circuit breaker lock-out output (set until reset)	E	ABBIED600:2014

6.2.18 LN: TRPPTRC2 Name: PTRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_Of-fOn_FD	BLOCK		status-only,direct-with-nor-mal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all bi-nary outputs		
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	ABBIED600:2014
LORs	ABBIED600_Rev2_SPC_indica-tions_e	RST_LKOUT	E	ABBIED600:2014,status-only,direct-with-normal-secu-rity
TrRs	ABBIED600_Rev2_SPC_indica-tions_e	Reset latched trip	E	ABBIED600:2014,status-only,direct-with-normal-secu-rity
ClsLO	ABBIED600_Rev1_SPS_e	Circuit breaker lock-out output (set until reset)	E	ABBIED600:2014

6.2.19 LN: LEDPTRC1 Name: PTRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_Of-fOn_FD	Mode		status-only,direct-with-normal-se-curity
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Op	ABBIED600_Rev1_ACT_full	Operate		
Str	ABBIED600_Rev1_ACD_full	Start		

InRs	ABBIED600_Rev1_SPS_simple_e	Reset	E	ABBIED600:2014
InOp	ABBIED600_Rev1_SPS_dU_e	Input operate	E	ABBIED600:2014
InStr	ABBIED600_Rev1_SPS_dU_e	Input start	E	ABBIED600:2014

6.2.20 LN: TCSSCBR1 Name: SCBR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
OpDlTmms	ABBIED600_Rev1_ING_SP_1_e	Operate Delay Time	E	IEC 61850-7-4:2007
RsDlTmms	ABBIED600_Rev1_ING_SP_1_e	Reset Delay Time	E	IEC 61850-7-4:2007
CircAlm	ABBIED600_Rev1_SPS_e	Alarm	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		

6.2.21 LN: TCSSCBR2 Name: SCBR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
OpDlTmms	ABBIED600_Rev1_ING_SP_1_e	Operate Delay Time	E	IEC 61850-7-4:2007
RsDlTmms	ABBIED600_Rev1_ING_SP_1_e	Reset Delay Time	E	IEC 61850-7-4:2007
CircAlm	ABBIED600_Rev1_SPS_e	Alarm	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		

6.2.22 LN: TPGAPC1 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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	E	ABBIED600:2014

6.2.23 LN: TPGAPC2 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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	E	ABBIED600:2014

6.2.24 LN: TPGAPC3 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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	E	ABBIED600:2014

6.2.25 LN: TPGAPC4 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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	E	ABBIED600:2014

6.2.26 LN: ESMGAPC1 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Emergency start		

Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i	Motor standstill A		
RqEmgStr	ABBIED600_Rev1_SPS_e	ST_EMERG_RQ	E	ABBIED600:2014
TstOutCmd	AB-BIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.27 LN: STTPMSS1 Name: PMSS (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	BLOCK		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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	Current value to indicate starting of motor		
LokRotTms	ABBIED600_Rev1_ING_SG	Lock Rotor Time, permissible locked rotor time		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
OpModStUp	ABBIED600_Rev2_ENG_SP_OpModStUp_e	Motor start-up operation mode	E	ABBIED600:2014
StrOvDlTmms	ABBIED600_Rev1_ING_SG_e	Time delay to check for completion of motor startup period	E	ABBIED600:2014
StrDur	ABBIED600_Rev3_MV_simple_i_e	Start time relative to the operate time for stall cond	E	ABBIED600:2014
EnaEmgStr	ABBIED600_Rev1_SPS_e	Enable emergency start to disable lock of start motor	E	ABBIED600:2014
StlInd	ABBIED600_Rev1_SPS_e	Input signal for showing the motor is not stalling	E	ABBIED600:2014
BlkLOStr	ABBIED600_Rev1_SPS_e	Blocks lock out condition for restart of motor	E	ABBIED600:2014
InPosCls	ABBIED600_Rev1_SPS_e	Input showing the status of motor circuit breaker	E	ABBIED600:2014
TestPro	ABBIED600_Rev1_ENC_TestPro_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

MotStop	ABBIED600_Rev3_ASG_SP_i_e	Current limit to check for motor standstill condition	E	ABBIED600:2014

6.2.28 LN: STTPMRI1 Name: PMRI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Op	ABBIED600_Rev1_ACT_simple	Operate/trip signal for thermal stress.		
StrInh	ABBIED600_Rev1_SPS	Lock out condition for restart of motor.		
StrInhTmm	ABBIED600_Rev1_INS	Time left for restart when lockstart is enabled in minutes		
SetA	ABBIED600_Rev3_ASG_SG_i	Motor starting current		
SetTms	ABBIED600_Rev1_ING_SG	Motor starting time		
InhTmm	ABBIED600_Rev1_ING_SP_1	Time delay between consecutive startups		
StrUpCntRs	ABBIED600_Rev2_INC_control_int_e	Number of motor start-ups occurred	E	ABBIED600:2014,status-only,direct-with-normal-security
CntRedRte	ABBIED600_Rev3_ASG_SP_i_e	Start time counter reduction rate	E	ABBIED600:2014
EmgRedRte	ABBIED600_Rev3_ASG_SP_i_e	Start time reduction factor when emergency start is On	E	ABBIED600:2014
ThmStsPct	ABBIED600_Rev3_MV_simple_i_e	Thermal stress relative to set maximum thermal stress	E	ABBIED600:2014
TmsCum-StrUp	ABBIED600_Rev3_MV_simple_i_e	Cumulated start-up time in sec	E	ABBIED600:2014
TmsStrUp	ABBIED600_Rev3_MV_simple_i_e	Measured motor latest startup time in sec	E	ABBIED600:2014
CumLimTms	ABBIED600_Rev1_ING_SP_1_e	Cumulative time based restart inhibit limit	E	ABBIED600:2014
RsStrUpCnt	ABBIED600_Rev2_SPC_control_e	Reset number of motor start-ups counter	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.29 LN: PREVPTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	PREVPTOC1		

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	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate time delay		
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TstOutCmd	AB-BIED600_Rev20_ENC_TstOut_e	PREVPTOC1	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.30 LN: JAMPTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_Of-fOn_FD	Mode		status-only,direct-with-normal-se-curity
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary out-puts		
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	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,di-rect-with-normal-security

6.2.31 LN: MPTTR1 Name: PTTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_Of-fOn_FD	Mode		status-only,direct-with-nor-mal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all bi-nary outputs		
TmpRl	ABBIED600_Rev3_MV_simple_i	THERMLEV		
Op	ABBIED600_Rev1_ACT_simple	Operate		
AlmThm	ABBIED600_Rev1_SPS	Thermal Alarm		
ConsTms1	ABBIED600_Rev1_ING_SG	Time constant normal		
ConsTms2	ABBIED600_Rev1_ING_SG	Motor time constant during the start of mo-tor		

ConsTms3	ABBIED600_Rev1_ING_SG	Motor time constant during the standstill condition of motor		
AlmVal	ABBIED600_Rev3_ASG_SG_i	Alarm thermal value		
BlkThm	ABBIED600_Rev1_SPS	Restart inhibited		
ARef	ABBIED600_Rev3_ASG_SP_i_e	Rated current (FLC) of the motor	E	ABBIED600:2014
RsTmp	ABBIED600_Rev2_SPC_control_e	MPTTR1 temperature	E	ABBIED600:2014,status-only,direct-with-normal-security
DropoutVal	ABBIED600_Rev3_ASG_SG_i	Restart thermal Val		
WghFact	ABBIED600_Rev3_ASG_SG_i_e	Weighting factor	E	ABBIED600:2014
OvlFact	ABBIED600_Rev3_ASG_SG_i_e	Overload factor (k)	E	ABBIED600:2014
NgSeqFact	ABBIED600_Rev3_ASG_SG_i_e	Heating effect factor for negative sequence current	E	ABBIED600:2014
EnvTmpSet	ABBIED600_Rev3_ASG_SG_i_e	Ambient temperature	E	ABBIED600:2014
IniTmp	ABBIED600_Rev3_ASG_SP_i_e	Initial thermal Val	E	ABBIED600:2014
EnvTmp-Mod	ABBIED600_Rev2_ENG_SG_En-vTmpMod_e	Mode of measuring ambient temperature	E	ABBIED600:2014
EnaEmgStr	ABBIED600_Rev1_SPS_e	Enable emergency start to disable lock of start motor	E	ABBIED600:2014
TmpUsed	ABBIED600_Rev3_MV_simple_i_e	The ambient temperature used in the calculation	E	ABBIED600:2014
TmpAmb	ABBIED600_Rev3_MV_simple_i_e	Ambient temperature	E	ABBIED600:2014
ThmLevStr	ABBIED600_Rev3_MV_simple_i_e	Thermal level at beginning of motor startup	E	ABBIED600:2014
ThmLevEnd	ABBIED600_Rev3_MV_simple_i_e	Thermal level at the end of motor startup situation	E	ABBIED600:2014
BlkThmTms	ABBIED600_Rev1_INS_e	Estimated time to reset of block restart	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	MPTTR1	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.32 LN: LOFLPTUC1 Name: PTUC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_Of-fOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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	Current setting/Start value high		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
BlkValA	ABBIED600_Rev3_ASG_SG_i_e	Current setting/Start value low	E	IEC 61850-7-4:2007
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.33 LN: EFLPTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OfFOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv	Type of Reset Curve		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
AMeasMod	ABBIED600_Rev2_ENG_SP_MeasMod_e	Measurement mode selection	E	ABBIED600:2014
StrValMult	ABBIED600_Rev3_ASG_SG_i_e	Multiplier for operate current level	E	ABBIED600:2014
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
InEnaMult	ABBIED600_Rev1_SPS_e	Enable current multiplier	E	ABBIED600:2014

TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
AResSigSel	ABBIED600_Rev2_ENG_SP_AResSig-Sel_e	Selection for used Io signal	E	ABBIED600:2014

6.2.34 LN: EFHPTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_Of-fOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary out-puts		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i	Time Dial Mul-tiplier		
MinOpTmms	ABBIED600_Rev1_ING_SP_1	Minimum Op-erate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
TypRsCrv	AB-BIED600_Rev3_ENG_SG_TypRsCrv	Type of Reset Curve		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
AMeasMod	ABBIED600_Rev2_ENG_SP_Meas-Mod_e	Measurement mode selection	E	ABBIED600:2014
StrValMult	ABBIED600_Rev3_ASG_SG_i_e	Multiplier for operate current level	E	ABBIED600:2014
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
InEnaMult	ABBIED600_Rev1_SPS_e	Enable current multiplier	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
AResSigSel	ABBIED600_Rev2_ENG_SP_AResSig-Sel_e	Selection for used Io signal	E	ABBIED600:2014

6.2.35 LN: XGGIO100 Name: GGIO (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_OnOff_No-Blk	Mode		status-only,direct-with-nor-mal-security

Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
SPCSO1	ABBIED600_Rev2_SPC_control	X100-Output 1		status-only,direct-with-normal-security
SPCSO2	ABBIED600_Rev2_SPC_control	X100-Output 2		status-only,direct-with-normal-security
SPCSO3	ABBIED600_Rev2_SPC_control	X100-Output 3		status-only,direct-with-normal-security
SPCSO4	ABBIED600_Rev2_SPC_control	X100-Output 4		status-only,direct-with-normal-security
SPCSO5	ABBIED600_Rev2_SPC_control	X100-Output 5		status-only,direct-with-normal-security
SPCSO6	ABBIED600_Rev2_SPC_control	X100-Output 6		status-only,direct-with-normal-security
CardNam	ABBIED600_Rev7_DPL_eeprom_2_ED2_e	Card information	E	ABBIED600:2014
HwId	ABBIED600_Rev1_LPL_VSS_1_20_e	HW module	E	ABBIED600:2014
TestStaId	ABBIED600_Rev1_LPL_VSS_dU_20_e	Testing	E	ABBIED600:2014

6.2.36 LN: HIPDIF1 Name: PDIF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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	Low operate value, percentage of the nominal current		
MinOpTmms	ABBIED600_Rev1_ING_SG	Minimum Operate Time		
RsDlTmms	ABBIED600_Rev1_ING_SP	Reset Delay Time		
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev1_ENC_TestPro_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.37 LN: ISWGAPC1 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
SPCSO1	ABBIED600_Rev1_SPC_simple_dU	Output1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple_dU	Output2		status-only
SPCSO3	ABBIED600_Rev1_SPC_simple_dU	Output3		status-only

SPCSO4	ABBIED600_Rev1_SPC_simple_dU	Output4		status-only
SPCSO5	ABBIED600_Rev1_SPC_simple_dU	Output5		status-only
SPCSO6	ABBIED600_Rev1_SPC_simple_dU	Output6		status-only
SPCSO7	ABBIED600_Rev1_SPC_simple_dU	Output7		status-only
SPCSO8	ABBIED600_Rev1_SPC_simple_dU	Output8		status-only
SPCSO9	ABBIED600_Rev1_SPC_simple_dU	Output9		status-only
SPCSO10	ABBIED600_Rev1_SPC_simple_dU	Output10		status-only
SPCSO11	ABBIED600_Rev1_SPC_simple_dU	Output11		status-only
SPCSO12	ABBIED600_Rev1_SPC_simple_dU	Output12		status-only
SPCSO13	ABBIED600_Rev1_SPC_simple_dU	Output13		status-only
SPCSO14	ABBIED600_Rev1_SPC_simple_dU	Output14		status-only
SPCSO15	ABBIED600_Rev1_SPC_simple_dU	Output15		status-only
SPCSO16	ABBIED600_Rev1_SPC_simple_dU	Output16		status-only
SPCSO17	ABBIED600_Rev1_SPC_simple_dU	Output17		status-only
SPCSO18	ABBIED600_Rev1_SPC_simple_dU	Output18		status-only
SPCSO19	ABBIED600_Rev1_SPC_simple_dU	Output19		status-only
SPCSO20	ABBIED600_Rev1_SPC_simple_dU	Output20		status-only
Ind1	ABBIED600_Rev1_SPS_dU	Input		
Out1Conn	ABBIED600_Rev1_SPG_SP_e	Connect In with Out1 signal	E	ABBIED600:2014
Out2Conn	ABBIED600_Rev1_SPG_SP_e	Connect In with Out2 signal	E	ABBIED600:2014
Out3Conn	ABBIED600_Rev1_SPG_SP_e	Connect In with Out3 signal	E	ABBIED600:2014
Out4Conn	ABBIED600_Rev1_SPG_SP_e	Connect In with Out4 signal	E	ABBIED600:2014
Out5Conn	ABBIED600_Rev1_SPG_SP_e	Connect In with Out5 signal	E	ABBIED600:2014
Out6Conn	ABBIED600_Rev1_SPG_SP_e	Connect In with Out6 signal	E	ABBIED600:2014
Out7Conn	ABBIED600_Rev1_SPG_SP_e	Connect In with Out7 signal	E	ABBIED600:2014
Out8Conn	ABBIED600_Rev1_SPG_SP_e	Connect In with Out8 signal	E	ABBIED600:2014
Out9Conn	ABBIED600_Rev1_SPG_SP_e	Connect In with Out9 signal	E	ABBIED600:2014
Out10Conn	ABBIED600_Rev1_SPG_SP_e	Connect In with Out10 signal	E	ABBIED600:2014
Out11Conn	ABBIED600_Rev1_SPG_SP_e	Connect In with Out11 signal	E	ABBIED600:2014
Out12Conn	ABBIED600_Rev1_SPG_SP_e	Connect In with Out12 signal	E	ABBIED600:2014
Out13Conn	ABBIED600_Rev1_SPG_SP_e	Connect In with Out13 signal	E	ABBIED600:2014
Out14Conn	ABBIED600_Rev1_SPG_SP_e	Connect In with Out14 signal	E	ABBIED600:2014
Out15Conn	ABBIED600_Rev1_SPG_SP_e	Connect In with Out15 signal	E	ABBIED600:2014
Out16Conn	ABBIED600_Rev1_SPG_SP_e	Connect In with Out16 signal	E	ABBIED600:2014
Out17Conn	ABBIED600_Rev1_SPG_SP_e	Connect In with Out17 signal	E	ABBIED600:2014
Out18Conn	ABBIED600_Rev1_SPG_SP_e	Connect In with Out18 signal	E	ABBIED600:2014
Out19Conn	ABBIED600_Rev1_SPG_SP_e	Connect In with Out19 signal	E	ABBIED600:2014
Out20Conn	ABBIED600_Rev1_SPG_SP_e	Connect In with Out20 signal	E	ABBIED600:2014

6.2.38 LN: OSWGAPC1 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		

Ind1	ABBIED600_Rev1_SPS_dU	Input1		
Ind2	ABBIED600_Rev1_SPS_dU	Input2		
Ind3	ABBIED600_Rev1_SPS_dU	Input3		
Ind4	ABBIED600_Rev1_SPS_dU	Input4		
Ind5	ABBIED600_Rev1_SPS_dU	Input5		
Ind6	ABBIED600_Rev1_SPS_dU	Input6		
Ind7	ABBIED600_Rev1_SPS_dU	Input7		
Ind8	ABBIED600_Rev1_SPS_dU	Input8		
Ind9	ABBIED600_Rev1_SPS_dU	Input9		
Ind10	ABBIED600_Rev1_SPS_dU	Input10		
Ind11	ABBIED600_Rev1_SPS_dU	Input11		
Ind12	ABBIED600_Rev1_SPS_dU	Input12		
Ind13	ABBIED600_Rev1_SPS_dU	Input13		
Ind14	ABBIED600_Rev1_SPS_dU	Input14		
Ind15	ABBIED600_Rev1_SPS_dU	Input15		
Ind16	ABBIED600_Rev1_SPS_dU	Input16		
Ind17	ABBIED600_Rev1_SPS_dU	Input17		
Ind18	ABBIED600_Rev1_SPS_dU	Input18		
Ind19	ABBIED600_Rev1_SPS_dU	Input19		
Ind20	ABBIED600_Rev1_SPS_dU	Input20		
SPCSO1	ABBIED600_Rev1_SPC_simple_dU	Output		status-only
Ind1Conn	ABBIED600_Rev1_SPG_SP_e	Connect input In1	E	ABBIED600:2014
Ind2Conn	ABBIED600_Rev1_SPG_SP_e	Connect input In2	E	ABBIED600:2014
Ind3Conn	ABBIED600_Rev1_SPG_SP_e	Connect input In3	E	ABBIED600:2014
Ind4Conn	ABBIED600_Rev1_SPG_SP_e	Connect input In4	E	ABBIED600:2014
Ind5Conn	ABBIED600_Rev1_SPG_SP_e	Connect input In5	E	ABBIED600:2014
Ind6Conn	ABBIED600_Rev1_SPG_SP_e	Connect input In6	E	ABBIED600:2014
Ind7Conn	ABBIED600_Rev1_SPG_SP_e	Connect input In7	E	ABBIED600:2014
Ind8Conn	ABBIED600_Rev1_SPG_SP_e	Connect input In8	E	ABBIED600:2014
Ind9Conn	ABBIED600_Rev1_SPG_SP_e	Connect input In9	E	ABBIED600:2014
Ind10Conn	ABBIED600_Rev1_SPG_SP_e	Connect input In10	E	ABBIED600:2014
Ind11Conn	ABBIED600_Rev1_SPG_SP_e	Connect input In11	E	ABBIED600:2014
Ind12Conn	ABBIED600_Rev1_SPG_SP_e	Connect input In12	E	ABBIED600:2014
Ind13Conn	ABBIED600_Rev1_SPG_SP_e	Connect input In13	E	ABBIED600:2014
Ind14Conn	ABBIED600_Rev1_SPG_SP_e	Connect input In14	E	ABBIED600:2014
Ind15Conn	ABBIED600_Rev1_SPG_SP_e	Connect input In15	E	ABBIED600:2014
Ind16Conn	ABBIED600_Rev1_SPG_SP_e	Connect input In16	E	ABBIED600:2014
Ind17Conn	ABBIED600_Rev1_SPG_SP_e	Connect input In17	E	ABBIED600:2014
Ind18Conn	ABBIED600_Rev1_SPG_SP_e	Connect input In18	E	ABBIED600:2014
Ind19Conn	ABBIED600_Rev1_SPG_SP_e	Connect input In19	E	ABBIED600:2014
Ind20Conn	ABBIED600_Rev1_SPG_SP_e	Connect input In20	E	ABBIED600:2014

6.2.39 LN: SELGAPC1 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Ind1	ABBIED600_Rev1_SPS_dU	Input1		
Ind2	ABBIED600_Rev1_SPS_dU	Input2		
Ind3	ABBIED600_Rev1_SPS_dU	Input3		
Ind4	ABBIED600_Rev1_SPS_dU	Input4		
Ind5	ABBIED600_Rev1_SPS_dU	Input5		
Ind6	ABBIED600_Rev1_SPS_dU	Input6		
Ind7	ABBIED600_Rev1_SPS_dU	Input7		
Ind8	ABBIED600_Rev1_SPS_dU	Input8		
Ind9	ABBIED600_Rev1_SPS_dU	Input9		
Ind10	ABBIED600_Rev1_SPS_dU	Input10		
Ind11	ABBIED600_Rev1_SPS_dU	Input11		
Ind12	ABBIED600_Rev1_SPS_dU	Input12		
Ind13	ABBIED600_Rev1_SPS_dU	Input13		
Ind14	ABBIED600_Rev1_SPS_dU	Input14		
Ind15	ABBIED600_Rev1_SPS_dU	Input15		
Ind16	ABBIED600_Rev1_SPS_dU	Input16		
Ind17	ABBIED600_Rev1_SPS_dU	Input17		
Ind18	ABBIED600_Rev1_SPS_dU	Input18		
Ind19	ABBIED600_Rev1_SPS_dU	Input19		
Ind20	ABBIED600_Rev1_SPS_dU	Input20		
SPCSO1	ABBIED600_Rev1_SPC_simple_dU	Output1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple_dU	Output2		status-only
SPCSO3	ABBIED600_Rev1_SPC_simple_dU	Output3		status-only
SPCSO4	ABBIED600_Rev1_SPC_simple_dU	Output4		status-only
SPCSO5	ABBIED600_Rev1_SPC_simple_dU	Output5		status-only
SPCSO6	ABBIED600_Rev1_SPC_simple_dU	Output6		status-only
SPCSO7	ABBIED600_Rev1_SPC_simple_dU	Output7		status-only
SPCSO8	ABBIED600_Rev1_SPC_simple_dU	Output8		status-only
SPCSO9	ABBIED600_Rev1_SPC_simple_dU	Output9		status-only
SPCSO10	ABBIED600_Rev1_SPC_simple_dU	Output10		status-only
SPCSO11	ABBIED600_Rev1_SPC_simple_dU	Output11		status-only
SPCSO12	ABBIED600_Rev1_SPC_simple_dU	Output12		status-only
SPCSO13	ABBIED600_Rev1_SPC_simple_dU	Output13		status-only
SPCSO14	ABBIED600_Rev1_SPC_simple_dU	Output14		status-only
SPCSO15	ABBIED600_Rev1_SPC_simple_dU	Output15		status-only
SPCSO16	ABBIED600_Rev1_SPC_simple_dU	Output16		status-only
SPCSO17	ABBIED600_Rev1_SPC_simple_dU	Output17		status-only
SPCSO18	ABBIED600_Rev1_SPC_simple_dU	Output18		status-only

SPCSO19	ABBIED600_Rev1_SPC_simple_dU	Output19		status-only
SPCSO20	ABBIED600_Rev1_SPC_simple_dU	Output20		status-only
Out1Conn	ABBIED600_Rev2_ENG_SP_OutConn_e	Connect OUT_1 signal	E	ABBIED600:2014
Out2Conn	ABBIED600_Rev2_ENG_SP_OutConn_e	Connect OUT_2 signal	E	ABBIED600:2014
Out3Conn	ABBIED600_Rev2_ENG_SP_OutConn_e	Connect OUT_3 signal	E	ABBIED600:2014
Out4Conn	ABBIED600_Rev2_ENG_SP_OutConn_e	Connect OUT_4 signal	E	ABBIED600:2014
Out5Conn	ABBIED600_Rev2_ENG_SP_OutConn_e	Connect OUT_5 signal	E	ABBIED600:2014
Out6Conn	ABBIED600_Rev2_ENG_SP_OutConn_e	Connect OUT_6 signal	E	ABBIED600:2014
Out7Conn	ABBIED600_Rev2_ENG_SP_OutConn_e	Connect OUT_7 signal	E	ABBIED600:2014
Out8Conn	ABBIED600_Rev2_ENG_SP_OutConn_e	Connect OUT_8 signal	E	ABBIED600:2014
Out9Conn	ABBIED600_Rev2_ENG_SP_OutConn_e	Connect OUT_9 signal	E	ABBIED600:2014
Out10Conn	ABBIED600_Rev2_ENG_SP_OutConn_e	Connect OUT_10 signal	E	ABBIED600:2014
Out11Conn	ABBIED600_Rev2_ENG_SP_OutConn_e	Connect OUT_11 signal	E	ABBIED600:2014
Out12Conn	ABBIED600_Rev2_ENG_SP_OutConn_e	Connect OUT_12 signal	E	ABBIED600:2014
Out13Conn	ABBIED600_Rev2_ENG_SP_OutConn_e	Connect OUT_13 signal	E	ABBIED600:2014
Out14Conn	ABBIED600_Rev2_ENG_SP_OutConn_e	Connect OUT_14 signal	E	ABBIED600:2014
Out15Conn	ABBIED600_Rev2_ENG_SP_OutConn_e	Connect OUT_15 signal	E	ABBIED600:2014
Out16Conn	ABBIED600_Rev2_ENG_SP_OutConn_e	Connect OUT_16 signal	E	ABBIED600:2014
Out17Conn	ABBIED600_Rev2_ENG_SP_OutConn_e	Connect OUT_17 signal	E	ABBIED600:2014
Out18Conn	ABBIED600_Rev2_ENG_SP_OutConn_e	Connect OUT_18 signal	E	ABBIED600:2014
Out19Conn	ABBIED600_Rev2_ENG_SP_OutConn_e	Connect OUT_19 signal	E	ABBIED600:2014
Out20Conn	ABBIED600_Rev2_ENG_SP_OutConn_e	Connect OUT_20 signal	E	ABBIED600:2014

6.2.40 LN: GSAL1 Name: GSAL (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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_ED2_e	Remote authorization	E	ABBIED600:2014
AuthAcsAdm	ABBIED600_Rev10_ENS_AuthAcs_e	Viewer access	E	REx615:2014
AuthAcsEng	ABBIED600_Rev10_ENS_AuthAcs_e	Operator access	E	REx615:2014
AuthAcsOpr	ABBIED600_Rev10_ENS_AuthAcs_e	Engineer access	E	REx615:2014
AuthAcsVw	ABBIED600_Rev10_ENS_AuthAcs_e	Administrator access	E	REx615:2014
AuthAcsLev	ABBIED600_Rev2_ENG_SP_AuthAcsLev_e	Logging level	E	REx615:2014

RemUpdEna	ABBIED600_Rev1_SPG_SP_AccessAdmW_e	Remote Update Enable	E	ABBIED600:2014
AuthRemAdm	ABBIED600_Rev1_VSG_2_64_e	Remote authorization (administrator)	E	ABBIED600:2014
AuthRemEng	ABBIED600_Rev1_VSG_2_64_e	Remote authorization (engineer)	E	ABBIED600:2014
AuthRemOpr	ABBIED600_Rev1_VSG_2_64_e	Remote authorization (operator)	E	ABBIED600:2014
AuthRemVw	ABBIED600_Rev1_VSG_2_64_e	Remote authorization (viewer)	E	ABBIED600:2014

6.2.41 LN: IHMI1 Name: IHMI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
CardNam	ABBIED600_Rev7_DPL_eeprom_2_ED2_e	Card information	E	ABBIED600:2014
TestStaId	ABBIED600_Rev1_LPL_VSS_dU_20_e	Testing	E	ABBIED600:2014
HwId	ABBIED600_Rev1_LPL_VSS_1_20_e	HW module	E	ABBIED600:2014

6.2.42 LN: SERLCCH1 Name: LCCH (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Beh	ABBIED600_Rev2_ENS_beh	SERLCCH1 on/off		
FibMod	ABBIED600_Rev2_ENG_SP_FibMod_e	Fiber mode for COM1	E	ABBIED600:2014
SerMod	ABBIED600_Rev2_ENG_SP_SerMod_e	Serial mode for COM1	E	ABBIED600:2014
CTSDlTmms	ABBIED600_Rev1_ING_SP_1_e	CTS delay for COM1	E	ABBIED600:2014
RTSDlTmms	ABBIED600_Rev1_ING_SP_1_e	RTS delay for COM1	E	ABBIED600:2014
SerBaudRte	ABBIED600_Rev1_ENG_SP_BaudRate_e	Baudrate for COM1	E	ABBIED600:2014
CharRxCnt	ABBIED600_Rev1_INS_e	Number of characters received	E	ABBIED600:2014
FrRxCnt	ABBIED600_Rev1_INS_e	Number of successfully received link frames	E	ABBIED600:2014
RxErrCnt	ABBIED600_Rev1_INS_e	Number of discarded link frames	E	ABBIED600:2014
FrTxCnt	ABBIED600_Rev1_INS_e	Number of transmitted link frames	E	ABBIED600:2014
CDLosCnt	ABBIED600_Rev1_INS_e	CD lost	E	ABBIED600:2014
CollCnt	ABBIED600_Rev1_INS_e	Collision	E	ABBIED600:2014
CTSTmOut	ABBIED600_Rev1_INS_e	CTS timeout	E	ABBIED600:2014
TxTmOutCnt	ABBIED600_Rev1_INS_e	Transmission timeout	E	ABBIED600:2014
PtyErrCnt	ABBIED600_Rev1_INS_e	Number of parity errors	E	ABBIED600:2014
OvRunErr	ABBIED600_Rev1_INS_e	Number of overrun errors	E	ABBIED600:2014

FrErrCnt	ABBIED600_Rev1_INS_e	Framing errors	E	ABBIED600:2014
ChLiv	ABBIED600_Rev1_SPS_simple	Channel Live		
LnkLiv	ABBIED600_Rev1_SPS_simple_e	Link Live	E	ABBIED600:2014
CntRs	ABBIED600_Rev2_SPC_control_e	Reset Counters	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.43 LN: SERLCCH2 Name: LCCH (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Beh	ABBIED600_Rev2_ENS_beh	SERLCCH2 on/off		
FibMod	ABBIED600_Rev2_ENG_SP_FibMod_e	Fiber mode for COM2	E	ABBIED600:2014
SerMod	ABBIED600_Rev2_ENG_SP_SerMod_e	Serial mode for COM2	E	ABBIED600:2014
CTSDlTmms	ABBIED600_Rev1_ING_SP_1_e	CTS delay for COM2	E	ABBIED600:2014
RTSDlTmms	ABBIED600_Rev1_ING_SP_1_e	RTS delay for COM2	E	ABBIED600:2014
SerBaudRte	ABBIED600_Rev1_ENG_SP_BaudRate_e	Baudrate for COM2	E	ABBIED600:2014
CharRxCnt	ABBIED600_Rev1_INS_e	Number of characters received	E	ABBIED600:2014
FrRxCnt	ABBIED600_Rev1_INS_e	Number of successfully received link frames	E	ABBIED600:2014
RxErrCnt	ABBIED600_Rev1_INS_e	Number of discarded link frames	E	ABBIED600:2014
FrTxCnt	ABBIED600_Rev1_INS_e	Number of transmitted link frames	E	ABBIED600:2014
CDLosCnt	ABBIED600_Rev1_INS_e	CD lost	E	ABBIED600:2014
CollCnt	ABBIED600_Rev1_INS_e	Collision	E	ABBIED600:2014
CTSTmOut	ABBIED600_Rev1_INS_e	CTS timeout	E	ABBIED600:2014
TxTmOutCnt	ABBIED600_Rev1_INS_e	Transmission timeout	E	ABBIED600:2014
PtyErrCnt	ABBIED600_Rev1_INS_e	Number of parity errors	E	ABBIED600:2014
OvRunErr	ABBIED600_Rev1_INS_e	Number of overrun errors	E	ABBIED600:2014
FrErrCnt	ABBIED600_Rev1_INS_e	Framing errors	E	ABBIED600:2014
ChLiv	ABBIED600_Rev1_SPS_simple	Channel Live		
LnkLiv	ABBIED600_Rev1_SPS_simple_e	Link Live	E	ABBIED600:2014
CntRs	ABBIED600_Rev2_SPC_control_e	Reset Counters	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.44 LN: RCHLCCH1 Name: LCCH (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Beh	ABBIED600_Rev2_ENS_beh	Physical Channel behavior		

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	AB-BIED600:2014
RedLnkLiv	ABBIED600_Rev1_SPS_e	Link status of port B	E	AB-BIED600:2014
RedCfg	ABBIED600_Rev1_ENG_SP_ChRed-Kind_e	Redundant mode	E	REx615:2014

6.2.45 LN: SCHLCCH1 Name: LCCH (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Beh	ABBIED600_Rev2_ENS_beh	Physical Channel be-havior		
ChLiv	ABBIED600_Rev1_SPS	Physical channel status		
LnkLiv	ABBIED600_Rev1_SPS_e	Link status	E	AB-BIED600:2014
PortMod	ABBIED600_Rev3_ENG_SP_Eth-PortMod_e	Ethernet port mode	E	AB-BIED600:2014

6.2.46 LN: SCHLCCH2 Name: LCCH (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Beh	ABBIED600_Rev2_ENS_beh	Physical Channel be-havior		
ChLiv	ABBIED600_Rev1_SPS	Physical channel status		
LnkLiv	ABBIED600_Rev1_SPS_e	Link status	E	AB-BIED600:2014
PortMod	ABBIED600_Rev3_ENG_SP_Eth-PortMod_e	Ethernet port mode	E	AB-BIED600:2014

6.2.47 LN: SCHLCCH3 Name: LCCH (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Beh	ABBIED600_Rev2_ENS_beh	Physical Channel be-havior		
ChLiv	ABBIED600_Rev1_SPS	Physical channel status		
LnkLiv	ABBIED600_Rev1_SPS_e	Link status	E	AB-BIED600:2014
PortMod	ABBIED600_Rev3_ENG_SP_Eth-PortMod_e	Ethernet port mode	E	AB-BIED600:2014

6.2.48 LN: SRGAPC1 Name: GAPC (ED2)

Attribute name	Attribute type	Explana-tion	M/O/E	Remarks
Mod	AB-BIED600_Rev1_ENC_Mod_On	Mode		status-only

Beh	ABBIED600_Rev2_ENS_beh	Behav-iour		
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_con-trol_e	R1	E	ABBIED600:2014,status-only,direct-with-normal-security
Rs2	ABBIED600_Rev2_SPC_con-trol_e	R2	E	ABBIED600:2014,status-only,direct-with-normal-security
Rs3	ABBIED600_Rev2_SPC_con-trol_e	R3	E	ABBIED600:2014,status-only,direct-with-normal-security
Rs4	ABBIED600_Rev2_SPC_con-trol_e	R4	E	ABBIED600:2014,status-only,direct-with-normal-security
Rs5	ABBIED600_Rev2_SPC_con-trol_e	R5	E	ABBIED600:2014,status-only,direct-with-normal-security
Rs6	ABBIED600_Rev2_SPC_con-trol_e	R6	E	ABBIED600:2014,status-only,direct-with-normal-security
Rs7	ABBIED600_Rev2_SPC_con-trol_e	R7	E	ABBIED600:2014,status-only,direct-with-normal-security
Rs8	ABBIED600_Rev2_SPC_con-trol_e	R8	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.49 LN: SRGAPC2 Name: GAPC (ED2)

Attribute name	Attribute type	Explana-tion	M/O/E	Remarks
Mod	AB-BIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behav-iour		
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	ABBIED600:2014,status-only,direct-with-normal-security
Rs2	ABBIED600_Rev2_SPC_control_e	R2	E	ABBIED600:2014,status-only,direct-with-normal-security
Rs3	ABBIED600_Rev2_SPC_control_e	R3	E	ABBIED600:2014,status-only,direct-with-normal-security
Rs4	ABBIED600_Rev2_SPC_control_e	R4	E	ABBIED600:2014,status-only,direct-with-normal-security
Rs5	ABBIED600_Rev2_SPC_control_e	R5	E	ABBIED600:2014,status-only,direct-with-normal-security
Rs6	ABBIED600_Rev2_SPC_control_e	R6	E	ABBIED600:2014,status-only,direct-with-normal-security
Rs7	ABBIED600_Rev2_SPC_control_e	R7	E	ABBIED600:2014,status-only,direct-with-normal-security
Rs8	ABBIED600_Rev2_SPC_control_e	R8	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.50 LN: TONGAPC1 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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	ABBIED600:2014
OnDlTmms2	ABBIED600_Rev1_ING_SP_e	On delay time 2	E	ABBIED600:2014
OnDlTmms3	ABBIED600_Rev1_ING_SP_e	On delay time 3	E	ABBIED600:2014
OnDlTmms4	ABBIED600_Rev1_ING_SP_e	On delay time 4	E	ABBIED600:2014
OnDlTmms5	ABBIED600_Rev1_ING_SP_e	On delay time 5	E	ABBIED600:2014
OnDlTmms6	ABBIED600_Rev1_ING_SP_e	On delay time 6	E	ABBIED600:2014
OnDlTmms7	ABBIED600_Rev1_ING_SP_e	On delay time 7	E	ABBIED600:2014
OnDlTmms8	ABBIED600_Rev1_ING_SP_e	On delay time 8	E	ABBIED600:2014

6.2.51 LN: TONGAPC2 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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	ABBIED600:2014
OnDlTmms2	ABBIED600_Rev1_ING_SP_e	On delay time 2	E	ABBIED600:2014
OnDlTmms3	ABBIED600_Rev1_ING_SP_e	On delay time 3	E	ABBIED600:2014
OnDlTmms4	ABBIED600_Rev1_ING_SP_e	On delay time 4	E	ABBIED600:2014
OnDlTmms5	ABBIED600_Rev1_ING_SP_e	On delay time 5	E	ABBIED600:2014
OnDlTmms6	ABBIED600_Rev1_ING_SP_e	On delay time 6	E	ABBIED600:2014
OnDlTmms7	ABBIED600_Rev1_ING_SP_e	On delay time 7	E	ABBIED600:2014
OnDlTmms8	ABBIED600_Rev1_ING_SP_e	On delay time 8	E	ABBIED600:2014

6.2.52 LN: TOFGAPC1 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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	ABBIED600:2014
OffDlTmms2	ABBIED600_Rev1_ING_SP_e	Off delay time 2	E	ABBIED600:2014
OffDlTmms3	ABBIED600_Rev1_ING_SP_e	Off delay time 3	E	ABBIED600:2014
OffDlTmms4	ABBIED600_Rev1_ING_SP_e	Off delay time 4	E	ABBIED600:2014
OffDlTmms5	ABBIED600_Rev1_ING_SP_e	Off delay time 5	E	ABBIED600:2014
OffDlTmms6	ABBIED600_Rev1_ING_SP_e	Off delay time 6	E	ABBIED600:2014
OffDlTmms7	ABBIED600_Rev1_ING_SP_e	Off delay time 7	E	ABBIED600:2014
OffDlTmms8	ABBIED600_Rev1_ING_SP_e	Off delay time 8	E	ABBIED600:2014

6.2.53 LN: TOFGAPC2 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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	ABBIED600:2014
OffDlTmms2	ABBIED600_Rev1_ING_SP_e	Off delay time 2	E	ABBIED600:2014
OffDlTmms3	ABBIED600_Rev1_ING_SP_e	Off delay time 3	E	ABBIED600:2014
OffDlTmms4	ABBIED600_Rev1_ING_SP_e	Off delay time 4	E	ABBIED600:2014
OffDlTmms5	ABBIED600_Rev1_ING_SP_e	Off delay time 5	E	ABBIED600:2014
OffDlTmms6	ABBIED600_Rev1_ING_SP_e	Off delay time 6	E	ABBIED600:2014
OffDlTmms7	ABBIED600_Rev1_ING_SP_e	Off delay time 7	E	ABBIED600:2014
OffDlTmms8	ABBIED600_Rev1_ING_SP_e	Off delay time 8	E	ABBIED600:2014

6.2.54 LN: PTGAPC1 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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	E	ABBIED600:2014
PlsTmms2	ABBIED600_Rev1_ING_SP_e	Pulse time 2	E	ABBIED600:2014
PlsTmms3	ABBIED600_Rev1_ING_SP_e	Pulse time 3	E	ABBIED600:2014
PlsTmms4	ABBIED600_Rev1_ING_SP_e	Pulse time 4	E	ABBIED600:2014
PlsTmms5	ABBIED600_Rev1_ING_SP_e	Pulse time 5	E	ABBIED600:2014
PlsTmms6	ABBIED600_Rev1_ING_SP_e	Pulse time 6	E	ABBIED600:2014
PlsTmms7	ABBIED600_Rev1_ING_SP_e	Pulse time 7	E	ABBIED600:2014

PlsTmms8	ABBIED600_Rev1_ING_SP_e	Pulse time 8	E	ABBIED600:2014

6.2.55 LN: PTGAPC2 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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	E	ABBIED600:2014
PlsTmms2	ABBIED600_Rev1_ING_SP_e	Pulse time 2	E	ABBIED600:2014
PlsTmms3	ABBIED600_Rev1_ING_SP_e	Pulse time 3	E	ABBIED600:2014
PlsTmms4	ABBIED600_Rev1_ING_SP_e	Pulse time 4	E	ABBIED600:2014
PlsTmms5	ABBIED600_Rev1_ING_SP_e	Pulse time 5	E	ABBIED600:2014
PlsTmms6	ABBIED600_Rev1_ING_SP_e	Pulse time 6	E	ABBIED600:2014
PlsTmms7	ABBIED600_Rev1_ING_SP_e	Pulse time 7	E	ABBIED600:2014
PlsTmms8	ABBIED600_Rev1_ING_SP_e	Pulse time 8	E	ABBIED600:2014

6.2.56 LN: SCA4GAPC1 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
AnIn1	ABBIED600_Rev3_MV_2	Analog input 1		
AnIn2	ABBIED600_Rev3_MV_2	Analog input 2		
AnIn3	ABBIED600_Rev3_MV_2	Analog input 3		

AnIn4	ABBIED600_Rev3_MV_2	Analog input 4		
AnValOut1	ABBIED600_Rev3_MV_2_e	Analog value 1 after scaling	E	AB-BIED600:2014
AnValOut2	ABBIED600_Rev3_MV_2_e	Analog value 2 after scaling	E	AB-BIED600:2014
AnValOut3	ABBIED600_Rev3_MV_2_e	Analog value 3 after scaling	E	AB-BIED600:2014
AnValOut4	ABBIED600_Rev3_MV_2_e	Analog value 4 after scaling	E	AB-BIED600:2014
ScaAnIn1	ABBIED600_Rev3_ASG_SP_i_e	Scale ratio for analog input value 1	E	AB-BIED600:2014
ScaAnIn2	ABBIED600_Rev3_ASG_SP_i_e	Scale ratio for analog input value 2	E	AB-BIED600:2014
ScaAnIn3	ABBIED600_Rev3_ASG_SP_i_e	Scale ratio for analog input value 3	E	AB-BIED600:2014
ScaAnIn4	ABBIED600_Rev3_ASG_SP_i_e	Scale ratio for analog input value 4	E	AB-BIED600:2014

6.2.57 LN: TPSGAPC1 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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	ABBIED600:2014

6.2.58 LN: TPMGAPC1 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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	ABBIED600:2014

6.2.59 LN: SPCGAPC1 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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	ABBIED600:2014

6.2.60 LN: SPCGAPC2 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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	ABBIED600:2014

6.2.61 LN: MAPGAPC1 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG_e	Operate delay time	E	IEC 61850-7-4:2007
RsDlTmms	ABBIED600_Rev1_ING_SP_e	Reset delay time	E	IEC 61850-7-4:2007
AnIn	ABBIED600_Rev3_MV_2_e	Analogue input	E	IEC 61850-7-4:2007
OpModCom	ABBIED600_Rev2_ENG_SP_OpModComp_e	Operation mode	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
HysAbs	ABBIED600_Rev3_ASG_SP_i_e	Absolute hysteresis for operation	E	ABBIED600:2014
StrValAdd	ABBIED600_Rev3_ASG_SG_i_e	Start value Add	E	ABBIED600:2014
InEnaAdd	ABBIED600_Rev1_SPS_e	Enable start with added start value	E	ABBIED600:2014

6.2.62 LN: BSTGGIO1 Name: GGIO (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
SPCSO1	ABBIED600_Rev2_SPC_control	RECV_SIG_1		status-only,direct-with-normal-security
SPCSO2	ABBIED600_Rev2_SPC_control	RECV_SIG_2		status-only,direct-with-normal-security
SPCSO3	ABBIED600_Rev2_SPC_control	RECV_SIG_3		status-only,direct-with-normal-security
SPCSO4	ABBIED600_Rev2_SPC_control	RECV_SIG_4		status-only,direct-with-normal-security
SPCSO5	ABBIED600_Rev2_SPC_control	RECV_SIG_5		status-only,direct-with-normal-security
SPCSO6	ABBIED600_Rev2_SPC_control	RECV_SIG_6		status-only,direct-with-normal-security
SPCSO7	ABBIED600_Rev2_SPC_control	RECV_SIG_7		status-only,direct-with-normal-security
SPCSO8	ABBIED600_Rev2_SPC_control	RECV_SIG_8		status-only,direct-with-normal-security
Alm1	ABBIED600_Rev1_SPS	SEND_SIG_A		
Alm2	ABBIED600_Rev1_SPS	RECV_SIG_A		
Ind1	ABBIED600_Rev1_SPS	SEND_SIG_1		
Ind2	ABBIED600_Rev1_SPS	SEND_SIG_2		
Ind3	ABBIED600_Rev1_SPS	SEND_SIG_3		
Ind4	ABBIED600_Rev1_SPS	SEND_SIG_4		
Ind5	ABBIED600_Rev1_SPS	SEND_SIG_5		
Ind6	ABBIED600_Rev1_SPS	SEND_SIG_6		
Ind7	ABBIED600_Rev1_SPS	SEND_SIG_7		
Ind8	ABBIED600_Rev1_SPS	SEND_SIG_8		
PlsTmms1	ABBIED600_Rev1_ING_SG_e	Minimum pulse time for received signal 1	E	ABBIED600:2014
PlsTmms2	ABBIED600_Rev1_ING_SG_e	Minimum pulse time for received signal 2	E	ABBIED600:2014
PlsTmms3	ABBIED600_Rev1_ING_SG_e	Minimum pulse time for received signal 3	E	ABBIED600:2014
PlsTmms4	ABBIED600_Rev1_ING_SG_e	Minimum pulse time for received signal 4	E	ABBIED600:2014
PlsTmms5	ABBIED600_Rev1_ING_SG_e	Minimum pulse time for received signal 5	E	ABBIED600:2014
PlsTmms6	ABBIED600_Rev1_ING_SG_e	Minimum pulse time for received signal 6	E	ABBIED600:2014
PlsTmms7	ABBIED600_Rev1_ING_SG_e	Minimum pulse time for received signal 7	E	ABBIED600:2014
PlsTmms8	ABBIED600_Rev1_ING_SG_e	Minimum pulse time for received signal 8	E	ABBIED600:2014

AlmMod	ABBIED600_Rev2_ENG_SP_Alm-Mod_e	Alarm mode	E	ABBIED600:2014
SigMod1	AB-BIED600_Rev2_ENG_SG_BstMode_e	Signal 1 mode	E	ABBIED600:2014
SigMod2	AB-BIED600_Rev2_ENG_SG_BstMode_e	Signal 2 mode	E	ABBIED600:2014
SigMod3	AB-BIED600_Rev2_ENG_SG_BstMode_e	Signal 3 mode	E	ABBIED600:2014
SigMod4	AB-BIED600_Rev2_ENG_SG_BstMode_e	Signal 4 mode	E	ABBIED600:2014
SigMod5	AB-BIED600_Rev2_ENG_SG_BstMode_e	Signal 5 mode	E	ABBIED600:2014
SigMod6	AB-BIED600_Rev2_ENG_SG_BstMode_e	Signal 6 mode	E	ABBIED600:2014
SigMod7	AB-BIED600_Rev2_ENG_SG_BstMode_e	Signal 7 mode	E	ABBIED600:2014
SigMod8	AB-BIED600_Rev2_ENG_SG_BstMode_e	Signal 8 mode	E	ABBIED600:2014

6.2.63 LN: LNPTRC1 Name: PTRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn-Test_FD	Mode		status-only,direct-with-nor-mal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
Str	ABBIED600_Rev1_ACD_threephase	Start		
ProAct	ABBIED600_Rev1_SPS_e	Protection active	E	ABBIED600:2014

6.2.64 LN: LNLPDIF1 Name: PDIF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
DifAClc	AB-BIED600_Rev3_WYE_threephase_sim-ple_i	Differential Current		
RstA	AB-BIED600_Rev3_WYE_threephase_sim-ple_i	Restraint Current		
LoSet	ABBIED600_Rev3_ASG_SG_i	Low operate value		
MinOpTmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
RstMod	ABBIED600_Rev3_ENG_SP_RstMod	Restraint mode		

RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
TmACrv	ABBIED600_Rev2_CURVE_SG_setCharact	Operating Curve Type		
OpDlTmms	ABBIED600_Rev1_ING_SG_e	Operate Delay Time	E	IEC 61850-7-4:2007
TmMult	ABBIED600_Rev3_ASG_SG_i_e	Time Dial Multiplier	E	IEC 61850-7-4:2007
StrRem	ABBIED600_Rev1_ACD_threephase_e	Start stab. stage remote	E	ABBIED600:2014
OpRem	ABBIED600_Rev1_ACT_threephase_e	Operate stab. stage remote	E	ABBIED600:2014
Blk2HRemSt	ABBIED600_Rev1_ACT_threephase_e	Restrainted due 2nd harm. detected remote	E	ABBIED600:2014
Blk2HLocSt	ABBIED600_Rev1_ACT_threephase_e	Restrainted due 2nd harm. detected local	E	ABBIED600:2014
EndScn1	ABBIED600_Rev3_ASG_SG_i_e	End section 1	E	ABBIED600:2014
SpeScn2	ABBIED600_Rev3_ASG_SG_i_e	Slope section 2	E	ABBIED600:2014
EndScn2	ABBIED600_Rev3_ASG_SG_i_e	End section 2	E	ABBIED600:2014
SpeScn3	ABBIED600_Rev3_ASG_SG_i_e	Slope section 3	E	ABBIED600:2014
Blk	ABBIED600_Rev1_SPS_simple	Blocks stab. stage		
AngLocRemA	ABBIED600_Rev3_MV_simple_i_e	Local and remote phase A angle difference	E	ABBIED600:2014
AngLocRemB	ABBIED600_Rev3_MV_simple_i_e	Local and remote phase B angle difference	E	ABBIED600:2014
AngLocRemC	ABBIED600_Rev3_MV_simple_i_e	Local and remote phase C angle difference	E	ABBIED600:2014
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time, local	E	ABBIED600:2014
TestPro	ABBIED600_Rev1_ENC_TestPro_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
CTConnTyp	ABBIED600_Rev2_ENG_SP_CTConnTyp_e	CT connection type. Determined by the directions of the connected current transformers.	E	ABBIED600:2014
WndSel	ABBIED600_Rev2_ENG_SP_WndSel_e	Winding selection, HV or LV side of transformer	E	ABBIED600:2014
Wnd1Typ	ABBIED600_Rev3_ENG_SP_Wnd1Typ_e	Winding 1 type	E	ABBIED600:2014
Wnd2Typ	ABBIED600_Rev3_ENG_SP_Wnd2Typ_e	Winding 2 type	E	ABBIED600:2014
ClkNum	ABBIED600_Rev2_ENG_SP_ClkNum_e	Phase shift	E	ABBIED600:2014
ZroAElm	ABBIED600_Rev4_ENG_SP_ZroAElm_e	Zro A elimination	E	ABBIED600:2014

6.2.65 LN: LNHPDIF1 Name: PDIF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Op	ABBIED600_Rev1_ACT_threephase	Operate inst. stage local		
HiSet	ABBIED600_Rev3_ASG_SG_i	High operate value		
HiSetMult	ABBIED600_Rev3_ASG_SG_i_e	High Op value Mult	E	AB-BIED600:2014
InEnaMltHi	ABBIED600_Rev1_SPS_simple_e	Enables the high stage multi-plier	E	AB-BIED600:2014
OpRem	AB-BIED600_Rev1_ACT_threephase_e	Operate inst. stage remote	E	AB-BIED600:2014

6.2.66 LN: LNRMXU1 Name: RMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
ARem	ABBIED600_Rev3_WYE_4_e	Operate Current of the remote cur-rent measurement	E	AB-BIED600:2014
ALoc	ABBIED600_Rev3_WYE_4	Operate Current of the local current measurement		
CTRatCor	ABBIED600_Rev3_ASG_SP_i_e	Current transformer ratio difference correction	E	AB-BIED600:2014

6.2.67 LN: PCSITPC1 Name: ITPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		
EEHealth	ABBIED600_Rev4_ENS_health	Health		
LoopTestTm	ABBIED600_Rev3_MV_simple_i	Time measured at last loop test		
RsDlTmms	ABBIED600_Rev1_ING_SP_e	Reset Delay Time	E	IEC 61850-7-4:2007
HealthWrn	ABBIED600_Rev1_SPS_e	Warning	E	ABBIED600:2014
HealthOk	ABBIED600_Rev1_SPS_e	Ok	E	ABBIED600:2014
HealthAlm	ABBIED600_Rev1_SPS_e	Alarm	E	ABBIED600:2014
Comm	ABBIED600_Rev1_SPS_e	Comm	E	ABBIED600:2014
RxErrGen	ABBIED600_Rev2_INC_con-trol_int_e	Rx error generate	E	ABBIED600:2014,status-only,di-rect-with-normal-security
SmplLty	ABBIED600_Rev3_MV_sim-ple_i_e	Measured sam-ple latency	E	ABBIED600:2014
AlmCntRs	ABBIED600_Rev2_INC_con-trol_int_e	Alarm count	E	ABBIED600:2014,status-only,di-rect-with-normal-security

WrnCntRs	ABBIED600_Rev2_INC_control_int_e	Warning count	E	ABBIED600:2014,status-only,direct-with-normal-security
PropDl	ABBIED600_Rev3_MV_simple_i_e	Measured propagation delay	E	ABBIED600:2014

6.2.68 LN: XGGIO90 Name: GGIO (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Beh	ABBIED600_Rev2_ENS_beh	X90 on/off		
CardNam	ABBIED600_Rev7_DPL_eeprom_2_ED2_e	Card information	E	ABBIED600:2014
HwId	ABBIED600_Rev1_LPL_VSS_1_20_e	HW module	E	ABBIED600:2014
TestStaId	ABBIED600_Rev1_LPL_VSS_dU_20_e	Testing	E	ABBIED600:2014

6.2.69 LN: PHIPTOC2 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	ABBIED600:2014
NumPh	ABBIED600_Rev2_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	ABBIED600:2014
StrValMult	ABBIED600_Rev3_ASG_SG_i_e	Multiplier for scaling the start value	E	ABBIED600:2014
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.70 LN: PHLPTOC2 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_threephase	Start		

Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv	Type of Reset Curve		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	ABBIED600:2014
NumPh	ABBIED600_Rev2_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	ABBIED600:2014
StrValMult	ABBIED600_Rev3_ASG_SG_i_e	Multiplier for scaling the start value	E	ABBIED600:2014
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
AMeasMod	ABBIED600_Rev2_ENG_SP_MeasMod_e	Measuring mode	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.71 LN: SSCBR1 Name: SCBR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mod		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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	ABBIED600:2014
InPosCls	ABBIED600_Rev1_SPS_e	POSCLOSE	E	ABBIED600:2014
ColCls	ABBIED600_Rev1_SPS_simple_e	Close command status	E	ABBIED600:2014
PosOpn	ABBIED600_Rev1_SPS_e	CB position is open	E	ABBIED600:2014
PosIvd	ABBIED600_Rev1_SPS_e	INVALIDPOS	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_e	CB position is closed	E	ABBIED600:2014
OpnAlm	ABBIED600_Rev1_SPS_e	CB open travel time exceeded set value	E	ABBIED600:2014
ClsAlm	ABBIED600_Rev1_SPS_e	CB close travel time exceeded set value	E	ABBIED600:2014
OpCntLO	ABBIED600_Rev1_SPS_e	Number of CB operations exceeds lockout limit	E	ABBIED600:2014
LonTmAlm	ABBIED600_Rev1_SPS_e	CB 'not operated for long time' alarm	E	ABBIED600:2014
APwrAlm	ABBIED600_Rev1_SPS_e	Accumulated currents power (Iyt),exceeded alarm limit	E	ABBIED600:2014
APwrLO	ABBIED600_Rev1_SPS_e	Accumulated currents power (Iyt),exceeded lockout limit	E	ABBIED600:2014
RmnNumOpAlm	ABBIED600_Rev1_SPS_e	Remaining life of CB exceeded alarm limit	E	ABBIED600:2014
OpnAlmTmms	ABBIED600_Rev1_ING_SP_1_e	Setting of alarm level for open travel time in ms	E	ABBIED600:2014
CorOpnTmms	ABBIED600_Rev1_ING_SP_1_e	Correction factor for open travel time in ms	E	ABBIED600:2014
ClsAlmTmms	ABBIED600_Rev1_ING_SP_1_e	Setting of alarm level for close travel time in ms	E	ABBIED600:2014
CorClsTmms	ABBIED600_Rev1_ING_SP_1_e	Correction factor for CB close travel time in ms	E	ABBIED600:2014
CorDifTmms	ABBIED600_Rev1_ING_SP_1_e	Corr. factor for time dif in aux. and main contacts open time	E	ABBIED600:2014
OpLONum	ABBIED600_Rev1_ING_SP_1_e	Setting to block operation when number of operation is more.	E	ABBIED600:2014
OpNumRtg	ABBIED600_Rev1_ING_SP_1_e	Number of operations possible at rated current	E	ABBIED600:2014

NumOpAlm-Lev	ABBIED600_Rev1_ING_SP_1_e	Alarm level for CB remaining life	E	ABBIED600:2014
OpNumFlt	ABBIED600_Rev1_ING_SP_1_e	Number of operations possible at rated fault current	E	ABBIED600:2014
CntIniVal	ABBIED600_Rev1_ING_SP_1_e	The operation numbers counter initialization value	E	ABBIED600:2014
InaAlmTmd	ABBIED600_Rev1_ING_SP_1_e	Alarm limit value of the inactive days counter	E	ABBIED600:2014
IniInaTmd	ABBIED600_Rev1_ING_SP_1_e	Initial value of the inactive days counter	E	ABBIED600:2014
InaAlmTmh	ABBIED600_Rev1_ING_SP_1_e	Alarm time of the inactive days counter in hours	E	ABBIED600:2014
InaTmdCnt	ABBIED600_Rev1_INS_e	The number of days CB has been inactive	E	ABBIED600:2014
RsAccmAPwr	ABBIED600_Rev2_SPC_control_e	Reset accumulation energy	E	ABBIED600:2014,status-only,direct-with-normal-security
RsCBWear	ABBIED600_Rev2_SPC_control_e	Reset input for CB remaining life and operation counter	E	ABBIED600:2014,status-only,direct-with-normal-security
RsTrvTm	ABBIED600_Rev2_SPC_control_e	SSCBR1 travel t	E	ABBIED600:2014,status-only,direct-with-normal-security
TestSpvn	AB-BIED600_Rev1_ENC_TestSpvn_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
TrvClcMod	ABBIED600_Rev2_ENG_SP_Trv-ClcMod_e	Travel time calculation mode	E	ABBIED600:2014
DirCff	ABBIED600_Rev1_ASG_SP_f_e	Directional coefficient for CB life calculation	E	ABBIED600:2014
IniRm-nNumOp	ABBIED600_Rev1_ASG_SP_f_e	Initial value for the CB remaining life estimates	E	ABBIED600:2014
Al-mAccmAPwr	ABBIED600_Rev3_ASG_SP_i_e	Setting of alarm level for accumulated currents power, Iyt	E	ABBIED600:2014
AccmStopA	ABBIED600_Rev3_ASG_SP_i_e	Setting of the RMS current below which engy acm stops	E	ABBIED600:2014
LOAccmAPwr	ABBIED600_Rev3_ASG_SP_i_e	Setting of lockout level for accumulated currents power, Iyt	E	ABBIED600:2014
AExpn	ABBIED600_Rev1_ASG_SP_f_e	Current exponent setting for energy calculation	E	ABBIED600:2014
AOpRtg	ABBIED600_Rev3_ASG_SP_i_e	Rated operating current of the breaker	E	ABBIED600:2014

AFltRtg	ABBIED600_Rev3_ASG_SP_i_e	Rated fault current of the breaker	E	ABBIED600:2014
IniAccmAPwr	ABBIED600_Rev3_ASG_SP_i_e	Initial value for accumulation energy (Iyt)	E	ABBIED600:2014

6.2.72 LN: SPH1SCBR1 Name: SCBR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		
RmnNumOp	ABBIED600_Rev1_INS_d_e	CB Remaining life phase A	E	ABBIED600:2014
AccmAPwr	ABBIED600_Rev3_MV_simple_i_e	Accumulated currents power (Iyt), phase A	E	ABBIED600:2014

6.2.73 LN: SPH2SCBR1 Name: SCBR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		
RmnNumOp	ABBIED600_Rev1_INS_d_e	CB Remaining life phase B	E	ABBIED600:2014
AccmAPwr	ABBIED600_Rev3_MV_simple_i_e	Accumulated currents power (Iyt), phase B	E	ABBIED600:2014

6.2.74 LN: SPH3SCBR1 Name: SCBR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		
RmnNumOp	ABBIED600_Rev1_INS_d_e	CB Remaining life phase C	E	ABBIED600:2014
AccmAPwr	ABBIED600_Rev3_MV_simple_i_e	Accumulated currents power (Iyt), phase C	E	ABBIED600:2014

6.2.75 LN: SSIMG1 Name: SIMG (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
InsAlm	ABBIED600_Rev1_SPS	Pressure below alarm level		

InsBlk	ABBIED600_Rev1_SPS	Pressure below lockout level		
PresAlm	ABBIED600_Rev1_SPS	Binary pressure input for alarm		
PresBlk	ABBIED600_Rev1_SPS_e	Binary pressure input for lockout indication	E	AB-BIED600:2014
InsAlmTmms	ABBIED600_Rev1_ING_SP_1_e	Time delay for gas pressure alarm.	E	AB-BIED600:2014
InsBlkTmms	ABBIED600_Rev1_ING_SP_e	Time delay for gas pressure lock-out.	E	AB-BIED600:2014

6.2.76 LN: SSOPM1 Name: SOPM (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
SprChaAlm	ABBIED600_Rev1_SPS_e	Spring charging time has crossed the set value	E	ABBIED600:2014
SprChaStr	ABBIED600_Rev1_SPS_e	CB spring charging started input	E	ABBIED600:2014
SprChaStop	ABBIED600_Rev1_SPS_e	CB spring charged in-put	E	ABBIED600:2014
SprChaTmms	ABBIED600_Rev1_ING_SP_e	Setting of alarm for spring charging time of CB in ms.	E	ABBIED600:2014
TmsSprCha	ABBIED600_Rev3_MV_sim-ple_i_e	The charging time of the CB spring	E	ABBIED600:2014
RsSprChaTm	ABBIED600_Rev2_SPC_con-trol_e	SSCBR1 spr.charge t	E	ABBIED600:2014,status-only,direct-with-normal-secu-rity

6.2.77 LN: TPOSYLTC1 Name: YLTC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On-Off_NoBlk_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
TapPos	ABBIED600_Rev1_ISC_simple	TAPPOS		status-only
EndPosR	ABBIED600_Rev1_SPS	End position raise or highest reached		
EndPosL	ABBIED600_Rev1_SPS	End position lower or lowest reached		
InBit1	ABBIED600_Rev1_SPS_e	BI0	E	ABBIED600:2014
InBit2	ABBIED600_Rev1_SPS_e	BI1	E	ABBIED600:2014
InBit3	ABBIED600_Rev1_SPS_e	BI2	E	ABBIED600:2014
InBit4	ABBIED600_Rev1_SPS_e	BI3	E	ABBIED600:2014
InBit5	ABBIED600_Rev1_SPS_e	BI4	E	ABBIED600:2014
InBit6	ABBIED600_Rev1_SPS_e	BI5	E	ABBIED600:2014

InBit7	ABBIED600_Rev1_SPS_e	SIGN_BIT	E	ABBIED600:2014
BinCdMod	ABBIED600_Rev2_ENG_SP_BCMod_e	Operation mode selection	E	ABBIED600:2014

6.2.78 LN: TR2LPDIF1 Name: PDIF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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	Low operate value		
RstMod	ABBIED600_Rev3_ENG_SG_RstMod	Restraint mode		
Blk	ABBIED600_Rev1_SPS_simple	Blocks operate outputs from biased stage		
TestPro	ABBIED600_Rev1_ENC_TestPro_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
SpeScn2	ABBIED600_Rev3_ASG_SG_i_e	Slope section 2	E	ABBIED600:2014
EndScn2	ABBIED600_Rev3_ASG_SG_i_e	End section 2	E	ABBIED600:2014
CTConnTyp	ABBIED600_Rev2_ENG_SP_CTConnTyp_e	CT connection type	E	ABBIED600:2014
Wnd1Typ	ABBIED600_Rev3_ENG_SP_Wnd1Typ_e	Winding 1 type	E	ABBIED600:2014
Wnd2Typ	ABBIED600_Rev3_ENG_SP_Wnd2Typ_e	Winding 2 type	E	ABBIED600:2014
ClkNum	ABBIED600_Rev2_ENG_SP_ClkNum_e	Phase shift	E	ABBIED600:2014
ZroAElm	ABBIED600_Rev4_ENG_SP_ZroAElm_e	Zro A elimination	E	ABBIED600:2014
MinWndTap	ABBIED600_Rev1_ING_SP_1_e	Min winding tap	E	ABBIED600:2014
MaxWndTap	ABBIED600_Rev1_ING_SP_1_e	Max winding tap	E	ABBIED600:2014
TapNomLTC1	ABBIED600_Rev1_ING_SP_1_e	Tap nominal	E	ABBIED600:2014
TapWnd	ABBIED600_Rev2_ENG_SP_WndSel_e	Tapped winding	E	ABBIED600:2014
StepTap1	ABBIED600_Rev3_ASG_SP_i_e	Step of tap	E	ABBIED600:2014
HDBlk	ABBIED600_Rev1_SPG_SG_e	Harmonic deblock 2.	E	ABBIED600:2014
BlkWavSt	ABBIED600_Rev1_ACT_threephase_e	Status from waveform blocking	E	ABBIED600:2014

Blk2HSt	ABBIED600_Rev1_ACT_threephase_e	Status from 2nd harmonic restraint blocking	E	ABBIED600:2014
Blk5HSt	ABBIED600_Rev1_ACT_threephase_e	Status from 5th harmonic restraint blocking	E	ABBIED600:2014
ScyAComp	ABBIED600_Rev3_WYE_threephase_simple_i_e	Connection group compensated secondary current	E	ABBIED600:2014
PriAComp	ABBIED600_Rev3_WYE_threephase_simple_i_e	Connection group compensated primary current	E	ABBIED600:2014
AngPriAB	ABBIED600_Rev3_MV_simple_i_e	Curr ph angle A to B, winding 1	E	ABBIED600:2014
AngPriBC	ABBIED600_Rev3_MV_simple_i_e	Curr ph angle B to C, winding 1	E	ABBIED600:2014
AngPriCA	ABBIED600_Rev3_MV_simple_i_e	Curr ph angle C to A, winding 1	E	ABBIED600:2014
AngScyAB	ABBIED600_Rev3_MV_simple_i_e	Curr ph angle A to B, winding 2	E	ABBIED600:2014
AngScyBC	ABBIED600_Rev3_MV_simple_i_e	Curr ph angle B to C, winding 2	E	ABBIED600:2014
AngScyCA	ABBIED600_Rev3_MV_simple_i_e	Curr ph angle C to A, winding 2	E	ABBIED600:2014
AngPriScyA	ABBIED600_Rev3_MV_simple_i_e	Curr ph A winding 1 to 2 angle	E	ABBIED600:2014
AngPriScyB	ABBIED600_Rev3_MV_simple_i_e	Curr ph B winding 1 to 2 angle	E	ABBIED600:2014
AngPriScyC	ABBIED600_Rev3_MV_simple_i_e	Curr ph C winding 1 to 2 angle	E	ABBIED600:2014
CTRatCor1	ABBIED600_Rev3_ASG_SP_i_e	CT ratio correction, winding 1	E	ABBIED600:2014
CTRatCor2	ABBIED600_Rev3_ASG_SP_i_e	CT ratio correction, winding 2	E	ABBIED600:2014

6.2.79 LN: TR2H2PHAR1 Name: PHAR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_threephase	Start (active when restraint is needed)		
PhStr	ABBIED600_Rev3_ASG_SG_i	Start value 2.H		
AHRat	ABBIED600_Rev3_WYE_threephase_simple_i_e	2nd harm to fund ratio of diff curr	E	ABBIED600:2014

6.2.80 LN: TR2H5PHAR1 Name: PHAR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_threephase	Start (active when re-straint is needed)		
PhStr	ABBIED600_Rev3_ASG_SG_i	Start value 5.H		
PhStop	ABBIED600_Rev3_ASG_SG_i	Stop value		
HDBlk	ABBIED600_Rev1_SPG_SG_e	Harmonic deblock 5.	E	AB-BIED600:2014
AHRat	ABBIED600_Rev3_WYE_threephase_sim-ple_i_e	5th harm to fund ratio of diff curr	E	AB-BIED600:2014

6.2.81 LN: TR2HPDIF1 Name: PDIF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Op	ABBIED600_Rev1_ACT_simple	Operate signal from high (instanta-neous) stage		
HiSet	ABBIED600_Rev3_ASG_SG_i	High operate value		
Blk	ABBIED600_Rev1_SPS_simple	Blocks operate outputs from instan-taneous stage		
EnaHiSet	ABBIED600_Rev1_SPG_SG_e	Enable high set	E	AB-BIED600:2014

6.2.82 LN: T2PTTR1 Name: PTTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_Of-fOn_FD	Mode		status-only,direct-with-nor-mal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all bi-nary outputs		
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	Max temperature		
ConsTms1	ABBIED600_Rev1_ING_SG	Short time constant for thermal model		
ConsTms2	ABBIED600_Rev1_ING_SG	Long time constant for thermal model		
AlmVal	ABBIED600_Rev3_ASG_SG_i	Alarm temperature		

RsTmp	ABBIED600_Rev2_SPC_control_e	Reset temperature	E	ABBIED600:2014,status-only,direct-with-normal-security
BlkThm	ABBIED600_Rev1_SPS	Block reclose signal		
TmpUsed	ABBIED600_Rev3_MV_simple_i_e	The ambient temperature used in the calculation	E	ABBIED600:2014
TmpAmb	ABBIED600_Rev3_MV_simple_i_e	Ambient temperature	E	ABBIED600:2014
ARef	ABBIED600_Rev3_ASG_SG_i_e	Current reference for thermal model	E	ABBIED600:2014
EnvTmpSet	ABBIED600_Rev3_ASG_SG_i_e	Ambient temperature	E	ABBIED600:2014
IniTmp	ABBIED600_Rev3_ASG_SP_i_e	Initial temperature	E	ABBIED600:2014
RecTmpSet	ABBIED600_Rev3_ASG_SG_i_e	Temperature for reset of BLK_CLOSE after operate	E	ABBIED600:2014
TmpR	ABBIED600_Rev3_ASG_SG_i_e	Temperature reference for thermal model	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
WghFact	ABBIED600_Rev3_ASG_SG_i_e	Weighting factor of the short time constant	E	ABBIED600:2014
OpTmp	ABBIED600_Rev3_ASG_SG_i_e	Operate temperature, percent value	E	ABBIED600:2014
OpTm	ABBIED600_Rev2_INS_Unit_e	Estimated time to operate	E	ABBIED600:2014
BlkThmRsTm	ABBIED600_Rev2_INS_Unit_e	Estimated time to deactivate InhRec	E	ABBIED600:2014

6.2.83 LN: MNSPTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG_setCharact	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i	Machine time Mult		
MinOpTmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		

Max-OpTmms	ABBIED600_Rev1_ING_SP	Maximum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
StrInh	ABBIED600_Rev1_SPS_e	Overheated machine reconnection blocking	E	IEC 61850-7-4:2007
ARef	ABBIED600_Rev3_ASG_SP_i_e	Rated current (Ir) of the machine (used only in the IDMT)	E	ABBIED600:2014
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
ClTms	ABBIED600_Rev1_ING_SP_1_e	Cooling time	E	ABBIED600:2014
TmsRecEna	ABBIED600_Rev1_INS_e	Estimated time to reset of block restart	E	ABBIED600:2014

6.2.84 LN: MNSPTOC2 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG_setCharact	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i	Machine time Mult		
MinOpTmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
Max-OpTmms	ABBIED600_Rev1_ING_SP	Maximum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
StrInh	ABBIED600_Rev1_SPS_e	Overheated machine reconnection blocking	E	IEC 61850-7-4:2007
ARef	ABBIED600_Rev3_ASG_SP_i_e	Rated current (Ir) of the machine	E	ABBIED600:2014

		(used only in the IDMT)		
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
ClTms	ABBIED600_Rev1_ING_SP_1_e	Cooling time	E	ABBIED600:2014
TmsRecEna	ABBIED600_Rev1_INS_e	Estimated time to reset of block restart	E	ABBIED600:2014

6.2.85 LN: PHPTUV1 Name: PTUV (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OfFOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmVCrv	ABBIED600_Rev2_CURVE_SG	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv_e	Type of Reset Curve	E	IEC 61850-7-4:2007
BlkVal	ABBIED600_Rev3_ASG_SP_i_e	Voltage block value	E	IEC 61850-7-4:2007
NumPh	ABBIED600_Rev2_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	ABBIED600:2014
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev1_ENC_TestPro_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
CrvSatRl	ABBIED600_Rev1_ASG_SP_f_e	Tuning parameter to avoid curve discontinuities	E	ABBIED600:2014
VSel	ABBIED600_Rev3_ENG_SP_VSel_e	Parameter to select phase or	E	ABBIED600:2014

		phase-to-phase voltages		
EnaBlkVal	ABBIED600_Rev1_SPG_SP_e	Enable block value	E	ABBIED600:2014
HysRl	ABBIED600_Rev3_ASG_SP_i_e	Relative hysteresis for operation	E	ABBIED600:2014
TypTmRs	AB-BIED600_Rev2_ENG_SG_TypTmRs_e	Type of time reset	E	ABBIED600:2014

6.2.86 LN: PHPTUV2 Name: PTUV (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_Of-fOn_FD	Mode		status-only,direct-with-nor-mal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmVCrv	ABBIED600_Rev2_CURVE_SG	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i	Time Dial Multiplier		
MinOp-Tmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
OpDlT-mms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
TypRsCrv	AB-BIED600_Rev3_ENG_SG_TypRsCrv_e	Type of Reset Curve	E	IEC 61850-7-4:2007
BlkVal	ABBIED600_Rev3_ASG_SP_i_e	Voltage block value	E	IEC 61850-7-4:2007
NumPh	AB-BIED600_Rev2_ENG_SP_StrPhSel_e	Number of phases required for oper-ate activation	E	ABBIED600:2014
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev1_ENC_TestPro_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-se-curity
CrvSatRl	ABBIED600_Rev1_ASG_SP_f_e	Tuning parameter to avoid curve dis-continuities	E	ABBIED600:2014
VSel	ABBIED600_Rev3_ENG_SP_VSel_e	Parameter to se-lect phase or phase-to-phase voltages	E	ABBIED600:2014
EnaBlkVal	ABBIED600_Rev1_SPG_SP_e	Enable block value	E	ABBIED600:2014
HysRl	ABBIED600_Rev3_ASG_SP_i_e	Relative hysteresis for operation	E	ABBIED600:2014

TypTmRs	AB-BIED600_Rev2_ENG_SG_TypTmRs_e	Type of time reset	E	ABBIED600:2014

6.2.87 LN: PHPTUV3 Name: PTUV (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OfFOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmVCrv	ABBIED600_Rev2_CURVE_SG	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
TypRsCrv	AB-BIED600_Rev3_ENG_SG_TypRsCrv_e	Type of Reset Curve	E	IEC 61850-7-4:2007
BlkVal	ABBIED600_Rev3_ASG_SP_i_e	Voltage block value	E	IEC 61850-7-4:2007
NumPh	AB-BIED600_Rev2_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	ABBIED600:2014
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev1_ENC_TestPro_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
CrvSatRl	ABBIED600_Rev1_ASG_SP_f_e	Tuning parameter to avoid curve discontinuities	E	ABBIED600:2014
VSel	ABBIED600_Rev3_ENG_SP_VSel_e	Parameter to select phase or phase-to-phase voltages	E	ABBIED600:2014
EnaBlkVal	ABBIED600_Rev1_SPG_SP_e	Enable block value	E	ABBIED600:2014
HysRl	ABBIED600_Rev3_ASG_SP_i_e	Relative hysteresis for operation	E	ABBIED600:2014
TypTmRs	AB-BIED600_Rev2_ENG_SG_TypTmRs_e	Type of time reset	E	ABBIED600:2014

6.2.88 LN: PHPTOV1 Name: PTOV (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OfFOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmVCrv	ABBIED600_Rev2_CURVE_SG	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv_e	Type of Reset Curve	E	IEC 61850-7-4:2007
NumPh	ABBIED600_Rev2_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	ABBIED600:2014
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev1_ENC_TestPro_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
CrvSatRl	ABBIED600_Rev1_ASG_SP_f_e	Tuning parameter to avoid curve discontinuities	E	ABBIED600:2014
VSel	ABBIED600_Rev3_ENG_SP_VSel_e	Parameter to select phase or phase-to-phase voltages	E	ABBIED600:2014
HysRl	ABBIED600_Rev3_ASG_SP_i_e	Relative hysteresis for operation	E	ABBIED600:2014
TypTmRs	ABBIED600_Rev2_ENG_SG_TypTmRs_e	Type of time reset	E	ABBIED600:2014

6.2.89 LN: PHPTOV2 Name: PTOV (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OfFOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		

Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmVCrv	ABBIED600_Rev2_CURVE_SG	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i	Time Dial Multiplier		
MinOp-Tmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
OpDlT-mms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
TypRsCrv	AB-BIED600_Rev3_ENG_SG_TypRsCrv_e	Type of Reset Curve	E	IEC 61850-7-4:2007
NumPh	AB-BIED600_Rev2_ENG_SP_StrPhSel_e	Number of phases required for oper-ate activation	E	ABBIED600:2014
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev1_ENC_TestPro_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-se-curity
CrvSatRl	ABBIED600_Rev1_ASG_SP_f_e	Tuning parameter to avoid curve dis-continuities	E	ABBIED600:2014
VSel	ABBIED600_Rev3_ENG_SP_VSel_e	Parameter to se-lect phase or phase-to-phase voltages	E	ABBIED600:2014
HysRl	ABBIED600_Rev3_ASG_SP_i_e	Relative hysteresis for operation	E	ABBIED600:2014
TypTmRs	AB-BIED600_Rev2_ENG_SG_TypTmRs_e	Type of time reset	E	ABBIED600:2014

6.2.90 LN: PHPTOV3 Name: PTOV (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_Of-fOn_FD	Mode		status-only,direct-with-nor-mal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmVCrv	ABBIED600_Rev2_CURVE_SG	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i	Time Dial Multiplier		

MinOp-Tmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
OpDlT-mms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
TypRsCrv	AB-BIED600_Rev3_ENG_SG_TypRsCrv_e	Type of Reset Curve	E	IEC 61850-7-4:2007
NumPh	AB-BIED600_Rev2_ENG_SP_StrPhSel_e	Number of phases required for oper-ate activation	E	ABBIED600:2014
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev1_ENC_TestPro_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-se-curity
CrvSatRl	ABBIED600_Rev1_ASG_SP_f_e	Tuning parameter to avoid curve dis-continuities	E	ABBIED600:2014
VSel	ABBIED600_Rev3_ENG_SP_VSel_e	Parameter to se-lect phase or phase-to-phase voltages	E	ABBIED600:2014
HysRl	ABBIED600_Rev3_ASG_SP_i_e	Relative hysteresis for operation	E	ABBIED600:2014
TypTmRs	AB-BIED600_Rev2_ENG_SG_TypTmRs_e	Type of time reset	E	ABBIED600:2014

6.2.91 LN: VMMXU1 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_Of-fOn_FD	Operation		status-only,direct-with-nor-mal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
PPV	AB-BIED600_Rev3_DEL_threephase_full_i	Phase to phase volt-ages		
PhV	ABBIED600_Rev3_WYE_4	Phase to ground voltages		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
VMeas-Mod	ABBIED600_Rev2_ENG_SP_Meas-Mod_e	Selects used meas-urement mode	E	ABBIED600:2014
NumPh	AB-BIED600_Rev2_ENG_SP_StrPhSel_e	Num of phases	E	ABBIED600:2014
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	ABBIED600:2014
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	ABBIED600:2014
LoWrn	ABBIED600_Rev1_SPS_e	Low warning	E	ABBIED600:2014
LoAlm	ABBIED600_Rev1_SPS_e	Low alarm	E	ABBIED600:2014

6.2.92 LN: COL1PTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OfFOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i	Time Dial Multiplier		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
NumPh	ABBIED600_Rev2_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	ABBIED600:2014
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
PkIntgAPhA	ABBIED600_Rev3_MV_simple_i_e	Peak value of integrated current phase A	E	ABBIED600:2014
PkIntgAPhB	ABBIED600_Rev3_MV_simple_i_e	Peak value of integrated current phase B	E	ABBIED600:2014
PkIntgAPhC	ABBIED600_Rev3_MV_simple_i_e	Peak value of integrated current phase C	E	ABBIED600:2014
TestPro	ABBIED600_Rev1_ENC_TestPro_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.93 LN: COL2PTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
NumPh	ABBIED600_Rev2_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	ABBIED600:2014

6.2.94 LN: COLPTUC1 Name: PTUC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		

Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
InhRec	ABBIED600_Rev1_SPS_e	Inhibit reclose (status)	E	ABBIED600:2014
EnaUnCur	ABBIED600_Rev1_SPG_SP_e	Enable under current functionality	E	ABBIED600:2014
RecInhMod	ABBIED600_Rev2_ENG_SP_TrOutMod_e	Reconnection inhibit mode	E	ABBIED600:2014
RecInhTms	ABBIED600_Rev1_ING_SG_e	Reclose inhibit time	E	ABBIED600:2014
LORs	ABBIED600_Rev2_SPC_control_e	Reset lockout inhibit reconnection	E	ABBIED600:2014,status-only,direct-with-normal-security
InPosCls	ABBIED600_Rev1_SPS_e	Input showing the status of capacitor circuit breaker	E	ABBIED600:2014

6.2.95 LN: CUB1PTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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	Alarm start value		
OpDlTmms	ABBIED600_Rev1_ING_SG	Alarm delay time		
FailCnt	ABBIED600_Rev2_INC_control_int_e	Total number of capacitor element failures	E	ABBIED600:2014,status-only,direct-with-normal-security
CntBr1PhsA	ABBIED600_Rev2_INC_control_int_e	Capacitor element failures in branch1 of phase A	E	ABBIED600:2014,status-only,direct-with-normal-security
CntBr2PhsA	ABBIED600_Rev2_INC_control_int_e	Capacitor element failures in branch2 of phase A	E	ABBIED600:2014,status-only,direct-with-normal-security
CntBr1PhsB	ABBIED600_Rev2_INC_control_int_e	Capacitor element failures in	E	ABBIED600:2014,status-only,direct-with-normal-security

		branch1 of phase B		
CntBr2PhsB	ABBIED600_Rev2_INC_control_int_e	Capacitor element failures in branch2 of phase B	E	ABBIED600:2014,status-only,direct-with-normal-security
CntBr1PhsC	ABBIED600_Rev2_INC_control_int_e	Capacitor element failures in branch1 of phase C	E	ABBIED600:2014,status-only,direct-with-normal-security
CntBr2PhsC	ABBIED600_Rev2_INC_control_int_e	Capacitor element failures in branch2 of phase C	E	ABBIED600:2014,status-only,direct-with-normal-security
CntRs	ABBIED600_Rev2_SPC_control_e	Reset all counters	E	ABBIED600:2014,status-only,direct-with-normal-security
FailCntLim	ABBIED600_Rev1_ING_SG_e	Maximum permissible element failures	E	ABBIED600:2014
NatCompEna	ABBIED600_Rev1_SPG_SG_e	Enable natural unbalance compensation	E	ABBIED600:2014
RcdUnb	ABBIED600_Rev2_SPC_control_e	Record natural Unbalance current	E	ABBIED600:2014,status-only,direct-with-normal-security
CubAlmMod	ABBIED600_Rev2_ENG_SG_CubAlmMod_e	Alarm mode	E	ABBIED600:2014
FuLoct	ABBIED600_Rev2_ENG_SG_FuLoct_e	Capacitor bank fuse location	E	ABBIED600:2014
NatUnbCur	ABBIED600_Rev3_WYE_neut_simple_angle_i_e	Natural unbalance current	E	ABBIED600:2014
CompUnbCur	ABBIED600_Rev3_WYE_neut_simple_angle_i_e	Compensated unbalance current	E	ABBIED600:2014
TestPro	ABBIED600_Rev1_ENC_TestPro_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.96 LN: CUB2PTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG_setCharact_SP_setParABCE	Operating curve type		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i	Time dail multiplier		

MinOp-Tmms	ABBIED600_Rev1_ING_SP_1	Minimum operate time		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate delay time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset delay time		
StrDur	ABBIED600_Rev3_MV_simple_i_e	Ratio of start time / operate time	E	AB-BIED600:2014

6.2.97 LN: HCUB1PTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_Of-fOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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	Alarm start value		
OpDlTmms	ABBIED600_Rev1_ING_SG	Alarm delay time		
Com-pEnaPhsA	ABBIED600_Rev1_SPG_SG_e	Enable natural un-balance compen-sation ph A	E	ABBIED600:2014
Com-pEnaPhsB	ABBIED600_Rev1_SPG_SG_e	Enable natural un-balance compen-sation ph B	E	ABBIED600:2014
Com-pEnaPhsC	ABBIED600_Rev1_SPG_SG_e	Enable natural un-balance compen-sation ph C	E	ABBIED600:2014
UnbRcdPh	ABBIED600_Rev1_ENC_RcdUn-bPh_e	Record natural Un-balance current	E	ABBIED600:2014,status-only,direct-with-normal-security
NatUnbCur	ABBIED600_Rev3_WYE_4_e	Natural unbalance current	E	ABBIED600:2014
CompUn-bCur	ABBIED600_Rev3_WYE_4_e	Compensated un-balance current	E	ABBIED600:2014
TestPro	AB-BIED600_Rev1_ENC_TestPro_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.98 LN: HCUB2PTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG_setChar-act_SP_setParABCE	Operating curve type		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i	Time dail multiplier		

MinOp-Tmms	ABBIED600_Rev1_ING_SP_1	Minimum operate time		
OpDlTmms	ABBIED600_Rev1_ING_SG	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	AB-BIED600:2014

6.2.99 LN: SRC1PTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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	Start Value		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate De-lay Time		
TunHNum	ABBIED600_Rev1_ING_SG_e	Tuning Har-monic Num-ber	E	ABBIED600:2014
ResoA	AB-BIED600_Rev3_WYE_threephase_sim-ple_i_e	Resonance Current	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-secu-rity

6.2.100 LN: SRC2PTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behavior		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
InReso	ABBIED600_Rev1_SPS_sim-ple_e	Input signal from higher frequency resonance branch	E	AB-BIED600:2014

6.2.101 LN: DPHLPTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv	Type of Reset Curve		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod	Directional Mode		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	ABBIED600:2014
NumPh	ABBIED600_Rev2_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	ABBIED600:2014
StrValMult	ABBIED600_Rev3_ASG_SG_i_e	Multiplier for scaling the start value	E	ABBIED600:2014
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
AMeasMod	ABBIED600_Rev2_ENG_SP_MeasMod_e	Measuring mode	E	ABBIED600:2014
TestPro	ABBIED600_Rev1_ENC_TestPro_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
AllwNonDir	ABBIED600_Rev1_SPG_SP_e	Allows prot activation as non-dir when dir info is invalid	E	ABBIED600:2014
NonDir	ABBIED600_Rev1_SPS_e	Forces protection to non-directional	E	ABBIED600:2014

6.2.102 LN: DPHLRDIR1 Name: RDIR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Dir	ABBIED600_Rev1_ACD_threephase	Direction		
ChrAng	ABBIED600_Rev3_ASG_SG_i	Characteristic angle		

MinFwdAng	ABBIED600_Rev3_ASG_SG_i	Minimum phase angle in forward direction		
MinRvAng	ABBIED600_Rev3_ASG_SG_i	Minimum phase angle in reverse direction		
MaxFwdAng	ABBIED600_Rev3_ASG_SG_i	Maximum phase angle in forward direction		
MaxRvAng	ABBIED600_Rev3_ASG_SG_i	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	Polarising Quantity		
VMemTmms	ABBIED600_Rev1_ING_SG_e	Voltage memory time	E	ABBIED600:2014
OpChrAngPhsA	ABBIED600_Rev3_MV_simple_i_e	Calc angle difference phase A	E	ABBIED600:2014
OpChrAngPhsB	ABBIED600_Rev3_MV_simple_i_e	Calc angle difference phase B	E	ABBIED600:2014
OpChrAngPhsC	ABBIED600_Rev3_MV_simple_i_e	Calc angle difference phase C	E	ABBIED600:2014
VMemUsedSt	ABBIED600_Rev1_SPS_e	Voltage memory in use status	E	ABBIED600:2014

6.2.103 LN: DPHHPTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv	Selection of reset curve type		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod	Directional Mode		
InEnaMult	ABBIED600_Rev1_SPS_e	Enables current multiplier	E	ABBIED600:2014

NumPh	AB-BIED600_Rev2_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	ABBIED600:2014
StrValMult	ABBIED600_Rev3_ASG_SG_i_e	Multiplier for scaling the start value	E	ABBIED600:2014
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
AMeas-Mod	ABBIED600_Rev2_ENG_SP_Meas-Mod_e	Selects used measurement mode	E	ABBIED600:2014
TestPro	ABBIED600_Rev1_ENC_TestPro_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
AllwNonDir	ABBIED600_Rev1_SPG_SP_e	Allows prot activation as non-dir when dir info is invalid	E	ABBIED600:2014
NonDir	ABBIED600_Rev1_SPS_e	Forces protection to non-directional	E	ABBIED600:2014

6.2.104 LN: DPHHRDIR1 Name: RDIR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Dir	AB-BIED600_Rev1_ACD_threephase	DIR		
ChrAng	ABBIED600_Rev3_ASG_SG_i	Characteristic angle		
MinFwdAng	ABBIED600_Rev3_ASG_SG_i	Minimum phase angle in forward direction		
MinRvAng	ABBIED600_Rev3_ASG_SG_i	Minimum phase angle in reverse direction		
MaxFwdAng	ABBIED600_Rev3_ASG_SG_i	Maximum phase angle in forward direction		
MaxRvAng	ABBIED600_Rev3_ASG_SG_i	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	AB-BIED600_Rev3_ENG_SG_PolQty	Polarizing quantity		
VMemTmms	ABBIED600_Rev1_ING_SG_e	Voltage memory time	E	AB-BIED600:2014
Op-ChrAngPhsA	ABBIED600_Rev3_MV_simple_i_e	Calc angle difference phase A	E	AB-BIED600:2014
Op-ChrAngPhsB	ABBIED600_Rev3_MV_simple_i_e	Calc angle difference phase B	E	AB-BIED600:2014
Op-ChrAngPhsC	ABBIED600_Rev3_MV_simple_i_e	Calc angle difference phase C	E	AB-BIED600:2014
VMemUsedSt	ABBIED600_Rev1_SPS_e	Voltage memory in use status	E	AB-BIED600:2014

6.2.105 LN: DEFLPTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG	Curve parameter E		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv	Selection of reset curve type		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod	Directional Mode		
VStr	ABBIED600_Rev3_ASG_SG_i_e	Voltage start value	E	IEC 61850-7-4:2007
StrValMult	ABBIED600_Rev3_ASG_SG_i_e	Multiplier for scaling the start value	E	ABBIED600:2014
AllwNonDir	ABBIED600_Rev1_SPG_SP_e	Allows prot activation as non-dir when dir info is invalid	E	ABBIED600:2014
AMeasMod	ABBIED600_Rev2_ENG_SP_MeasMod_e	Selects used measurement mode	E	ABBIED600:2014
InEnaMult	ABBIED600_Rev1_SPS_e	Enables current multiplier	E	ABBIED600:2014
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
EnaVLim	ABBIED600_Rev1_SPG_SG_e	Enable voltage limit	E	ABBIED600:2014
TestPro	ABBIED600_Rev1_ENC_TestPro_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
AResSigSel	ABBIED600_Rev2_ENG_SP_AResSigSel_e	Selection for used Io signal	E	ABBIED600:2014

6.2.106 LN: DEFLRDIR1 Name: RDIR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Dir	ABBIED600_Rev1_ACD_simple	Direction		
ChrAng	ABBIED600_Rev3_ASG_SG_i	Characteristic angle		
MinFwdAng	ABBIED600_Rev3_ASG_SG_i	Minimum phase angle in forward direction		
MinRvAng	ABBIED600_Rev3_ASG_SG_i	Minimum phase angle in reverse direction		
MaxFwdAng	ABBIED600_Rev3_ASG_SG_i	Maximum phase angle in forward direction		
MaxRvAng	ABBIED600_Rev3_ASG_SG_i	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_Rev3_ENG_SG_PolQty	Polarizing quantity		
InRcaCtl	ABBIED600_Rev1_SPS_e	Relay characteristic angle control	E	ABBIED600:2014
OpModEF	ABBIED600_Rev2_ENG_SG_OpModEF_e	Operation criteria	E	ABBIED600:2014
CorAng	ABBIED600_Rev3_ASG_SP_i_e	Correction angle	E	ABBIED600:2014
RevPol	ABBIED600_Rev1_SPG_SP_e	Rotate polarizing quantity	E	ABBIED600:2014
OpAEF	ABBIED600_Rev3_MV_simple_i_e	Operating current for EF protection	E	ABBIED600:2014
OpPolAng	ABBIED600_Rev3_MV_simple_i_e	Angle between operating and polarizing quantity	E	ABBIED600:2014
OpChrAng	ABBIED600_Rev3_MV_simple_i_e	Angle between operating angle and characteristic angle	E	ABBIED600:2014
VResSigSel	ABBIED600_Rev2_ENG_SP_VResSigSel_e	Selection for polarization signal	E	ABBIED600:2014

6.2.107 LN: DEFHPTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i	Time Dial Multiplier		

MinOp-Tmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
TypRsCrv	AB-BIED600_Rev3_ENG_SG_TypRsCrv	Selection of reset curve type		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod	Directional Mode		
VStr	ABBIED600_Rev3_ASG_SG_i_e	Voltage start value	E	IEC 61850-7-4:2007
StrValMult	ABBIED600_Rev3_ASG_SG_i_e	Multiplier for scaling the start value	E	ABBIED600:2014
AllwNonDir	ABBIED600_Rev1_SPG_SP_e	Allows prot activation as non-dir when dir info is invalid	E	ABBIED600:2014
AMeasMod	ABBIED600_Rev2_ENG_SP_Meas-Mod_e	Selects used measurement mode	E	ABBIED600:2014
InEnaMult	ABBIED600_Rev1_SPS_e	Enables current multiplier	E	ABBIED600:2014
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
EnaVLim	ABBIED600_Rev1_SPG_SG_e	Enable voltage limit	E	ABBIED600:2014
TestPro	ABBIED600_Rev1_ENC_TestPro_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
AResSigSel	AB-BIED600_Rev2_ENG_SP_AResSig-Sel_e	Selection for used Io signal	E	ABBIED600:2014

6.2.108 LN: DEFHRDIR1 Name: RDIR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Dir	ABBIED600_Rev1_ACD_simple	Direction		
ChrAng	ABBIED600_Rev3_ASG_SG_i	Characteristic angle		
MinFwdAng	ABBIED600_Rev3_ASG_SG_i	Minimum phase angle in forward direction		
MinRvAng	ABBIED600_Rev3_ASG_SG_i	Minimum phase angle in reverse direction		
MaxFwdAng	ABBIED600_Rev3_ASG_SG_i	Maximum phase angle in forward direction		
MaxRvAng	ABBIED600_Rev3_ASG_SG_i	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_Rev3_ENG_SG_PolQty	Polarizing quantity		
InRcaCtl	ABBIED600_Rev1_SPS_e	Relay characteristic angle control	E	ABBIED600:2014
OpModEF	ABBIED600_Rev2_ENG_SG_OpModEF_e	Operation criteria	E	ABBIED600:2014
CorAng	ABBIED600_Rev3_ASG_SP_i_e	Correction angle	E	ABBIED600:2014
RevPol	ABBIED600_Rev1_SPG_SP_e	Rotate polarizing quantity	E	ABBIED600:2014
OpAEF	ABBIED600_Rev3_MV_simple_i_e	Operating current for EF protection	E	ABBIED600:2014
OpPolAng	ABBIED600_Rev3_MV_simple_i_e	Angle between operating and polarizing quantity	E	ABBIED600:2014
OpChrAng	ABBIED600_Rev3_MV_simple_i_e	Angle between operating angle and characteristic angle	E	ABBIED600:2014
VResSigSel	ABBIED600_Rev2_ENG_SP_VResSigSel_e	Selection for polarization signal	E	ABBIED600:2014

6.2.109 LN: ROVPTOV1 Name: PTOV (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i	Residual Over Voltage start value		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
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	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
VResSigSel	ABBIED600_Rev2_ENG_SP_VResSigSel_e	Selection for used Uo signal	E	ABBIED600:2014

6.2.110 LN: ROVPTOV2 Name: PTOV (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security

Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i	Residual Over Voltage start value		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
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	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
VResSigSel	ABBIED600_Rev2_ENG_SP_VResSigSel_e	Selection for used Uo signal	E	ABBIED600:2014

6.2.111 LN: ROVPTOV3 Name: PTOV (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i	Residual Over Voltage start value		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
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	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
VResSigSel	ABBIED600_Rev2_ENG_SP_VResSigSel_e	Selection for used Uo signal	E	ABBIED600:2014

6.2.112 LN: PSPTUV1 Name: PTUV (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
BlkVal	ABBIED600_Rev3_ASG_SG_i_e	Voltage block value	E	IEC 61850-7-4:2007
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
EnaBlkVal	ABBIED600_Rev1_SPG_SG_e	Enable block value	E	ABBIED600:2014
HysRl	ABBIED600_Rev3_ASG_SP_i_e	Relative hysteresis for operation	E	ABBIED600:2014

6.2.113 LN: PSPTUV2 Name: PTUV (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
BlkVal	ABBIED600_Rev3_ASG_SG_i_e	Voltage block value	E	IEC 61850-7-4:2007
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		

StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
EnaBlkVal	ABBIED600_Rev1_SPG_SG_e	Enable block value	E	ABBIED600:2014
HysRl	ABBIED600_Rev3_ASG_SP_i_e	Relative hysteresis for operation	E	ABBIED600:2014

6.2.114 LN: NSPTOV1 Name: PTOV (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG	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	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.115 LN: NSPTOV2 Name: PTOV (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG	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	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.116 LN: FRPTRC1 Name: PTRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OfOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Op	ABBIED600_Rev1_ACT_simple	Operate		
Str	ABBIED600_Rev1_ACD_simple	Start		
TestPro	ABBIED600_Rev1_ENC_TestPro_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
OpModProHz	ABBIED600_Rev2_ENG_SG_OpModProHz_e	Operation mode	E	ABBIED600:2014

6.2.117 LN: FRPTOF1 Name: PTOF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start, overfrequency		
Op	ABBIED600_Rev1_ACT_simple	Operate, overfrequency		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time, overfrequency	E	ABBIED600:2014

6.2.118 LN: FRPTUF1 Name: PTUF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start, underfrequency		
Op	ABBIED600_Rev1_ACT_simple	Operate, underfrequency		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		

OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time, underfrequency	E	ABBIED600:2014

6.2.119 LN: FRPFRC1 Name: PFRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start, frequency gradient		
Op	ABBIED600_Rev1_ACT_simple	Operate, frequency gradient		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value df/dt		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time, frequency gradient	E	ABBIED600:2014

6.2.120 LN: FRPTRC2 Name: PTRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Op	ABBIED600_Rev1_ACT_simple	Operate		
Str	ABBIED600_Rev1_ACD_simple	Start		
TestPro	ABBIED600_Rev1_ENC_TestPro_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
OpModProHz	ABBIED600_Rev2_ENG_SG_OpModProHz_e	Operation mode	E	ABBIED600:2014

6.2.121 LN: FRPTOF2 Name: PTOF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start, overfrequency		
Op	ABBIED600_Rev1_ACT_simple	Operate, overfrequency		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		

OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time, overfrequency	E	AB-BIED600:2014

6.2.122 LN: FRPTUF2 Name: PTUF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start, underfrequency		
Op	ABBIED600_Rev1_ACT_simple	Operate, underfrequency		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time, underfrequency	E	AB-BIED600:2014

6.2.123 LN: FRPFRC2 Name: PFRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start, frequency gradient		
Op	ABBIED600_Rev1_ACT_simple	Operate, frequency gradient		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value df/dt		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time, frequency gradient	E	AB-BIED600:2014

6.2.124 LN: FRPTRC3 Name: PTRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OfOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Op	ABBIED600_Rev1_ACT_simple	Operate		
Str	ABBIED600_Rev1_ACD_simple	Start		
TestPro	ABBIED600_Rev1_ENC_TestPro_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
OpMod-ProHz	ABBIED600_Rev2_ENG_SG_Op-ModProHz_e	Operation mode	E	ABBIED600:2014

6.2.125 LN: FRPTOF3 Name: PTOF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start, overfrequency		
Op	ABBIED600_Rev1_ACT_simple	Operate, overfrequency		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time, overfrequency	E	AB-BIED600:2014

6.2.126 LN: FRPTUF3 Name: PTUF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start, underfrequency		
Op	ABBIED600_Rev1_ACT_simple	Operate, underfrequency		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time, underfrequency	E	AB-BIED600:2014

6.2.127 LN: FRPFRC3 Name: PFRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start, frequency gradient		
Op	ABBIED600_Rev1_ACT_simple	Operate, frequency gradient		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value df/dt		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		

StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time, frequency gradient	E	ABBIED600:2014

6.2.128 LN: CCBRBRF2 Name: RBRF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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	E	IEC 61850-7-4:2007
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
DetValARes	ABBIED600_Rev3_ASG_SP_i_e	Current Detector Value for residual current	E	ABBIED600:2014
AMeasMod	ABBIED600_Rev2_ENG_SP_MeasMod_e	Measurement mode selection (current): 2= DFT; 3= Peak-to-Peak	E	ABBIED600:2014
CBAlmTmms	ABBIED600_Rev1_ING_SP_e	Circuit breaker faulty alarm delay	E	ABBIED600:2014
OpExMod	ABBIED600_Rev2_ENG_SP_buTripMode_e	Select type of backup trip logic	E	ABBIED600:2014
InStr	ABBIED600_Rev1_SPS_e	CBFP start command	E	ABBIED600:2014
InPosCls	ABBIED600_Rev1_SPS_e	CB in closed poisition	E	ABBIED600:2014
InCBFlt	ABBIED600_Rev1_SPS_e	CB faulty and unable to trip	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

StrLtcMod	AB-BIED600_Rev2_ENG_SP_StrLtcMod_e	Start reset delayed or immediately	E	ABBIED600:2014

6.2.129 LN: SSCBR2 Name: SCBR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mod		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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	ABBIED600:2014
InPosCls	ABBIED600_Rev1_SPS_e	POSCLOSE	E	ABBIED600:2014
ColCls	ABBIED600_Rev1_SPS_simple_e	Close command status	E	ABBIED600:2014
PosOpn	ABBIED600_Rev1_SPS_e	CB position is open	E	ABBIED600:2014
PosIvd	ABBIED600_Rev1_SPS_e	INVALIDPOS	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_e	CB position is closed	E	ABBIED600:2014
OpnAlm	ABBIED600_Rev1_SPS_e	CB open travel time exceeded set value	E	ABBIED600:2014
ClsAlm	ABBIED600_Rev1_SPS_e	CB close travel time exceeded set value	E	ABBIED600:2014
OpCntLO	ABBIED600_Rev1_SPS_e	Number of CB operations exceeds lockout limit	E	ABBIED600:2014
LonTmAlm	ABBIED600_Rev1_SPS_e	CB 'not operated for long time' alarm	E	ABBIED600:2014
APwrAlm	ABBIED600_Rev1_SPS_e	Accumulated currents power (Iyt),exceeded alarm limit	E	ABBIED600:2014

APwrLO	ABBIED600_Rev1_SPS_e	Accumulated currents power (Iyt),exceeded lockout limit	E	ABBIED600:2014
RmnNumOpAlm	ABBIED600_Rev1_SPS_e	Remaining life of CB exceeded alarm limit	E	ABBIED600:2014
OpnAlmTmms	ABBIED600_Rev1_ING_SP_1_e	Setting of alarm level for open travel time in ms	E	ABBIED600:2014
CorOpnTmms	ABBIED600_Rev1_ING_SP_1_e	Correction factor for open travel time in ms	E	ABBIED600:2014
ClsAlmTmms	ABBIED600_Rev1_ING_SP_1_e	Setting of alarm level for close travel time in ms	E	ABBIED600:2014
CorClsTmms	ABBIED600_Rev1_ING_SP_1_e	Correction factor for CB close travel time in ms	E	ABBIED600:2014
CorDifTmms	ABBIED600_Rev1_ING_SP_1_e	Corr. factor for time dif in aux. and main contacts open time	E	ABBIED600:2014
OpLONum	ABBIED600_Rev1_ING_SP_1_e	Setting to block operation when number of operation is more.	E	ABBIED600:2014
OpNumRtg	ABBIED600_Rev1_ING_SP_1_e	Number of operations possible at rated current	E	ABBIED600:2014
NumOpAlmLev	ABBIED600_Rev1_ING_SP_1_e	Alarm level for CB remaining life	E	ABBIED600:2014
OpNumFlt	ABBIED600_Rev1_ING_SP_1_e	Number of operations possible at rated fault current	E	ABBIED600:2014
CntIniVal	ABBIED600_Rev1_ING_SP_1_e	The operation numbers counter initialization value	E	ABBIED600:2014
InaAlmTmd	ABBIED600_Rev1_ING_SP_1_e	Alarm limit value of the inactive days counter	E	ABBIED600:2014
IniInaTmd	ABBIED600_Rev1_ING_SP_1_e	Initial value of the inactive days counter	E	ABBIED600:2014
InaAlmTmh	ABBIED600_Rev1_ING_SP_1_e	Alarm time of the inactive days counter in hours	E	ABBIED600:2014
InaTmdCnt	ABBIED600_Rev1_INS_e	The number of days CB has been inactive	E	ABBIED600:2014
RsAccmAPwr	ABBIED600_Rev2_SPC_control_e	Reset accumulation energy	E	ABBIED600:2014,status-only,direct-with-normal-security
RsCBWear	ABBIED600_Rev2_SPC_control_e	Reset input for CB remaining life and operation counter	E	ABBIED600:2014,status-only,direct-with-normal-security

RsTrvTm	ABBIED600_Rev2_SPC_control_e	SSCBR2 travel t	E	ABBIED600:2014,status-only,direct-with-normal-security
TestSpvn	ABBIED600_Rev1_ENC_TestSpvn_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
TrvClcMod	ABBIED600_Rev2_ENG_SP_TrvClcMod_e	Travel time calculation mode	E	ABBIED600:2014
DirCff	ABBIED600_Rev1_ASG_SP_f_e	Directional coefficient for CB life calculation	E	ABBIED600:2014
IniRmnNumOp	ABBIED600_Rev1_ASG_SP_f_e	Initial value for the CB remaining life estimates	E	ABBIED600:2014
AlmAccmAPwr	ABBIED600_Rev3_ASG_SP_i_e	Setting of alarm level for accumulated currents power, Iyt	E	ABBIED600:2014
AccmStopA	ABBIED600_Rev3_ASG_SP_i_e	Setting of the RMS current below which engy acm stops	E	ABBIED600:2014
LOAccmAPwr	ABBIED600_Rev3_ASG_SP_i_e	Setting of lockout level for accumulated currents power, Iyt	E	ABBIED600:2014
AExpn	ABBIED600_Rev1_ASG_SP_f_e	Current exponent setting for energy calculation	E	ABBIED600:2014
AOpRtg	ABBIED600_Rev3_ASG_SP_i_e	Rated operating current of the breaker	E	ABBIED600:2014
AFltRtg	ABBIED600_Rev3_ASG_SP_i_e	Rated fault current of the breaker	E	ABBIED600:2014
IniAccmAPwr	ABBIED600_Rev3_ASG_SP_i_e	Initial value for accumulation energy (Iyt)	E	ABBIED600:2014

6.2.130 LN: SPH1SCBR2 Name: SCBR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		
RmnNumOp	ABBIED600_Rev1_INS_d_e	CB Remaining life phase A	E	ABBIED600:2014
AccmAPwr	ABBIED600_Rev3_MV_simple_i_e	Accumulated currents power (Iyt), phase A	E	ABBIED600:2014

6.2.131 LN: SPH2SCBR2 Name: SCBR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		

ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		
RmnNumOp	ABBIED600_Rev1_INS_d_e	CB Remaining life phase B	E	AB-BIED600:2014
AccmAPwr	ABBIED600_Rev3_MV_sim-ple_i_e	Accumulated currents power (Iyt), phase B	E	AB-BIED600:2014

6.2.132 LN: SPH3SCBR2 Name: SCBR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		
RmnNumOp	ABBIED600_Rev1_INS_d_e	CB Remaining life phase C	E	AB-BIED600:2014
AccmAPwr	ABBIED600_Rev3_MV_sim-ple_i_e	Accumulated currents power (Iyt), phase C	E	AB-BIED600:2014

6.2.133 LN: SSIMG2 Name: SIMG (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
InsAlm	ABBIED600_Rev1_SPS	Pressure below alarm level		
InsBlk	ABBIED600_Rev1_SPS	Pressure below lockout level		
PresAlm	ABBIED600_Rev1_SPS	Binary pressure input for alarm		
PresBlk	ABBIED600_Rev1_SPS_e	Binary pressure input for lockout indication	E	AB-BIED600:2014
InsAlmTmms	ABBIED600_Rev1_ING_SP_1_e	Time delay for gas pressure alarm.	E	AB-BIED600:2014
InsBlkTmms	ABBIED600_Rev1_ING_SP_e	Time delay for gas pressure lock-out.	E	AB-BIED600:2014

6.2.134 LN: SSOPM2 Name: SOPM (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
SprChaAlm	ABBIED600_Rev1_SPS_e	Spring charging time has crossed the set value	E	ABBIED600:2014
SprChaStr	ABBIED600_Rev1_SPS_e	CB spring charging started input	E	ABBIED600:2014
SprChaStop	ABBIED600_Rev1_SPS_e	CB spring charged in-put	E	ABBIED600:2014

SprChaTmms	ABBIED600_Rev1_ING_SP_e	Setting of alarm for spring charging time of CB in ms.	E	ABBIED600:2014
TmsSprCha	ABBIED600_Rev3_MV_simple_i_e	The charging time of the CB spring	E	ABBIED600:2014
RsSprChaTm	ABBIED600_Rev2_SPC_control_e	SSCBR2 spr.charge t	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.135 LN: PEMMXU1 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
TotW	ABBIED600_Rev4_MV_3	Total Active Power (Total P)		
TotVAr	ABBIED600_Rev4_MV_3	Total Reactive Power (Total Q)		
TotVA	ABBIED600_Rev4_MV_3	Total Apparent Power (Total S)		
TotPF	ABBIED600_Rev4_MV_4	Average Power factor (Total PF)		
WhDir	ABBIED600_Rev2_ENG_SP_DirMod2_e	Active power Dir	E	ABBIED600:2014
VArhDir	ABBIED600_Rev2_ENG_SP_DirMod2_e	Reactive power Dir	E	ABBIED600:2014
RcdRs	ABBIED600_Rev2_SPC_control_e	PEMMXU1 demands	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.136 LN: PEMMTR1 Name: MMTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
SupWh	ABBIED600_Rev4_BCR_2	EA_RV_ACM		
SupVArh	ABBIED600_Rev4_BCR_2	ER_RV_ACM		
DmdWh	ABBIED600_Rev4_BCR_2	EA_FWD_ACM		
DmdVArh	ABBIED600_Rev4_BCR_2	ER_FWD_ACM		
IniDmdWh	ABBIED600_Rev1_ING_SP_1_e	Preset Initial value for forward active energy	E	ABBIED600:2014
IniSupWh	ABBIED600_Rev1_ING_SP_1_e	Preset Initial value for reverse active energy	E	ABBIED600:2014
IniDmdVArh	ABBIED600_Rev1_ING_SP_1_e	Preset Initial value for forward reactive energy	E	ABBIED600:2014
IniSupVArh	ABBIED600_Rev1_ING_SP_1_e	Preset Initial value for reverse reactive energy	E	ABBIED600:2014

SupDmdRs	ABBIED600_Rev2_SPC_control_e	Reset of accumulated energy readings	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.137 LN: UDFCNT1 Name: FCNT (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
InUpCnt	ABBIED600_Rev1_SPS_e	Input for up counting	E	ABBIED600:2014
InDnCnt	ABBIED600_Rev1_SPS_e	Input for down counting	E	ABBIED600:2014
CntLodVal	ABBIED600_Rev1_ING_SP_1_e	Preset counter value	E	ABBIED600:2014
CntVal	ABBIED600_Rev2_BCR_1	Output of counter value		
UpCntSt	ABBIED600_Rev1_SPS_e	Status output of up counting	E	REx615:2014
DnCntSt	ABBIED600_Rev1_SPS_e	Status output of down counting	E	REx615:2014
CntRs	ABBIED600_Rev2_SPC_control_e	Resets the counter value	E	ABBIED600:2014,status-only,direct-with-normal-security
LodCnt	ABBIED600_Rev2_SPC_control_e	Load the counter to preset value	E	REx615:2014,status-only,direct-with-normal-security

6.2.138 LN: SPCGAPC3 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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	ABBIED600:2014

6.2.139 LN: SPCLGAPC1 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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	ABBIED600:2014

6.2.140 LN: SPCRGAPC1 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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	ABBIED600:2014

6.2.141 LN: DEFLPTOC2 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG	Curve parameter E		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv	Selection of reset curve type		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		

DirMod	ABBIED600_Rev3_ENG_SG_DirMod	Directional Mode		
VStr	ABBIED600_Rev3_ASG_SG_i_e	Voltage start value	E	IEC 61850-7-4:2007
StrValMult	ABBIED600_Rev3_ASG_SG_i_e	Multiplier for scaling the start value	E	ABBIED600:2014
AllwNonDir	ABBIED600_Rev1_SPG_SP_e	Allows prot activation as non-dir when dir info is invalid	E	ABBIED600:2014
AMeasMod	ABBIED600_Rev2_ENG_SP_MeasMod_e	Selects used measurement mode	E	ABBIED600:2014
InEnaMult	ABBIED600_Rev1_SPS_e	Enables current multiplier	E	ABBIED600:2014
StrDur	ABBIED600_Rev3_MV_simple_i_e	Ratio of start time / operate time	E	ABBIED600:2014
EnaVLim	ABBIED600_Rev1_SPG_SG_e	Enable voltage limit	E	ABBIED600:2014
TestPro	ABBIED600_Rev1_ENC_TestPro_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
AResSigSel	ABBIED600_Rev2_ENG_SP_AResSigSel_e	Selection for used Io signal	E	ABBIED600:2014

6.2.142 LN: DEFLRDIR2 Name: RDIR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Dir	ABBIED600_Rev1_ACD_simple	Direction		
ChrAng	ABBIED600_Rev3_ASG_SG_i	Characteristic angle		
MinFwdAng	ABBIED600_Rev3_ASG_SG_i	Minimum phase angle in forward direction		
MinRvAng	ABBIED600_Rev3_ASG_SG_i	Minimum phase angle in reverse direction		
MaxFwdAng	ABBIED600_Rev3_ASG_SG_i	Maximum phase angle in forward direction		
MaxRvAng	ABBIED600_Rev3_ASG_SG_i	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_Rev3_ENG_SG_PolQty	Polarizing quantity		
InRcaCtl	ABBIED600_Rev1_SPS_e	Relay characteristic angle control	E	ABBIED600:2014
OpModEF	ABBIED600_Rev2_ENG_SG_OpModEF_e	Operation criteria	E	ABBIED600:2014
CorAng	ABBIED600_Rev3_ASG_SP_i_e	Correction angle	E	ABBIED600:2014

RevPol	ABBIED600_Rev1_SPG_SP_e	Rotate polarizing quantity	E	AB-BIED600:2014
OpAEF	ABBIED600_Rev3_MV_simple_i_e	Operating current for EF protection	E	AB-BIED600:2014
OpPolAng	ABBIED600_Rev3_MV_simple_i_e	Angle between operating and polarizing quantity	E	AB-BIED600:2014
OpChrAng	ABBIED600_Rev3_MV_simple_i_e	Angle between operating angle and characteristic angle	E	AB-BIED600:2014
VResSigSel	ABBIED600_Rev2_ENG_SP_VResSigSel_e	Selection for polarization signal	E	AB-BIED600:2014

6.2.143 LN: INTRPTEF1 Name: PTEF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
GndStr	ABBIED600_Rev3_ASG_SG_i	Voltage start value		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod	Directional Mode		
OpDlTmms	ABBIED600_Rev1_ING_SG_e	Operate Delay Time	E	IEC 61850-7-4:2007
RsDlTmms	ABBIED600_Rev1_ING_SP_1_e	Reset Delay Time	E	IEC 61850-7-4:2007
BlkValA	ABBIED600_Rev3_ASG_SP_i_e	Minimum operating current	E	IEC 61850-7-4:2007
InhEF	ABBIED600_Rev1_SPS_e	Block EF	E	ABBIED600:2014
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
PkCntLim	ABBIED600_Rev1_ING_SP_1_e	Min requirement for peak counter before start in IEF mode	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
OpModTEF	ABBIED600_Rev2_ENG_SP_OpModTEF_e	Operation mode for function	E	ABBIED600:2014
VResSigSel	ABBIED600_Rev2_ENG_SP_VResSigSel_e	Selection for used Uo signal	E	ABBIED600:2014

6.2.144 LN: EFLPTOC2 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		

Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv	Type of Reset Curve		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
AMeasMod	ABBIED600_Rev2_ENG_SP_MeasMod_e	Measurement mode selection	E	ABBIED600:2014
StrValMult	ABBIED600_Rev3_ASG_SG_i_e	Multiplier for operate current level	E	ABBIED600:2014
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
InEnaMult	ABBIED600_Rev1_SPS_e	Enable current multiplier	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
AResSigSel	ABBIED600_Rev2_ENG_SP_AResSigSel_e	Selection for used Io signal	E	ABBIED600:2014

6.2.145 LN: EFIPTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OfOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		

StrValMult	ABBIED600_Rev3_ASG_SG_i_e	Multiplier for operate current level	E	ABBIED600:2014
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
InEnaMult	ABBIED600_Rev1_SPS_e	Enable current multiplier	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
AResSigSel	AB-BIED600_Rev2_ENG_SP_AResSig-Sel_e	Selection for used Io signal	E	ABBIED600:2014

6.2.146 LN: DPHLPTOC2 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_Of-fOn_FD	Mode		status-only,direct-with-nor-mal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i	Time Dial Multiplier		
MinOp-Tmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
OpDlT-mms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
TypRsCrv	AB-BIED600_Rev3_ENG_SG_TypRsCrv	Type of Reset Curve		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod	Directional Mode		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	ABBIED600:2014
NumPh	AB-BIED600_Rev2_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	ABBIED600:2014
StrValMult	ABBIED600_Rev3_ASG_SG_i_e	Multiplier for scal-ing the start value	E	ABBIED600:2014
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
AMeas-Mod	ABBIED600_Rev2_ENG_SP_Meas-Mod_e	Measuring mode	E	ABBIED600:2014

TestPro	ABBIED600_Rev1_ENC_TestPro_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
AllwNonDir	ABBIED600_Rev1_SPG_SP_e	Allows prot activation as non-dir when dir info is invalid	E	ABBIED600:2014
NonDir	ABBIED600_Rev1_SPS_e	Forces protection to non-directional	E	ABBIED600:2014

6.2.147 LN: DPHLRDIR2 Name: RDIR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Dir	ABBIED600_Rev1_ACD_threephase	Direction		
ChrAng	ABBIED600_Rev3_ASG_SG_i	Characteristic angle		
MinFwdAng	ABBIED600_Rev3_ASG_SG_i	Minimum phase angle in forward direction		
MinRvAng	ABBIED600_Rev3_ASG_SG_i	Minimum phase angle in reverse direction		
MaxFwdAng	ABBIED600_Rev3_ASG_SG_i	Maximum phase angle in forward direction		
MaxRvAng	ABBIED600_Rev3_ASG_SG_i	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	Polarising Quantity		
VMemTmms	ABBIED600_Rev1_ING_SG_e	Voltage memory time	E	ABBIED600:2014
OpChrAngPhsA	ABBIED600_Rev3_MV_simple_i_e	Calc angle difference phase A	E	ABBIED600:2014
OpChrAngPhsB	ABBIED600_Rev3_MV_simple_i_e	Calc angle difference phase B	E	ABBIED600:2014
OpChrAngPhsC	ABBIED600_Rev3_MV_simple_i_e	Calc angle difference phase C	E	ABBIED600:2014
VMemUsedSt	ABBIED600_Rev1_SPS_e	Voltage memory in use status	E	ABBIED600:2014

6.2.148 LN: SECRSYN1 Name: RSYN (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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	Difference Voltage		
DifHz	ABBIED600_Rev3_ASG_SG_i	Difference Frequency		
DifAng	ABBIED600_Rev3_ASG_SG_i	Difference Phase Angle		
LivDeaMod	ABBIED600_Rev3_ENG_SG_LivDeaMod	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	E	ABBIED600:2014
CBTmms	ABBIED600_Rev1_ING_SP_e	Closing time of the breaker	E	IEC 61850-7-4:2007
FailCmd	ABBIED600_Rev1_SPS_e	CB closing request failed	E	ABBIED600:2014
FailSyn	ABBIED600_Rev1_SPS_e	CB closing failed	E	ABBIED600:2014
ClsRq	ABBIED600_Rev1_SPS_e	External closing request	E	ABBIED600:2014
Byps	ABBIED600_Rev1_SPS_e	Request to bypass synchronism check and voltage check	E	ABBIED600:2014
LLDBInd	ABBIED600_Rev1_SPS_e	Live Line, Dead Bus	E	ABBIED600:2014
LLLBInd	ABBIED600_Rev1_SPS_e	Live Line, Live Bus	E	ABBIED600:2014
DLLBInd	ABBIED600_Rev1_SPS_e	Dead Line, Live Bus	E	ABBIED600:2014
DLDBInd	ABBIED600_Rev1_SPS_e	Dead Line, Dead Bus	E	ABBIED600:2014
OpModSC	ABBIED600_Rev2_ENG_SP_OpModSC_e	Synchrocheck mode	E	ABBIED600:2014
OpModCtl	ABBIED600_Rev2_ENG_SP_OpModCtrl_e	Selection of synchro check command or Continuous control mode	E	ABBIED600:2014
EnSt	ABBIED600_Rev2_ENS_EnergSt_e	Energization state of Line and Bus	E	ABBIED600:2014

MaxVEn	ABBIED600_Rev3_ASG_SP_i_e	Maximum voltage for energizing	E	ABBIED600:2014
PhSht	ABBIED600_Rev3_ASG_SP_i_e	Correction of phase difference between measured U_BUS and U_LINE	E	ABBIED600:2014
EnTmms	ABBIED600_Rev1_ING_SP_e	Time delay for energizing check	E	ABBIED600:2014
MaxSynTmms	ABBIED600_Rev1_ING_SP_e	Maximum time to accept synchronizing	E	ABBIED600:2014
MinSynTmms	ABBIED600_Rev1_ING_SP_e	Minimum time to accept synchronizing	E	ABBIED600:2014
TestCtl	ABBIED600_Rev1_ENC_TestCtl_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.149 LN: RESVMMXU1 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
PhV	ABBIED600_Rev3_WYE_res_full_i	Residual voltage		
VMeasMod	ABBIED600_Rev2_ENG_SP_MeasMod_e	Selects used measurement mode	E	ABBIED600:2014
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	ABBIED600:2014
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	ABBIED600:2014
RcdRs	ABBIED600_Rev2_SPC_control_e	RESVMMXU1 demands	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.150 LN: HREFPDIF1 Name: PDIF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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	Low operate value, percentage of the nominal current		
MinOpTmms	ABBIED600_Rev1_ING_SG	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	ABBIED600:2014
TstOutCmd	AB-BIED600_Rev20_ENC_TstOut_e	Test control for out-puts	E	ABBIED600:2014,status-only,direct-with-normal-secu-rity

6.2.151 LN: MFADPSDE1 Name: PSDE (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-nor-mal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
GndStr	ABBIED600_Rev3_ASG_SG_i	Voltage start va-lue		
StrDlTmms	ABBIED600_Rev1_ING_SP_1	Start delay time		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod	Directional Mode		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
RsDlTmms	ABBIED600_Rev1_ING_SP_1_e	Reset Delay Time	E	IEC 61850-7-4:2007
ItmEFInd	ABBIED600_Rev1_SPS_e	Intermittent earth-fault indication	E	ABBIED600:2014
InhEF	ABBIED600_Rev1_SPS_e	Block EF	E	ABBIED600:2014
PkInd	ABBIED600_Rev1_SPS_e	Current transient detection indica-tion	E	ABBIED600:2014
TrgSt	ABBIED600_Rev1_SPS_simple_e	Signal indicating function triggering	E	ABBIED600:2014
PkCntLim	ABBIED600_Rev1_ING_SP_1_e	Min requirement for peak counter before start in IEF mode	E	ABBIED600:2014
TestPro	ABBIED600_Rev2_ENC_TestPro_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-se-curity
OpModTEF	ABBIED600_Rev3_ENG_SP_Op-ModTEF_e	Operation mode for function	E	ABBIED600:2014
AResSigSel	AB-BIED600_Rev2_ENG_SP_AResSigSel_e	Selection for used Io signal	E	ABBIED600:2014
VResSigSel	AB-BIED600_Rev2_ENG_SP_VResSigSel_e	Selection for used Uo signal	E	ABBIED600:2014
GndOpRev	ABBIED600_Rev3_ASG_SP_i_e	Ground operate value in reverse direction	E	ABBIED600:2014
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014

6.2.152 LN: VMMXU2 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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		
VMeasMod	ABBIED600_Rev2_ENG_SP_MeasMod_e	Selects used measurement mode	E	ABBIED600:2014
NumPh	ABBIED600_Rev2_ENG_SP_StrPhSel_e	Num of phases	E	ABBIED600:2014
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	ABBIED600:2014
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	ABBIED600:2014
LoWrn	ABBIED600_Rev1_SPS_e	Low warning	E	ABBIED600:2014
LoAlm	ABBIED600_Rev1_SPS_e	Low alarm	E	ABBIED600:2014

6.2.153 LN: FRPTRC4 Name: PTRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Op	ABBIED600_Rev1_ACT_simple	Operate		
Str	ABBIED600_Rev1_ACD_simple	Start		
TestPro	ABBIED600_Rev1_ENC_TestPro_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
OpModProHz	ABBIED600_Rev2_ENG_SG_OpModProHz_e	Operation mode	E	ABBIED600:2014

6.2.154 LN: FRPTOF4 Name: PTOF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only

Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start, overfrequency		
Op	ABBIED600_Rev1_ACT_simple	Operate, overfrequency		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time, overfrequency	E	AB-BIED600:2014

6.2.155 LN: FRPTUF4 Name: PTUF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start, underfrequency		
Op	ABBIED600_Rev1_ACT_simple	Operate, underfrequency		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time, underfrequency	E	AB-BIED600:2014

6.2.156 LN: FRPFRC4 Name: PFRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start, frequency gradient		
Op	ABBIED600_Rev1_ACT_simple	Operate, frequency gradient		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value df/dt		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time, frequency gradient	E	AB-BIED600:2014

6.2.157 LN: PHIZ1 Name: PHIZ (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	PHIZ1		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		

Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
Pos	ABBIED600_Rev4_DPC_simple	Position		status-only
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
SysTyp	ABBIED600_Rev2_ENG_SP_PHIZ-Mod_e	System Type	E	ABBIED600:2014
SecLev	ABBIED600_Rev1_ING_SG_e	Security Level	E	ABBIED600:2014

6.2.158 LN: HIAPDIF1 Name: PDIF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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	Low operate value, percentage of the nominal current		
MinOpTmms	ABBIED600_Rev1_ING_SG	Minimum Operate Time		
RsDlTmms	ABBIED600_Rev1_ING_SP	Reset Delay Time		
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev2_ENC_TestPro_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.159 LN: HIBPDIF1 Name: PDIF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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	Low operate value, percentage of the nominal current		
MinOpTmms	ABBIED600_Rev1_ING_SG	Minimum Operate Time		
RsDlTmms	ABBIED600_Rev1_ING_SP	Reset Delay Time		

StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TestPro	AB-BIED600_Rev2_ENC_TestPro_e	Test control for out-puts	E	ABBIED600:2014,status-only,direct-with-normal-secu-rity

6.2.160 LN: HICPDIF1 Name: PDIF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_Of-fOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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	Low operate value, percentage of the nominal current		
Mi-nOpTmms	ABBIED600_Rev1_ING_SG	Minimum Operate Time		
RsDlTmms	ABBIED600_Rev1_ING_SP	Reset Delay Time		
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TestPro	AB-BIED600_Rev2_ENC_TestPro_e	Test control for out-puts	E	ABBIED600:2014,status-only,direct-with-normal-secu-rity

6.2.161 LN: LREFPDIF1 Name: PDIF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-nor-mal-security
Beh	ABBIED600_Rev2_ENS_beh	LREFPNDF1		
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	Operate value		
MinOp-Tmms	ABBIED600_Rev1_ING_SG	Minimum Oper-ate Time		
RstMod	ABBIED600_Rev3_ENG_SG_RstMod	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	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	LREFPNDF1	E	ABBIED600:2014,status-only,direct-with-normal-security
CTConnTyp	ABBIED600_Rev2_ENG_SP_CTConnTyp_e	CT connection type	E	ABBIED600:2014
Blk2HSt	ABBIED600_Rev1_ACT_simple_e	2nd harmonic restraint	E	ABBIED600:2014

6.2.162 LN: EFHPTOC2 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv	Type of Reset Curve		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
AMeasMod	ABBIED600_Rev2_ENG_SP_MeasMod_e	Measurement mode selection	E	ABBIED600:2014
StrValMult	ABBIED600_Rev3_ASG_SG_i_e	Multiplier for operate current level	E	ABBIED600:2014
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
InEnaMult	ABBIED600_Rev1_SPS_e	Enable current multiplier	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
AResSigSel	ABBIED600_Rev2_ENG_SP_AResSigSel_e	Selection for used Io signal	E	ABBIED600:2014

6.2.163 LN: LSHDPTRC1 Name: PTRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Op	ABBIED600_Rev1_ACT_simple	Operate		
Str	ABBIED600_Rev1_ACD_simple	Start		
OpDlTmms	ABBIED600_Rev1_ING_SG	Time delay to restore		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
LodShdMod	ABBIED600_Rev2_ENG_SG_OpModProHz_e	Operation mode	E	ABBIED600:2014

6.2.164 LN: LSHDPTOF1 Name: PTOF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start of restore		
Op	ABBIED600_Rev1_ACT_simple	Restore the load		
StrVal	ABBIED600_Rev3_ASG_SG_i	Restore frequency		
ManRest	ABBIED600_Rev2_SPC_control_e	Manual restore command	E	ABBIED600:2014,status-only,direct-with-normal-security
RestMod	ABBIED600_Rev2_ENG_SG_AutoManMod_e	Restore mode	E	ABBIED600:2014
BlkRest	ABBIED600_Rev2_SPC_control_e	Cancel restore	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.165 LN: LSHDPTRC2 Name: PTRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Op	ABBIED600_Rev1_ACT_simple	Operate		
Str	ABBIED600_Rev1_ACD_simple	Start		

OpDlTmms	ABBIED600_Rev1_ING_SG	Time delay to restore		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
LodShdMod	ABBIED600_Rev2_ENG_SG_OpModProHz_e	Operation mode	E	ABBIED600:2014

6.2.166 LN: LSHDPTOF2 Name: PTOF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start of restore		
Op	ABBIED600_Rev1_ACT_simple	Restore the load		
StrVal	ABBIED600_Rev3_ASG_SG_i	Restore frequency		
ManRest	ABBIED600_Rev2_SPC_control_e	Manual restore command	E	ABBIED600:2014,status-only,direct-with-normal-security
RestMod	ABBIED600_Rev2_ENG_SG_AutoManMod_e	Restore mode	E	ABBIED600:2014
BlkRest	ABBIED600_Rev2_SPC_control_e	Cancel restore	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.167 LN: LSHDPTRC3 Name: PTRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Op	ABBIED600_Rev1_ACT_simple	Operate		
Str	ABBIED600_Rev1_ACD_simple	Start		
OpDlTmms	ABBIED600_Rev1_ING_SG	Time delay to restore		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
LodShdMod	ABBIED600_Rev2_ENG_SG_OpModProHz_e	Operation mode	E	ABBIED600:2014

6.2.168 LN: LSHDPTOF3 Name: PTOF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start of restore		
Op	ABBIED600_Rev1_ACT_simple	Restore the load		
StrVal	ABBIED600_Rev3_ASG_SG_i	Restore frequency		
ManRest	ABBIED600_Rev2_SPC_control_e	Manual restore command	E	ABBIED600:2014,status-only,direct-with-normal-security
RestMod	ABBIED600_Rev2_ENG_SG_AutoManMod_e	Restore mode	E	ABBIED600:2014
BlkRest	ABBIED600_Rev2_SPC_control_e	Cancel restore	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.169 LN: LSHDPTRC4 Name: PTRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Op	ABBIED600_Rev1_ACT_simple	Operate		
Str	ABBIED600_Rev1_ACD_simple	Start		
OpDlTmms	ABBIED600_Rev1_ING_SG	Time delay to restore		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
LodShdMod	ABBIED600_Rev2_ENG_SG_OpModProHz_e	Operation mode	E	ABBIED600:2014

6.2.170 LN: LSHDPTOF4 Name: PTOF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start of restore		
Op	ABBIED600_Rev1_ACT_simple	Restore the load		
StrVal	ABBIED600_Rev3_ASG_SG_i	Restore frequency		
ManRest	ABBIED600_Rev2_SPC_control_e	Manual restore command	E	ABBIED600:2014,status-only,direct-with-normal-security
RestMod	ABBIED600_Rev2_ENG_SG_AutoManMod_e	Restore mode	E	ABBIED600:2014
BlkRest	ABBIED600_Rev2_SPC_control_e	Cancel restore	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.171 LN: LSHDPTRC5 Name: PTRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Op	ABBIED600_Rev1_ACT_simple	Operate		
Str	ABBIED600_Rev1_ACD_simple	Start		
OpDlTmms	ABBIED600_Rev1_ING_SG	Time delay to restore		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
LodShdMod	ABBIED600_Rev2_ENG_SG_OpModProHz_e	Operation mode	E	ABBIED600:2014

6.2.172 LN: LSHDPTOF5 Name: PTOF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start of restore		
Op	ABBIED600_Rev1_ACT_simple	Restore the load		
StrVal	ABBIED600_Rev3_ASG_SG_i	Restore frequency		

ManRest	ABBIED600_Rev2_SPC_control_e	Manual restore command	E	ABBIED600:2014,status-only,direct-with-normal-security
RestMod	ABBIED600_Rev2_ENG_SG_AutoManMod_e	Restore mode	E	ABBIED600:2014
BlkRest	ABBIED600_Rev2_SPC_control_e	Cancel restore	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.173 LN: FRPTRC5 Name: PTRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Op	ABBIED600_Rev1_ACT_simple	Operate		
Str	ABBIED600_Rev1_ACD_simple	Start		
TestPro	ABBIED600_Rev1_ENC_TestPro_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
OpModProHz	ABBIED600_Rev2_ENG_SG_OpModProHz_e	Operation mode	E	ABBIED600:2014

6.2.174 LN: FRPTOF5 Name: PTOF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start, overfrequency		
Op	ABBIED600_Rev1_ACT_simple	Operate, overfrequency		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time, overfrequency	E	ABBIED600:2014

6.2.175 LN: FRPTUF5 Name: PTUF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start, underfrequency		
Op	ABBIED600_Rev1_ACT_simple	Operate, underfrequency		

StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time, underfrequency	E	ABBIED600:2014

6.2.176 LN: FRPFRC5 Name: PFRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start, frequency gradient		
Op	ABBIED600_Rev1_ACT_simple	Operate, frequency gradient		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value df/dt		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time, frequency gradient	E	ABBIED600:2014

6.2.177 LN: FRPTRC6 Name: PTRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Op	ABBIED600_Rev1_ACT_simple	Operate		
Str	ABBIED600_Rev1_ACD_simple	Start		
TestPro	ABBIED600_Rev1_ENC_TestPro_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
OpModProHz	ABBIED600_Rev2_ENG_SG_OpModProHz_e	Operation mode	E	ABBIED600:2014

6.2.178 LN: FRPTOF6 Name: PTOF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start, overfrequency		
Op	ABBIED600_Rev1_ACT_simple	Operate, overfrequency		

StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time, overfrequency	E	AB-BIED600:2014

6.2.179 LN: FRPTUF6 Name: PTUF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start, underfrequency		
Op	ABBIED600_Rev1_ACT_simple	Operate, underfrequency		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time, underfrequency	E	AB-BIED600:2014

6.2.180 LN: FRPFRC6 Name: PFRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start, frequency gradient		
Op	ABBIED600_Rev1_ACT_simple	Operate, frequency gradient		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value df/dt		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time, frequency gradient	E	AB-BIED600:2014

6.2.181 LN: RESVMMXU2 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
PhV	ABBIED600_Rev3_WYE_res_full_i	Residual voltage		
VMeasMod	ABBIED600_Rev2_ENG_SP_MeasMod_e	Selects used measurement mode	E	ABBIED600:2014
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	ABBIED600:2014

HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	ABBIED600:2014
RcdRs	ABBIED600_Rev2_SPC_control_e	RESVMMXU2 demands	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.182 LN: RESTVTR2 Name: TVTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Mode		
VolSv	ABBIED600_Rev1_SAV_92_lite	Voltage (sampled value)		
VRtg	ABBIED600_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	Alarm		
Wrn	ABBIED600_Rev1_SPS	Warning		
VRtgScy	ABBIED600_Rev1_ASG_SP_f_e	Rated secondary voltage	E	ABBIED600:2014

6.2.183 LN: DPHHPTOC2 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv	Selection of reset curve type		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod	Directional Mode		
InEnaMult	ABBIED600_Rev1_SPS_e	Enables current multiplier	E	ABBIED600:2014

NumPh	AB-BIED600_Rev2_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	ABBIED600:2014
StrValMult	ABBIED600_Rev3_ASG_SG_i_e	Multiplier for scaling the start value	E	ABBIED600:2014
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
AMeas-Mod	ABBIED600_Rev2_ENG_SP_Meas-Mod_e	Selects used measurement mode	E	ABBIED600:2014
TestPro	ABBIED600_Rev1_ENC_TestPro_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
AllwNonDir	ABBIED600_Rev1_SPG_SP_e	Allows prot activation as non-dir when dir info is invalid	E	ABBIED600:2014
NonDir	ABBIED600_Rev1_SPS_e	Forces protection to non-directional	E	ABBIED600:2014

6.2.184 LN: DPHHRDIR2 Name: RDIR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Dir	AB-BIED600_Rev1_ACD_threephase	DIR		
ChrAng	ABBIED600_Rev3_ASG_SG_i	Characteristic angle		
MinFwdAng	ABBIED600_Rev3_ASG_SG_i	Minimum phase angle in forward direction		
MinRvAng	ABBIED600_Rev3_ASG_SG_i	Minimum phase angle in reverse direction		
MaxFwdAng	ABBIED600_Rev3_ASG_SG_i	Maximum phase angle in forward direction		
MaxRvAng	ABBIED600_Rev3_ASG_SG_i	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	AB-BIED600_Rev3_ENG_SG_PolQty	Polarizing quantity		
VMemTmms	ABBIED600_Rev1_ING_SG_e	Voltage memory time	E	AB-BIED600:2014
Op-ChrAngPhsA	ABBIED600_Rev3_MV_simple_i_e	Calc angle difference phase A	E	AB-BIED600:2014
Op-ChrAngPhsB	ABBIED600_Rev3_MV_simple_i_e	Calc angle difference phase B	E	AB-BIED600:2014
Op-ChrAngPhsC	ABBIED600_Rev3_MV_simple_i_e	Calc angle difference phase C	E	AB-BIED600:2014
VMemUsedSt	ABBIED600_Rev1_SPS_e	Voltage memory in use status	E	AB-BIED600:2014

6.2.185 LN: DEFLPTOC3 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG	Curve parameter E		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv	Selection of reset curve type		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod	Directional Mode		
VStr	ABBIED600_Rev3_ASG_SG_i_e	Voltage start value	E	IEC 61850-7-4:2007
StrValMult	ABBIED600_Rev3_ASG_SG_i_e	Multiplier for scaling the start value	E	ABBIED600:2014
AllwNonDir	ABBIED600_Rev1_SPG_SP_e	Allows prot activation as non-dir when dir info is invalid	E	ABBIED600:2014
AMeasMod	ABBIED600_Rev2_ENG_SP_MeasMod_e	Selects used measurement mode	E	ABBIED600:2014
InEnaMult	ABBIED600_Rev1_SPS_e	Enables current multiplier	E	ABBIED600:2014
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
EnaVLim	ABBIED600_Rev1_SPG_SG_e	Enable voltage limit	E	ABBIED600:2014
TestPro	ABBIED600_Rev1_ENC_TestPro_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
AResSigSel	ABBIED600_Rev2_ENG_SP_AResSigSel_e	Selection for used Io signal	E	ABBIED600:2014

6.2.186 LN: DEFLRDIR3 Name: RDIR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Dir	ABBIED600_Rev1_ACD_simple	Direction		
ChrAng	ABBIED600_Rev3_ASG_SG_i	Characteristic angle		
MinFwdAng	ABBIED600_Rev3_ASG_SG_i	Minimum phase angle in forward direction		
MinRvAng	ABBIED600_Rev3_ASG_SG_i	Minimum phase angle in reverse direction		
MaxFwdAng	ABBIED600_Rev3_ASG_SG_i	Maximum phase angle in forward direction		
MaxRvAng	ABBIED600_Rev3_ASG_SG_i	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_Rev3_ENG_SG_PolQty	Polarizing quantity		
InRcaCtl	ABBIED600_Rev1_SPS_e	Relay characteristic angle control	E	ABBIED600:2014
OpModEF	ABBIED600_Rev2_ENG_SG_OpModEF_e	Operation criteria	E	ABBIED600:2014
CorAng	ABBIED600_Rev3_ASG_SP_i_e	Correction angle	E	ABBIED600:2014
RevPol	ABBIED600_Rev1_SPG_SP_e	Rotate polarizing quantity	E	ABBIED600:2014
OpAEF	ABBIED600_Rev3_MV_simple_i_e	Operating current for EF protection	E	ABBIED600:2014
OpPolAng	ABBIED600_Rev3_MV_simple_i_e	Angle between operating and polarizing quantity	E	ABBIED600:2014
OpChrAng	ABBIED600_Rev3_MV_simple_i_e	Angle between operating angle and characteristic angle	E	ABBIED600:2014
VResSigSel	ABBIED600_Rev2_ENG_SP_VResSigSel_e	Selection for polarization signal	E	ABBIED600:2014

6.2.187 LN: WPSDE1 Name: PSDE (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
GndStr	ABBIED600_Rev3_ASG_SG_i	Voltage start value		
GndOp	ABBIED600_Rev3_ASG_SG_i	Current start value		

OpDlTmms	ABBIED600_Rev1_ING_SG	Operate delay time		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod	Directional mode		
StrVal	ABBIED600_Rev3_ASG_SG_i_e	Power start value	E	IEC 61850-7-4:2007
TmACrv	AB-BIED600_Rev2_CURVE_SG_setChar-act_e	Operating curve type	E	IEC 61850-7-4:2007
TmMult	ABBIED600_Rev3_ASG_SG_i_e	Time multiplier	E	IEC 61850-7-4:2007
RsDlTmms	ABBIED600_Rev1_ING_SP_1_e	Reset delay time	E	IEC 61850-7-4:2007
RefW	ABBIED600_Rev3_ASG_SG_i_e	Reference power	E	ABBIED600:2014
AMeasMod	ABBIED600_Rev2_ENG_SP_Meas-Mod_e	Measurement mode	E	ABBIED600:2014
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev1_ENC_TestPro_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-secu-rity
AResSigSel	ABBIED600_Rev2_ENG_SP_AResSig-Sel_e	Selection for used Io signal	E	ABBIED600:2014

6.2.188 LN: WRDIR1 Name: RDIR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Dir	ABBIED600_Rev1_ACD_simple	Direction information		
ChrAng	ABBIED600_Rev3_ASG_SG_i	Characteristic angle		
BlkValA	ABBIED600_Rev3_ASG_SP_i	Min operate current		
BlkValV	ABBIED600_Rev3_ASG_SP_i	Min operate voltage		
CorAng	ABBIED600_Rev3_ASG_SP_i_e	Correction angle	E	AB-BIED600:2014
RevPol	ABBIED600_Rev1_SPG_SP_e	Pol reversal	E	AB-BIED600:2014
OpPolAng	ABBIED600_Rev3_MV_simple_i_e	Angle between operating and polarizing quantity	E	AB-BIED600:2014
OpChrAng	ABBIED600_Rev3_MV_simple_i_e	Angle between operating angle and characteristic angle	E	AB-BIED600:2014
InRcaCtl	ABBIED600_Rev1_SPS_e	Relay characteristic angle con-trol	E	AB-BIED600:2014
VResSigSel	ABBIED600_Rev2_ENG_SP_VRes-SigSel_e	Selection for polarization signal	E	AB-BIED600:2014

6.2.189 LN: HAEFPTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev1_ING_SG	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv	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	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
EnaRef	ABBIED600_Rev1_SPG_SG_e	Enable reference	E	ABBIED600:2014
HRmsARef	ABBIED600_Rev3_WYE_res_simple_i_e	Reference current from other IEDs	E	ABBIED600:2014
BlkARef	ABBIED600_Rev1_SPS_e	Current comparison status indicator	E	ABBIED600:2014

6.2.190 LN: PHPTUC1 Name: PTUC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		

StrVal	ABBIED600_Rev3_ASG_SG_i	Current setting/Start value high		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
BlkValA	ABBIED600_Rev3_ASG_SG_i	Current setting/Start value low		
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
OpModPh	ABBIED600_Rev2_ENG_SP_OpModPh_e	Operation mode	E	ABBIED600:2014

6.2.191 LN: DARREC1 Name: RREC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
OpCntRs	ABBIED600_Rev1_INC_simple_int_e	Resetable operation counter (all shots)	E	IEC 61850-7-4:2007,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_ENS_AutoRecSt	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)	E	IEC 61850-7-4:2007
BlkRec	ABBIED600_Rev2_SPC_control_e	Block reclose	E	ABBIED600:2014,status-only,direct-with-normal-se-curity
RecCnt1	ABBIED600_Rev1_INS_e	Operation counter (1st shot)	E	ABBIED600:2014
RecCnt2	ABBIED600_Rev1_INS_e	Operation counter (2nd shot)	E	ABBIED600:2014
RecCnt3	ABBIED600_Rev1_INS_e	Operation counter (3rd shot)	E	ABBIED600:2014
RecCnt4	ABBIED600_Rev1_INS_e	Operation counter (4th shot)	E	ABBIED600:2014
RecCnt5	ABBIED600_Rev1_INS_e	Operation counter (5th shot)	E	ABBIED600:2014
AutoIni	ABBIED600_Rev1_ING_SP_1_e	Auto init	E	ABBIED600:2014
RecOp	ABBIED600_Rev2_ENG_SP_re-cOp_e	Reclosing operation	E	ABBIED600:2014
ManClsMod	ABBIED600_Rev1_SPG_SP_e	Manual close mode	E	ABBIED600:2014
WtClsTmms	ABBIED600_Rev1_ING_SP_e	Wait close time	E	ABBIED600:2014
MaxWtTmms	ABBIED600_Rev1_ING_SP_e	Max wait time	E	ABBIED600:2014
Max-BlkTmms	ABBIED600_Rev1_ING_SP_e	Max Thm block time	E	ABBIED600:2014
CutOutT-mms	ABBIED600_Rev1_ING_SP_e	Cut-out time	E	ABBIED600:2014
DsrTmms1	ABBIED600_Rev1_ING_SP_e	Dsr time shot 1	E	ABBIED600:2014
DsrTmms2	ABBIED600_Rev1_ING_SP_e	Dsr time shot 2	E	ABBIED600:2014
DsrTmms3	ABBIED600_Rev1_ING_SP_e	Dsr time shot 3	E	ABBIED600:2014
DsrTmms4	ABBIED600_Rev1_ING_SP_e	Dsr time shot 4	E	ABBIED600:2014
TermPrio	ABBIED600_Rev2_ENG_SP_term-Prio_e	Terminal priority	E	ABBIED600:2014
SynSet	ABBIED600_Rev1_ING_SP_1_e	Synchronisation set	E	ABBIED600:2014
AutoWtT-mms	ABBIED600_Rev1_ING_SP_e	Auto wait time	E	ABBIED600:2014
AutoLORs	ABBIED600_Rev1_SPG_SP_e	Auto lockout reset	E	ABBIED600:2014
ProCrdLim	ABBIED600_Rev1_ING_SP_1_e	Protection crd limit	E	ABBIED600:2014
ProCrdMod	ABBIED600_Rev2_ENG_SP_proCrd-Mod_e	Protection crd mode	E	ABBIED600:2014
AutoIniCnd	ABBIED600_Rev2_ENG_SP_autoIn-iCnd_e	Auto initiation cnd	E	ABBIED600:2014
TrLin	ABBIED600_Rev1_ING_SP_1_e	Tripping line	E	ABBIED600:2014

CtlLin	ABBIED600_Rev1_ING_SP_1_e	Control line	E	ABBIED600:2014
EnaShotJmp	ABBIED600_Rev1_SPG_SP_e	Enable shot jump	E	ABBIED600:2014
CBClsPosSt	ABBIED600_Rev1_SPG_SP_e	CB closed Pos status	E	ABBIED600:2014
Ena4DlSOF	ABBIED600_Rev1_SPG_SP_e	Fourth delay in SOTF	E	ABBIED600:2014
IniSigCBB1	ABBIED600_Rev1_ING_SP_1_e	Init signals CBB1	E	ABBIED600:2014
IniSigCBB2	ABBIED600_Rev1_ING_SP_1_e	Init signals CBB2	E	ABBIED600:2014
IniSigCBB3	ABBIED600_Rev1_ING_SP_1_e	Init signals CBB3	E	ABBIED600:2014
IniSigCBB4	ABBIED600_Rev1_ING_SP_1_e	Init signals CBB4	E	ABBIED600:2014
IniSigCBB5	ABBIED600_Rev1_ING_SP_1_e	Init signals CBB5	E	ABBIED600:2014
IniSigCBB6	ABBIED600_Rev1_ING_SP_1_e	Init signals CBB6	E	ABBIED600:2014
IniSigCBB7	ABBIED600_Rev1_ING_SP_1_e	Init signals CBB7	E	ABBIED600:2014
BlkSigCBB1	ABBIED600_Rev1_ING_SP_1_e	Blk signals CBB1	E	ABBIED600:2014
BlkSigCBB2	ABBIED600_Rev1_ING_SP_1_e	Blk signals CBB2	E	ABBIED600:2014
BlkSigCBB3	ABBIED600_Rev1_ING_SP_1_e	Blk signals CBB3	E	ABBIED600:2014
BlkSigCBB4	ABBIED600_Rev1_ING_SP_1_e	Blk signals CBB4	E	ABBIED600:2014
BlkSigCBB5	ABBIED600_Rev1_ING_SP_1_e	Blk signals CBB5	E	ABBIED600:2014
BlkSigCBB6	ABBIED600_Rev1_ING_SP_1_e	Blk signals CBB6	E	ABBIED600:2014
BlkSigCBB7	ABBIED600_Rev1_ING_SP_1_e	Blk signals CBB7	E	ABBIED600:2014
ShotNum1	ABBIED600_Rev1_ING_SP_1_e	Shot number CBB1	E	ABBIED600:2014
ShotNum2	ABBIED600_Rev1_ING_SP_1_e	Shot number CBB2	E	ABBIED600:2014
ShotNum3	ABBIED600_Rev1_ING_SP_1_e	Shot number CBB3	E	ABBIED600:2014
ShotNum4	ABBIED600_Rev1_ING_SP_1_e	Shot number CBB4	E	ABBIED600:2014
ShotNum5	ABBIED600_Rev1_ING_SP_1_e	Shot number CBB5	E	ABBIED600:2014
ShotNum6	ABBIED600_Rev1_ING_SP_1_e	Shot number CBB6	E	ABBIED600:2014
ShotNum7	ABBIED600_Rev1_ING_SP_1_e	Shot number CBB7	E	ABBIED600:2014
Str2Tmms1	ABBIED600_Rev1_ING_SP_e	Str 2 delay shot 1	E	ABBIED600:2014
Str2Tmms2	ABBIED600_Rev1_ING_SP_e	Str 2 delay shot 2	E	ABBIED600:2014
Str2Tmms3	ABBIED600_Rev1_ING_SP_e	Str 2 delay shot 3	E	ABBIED600:2014
Str2Tmms4	ABBIED600_Rev1_ING_SP_e	Str 2 delay shot 4	E	ABBIED600:2014
Str3Tmms1	ABBIED600_Rev1_ING_SP_e	Str 3 delay shot 1	E	ABBIED600:2014
Str3Tmms2	ABBIED600_Rev1_ING_SP_e	Str 3 delay shot 2	E	ABBIED600:2014
Str3Tmms3	ABBIED600_Rev1_ING_SP_e	Str 3 delay shot 3	E	ABBIED600:2014
Str3Tmms4	ABBIED600_Rev1_ING_SP_e	Str 3 delay shot 4	E	ABBIED600:2014
Str4Tmms1	ABBIED600_Rev1_ING_SP_e	Str 4 delay shot 1	E	ABBIED600:2014
Str4Tmms2	ABBIED600_Rev1_ING_SP_e	Str 4 delay shot 2	E	ABBIED600:2014
Str4Tmms3	ABBIED600_Rev1_ING_SP_e	Str 4 delay shot 3	E	ABBIED600:2014
Str4Tmms4	ABBIED600_Rev1_ING_SP_e	Str 4 delay shot 4	E	ABBIED600:2014
FrqCntLim	ABBIED600_Rev1_ING_SP_1_e	Frq Op counter limit	E	ABBIED600:2014
FrqCntTmm	ABBIED600_Rev1_ING_SP_1_e	Frq Op counter time	E	ABBIED600:2014

FrqRcvTmm	ABBIED600_Rev1_ING_SP_1_e	Frq Op recovery time	E	ABBIED600:2014
PlsTmms	ABBIED600_Rev1_ING_SP_e	Close pulse time	E	ABBIED600:2014
MaxTrTmms	ABBIED600_Rev1_ING_SP_e	Max trip time	E	ABBIED600:2014
InInhRec	ABBIED600_Rev1_SPS_e	Inhibit reclose (status)	E	ABBIED600:2014
InBlkThm	ABBIED600_Rev1_SPS_e	Thermal block (status)	E	ABBIED600:2014
LO	ABBIED600_Rev1_SPS_e	Lockout status	E	ABBIED600:2014
RdyRec	ABBIED600_Rev1_SPS_e	Ready reclose status	E	ABBIED600:2014
ActRec	ABBIED600_Rev1_SPS_e	Active reclose status	E	ABBIED600:2014
SucRec	ABBIED600_Rev1_SPS_e	Successful reclose status	E	ABBIED600:2014
UnsRec	ABBIED600_Rev1_SPS_e	Unsuccessful reclose status	E	ABBIED600:2014
PrgRec	ABBIED600_Rev1_SPS_e	In progress status	E	ABBIED600:2014
UnsCBCls	ABBIED600_Rev1_SPS_e	Unsuccessful CB closing status	E	ABBIED600:2014
WtMstr	ABBIED600_Rev1_SPS_e	Master signal to follower	E	ABBIED600:2014
PrgRec1	ABBIED600_Rev1_SPS_e	In progress 1st reclose	E	ABBIED600:2014
PrgRec2	ABBIED600_Rev1_SPS_e	In progress 2nd reclose	E	ABBIED600:2014
PrgRec3	ABBIED600_Rev1_SPS_e	In progress 3rd reclose	E	ABBIED600:2014
PrgRec4	ABBIED600_Rev1_SPS_e	In progress 4th reclose	E	ABBIED600:2014
PrgRec5	ABBIED600_Rev1_SPS_e	In progress 5th reclose	E	ABBIED600:2014
PrgDsr	ABBIED600_Rev1_SPS_e	Discrimination time in progress	E	ABBIED600:2014
PrgCutOut	ABBIED600_Rev1_SPS_e	Cutout time in progress	E	ABBIED600:2014
FrqOpCnt	ABBIED600_Rev1_INS_e	Frequent operation counter	E	ABBIED600:2014
FrqOpAlm	ABBIED600_Rev1_SPS_e	Frequent operation counter alarm	E	ABBIED600:2014
RecRs	ABBIED600_Rev2_SPC_control_e	DARREC1 reset	E	ABBIED600:2014,status-only,direct-with-normal-security
CntRs	ABBIED600_Rev2_SPC_control_e	DARREC1 counters	E	ABBIED600:2014,status-only,direct-with-normal-security
DsaCnt	ABBIED600_Rev2_SPC_control_e	Signal for counter disabling	E	ABBIED600:2014,status-only,direct-with-normal-security

RclTmStr	ABBIED600_Rev1_SPS_e	Reclaim time started	E	ABBIED600:2014
ProCrd	ABBIED600_Rev1_SPS_e	Protection coordination	E	ABBIED600:2014
CBManCls	ABBIED600_Rev1_SPS_e	CB manually closed	E	ABBIED600:2014
AutoRecOn	ABBIED600_Rev1_SPS_e	AR switched On	E	ABBIED600:2014
ShotPntr	ABBIED600_Rev1_INS_e	Shot pointer value	E	ABBIED600:2014
InRecOn	ABBIED600_Rev1_SPS_e	AR on/off control signal status	E	ABBIED600:2014
InBlkRclTm	ABBIED600_Rev1_SPS_e	Block reclaim time	E	ABBIED600:2014
InCBPos	ABBIED600_Rev1_SPS_e	CB position input	E	ABBIED600:2014
InCBRdy	ABBIED600_Rev1_SPS_e	CB ready for reclosing	E	ABBIED600:2014
InSynChk	ABBIED600_Rev1_SPS_e	Synchro check fulfilled	E	ABBIED600:2014
InIncrPntr	ABBIED600_Rev1_SPS_e	Shot pointer increment by one	E	ABBIED600:2014
InIni1	ABBIED600_Rev1_SPS_e	No 1 operate signal	E	ABBIED600:2014
InIni2	ABBIED600_Rev1_SPS_e	No 2 operate signal	E	ABBIED600:2014
InIni3	ABBIED600_Rev1_SPS_e	No 3 operate signal	E	ABBIED600:2014
InIni4	ABBIED600_Rev1_SPS_e	No 4 operate signal	E	ABBIED600:2014
InIni5	ABBIED600_Rev1_SPS_e	No 5 operate signal	E	ABBIED600:2014
InIni6	ABBIED600_Rev1_SPS_e	No 6 operate signal	E	ABBIED600:2014
InDlIni2	ABBIED600_Rev1_SPS_e	No 2 start signal	E	ABBIED600:2014
InDlIni3	ABBIED600_Rev1_SPS_e	No 3 start signal	E	ABBIED600:2014
InDlIni4	ABBIED600_Rev1_SPS_e	No 4 start signal	E	ABBIED600:2014
RclTmEla	ABBIED600_Rev1_SPS_e	Reclaim time elapsed	E	ABBIED600:2014
InBlkRecTm	ABBIED600_Rev1_SPS_e	Blocks and resets dead time	E	ABBIED600:2014
SOF	ABBIED600_Rev1_SPS_e	Switch on the fault	E	ABBIED600:2014
TestCtl	ABBIED600_Rev1_ENC_TestCtl_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.192 LN: CMHAI1 Name: MHAI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Hz	ABBIED600_Rev3_MV_simple_i	Fundamental frequency		

TddA	ABBIED600_Rev3_WYE_threephase_simple_i	Current Total Demand Distortion per IEEE 519		
NomA	ABBIED600_Rev3_ASG_SP_i	Normalising demand current used in IEEE 519 TDD calculation		
Alm	ABBIED600_Rev1_SPS	Alarm		
TddAVal	ABBIED600_Rev3_ASG_SP_i_e	TddA Alarm setting - value entered in %	E	ABBIED600:2014
RcdRs	ABBIED600_Rev2_SPC_control_e	CMHAI1 max.demands	E	ABBIED600:2014,status-only,direct-with-normal-security
DmdItrv	ABBIED600_Rev2_ENG_SP_dmdItrv_e	Time interval for demand calculation	E	ABBIED600:2014
DmdTddA	ABBIED600_Rev3_WYE_threephase_simple_i_e	Current Total Demand Distortion	E	ABBIED600:2014
MaxDmdTddA	ABBIED600_Rev3_WYE_threephase_simple_i_e	Maximum current total demand distortion	E	ABBIED600:2014
DmdWinMod	ABBIED600_Rev2_ENG_SP_DmdWinMod_e	Demand calculation window	E	ABBIED600:2014

6.2.193 LN: VMHAI1 Name: MHAI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
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	CMHAI1 max.demands	E	ABBIED600:2014,status-only,direct-with-normal-security

DmdItrv	ABBIED600_Rev2_ENG_SP_dmdItrv_e	Time interval for demand calculation	E	ABBIED600:2014
DmdThdPhV	ABBIED600_Rev3_WYE_threephase_simple_i_e	Voltage Total Harmonic Distortion	E	ABBIED600:2014
MaxDmdThdV	ABBIED600_Rev3_WYE_threephase_simple_i_e	Maximum voltage total harmonic distortion	E	ABBIED600:2014
DmdWinMod	ABBIED600_Rev2_ENG_SP_DmdWinMod_e	Demand calculation window	E	ABBIED600:2014

6.2.194 LN: PH1QVVR1 Name: QVVR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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	Voltage Dip Set Point 1		
DipStr2Val	ABBIED600_Rev3_ASG_SG_i_e	Voltage Dip Set Point 2	E	ABBIED600:2014
DipStr3Val	ABBIED600_Rev3_ASG_SG_i_e	Voltage Dip Set Point 3	E	ABBIED600:2014
SwlStrVal	ABBIED600_Rev3_ASG_SG_i	Voltage Swell Set Point 1		

SwlStr2Val	ABBIED600_Rev3_ASG_SG_i_e	Voltage Swell Set Point 2	E	ABBIED600:2014
SwlStr3Val	ABBIED600_Rev3_ASG_SG_i_e	Voltage Swell Set Point 3	E	ABBIED600:2014
IntrStrVal	ABBIED600_Rev3_ASG_SG_i	Voltage Interruption Set Point		
RefV	ABBIED600_Rev3_ASG_SG_i_e	Reference supply voltage in %	E	IEC 61850-7-4:2007
Dip1Cyc	ABBIED600_Rev3_ASG_SG_i_e	Voltage variation dip duration 1	E	ABBIED600:2014
Dip2Cyc	ABBIED600_Rev3_ASG_SG_i_e	Voltage variation dip duration 2	E	ABBIED600:2014
Dip3Tmms	ABBIED600_Rev1_ING_SG_e	Voltage variation dip duration 3	E	ABBIED600:2014
Swl1Cyc	ABBIED600_Rev3_ASG_SG_i_e	Voltage variation swell duration 1	E	ABBIED600:2014
Swl2Cyc	ABBIED600_Rev3_ASG_SG_i_e	Voltage variation swell duration 2	E	ABBIED600:2014
Swl3Tmms	ABBIED600_Rev1_ING_SG_e	Voltage variation swell duration 3	E	ABBIED600:2014
Intr1Cyc	ABBIED600_Rev3_ASG_SG_i_e	Voltage variation interruption duration 1	E	ABBIED600:2014
Intr2Cyc	ABBIED600_Rev3_ASG_SG_i_e	Voltage variation interruption duration 2	E	ABBIED600:2014
Intr3Tmms	ABBIED600_Rev1_ING_SG_e	Voltage variation interruption duration 3	E	ABBIED600:2014
MaxDurTmms	ABBIED600_Rev1_ING_SG_e	Maximum voltage variation duration	E	ABBIED600:2014
SwlOp	ABBIED600_Rev1_SPS_e	Voltage Event Swell detected	E	ABBIED600:2014
DipOp	ABBIED600_Rev1_SPS_e	Voltage Event Dip detected	E	ABBIED600:2014
IntrOp	ABBIED600_Rev1_SPS_e	Voltage Event Interruption detected	E	ABBIED600:2014
APreVa	ABBIED600_Rev3_MV_simple_i_e	Current magnitude Ph A preceding variation	E	ABBIED600:2014
SwlInstCnt	ABBIED600_Rev1_INS_e	Instantaneous swell operation counter	E	ABBIED600:2014
SwlMomCnt	ABBIED600_Rev1_INS_e	Momentary swell operation counter	E	ABBIED600:2014
SwlTmpCnt	ABBIED600_Rev1_INS_e	Temporary swell operation counter	E	ABBIED600:2014

SwlMaxCnt	ABBIED600_Rev1_INS_e	Maximum duration swell operation counter	E	ABBIED600:2014
DipInstCnt	ABBIED600_Rev1_INS_e	Instantaneous dip operation counter	E	ABBIED600:2014
DipTmpCnt	ABBIED600_Rev1_INS_e	Temporary dip operation counter	E	ABBIED600:2014
DipMomCnt	ABBIED600_Rev1_INS_e	Momentary dip operation counter	E	ABBIED600:2014
DipMaxCnt	ABBIED600_Rev1_INS_e	Maximum duration dip operation counter	E	ABBIED600:2014
IntrMomCnt	ABBIED600_Rev1_INS_e	Momentary interruption operation counter	E	ABBIED600:2014
IntrTmpCnt	ABBIED600_Rev1_INS_e	Temporary interruption operation counter	E	ABBIED600:2014
IntrSstCnt	ABBIED600_Rev1_INS_e	Sustained interruption operation counter	E	ABBIED600:2014
IntrMaxCnt	ABBIED600_Rev1_INS_e	Maximum duration interruptionl operation counter	E	ABBIED600:2014
RsCnt	ABBIED600_Rev2_SPC_control_e	Counters reset	E	ABBIED600:2014,status-only,direct-with-normal-security
PhSpvn	ABBIED600_Rev2_ENG_SP_PhSv_e	Monitored phase	E	ABBIED600:2014
OpModPh	ABBIED600_Rev2_ENG_SP_OpModPh_e	Phase mode	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
VVaEna	ABBIED600_Rev3_ENG_SP_VVaTyp_e	Variation enable	E	ABBIED600:2014
VaOp	ABBIED600_Rev1_SPS_e	Voltage Event detected	E	ABBIED600:2014
VaStrGen	ABBIED600_Rev1_SPS_e	Start (Voltage Variation Event in progress)	E	ABBIED600:2014
VVaTyp	ABBIED600_Rev3_ENS_VVaTyp_e	Voltage variation type	E	ABBIED600:2014
RcdRs	ABBIED600_Rev2_SPC_control_e	Recorded data reset	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.195 LN: PH2QVVR1 Name: QVVR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only

Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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	ABBIED600:2014

6.2.196 LN: PH3QVVR1 Name: QVVR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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	ABBIED600:2014

6.2.197 LN: VSQVUB1 Name: QVUB (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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	ABBIED600:2014
ObsPerSel	ABBIED600_Rev2_ENG_SP_ObsPerSel_e	Observation period duration	E	ABBIED600:2014
ObsPerUsr	ABBIED600_Rev1_ING_SP_1_e	User defined observation period	E	ABBIED600:2014

HiPctVUnb	ABBIED600_Rev1_SPS_e	Status percentile unbalance exceeds the limit	E	ABBIED600:2014
ObsPerAct	ABBIED600_Rev1_SPS_e	Observation period for statistical calculation active	E	ABBIED600:2014
PctUnbVal	ABBIED600_Rev3_MV_simple_i_e	Percentile value of voltage unbalance in an observation	E	ABBIED600:2014
VUnb3sMn	ABBIED600_Rev3_MV_simple_i_e	Non sliding 3 second mean value of voltage unbalance	E	ABBIED600:2014
VUnb10mMn	ABBIED600_Rev3_MV_simple_i_e	Sliding 10 minutes mean value of voltage unbalance	E	ABBIED600:2014
PctUnb	ABBIED600_Rev3_ASG_SP_i_e	Percentile Index	E	ABBIED600:2014
ObsPerStr	ABBIED600_Rev1_SPS_simple_e	Observation Start	E	ABBIED600:2014
ObsPerEnd	ABBIED600_Rev1_SPS_simple_e	Observation End	E	ABBIED600:2014
TestOth	ABBIED600_Rev1_ENC_TestOth_e	Test Outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
TrgObsPer	ABBIED600_Rev2_SPC_control_e	Trigger for observation period	E	ABBIED600:2014,status-only,direct-with-normal-security
RcdRs	ABBIED600_Rev2_SPC_control_e	Recorded data reset	E	ABBIED600:2014,status-only,direct-with-normal-security
PerStrDate	ABBIED600_Rev2_TSG_SP_setCal_e	Observation start time	E	ABBIED600:2014

6.2.198 LN: LOFLPTUC2 Name: PTUC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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	Current setting/Start value high		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
BlkValA	ABBIED600_Rev3_ASG_SG_i_e	Current setting/Start value low	E	IEC 61850-7-4:2007

StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.199 LN: MLPDIF1 Name: PDIF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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	Low operate value		
TestPro	ABBIED600_Rev1_ENC_TestPro_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
BlkInSt	ABBIED600_Rev1_ACT_threephase_e	Status from waveform blocking	E	ABBIED600:2014
SpeScn2	ABBIED600_Rev3_ASG_SG_i_e	Slope section 2	E	ABBIED600:2014
AngLinAB	ABBIED600_Rev3_MV_simple_i_e	Current phase angle phase A to B, line side	E	ABBIED600:2014
AngLinBC	ABBIED600_Rev3_MV_simple_i_e	Current phase angle phase B to C, line side	E	ABBIED600:2014
AngLinCA	ABBIED600_Rev3_MV_simple_i_e	Current phase angle phase C to A, line side	E	ABBIED600:2014
AngNeutAB	ABBIED600_Rev3_MV_simple_i_e	Current phase angle phase A to B, neutral side	E	ABBIED600:2014
AngNeutBC	ABBIED600_Rev3_MV_simple_i_e	Current phase angle phase B to C, neutral side	E	ABBIED600:2014
AngNeutCA	ABBIED600_Rev3_MV_simple_i_e	Current phase angle phase C to A, neutral side	E	ABBIED600:2014
AngLinNeutA	ABBIED600_Rev3_MV_simple_i_e	Current phs angle diff between	E	ABBIED600:2014

		line and neutral, phase A		
AngLinNeutB	ABBIED600_Rev3_MV_simple_i_e	Current phs angle diff between line and neutral, phase B	E	ABBIED600:2014
AngLinNeutC	ABBIED600_Rev3_MV_simple_i_e	Current phs angle diff between line and neutral, phase C	E	ABBIED600:2014
EndScn1	ABBIED600_Rev3_ASG_SG_i_e	End section 1	E	ABBIED600:2014
EndScn2	ABBIED600_Rev3_ASG_SG_i_e	End section 2	E	ABBIED600:2014
CTConnTyp	ABBIED600_Rev2_ENG_SP_CTConnTyp_e	CT connection type	E	ABBIED600:2014
EnaDCBias	ABBIED600_Rev1_SPG_SG_e	Setting for enabling DC bias	E	ABBIED600:2014
CTRatCor1	ABBIED600_Rev3_ASG_SP_i_e	CT ratio correction, line side	E	ABBIED600:2014
CTRatCor2	ABBIED600_Rev3_ASG_SP_i_e	CT ratio correction, neutral side	E	ABBIED600:2014

6.2.200 LN: CMMXU2 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
A	ABBIED600_Rev3_WYE_threephase_full_i	Phase currents		
AMeasMod	ABBIED600_Rev2_ENG_SP_MeasMod_e	Selects used measurement mode	E	ABBIED600:2014
NumPh	ABBIED600_Rev2_ENG_SP_StrPhSel_e	Number of phases required by limit supervision	E	ABBIED600:2014
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	ABBIED600:2014
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	ABBIED600:2014
LoWrn	ABBIED600_Rev1_SPS_e	Low warning	E	ABBIED600:2014
LoAlm	ABBIED600_Rev1_SPS_e	Low alarm	E	ABBIED600:2014
RcdRs	ABBIED600_Rev2_SPC_control_e	CMMXU2 demands	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.201 LN: OEPVPH1 Name: PVPH (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security

Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
VHzCrv	AB-BIED600_Rev2_CURVE_SG_setChar-act	Operation curve type		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate delay time		
RsDlTmms	ABBIED600_Rev1_ING_SP	Reset delay time		
TmMult	ABBIED600_Rev3_ASG_SG_i	Time multiplier		
MinOpTmms	ABBIED600_Rev1_ING_SP	Minimum operate time		
Max-OpTmms	ABBIED600_Rev1_ING_SP	Maximum oper-ate time		
StrInh	ABBIED600_Rev1_SPS_e	Restart inhibited	E	IEC 61850-7-4:2007
ClAct	ABBIED600_Rev1_SPS_e	Cooling active signal	E	ABBIED600:2014
VHzRat	ABBIED600_Rev3_MV_simple_i_e	Relative voltage to frequency ratio	E	ABBIED600:2014
StrDur	ABBIED600_Rev3_MV_2_e	Start duration	E	ABBIED600:2014
MaxVCont	ABBIED600_Rev3_ASG_SP_i_e	Maximum al-lowed continuous voltage	E	ABBIED600:2014
ClTms	ABBIED600_Rev1_ING_SP_1_e	Cooling time in seconds	E	ABBIED600:2014
ConsDlT-mms	ABBIED600_Rev1_ING_SP_e	Constant delay parameter	E	ABBIED600:2014
XLeak	ABBIED600_Rev3_ASG_SP_i_e	Winding leakage reactance	E	ABBIED600:2014
VSel	ABBIED600_Rev3_ENG_SP_VSel_e	Voltage selection	E	ABBIED600:2014
VPhSel	ABBIED600_Rev2_ENG_SP_VPhSel_e	Voltage phase selection	E	ABBIED600:2014
TmsRecEna	ABBIED600_Rev1_INS_e	Estimated time to reset of block re-start in seconds	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-se-curity

6.2.202 LN: OEPVPH2 Name: PVPH (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_Of-fOn_FD	Mode		status-only,direct-with-nor-mal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		

Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
VHzCrv	AB-BIED600_Rev2_CURVE_SG_setChar-act	Operation curve type		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate delay time		
RsDlTmms	ABBIED600_Rev1_ING_SP	Reset delay time		
TmMult	ABBIED600_Rev3_ASG_SG_i	Time multiplier		
MinOpTmms	ABBIED600_Rev1_ING_SP	Minimum operate time		
Max-OpTmms	ABBIED600_Rev1_ING_SP	Maximum oper-ate time		
StrInh	ABBIED600_Rev1_SPS_e	Restart inhibited	E	IEC 61850-7-4:2007
ClAct	ABBIED600_Rev1_SPS_e	Cooling active signal	E	ABBIED600:2014
VHzRat	ABBIED600_Rev3_MV_simple_i_e	Relative voltage to frequency ratio	E	ABBIED600:2014
StrDur	ABBIED600_Rev3_MV_2_e	Start duration	E	ABBIED600:2014
MaxVCont	ABBIED600_Rev3_ASG_SP_i_e	Maximum al-lowed continuous voltage	E	ABBIED600:2014
ClTms	ABBIED600_Rev1_ING_SP_1_e	Cooling time in seconds	E	ABBIED600:2014
ConsDlT-mms	ABBIED600_Rev1_ING_SP_e	Constant delay parameter	E	ABBIED600:2014
XLeak	ABBIED600_Rev3_ASG_SP_i_e	Winding leakage reactance	E	ABBIED600:2014
VSel	ABBIED600_Rev3_ENG_SP_VSel_e	Voltage selection	E	ABBIED600:2014
VPhSel	ABBIED600_Rev2_ENG_SP_VPhSel_e	Voltage phase selection	E	ABBIED600:2014
TmsRecEna	ABBIED600_Rev1_INS_e	Estimated time to reset of block re-start in seconds	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-se-curity

6.2.203 LN: PHPTUC2 Name: PTUC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_Of-fOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		

Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i	Current setting/Start value high		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
BlkValA	ABBIED600_Rev3_ASG_SG_i	Current setting/Start value low		
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
OpModPh	ABBIED600_Rev2_ENG_SP_OpModPh_e	Operation mode	E	ABBIED600:2014

6.2.204 LN: PHLPTOC3 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv	Type of Reset Curve		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	ABBIED600:2014
NumPh	ABBIED600_Rev2_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	ABBIED600:2014

StrValMult	ABBIED600_Rev3_ASG_SG_i_e	Multiplier for scaling the start value	E	ABBIED600:2014
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
AMeasMod	ABBIED600_Rev2_ENG_SP_MeasMod_e	Measuring mode	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.205 LN: PHHPTOC3 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv	Type of Reset Curve		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	ABBIED600:2014
NumPh	ABBIED600_Rev2_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	ABBIED600:2014
StrValMult	ABBIED600_Rev3_ASG_SG_i_e	Multiplier for scaling the start value	E	ABBIED600:2014
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
AMeasMod	ABBIED600_Rev2_ENG_SP_MeasMod_e	Measuring mode	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.206 LN: NSPTOC3 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv	Type of Reset Curve		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	ABBIED600:2014
StrValMult	ABBIED600_Rev3_ASG_SG_i_e	Multiplier for scaling the start value	E	ABBIED600:2014
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.207 LN: PHPTUC3 Name: PTUC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i	Current setting/Start value high		

OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
BlkValA	ABBIED600_Rev3_ASG_SG_i	Current setting/Start value low		
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
OpModPh	ABBIED600_Rev2_ENG_SP_OpModPh_e	Operation mode	E	ABBIED600:2014

6.2.208 LN: EFLPTOC3 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv	Type of Reset Curve		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
AMeasMod	ABBIED600_Rev2_ENG_SP_MeasMod_e	Measurement mode selection	E	ABBIED600:2014
StrValMult	ABBIED600_Rev3_ASG_SG_i_e	Multiplier for operate current level	E	ABBIED600:2014
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
InEnaMult	ABBIED600_Rev1_SPS_e	Enable current multiplier	E	ABBIED600:2014

TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
AResSigSel	ABBIED600_Rev2_ENG_SP_AResSig-Sel_e	Selection for used Io signal	E	ABBIED600:2014

6.2.209 LN: EFHPTOC3 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_Of-fOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary out-puts		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i	Time Dial Mul-tiplier		
MinOpTmms	ABBIED600_Rev1_ING_SP_1	Minimum Op-erate Time		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
TypRsCrv	AB-BIED600_Rev3_ENG_SG_TypRsCrv	Type of Reset Curve		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
AMeasMod	ABBIED600_Rev2_ENG_SP_Meas-Mod_e	Measurement mode selection	E	ABBIED600:2014
StrValMult	ABBIED600_Rev3_ASG_SG_i_e	Multiplier for operate current level	E	ABBIED600:2014
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
InEnaMult	ABBIED600_Rev1_SPS_e	Enable current multiplier	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
AResSigSel	ABBIED600_Rev2_ENG_SP_AResSig-Sel_e	Selection for used Io signal	E	ABBIED600:2014

6.2.210 LN: TR3LPDIF1 Name: PDIF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		

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	Restraint Current		
LoSet	ABBIED600_Rev3_ASG_SG_i	Low operate value		
RstMod	ABBIED600_Rev3_ENG_SG_RstMod	Restraint mode		
Blk	ABBIED600_Rev1_SPS_simple	Blocks operate outputs from biased stage		
TestPro	ABBIED600_Rev1_ENC_TestPro_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
SpeScn2	ABBIED600_Rev3_ASG_SG_i_e	Slope section 2	E	ABBIED600:2014
EndScn2	ABBIED600_Rev3_ASG_SG_i_e	End section 2	E	ABBIED600:2014
AGrp3Typ	ABBIED600_Rev3_ENG_SP_AGrpTyp_e	Current group 3 type	E	ABBIED600:2014
CTConnTyp1	ABBIED600_Rev2_ENG_SP_CTConnTyp_e	CT connection 1-2	E	ABBIED600:2014
CTConnTyp2	ABBIED600_Rev2_ENG_SP_CTConnTyp_e	CT connection 1-3	E	ABBIED600:2014
PhShtRef	ABBIED600_Rev2_ENG_SP_WndSel_e	Phase Ref winding	E	ABBIED600:2014
ZroAElm	ABBIED600_Rev4_ENG_SP_ZroAElm_e	Zro A elimination	E	ABBIED600:2014
PhSht1	ABBIED600_Rev3_ASG_SP_i_e	Phase shift Wnd 1-3	E	ABBIED600:2014
PhSht2	ABBIED600_Rev3_ASG_SP_i_e	Phase shift Wnd 1-3	E	ABBIED600:2014
MinWndTap	ABBIED600_Rev1_ING_SP_1_e	Min winding tap	E	ABBIED600:2014
MaxWndTap	ABBIED600_Rev1_ING_SP_1_e	Max winding tap	E	ABBIED600:2014
TapNomLTC1	ABBIED600_Rev1_ING_SP_1_e	Tap nominal	E	ABBIED600:2014
TapWnd	ABBIED600_Rev2_ENG_SP_WndSel_e	Tapped winding	E	ABBIED600:2014
StepTap1	ABBIED600_Rev3_ASG_SP_i_e	Step of tap	E	ABBIED600:2014
HDBlk	ABBIED600_Rev1_SPG_SG_e	Harmonic deblock 2.	E	ABBIED600:2014
BlkWavSt	ABBIED600_Rev1_ACT_threephase_e	Status from waveform blocking	E	ABBIED600:2014
Blk2HSt	ABBIED600_Rev1_ACT_threephase_e	Status from 2nd harmonic restraint blocking	E	ABBIED600:2014
Blk5HSt	ABBIED600_Rev1_ACT_threephase_e	Status from 5th harmonic restraint blocking	E	ABBIED600:2014

ScyAComp	ABBIED600_Rev3_WYE_threephase_simple_i_e	Connection group compensated secondary current	E	ABBIED600:2014
PriAComp	ABBIED600_Rev3_WYE_threephase_simple_i_e	Connection group compensated primary current	E	ABBIED600:2014
TerAComp	ABBIED600_Rev3_WYE_threephase_simple_i_e	Connection group compensated tertiary current	E	ABBIED600:2014
AngPriAB	ABBIED600_Rev3_MV_simple_i_e	Curr ph angle A to B, winding 1	E	ABBIED600:2014
AngPriBC	ABBIED600_Rev3_MV_simple_i_e	Curr ph angle B to C, winding 1	E	ABBIED600:2014
AngPriCA	ABBIED600_Rev3_MV_simple_i_e	Curr ph angle C to A, winding 1	E	ABBIED600:2014
AngScyAB	ABBIED600_Rev3_MV_simple_i_e	Curr ph angle A to B, winding 2	E	ABBIED600:2014
AngScyBC	ABBIED600_Rev3_MV_simple_i_e	Curr ph angle B to C, winding 2	E	ABBIED600:2014
AngScyCA	ABBIED600_Rev3_MV_simple_i_e	Curr ph angle C to A, winding 2	E	ABBIED600:2014
AngTerAB	ABBIED600_Rev3_MV_simple_i_e	Curr ph angle A to B, winding 3	E	ABBIED600:2014
AngTerBC	ABBIED600_Rev3_MV_simple_i_e	Curr ph angle B to C, winding 3	E	ABBIED600:2014
AngTerCA	ABBIED600_Rev3_MV_simple_i_e	Curr ph angle C to A, winding 3	E	ABBIED600:2014
AngPriScyA	ABBIED600_Rev3_MV_simple_i_e	Curr ph A winding 1 to 2 angle	E	ABBIED600:2014
AngPriScyB	ABBIED600_Rev3_MV_simple_i_e	Curr ph B winding 1 to 2 angle	E	ABBIED600:2014
AngPriScyC	ABBIED600_Rev3_MV_simple_i_e	Curr ph C winding 1 to 2 angle	E	ABBIED600:2014
AngPriTerA	ABBIED600_Rev3_MV_simple_i_e	Curr ph A winding 1 to 3 angle	E	ABBIED600:2014
AngPriTerB	ABBIED600_Rev3_MV_simple_i_e	Curr ph B winding 1 to 3 angle	E	ABBIED600:2014
AngPriTerC	ABBIED600_Rev3_MV_simple_i_e	Curr ph C winding 1 to 3 angle	E	ABBIED600:2014
CTRatCor1	ABBIED600_Rev3_ASG_SP_i_e	CT ratio correction, winding 1	E	ABBIED600:2014
CTRatCor2	ABBIED600_Rev3_ASG_SP_i_e	CT ratio correction, winding 2	E	ABBIED600:2014
CTRatCor3	ABBIED600_Rev3_ASG_SP_i_e	CT ratio correction, current group 3	E	ABBIED600:2014

6.2.211 LN: TR3H2PHAR1 Name: PHAR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_threephase	Start (active when re-straint is needed)		
PhStr	ABBIED600_Rev3_ASG_SG_i	Start value 2.H		
AHRat	ABBIED600_Rev3_WYE_threephase_sim-ple_i_e	2nd harm to fund ratio of diff curr	E	AB-BIED600:2014

6.2.212 LN: TR3H5PHAR1 Name: PHAR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_threephase	Start (active when re-straint is needed)		
PhStr	ABBIED600_Rev3_ASG_SG_i	Start value 5.H		
PhStop	ABBIED600_Rev3_ASG_SG_i	Stop value		
HDBlk	ABBIED600_Rev1_SPG_SG_e	Harmonic deblock 5.	E	AB-BIED600:2014
AHRat	ABBIED600_Rev3_WYE_threephase_sim-ple_i_e	5th harm to fund ratio of diff curr	E	AB-BIED600:2014

6.2.213 LN: TR3HPDIF1 Name: PDIF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Op	ABBIED600_Rev1_ACT_simple	Operate signal from high (instanta-neous) stage		
HiSet	ABBIED600_Rev3_ASG_SG_i	High operate value		
EnaHiSet	ABBIED600_Rev1_SPG_SG_e	Enable high set	E	AB-BIED600:2014
Blk	ABBIED600_Rev1_SPS_simple	Blocks operate outputs from instan-taneous stage		

6.2.214 LN: ARCSARC11 Name: SARC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_Of-fOn_FD	Mode		status-only,direct-with-normal-se-curity
Beh	ABBIED600_Rev2_ENS_beh	Beh		
FACntRs	ABBIED600_Rev2_INC_control_int	Fault arc coun-ter		status-only,direct-with-normal-se-curity

FADet	ABBIED600_Rev1_SPS	Fault arc detected		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
InRemFA	ABBIED600_Rev1_SPS_e	Remote Fault arc detected	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.215 LN: ARCPTRC11 Name: PTRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Beh		
Op	ABBIED600_Rev1_ACT_simple	Operate		
OpModArc	ABBIED600_Rev2_ENG_SG_OpModArc_e	Operation mode	E	ABBIED600:2014
InOpMod	ABBIED600_Rev1_SPS_e	Operation mode input	E	ABBIED600:2014

6.2.216 LN: CCBRBRF3 Name: RBRF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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	E	IEC 61850-7-4:2007
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
DetValARes	ABBIED600_Rev3_ASG_SP_i_e	Current Detector Value for residual current	E	ABBIED600:2014

AMeasMod	ABBIED600_Rev2_ENG_SP_Meas-Mod_e	Measurement mode selection (current): 2= DFT; 3= Peak-to-Peak	E	ABBIED600:2014
CBAlm-Tmms	ABBIED600_Rev1_ING_SP_e	Circuit breaker faulty alarm delay	E	ABBIED600:2014
OpExMod	ABBIED600_Rev2_ENG_SP_buTrip-Mode_e	Select type of backup trip logic	E	ABBIED600:2014
InStr	ABBIED600_Rev1_SPS_e	CBFP start command	E	ABBIED600:2014
InPosCls	ABBIED600_Rev1_SPS_e	CB in closed poisition	E	ABBIED600:2014
InCBFlt	ABBIED600_Rev1_SPS_e	CB faulty and unable to trip	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
StrLtcMod	AB-BIED600_Rev2_ENG_SP_StrLtcMod_e	Start reset delayed or immediately	E	ABBIED600:2014

6.2.217 LN: SSCBR3 Name: SCBR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OfOn_FD	Mod		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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	ABBIED600:2014
InPosCls	ABBIED600_Rev1_SPS_e	POSCLOSE	E	ABBIED600:2014
ColCls	ABBIED600_Rev1_SPS_simple_e	Close command status	E	ABBIED600:2014

PosOpn	ABBIED600_Rev1_SPS_e	CB position is open	E	ABBIED600:2014
PosIvd	ABBIED600_Rev1_SPS_e	INVALIDPOS	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_e	CB position is closed	E	ABBIED600:2014
OpnAlm	ABBIED600_Rev1_SPS_e	CB open travel time exceeded set value	E	ABBIED600:2014
ClsAlm	ABBIED600_Rev1_SPS_e	CB close travel time exceeded set value	E	ABBIED600:2014
OpCntLO	ABBIED600_Rev1_SPS_e	Number of CB operations exceeds lockout limit	E	ABBIED600:2014
LonTmAlm	ABBIED600_Rev1_SPS_e	CB 'not operated for long time' alarm	E	ABBIED600:2014
APwrAlm	ABBIED600_Rev1_SPS_e	Accumulated currents power (Iyt),exceeded alarm limit	E	ABBIED600:2014
APwrLO	ABBIED600_Rev1_SPS_e	Accumulated currents power (Iyt),exceeded lockout limit	E	ABBIED600:2014
RmnNumOpAlm	ABBIED600_Rev1_SPS_e	Remaining life of CB exceeded alarm limit	E	ABBIED600:2014
OpnAlmTmms	ABBIED600_Rev1_ING_SP_1_e	Setting of alarm level for open travel time in ms	E	ABBIED600:2014
CorOpnTmms	ABBIED600_Rev1_ING_SP_1_e	Correction factor for open travel time in ms	E	ABBIED600:2014
ClsAlmTmms	ABBIED600_Rev1_ING_SP_1_e	Setting of alarm level for close travel time in ms	E	ABBIED600:2014
CorClsTmms	ABBIED600_Rev1_ING_SP_1_e	Correction factor for CB close travel time in ms	E	ABBIED600:2014
CorDifTmms	ABBIED600_Rev1_ING_SP_1_e	Corr. factor for time dif in aux. and main contacts open time	E	ABBIED600:2014
OpLONum	ABBIED600_Rev1_ING_SP_1_e	Setting to block operation when number of operation is more.	E	ABBIED600:2014
OpNumRtg	ABBIED600_Rev1_ING_SP_1_e	Number of operations possible at rated current	E	ABBIED600:2014
NumOpAlmLev	ABBIED600_Rev1_ING_SP_1_e	Alarm level for CB remaining life	E	ABBIED600:2014
OpNumFlt	ABBIED600_Rev1_ING_SP_1_e	Number of operations possible at rated fault current	E	ABBIED600:2014
CntIniVal	ABBIED600_Rev1_ING_SP_1_e	The operation numbers counter initialization value	E	ABBIED600:2014

InaAlmTmd	ABBIED600_Rev1_ING_SP_1_e	Alarm limit value of the inactive days counter	E	ABBIED600:2014
IniInaTmd	ABBIED600_Rev1_ING_SP_1_e	Initial value of the inactive days counter	E	ABBIED600:2014
InaAlmTmh	ABBIED600_Rev1_ING_SP_1_e	Alarm time of the inactive days counter in hours	E	ABBIED600:2014
InaTmdCnt	ABBIED600_Rev1_INS_e	The number of days CB has been inactive	E	ABBIED600:2014
RsAccmAPwr	ABBIED600_Rev2_SPC_control_e	Reset accumulation energy	E	ABBIED600:2014,status-only,direct-with-normal-security
RsCBWear	ABBIED600_Rev2_SPC_control_e	Reset input for CB remaining life and operation counter	E	ABBIED600:2014,status-only,direct-with-normal-security
RsTrvTm	ABBIED600_Rev2_SPC_control_e	SSCBR3 travel t	E	ABBIED600:2014,status-only,direct-with-normal-security
TestSpvn	ABBIED600_Rev1_ENC_TestSpvn_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
TrvClcMod	ABBIED600_Rev2_ENG_SP_TrvClcMod_e	Travel time calculation mode	E	ABBIED600:2014
DirCff	ABBIED600_Rev1_ASG_SP_f_e	Directional coefficient for CB life calculation	E	ABBIED600:2014
IniRmnNumOp	ABBIED600_Rev1_ASG_SP_f_e	Initial value for the CB remaining life estimates	E	ABBIED600:2014
AlmAccmAPwr	ABBIED600_Rev3_ASG_SP_i_e	Setting of alarm level for accumulated currents power, Iyt	E	ABBIED600:2014
AccmStopA	ABBIED600_Rev3_ASG_SP_i_e	Setting of the RMS current below which engy acm stops	E	ABBIED600:2014
LOAccmAPwr	ABBIED600_Rev3_ASG_SP_i_e	Setting of lockout level for accumulated currents power, Iyt	E	ABBIED600:2014
AExpn	ABBIED600_Rev1_ASG_SP_f_e	Current exponent setting for energy calculation	E	ABBIED600:2014
AOpRtg	ABBIED600_Rev3_ASG_SP_i_e	Rated operating current of the breaker	E	ABBIED600:2014
AFltRtg	ABBIED600_Rev3_ASG_SP_i_e	Rated fault current of the breaker	E	ABBIED600:2014
IniAccmAPwr	ABBIED600_Rev3_ASG_SP_i_e	Initial value for accumulation energy (Iyt)	E	ABBIED600:2014

6.2.218 LN: SPH1SCBR3 Name: SCBR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

Mod	AB-BIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		
RmnNumOp	ABBIED600_Rev1_INS_d_e	CB Remaining life phase A	E	AB-BIED600:2014
AccmAPwr	ABBIED600_Rev3_MV_sim-ple_i_e	Accumulated currents power (Iyt), phase A	E	AB-BIED600:2014

6.2.219 LN: SPH2SCBR3 Name: SCBR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		
RmnNumOp	ABBIED600_Rev1_INS_d_e	CB Remaining life phase B	E	AB-BIED600:2014
AccmAPwr	ABBIED600_Rev3_MV_sim-ple_i_e	Accumulated currents power (Iyt), phase B	E	AB-BIED600:2014

6.2.220 LN: SPH3SCBR3 Name: SCBR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		
RmnNumOp	ABBIED600_Rev1_INS_d_e	CB Remaining life phase C	E	AB-BIED600:2014
AccmAPwr	ABBIED600_Rev3_MV_sim-ple_i_e	Accumulated currents power (Iyt), phase C	E	AB-BIED600:2014

6.2.221 LN: SSIMG3 Name: SIMG (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
InsAlm	ABBIED600_Rev1_SPS	Pressure below alarm level		
InsBlk	ABBIED600_Rev1_SPS	Pressure below lockout level		
PresAlm	ABBIED600_Rev1_SPS	Binary pressure input for alarm		
PresBlk	ABBIED600_Rev1_SPS_e	Binary pressure input for lockout indication	E	AB-BIED600:2014
InsAlmTmms	ABBIED600_Rev1_ING_SP_1_e	Time delay for gas pressure alarm.	E	AB-BIED600:2014

InsBlkTmms	ABBIED600_Rev1_ING_SP_e	Time delay for gas pressure lock-out.	E	AB-BIED600:2014

6.2.222 LN: SSOPM3 Name: SOPM (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
SprChaAlm	ABBIED600_Rev1_SPS_e	Spring charging time has crossed the set value	E	ABBIED600:2014
SprChaStr	ABBIED600_Rev1_SPS_e	CB spring charging started input	E	ABBIED600:2014
SprChaStop	ABBIED600_Rev1_SPS_e	CB spring charged input	E	ABBIED600:2014
SprChaTmms	ABBIED600_Rev1_ING_SP_e	Setting of alarm for spring charging time of CB in ms.	E	ABBIED600:2014
TmsSprCha	ABBIED600_Rev3_MV_simple_i_e	The charging time of the CB spring	E	ABBIED600:2014
RsSprChaTm	ABBIED600_Rev2_SPC_control_e	SSCBR3 spr.charge t	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.223 LN: TCSSCBR3 Name: SCBR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
OpDlTmms	ABBIED600_Rev1_ING_SP_1_e	Operate Delay Time	E	IEC 61850-7-4:2007
RsDlTmms	ABBIED600_Rev1_ING_SP_1_e	Reset Delay Time	E	IEC 61850-7-4:2007
CircAlm	ABBIED600_Rev1_SPS_e	Alarm	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		

6.2.224 LN: TRPPTRC3 Name: PTRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security

Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
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	ABBIED600:2014
LORs	ABBIED600_Rev2_SPC_indications_e	RST_LKOUT	E	ABBIED600:2014,status-only,direct-with-normal-security
TrRs	ABBIED600_Rev2_SPC_indications_e	Reset latched trip	E	ABBIED600:2014,status-only,direct-with-normal-security
ClsLO	ABBIED600_Rev1_SPS_e	Circuit breaker lockout output (set until reset)	E	ABBIED600:2014

6.2.225 LN: SCEFRFLO1 Name: RFLO (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
FltZ	ABBIED600_Rev3_CMV_S_1	Fault loop impedance		
FltDiskm	ABBIED600_Rev3_MV_simple_i	Fault distance		
FltLoop	ABBIED600_Rev4_ENS_FltLoop	Fault loop		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	IEC 61850-7-4:2007
TrgSt	ABBIED600_Rev1_SPS_e	Signal indicating function triggering	E	ABBIED600:2014
FltPtR	ABBIED600_Rev3_MV_simple_i_e	Fault point resistance	E	ABBIED600:2014
FltR	ABBIED600_Rev3_MV_simple_i_e	Fault loop resistance	E	ABBIED600:2014
FltX	ABBIED600_Rev3_MV_simple_i_e	Fault loop reactance	E	ABBIED600:2014
PhReact	ABBIED600_Rev3_MV_simple_i_e	Fault phase reactance	E	ABBIED600:2014
RatFltALod	ABBIED600_Rev3_MV_simple_i_e	Fault to load current ratio	E	ABBIED600:2014
EqDisLod	ABBIED600_Rev3_MV_simple_i_e	Estimated equivalent load distance	E	ABBIED600:2014

PhGndCapac	ABBIED600_Rev3_MV_simple_i_e	Estimated PE capacitive reactance of the line	E	ABBIED600:2014
Trg	ABBIED600_Rev2_SPC_control_e	Triggering signal for distance calculation	E	ABBIED600:2014,status-only,direct-with-normal-security
TrgXC0F	ABBIED600_Rev2_SPC_control_e	Triggering signal for XC0F calculation	E	ABBIED600:2014,status-only,direct-with-normal-security
RecRs	ABBIED600_Rev2_SPC_control_e	Recorded data reset	E	ABBIED600:2014,status-only,direct-with-normal-security
FltDisQ	ABBIED600_Rev1_INS_e	Fault distance quality	E	ABBIED600:2014
ZMaxLod	ABBIED600_Rev3_ASG_SG_i_e	Maximum load impedance	E	ABBIED600:2014
PhLeakRis	ABBIED600_Rev3_ASG_SG_i_e	Line PE leakage resistance	E	ABBIED600:2014
PhLinCapac	ABBIED600_Rev3_ASG_SG_i_e	Line PE capacitive reactance	E	ABBIED600:2014
EqLodDis	ABBIED600_Rev3_ASG_SG_i_e	Equivalent load distance	E	ABBIED600:2014
TrgMod	ABBIED600_Rev1_ENG_SP_TrgMod_e	Trigger mode for distance calculation	E	IEC 61850-7-4:2007
HiLimSpt	ABBIED600_Rev3_ASG_SG_i_e	High alarm limit	E	IEC 61850-7-4:2007
LoLimSpt	ABBIED600_Rev3_ASG_SG_i_e	Low alarm limit	E	IEC 61850-7-4:2007
EFAlgSel	ABBIED600_Rev2_ENG_SP_EFAlg_e	PE-loop calculation algorithm	E	ABBIED600:2014
EFAlgASel	ABBIED600_Rev2_ENG_SP_EFAlgASel_e	Earth fault current model	E	ABBIED600:2014
EnaLodComp	ABBIED600_Rev1_SPG_SP_e	Enable load compensation	E	ABBIED600:2014
SimpMod	ABBIED600_Rev1_SPG_SP_e	Enable simple model	E	ABBIED600:2014
TestProRl	ABBIED600_Rev4_ENC_TestProRl_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
DisEstVa	ABBIED600_Rev3_ASG_SP_i_e	Allowed variation of short circuit distance estimate	E	ABBIED600:2014
PhVMeas	ABBIED600_Rev2_ENG_SP_PhVMeas_e	Phase voltage measurement principle	E	ABBIED600:2014

6.2.226 LN: H3EFPTRC1 Name: PTRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security

Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		
Op	ABBIED600_Rev1_ACT_simple	Operate		
Str	ABBIED600_Rev1_ACD_simple	Start		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.227 LN: H3EFPTOV1 Name: PTOV (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate delay time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset delay time		
BlkVal	ABBIED600_Rev3_ASG_SP_i	Low level blocking for 3rd harmonic differential protection		
Beta	ABBIED600_Rev3_ASG_SG_i_e	Portion of neutral side 3rd harmonic used as bias	E	ABBIED600:2014
TermVSel	ABBIED600_Rev3_ENG_SG_TermVSel_e	Type of voltage connection available at generator terminal	E	ABBIED600:2014
CBOpnFact	ABBIED600_Rev3_ASG_SG_i_e	Multiplication factor for beta when CB is in open condition	E	ABBIED600:2014
GnCBUsed	ABBIED600_Rev1_SPG_SP_e	Defines if generator circuit breaker exists	E	ABBIED600:2014
BlkInSt	ABBIED600_Rev1_ACT_simple_e	Protection internally blocked	E	ABBIED600:2014
Dif3HV	ABBIED600_Rev3_MV_simple_i_e	3rd harmonic differential voltage amplitude	E	ABBIED600:2014
Bias3HV	ABBIED600_Rev3_MV_simple_i_e	3rd harmonic bias voltage amplitude	E	ABBIED600:2014
Term3HV	ABBIED600_Rev3_MV_simple_i_e	Terminal side 3rd harmonic voltage amplitude	E	ABBIED600:2014
Neut3HV	ABBIED600_Rev3_MV_simple_i_e	Neutral side 3rd harmonic voltage amplitude	E	ABBIED600:2014
Ang3HVTerN	ABBIED600_Rev3_MV_simple_i_e	3rd Harm voltage angle between terminal and neutral	E	ABBIED600:2014
StrDur	ABBIED600_Rev3_MV_simple_i_e	Ratio of start time / operate time	E	ABBIED600:2014
InGnCBPos	ABBIED600_Rev1_SPS_e	Generator CB position	E	ABBIED600:2014

6.2.228 LN: H3EFPTUV1 Name: PTUV (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG	Operate delay time		
RsDlTmms	ABBIED600_Rev1_ING_SP_1	Reset delay time		
TermVSel	ABBIED600_Rev3_ENG_SG_Term-VSel_e	Type of voltage connection available at generator terminal	E	AB-BIED600:2014
Neut3HV	ABBIED600_Rev3_MV_simple_i_e	Neutral side 3rd harmonic voltage amplitude	E	AB-BIED600:2014

6.2.229 LN: IL1TCTR3 Name: TCTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Mode		
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	Alarm		
Wrn	ABBIED600_Rev1_SPS	Warning		
ARtgScy	ABBIED600_Rev2_ENG_SP_ARt-gSec_e	Secondary current	E	AB-BIED600:2014
ARtgNom	ABBIED600_Rev1_ASG_SP_f_e	Network Nominal Current	E	AB-BIED600:2014
VRtgScy-Rat	ABBIED600_Rev1_ASG_SP_f_e	Rated Secondary Value	E	AB-BIED600:2014
RevPol	ABBIED600_Rev1_SPG_SP_e	Reverse polarity	E	AB-BIED600:2014

6.2.230 LN: RESTVTR1 Name: TVTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Mode		
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	Alarm		
Wrn	ABBIED600_Rev1_SPS	Warning		
VRtgScy	ABBIED600_Rev1_ASG_SP_f_e	Rated secondary voltage	E	AB-BIED600:2014

6.2.231 LN: UL1TVTR1 Name: TVTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Mode		
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	Alarm		
Wrn	ABBIED600_Rev1_SPS	Warning		
VRtgScy	ABBIED600_Rev1_ASG_SP_f_e	Secondary rated voltage	E	AB-BIED600:2014
VConnTyp	AB-BIED600_Rev3_ENG_SP_ConnType_e	VT connection	E	AB-BIED600:2014
VInTyp	ABBIED600_Rev2_ENG_SP_AnInType_e	Type of the voltage input	E	AB-BIED600:2014

6.2.232 LN: CMMXU3 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OfFOn_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
A	AB-BIED600_Rev3_WYE_threephase_full_i	Phase currents		
AMeasMod	ABBIED600_Rev2_ENG_SP_MeasMod_e	Selects used measurement mode	E	ABBIED600:2014

NumPh	AB-BIED600_Rev2_ENG_SP_StrPhSel_e	Number of phases required by limit supervision	E	ABBIED600:2014
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	ABBIED600:2014
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	ABBIED600:2014
LoWrn	ABBIED600_Rev1_SPS_e	Low warning	E	ABBIED600:2014
LoAlm	ABBIED600_Rev1_SPS_e	Low alarm	E	ABBIED600:2014
RcdRs	ABBIED600_Rev2_SPC_control_e	CMMXU3 demands	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.233 LN: XAGGIO115 Name: GGIO (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_OnOff_NoBlk	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
CardNam	AB-BIED600_Rev7_DPL_eeprom_2_ED2_e	Card information	E	ABBIED600:2014
HwId	ABBIED600_Rev1_LPL_VSS_1_20_e	HW module	E	ABBIED600:2014
TestStaId	ABBIED600_Rev1_LPL_VSS_dU_20_e	Testing	E	ABBIED600:2014

6.2.234 LN: IL1TCTR1 Name: TCTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Mode		
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	Alarm		
Wrn	ABBIED600_Rev1_SPS	Warning		
ARtgScy	ABBIED600_Rev2_ENG_SP_ARtgSec_e	Secondary rated current	E	AB-BIED600:2014
ARtgNom	ABBIED600_Rev1_ASG_SP_f_e	Network Nominal Current	E	AB-BIED600:2014
VRtgScyRat	ABBIED600_Rev1_ASG_SP_f_e	Rated Secondary Value	E	AB-BIED600:2014
RevPol	ABBIED600_Rev1_SPG_SP_e	Reverse polarity	E	AB-BIED600:2014

6.2.235 LN: RESTCTR1 Name: TCTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Mode		
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	Alarm		
Wrn	ABBIED600_Rev1_SPS	Warning		
ARtgScy	ABBIED600_Rev2_ENG_SP_ARtgSec_e	Secondary rated current	E	AB-BIED600:2014
RevPol	ABBIED600_Rev1_SPG_SP_e	Reverse polarity	E	AB-BIED600:2014

6.2.236 LN: XGGIO120 Name: GGIO (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_OnOff_NoBlk	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Ind1	ABBIED600_Rev1_SPS	X120-Input 1		
Ind2	ABBIED600_Rev1_SPS	X120-Input 2		
Ind3	ABBIED600_Rev1_SPS	X120-Input 3		
Ind4	ABBIED600_Rev1_SPS	X120-Input 4		
FilTmms1	ABBIED600_Rev1_ING_SP_1_e	Input 1 filter time	E	ABBIED600:2014
FilTmms2	ABBIED600_Rev1_ING_SP_1_e	Input 2 filter time	E	ABBIED600:2014
FilTmms3	ABBIED600_Rev1_ING_SP_1_e	Input 3 filter time	E	ABBIED600:2014
FilTmms4	ABBIED600_Rev1_ING_SP_1_e	Input 4 filter time	E	ABBIED600:2014
DiInInv1	ABBIED600_Rev1_SPG_SP_e	Input 1 inversion	E	ABBIED600:2014
DiInInv2	ABBIED600_Rev1_SPG_SP_e	Input 2 inversion	E	ABBIED600:2014
DiInInv3	ABBIED600_Rev1_SPG_SP_e	Input 3 inversion	E	ABBIED600:2014
DiInInv4	ABBIED600_Rev1_SPG_SP_e	Input 4 inversion	E	ABBIED600:2014

CardNam	AB-BIED600_Rev7_DPL_eeprom_2_ED2_e	Card information	E	ABBIED600:2014
HwId	ABBIED600_Rev1_LPL_VSS_1_20_e	HW module	E	ABBIED600:2014
TestStaId	ABBIED600_Rev1_LPL_VSS_1_20_e	Testing	E	ABBIED600:2014

6.2.237 LN: XARGGIO130 Name: GGIO (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
AnIn1	ABBIED600_Rev6_MV_6	Analogue input 1		
AnIn2	ABBIED600_Rev6_MV_6	Analogue input 2		
AnIn3	ABBIED600_Rev6_MV_6	Analogue input 3		
Alm1	ABBIED600_Rev1_SPS	Alarm		
Wrn1	ABBIED600_Rev1_SPS	Warning		
InMinVal1	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	ABBIED600:2014
InMinVal2	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	ABBIED600:2014
InMinVal3	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	ABBIED600:2014
InMaxVal1	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	ABBIED600:2014
InMaxVal2	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	ABBIED600:2014
InMaxVal3	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	ABBIED600:2014
InMod1	ABBIED600_Rev2_ENG_SP_SenInMod_e	Input mode	E	ABBIED600:2014
InMod2	ABBIED600_Rev2_ENG_SP_SenInMod_e	Input mode	E	ABBIED600:2014
InMod3	ABBIED600_Rev2_ENG_SP_SenInMod_e	Input mode	E	ABBIED600:2014
CardNam	AB-BIED600_Rev7_DPL_eeprom_2_ED2_e	Card information	E	ABBIED600:2014
HwId	ABBIED600_Rev1_LPL_VSS_1_20_e	HW module	E	ABBIED600:2014
TestStaId	ABBIED600_Rev1_LPL_VSS_dU_20_e	Testing	E	ABBIED600:2014

6.2.238 LN: XAGGIO120 Name: GGIO (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_OnOff_NoBlk	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		

NamPlt	ABBIED600_Rev1_LPL_1	Name plate		
CardNam	AB-BIED600_Rev7_DPL_eeprom_2_ED2_e	Card information	E	ABBIED600:2014
HwId	ABBIED600_Rev1_LPL_VSS_1_20_e	HW module	E	ABBIED600:2014
TestStaId	ABBIED600_Rev1_LPL_VSS_dU_20_e	Testing	E	ABBIED600:2014

6.2.239 LN: IL1TCTR2 Name: TCTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Mode		
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	Alarm		
Wrn	ABBIED600_Rev1_SPS	Warning		
ARtgScy	ABBIED600_Rev2_ENG_SP_ARtgSec_e	Secondary current	E	AB-BIED600:2014
ARtgNom	ABBIED600_Rev1_ASG_SP_f_e	Network Nominal Current	E	AB-BIED600:2014
VRtgScyRat	ABBIED600_Rev1_ASG_SP_f_e	Rated Secondary Value	E	AB-BIED600:2014
RevPol	ABBIED600_Rev1_SPG_SP_e	Reverse polarity	E	AB-BIED600:2014

6.2.240 LN: RESTCTR2 Name: TCTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Mode		
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	Alarm		
Wrn	ABBIED600_Rev1_SPS	Warning		

ARtgScy	ABBIED600_Rev2_ENG_SP_ARt-gSec_e	Secondary rated current	E	AB-BIED600:2014
RevPol	ABBIED600_Rev1_SPG_SP_e	Reverse polarity	E	AB-BIED600:2014

6.2.241 LN: UL1TVTR2 Name: TVTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Mode		
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		
Cor	ABBIED600_Rev1_ASG_SP_f	Phase A Voltage phasor mag-nitude correction of an external voltage transformer		
AngCor	ABBIED600_Rev3_ASG_SP_i	Angle corr. A		
Alm	ABBIED600_Rev1_SPS	Alarm		
Wrn	ABBIED600_Rev1_SPS	Warning		
VRtgScy	ABBIED600_Rev1_ASG_SP_f_e	Secondary rated voltage	E	AB-BIED600:2014
VConnTyp	AB-BIED600_Rev3_ENG_SP_ConnType_e	VT connection	E	AB-BIED600:2014
VInTyp	ABBIED600_Rev2_ENG_SP_AnIn-Type_e	Type of the voltage input	E	AB-BIED600:2014

6.2.242 LN: UL1TVTR3 Name: TVTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Mode		
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		
Cor	ABBIED600_Rev1_ASG_SP_f	Phase A Voltage phasor mag-nitude correction of an external voltage transformer		
AngCor	ABBIED600_Rev3_ASG_SP_i	Angle corr. A		
Alm	ABBIED600_Rev1_SPS	Alarm		
Wrn	ABBIED600_Rev1_SPS	Warning		

VRtgScy	ABBIED600_Rev1_ASG_SP_f_e	Secondary rated voltage	E	AB-BIED600:2014
VConnTyp	AB-BIED600_Rev3_ENG_SP_ConnType_e	VT connection	E	AB-BIED600:2014
VInTyp	ABBIED600_Rev2_ENG_SP_AnIn-Type_e	Type of the voltage input	E	AB-BIED600:2014

6.2.243 LN: RESCMMXU2 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_Of-fOn_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
A	ABBIED600_Rev3_WYE_res_full_i	Residual current		
AMeas-Mod	ABBIED600_Rev2_ENG_SP_Meas-Mod_e	Selects used meas-urement mode	E	ABBIED600:2014
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	ABBIED600:2014
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	ABBIED600:2014
RcdRs	ABBIED600_Rev2_SPC_control_e	RESCMMXU2 de-mands	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.244 LN: XAGGIO130 Name: GGIO (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_OnOff_No-Blk	Mode		status-only,direct-with-nor-mal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Ind1	ABBIED600_Rev1_SPS	X130-Input 1		
Ind2	ABBIED600_Rev1_SPS	X130-Input 2		
Ind3	ABBIED600_Rev1_SPS	X130-Input 3		
Ind4	ABBIED600_Rev1_SPS	X130-Input 4		
FilTmms1	ABBIED600_Rev1_ING_SP_1_e	Input 1 filter time	E	ABBIED600:2014
FilTmms2	ABBIED600_Rev1_ING_SP_1_e	Input 2 filter time	E	ABBIED600:2014
FilTmms3	ABBIED600_Rev1_ING_SP_1_e	Input 3 filter time	E	ABBIED600:2014
FilTmms4	ABBIED600_Rev1_ING_SP_1_e	Input 4 filter time	E	ABBIED600:2014
DigInInv1	ABBIED600_Rev1_SPG_SP_e	Input 1 inver-sion	E	ABBIED600:2014
DigInInv2	ABBIED600_Rev1_SPG_SP_e	Input 2 inver-sion	E	ABBIED600:2014
DigInInv3	ABBIED600_Rev1_SPG_SP_e	Input 3 inver-sion	E	ABBIED600:2014

DigInInv4	ABBIED600_Rev1_SPG_SP_e	Input 4 inversion	E	ABBIED600:2014
CardNam	ABBIED600_Rev7_DPL_eeprom_2_ED2_e	Card information	E	ABBIED600:2014
HwId	ABBIED600_Rev1_LPL_VSS_1_20_e	HW module	E	ABBIED600:2014
TestStaId	ABBIED600_Rev1_LPL_VSS_dU_20_e	Testing	E	ABBIED600:2014

6.2.245 LN: XRGGIO130 Name: GGIO (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		
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		
InMinVal1	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	ABBIED600:2014
InMinVal2	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	ABBIED600:2014
InMinVal3	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	ABBIED600:2014
InMinVal4	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	ABBIED600:2014
InMinVal5	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	ABBIED600:2014
InMinVal6	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	ABBIED600:2014
InMinVal7	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	ABBIED600:2014
InMinVal8	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	ABBIED600:2014

InMaxVal1	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	ABBIED600:2014
InMaxVal2	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	ABBIED600:2014
InMaxVal3	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	ABBIED600:2014
InMaxVal4	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	ABBIED600:2014
InMaxVal5	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	ABBIED600:2014
InMaxVal6	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	ABBIED600:2014
InMaxVal7	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	ABBIED600:2014
InMaxVal8	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	ABBIED600:2014
InMod1	ABBIED600_Rev2_ENG_SP_SenInMod_e	Input mode	E	ABBIED600:2014
InMod2	ABBIED600_Rev2_ENG_SP_SenInMod_e	Input mode	E	ABBIED600:2014
InMod3	ABBIED600_Rev2_ENG_SP_SenInMod_e	Input mode	E	ABBIED600:2014
InMod4	ABBIED600_Rev2_ENG_SP_SenInMod_e	Input mode	E	ABBIED600:2014
InMod5	ABBIED600_Rev2_ENG_SP_SenInMod_e	Input mode	E	ABBIED600:2014
InMod6	ABBIED600_Rev2_ENG_SP_SenInMod_e	Input mode	E	ABBIED600:2014
InMod7	ABBIED600_Rev2_ENG_SP_SenInMod_e	Input mode	E	ABBIED600:2014
InMod8	ABBIED600_Rev2_ENG_SP_SenInMod_e	Input mode	E	ABBIED600:2014
CardNam	ABBIED600_Rev7_DPL_eeprom_2_ED2_e	Card information	E	ABBIED600:2014
HwId	ABBIED600_Rev1_LPL_VSS_1_20_e	HW module	E	ABBIED600:2014
TestStaId	ABBIED600_Rev1_LPL_VSS_dU_20_e	Testing	E	ABBIED600:2014

6.2.246 LN: MAPGAPC2 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG_e	Operate delay time	E	IEC 61850-7-4:2007
RsDlTmms	ABBIED600_Rev1_ING_SP_e	Reset delay time	E	IEC 61850-7-4:2007
AnIn	ABBIED600_Rev3_MV_2_e	Analogue input	E	IEC 61850-7-4:2007
OpModCom	ABBIED600_Rev2_ENG_SP_OpModComp_e	Operation mode	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
HysAbs	ABBIED600_Rev3_ASG_SP_i_e	Absolute hysteresis for operation	E	ABBIED600:2014
StrValAdd	ABBIED600_Rev3_ASG_SG_i_e	Start value Add	E	ABBIED600:2014
InEnaAdd	ABBIED600_Rev1_SPS_e	Enable start with added start value	E	ABBIED600:2014

6.2.247 LN: MAPGAPC3 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG_e	Operate delay time	E	IEC 61850-7-4:2007
RsDlTmms	ABBIED600_Rev1_ING_SP_e	Reset delay time	E	IEC 61850-7-4:2007
AnIn	ABBIED600_Rev3_MV_2_e	Analogue input	E	IEC 61850-7-4:2007
OpModCom	ABBIED600_Rev2_ENG_SP_OpModComp_e	Operation mode	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
HysAbs	ABBIED600_Rev3_ASG_SP_i_e	Absolute hysteresis for operation	E	ABBIED600:2014
StrValAdd	ABBIED600_Rev3_ASG_SG_i_e	Start value Add	E	ABBIED600:2014

InEnaAdd	ABBIED600_Rev1_SPS_e	Enable start with added start value	E	ABBIED600:2014

6.2.248 LN: MAPGAPC4 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG_e	Operate delay time	E	IEC 61850-7-4:2007
RsDlTmms	ABBIED600_Rev1_ING_SP_e	Reset delay time	E	IEC 61850-7-4:2007
AnIn	ABBIED600_Rev3_MV_2_e	Analogue input	E	IEC 61850-7-4:2007
OpModCom	ABBIED600_Rev2_ENG_SP_OpModComp_e	Operation mode	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
HysAbs	ABBIED600_Rev3_ASG_SP_i_e	Absolute hysteresis for operation	E	ABBIED600:2014
StrValAdd	ABBIED600_Rev3_ASG_SG_i_e	Start value Add	E	ABBIED600:2014
InEnaAdd	ABBIED600_Rev1_SPS_e	Enable start with added start value	E	ABBIED600:2014

6.2.249 LN: MAPGAPC5 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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	Start value		

OpDlTmms	ABBIED600_Rev1_ING_SG_e	Operate delay time	E	IEC 61850-7-4:2007
RsDlTmms	ABBIED600_Rev1_ING_SP_e	Reset delay time	E	IEC 61850-7-4:2007
AnIn	ABBIED600_Rev3_MV_2_e	Analogue input	E	IEC 61850-7-4:2007
OpModCom	ABBIED600_Rev2_ENG_SP_OpModComp_e	Operation mode	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
HysAbs	ABBIED600_Rev3_ASG_SP_i_e	Absolute hysteresis for operation	E	ABBIED600:2014
StrValAdd	ABBIED600_Rev3_ASG_SG_i_e	Start value Add	E	ABBIED600:2014
InEnaAdd	ABBIED600_Rev1_SPS_e	Enable start with added start value	E	ABBIED600:2014

6.2.250 LN: MAPGAPC6 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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	Start value		
OpDlTmms	ABBIED600_Rev1_ING_SG_e	Operate delay time	E	IEC 61850-7-4:2007
RsDlTmms	ABBIED600_Rev1_ING_SP_e	Reset delay time	E	IEC 61850-7-4:2007
AnIn	ABBIED600_Rev3_MV_2_e	Analogue input	E	IEC 61850-7-4:2007
OpModCom	ABBIED600_Rev2_ENG_SP_OpModComp_e	Operation mode	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
HysAbs	ABBIED600_Rev3_ASG_SP_i_e	Absolute hysteresis for operation	E	ABBIED600:2014
StrValAdd	ABBIED600_Rev3_ASG_SG_i_e	Start value Add	E	ABBIED600:2014

InEnaAdd	ABBIED600_Rev1_SPS_e	Enable start with added start value	E	ABBIED600:2014

6.2.251 LN: XBRGGIO130 Name: GGIO (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		
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	ABBIED600:2014
InMinVal2	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	ABBIED600:2014
InMinVal3	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	ABBIED600:2014
InMaxVal1	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	ABBIED600:2014
InMaxVal2	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	ABBIED600:2014
InMaxVal3	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	ABBIED600:2014
InMod1	ABBIED600_Rev2_ENG_SP_SenInMod_e	Input mode	E	ABBIED600:2014
InMod2	ABBIED600_Rev2_ENG_SP_SenInMod_e	Input mode	E	ABBIED600:2014
InMod3	ABBIED600_Rev2_ENG_SP_SenInMod_e	Input mode	E	ABBIED600:2014
CardNam	ABBIED600_Rev7_DPL_eeprom_2_ED2_e	Card information	E	ABBIED600:2014
HwId	ABBIED600_Rev1_LPL_VSS_1_20_e	HW module	E	ABBIED600:2014
TestStaId	ABBIED600_Rev1_LPL_VSS_dU_20_e	Testing	E	ABBIED600:2014

6.2.252 LN: XRGGIO105 Name: GGIO (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		
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		
InMinVal1	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	ABBIED600:2014
InMinVal2	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	ABBIED600:2014
InMinVal3	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	ABBIED600:2014
InMinVal4	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	ABBIED600:2014
InMinVal5	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	ABBIED600:2014
InMinVal6	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	ABBIED600:2014
InMinVal7	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	ABBIED600:2014
InMinVal8	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	ABBIED600:2014
InMaxVal1	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	ABBIED600:2014
InMaxVal2	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	ABBIED600:2014
InMaxVal3	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	ABBIED600:2014

InMaxVal4	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	ABBIED600:2014
InMaxVal5	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	ABBIED600:2014
InMaxVal6	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	ABBIED600:2014
InMaxVal7	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	ABBIED600:2014
InMaxVal8	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	ABBIED600:2014
InMod1	ABBIED600_Rev2_ENG_SP_SenInMod_e	Input mode	E	ABBIED600:2014
InMod2	ABBIED600_Rev2_ENG_SP_SenInMod_e	Input mode	E	ABBIED600:2014
InMod3	ABBIED600_Rev2_ENG_SP_SenInMod_e	Input mode	E	ABBIED600:2014
InMod4	ABBIED600_Rev2_ENG_SP_SenInMod_e	Input mode	E	ABBIED600:2014
InMod5	ABBIED600_Rev2_ENG_SP_SenInMod_e	Input mode	E	ABBIED600:2014
InMod6	ABBIED600_Rev2_ENG_SP_SenInMod_e	Input mode	E	ABBIED600:2014
InMod7	ABBIED600_Rev2_ENG_SP_SenInMod_e	Input mode	E	ABBIED600:2014
InMod8	ABBIED600_Rev2_ENG_SP_SenInMod_e	Input mode	E	ABBIED600:2014
CardNam	ABBIED600_Rev7_DPL_eeprom_2_ED2_e	Card information	E	ABBIED600:2014
HwId	ABBIED600_Rev1_LPL_VSS_1_20_e	HW module	E	ABBIED600:2014
TestStaId	ABBIED600_Rev1_LPL_VSS_dU_20_e	Testing	E	ABBIED600:2014

6.2.253 LN: XRGGIO110 Name: GGIO (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		
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		
InMinVal1	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	ABBIED600:2014
InMinVal2	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	ABBIED600:2014
InMinVal3	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	ABBIED600:2014
InMinVal4	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	ABBIED600:2014
InMinVal5	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	ABBIED600:2014
InMinVal6	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	ABBIED600:2014
InMinVal7	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	ABBIED600:2014
InMinVal8	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	ABBIED600:2014
InMaxVal1	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	ABBIED600:2014
InMaxVal2	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	ABBIED600:2014
InMaxVal3	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	ABBIED600:2014
InMaxVal4	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	ABBIED600:2014
InMaxVal5	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	ABBIED600:2014
InMaxVal6	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	ABBIED600:2014
InMaxVal7	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	ABBIED600:2014
InMaxVal8	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	ABBIED600:2014
InMod1	ABBIED600_Rev2_ENG_SP_SenInMod_e	Input mode	E	ABBIED600:2014
InMod2	ABBIED600_Rev2_ENG_SP_SenInMod_e	Input mode	E	ABBIED600:2014
InMod3	ABBIED600_Rev2_ENG_SP_SenInMod_e	Input mode	E	ABBIED600:2014
InMod4	ABBIED600_Rev2_ENG_SP_SenInMod_e	Input mode	E	ABBIED600:2014

InMod5	ABBIED600_Rev2_ENG_SP_SenIn-Mod_e	Input mode	E	ABBIED600:2014
InMod6	ABBIED600_Rev2_ENG_SP_SenIn-Mod_e	Input mode	E	ABBIED600:2014
InMod7	ABBIED600_Rev2_ENG_SP_SenIn-Mod_e	Input mode	E	ABBIED600:2014
InMod8	ABBIED600_Rev2_ENG_SP_SenIn-Mod_e	Input mode	E	ABBIED600:2014
CardNam	AB-BIED600_Rev7_DPL_eeprom_2_ED2_e	Card infor-mation	E	ABBIED600:2014
HwId	ABBIED600_Rev1_LPL_VSS_1_20_e	HW module	E	ABBIED600:2014
TestStaId	ABBIED600_Rev1_LPL_VSS_dU_20_e	Testing	E	ABBIED600:2014

6.2.254 LN: XSGGIO130 Name: GGIO (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_OnOff_No-Blk	Mode		status-only,direct-with-nor-mal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
CardNam	AB-BIED600_Rev7_DPL_eeprom_2_ED2_e	Card infor-mation	E	ABBIED600:2014
HwId	ABBIED600_Rev1_LPL_VSS_1_20_e	HW module	E	ABBIED600:2014
TestStaId	ABBIED600_Rev1_LPL_VSS_dU_20_e	Testing	E	ABBIED600:2014

6.2.255 LN: XGGIO105 Name: GGIO (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_OnOff_No-Blk	Mode		status-only,direct-with-nor-mal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
SPCSO1	ABBIED600_Rev2_SPC_control	X105-Output 1		status-only,direct-with-nor-mal-security
SPCSO2	ABBIED600_Rev2_SPC_control	X105-Output 2		status-only,direct-with-nor-mal-security
SPCSO3	ABBIED600_Rev2_SPC_control	X105-Output 3		status-only,direct-with-nor-mal-security
SPCSO4	ABBIED600_Rev2_SPC_control	X105-Output 4		status-only,direct-with-nor-mal-security
Ind1	ABBIED600_Rev1_SPS	X105-Input 1		
Ind2	ABBIED600_Rev1_SPS	X105-Input 2		
Ind3	ABBIED600_Rev1_SPS	X105-Input 3		
Ind4	ABBIED600_Rev1_SPS	X105-Input 4		
Ind5	ABBIED600_Rev1_SPS	X105-Input 5		
Ind6	ABBIED600_Rev1_SPS	X105-Input 6		
Ind7	ABBIED600_Rev1_SPS	X105-Input 7		
Ind8	ABBIED600_Rev1_SPS	X105-Input 8		

FilTmms1	ABBIED600_Rev1_ING_SP_1_e	Input 1 filter time	E	ABBIED600:2014
FilTmms2	ABBIED600_Rev1_ING_SP_1_e	Input 2 filter time	E	ABBIED600:2014
FilTmms3	ABBIED600_Rev1_ING_SP_1_e	Input 3 filter time	E	ABBIED600:2014
FilTmms4	ABBIED600_Rev1_ING_SP_1_e	Input 4 filter time	E	ABBIED600:2014
FilTmms5	ABBIED600_Rev1_ING_SP_1_e	Input 5 filter time	E	ABBIED600:2014
FilTmms6	ABBIED600_Rev1_ING_SP_1_e	Input 6 filter time	E	ABBIED600:2014
FilTmms7	ABBIED600_Rev1_ING_SP_1_e	Input 7 filter time	E	ABBIED600:2014
FilTmms8	ABBIED600_Rev1_ING_SP_1_e	Input 8 filter time	E	ABBIED600:2014
DigInInv1	ABBIED600_Rev1_SPG_SP_e	Input 1 inversion	E	ABBIED600:2014
DigInInv2	ABBIED600_Rev1_SPG_SP_e	Input 2 inversion	E	ABBIED600:2014
DigInInv3	ABBIED600_Rev1_SPG_SP_e	Input 3 inversion	E	ABBIED600:2014
DigInInv4	ABBIED600_Rev1_SPG_SP_e	Input 4 inversion	E	ABBIED600:2014
DigInInv5	ABBIED600_Rev1_SPG_SP_e	Input 5 inversion	E	ABBIED600:2014
DigInInv6	ABBIED600_Rev1_SPG_SP_e	Input 6 inversion	E	ABBIED600:2014
DigInInv7	ABBIED600_Rev1_SPG_SP_e	Input 7 inversion	E	ABBIED600:2014
DigInInv8	ABBIED600_Rev1_SPG_SP_e	Input 8 inversion	E	ABBIED600:2014
CardNam	ABBIED600_Rev7_DPL_eeprom_2_ED2_e	Card information	E	ABBIED600:2014
HwId	ABBIED600_Rev1_LPL_VSS_1_20_e	HW module	E	ABBIED600:2014
TestStaId	ABBIED600_Rev1_LPL_VSS_dU_20_e	Testing	E	ABBIED600:2014

6.2.256 LN: XHBGGIO105 Name: GGIO (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_OnOff_NoBlk	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
SPCSO1	ABBIED600_Rev2_SPC_control	X105-Output 1		status-only,direct-with-normal-security
SPCSO2	ABBIED600_Rev2_SPC_control	X105-Output 2		status-only,direct-with-normal-security
SPCSO3	ABBIED600_Rev2_SPC_control	X105-Output 3		status-only,direct-with-normal-security

Ind1	ABBIED600_Rev1_SPS	X105-Input 1		
Ind2	ABBIED600_Rev1_SPS	X105-Input 2		
Ind3	ABBIED600_Rev1_SPS	X105-Input 3		
Ind4	ABBIED600_Rev1_SPS	X105-Input 4		
Ind5	ABBIED600_Rev1_SPS	X105-Input 5		
Ind6	ABBIED600_Rev1_SPS	X105-Input 6		
Ind7	ABBIED600_Rev1_SPS	X105-Input 7		
Ind8	ABBIED600_Rev1_SPS	X105-Input 8		
FilTmms1	ABBIED600_Rev1_ING_SP_1_e	Input 1 filter time	E	ABBIED600:2014
FilTmms2	ABBIED600_Rev1_ING_SP_1_e	Input 2 filter time	E	ABBIED600:2014
FilTmms3	ABBIED600_Rev1_ING_SP_1_e	Input 3 filter time	E	ABBIED600:2014
FilTmms4	ABBIED600_Rev1_ING_SP_1_e	Input 4 filter time	E	ABBIED600:2014
FilTmms5	ABBIED600_Rev1_ING_SP_1_e	Input 5 filter time	E	ABBIED600:2014
FilTmms6	ABBIED600_Rev1_ING_SP_1_e	Input 6 filter time	E	ABBIED600:2014
FilTmms7	ABBIED600_Rev1_ING_SP_1_e	Input 7 filter time	E	ABBIED600:2014
FilTmms8	ABBIED600_Rev1_ING_SP_1_e	Input 8 filter time	E	ABBIED600:2014
DiInInv1	ABBIED600_Rev1_SPG_SP_e	Input 1 inversion	E	ABBIED600:2014
DiInInv2	ABBIED600_Rev1_SPG_SP_e	Input 2 inversion	E	ABBIED600:2014
DiInInv3	ABBIED600_Rev1_SPG_SP_e	Input 3 inversion	E	ABBIED600:2014
DiInInv4	ABBIED600_Rev1_SPG_SP_e	Input 4 inversion	E	ABBIED600:2014
DiInInv5	ABBIED600_Rev1_SPG_SP_e	Input 5 inversion	E	ABBIED600:2014
DiInInv6	ABBIED600_Rev1_SPG_SP_e	Input 6 inversion	E	ABBIED600:2014
DiInInv7	ABBIED600_Rev1_SPG_SP_e	Input 7 inversion	E	ABBIED600:2014
DiInInv8	ABBIED600_Rev1_SPG_SP_e	Input 8 inversion	E	ABBIED600:2014
CardNam	ABBIED600_Rev7_DPL_eeprom_2_ED2_e	Card information	E	ABBIED600:2014
HwId	ABBIED600_Rev1_LPL_VSS_1_20_e	HW module	E	ABBIED600:2014
TestStaId	ABBIED600_Rev1_LPL_VSS_dU_20_e	Testing	E	ABBIED600:2014

6.2.257 LN: XGGIO110 Name: GGIO (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

Mod	ABBIED600_Rev1_ENC_Mod_OnOff_No-Blk	Mode		status-only,direct-with-nor-mal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
SPCSO1	ABBIED600_Rev2_SPC_control	X110-Output 1		status-only,direct-with-nor-mal-security
SPCSO2	ABBIED600_Rev2_SPC_control	X110-Output 2		status-only,direct-with-nor-mal-security
SPCSO3	ABBIED600_Rev2_SPC_control	X110-Output 3		status-only,direct-with-nor-mal-security
SPCSO4	ABBIED600_Rev2_SPC_control	X110-Output 4		status-only,direct-with-nor-mal-security
Ind1	ABBIED600_Rev1_SPS	X110-Input 1		
Ind2	ABBIED600_Rev1_SPS	X110-Input 2		
Ind3	ABBIED600_Rev1_SPS	X110-Input 3		
Ind4	ABBIED600_Rev1_SPS	X110-Input 4		
Ind5	ABBIED600_Rev1_SPS	X110-Input 5		
Ind6	ABBIED600_Rev1_SPS	X110-Input 6		
Ind7	ABBIED600_Rev1_SPS	X110-Input 7		
Ind8	ABBIED600_Rev1_SPS	X110-Input 8		
FilTmms1	ABBIED600_Rev1_ING_SP_1_e	Input 1 filter time	E	ABBIED600:2014
FilTmms2	ABBIED600_Rev1_ING_SP_1_e	Input 2 filter time	E	REx615:2014
FilTmms3	ABBIED600_Rev1_ING_SP_1_e	Input 3 filter time	E	ABBIED600:2014
FilTmms4	ABBIED600_Rev1_ING_SP_1_e	Input 4 filter time	E	ABBIED600:2014
FilTmms5	ABBIED600_Rev1_ING_SP_1_e	Input 5 filter time	E	ABBIED600:2014
FilTmms6	ABBIED600_Rev1_ING_SP_1_e	Input 6 filter time	E	ABBIED600:2014
FilTmms7	ABBIED600_Rev1_ING_SP_1_e	Input 7 filter time	E	ABBIED600:2014
FilTmms8	ABBIED600_Rev1_ING_SP_1_e	Input 8 filter time	E	ABBIED600:2014
DigInInv1	ABBIED600_Rev1_SPG_SP_e	Input 1 inver-sion	E	ABBIED600:2014
DigInInv2	ABBIED600_Rev1_SPG_SP_e	Input 2 inver-sion	E	ABBIED600:2014
DigInInv3	ABBIED600_Rev1_SPG_SP_e	Input 3 inver-sion	E	ABBIED600:2014
DigInInv4	ABBIED600_Rev1_SPG_SP_e	Input 4 inver-sion	E	ABBIED600:2014
DigInInv5	ABBIED600_Rev1_SPG_SP_e	Input 5 inver-sion	E	ABBIED600:2014
DigInInv6	ABBIED600_Rev1_SPG_SP_e	Input 6 inver-sion	E	ABBIED600:2014

DigInInv7	ABBIED600_Rev1_SPG_SP_e	Input 7 inversion	E	ABBIED600:2014
DigInInv8	ABBIED600_Rev1_SPG_SP_e	Input 8 inversion	E	ABBIED600:2014
CardNam	ABBIED600_Rev7_DPL_eeprom_2_ED2_e	Card information	E	ABBIED600:2014
HwId	ABBIED600_Rev1_LPL_VSS_1_20_e	HW module	E	ABBIED600:2014
TestStaId	ABBIED600_Rev1_LPL_VSS_dU_20_e	Testing	E	ABBIED600:2014

6.2.258 LN: XBGGIO110 Name: GGIO (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_OnOff_NoBlk	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
SPCSO1	ABBIED600_Rev2_SPC_control	X110-Output 1		status-only,direct-with-normal-security
SPCSO2	ABBIED600_Rev2_SPC_control	X110-Output 2		status-only,direct-with-normal-security
SPCSO3	ABBIED600_Rev2_SPC_control	X110-Output 3		status-only,direct-with-normal-security
Ind1	ABBIED600_Rev1_SPS	X110-Input 1		
Ind2	ABBIED600_Rev1_SPS	X110-Input 2		
Ind3	ABBIED600_Rev1_SPS	X110-Input 3		
Ind4	ABBIED600_Rev1_SPS	X110-Input 4		
Ind5	ABBIED600_Rev1_SPS	X110-Input 5		
Ind6	ABBIED600_Rev1_SPS	X110-Input 6		
Ind7	ABBIED600_Rev1_SPS	X110-Input 7		
Ind8	ABBIED600_Rev1_SPS	X110-Input 8		
FilTmms1	ABBIED600_Rev1_ING_SP_1_e	Input 1 filter time	E	ABBIED600:2014
FilTmms2	ABBIED600_Rev1_ING_SP_1_e	Input 2 filter time	E	ABBIED600:2014
FilTmms3	ABBIED600_Rev1_ING_SP_1_e	Input 3 filter time	E	ABBIED600:2014
FilTmms4	ABBIED600_Rev1_ING_SP_1_e	Input 4 filter time	E	ABBIED600:2014
FilTmms5	ABBIED600_Rev1_ING_SP_1_e	Input 5 filter time	E	ABBIED600:2014
FilTmms6	ABBIED600_Rev1_ING_SP_1_e	Input 6 filter time	E	ABBIED600:2014
FilTmms7	ABBIED600_Rev1_ING_SP_1_e	Input 7 filter time	E	ABBIED600:2014
FilTmms8	ABBIED600_Rev1_ING_SP_1_e	Input 8 filter time	E	ABBIED600:2014
DiInInv1	ABBIED600_Rev1_SPG_SP_e	Input 1 inversion	E	ABBIED600:2014

DiInInv2	ABBIED600_Rev1_SPG_SP_e	Input 2 inversion	E	ABBIED600:2014
DiInInv3	ABBIED600_Rev1_SPG_SP_e	Input 3 inversion	E	ABBIED600:2014
DiInInv4	ABBIED600_Rev1_SPG_SP_e	Input 4 inversion	E	ABBIED600:2014
DiInInv5	ABBIED600_Rev1_SPG_SP_e	Input 5 inversion	E	ABBIED600:2014
DiInInv6	ABBIED600_Rev1_SPG_SP_e	Input 6 inversion	E	ABBIED600:2014
DiInInv7	ABBIED600_Rev1_SPG_SP_e	Input 7 inversion	E	ABBIED600:2014
DiInInv8	ABBIED600_Rev1_SPG_SP_e	Input 8 inversion	E	ABBIED600:2014
CardNam	ABBIED600_Rev7_DPL_eeprom_2_ED2_e	Card information	E	ABBIED600:2014
HwId	ABBIED600_Rev1_LPL_VSS_1_20_e	HW module	E	ABBIED600:2014
TestStaId	ABBIED600_Rev1_LPL_VSS_dU_20_e	Testing	E	ABBIED600:2014

6.2.259 LN: TRPPTRC4 Name: PTRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
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	ABBIED600:2014
LORs	ABBIED600_Rev2_SPC_indications_e	RST_LKOUT	E	ABBIED600:2014,status-only,direct-with-normal-security
TrRs	ABBIED600_Rev2_SPC_indications_e	Reset latched trip	E	ABBIED600:2014,status-only,direct-with-normal-security
ClsLO	ABBIED600_Rev1_SPS_e	Circuit breaker lockout output (set until reset)	E	ABBIED600:2014

6.2.260 LN: TRPPTRC5 Name: PTRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
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	ABBIED600:2014
LORs	ABBIED600_Rev2_SPC_indications_e	RST_LKOUT	E	ABBIED600:2014,status-only,direct-with-normal-security
TrRs	ABBIED600_Rev2_SPC_indications_e	Reset latched trip	E	ABBIED600:2014,status-only,direct-with-normal-security
ClsLO	ABBIED600_Rev1_SPS_e	Circuit breaker lockout output (set until reset)	E	ABBIED600:2014

6.2.261 LN: XBGGIO115 Name: GGIO (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_OnOff_NoBlk	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
SPCSO1	ABBIED600_Rev2_SPC_control	X115-Output 1		status-only,direct-with-normal-security
SPCSO2	ABBIED600_Rev2_SPC_control	X115-Output 2		status-only,direct-with-normal-security
SPCSO3	ABBIED600_Rev2_SPC_control	X115-Output 3		status-only,direct-with-normal-security
SPCSO4	ABBIED600_Rev2_SPC_control	X115-Output 4		status-only,direct-with-normal-security
Ind1	ABBIED600_Rev1_SPS	X115-Input 1		
Ind2	ABBIED600_Rev1_SPS	X115-Input 2		
Ind3	ABBIED600_Rev1_SPS	X115-Input 3		
Ind4	ABBIED600_Rev1_SPS	X115-Input 4		
Ind5	ABBIED600_Rev1_SPS	X115-Input 5		
Ind6	ABBIED600_Rev1_SPS	X115-Input 6		
Ind7	ABBIED600_Rev1_SPS	X115-Input 7		
Ind8	ABBIED600_Rev1_SPS	X115-Input 8		
FilTmms1	ABBIED600_Rev1_ING_SP_1_e	Input 1 filter time	E	ABBIED600:2014

FilTmms2	ABBIED600_Rev1_ING_SP_1_e	Input 2 filter time	E	ABBIED600:2014
FilTmms3	ABBIED600_Rev1_ING_SP_1_e	Input 3 filter time	E	ABBIED600:2014
FilTmms4	ABBIED600_Rev1_ING_SP_1_e	Input 4 filter time	E	ABBIED600:2014
FilTmms5	ABBIED600_Rev1_ING_SP_1_e	Input 5 filter time	E	ABBIED600:2014
FilTmms6	ABBIED600_Rev1_ING_SP_1_e	Input 6 filter time	E	ABBIED600:2014
FilTmms7	ABBIED600_Rev1_ING_SP_1_e	Input 7 filter time	E	ABBIED600:2014
FilTmms8	ABBIED600_Rev1_ING_SP_1_e	Input 8 filter time	E	ABBIED600:2014
DigInInv1	ABBIED600_Rev1_SPG_SP_e	Input 1 inversion	E	ABBIED600:2014
DigInInv2	ABBIED600_Rev1_SPG_SP_e	Input 2 inversion	E	ABBIED600:2014
DigInInv3	ABBIED600_Rev1_SPG_SP_e	Input 3 inversion	E	ABBIED600:2014
DigInInv4	ABBIED600_Rev1_SPG_SP_e	Input 4 inversion	E	ABBIED600:2014
DigInInv5	ABBIED600_Rev1_SPG_SP_e	Input 5 inversion	E	ABBIED600:2014
DigInInv6	ABBIED600_Rev1_SPG_SP_e	Input 6 inversion	E	ABBIED600:2014
DigInInv7	ABBIED600_Rev1_SPG_SP_e	Input 7 inversion	E	ABBIED600:2014
DigInInv8	ABBIED600_Rev1_SPG_SP_e	Input 8 inversion	E	ABBIED600:2014
CardNam	ABBIED600_Rev7_DPL_eeprom_2_ED2_e	Card information	E	ABBIED600:2014
HwId	ABBIED600_Rev1_LPL_VSS_1_20_e	HW module	E	ABBIED600:2014
TestStaId	ABBIED600_Rev1_LPL_VSS_dU_20_e	Testing	E	ABBIED600:2014

6.2.262 LN: XGGIO130 Name: GGIO (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_OnOff_NoBlk	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		
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

Ind1	ABBIED600_Rev1_SPS	X130-Input 1		
Ind2	ABBIED600_Rev1_SPS	X130-Input 2		
Ind3	ABBIED600_Rev1_SPS	X130-Input 3		
Ind4	ABBIED600_Rev1_SPS	X130-Input 4		
Ind5	ABBIED600_Rev1_SPS	X130-Input 5		
Ind6	ABBIED600_Rev1_SPS	X130-Input 6		
FilTmms1	ABBIED600_Rev1_ING_SP_1_e	Input 1 filter time	E	ABBIED600:2014
FilTmms2	ABBIED600_Rev1_ING_SP_1_e	Input 2 filter time	E	ABBIED600:2014
FilTmms3	ABBIED600_Rev1_ING_SP_1_e	Input 3 filter time	E	ABBIED600:2014
FilTmms4	ABBIED600_Rev1_ING_SP_1_e	Input 4 filter time	E	ABBIED600:2014
FilTmms5	ABBIED600_Rev1_ING_SP_1_e	Input 5 filter time	E	ABBIED600:2014
FilTmms6	ABBIED600_Rev1_ING_SP_1_e	Input 6 filter time	E	ABBIED600:2014
DiInInv1	ABBIED600_Rev1_SPG_SP_e	Input 1 inversion	E	ABBIED600:2014
DiInInv2	ABBIED600_Rev1_SPG_SP_e	Input 2 inversion	E	ABBIED600:2014
DiInInv3	ABBIED600_Rev1_SPG_SP_e	Input 3 inversion	E	ABBIED600:2014
DiInInv4	ABBIED600_Rev1_SPG_SP_e	Input 4 inversion	E	ABBIED600:2014
DiInInv5	ABBIED600_Rev1_SPG_SP_e	Input 5 inversion	E	ABBIED600:2014
DiInInv6	ABBIED600_Rev1_SPG_SP_e	Input 6 inversion	E	ABBIED600:2014
CardNam	AB-BIED600_Rev7_DPL_eeprom_2_ED2_e	Card information	E	ABBIED600:2014
HwId	ABBIED600_Rev1_LPL_VSS_1_20_e	HW module	E	ABBIED600:2014
TestStaId	ABBIED600_Rev1_LPL_VSS_dU_20_e	Testing	E	ABBIED600:2014

6.2.263 LN: LLN0 Name: LLN0 (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_INC_Mod_On-TestBlockOff	Control		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Control		
NamPlt	ABBIED600_Rev2_LPL_CTRLDR_LNN0	Control		
Loc	ABBIED600_Rev1_SPS_retain	Local / Remote		
LocKey	ABBIED600_Rev1_SPS_simple	Local operation		
LocSta	ABBIED600_Rev1_SPC_retain	Station operation		status-only,direct-with-normal-security

GrRef	ABBIED600_Rev2_ORG_SP_1	GrRef		
MltLev	ABBIED600_Rev1_SPG_SP	Multiple levels		
LocRem	ABBIED600_Rev3_ENS_LocRem_e	Local / Remote state	E	REx615:2014
LocKeyOff	ABBIED600_Rev1_SPS_simple_e	Control disable	E	REx615:2014
LocKeyLoc	ABBIED600_Rev1_SPS_simple_e	Control local	E	REx615:2014
LocKeyRem	ABBIED600_Rev1_SPS_simple_e	Control remote	E	REx615:2014
LocKeySta	ABBIED600_Rev1_SPS_simple_e	Control station	E	REx615:2014
LocKeyAll	ABBIED600_Rev1_SPS_simple_e	Control all	E	REx615:2014
LocRemMod	ABBIED600_Rev1_ENG_SP_LocRemMod_e	Control mode	E	REx615:2014
StaLevSet	ABBIED600_Rev1_ENG_SP_StaAuth_e	Station authority	E	REx615:2014

6.2.264 LN: CBCSWI1 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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		
SelCls	ABBIED600_Rev1_SPS	Selection close switch		
PosDlTmms	ABBIED600_Rev1_ING_SP_1_e	Event delay	E	ABBIED600:2014
PosOpn	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit opn	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit cls	E	ABBIED600:2014
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	ABBIED600:2014
AdpPls	ABBIED600_Rev1_SPG_SP_e	Adaptive pulse	E	ABBIED600:2014
OpnEna	ABBIED600_Rev1_SPS_e	OPEN_ENAD	E	ABBIED600:2014
ClsEna	ABBIED600_Rev1_SPS_e	CLOSE_ENAD	E	ABBIED600:2014
InSynOk	ABBIED600_Rev1_SPS_e	SYNC OK	E	ABBIED600:2014
SynItlByps	ABBIED600_Rev1_SPS_e	SYNC_ITL_BYP	E	ABBIED600:2014

6.2.265 LN: CBXCBR1 Name: XCBR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS	Local operation		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter		
Pos	ABBIED600_Rev4_DPC_simple	Switch position		status-only
BlkOpn	ABBIED600_Rev1_SPC_simple	Block opening		status-only
BlkCls	ABBIED600_Rev1_SPC_simple	Block closing		status-only
CBOpCap	ABBIED600_Rev2_ENS_CBOpCap	Circuit breaker operating capability		

6.2.266 LN: DCSXSWI1 Name: XSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS	Local operation		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter		
Pos	ABBIED600_Rev4_DPC_simple	Switch position		status-only
BlkOpn	ABBIED600_Rev1_SPC_simple	Block opening		status-only
BlkCls	ABBIED600_Rev1_SPC_simple	Block closing		status-only
SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		
SwOpCap	ABBIED600_Rev1_ENS_SwOpCap	Disconnector operating capability		

6.2.267 LN: DCSCSWI1 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Pos	ABBIED600_Rev4_DPC_simple	Switch position		status-only
PosDlTmms	ABBIED600_Rev1_ING_SP_1_e	Event delay	E	ABBIED600:2014
PosOpn	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit opn	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit cls	E	ABBIED600:2014
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	ABBIED600:2014

6.2.268 LN: DCSXSWI2 Name: XSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS	Local operation		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter		
Pos	ABBIED600_Rev4_DPC_simple	Switch position		status-only
BlkOpn	ABBIED600_Rev1_SPC_simple	Block opening		status-only
BlkCls	ABBIED600_Rev1_SPC_simple	Block closing		status-only

SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		
SwOpCap	ABBIED600_Rev1_ENS_SwOpCap	Disconnector operating capability		

6.2.269 LN: DCSCSWI2 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Pos	ABBIED600_Rev4_DPC_simple	Switch position		status-only
PosDlTmms	ABBIED600_Rev1_ING_SP_1_e	Event delay	E	ABBIED600:2014
PosOpn	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit opn	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit cls	E	ABBIED600:2014
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	ABBIED600:2014

6.2.270 LN: DCSXSWI3 Name: XSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS	Local operation		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter		
Pos	ABBIED600_Rev4_DPC_simple	Switch position		status-only
BlkOpn	ABBIED600_Rev1_SPC_simple	Block opening		status-only
BlkCls	ABBIED600_Rev1_SPC_simple	Block closing		status-only
SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		
SwOpCap	ABBIED600_Rev1_ENS_SwOpCap	Disconnector operating capability		

6.2.271 LN: DCSCSWI3 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Pos	ABBIED600_Rev4_DPC_simple	Switch position		status-only
PosDlTmms	ABBIED600_Rev1_ING_SP_1_e	Event delay	E	ABBIED600:2014
PosOpn	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit opn	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit cls	E	ABBIED600:2014
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	ABBIED600:2014

6.2.272 LN: ESSXSWI1 Name: XSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS	Local operation		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter		

Pos	ABBIED600_Rev4_DPC_simple	Switch position		status-only
BlkOpn	ABBIED600_Rev1_SPC_simple	Block opening		status-only
BlkCls	ABBIED600_Rev1_SPC_simple	Block closing		status-only
SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		
SwOpCap	ABBIED600_Rev1_ENS_SwOpCap	Disconnector operating capability		

6.2.273 LN: ESSCSWI1 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Pos	ABBIED600_Rev4_DPC_simple	Switch position		status-only
PosDlTmms	ABBIED600_Rev1_ING_SP_1_e	Event delay	E	ABBIED600:2014
PosOpn	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit opn	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit cls	E	ABBIED600:2014
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	ABBIED600:2014

6.2.274 LN: ESSXSWI2 Name: XSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS	Local operation		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter		
Pos	ABBIED600_Rev4_DPC_simple	Switch position		status-only
BlkOpn	ABBIED600_Rev1_SPC_simple	Block opening		status-only
BlkCls	ABBIED600_Rev1_SPC_simple	Block closing		status-only
SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		
SwOpCap	ABBIED600_Rev1_ENS_SwOpCap	Disconnector operating capability		

6.2.275 LN: ESSCSWI2 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Pos	ABBIED600_Rev4_DPC_simple	Switch position		status-only
PosDlTmms	ABBIED600_Rev1_ING_SP_1_e	Event delay	E	ABBIED600:2014
PosOpn	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit opn	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit cls	E	ABBIED600:2014
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	ABBIED600:2014

6.2.276 LN: DCCILO1 Name: CILO (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		

EnaOpn	ABBIED600_Rev1_SPS	Enable Open		
EnaCls	ABBIED600_Rev1_SPS	Enable Close		
ItlByps	ABBIED600_Rev1_SPS_e	ITL_BYPASS	E	ABBIED600:2014

6.2.277 LN: DCCSWI1 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OfFOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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		
PosDlTmms	ABBIED600_Rev1_ING_SP_1_e	Event delay	E	ABBIED600:2014
PosOpn	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit opn	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit cls	E	ABBIED600:2014
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	ABBIED600:2014
AdpPls	ABBIED600_Rev1_SPG_SP_e	Adaptive pulse	E	ABBIED600:2014
OpnEna	ABBIED600_Rev1_SPS_e	OPEN_ENAD	E	ABBIED600:2014
ClsEna	ABBIED600_Rev1_SPS_e	CLOSE_ENAD	E	ABBIED600:2014

6.2.278 LN: DCXSWI1 Name: XSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS	Local operation		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter		
Pos	ABBIED600_Rev4_DPC_simple	Switch position		status-only
BlkOpn	ABBIED600_Rev1_SPC_simple	Block opening		status-only
BlkCls	ABBIED600_Rev1_SPC_simple	Block closing		status-only
SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		
SwOpCap	ABBIED600_Rev1_ENS_SwOpCap	Disconnector operating capability		

6.2.279 LN: DCCILO2 Name: CILO (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
EnaOpn	ABBIED600_Rev1_SPS	Enable Open		
EnaCls	ABBIED600_Rev1_SPS	Enable Close		

ItlByps	ABBIED600_Rev1_SPS_e	ITL_BYPASS	E	ABBIED600:2014

6.2.280 LN: DCCSWI2 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OfFOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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		
PosDlTmms	ABBIED600_Rev1_ING_SP_1_e	Event delay	E	ABBIED600:2014
PosOpn	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit opn	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit cls	E	ABBIED600:2014
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	ABBIED600:2014
AdpPls	ABBIED600_Rev1_SPG_SP_e	Adaptive pulse	E	ABBIED600:2014
OpnEna	ABBIED600_Rev1_SPS_e	OPEN_ENAD	E	ABBIED600:2014
ClsEna	ABBIED600_Rev1_SPS_e	CLOSE_ENAD	E	ABBIED600:2014

6.2.281 LN: DCXSWI2 Name: XSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS	Local operation		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter		
Pos	ABBIED600_Rev4_DPC_simple	Switch position		status-only
BlkOpn	ABBIED600_Rev1_SPC_simple	Block opening		status-only
BlkCls	ABBIED600_Rev1_SPC_simple	Block closing		status-only
SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		
SwOpCap	ABBIED600_Rev1_ENS_SwOpCap	Disconnector operating capability		

6.2.282 LN: ESCILO1 Name: CILO (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
EnaOpn	ABBIED600_Rev1_SPS	Enable Open		
EnaCls	ABBIED600_Rev1_SPS	Enable Close		
ItlByps	ABBIED600_Rev1_SPS_e	ITL_BYPASS	E	ABBIED600:2014

6.2.283 LN: ESCSWI1 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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		
PosDlTmms	ABBIED600_Rev1_ING_SP_1_e	Event delay	E	ABBIED600:2014
PosOpn	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit opn	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit cls	E	ABBIED600:2014
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	ABBIED600:2014
AdpPls	ABBIED600_Rev1_SPG_SP_e	Adaptive pulse	E	ABBIED600:2014
OpnEna	ABBIED600_Rev1_SPS_e	OPEN_ENAD	E	ABBIED600:2014
ClsEna	ABBIED600_Rev1_SPS_e	CLOSE_ENAD	E	ABBIED600:2014

6.2.284 LN: ESXSWI1 Name: XSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS	Local operation		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter		
Pos	ABBIED600_Rev4_DPC_simple	Switch position		status-only
BlkOpn	ABBIED600_Rev1_SPC_simple	Block opening		status-only
BlkCls	ABBIED600_Rev1_SPC_simple	Block closing		status-only
SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		
SwOpCap	ABBIED600_Rev1_ENS_SwOpCap	Disconnector operating capability		

6.2.285 LN: CBCSWI2 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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		
SelCls	ABBIED600_Rev1_SPS	Selection close switch		
PosDlT-mms	ABBIED600_Rev1_ING_SP_1_e	Event delay	E	ABBIED600:2014
PosOpn	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit opn	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit cls	E	ABBIED600:2014
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	ABBIED600:2014
AdpPls	ABBIED600_Rev1_SPG_SP_e	Adaptive pulse	E	ABBIED600:2014
OpnEna	ABBIED600_Rev1_SPS_e	OPEN_ENAD	E	ABBIED600:2014
ClsEna	ABBIED600_Rev1_SPS_e	CLOSE_ENAD	E	ABBIED600:2014
InSynOk	ABBIED600_Rev1_SPS_e	SYNC OK	E	ABBIED600:2014
SynItlByps	ABBIED600_Rev1_SPS_e	SYNC_ITL_BYP	E	ABBIED600:2014

6.2.286 LN: CBXCBR2 Name: XCBR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS	Local operation		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter		
Pos	ABBIED600_Rev4_DPC_simple	Switch position		status-only
BlkOpn	ABBIED600_Rev1_SPC_simple	Block opening		status-only
BlkCls	ABBIED600_Rev1_SPC_simple	Block closing		status-only
CBOpCap	ABBIED600_Rev2_ENS_CBOpCap	Circuit breaker operating capability		

6.2.287 LN: DCCILO3 Name: CILO (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
EnaOpn	ABBIED600_Rev1_SPS	Enable Open		
EnaCls	ABBIED600_Rev1_SPS	Enable Close		
ItlByps	ABBIED600_Rev1_SPS_e	ITL_BYPASS	E	ABBIED600:2014

6.2.288 LN: DCCSWI3 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_Of-fOn_FD	Mode		status-only,direct-with-normal-secu-rity
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
OpCntRs	ABBIED600_Rev2_INC_control_int	Operation coun-ter		status-only,direct-with-normal-secu-rity

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		
PosDlT-mms	ABBIED600_Rev1_ING_SP_1_e	Event delay	E	ABBIED600:2014
PosOpn	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit opn	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit cls	E	ABBIED600:2014
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	ABBIED600:2014
AdpPls	ABBIED600_Rev1_SPG_SP_e	Adaptive pulse	E	ABBIED600:2014
OpnEna	ABBIED600_Rev1_SPS_e	OPEN_ENAD	E	ABBIED600:2014
ClsEna	ABBIED600_Rev1_SPS_e	CLOSE_ENAD	E	ABBIED600:2014

6.2.289 LN: DCXSWI3 Name: XSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS	Local operation		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter		
Pos	ABBIED600_Rev4_DPC_simple	Switch position		status-only
BlkOpn	ABBIED600_Rev1_SPC_simple	Block opening		status-only
BlkCls	ABBIED600_Rev1_SPC_simple	Block closing		status-only
SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		
SwOpCap	ABBIED600_Rev1_ENS_SwOpCap	Disconnector operating capability		

6.2.290 LN: DCCILO4 Name: CILO (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
EnaOpn	ABBIED600_Rev1_SPS	Enable Open		
EnaCls	ABBIED600_Rev1_SPS	Enable Close		
ItlByps	ABBIED600_Rev1_SPS_e	ITL_BYPASS	E	ABBIED600:2014

6.2.291 LN: DCCSWI4 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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		
PosDlT-mms	ABBIED600_Rev1_ING_SP_1_e	Event delay	E	ABBIED600:2014
PosOpn	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit opn	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit cls	E	ABBIED600:2014
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	ABBIED600:2014
AdpPls	ABBIED600_Rev1_SPG_SP_e	Adaptive pulse	E	ABBIED600:2014
OpnEna	ABBIED600_Rev1_SPS_e	OPEN_ENAD	E	ABBIED600:2014
ClsEna	ABBIED600_Rev1_SPS_e	CLOSE_ENAD	E	ABBIED600:2014

6.2.292 LN: DCXSWI4 Name: XSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS	Local operation		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter		
Pos	ABBIED600_Rev4_DPC_simple	Switch position		status-only
BlkOpn	ABBIED600_Rev1_SPC_simple	Block opening		status-only
BlkCls	ABBIED600_Rev1_SPC_simple	Block closing		status-only
SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		
SwOpCap	ABBIED600_Rev1_ENS_SwOpCap	Disconnector operating capability		

6.2.293 LN: DCSXSWI4 Name: XSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS	Local operation		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter		
Pos	ABBIED600_Rev4_DPC_simple	Switch position		status-only
BlkOpn	ABBIED600_Rev1_SPC_simple	Block opening		status-only
BlkCls	ABBIED600_Rev1_SPC_simple	Block closing		status-only
SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		
SwOpCap	ABBIED600_Rev1_ENS_SwOpCap	Disconnector operating capability		

6.2.294 LN: DCSCSWI4 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Pos	ABBIED600_Rev4_DPC_simple	Switch position		status-only
PosDlTmms	ABBIED600_Rev1_ING_SP_1_e	Event delay	E	ABBIED600:2014
PosOpn	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit opn	E	ABBIED600:2014

PosCls	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit cls	E	ABBIED600:2014
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	ABBIED600:2014

6.2.295 LN: ESCILO2 Name: CILO (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
EnaOpn	ABBIED600_Rev1_SPS	Enable Open		
EnaCls	ABBIED600_Rev1_SPS	Enable Close		
ItlByps	ABBIED600_Rev1_SPS_e	ITL_BYPASS	E	ABBIED600:2014

6.2.296 LN: ESCSWI2 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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		
PosDlTmms	ABBIED600_Rev1_ING_SP_1_e	Event delay	E	ABBIED600:2014
PosOpn	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit opn	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit cls	E	ABBIED600:2014
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	ABBIED600:2014
AdpPls	ABBIED600_Rev1_SPG_SP_e	Adaptive pulse	E	ABBIED600:2014
OpnEna	ABBIED600_Rev1_SPS_e	OPEN_ENAD	E	ABBIED600:2014
ClsEna	ABBIED600_Rev1_SPS_e	CLOSE_ENAD	E	ABBIED600:2014

6.2.297 LN: ESXSWI2 Name: XSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS	Local operation		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter		
Pos	ABBIED600_Rev4_DPC_simple	Switch position		status-only
BlkOpn	ABBIED600_Rev1_SPC_simple	Block opening		status-only
BlkCls	ABBIED600_Rev1_SPC_simple	Block closing		status-only
SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		
SwOpCap	ABBIED600_Rev1_ENS_SwOpCap	Disconnector operating capability		

6.2.298 LN: CBCSWI3 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
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		
SelCls	ABBIED600_Rev1_SPS	Selection close switch		
PosDlTmms	ABBIED600_Rev1_ING_SP_1_e	Event delay	E	ABBIED600:2014
PosOpn	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit opn	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit cls	E	ABBIED600:2014
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	ABBIED600:2014
AdpPls	ABBIED600_Rev1_SPG_SP_e	Adaptive pulse	E	ABBIED600:2014
OpnEna	ABBIED600_Rev1_SPS_e	OPEN_ENAD	E	ABBIED600:2014
ClsEna	ABBIED600_Rev1_SPS_e	CLOSE_ENAD	E	ABBIED600:2014
InSynOk	ABBIED600_Rev1_SPS_e	SYNC OK	E	ABBIED600:2014
SynItlByps	ABBIED600_Rev1_SPS_e	SYNC_ITL_BYP	E	ABBIED600:2014

6.2.299 LN: CBXCBR3 Name: XCBR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS	Local operation		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter		
Pos	ABBIED600_Rev4_DPC_simple	Switch position		status-only
BlkOpn	ABBIED600_Rev1_SPC_simple	Block opening		status-only
BlkCls	ABBIED600_Rev1_SPC_simple	Block closing		status-only
CBOpCap	ABBIED600_Rev2_ENS_CBOpCap	Circuit breaker operating capability		

6.2.300 LN: RDRE1 Name: RDRE (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		

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 recordings		
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 deleted	E	ABBIED600:2014
RmnRcdCap	ABBIED600_Rev1_INS_e	Rem. amount of rec.	E	ABBIED600:2014
MemFullSt	ABBIED600_Rev1_SPS_simple_e	Memory full	E	ABBIED600:2014
OvWrRcdInd	ABBIED600_Rev1_SPS_simple_e	Overwrite of rec.	E	ABBIED600:2014
PreTrgLen	ABBIED600_Rev1_ING_SP_1_e	Pre-trg length	E	ABBIED600:2014
RcdLen	ABBIED600_Rev1_ING_SP_1_e	Record length	E	ABBIED600:2014
StoRteSel	ABBIED600_Rev2_ING_SP_EStoRte_e	Storage rate	E	ABBIED600:2014
StoModPer	ABBIED600_Rev2_ENG_SP_EStoMod_e	Stor. mode periodic	E	ABBIED600:2014
StoModMan	ABBIED600_Rev2_ENG_SP_EStoMod_e	Stor. mode manual	E	ABBIED600:2014
PerTmRmn	ABBIED600_Rev1_INS_e	Time to trigger	E	ABBIED600:2014
PerTrgInd	ABBIED600_Rev1_SPS_simple_e	Periodic triggering	E	ABBIED600:2014
ManTrgInd	ABBIED600_Rev1_SPS_simple_e	Manual triggering	E	ABBIED600:2014

6.2.301 LN: RBDR1 Name: RBDR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_OnOff_NoBlk	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
ChTrg	ABBIED600_Rev1_SPS_simple	Channel triggered		
LevMod	ABBIED600_Rev2_ENG_SP_LevMod	Level trigger mode		
StoMod	ABBIED600_Rev2_ENG_SP_EStoMod_e	Storage mode	E	ABBIED600:2014

ExclTmRmn	ABBIED600_Rev1_INS_e	Exclusion time rem.	E	ABBIED600:2014
BinInSt	ABBIED600_Rev1_SPS_e	input	E	ABBIED600:2014

6.2.302 LN: RADR1 Name: RADR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_OnOff_No-Blk	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
ChTrg	ABBIED600_Rev1_SPS_simple	Channel triggered		
HiTrgLev	ABBIED600_Rev3_ASG_SP_i	High trigger level		
LoTrgLev	ABBIED600_Rev3_ASG_SP_i	Low trigger level		
ChSigSel	AB-BIED600_Rev5_ENG_SP_RadrChNum_e	input	E	ABBIED600:2014
StoMod	ABBIED600_Rev2_ENG_SP_EStoMod_e	Storage mode	E	ABBIED600:2014
ExclTmRmn	ABBIED600_Rev1_INS_e	Exclusion time rem.	E	ABBIED600:2014

7 Common Data Class Extensions

7.1 New common data classes

None

7.2 Extented data classes ED1

None

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	1.48 1.23 ms	SMV Max Delay,SMV Maximum allowed delay
1	2.73 2.27 ms	SMV Max Delay,SMV Maximum allowed delay
2	3.98 3.32 ms	SMV Max Delay,SMV Maximum allowed delay
3	5.23 4.36 ms	SMV Max Delay,SMV Maximum allowed delay
4	6.48 5.40 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 force,Force IED test mode from 61850 client
2	Maintenance	Remote force,Force IED test mode from 61850 client
3	All levels	Remote force,Force IED test mode from 61850 client

8.1.13 ABBIED600_Rev3_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

8.1.14 ABBIED600_Rev3_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

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_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

8.1.24 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

8.1.25 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

8.1.26 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

8.1.27 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

8.1.28 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

8.1.29 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

8.1.30 ABBIED600_Rev1_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

8.1.31 ABBIED600_Rev1_StrPhSel

Value	Description	Remarks
1	1 out of 3	Num of phases,Number of phases required by limit supervision
2	2 out of 3	Num of phases,Number of phases required by limit supervision
3	3 out of 3	Num of phases,Number of phases required by limit supervision

8.1.32 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

8.1.33 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

8.1.34 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

8.1.35 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

8.1.36 ABBIED600_Rev1_TestProKind

Value	Description	Remarks

0	Reset	STTPMSU1,Test control for outputs
1	Activate START	STTPMSU1,Test control for outputs
2	Deactive START	STTPMSU1,Test control for outputs
3	Activate ST_A	STTPMSU1,Test control for outputs
4	Deactive ST_A	STTPMSU1,Test control for outputs
5	Activate ST_B	STTPMSU1,Test control for outputs
6	Deactive ST_B	STTPMSU1,Test control for outputs
7	Activate ST_C	STTPMSU1,Test control for outputs
8	Deactive ST_C	STTPMSU1,Test control for outputs
9	Activate OPERATE	STTPMSU1,Test control for outputs
10	Deactive OPERATE	STTPMSU1,Test control for outputs
11	Activate OPR_A	STTPMSU1,Test control for outputs
12	Deactive OPR_A	STTPMSU1,Test control for outputs
13	Activate OPR_B	STTPMSU1,Test control for outputs
14	Deactive OPR_B	STTPMSU1,Test control for outputs
15	Activate OPR_C	STTPMSU1,Test control for outputs
16	Deactive OPR_C	STTPMSU1,Test control for outputs
17	Activate ALARM	STTPMSU1,Test control for outputs
18	Deactive ALARM	STTPMSU1,Test control for outputs
19	Activate WARNING	STTPMSU1,Test control for outputs
20	Deactive WARNING	STTPMSU1,Test control for outputs
21	Activate BLK_CLOSE	STTPMSU1,Test control for outputs
22	Deactive BLK_CLOSE	STTPMSU1,Test control for outputs
23	Activate BLK_EF	STTPMSU1,Test control for outputs
24	Deactive BLK_EF	STTPMSU1,Test control for outputs
25	Activate ARC_FLT_DET	STTPMSU1,Test control for outputs
26	Deactive ARC_FLT_DET	STTPMSU1,Test control for outputs
27	Activate STR_LS_LOC	STTPMSU1,Test control for outputs
28	Deactive STR_LS_LOC	STTPMSU1,Test control for outputs
29	Activate STR_LS_REM	STTPMSU1,Test control for outputs
30	Deactive STR_LS_REM	STTPMSU1,Test control for outputs
31	Activate OPR_LS_LOC	STTPMSU1,Test control for outputs
32	Deactive OPR_LS_LOC	STTPMSU1,Test control for outputs
33	Activate OPR_LS_REM	STTPMSU1,Test control for outputs
34	Deactive OPR_LS_REM	STTPMSU1,Test control for outputs
35	Activate OPR_HS_LOC	STTPMSU1,Test control for outputs
36	Deactive OPR_HS_LOC	STTPMSU1,Test control for outputs
37	Activate OPR_HS_REM	STTPMSU1,Test control for outputs
38	Deactive OPR_HS_REM	STTPMSU1,Test control for outputs
39	Activate RSTD2H_LOC	STTPMSU1,Test control for outputs
40	Deactive RSTD2H_LOC	STTPMSU1,Test control for outputs
41	Activate RSTD2H_REM	STTPMSU1,Test control for outputs

42	Deactive RSTD2H_REM	STTPMSU1,Test control for outputs
43	Activate PROT_ACTIVE	STTPMSU1,Test control for outputs
44	Deactive PROT_ACTIVE	STTPMSU1,Test control for outputs
45	Activate RESTORE	STTPMSU1,Test control for outputs
46	Deactive RESTORE	STTPMSU1,Test control for outputs
47	Activate RELEASE	STTPMSU1,Test control for outputs
48	Deactive RELEASE	STTPMSU1,Test control for outputs
49	Activate OPR_IIT	STTPMSU1,Test control for outputs
50	Deactive OPR_IIT	STTPMSU1,Test control for outputs
51	Activate OPR_STALL	STTPMSU1,Test control for outputs
52	Deactive OPR_STALL	STTPMSU1,Test control for outputs
53	Activate MOT_START	STTPMSU1,Test control for outputs
54	Deactive MOT_START	STTPMSU1,Test control for outputs
55	Activate LOCK_START	STTPMSU1,Test control for outputs
56	Deactive LOCK_START	STTPMSU1,Test control for outputs
57	Activate BLK_RESTART	STTPMSU1,Test control for outputs
58	Deactive BLK_RESTART	STTPMSU1,Test control for outputs
59	Activate OPR_LS	STTPMSU1,Test control for outputs
60	Deactive OPR_LS	STTPMSU1,Test control for outputs
61	Activate OPR_HS	STTPMSU1,Test control for outputs
62	Deactive OPR_HS	STTPMSU1,Test control for outputs
63	Activate BLKD2H	STTPMSU1,Test control for outputs
64	Deactive BLKD2H	STTPMSU1,Test control for outputs
65	Activate BLKD5H	STTPMSU1,Test control for outputs
66	Deactive BLKD5H	STTPMSU1,Test control for outputs
67	Activate BLKDWAV	STTPMSU1,Test control for outputs
68	Deactive BLKDWAV	STTPMSU1,Test control for outputs
69	Activate OPR_UFRQ	STTPMSU1,Test control for outputs
70	Deactive OPR_UFRQ	STTPMSU1,Test control for outputs
71	Activate OPR_OFRQ	STTPMSU1,Test control for outputs
72	Deactive OPR_OFRQ	STTPMSU1,Test control for outputs
73	Activate OPR_FRG	STTPMSU1,Test control for outputs
74	Deactive OPR_FRG	STTPMSU1,Test control for outputs
75	Activate ST_UFRQ	STTPMSU1,Test control for outputs
76	Deactive ST_UFRQ	STTPMSU1,Test control for outputs
77	Activate ST_OFRQ	STTPMSU1,Test control for outputs
78	Deactive ST_OFRQ	STTPMSU1,Test control for outputs
79	Activate ST_FRG	STTPMSU1,Test control for outputs
80	Deactive ST_FRG	STTPMSU1,Test control for outputs
81	Activate ST_REST	STTPMSU1,Test control for outputs
82	Deactive ST_REST	STTPMSU1,Test control for outputs
83	Activate INT_BLKD	STTPMSU1,Test control for outputs

84	Deactive INT_BLKD	STTPMSU1,Test control for outputs
85	Activate COOL_ACTIVE	STTPMSU1,Test control for outputs
86	Deactive COOL_ACTIVE	STTPMSU1,Test control for outputs
87	Activate OPERATE_Z1	STTPMSU1,Test control for outputs
88	Deactive OPERATE_Z1	STTPMSU1,Test control for outputs
89	Activate OPERATE_Z2	STTPMSU1,Test control for outputs
90	Deactive OPERATE_Z2	STTPMSU1,Test control for outputs
91	Activate OPERATE_Z3	STTPMSU1,Test control for outputs
92	Deactive OPERATE_Z3	STTPMSU1,Test control for outputs
93	Activate OPERATE_Z4	STTPMSU1,Test control for outputs
94	Deactive OPERATE_Z4	STTPMSU1,Test control for outputs
95	Activate OPERATE_Z5	STTPMSU1,Test control for outputs
96	Deactive OPERATE_Z5	STTPMSU1,Test control for outputs
97	Activate START_Z1	STTPMSU1,Test control for outputs
98	Deactive START_Z1	STTPMSU1,Test control for outputs
99	Activate START_Z2	STTPMSU1,Test control for outputs
100	Deactive START_Z2	STTPMSU1,Test control for outputs
101	Activate START_Z3	STTPMSU1,Test control for outputs
102	Deactive START_Z3	STTPMSU1,Test control for outputs
103	Activate START_Z4	STTPMSU1,Test control for outputs
104	Deactive START_Z4	STTPMSU1,Test control for outputs
105	Activate START_Z5	STTPMSU1,Test control for outputs
106	Deactive START_Z5	STTPMSU1,Test control for outputs
107	Activate LODDSR_GFC	STTPMSU1,Test control for outputs
108	Deactive LODDSR_GFC	STTPMSU1,Test control for outputs
109	Activate START_GFC	STTPMSU1,Test control for outputs
110	Deactive START_GFC	STTPMSU1,Test control for outputs
111	Activate ST_ALARM	STTPMSU1,Test control for outputs
112	Deactive ST_ALARM	STTPMSU1,Test control for outputs
113	Activate OPR_OVLOD	STTPMSU1,Test control for outputs
114	Deactive OPR_OVLOD	STTPMSU1,Test control for outputs
115	Activate ST_OVLOD	STTPMSU1,Test control for outputs
116	Deactive ST_OVLOD	STTPMSU1,Test control for outputs
117	Activate OPR_UN_I	STTPMSU1,Test control for outputs
118	Deactive OPR_UN_I	STTPMSU1,Test control for outputs
119	Activate ST_UN_I	STTPMSU1,Test control for outputs
120	Deactive ST_UN_I	STTPMSU1,Test control for outputs

8.1.37 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

8.1.38 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

8.1.39 ABBIED600_Rev1_OutConn

Value	Description	Remarks
0	Not connected	OUT_1 connection,Connect OUT_1 signal
1	IN_1	OUT_1 connection,Connect OUT_1 signal
2	IN_2	OUT_1 connection,Connect OUT_1 signal
3	IN_3	OUT_1 connection,Connect OUT_1 signal
4	IN_4	OUT_1 connection,Connect OUT_1 signal
5	IN_5	OUT_1 connection,Connect OUT_1 signal
6	IN_6	OUT_1 connection,Connect OUT_1 signal
7	IN_7	OUT_1 connection,Connect OUT_1 signal
8	IN_8	OUT_1 connection,Connect OUT_1 signal
9	IN_9	OUT_1 connection,Connect OUT_1 signal
10	IN_10	OUT_1 connection,Connect OUT_1 signal
11	IN_11	OUT_1 connection,Connect OUT_1 signal
12	IN_12	OUT_1 connection,Connect OUT_1 signal
13	IN_13	OUT_1 connection,Connect OUT_1 signal
14	IN_14	OUT_1 connection,Connect OUT_1 signal
15	IN_15	OUT_1 connection,Connect OUT_1 signal
16	IN_16	OUT_1 connection,Connect OUT_1 signal
17	IN_17	OUT_1 connection,Connect OUT_1 signal
18	IN_18	OUT_1 connection,Connect OUT_1 signal
19	IN_19	OUT_1 connection,Connect OUT_1 signal
20	IN_20	OUT_1 connection,Connect OUT_1 signal

8.1.40 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

8.1.41 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

8.1.42 ABBIED600_Rev1_FibMod

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

8.1.43 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

8.1.44 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

8.1.45 ABBIED600_Rev1_EthPortMod

Value	Description	Remarks
0	OFF	Port 1 mode,Ethernet port mode
1	GENERIC	Port 1 mode,Ethernet port mode

8.1.46 ABBIED600_Rev1_OpModComp

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

8.1.47 ABBIED600_Rev1_AlmMod

Value	Description	Remarks
1	Any of selected	Alarm mode,Selects the used alarm logic mode for activating SEND_SIG_A and RECV_SIG_A
2	All of selected	Alarm mode,Selects the used alarm logic mode for activating SEND_SIG_A and RECV_SIG_A

8.1.48 ABBIED600_Rev1_BstMode

Value	Description	Remarks
1	In use	Signal 1 mode,Operation mode for signal 1
2	In use, alarm sel.	Signal 1 mode,Operation mode for signal 1
3	Not in use	Signal 1 mode,Operation mode for signal 1

8.1.49 ABBIED600_Rev1_CTConnTyp

Value	Description	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.

8.1.50 ABBIED600_Rev1_WndSel

Value	Description	Remarks
1	Not in use	Winding selection,IED location respect to transformer, HV (Winding 1) side or LV (Winding 2) side
2	Winding 1	Winding selection,IED location respect to transformer, HV (Winding 1) side or LV (Winding 2) side

3	Winding 2	Winding selection,IED location respect to transformer, HV (Winding 1) side or LV (Winding 2) side
4	Winding 3	Winding selection,IED location respect to transformer, HV (Winding 1) side or LV (Winding 2) side

8.1.51 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

8.1.52 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

8.1.53 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)

8.1.54 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

8.1.55 ABBIED600_Rev1_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

8.1.56 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

8.1.57 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

8.1.58 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

8.1.59 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

8.1.60 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

8.1.61 ABBIED600_Rev1_FuLoct

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

8.1.62 ABBIED600_Rev1_RcdUnbPhKind

Value	Description	Remarks
0	Do not record	Record unbalance,Record natural unbalance current
1	Record all phases	Record unbalance,Record natural unbalance current
2	Record phase A	Record unbalance,Record natural unbalance current
3	Record phase B	Record unbalance,Record natural unbalance current
4	Record phase C	Record unbalance,Record natural unbalance current

8.1.63 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

8.1.64 ABBIED600_Rev1_VResSigSel

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

8.1.65 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

8.1.66 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

8.1.67 ABBIED600_Rev1_OpModTEF

Value	Description	Remarks
1	Intermittent EF	Operation mode,Operation criteria
2	Transient EF	Operation mode,Operation criteria

8.1.68 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

8.1.69 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

8.1.70 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

8.1.71 ABBIED600_Rev2_TestCtlKind

Value	Description	Remarks
0	Reset	SECRSYN1,Test control for outputs
1	Activate START	SECRSYN1,Test control for outputs
2	Deactive START	SECRSYN1,Test control for outputs
3	Activate ALARM	SECRSYN1,Test control for outputs
4	Deactive ALARM	SECRSYN1,Test control for outputs
5	Activate OPEN_CB	SECRSYN1,Test control for outputs
6	Deactive OPEN_CB	SECRSYN1,Test control for outputs
7	Activate CLOSE_CB	SECRSYN1,Test control for outputs
8	Deactive CLOSE_CB	SECRSYN1,Test control for outputs
9	Activate CMD_WAIT	SECRSYN1,Test control for outputs
10	Deactive CMD_WAIT	SECRSYN1,Test control for outputs
11	Activate PROT_CRD	SECRSYN1,Test control for outputs

12	Deactive PROT_CRD	SECRSYN1,Test control for outputs
13	Activate INPRO	SECRSYN1,Test control for outputs
14	Deactive INPRO	SECRSYN1,Test control for outputs
15	Activate LOCKED	SECRSYN1,Test control for outputs
16	Deactive LOCKED	SECRSYN1,Test control for outputs
17	Activate UNSUC_RECL	SECRSYN1,Test control for outputs
18	Deactive UNSUC_RECL	SECRSYN1,Test control for outputs
19	Activate AR_ON	SECRSYN1,Test control for outputs
20	Deactive AR_ON	SECRSYN1,Test control for outputs
21	Activate READY	SECRSYN1,Test control for outputs
22	Deactive READY	SECRSYN1,Test control for outputs
23	Activate RAISE	SECRSYN1,Test control for outputs
24	Deactive RAISE	SECRSYN1,Test control for outputs
25	Activate LOWER	SECRSYN1,Test control for outputs
26	Deactive LOWER	SECRSYN1,Test control for outputs
27	Activate PAR_FAIL	SECRSYN1,Test control for outputs
28	Deactive PAR_FAIL	SECRSYN1,Test control for outputs
29	Activate SYNC_INPRO	SECRSYN1,Test control for outputs
30	Deactive SYNC_INPRO	SECRSYN1,Test control for outputs
31	Activate SYNC_OK	SECRSYN1,Test control for outputs
32	Deactive SYNC_OK	SECRSYN1,Test control for outputs
33	Activate CL_FAIL_AL	SECRSYN1,Test control for outputs
34	Deactive CL_FAIL_AL	SECRSYN1,Test control for outputs
35	Activate CMD_FAIL_AL	SECRSYN1,Test control for outputs
36	Deactive CMD_FAIL_AL	SECRSYN1,Test control for outputs
37	Activate LLDB	SECRSYN1,Test control for outputs
38	Deactive LLDB	SECRSYN1,Test control for outputs
39	Activate LLLB	SECRSYN1,Test control for outputs
40	Deactive LLLB	SECRSYN1,Test control for outputs
41	Activate DLLB	SECRSYN1,Test control for outputs
42	Deactive DLLB	SECRSYN1,Test control for outputs
43	Activate DLDB	SECRSYN1,Test control for outputs
44	Deactive DLDB	SECRSYN1,Test control for outputs
45	Activate ACTIVE	SECRSYN1,Test control for outputs
46	Deactive ACTIVE	SECRSYN1,Test control for outputs

8.1.72 ABBIED600_Rev1_PHIZMod

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

8.1.73 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

8.1.74 ABBIED600_Rev2_OpModATCC

Value	Description	Remarks
1	Command	Operation mode,The operation mode
2	Input control	Operation mode,The operation mode

8.1.75 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

8.1.76 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

8.1.77 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

8.1.78 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

8.1.79 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

8.1.80 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

8.1.81 ABBIED600_Rev1_OpModPh

Value	Description	Remarks
1	Three Phase	Operation mode,Number of phases needed to start
2	Single Phase	Operation mode,Number of phases needed to start

8.1.82 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)

8.1.83 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

8.1.84 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

8.1.85 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

8.1.86 ABBIED600_Rev1_DmdWinMod

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

8.1.87 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

8.1.88 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

8.1.89 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

8.1.90 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

8.1.91 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

8.1.92 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

8.1.93 ABBIED600_Rev2_AGrpTyp

Value	Description	Remarks
1	Not in use	Current group 3 type,Type of the third set/group of current inputs
2	Winding 3	Current group 3 type,Type of the third set/group of current inputs
3	Wnd 1 restraint	Current group 3 type,Type of the third set/group of current inputs
4	Wnd 2 restraint	Current group 3 type,Type of the third set/group of current inputs

8.1.94 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

8.1.95 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

8.1.96 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

8.1.97 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

8.1.98 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

8.1.99 ABBIED600_Rev1_TermVSel

Value	Description	Remarks
1	No voltage	Voltage selection,Type of voltage connection available at generator terminal
2	Measured Uo	Voltage selection,Type of voltage connection available at generator terminal
3	Calculated Uo	Voltage selection,Type of voltage connection available at generator terminal
4	Phase A	Voltage selection,Type of voltage connection available at generator terminal
5	Phase B	Voltage selection,Type of voltage connection available at generator terminal
6	Phase C	Voltage selection,Type of voltage connection available at generator terminal

8.1.100 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

8.1.101 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

8.1.102 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

8.1.103 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

8.1.104 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

8.1.105 ABBIED600_Rev2_LocRem

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	All	LR state,LR state monitoring

8.1.106 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

8.1.107 ABBIED600_Rev1_StaAuth

Value	Description	Remarks
1	Not used	Station authority,Control command originator category usage
2	Station, Remote	Station authority,Control command originator category usage

8.1.108 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

8.1.109 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

8.1.110 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 Extended 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_Rev21_ProFcn

Value	Description	Remarks
-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
-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
-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
-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	HIPDIF3	Protection,Protection function
-27	HIPDIF2	Protection,Protection function
-26	HIPDIF1	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
14	MFADPSDE1	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
-3	JAMPTOC1	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
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
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

8.2.6 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_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.

8.2.8 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

8.2.9 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

8.2.10 ABBIED600_Rev1_FaultLoopKind

Value	Description	Remarks
-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
0	No fault	FAULT_LOOP,Fault impedance loop
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

8.2.11 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

9 Control Block Extensions

None

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