

Protection and Control Relay

615 series

IEC 61850 Ed1 Model Implementation Conformance Statement (MICS) for 615 series



ABB

Table of Contents

1	About this manual	12
1.1	Read it first!	12
1.2	Document information	12
1.3	Safety Information	12
2	Abbreviations and Definitions	14
2.1	Abbreviations	14
2.2	Definitions	14
3	References	15
4	Introduction	15
5	Logical Nodes List	16
6	Logical Node Extensions	28
6.1	New Logical Nodes	28
6.1.1	LN: LINF1 Name: LINF (ED1)	28
6.1.2	LN: LDEV1 Name: LDEV (ED1)	28
6.1.3	LN: GSELPRT1 Name: LPRT (ED1)	31
6.1.4	LN: MMSLPORT1 Name: LPRT (ED1)	32
6.1.5	LN: GNRLLTMM1 Name: LTMM (ED1)	32
6.1.6	LN: GNRLLTIM1 Name: LTIM (ED1)	34
6.1.7	LN: TCSSCBR1 Name: SCBR (ED1)	34
6.1.8	LN: TCSSCBR2 Name: SCBR (ED1)	35
6.1.9	LN: TPGAPC1 Name: GAPC (ED1)	35
6.1.10	LN: TPGAPC2 Name: GAPC (ED1)	35
6.1.11	LN: TPGAPC3 Name: GAPC (ED1)	36
6.1.12	LN: TPGAPC4 Name: GAPC (ED1)	36
6.1.13	LN: FLTRFRC1 Name: RFRC (ED1)	36
6.1.14	LN: MDSOPT1 Name: SOPT (ED1)	40
6.1.15	LN: CCSPVC1 Name: SPVC (ED1)	41
6.1.16	LN: HIPDIF1 Name: PDIF (ED1)	42
6.1.17	LN: HZCCSPVC1 Name: SPVC (ED1)	42
6.1.18	LN: HZCCASPVC1 Name: SPVC (ED1)	43
6.1.19	LN: HZCCBSPVC1 Name: SPVC (ED1)	44
6.1.20	LN: HZCCCSPVC1 Name: SPVC (ED1)	44
6.1.21	LN: MVGAPC1 Name: GAPC (ED1)	45
6.1.22	LN: ISWGAPC1 Name: GAPC (ED1)	45
6.1.23	LN: OSWGAPC1 Name: GAPC (ED1)	47
6.1.24	LN: SELGAPC1 Name: GAPC (ED1)	49
6.1.25	LN: GSAL1 Name: GSAL (ED1)	51
6.1.26	LN: CBPSOF1 Name: PSOF (ED1)	52
6.1.27	LN: SERLCCH1 Name: LCCH (ED1)	52
6.1.28	LN: SERLCCH2 Name: LCCH (ED1)	53
6.1.29	LN: RCHLCCH1 Name: LCCH (ED1)	54
6.1.30	LN: SCHLCCH1 Name: LCCH (ED1)	55

6.1.31	LN: SCHLCCH2 Name: LCCH (ED1).....	55
6.1.32	LN: SCHLCCH3 Name: LCCH (ED1).....	55
6.1.33	LN: MVGAPC2 Name: GAPC (ED1)	56
6.1.34	LN: SRGAPC1 Name: GAPC (ED1)	56
6.1.35	LN: SRGAPC2 Name: GAPC (ED1)	57
6.1.36	LN: TONGAPC1 Name: GAPC (ED1).....	58
6.1.37	LN: TONGAPC2 Name: GAPC (ED1).....	59
6.1.38	LN: TOFGAPC1 Name: GAPC (ED1)	60
6.1.39	LN: TOFGAPC2 Name: GAPC (ED1)	61
6.1.40	LN: PTGAPC1 Name: GAPC (ED1).....	62
6.1.41	LN: PTGAPC2 Name: GAPC (ED1).....	63
6.1.42	LN: TPMGAPC1 Name: GAPC (ED1)	64
6.1.43	LN: TPMGAPC2 Name: GAPC (ED1)	64
6.1.44	LN: SPCGAPC1 Name: GAPC (ED1)	64
6.1.45	LN: SPCGAPC2 Name: GAPC (ED1)	66
6.1.46	LN: LNLPDIF1 Name: PDIF (ED1).....	67
6.1.47	LN: LNHPDIF1 Name: PDIF (ED1)	69
6.1.48	LN: LNRMXU1 Name: RMXU (ED1)	69
6.1.49	LN: PCSITPC1 Name: ITPC (ED1)	70
6.1.50	LN: LDPRRLRC1 Name: RLRC (ED1)	70
6.1.51	LN: SSCBR1 Name: SCBR (ED1)	71
6.1.52	LN: SPH1SCBR1 Name: SCBR (ED1)	74
6.1.53	LN: SPH2SCBR1 Name: SCBR (ED1)	75
6.1.54	LN: SPH3SCBR1 Name: SCBR (ED1)	75
6.1.55	LN: SSOPM1 Name: SOPM (ED1)	75
6.1.56	LN: TR2LPDIF1 Name: PDIF (ED1).....	76
6.1.57	LN: TR2HPDIF1 Name: PDIF (ED1)	78
6.1.58	LN: SSCBR2 Name: SCBR (ED1)	78
6.1.59	LN: SPH1SCBR2 Name: SCBR (ED1)	81
6.1.60	LN: SPH2SCBR2 Name: SCBR (ED1)	81
6.1.61	LN: SPH3SCBR2 Name: SCBR (ED1)	82
6.1.62	LN: SSOPM2 Name: SOPM (ED1)	82
6.1.63	LN: SEQSPVC1 Name: SPVC (ED1).....	83
6.1.64	LN: PEAVMMXU1 Name: MMXU (ED1)	84
6.1.65	LN: PEMAMMMXU1 Name: MMXU (ED1).....	84
6.1.66	LN: PEMIMMMXU1 Name: MMXU (ED1)	85
6.1.67	LN: UDFCNT1 Name: FCNT (ED1)	85
6.1.68	LN: SPCGAPC3 Name: GAPC (ED1)	86
6.1.69	LN: SPCLGAPC1 Name: GAPC (ED1)	87
6.1.70	LN: SPCRGAPC1 Name: GAPC (ED1)	88
6.1.71	LN: SECRSYN1 Name: RSYN (ED1)	89
6.1.72	LN: HREFPDIF1 Name: PDIF (ED1).....	90
6.1.73	LN: HIAPDIF1 Name: PDIF (ED1)	91
6.1.74	LN: HIBPDIF1 Name: PDIF (ED1)	91
6.1.75	LN: HICPDIF1 Name: PDIF (ED1)	92
6.1.76	LN: LREFPDIF1 Name: PDIF (ED1)	93
6.1.77	LN: OLATCC1 Name: ATCC (ED1)	93
6.1.78	LN: RESTVTR2 Name: TVTR (ED1).....	97

6.1.79	LN: EFPADM1 Name: PADM (ED1)	97
6.1.80	LN: DARREC1 Name: RREC (ED1)	99
6.1.81	LN: PH1QVVR1 Name: QVVR (ED1)	105
6.1.82	LN: PH2QVVR1 Name: QVVR (ED1)	108
6.1.83	LN: PH3QVVR1 Name: QVVR (ED1)	108
6.1.84	LN: QVV1RQRC1 Name: RQRC (ED1).....	108
6.1.85	LN: QVV2RQRC1 Name: RQRC (ED1).....	109
6.1.86	LN: QVV3RQRC1 Name: RQRC (ED1).....	110
6.1.87	LN: VSQVUB1 Name: QVUB (ED1).....	111
6.1.88	LN: QVU1RQRC1 Name: RQRC (ED1).....	112
6.1.89	LN: QVU2RQRC1 Name: RQRC (ED1).....	112
6.1.90	LN: QVU3RQRC1 Name: RQRC (ED1).....	113
6.1.91	LN: MHPDIF1 Name: PDIF (ED1).....	113
6.1.92	LN: MLPDIF1 Name: PDIF (ED1)	113
6.1.93	LN: MDSOPT2 Name: SOPT (ED1).....	115
6.1.94	LN: CCSPVC2 Name: SPVC (ED1)	116
6.1.95	LN: CTSRCTF1 Name: RCTF (ED1)	116
6.1.96	LN: TR3LPDIF1 Name: PDIF (ED1).....	117
6.1.97	LN: TR3HPDIF1 Name: PDIF (ED1)	120
6.1.98	LN: SSCBR3 Name: SCBR (ED1)	120
6.1.99	LN: SPH1SCBR3 Name: SCBR (ED1)	123
6.1.100	LN: SPH2SCBR3 Name: SCBR (ED1)	123
6.1.101	LN: SPH3SCBR3 Name: SCBR (ED1)	124
6.1.102	LN: SSOPM3 Name: SOPM (ED1)	124
6.1.103	LN: TCSSCBR3 Name: SCBR (ED1).....	125
6.1.104	LN: SCEFRFL01 Name: RFLO (ED1)	125
6.1.105	LN: FLO1RFRC1 Name: RFRC (ED1).....	127
6.1.106	LN: SCEF1ZLIN1 Name: ZLIN (ED1).....	128
6.1.107	LN: SCEF2ZLIN1 Name: ZLIN (ED1).....	128
6.1.108	LN: SCEF3ZLIN1 Name: ZLIN (ED1).....	128
6.1.109	LN: IL1TCTR3 Name: TCTR (ED1).....	129
6.1.110	LN: RESTVTR1 Name: TVTR (ED1).....	129
6.1.111	LN: UL1TVTR1 Name: TVTR (ED1)	130
6.1.112	LN: IL1TCTR1 Name: TCTR (ED1).....	130
6.1.113	LN: RESTCTR1 Name: TCTR (ED1)	131
6.1.114	LN: IL1TCTR2 Name: TCTR (ED1).....	132
6.1.115	LN: RESTCTR2 Name: TCTR (ED1)	132
6.1.116	LN: UL1TVTR2 Name: TVTR (ED1)	133
6.1.117	LN: UL1TVTR3 Name: TVTR (ED1)	133
6.1.118	LN: I3CLPRT1 Name: LPRT (ED1).....	134
6.1.119	LN: DNPLPRT1 Name: LPRT (ED1).....	136
6.1.120	LN: MBSLPRT1 Name: LPRT (ED1).....	138
6.1.121	LN: MBMLPRT1 Name: LPRT (ED1)	140
6.1.122	LN: RDRE1 Name: RDRE (ED1)	141
6.2	3.2 Extented Logical Nodes	142
6.2.1	LN: CMMXU1 Name: MMXU (ED1)	142
6.2.2	LN: CAVMMXU1 Name: MMXU (ED1)	142

6.2.3	LN: CMAMMXU1 Name: MMXU (ED1).....	143
6.2.4	LN: CMIMMXU1 Name: MMXU (ED1).....	143
6.2.5	LN: RESCMMXU1 Name: MMXU (ED1).....	144
6.2.6	LN: RCAVMMXU1 Name: MMXU (ED1).....	144
6.2.7	LN: RCMAMMXU1 Name: MMXU (ED1).....	144
6.2.8	LN: RCMIMMXU1 Name: MMXU (ED1).....	145
6.2.9	LN: PHLPTOC1 Name: PTOC (ED1).....	145
6.2.10	LN: PHHPTOC1 Name: PTOC (ED1).....	146
6.2.11	LN: PHHPTOC2 Name: PTOC (ED1).....	147
6.2.12	LN: PHIPTOC1 Name: PTOC (ED1).....	148
6.2.13	LN: NSPTOC1 Name: PTOC (ED1).....	148
6.2.14	LN: NSPTOC2 Name: PTOC (ED1).....	149
6.2.15	LN: PDNSPTOC1 Name: PTOC (ED1).....	150
6.2.16	LN: T1PTTR1 Name: PTTR (ED1).....	151
6.2.17	LN: INRPHAR1 Name: PHAR (ED1).....	152
6.2.18	LN: CCBRBRF1 Name: RBRF (ED1).....	152
6.2.19	LN: TRPPTRC1 Name: PTRC (ED1).....	153
6.2.20	LN: TRPPTRC2 Name: PTRC (ED1).....	154
6.2.21	LN: TCSSCBR1 Name: SCBR (ED1).....	155
6.2.22	LN: TCSSCBR2 Name: SCBR (ED1).....	155
6.2.23	LN: TPGAPC1 Name: GAPC (ED1).....	155
6.2.24	LN: TPGAPC2 Name: GAPC (ED1).....	156
6.2.25	LN: TPGAPC3 Name: GAPC (ED1).....	156
6.2.26	LN: TPGAPC4 Name: GAPC (ED1).....	156
6.2.27	LN: ESMGAPC1 Name: GAPC (ED1).....	157
6.2.28	LN: STTPMSS1 Name: PMSS (ED1).....	157
6.2.29	LN: PREVPTOC1 Name: PTOC (ED1).....	158
6.2.30	LN: JAMPTOC1 Name: PTOC (ED1).....	159
6.2.31	LN: MPTTR1 Name: PTTR (ED1).....	159
6.2.32	LN: LOFLPTUC1 Name: PTUC (ED1).....	161
6.2.33	LN: EFLPTOC1 Name: PTOC (ED1).....	161
6.2.34	LN: EFHPTOC1 Name: PTOC (ED1).....	162
6.2.35	LN: PTGAPC1 Name: GAPC (ED1).....	163
6.2.36	LN: PTGAPC2 Name: GAPC (ED1).....	164
6.2.37	LN: MAPGAPC1 Name: GAPC (ED1).....	165
6.2.38	LN: BSTGGIO1 Name: GGPIO (ED1).....	165
6.2.39	LN: LNPTRC1 Name: PTRC (ED1).....	167
6.2.40	LN: LNLPDIF1 Name: PDIF (ED1).....	167
6.2.41	LN: LNHPDIF1 Name: PDIF (ED1).....	169
6.2.42	LN: PHIPTOC2 Name: PTOC (ED1).....	169
6.2.43	LN: PHLPTOC2 Name: PTOC (ED1).....	170
6.2.44	LN: SSIMG1 Name: SIMG (ED1).....	171
6.2.45	LN: TR2PTRC1 Name: PTRC (ED1).....	171
6.2.46	LN: T2PTTR1 Name: PTTR (ED1).....	172
6.2.47	LN: MNSPTOC1 Name: PTOC (ED1).....	173
6.2.48	LN: MNSPTOC2 Name: PTOC (ED1).....	174
6.2.49	LN: PHPTUV1 Name: PTUV (ED1).....	175
6.2.50	LN: PHPTUV2 Name: PTUV (ED1).....	176

6.2.51	LN: PHPTUV3 Name: PTUV (ED1).....	177
6.2.52	LN: PHPTOV1 Name: PTOV (ED1)	178
6.2.53	LN: PHPTOV2 Name: PTOV (ED1)	179
6.2.54	LN: PHPTOV3 Name: PTOV (ED1)	180
6.2.55	LN: VMMXU1 Name: MMXU (ED1)	181
6.2.56	LN: VAVMMXU1 Name: MMXU (ED1).....	181
6.2.57	LN: COL1PTOC1 Name: PTOC (ED1)	182
6.2.58	LN: CUB1PTOC1 Name: PTOC (ED1)	182
6.2.59	LN: HCUB1PTOC1 Name: PTOC (ED1).....	183
6.2.60	LN: SRC1PTOC1 Name: PTOC (ED1)	184
6.2.61	LN: DPHLPTOC1 Name: PTOC (ED1)	185
6.2.62	LN: DPHHPTOC1 Name: PTOC (ED1).....	186
6.2.63	LN: DEFLPTOC1 Name: PTOC (ED1).....	187
6.2.64	LN: MFADPSDE1 Name: PSDE (ED1).....	188
6.2.65	LN: DEFHPTOC1 Name: PTOC (ED1).....	189
6.2.66	LN: ROVPTOV1 Name: PTOV (ED1)	190
6.2.67	LN: ROVPTOV2 Name: PTOV (ED1)	190
6.2.68	LN: ROVPTOV3 Name: PTOV (ED1)	191
6.2.69	LN: PSPTUV1 Name: PTUV (ED1).....	192
6.2.70	LN: PSPTUV2 Name: PTUV (ED1).....	192
6.2.71	LN: NSPTOV1 Name: PTOV (ED1)	193
6.2.72	LN: NSPTOV2 Name: PTOV (ED1)	194
6.2.73	LN: FRPTRC1 Name: PTRC (ED1)	194
6.2.74	LN: FRPTRC2 Name: PTRC (ED1)	195
6.2.75	LN: FRPTRC3 Name: PTRC (ED1)	195
6.2.76	LN: CCBRBRF2 Name: RBRF (ED1).....	195
6.2.77	LN: SSIMG2 Name: SIMG (ED1)	197
6.2.78	LN: DEFLPTOC2 Name: PTOC (ED1).....	197
6.2.79	LN: INTRPTEF1 Name: PTEF (ED1)	198
6.2.80	LN: EFLPTOC2 Name: PTOC (ED1)	199
6.2.81	LN: EFIPTOC1 Name: PTOC (ED1)	200
6.2.82	LN: DPHLPTOC2 Name: PTOC (ED1)	200
6.2.83	LN: SECRSYN1 Name: RSYN (ED1)	201
6.2.84	LN: RESVMMXU1 Name: MMXU (ED1)	203
6.2.85	LN: RVAVMMXU1 Name: MMXU (ED1)	203
6.2.86	LN: RVMAMMXU1 Name: MMXU (ED1)	204
6.2.87	LN: RVMIMMXU1 Name: MMXU (ED1)	204
6.2.88	LN: VMMXU2 Name: MMXU (ED1)	205
6.2.89	LN: VAVMMXU2 Name: MMXU (ED1).....	205
6.2.90	LN: FRPTRC4 Name: PTRC (ED1)	206
6.2.91	LN: PHIZ1 Name: PHIZ (ED1)	206
6.2.92	LN: EFHPTOC2 Name: PTOC (ED1).....	206
6.2.93	LN: LSHDPTRC1 Name: PTRC (ED1).....	207
6.2.94	LN: LSHDPTRC2 Name: PTRC (ED1).....	208
6.2.95	LN: LSHDPTRC3 Name: PTRC (ED1).....	208
6.2.96	LN: LSHDPTRC4 Name: PTRC (ED1).....	209
6.2.97	LN: LSHDPTRC5 Name: PTRC (ED1).....	210
6.2.98	LN: FRPTRC5 Name: PTRC (ED1)	210

6.2.99	LN: FRPTRC6 Name: PTRC (ED1)	211
6.2.100	LN: RESVMMXU2 Name: MMXU (ED1)	211
6.2.101	LN: RVAVMMXU2 Name: MMXU (ED1)	211
6.2.102	LN: RVMAMMXU2 Name: MMXU (ED1)	212
6.2.103	LN: RVMIMMXU2 Name: MMXU (ED1)	212
6.2.104	LN: RESTVTR2 Name: TVTR (ED1).....	212
6.2.105	LN: DPHHPTOC2 Name: PTOC (ED1).....	213
6.2.106	LN: DEFLPTOC3 Name: PTOC (ED1).....	214
6.2.107	LN: WPSDE1 Name: PSDE (ED1).....	215
6.2.108	LN: HAEFPPTOC1 Name: PTOC (ED1)	216
6.2.109	LN: PHPTUC1 Name: PTUC (ED1)	217
6.2.110	LN: DARREC1 Name: RREC (ED1)	217
6.2.111	LN: CMHAI1 Name: MHAI (ED1)	223
6.2.112	LN: VMHAI1 Name: MHAI (ED1)	224
6.2.113	LN: PH2QVVR1 Name: QVVR (ED1)	225
6.2.114	LN: PH3QVVR1 Name: QVVR (ED1)	225
6.2.115	LN: LOFLPTUC2 Name: PTUC (ED1)	226
6.2.116	LN: MPTRC1 Name: PTRC (ED1)	226
6.2.117	LN: CMMXU2 Name: MMXU (ED1)	226
6.2.118	LN: CAVMMXU2 Name: MMXU (ED1)	227
6.2.119	LN: CMAMMXU2 Name: MMXU (ED1)	227
6.2.120	LN: CMIMMXU2 Name: MMXU (ED1)	228
6.2.121	LN: OEPVPH1 Name: PVPH (ED1)	228
6.2.122	LN: OEPVPH2 Name: PVPH (ED1)	229
6.2.123	LN: PHPTUC2 Name: PTUC (ED1)	231
6.2.124	LN: PHLPTOC3 Name: PTOC (ED1).....	231
6.2.125	LN: PHHPTOC3 Name: PTOC (ED1)	232
6.2.126	LN: NSPTOC3 Name: PTOC (ED1).....	233
6.2.127	LN: PHPTUC3 Name: PTUC (ED1)	234
6.2.128	LN: EFLPTOC3 Name: PTOC (ED1)	235
6.2.129	LN: EFHPTOC3 Name: PTOC (ED1).....	235
6.2.130	LN: TR3PTRC1 Name: PTRC (ED1)	236
6.2.131	LN: ARCSARC11 Name: SARC (ED1)	237
6.2.132	LN: CCBRBRF3 Name: RBRF (ED1).....	237
6.2.133	LN: SSIMG3 Name: SIMG (ED1)	238
6.2.134	LN: TCSSCBR3 Name: SCBR (ED1).....	239
6.2.135	LN: TRPPTRC3 Name: PTRC (ED1)	239
6.2.136	LN: IL1TCTR3 Name: TCTR (ED1).....	240
6.2.137	LN: RESTVTR1 Name: TVTR (ED1).....	240
6.2.138	LN: UL1TVTR1 Name: TVTR (ED1)	241
6.2.139	LN: CMMXU3 Name: MMXU (ED1)	241
6.2.140	LN: CAVMMXU3 Name: MMXU (ED1)	242
6.2.141	LN: CMAMMXU3 Name: MMXU (ED1)	242
6.2.142	LN: CMIMMXU3 Name: MMXU (ED1)	243
6.2.143	LN: IL1TCTR1 Name: TCTR (ED1).....	243
6.2.144	LN: RESTCTR1 Name: TCTR (ED1)	244
6.2.145	LN: XARGGIO130 Name: GGIO (ED1).....	244
6.2.146	LN: IL1TCTR2 Name: TCTR (ED1).....	245

6.2.147	LN: RESTCTR2 Name: TCTR (ED1)	246
6.2.148	LN: UL1TVTR2 Name: TVTR (ED1)	246
6.2.149	LN: UL1TVTR3 Name: TVTR (ED1)	247
6.2.150	LN: RESCMMXU2 Name: MMXU (ED1).....	247
6.2.151	LN: RCAVMMXU2 Name: MMXU (ED1).....	248
6.2.152	LN: RCMAMMXU2 Name: MMXU (ED1).....	248
6.2.153	LN: RCMIMMXU2 Name: MMXU (ED1).....	249
6.2.154	LN: XRGGIO130 Name: GGIO (ED1)	249
6.2.155	LN: MAPGAPC2 Name: GACP (ED1).....	251
6.2.156	LN: MAPGAPC3 Name: GACP (ED1).....	251
6.2.157	LN: MAPGAPC4 Name: GACP (ED1).....	252
6.2.158	LN: MAPGAPC5 Name: GACP (ED1).....	253
6.2.159	LN: MAPGAPC6 Name: GACP (ED1).....	254
6.2.160	LN: XRGGIO105 Name: GGIO (ED1)	254
6.2.161	LN: XRGGIO110 Name: GGIO (ED1)	256
6.2.162	LN: TRPPTRC4 Name: PTRC (ED1)	258
6.2.163	LN: TRPPTRC5 Name: PTRC (ED1)	258
6.2.164	LN: LLN0 Name: LLN0 (ED1).....	259
6.2.165	LN: CBCSWI1 Name: CSWI (ED1)	260
6.2.166	LN: CBCSWI2 Name: CSWI (ED1)	260
6.2.167	LN: CBCSWI3 Name: CSWI (ED1)	261

7 Common Data Class Extensions 262

7.1	New common data classes	262
7.2	Extented data classes ED1	262
7.2.1	ABBIED600_Rev5_ENG_SP_DNPPort_ED2	262
7.2.2	ABBIED600_Rev3_SPG_SP_authority_ED2	262
7.2.3	ABBIED600_Rev4_SPS_LocClk_ED2.....	262
7.2.4	ABBIED600_Rev3_ENG_SP_CommPort_ED2	263
7.2.5	ABBIED600_Rev5_ENG_SP_I5CPort_ED2	263
7.2.6	ABBIED600_Rev5_ENC_mod_control_ED2	263
7.2.7	ABBIED600_Rev5_ENC_Mod_OnTestblockedOff_FD_ED2	264
7.2.8	ABBIED600_Rev5_ENC_Mod_OnTestOff__ED2	264
7.2.9	ABBIED600_Rev5_ENC_Mod_OnTest_ED2	264
7.2.10	ABBIED600_Rev5_ENC_Mod_OnOff_FD_ED2.....	265
7.2.11	ABBIED600_Rev5_ENC_Mod_OnOff_ED2	265
7.2.12	ABBIED600_Rev4_ENC_Mod_On_Blk_ED2	265
7.2.13	ABBIED600_Rev10_INS_error	265
7.2.14	ABBIED600_Rev10_ENS_error.....	266
7.2.15	ABBIED600_Rev8_LPL_LD0_LNN0_ED2	266
7.2.16	ABBIED600_Rev3_LPL_mms.....	266
7.2.17	ABBIED600_Rev7_LPL_MBS_ED2.....	267
7.2.18	ABBIED600_Rev5_LPL_tms_ED2.....	267
7.2.19	ABBIED600_Rev3_LPL_LD0_LINF_ED2	267
7.2.20	ABBIED600_Rev5_LPL_LD0_LTIM.....	268
7.2.21	ABBIED600_Rev2_LPL_LD0_LDEV_ED2	268
7.2.22	ABBIED600_Rev2_LPL_1tsg_setCal	269

7.2.23	ABBIED600_Rev5_DPL_ied	269
7.2.24	ABBIED600_Rev7_DPL_eeprom_2_ED2	270
7.2.25	ABBIED600_Rev4_DPL_eeprom_1_ED2	270
7.2.26	ABBIED600_Rev4_DPC_simple	270
7.2.27	ABBIED600_Rev8_DPC_control	271
7.2.28	ABBIED600_Rev1_LPL_RSS	271

8 Enum type extensions **272**

8.1	New Enum types	272
8.1.1	ABBIED600_Rev1_CtlModelKind_StatusDirect	272
8.1.2	ABBIED600_Rev1_OpModSG	272
8.1.3	ABBIED600_Rev1_CpySG	272
8.1.4	ABBIED600_Rev1_CtlModelKind_Status	272
8.1.5	ABBIED600_Rev1_SetSvMaxDI	272
8.1.6	ABBIED600_Rev1_BlkMod	273
8.1.7	ABBIED600_Rev1_HzSet	273
8.1.8	ABBIED600_Rev1_PhRotSet	273
8.1.9	ABBIED600_Rev1_PhOrdSet	273
8.1.10	ABBIED600_Rev1_DmdAvMod	273
8.1.11	ABBIED600_Rev1_dmdltrv	273
8.1.12	ABBIED600_Rev1_ModRemCtl	274
8.1.13	ABBIED600_Rev3_Languages	274
8.1.14	ABBIED600_Rev3_LanguageFiles	274
8.1.15	ABBIED600_Rev1_FormatTime	275
8.1.16	ABBIED600_Rev1_FormatDate	275
8.1.17	ABBIED600_Rev1_NamingConvention	275
8.1.18	ABBIED600_Rev3_DefaultView	276
8.1.19	ABBIED600_Rev1_WhmiMod	276
8.1.20	ABBIED600_Rev1_SLDSymbolFormat	276
8.1.21	ABBIED600_Rev1_InUseMod	276
8.1.22	ABBIED600_Rev1_SetVsb	276
8.1.23	ABBIED600_Rev1_AlmLedSt	276
8.1.24	ABBIED600_Rev2_LedMode	276
8.1.25	ABBIED600_Rev2_LedColor	276
8.1.26	ABBIED600_Rev5_SyncSrc	277
8.1.27	ABBIED600_Rev3_TmSrc	277
8.1.28	ABBIED600_Rev1_PTPTmSrc	278
8.1.29	ABBIED600_Rev1_PTPClkAcc	278
8.1.30	ABBIED600_Rev1_MeasMod	278
8.1.31	ABBIED600_Rev1_StrPhSel	278
8.1.32	ABBIED600_Rev1_buTripMode	279
8.1.33	ABBIED600_Rev1_StrLtcMod	279
8.1.34	ABBIED600_Rev1_TrOutMod	279
8.1.35	ABBIED600_Rev1_OpModStUp	279
8.1.36	ABBIED600_Rev1_TestProKind	279
8.1.37	ABBIED600_Rev1_EnvTmpMod	282
8.1.38	ABBIED600_Rev1_AResSigSel	282
8.1.39	ABBIED600_Rev1_OutConn	282

8.1.40	ABBIED600_Rev8_AuthAcs	283
8.1.41	ABBIED600_Rev1_AuthAcsLev.....	284
8.1.42	ABBIED600_Rev1_FibMod.....	284
8.1.43	ABBIED600_Rev1_SerMod	284
8.1.44	ABBIED600_Rev1_BaudRate.....	284
8.1.45	ABBIED600_Rev1_EthPortMod	284
8.1.46	ABBIED600_Rev1_OpModComp	284
8.1.47	ABBIED600_Rev1_AlmMod.....	285
8.1.48	ABBIED600_Rev1_BstMode.....	285
8.1.49	ABBIED600_Rev1_CTCConnTyp	285
8.1.50	ABBIED600_Rev1_WndSel	285
8.1.51	ABBIED600_Rev2_Wnd1Typ	285
8.1.52	ABBIED600_Rev2_Wnd2Typ	285
8.1.53	ABBIED600_Rev1_ClkNum	286
8.1.54	ABBIED600_Rev3_ZroAEIm.....	286
8.1.55	ABBIED600_Rev1_TestSpvnKind	286
8.1.56	ABBIED600_Rev1_TrvClcMod	288
8.1.57	ABBIED600_Rev1_BCMod	288
8.1.58	ABBIED600_Rev2_VSel	288
8.1.59	ABBIED600_Rev1_TypTmRs	288
8.1.60	ABBIED600_Rev1_CubAlmMod	288
8.1.61	ABBIED600_Rev1_FuLoc.....	288
8.1.62	ABBIED600_Rev1_RcdUnbPhKind	288
8.1.63	ABBIED600_Rev1_OpModEF	289
8.1.64	ABBIED600_Rev1_VResSigSel.....	289
8.1.65	ABBIED600_Rev1_OpModProHz	289
8.1.66	ABBIED600_Rev1_DirMod2	289
8.1.67	ABBIED600_Rev1_OpModTEF	289
8.1.68	ABBIED600_Rev1_OpModSC	289
8.1.69	ABBIED600_Rev1_OpModCtrl	290
8.1.70	ABBIED600_Rev1_EnergSt.....	290
8.1.71	ABBIED600_Rev2_TestCtlKind	290
8.1.72	ABBIED600_Rev1_PHIZMod.....	291
8.1.73	ABBIED600_Rev1_AutoManMod	291
8.1.74	ABBIED600_Rev2_OpModATCC	291
8.1.75	ABBIED600_Rev1_ManBlkType.....	291
8.1.76	ABBIED600_Rev1_TimerOn.....	292
8.1.77	ABBIED600_Rev1_OpModATCC	292
8.1.78	ABBIED600_Rev1_AlmReas	292
8.1.79	ABBIED600_Rev1_FllwFlt	292
8.1.80	ABBIED600_Rev1_ParUnits	293
8.1.81	ABBIED600_Rev1_OpModPh.....	293
8.1.82	ABBIED600_Rev1_RecOp.....	293
8.1.83	ABBIED600_Rev1_TermPrio	293
8.1.84	ABBIED600_Rev1_ProCrdMod	293
8.1.85	ABBIED600_Rev1_AutoIniCnd	293
8.1.86	ABBIED600_Rev1_DmdWinMod	294
8.1.87	ABBIED600_Rev2_PhSv	294

8.1.88	ABBIED600_Rev2_VVaTyp	294
8.1.89	ABBIED600_Rev1_TrModPQ	294
8.1.90	ABBIED600_Rev1_ObsPerSel	294
8.1.91	ABBIED600_Rev1_TestOthKind	294
8.1.92	ABBIED600_Rev1_VPhSel	295
8.1.93	ABBIED600_Rev2_AGrpTyp	295
8.1.94	ABBIED600_Rev1_OpModArc	295
8.1.95	ABBIED600_Rev1_EFAlg	295
8.1.96	ABBIED600_Rev1_EFAlgASel	296
8.1.97	ABBIED600_Rev4_TestProRlKind	296
8.1.98	ABBIED600_Rev1_PhVMeas	297
8.1.99	ABBIED600_Rev1_TermVSel	297
8.1.100	ABBIED600_Rev1_ARtgSec	297
8.1.101	ABBIED600_Rev2_ConnType	297
8.1.102	ABBIED600_Rev1_AnInpType	297
8.1.103	ABBIED600_Rev1_SenInMod	298
8.1.104	ABBIED600_Rev3_CmdRsp	298
8.1.105	ABBIED600_Rev2_LocRem	299
8.1.106	ABBIED600_Rev1_LocRemMod	299
8.1.107	ABBIED600_Rev1_StaAuth	299
8.1.108	ABBIED600_Rev1_EStoRte	299
8.1.109	ABBIED600_Rev1_EStoMod	299
8.1.110	ABBIED600_Rev4_RadrChNum	299
8.2	5.2 Extended Enum types	301
8.2.1	5.2.1 ABBIED600_Rev1_HealthKind	301
8.2.2	5.2.2 ABBIED600_Rev1_PhaseFaultDirectionKind	301
8.2.3	5.2.3 ABBIED600_Rev1_CurveCharKind	301
8.2.4	5.2.4 ABBIED600_Rev20_TstOutKind	303
8.2.5	5.2.5 ABBIED600_Rev21_ProFcn	309
8.2.6	5.2.6 ABBIED600_Rev2_CmdQual	314
8.2.7	5.2.7 ABBIED600_Rev1_PolarizingQuantityKind	314
8.2.8	5.2.8 ABBIED600_Rev1_LiveDeadModeKind	314
8.2.9	5.2.9 ABBIED600_Rev2_AutoReclosingKind	315
8.2.10	5.2.10 ABBIED600_Rev1_FaultLoopKind	315
8.2.11	5.2.11 ABBIED600_Rev1_I3CCls2Frame	315
	9 Control Block Extensions	316
	None	316

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
A	22 Jan. 2008	REF615 v1.0.1
B	4 Nov. 2008	REF615 v1.1, RED615 v1.1
C	16 Mar. 2009	REF615 v2.0
D	1 July 2009	615 series v2.0.3
E	20 Nov. 2009	615 series v2.0.3 Logical node updates.
F	6 July 2010	615 series v3.0
G	6 Mar 2012	615 series v4.0
H	7 Feb 2013	615 series v4.1
I	23 Oct 2013	615 series v5.0
J	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



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

Safety warning

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



Do not make any changes to the 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
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 ED
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 eX tra I nformation f or T esting
SCADA	S upervision, C ontrol a nd D ata A cquisition
SLD	S ingle L ine D iagram
XML	eX tensible M arkup L anguage
Y	Y es

2.2 Definitions

Operational State	The unit is active and it is protecting and controlling the switch-gear.
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) – Mappings 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)
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.CMIMMMXU1	CMMXU1,3I(1)
	LD0.RESCMMXU1	RESCKMMXU1,In(1),Io(1)
	LD0.RCAVMMXU1	RESCKMMXU1,In(1),Io(1)
	LD0.RCMAMMXU1	RESCKMMXU1,In(1),Io(1)
	LD0.RCMIMMMXU1	RESCKMMXU1,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.PEMAMMMXU1	PEMMXU1,P,E(1)
	LD0.PEMIMMMXU1	PEMMXU1,P,E(1)
	LD0.FMMXU1	FMMXU1,f(1)
	LD0.RESVMMXU1	RESVMMXU1,Vn(1),Uo(1)
	LD0.RVAVMMXU1	RESVMMXU1,Vn(1),Uo(1)
	LD0.RVMAMMMXU1	RESVMMXU1,Vn(1),Uo(1)
	LD0.RVMIMMMXU1	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.RVMAMMMXU2	RESVMMXU2,Vn(2),Uo(2)
	LD0.RVMIMMMXU2	RESVMMXU2,Vn(2),Uo(2)
	LD0.WMMXU1	WPWDE1,32N(1),Po>->(1)
	LD0.CMMXU2	CMMXU2,3I(2)
	LD0.CAVMMXU2	CMMXU2,3I(2)
	LD0.CMAMMMXU2	CMMXU2,3I(2)
	LD0.CMIMMMXU2	CMMXU2,3I(2)
	LD0.CMMXU3	CMMXU3,3I(3)
	LD0.CAVMMXU3	CMMXU3,3I(3)
	LD0.CMAMMMXU3	CMMXU3,3I(3)
	LD0.CMIMMMXU3	CMMXU3,3I(3)
	LD0.RESCMMXU2	RESCMMXU2,In(2),Io(2)
	LD0.RCAVMMXU2	RESCMMXU2,In(2),Io(2)
	LD0.RCMAMMMXU2	RESCMMXU2,In(2),Io(2)
	LD0.RCMIMMMXU2	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),dloLo>(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),dloHi>(1)

	LD0.LREFPDIF1	LREFPNDF1,87NL(1),dloLo>(1)
	LD0.HIAPDIF1	HIAPDIF1,87A(1),dHi_A>(1)
	LD0.HIBPDIF1	HIBPDIF1,87B(1),dHi_B>(1)
	LD0.HICPDIF1	HICPDIF1,87C(1),dHi_C>(1)
	LD0.MHPDIF1	MPDIF1
	LD0.MLPDIF1	MPDIF1
	LD0.TR3LPDIF1	TR3PTDF1,87T3(1),3dl>3W(1)
	LD0.TR3HPDIF1	TR3PTDF1,87T3(1),3dl>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	LD0INTRPTEF1	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.ARCPLOC11	ARCSARC1,50L/50NL(1),ARC(1)
	LD0.ARCPLOC12	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 related 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.LDPRRLRC1	LDPRRLRC1
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.DEFHDIR1	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 (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only, ED1 only
Beh	ABBIED600_Rev2_ENS_beh_e	Behaviour	E	REx615 MICS:2014>IEC 61850-7-4:2003
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	AB-BIED600_Rev3_LPL_LD0_LINF_ED2_e	Name plate	E	REx615 MICS:2014>IEC 61850-7-4:2003
BayNam	ABBIED600_Rev1_VSG_2_20_e	Name of the bay	E	REx615 MICS:2014>IEC 61850-7-4:2003
CfgNam	ABBIED600_Rev1_VSG_1_20_e	IED configuration name	E	REx615 MICS:2014>IEC 61850-7-4:2003
DevRev	ABBIED600_Rev1_VSG_1_64_e	Product version number	E	REx615 MICS:2014>IEC 61850-7-4:2003
CstNam	ABBIED600_Rev1_VSG_2_64_e	Name of the customer	E	REx615 MICS:2014>IEC 61850-7-4:2003
CstStNam	ABBIED600_Rev1_VSG_2_64_e	Name of the state	E	REx615 MICS:2014>IEC 61850-7-4:2003
CstStreNam	ABBIED600_Rev1_VSG_2_64_e	Name of the street	E	REx615 MICS:2014>IEC 61850-7-4:2003
CstHouNum	ABBIED600_Rev1_VSG_2_64_e	Number of the house	E	REx615 MICS:2014>IEC 61850-7-4:2003
CstZip	ABBIED600_Rev1_VSG_2_20_e	ZIP/Postal code	E	REx615 MICS:2014>IEC 61850-7-4:2003
CstCityNam	ABBIED600_Rev1_VSG_2_64_e	City/Province	E	REx615 MICS:2014>IEC 61850-7-4:2003
CstCntyNam	ABBIED600_Rev1_VSG_2_64_e	Name of the country	E	REx615 MICS:2014>IEC 61850-7-4:2003
CardNam	AB-BIED600_Rev7_DPL_eeprom_2_ED2_e	Card information	E	REx615 MICS:2014>IEC 61850-7-4:2003
TestStald	ABBIED600_Rev1_LPL_VSS_dU_20_e	Testing	E	REx615 MICS:2014>IEC 61850-7-4:2003
Hwld	ABBIED600_Rev1_LPL_VSS_1_20_e	HW module	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.2 LN: LDEV1 Name: LDEV (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only, ED1 only
Beh	ABBIED600_Rev2_ENS_beh_e	Behaviour	E	REx615 MICS:2014>IEC 61850-7-4:2003

Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	AB-BIED600_Rev2_LPL_LD0_LDEV_ED2_e	Name plate	E	REx615 MICS:2014>IEC 61850-7-4:2003
IPAddr	ABBIED600_Rev1_VSG_2_20_e	IP address for rear port(s)	E	REx615 MICS:2014>IEC 61850-7-4:2003
IPAddrSub-Ntw	ABBIED600_Rev1_VSG_2_20_e	Subnet mask for rear port(s)	E	REx615 MICS:2014>IEC 61850-7-4:2003
IPAddrGtw	ABBIED600_Rev1_VSG_2_20_e	Default gateway for rear port(s)	E	REx615 MICS:2014>IEC 61850-7-4:2003
IPAddrFrT	ABBIED600_Rev1_VSG_1_20_e	IP address for front port (fixed)	E	REx615 MICS:2014>IEC 61850-7-4:2003
Mac1	ABBIED600_Rev1_VSG_1_20_e	Mac address for rear port(s)	E	REx615 MICS:2014>IEC 61850-7-4:2003
Mac2	ABBIED600_Rev1_VSG_1_20_e	Mac address for front port	E	REx615 MICS:2014>IEC 61850-7-4:2003
SwrNum	ABBIED600_Rev1_LPL_VSS_1_20	SW		
OrdrNum	ABBIED600_Rev1_LPL_VSS_1_20	Order number		
WrmStrDet	ABBIED600_Rev1_SPS	Warm start 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 overflow	E	REx615 MICS:2014>IEC 61850-7-4:2003
MeasLstOv	ABBIED600_Rev1_SPS_e	Meas overflow	E	REx615 MICS:2014>IEC 61850-7-4:2003
ChgAckCnt	ABBIED600_Rev1_INS_retain_e	Number of composition changes	E	REx615 MICS:2014>IEC 61850-7-4:2003
ChgFlg	ABBIED600_Rev2_INC_control_int_e	Composition has changed	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Wrm-StrCmd	ABBIED600_Rev2_SPC_control_e	Reset device	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
BlkMod	ABBIED600_Rev2_ENG_SP_BlkMod_e	Global blocking mode selection	E	REx615 MICS:2014>IEC 61850-7-4:2003
HzSetSel	ABBIED600_Rev2_ENG_SP_HzSet_e	Rated frequency	E	REx615 MICS:2014>IEC 61850-7-4:2003

PhRotSet	ABBIED600_Rev2_ENG_SP_PhRotSet_e	Phase rotation order	E	REx615 MICS:2014>IEC 61850-7-4:2003
DiVThres	ABBIED600_Rev1_ING_SP_e	Threshold voltage	E	REx615 MICS:2014>IEC 61850-7-4:2003
DiOscThres	ABBIED600_Rev1_ING_SP_1_e	Input osc. level	E	REx615 MICS:2014>IEC 61850-7-4:2003
DiOscHys	ABBIED600_Rev1_ING_SP_1_e	Input osc. hyst	E	REx615 MICS:2014>IEC 61850-7-4:2003
SetSeld	ABBIED600_Rev1_SPS_e	Settings reservation	E	REx615 MICS:2014>IEC 61850-7-4:2003
SetChg	ABBIED600_Rev1_SPS_e	Settings change	E	REx615 MICS:2014>IEC 61850-7-4:2003
PhOrdMod	ABBIED600_Rev2_ENG_SP_PhOrdSet_e	Phase connection order	E	REx615 MICS:2014>IEC 61850-7-4:2003
ACrvSatPnt	ABBIED600_Rev1_ASG_SP_f_e	Overcurrent IDMT saturation point	E	REx615 MICS:2014>IEC 61850-7-4:2003
AD-mdAvMod	ABBIED600_Rev2_ENG_SP_DmdAvMod_e	A demand Av mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
MtrDmdltrv	ABBIED600_Rev2_ENG_SP_dmdltrv_e	Demand interval	E	REx615 MICS:2014>IEC 61850-7-4:2003
HzAdpEna	ABBIED600_Rev1_SPG_SP_e	Frequency adaptivity	E	REx615 MICS:2014>IEC 61850-7-4:2003
ModRemCtl	ABBIED600_Rev2_ENG_SP_ModRemCtrl_e	Remote force	E	REx615 MICS:2014>IEC 61850-7-4:2003
LangSel	ABBIED600_Rev4_ENG_SP_Languages_e	Language selection	E	REx615 MICS:2014>IEC 61850-7-4:2003
Contr	ABBIED600_Rev1_ING_SP_1_e	Contrast selection	E	REx615 MICS:2014>IEC 61850-7-4:2003
NumFrm	ABBIED600_Rev1_ING_SP_1_e	NUMf	E	REx615 MICS:2014>IEC 61850-7-4:2003
LgtLivTm	ABBIED600_Rev1_ING_SP_1_e	Backligh timeout	E	REx615 MICS:2014>IEC 61850-7-4:2003
TmFrm	ABBIED600_Rev2_ENG_SP_FormatTime_e	Time format	E	REx615 MICS:2014>IEC 61850-7-4:2003
DateFrm	ABBIED600_Rev2_ENG_SP_FormatDate_e	Date format	E	REx615 MICS:2014>IEC 61850-7-4:2003
NamConvn	ABBIED600_Rev2_ENG_SP_NamingConvention_e	FB naming convention	E	REx615 MICS:2014>IEC 61850-7-4:2003
DftVw	ABBIED600_Rev4_ENG_SP_DefaultView_e	Default view	E	REx615 MICS:2014>IEC 61850-7-4:2003
AcsMod	ABBIED600_Rev2_ENG_SP_WhmiMod_e	Web HMI mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
ConnEx-pTm	ABBIED600_Rev1_ING_SP_1_e	Web HMI timeout	E	REx615 MICS:2014>IEC 61850-7-4:2003
EvtLstClr	ABBIED600_Rev2_SPC_control_e	Event clear	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security

SLDSym-Frm	ABBIED600_Rev2_ENG_SP_SLDSymbol-Format_e	SLD symbol format	E	REx615 MICS:2014>IEC 61850-7-4:2003
ScrDITms	ABBIED600_Rev1_ING_SP_1_e	Autoscroll delay	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClsDIMod	ABBIED600_Rev2_ENG_SP_InUse_e	CB close delay mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClsDITms	ABBIED600_Rev1_ING_SP_1_e	CB close delay	E	REx615 MICS:2014>IEC 61850-7-4:2003
SetVsb	ABBIED600_Rev2_ENG_SP_SetVsb_e	Setting visibility	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.3 LN: GSELPRT1 Name: LPRT (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev2_ENC_Mod_Of-fOn_FD	Mode		status-only,direct-with-normal-security,ED1 only
Beh	ABBIED600_Rev2_ENS_beh_e	Behaviour	E	REx615 MICS:2014>IEC 61850-7-4:2003
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	AB-BIED600_Rev1_LPL_InNs_1_e	Name plate	E	REx615 MICS:2014>IEC 61850-7-4:2003
FrRxCnt	ABBIED600_Rev1_INS	Received msgs		
FrTxCnt	ABBIED600_Rev1_INS	Transmitted Messages		
RxStCnt	ABBIED600_Rev1_INS	Received State Changes		
RxSeqCnt	ABBIED600_Rev1_INS	Received Sequence Number		
RxTestCnt	ABBIED600_Rev1_INS	Received frames with Test bit		
StWrnCnt	ABBIED600_Rev1_INS	State warnings		
SeqWrnCnt	ABBIED600_Rev1_INS	Sequence warnings		
RxTmOutCnt	ABBIED600_Rev1_INS	Receiver Timeouts		
ConfErrCnt	ABBIED600_Rev1_INS	Received ConfRev mismatches		
NdsComCnt	ABBIED600_Rev1_INS	Received frames with NeedsCommissioning bit		
DSErrCnt	ABBIED600_Rev1_INS	Errors in received dataset		
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	REx615 MICS:2014>IEC 61850-7-4:2003
CntRs	ABBIED600_Rev2_SPC_control_e	Goose counters reset	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.1.4 LN: MMSLPRT1 Name: LPRT (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only,ED1 only
Beh	ABBIED600_Rev2_ENS_beh_e	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev3_LPL_mms_e	Name plate		
SucConn	ABBIED600_Rev1_INS	Successful Connections		
FailConn	ABBIED600_Rev1_INS	Failed Connections		
ConcCnt	ABBIED600_Rev1_INS	Concludes		
TxAbtCnt	ABBIED600_Rev1_INS	Sent Aborts		
RxAbtCnt	ABBIED600_Rev1_INS	Received Aborts		
TxRejCnt	ABBIED600_Rev1_INS	Sent Rejects		
RxRqCnt	ABBIED600_Rev1_INS	Received Request		
FailRqCnt	ABBIED600_Rev1_INS	Failed Requests		
SucReaCnt	ABBIED600_Rev1_INS	Successful Reads		
FailReaCnt	ABBIED600_Rev1_INS	Failed Reads		
SucWrCnt	ABBIED600_Rev1_INS	Successful Writes		
FailWrCnt	ABBIED600_Rev1_INS	Failed Writes		
InfRpCnt	ABBIED600_Rev1_INS	Information Reports		
ActConnCnt	ABBIED600_Rev1_INS	Active Connections		
UnitMod	ABBIED600_Rev2_ENG_SP_Unit-Mod	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	REx615 MICS:2014>IEC 61850-7-4:2003
CliIP1	ABBIED600_Rev1_LPL_VSS_1_20	Client 1 IP address		
CliIP2	ABBIED600_Rev1_LPL_VSS_1_20	Client 2 IP address		
CliIP3	ABBIED600_Rev1_LPL_VSS_1_20	Client 3 IP address		
CliIP4	ABBIED600_Rev1_LPL_VSS_1_20	Client 4 IP address		
CliIP5	ABBIED600_Rev1_LPL_VSS_1_20	Client 5 IP address		

6.1.5 LN: GNRLLTMM1 Name: LTMM (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only, ED1 only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev5_LPL_tms_ED2	Name plate		ED1 only
TmAcc	ABBIED600_Rev1_INS	Number of significant bits in the Fraction Of Second in the time accuracy part of the time stamp.		
TmSrc	ABBIED600_Rev1_LPL_VSS_1_64	Current time source		
TmSyn	ABBIED600_Rev1_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-address)	E	REx615 MICS:2014>IEC 61850-7-4:2003
TmSrcSt	ABBIED600_Rev4_ENS_TmSrc_e	Current time source	E	REx615 MICS:2014>IEC 61850-7-4:2003
DomId	ABBIED600_Rev1_ING_SP_1_e	The domain is identified by an integer, the domain-Number, in the range of 0 to 255.	E	REx615 MICS:2014>IEC 61850-7-4:2003
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	REx615 MICS:2014>IEC 61850-7-4:2003
Wrn	ABBIED600_Rev1_SPS_e	Warning	E	REx615 MICS:2014>IEC 61850-7-4:2003
PTPTmSrc	AB-BIED600_Rev2_ENS_PTPTmSrc_e	GrandMaster timeSource enum according to PTPv2	E	REx615 MICS:2014>IEC 61850-7-4:2003
PTPClkAcc	AB-BIED600_Rev2_ENS_PTPClkAcc_e	Grandmaster clockAccuracy enum according to PTPv2	E	REx615 MICS:2014>IEC 61850-7-4:2003
LocClkAcc	ABBIED600_Rev1_INS_e	Local clock accuracy (master + IED synch accuracy)[us]	E	REx615 MICS:2014>IEC 61850-7-4:2003
MaxDevAcc	ABBIED600_Rev1_INS_e	Maximum deviation of the Local synch accuracy [us]	E	REx615 MICS:2014>IEC 61850-7-4:2003
PTPPrio1	ABBIED600_Rev1_ING_SP_1_e	PTP priority 1, in the range of 0 to 255.	E	REx615 MICS:2014>IEC 61850-7-4:2003
PTPPrio2	ABBIED600_Rev1_ING_SP_1_e	PTP priority 2, in the range of 0 to 255.	E	REx615 MICS:2014>IEC 61850-7-4:2003

MstrId	ABBIED600_Rev1_VSG_1_20_e	Grandmaster Identity octet string according to PTPv2	E	REx615 MICS:2014>IEC 61850-7-4:2003
IPAd-drSNTP1	ABBIED600_Rev1_VSG_2_20_e	IP address for SNTP primary server	E	REx615 MICS:2014>IEC 61850-7-4:2003
IPAd-drSNTP2	ABBIED600_Rev1_VSG_2_20_e	IP address for SNTP secondary server	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.6 LN: GNRLLTIM1 Name: LTIM (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_ENC_Mod_On	Mode		status-only,ED1 only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	AB-BIED600_Rev5_LPL_LD0_LTIM	Name plate		ED1 only
TmDT	ABBIED600_Rev1_SPS	Indicating if DST is in effect		
TmOfsTmm	ABBIED600_Rev1_ING_SP_1	Offset of local time from UTC in minutes		
TmUseDT	ABBIED600_Rev1_SPG_SG	DST usage setting		
TmChgDT	ABBIED600_Rev2_TSG_SP_set-Cal	Local time of next change to daylight saving time		
TmChgST	ABBIED600_Rev2_TSG_SP_set-Cal	Local time of next change to standard time		
TmSys	ABBIED600_Rev1_VSG_2_20_e	System time	E	REx615 MICS:2014>IEC 61850-7-4:2003
DateSys	ABBIED600_Rev1_VSG_2_20_e	System date	E	REx615 MICS:2014>IEC 61850-7-4:2003
TmOfsDT	ABBIED600_Rev1_ING_SP_1_e	Daylight saving time offset	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.7 LN: TCSSCBR1 Name: SCBR (ED1)

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		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
OpDITmms	ABBIED600_Rev1_ING_SP_1_e	Operate Delay Time		
RsDITmms	ABBIED600_Rev1_ING_SP_1_e	Reset Delay Time		

CircAlm	ABBIED600_Rev1_SPS_e	Alarm		
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs		status-only,direct-with-normal-security
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.8 LN: TCSSCBR2 Name: SCBR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
OpDITmms	ABBIED600_Rev1_ING_SP_1_e	Operate Delay Time		
RsDITmms	ABBIED600_Rev1_ING_SP_1_e	Reset Delay Time		
CircAlm	ABBIED600_Rev1_SPS_e	Alarm		
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs		status-only,direct-with-normal-security
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.9 LN: TPGAPC1 Name: GACP (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Str		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Op		ED1 only
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
SPCSO1	ABBIED600_Rev1_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple	Q2		status-only
PlsTmms	ABBIED600_Rev1_ING_SP_1_e	Minimum pulse time		

6.1.10 LN: TPGAPC2 Name: GACP (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only

Str	ABBIED600_Rev1_ACD_simple	Str		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Op		ED1 only
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
SPCSO1	ABBIED600_Rev1_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple	Q2		status-only
PlsTmms	ABBIED600_Rev1_ING_SP_1_e	Minimum pulse time		

6.1.11 LN: TPGAPC3 Name: GACP (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Str		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Op		ED1 only
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
SPCSO1	ABBIED600_Rev1_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple	Q2		status-only
PlsTmms	ABBIED600_Rev1_ING_SP_1_e	Minimum pulse time		

6.1.12 LN: TPGAPC4 Name: GACP (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Str		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Op		ED1 only
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
SPCSO1	ABBIED600_Rev1_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple	Q2		status-only
PlsTmms	ABBIED600_Rev1_ING_SP_1_e	Minimum pulse time		

6.1.13 LN: FLTRFRC1 Name: RFRC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD_e	Mode	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh_e	Behaviour	E	REx615 MICS:2014>IEC 61850-7-4:2003

Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_InNs_1_e	Name plate	E	REx615 MICS:2014>IEC 61850-7-4:2003
Hz	ABBIED600_Rev3_MV_simple_i_e	Frequency	E	REx615 MICS:2014>IEC 61850-7-4:2003
FltPtR	ABBIED600_Rev3_MV_simple_i	Fault resistance		
FltDiskm	ABBIED600_Rev3_MV_simple_i_e	Distance to fault measured in pu	E	REx615 MICS:2014>IEC 61850-7-4:2003
OpCnt	ABBIED600_Rev1_INS_e	time	E	REx615 MICS:2014>IEC 61850-7-4:2003
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
InOp	ABBIED600_Rev1_SPS	Operate input for triggering		
InStr	ABBIED600_Rev1_SPS	Start input for triggering		
RcdRs	ABBIED600_Rev2_SPC_control	Reset fault records		status-only,direct-with-normal-security
SelRow	ABBIED600_Rev2_INC_all_rights	Select recording		status-only,direct-with-normal-security
TrgSet	ABBIED600_Rev2_ENG_SP_Trigger_Set	Triggering mode		
AMeasMod	ABBIED600_Rev2_ENG_SP_Meas-Mod	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)		
MaxTmpRI	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		
InCBIr	ABBIED600_Rev1_SPS	Breaker open status		
CBCIrtm	ABBIED600_Rev3_MV_simple_i	Breaker clear time		

6.1.14 LN: MDSOPT1 Name: SOPT (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_Of-fOn_FD_e	Mode	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh_e	Behaviour	E	REx615 MICS:2014>IEC 61850-7-4:2003
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_InNs_1_e	Name plate	E	REx615 MICS:2014>IEC 61850-7-4:2003

Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
OpTmh	ABBIED600_Rev1_INS_e	OPR_TIME	E	REx615 MICS:2014>IEC 61850-7-4:2003
OpTmRs	ABBIED600_Rev2_SPC_control	MDSOPT1 operation t		status-only,direct-with-normal-security
OpTmWrn	ABBIED600_Rev1_SPS_e	Operation time warning	E	REx615 MICS:2014>IEC 61850-7-4:2003
OpTmAlm	ABBIED600_Rev1_SPS_e	Operation time alarm	E	REx615 MICS:2014>IEC 61850-7-4:2003
TmOp	ABBIED600_Rev1_SPS	Indicates that operation time is running		
OpWrnTmh	ABBIED600_Rev1_ING_SP_1_e	Warning value for operation time supervision	E	REx615 MICS:2014>IEC 61850-7-4:2003
OpAlmTmh	ABBIED600_Rev1_ING_SP_1_e	Alarm value for operation time supervision	E	REx615 MICS:2014>IEC 61850-7-4:2003
IniOpTmh	ABBIED600_Rev1_ING_SP_1	Initial value for operation time supervision		
OpActTmh	ABBIED600_Rev1_ING_SP_1	Time of day when alarm and warning will occur		
OpActMod	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

6.1.15 LN: CCSPVC1 Name: SPVC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD_e	Mode	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh_e	Behaviour	E	REx615 MICS:2014>IEC 61850-7-4:2003
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_InNs_1_e	Name plate	E	REx615 MICS:2014>IEC 61850-7-4:2003
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrVal	ABBIED600_Rev3_ASG_SP_i_e	Minimum operate current differential level	E	REx615 MICS:2014>IEC 61850-7-4:2003
MaxOpA	ABBIED600_Rev3_ASG_SP_i	Block of the function at high phase current		

FailACirc	ABBIED600_Rev1_ACT_simple	Detection of current circuit failure		
SigFailAlm	ABBIED600_Rev1_SPS	Alarm		
TestSpvn	ABBIED600_Rev1_ENC_TestSpvn	Test control for outputs		status-only,direct-with-normal-security
DifAClc	ABBIED600_Rev3_WYE_res_simple_i_e	IDIFF	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.16 LN: HIPDIF1 Name: PDIF (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
LoSet	ABBIED600_Rev3_ASG_SG_i	Low operate value, percentage of the nominal current		
MinOp-Tmms	ABBIED600_Rev1_ING_SG	Minimum Operate Time		
RsDIT-mms	ABBIED600_Rev1_ING_SP	Reset Delay Time		
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
TestPro	ABBIED600_Rev1_ENC_TestPro_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.1.17 LN: HZCCSPVC1 Name: SPVC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD_e	Mode	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh_e	Behaviour	E	REx615 MICS:2014>IEC 61850-7-4:2003
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_InNs_1_e	Name plate	E	REx615 MICS:2014>IEC 61850-7-4:2003
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
Alm	ABBIED600_Rev1_SPS_e	Alarm output	E	REx615 MICS:2014>IEC 61850-7-4:2003

StrVal	ABBIED600_Rev3_ASG_SG_i_e	Start value	E	REx615 MICS:2014>IEC 61850-7-4:2003
AlmTmms	ABBIED600_Rev1_ING_SG	Alarm delay time		
RsDITmms	ABBIED600_Rev1_ING_SP_e	Reset Delay Time	E	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_ENC_TstOut	Test control for outputs		status-only,direct-with-normal-security
AMeasMod	ABBIED600_Rev2_ENG_SP_Meas-Mod	Selects used measurement mode		
AlmOutMod	ABBIED600_Rev2_ENG_SP_TrOut-Mod	Select the operation mode for alarm output		
LORs	ABBIED600_Rev2_SPC_control	Reset lockout alarm		status-only,direct-with-normal-security

6.1.18 LN: HZCCASPVC1 Name: SPVC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD_e	Mode	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh_e	Behaviour	E	REx615 MICS:2014>IEC 61850-7-4:2003
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_InNs_1_e	Name plate	E	REx615 MICS:2014>IEC 61850-7-4:2003
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
Alm	ABBIED600_Rev1_SPS_e	Alarm output	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrVal	ABBIED600_Rev3_ASG_SG_i_e	Start value	E	REx615 MICS:2014>IEC 61850-7-4:2003
AlmTmms	ABBIED600_Rev1_ING_SG	Alarm delay time		
RsDITmms	ABBIED600_Rev1_ING_SP_e	Reset Delay Time	E	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_ENC_TstOut	Test control for outputs		status-only,direct-with-normal-security
AMeasMod	ABBIED600_Rev2_ENG_SP_Meas-Mod	Selects used measurement mode		
AlmOutMod	ABBIED600_Rev2_ENG_SP_TrOut-Mod	Select the operation mode for alarm output		
LORs	ABBIED600_Rev2_SPC_control	Reset lockout alarm		status-only,direct-with-normal-security

6.1.19 LN: HZCCBSPVC1 Name: SPVC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD_e	Mode	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh_e	Behaviour	E	REx615 MICS:2014>IEC 61850-7-4:2003
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_InNs_1_e	Name plate	E	REx615 MICS:2014>IEC 61850-7-4:2003
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
Alm	ABBIED600_Rev1_SPS_e	Alarm output	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrVal	ABBIED600_Rev3_ASG_SG_i_e	Start value	E	REx615 MICS:2014>IEC 61850-7-4:2003
AlmTmms	ABBIED600_Rev1_ING_SG	Alarm delay time		
RsDITmms	ABBIED600_Rev1_ING_SP_e	Reset Delay Time	E	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_ENC_TstOut	Test control for outputs		status-only,direct-with-normal-security
AMeasMod	ABBIED600_Rev2_ENG_SP_Meas-Mod	Selects used measurement mode		
AlmOutMod	ABBIED600_Rev2_ENG_SP_TrOut-Mod	Select the operation mode for alarm output		
LORs	ABBIED600_Rev2_SPC_control	Reset lockout alarm		status-only,direct-with-normal-security

6.1.20 LN: HZCCCSPVC1 Name: SPVC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD_e	Mode	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh_e	Behaviour	E	REx615 MICS:2014>IEC 61850-7-4:2003
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_InNs_1_e	Name plate	E	REx615 MICS:2014>IEC 61850-7-4:2003
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
Alm	ABBIED600_Rev1_SPS_e	Alarm output	E	REx615 MICS:2014>IEC 61850-7-4:2003

StrVal	ABBIED600_Rev3_ASG_SG_i_e	Start value	E	REx615 MICS:2014>IEC 61850-7-4:2003
AlmTmms	ABBIED600_Rev1_ING_SG	Alarm delay time		
RsDITmms	ABBIED600_Rev1_ING_SP_e	Reset Delay Time	E	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_ENC_TstOut	Test control for outputs		status-only,direct-with-normal-security
AMeasMod	ABBIED600_Rev2_ENG_SP_Meas-Mod	Selects used measurement mode		
AlmOutMod	AB-BIED600_Rev2_ENG_SP_TrOut-Mod	Select the operation mode for alarm output		
LORs	ABBIED600_Rev2_SPC_control	Reset lockout alarm		status-only,direct-with-normal-security

6.1.21 LN: MVGAPC1 Name: GACP (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Start		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Operate		ED1 only
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
Ind3	ABBIED600_Rev1_SPS	IN3		
Ind4	ABBIED600_Rev1_SPS	IN4		
Ind5	ABBIED600_Rev1_SPS	IN5		
Ind6	ABBIED600_Rev1_SPS	IN6		
Ind7	ABBIED600_Rev1_SPS	IN7		
Ind8	ABBIED600_Rev1_SPS	IN8		
SPCSO1	ABBIED600_Rev1_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple	Q2		status-only
SPCSO3	ABBIED600_Rev1_SPC_simple	Q3		status-only
SPCSO4	ABBIED600_Rev1_SPC_simple	Q4		status-only
SPCSO5	ABBIED600_Rev1_SPC_simple	Q5		status-only
SPCSO6	ABBIED600_Rev1_SPC_simple	Q6		status-only
SPCSO7	ABBIED600_Rev1_SPC_simple	Q7		status-only
SPCSO8	ABBIED600_Rev1_SPC_simple	Q8		status-only

6.1.22 LN: ISWGAPC1 Name: GACP (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	AB-BIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Start		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Operate		ED1 only
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	REx615 MICS:2014>IEC 61850-7-4:2003
Out2Conn	ABBIED600_Rev1_SPG_SP_e	Connect In with Out2 signal	E	REx615 MICS:2014>IEC 61850-7-4:2003
Out3Conn	ABBIED600_Rev1_SPG_SP_e	Connect In with Out3 signal	E	REx615 MICS:2014>IEC 61850-7-4:2003
Out4Conn	ABBIED600_Rev1_SPG_SP_e	Connect In with Out4 signal	E	REx615 MICS:2014>IEC 61850-7-4:2003
Out5Conn	ABBIED600_Rev1_SPG_SP_e	Connect In with Out5 signal	E	REx615 MICS:2014>IEC 61850-7-4:2003
Out6Conn	ABBIED600_Rev1_SPG_SP_e	Connect In with Out6 signal	E	REx615 MICS:2014>IEC 61850-7-4:2003
Out7Conn	ABBIED600_Rev1_SPG_SP_e	Connect In with Out7 signal	E	REx615 MICS:2014>IEC 61850-7-4:2003
Out8Conn	ABBIED600_Rev1_SPG_SP_e	Connect In with Out8 signal	E	REx615 MICS:2014>IEC 61850-7-4:2003
Out9Conn	ABBIED600_Rev1_SPG_SP_e	Connect In with Out9 signal	E	REx615 MICS:2014>IEC 61850-7-4:2003
Out10Conn	ABBIED600_Rev1_SPG_SP_e	Connect In with Out10 signal	E	REx615 MICS:2014>IEC 61850-7-4:2003
Out11Conn	ABBIED600_Rev1_SPG_SP_e	Connect In with Out11 signal	E	REx615 MICS:2014>IEC 61850-7-4:2003
Out12Conn	ABBIED600_Rev1_SPG_SP_e	Connect In with Out12 signal	E	REx615 MICS:2014>IEC 61850-7-4:2003
Out13Conn	ABBIED600_Rev1_SPG_SP_e	Connect In with Out13 signal	E	REx615 MICS:2014>IEC 61850-7-4:2003
Out14Conn	ABBIED600_Rev1_SPG_SP_e	Connect In with Out14 signal	E	REx615 MICS:2014>IEC 61850-7-4:2003
Out15Conn	ABBIED600_Rev1_SPG_SP_e	Connect In with Out15 signal	E	REx615 MICS:2014>IEC 61850-7-4:2003
Out16Conn	ABBIED600_Rev1_SPG_SP_e	Connect In with Out16 signal	E	REx615 MICS:2014>IEC 61850-7-4:2003
Out17Conn	ABBIED600_Rev1_SPG_SP_e	Connect In with Out17 signal	E	REx615 MICS:2014>IEC 61850-7-4:2003
Out18Conn	ABBIED600_Rev1_SPG_SP_e	Connect In with Out18 signal	E	REx615 MICS:2014>IEC 61850-7-4:2003
Out19Conn	ABBIED600_Rev1_SPG_SP_e	Connect In with Out19 signal	E	REx615 MICS:2014>IEC 61850-7-4:2003
Out20Conn	ABBIED600_Rev1_SPG_SP_e	Connect In with Out20 signal	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.23 LN: OSWGAPC1 Name: GAPC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only

Str	ABBIED600_Rev1_ACD_simple	Start		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Operate		ED1 only
Ind1	ABBIED600_Rev1_SPS_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	REx615 MICS:2014>IEC 61850-7-4:2003
Ind2Conn	ABBIED600_Rev1_SPG_SP_e	Connect input In2	E	REx615 MICS:2014>IEC 61850-7-4:2003
Ind3Conn	ABBIED600_Rev1_SPG_SP_e	Connect input In3	E	REx615 MICS:2014>IEC 61850-7-4:2003
Ind4Conn	ABBIED600_Rev1_SPG_SP_e	Connect input In4	E	REx615 MICS:2014>IEC 61850-7-4:2003
Ind5Conn	ABBIED600_Rev1_SPG_SP_e	Connect input In5	E	REx615 MICS:2014>IEC 61850-7-4:2003
Ind6Conn	ABBIED600_Rev1_SPG_SP_e	Connect input In6	E	REx615 MICS:2014>IEC 61850-7-4:2003
Ind7Conn	ABBIED600_Rev1_SPG_SP_e	Connect input In7	E	REx615 MICS:2014>IEC 61850-7-4:2003
Ind8Conn	ABBIED600_Rev1_SPG_SP_e	Connect input In8	E	REx615 MICS:2014>IEC 61850-7-4:2003
Ind9Conn	ABBIED600_Rev1_SPG_SP_e	Connect input In9	E	REx615 MICS:2014>IEC 61850-7-4:2003
Ind10Conn	ABBIED600_Rev1_SPG_SP_e	Connect input In10	E	REx615 MICS:2014>IEC 61850-7-4:2003
Ind11Conn	ABBIED600_Rev1_SPG_SP_e	Connect input In11	E	REx615 MICS:2014>IEC 61850-7-4:2003

Ind12Conn	ABBIED600_Rev1_SPG_SP_e	Connect input In12	E	REx615 MICS:2014>IEC 61850-7-4:2003
Ind13Conn	ABBIED600_Rev1_SPG_SP_e	Connect input In13	E	REx615 MICS:2014>IEC 61850-7-4:2003
Ind14Conn	ABBIED600_Rev1_SPG_SP_e	Connect input In14	E	REx615 MICS:2014>IEC 61850-7-4:2003
Ind15Conn	ABBIED600_Rev1_SPG_SP_e	Connect input In15	E	REx615 MICS:2014>IEC 61850-7-4:2003
Ind16Conn	ABBIED600_Rev1_SPG_SP_e	Connect input In16	E	REx615 MICS:2014>IEC 61850-7-4:2003
Ind17Conn	ABBIED600_Rev1_SPG_SP_e	Connect input In17	E	REx615 MICS:2014>IEC 61850-7-4:2003
Ind18Conn	ABBIED600_Rev1_SPG_SP_e	Connect input In18	E	REx615 MICS:2014>IEC 61850-7-4:2003
Ind19Conn	ABBIED600_Rev1_SPG_SP_e	Connect input In19	E	REx615 MICS:2014>IEC 61850-7-4:2003
Ind20Conn	ABBIED600_Rev1_SPG_SP_e	Connect input In20	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.24 LN: SELGAPC1 Name: GACP (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Start		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Operate		ED1 only
Ind1	ABBIED600_Rev1_SPS_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_Out-Conn_e	Connect OUT_1 signal	E	REx615 MICS:2014>IEC 61850-7-4:2003
Out2Conn	ABBIED600_Rev2_ENG_SP_Out-Conn_e	Connect OUT_2 signal	E	REx615 MICS:2014>IEC 61850-7-4:2003
Out3Conn	ABBIED600_Rev2_ENG_SP_Out-Conn_e	Connect OUT_3 signal	E	REx615 MICS:2014>IEC 61850-7-4:2003
Out4Conn	ABBIED600_Rev2_ENG_SP_Out-Conn_e	Connect OUT_4 signal	E	REx615 MICS:2014>IEC 61850-7-4:2003
Out5Conn	ABBIED600_Rev2_ENG_SP_Out-Conn_e	Connect OUT_5 signal	E	REx615 MICS:2014>IEC 61850-7-4:2003
Out6Conn	ABBIED600_Rev2_ENG_SP_Out-Conn_e	Connect OUT_6 signal	E	REx615 MICS:2014>IEC 61850-7-4:2003
Out7Conn	ABBIED600_Rev2_ENG_SP_Out-Conn_e	Connect OUT_7 signal	E	REx615 MICS:2014>IEC 61850-7-4:2003
Out8Conn	ABBIED600_Rev2_ENG_SP_Out-Conn_e	Connect OUT_8 signal	E	REx615 MICS:2014>IEC 61850-7-4:2003
Out9Conn	ABBIED600_Rev2_ENG_SP_Out-Conn_e	Connect OUT_9 signal	E	REx615 MICS:2014>IEC 61850-7-4:2003
Out10Conn	ABBIED600_Rev2_ENG_SP_Out-Conn_e	Connect OUT_10 signal	E	REx615 MICS:2014>IEC 61850-7-4:2003
Out11Conn	ABBIED600_Rev2_ENG_SP_Out-Conn_e	Connect OUT_11 signal	E	REx615 MICS:2014>IEC 61850-7-4:2003

Out12Conn	ABBIED600_Rev2_ENG_SP_Out-Conn_e	Connect OUT_12 signal	E	REx615 MICS:2014>IEC 61850-7-4:2003
Out13Conn	ABBIED600_Rev2_ENG_SP_Out-Conn_e	Connect OUT_13 signal	E	REx615 MICS:2014>IEC 61850-7-4:2003
Out14Conn	ABBIED600_Rev2_ENG_SP_Out-Conn_e	Connect OUT_14 signal	E	REx615 MICS:2014>IEC 61850-7-4:2003
Out15Conn	ABBIED600_Rev2_ENG_SP_Out-Conn_e	Connect OUT_15 signal	E	REx615 MICS:2014>IEC 61850-7-4:2003
Out16Conn	ABBIED600_Rev2_ENG_SP_Out-Conn_e	Connect OUT_16 signal	E	REx615 MICS:2014>IEC 61850-7-4:2003
Out17Conn	ABBIED600_Rev2_ENG_SP_Out-Conn_e	Connect OUT_17 signal	E	REx615 MICS:2014>IEC 61850-7-4:2003
Out18Conn	ABBIED600_Rev2_ENG_SP_Out-Conn_e	Connect OUT_18 signal	E	REx615 MICS:2014>IEC 61850-7-4:2003
Out19Conn	ABBIED600_Rev2_ENG_SP_Out-Conn_e	Connect OUT_19 signal	E	REx615 MICS:2014>IEC 61850-7-4:2003
Out20Conn	ABBIED600_Rev2_ENG_SP_Out-Conn_e	Connect OUT_20 signal	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.25 LN: GSAL1 Name: GSAL (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only, ED1 only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
OpCntRs	ABBIED600_Rev1_INC_simple_int	Resetable Security Violations counter		status-only
NumCntRs	ABBIED600_Rev1_INS	Number of counter resets		
AuthFail	ABBIED600_Rev1_SEC	Authorization failures detected		
AcsCtlFail	ABBIED600_Rev1_SEC	Access control failures detected		
SvcViol	ABBIED600_Rev1_SEC	Service privilege violations		
Ina	ABBIED600_Rev1_SEC	Inactive associations		
AuthRem	ABBIED600_Rev3_SPG_SP_authority_ED2_e	Remote authorization	E	REx615 MICS:2014>IEC 61850-7-4:2003
AuthAcsAdm	ABBIED600_Rev10_ENS_AuthAcs_e	Viewer access	E	REx615 MICS:2014>IEC 61850-7-4:2003
AuthAcsEng	ABBIED600_Rev10_ENS_AuthAcs_e	Operator access	E	REx615 MICS:2014>IEC 61850-7-4:2003
AuthAcsOper	ABBIED600_Rev10_ENS_AuthAcs_e	Engineer access	E	REx615 MICS:2014>IEC 61850-7-4:2003
AuthAcsVw	ABBIED600_Rev10_ENS_AuthAcs_e	Administrator access	E	REx615 MICS:2014>IEC 61850-7-4:2003

AuthAcsLev	ABBIED600_Rev2_ENG_SP_AuthAcsLev_e	Logging level	E	REx615 MICS:2014>IEC 61850-7-4:2003
RemUpdEna	ABBIED600_Rev1_SPG_SP_AccessAdmW_e	Remote Update Enable	E	REx615 MICS:2014>IEC 61850-7-4:2003
AuthRemAdm	ABBIED600_Rev1_VSG_2_64_e	Remote authorization (administrator)	E	REx615 MICS:2014>IEC 61850-7-4:2003
AuthRemEng	ABBIED600_Rev1_VSG_2_64_e	Remote authorization (engineer)	E	REx615 MICS:2014>IEC 61850-7-4:2003
AuthRemOpr	ABBIED600_Rev1_VSG_2_64_e	Remote authorization (operator)	E	REx615 MICS:2014>IEC 61850-7-4:2003
AuthRemVw	ABBIED600_Rev1_VSG_2_64_e	Remote authorization (viewer)	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.26 LN: CBPSOF1 Name: PSOF (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD_e	Mode	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh_e	Behaviour	E	REx615 MICS:2014>IEC 61850-7-4:2003
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_InNs_1_e	Name plate	E	REx615 MICS:2014>IEC 61850-7-4:2003
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Op	ABBIED600_Rev1_ACT_simple_e	Operate	E	REx615 MICS:2014>IEC 61850-7-4:2003
InStr	ABBIED600_Rev1_SPS	Start from function to be accelerated by SOTF		
InDIstr	ABBIED600_Rev1_SPS	Start from function to be accelerated with delay by SOTF		
InCBCIs	ABBIED600_Rev1_SPS	External enabling of SOTF by CB close command		
RsDITmms	ABBIED600_Rev1_ING_SG_e	Reset Delay Time	E	REx615 MICS:2014>IEC 61850-7-4:2003
OpDITmms	ABBIED600_Rev1_ING_SG_e	Operate Delay Time	E	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_ENC_TstOut	Test control for outputs		status-only,direct-with-normal-security

6.1.27 LN: SERLCCH1 Name: LCCH (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

Mod	ABBIED600_Rev1_ENC_Mod_On-Off_NoBlk	SERLCCH1 on/off		status-only,direct-with-normal-security,ED1 only
Beh	ABBIED600_Rev2_ENS_beh	SERLCCH1 on/off		
Health	ABBIED600_Rev4_ENS_health	SERLCCH1 Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_InNs_1	SERLCCH1		ED1 only
FibMod	ABBIED600_Rev2_ENG_SP_Fib-Mod_e	Fiber mode for COM1	E	REx615 MICS:2014>IEC 61850-7-4:2003
SerMod	ABBIED600_Rev2_ENG_SP_Ser-Mod_e	Serial mode for COM1	E	REx615 MICS:2014>IEC 61850-7-4:2003
CTSDITmms	ABBIED600_Rev1_ING_SP_1_e	CTS delay for COM1	E	REx615 MICS:2014>IEC 61850-7-4:2003
RTSDITmms	ABBIED600_Rev1_ING_SP_1_e	RTS delay for COM1	E	REx615 MICS:2014>IEC 61850-7-4:2003
SerBaudRte	ABBIED600_Rev1_ENG_SP_BaudRate_e	Baudrate for COM1	E	REx615 MICS:2014>IEC 61850-7-4:2003
CharRxCnt	ABBIED600_Rev1_INS_e	Number of characters received	E	REx615 MICS:2014>IEC 61850-7-4:2003
FrRxCnt	ABBIED600_Rev1_INS_e	Number of successfully received link frames	E	REx615 MICS:2014>IEC 61850-7-4:2003
RxErrCnt	ABBIED600_Rev1_INS_e	Number of discarded link frames	E	REx615 MICS:2014>IEC 61850-7-4:2003
FrTxCnt	ABBIED600_Rev1_INS_e	Number of transmitted link frames	E	REx615 MICS:2014>IEC 61850-7-4:2003
CDLosCnt	ABBIED600_Rev1_INS_e	CD lost	E	REx615 MICS:2014>IEC 61850-7-4:2003
CollCnt	ABBIED600_Rev1_INS_e	Collision	E	REx615 MICS:2014>IEC 61850-7-4:2003
CTSTmOut	ABBIED600_Rev1_INS_e	CTS timeout	E	REx615 MICS:2014>IEC 61850-7-4:2003
TxTmOutCnt	ABBIED600_Rev1_INS_e	Transmission timeout	E	REx615 MICS:2014>IEC 61850-7-4:2003
PtyErrCnt	ABBIED600_Rev1_INS_e	Number of parity errors	E	REx615 MICS:2014>IEC 61850-7-4:2003
OvRunErr	ABBIED600_Rev1_INS_e	Number of overrun errors	E	REx615 MICS:2014>IEC 61850-7-4:2003
FrErrCnt	ABBIED600_Rev1_INS_e	Framing errors	E	REx615 MICS:2014>IEC 61850-7-4:2003
ChLiv	ABBIED600_Rev1_SPS_simple	Channel Live		
LnkLiv	ABBIED600_Rev1_SPS_simple_e	Link Live	E	REx615 MICS:2014>IEC 61850-7-4:2003
CntRs	ABBIED600_Rev2_SPC_control_e	Reset Counters	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.1.28 LN: SERLCCH2 Name: LCCH (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
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Mod	ABBIED600_Rev1_ENC_Mod_On-Off_NoBlk	SERLCCH2 on/off		status-only,direct-with-normal-security,ED1 only
Beh	ABBIED600_Rev2_ENS_beh	SERLCCH2 on/off		
Health	ABBIED600_Rev4_ENS_health	SERLCCH2 Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_InNs_1	SERLCCH2		ED1 only
FibMod	ABBIED600_Rev2_ENG_SP_Fib-Mod_e	Fiber mode for COM2	E	REx615 MICS:2014>IEC 61850-7-4:2003
SerMod	ABBIED600_Rev2_ENG_SP_Ser-Mod_e	Serial mode for COM2	E	REx615 MICS:2014>IEC 61850-7-4:2003
CTSDITmms	ABBIED600_Rev1_ING_SP_1_e	CTS delay for COM2	E	REx615 MICS:2014>IEC 61850-7-4:2003
RTSDITmms	ABBIED600_Rev1_ING_SP_1_e	RTS delay for COM2	E	REx615 MICS:2014>IEC 61850-7-4:2003
SerBaudRte	ABBIED600_Rev1_ENG_SP_BaudRate_e	Baudrate for COM2	E	REx615 MICS:2014>IEC 61850-7-4:2003
CharRxCnt	ABBIED600_Rev1_INS_e	Number of characters received	E	REx615 MICS:2014>IEC 61850-7-4:2003
FrRxCnt	ABBIED600_Rev1_INS_e	Number of successfully received link frames	E	REx615 MICS:2014>IEC 61850-7-4:2003
RxErrCnt	ABBIED600_Rev1_INS_e	Number of discarded link frames	E	REx615 MICS:2014>IEC 61850-7-4:2003
FrTxCnt	ABBIED600_Rev1_INS_e	Number of transmitted link frames	E	REx615 MICS:2014>IEC 61850-7-4:2003
CDLosCnt	ABBIED600_Rev1_INS_e	CD lost	E	REx615 MICS:2014>IEC 61850-7-4:2003
CollCnt	ABBIED600_Rev1_INS_e	Collision	E	REx615 MICS:2014>IEC 61850-7-4:2003
CTSTmOut	ABBIED600_Rev1_INS_e	CTS timeout	E	REx615 MICS:2014>IEC 61850-7-4:2003
TxTmOutCnt	ABBIED600_Rev1_INS_e	Transmission timeout	E	REx615 MICS:2014>IEC 61850-7-4:2003
PtyErrCnt	ABBIED600_Rev1_INS_e	Number of parity errors	E	REx615 MICS:2014>IEC 61850-7-4:2003
OvRunErr	ABBIED600_Rev1_INS_e	Number of overrun errors	E	REx615 MICS:2014>IEC 61850-7-4:2003
FrErrCnt	ABBIED600_Rev1_INS_e	Framing errors	E	REx615 MICS:2014>IEC 61850-7-4:2003
ChLiv	ABBIED600_Rev1_SPS_simple	Channel Live		
LnkLiv	ABBIED600_Rev1_SPS_simple_e	Link Live	E	REx615 MICS:2014>IEC 61850-7-4:2003
CntRs	ABBIED600_Rev2_SPC_control_e	Reset Counters	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.1.29 LN: RCHLCCH1 Name: LCCH (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only,ED1 only

Beh	ABBIED600_Rev2_ENS_beh	Physical Channel behavior		
NamPlt	ABBIED600_Rev1_LPL_InNs_1	RCHLCCH1		ED1 only
ChLiv	ABBIED600_Rev1_SPS	Physical channel status of port A		
RedChLiv	ABBIED600_Rev1_SPS	Physical channel status of port B		
LnkLiv	ABBIED600_Rev1_SPS_e	Link status of port A	E	REx615 MICS:2014>IEC 61850-7-4:2003
RedLnkLiv	ABBIED600_Rev1_SPS_e	Link status of port B	E	REx615 MICS:2014>IEC 61850-7-4:2003
RedCfg	ABBIED600_Rev1_ENG_SP_ChRed-Kind_e	Redundant mode	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.30 LN: SCHLCCH1 Name: LCCH (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only,ED1 only
Beh	ABBIED600_Rev2_ENS_beh	Physical Channel behavior		
NamPlt	ABBIED600_Rev1_LPL_InNs_1	SCHLCCH1		ED1 only
ChLiv	ABBIED600_Rev1_SPS	Physical channel status		
LnkLiv	ABBIED600_Rev1_SPS_e	Link status	E	REx615 MICS:2014>IEC 61850-7-4:2003
PortMod	ABBIED600_Rev3_ENG_SP_Eth-PortMod_e	Ethernet port mode	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.31 LN: SCHLCCH2 Name: LCCH (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only,ED1 only
Beh	ABBIED600_Rev2_ENS_beh	Physical Channel behavior		
NamPlt	ABBIED600_Rev1_LPL_InNs_1	SCHLCCH2		ED1 only
ChLiv	ABBIED600_Rev1_SPS	Physical channel status		
LnkLiv	ABBIED600_Rev1_SPS_e	Link status	E	REx615 MICS:2014>IEC 61850-7-4:2003
PortMod	ABBIED600_Rev3_ENG_SP_Eth-PortMod_e	Ethernet port mode	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.32 LN: SCHLCCH3 Name: LCCH (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mod		status-only,ED1 only
Beh	ABBIED600_Rev2_ENS_beh	Physical Channel behavior		

NamPlt	ABBIED600_Rev1_LPL_InNs_1	SCHLCCH3		ED1 only
ChLiv	ABBIED600_Rev1_SPS	Physical channel status		
LnkLiv	ABBIED600_Rev1_SPS_e	Link status	E	REx615 MICS:2014>IEC 61850-7-4:2003
PortMod	ABBIED600_Rev3_ENG_SP_Eth-PortMod_e	Ethernet port mode	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.33 LN: MVGAPC2 Name: GACP (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Start		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Operate		ED1 only
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
Ind3	ABBIED600_Rev1_SPS	IN3		
Ind4	ABBIED600_Rev1_SPS	IN4		
Ind5	ABBIED600_Rev1_SPS	IN5		
Ind6	ABBIED600_Rev1_SPS	IN6		
Ind7	ABBIED600_Rev1_SPS	IN7		
Ind8	ABBIED600_Rev1_SPS	IN8		
SPCSO1	ABBIED600_Rev1_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple	Q2		status-only
SPCSO3	ABBIED600_Rev1_SPC_simple	Q3		status-only
SPCSO4	ABBIED600_Rev1_SPC_simple	Q4		status-only
SPCSO5	ABBIED600_Rev1_SPC_simple	Q5		status-only
SPCSO6	ABBIED600_Rev1_SPC_simple	Q6		status-only
SPCSO7	ABBIED600_Rev1_SPC_simple	Q7		status-only
SPCSO8	ABBIED600_Rev1_SPC_simple	Q8		status-only

6.1.34 LN: SRGAPC1 Name: GACP (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	AB-BIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Start		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Operate		ED1 only

Ind1	ABBIED600_Rev1_SPS	S1		
Ind2	ABBIED600_Rev1_SPS	S2		
Ind3	ABBIED600_Rev1_SPS	S3		
Ind4	ABBIED600_Rev1_SPS	S4		
Ind5	ABBIED600_Rev1_SPS	S5		
Ind6	ABBIED600_Rev1_SPS	S6		
Ind7	ABBIED600_Rev1_SPS	S7		
Ind8	ABBIED600_Rev1_SPS	S8		
SPCSO1	ABBIED600_Rev1_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple	Q2		status-only
SPCSO3	ABBIED600_Rev1_SPC_simple	Q3		status-only
SPCSO4	ABBIED600_Rev1_SPC_simple	Q4		status-only
SPCSO5	ABBIED600_Rev1_SPC_simple	Q5		status-only
SPCSO6	ABBIED600_Rev1_SPC_simple	Q6		status-only
SPCSO7	ABBIED600_Rev1_SPC_simple	Q7		status-only
SPCSO8	ABBIED600_Rev1_SPC_simple	Q8		status-only
Rs1	ABBIED600_Rev2_SPC_control_e	R1	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Rs2	ABBIED600_Rev2_SPC_control_e	R2	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Rs3	ABBIED600_Rev2_SPC_control_e	R3	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Rs4	ABBIED600_Rev2_SPC_control_e	R4	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Rs5	ABBIED600_Rev2_SPC_control_e	R5	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Rs6	ABBIED600_Rev2_SPC_control_e	R6	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Rs7	ABBIED600_Rev2_SPC_control_e	R7	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Rs8	ABBIED600_Rev2_SPC_control_e	R8	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.1.35 LN: SRGAPC2 Name: GACP (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	AB-BIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Start		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Operate		ED1 only
Ind1	ABBIED600_Rev1_SPS	S1		

Ind2	ABBIED600_Rev1_SPS	S2		
Ind3	ABBIED600_Rev1_SPS	S3		
Ind4	ABBIED600_Rev1_SPS	S4		
Ind5	ABBIED600_Rev1_SPS	S5		
Ind6	ABBIED600_Rev1_SPS	S6		
Ind7	ABBIED600_Rev1_SPS	S7		
Ind8	ABBIED600_Rev1_SPS	S8		
SPCSO1	ABBIED600_Rev1_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple	Q2		status-only
SPCSO3	ABBIED600_Rev1_SPC_simple	Q3		status-only
SPCSO4	ABBIED600_Rev1_SPC_simple	Q4		status-only
SPCSO5	ABBIED600_Rev1_SPC_simple	Q5		status-only
SPCSO6	ABBIED600_Rev1_SPC_simple	Q6		status-only
SPCSO7	ABBIED600_Rev1_SPC_simple	Q7		status-only
SPCSO8	ABBIED600_Rev1_SPC_simple	Q8		status-only
Rs1	ABBIED600_Rev2_SPC_control_e	R1	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Rs2	ABBIED600_Rev2_SPC_control_e	R2	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Rs3	ABBIED600_Rev2_SPC_control_e	R3	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Rs4	ABBIED600_Rev2_SPC_control_e	R4	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Rs5	ABBIED600_Rev2_SPC_control_e	R5	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Rs6	ABBIED600_Rev2_SPC_control_e	R6	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Rs7	ABBIED600_Rev2_SPC_control_e	R7	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Rs8	ABBIED600_Rev2_SPC_control_e	R8	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.1.36 LN: TONGAPC1 Name: GACP (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	AB-BIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Start		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Operate		ED1 only
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
Ind3	ABBIED600_Rev1_SPS	IN3		

Ind4	ABBIED600_Rev1_SPS	IN4		
Ind5	ABBIED600_Rev1_SPS	IN5		
Ind6	ABBIED600_Rev1_SPS	IN6		
Ind7	ABBIED600_Rev1_SPS	IN7		
Ind8	ABBIED600_Rev1_SPS	IN8		
SPCSO1	ABBIED600_Rev1_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple	Q2		status-only
SPCSO3	ABBIED600_Rev1_SPC_simple	Q3		status-only
SPCSO4	ABBIED600_Rev1_SPC_simple	Q4		status-only
SPCSO5	ABBIED600_Rev1_SPC_simple	Q5		status-only
SPCSO6	ABBIED600_Rev1_SPC_simple	Q6		status-only
SPCSO7	ABBIED600_Rev1_SPC_simple	Q7		status-only
SPCSO8	ABBIED600_Rev1_SPC_simple	Q8		status-only
OnDITmms1	ABBIED600_Rev1_ING_SP_e	On delay time 1	E	REx615 MICS:2014>IEC 61850-7-4:2003
OnDITmms2	ABBIED600_Rev1_ING_SP_e	On delay time 2	E	REx615 MICS:2014>IEC 61850-7-4:2003
OnDITmms3	ABBIED600_Rev1_ING_SP_e	On delay time 3	E	REx615 MICS:2014>IEC 61850-7-4:2003
OnDITmms4	ABBIED600_Rev1_ING_SP_e	On delay time 4	E	REx615 MICS:2014>IEC 61850-7-4:2003
OnDITmms5	ABBIED600_Rev1_ING_SP_e	On delay time 5	E	REx615 MICS:2014>IEC 61850-7-4:2003
OnDITmms6	ABBIED600_Rev1_ING_SP_e	On delay time 6	E	REx615 MICS:2014>IEC 61850-7-4:2003
OnDITmms7	ABBIED600_Rev1_ING_SP_e	On delay time 7	E	REx615 MICS:2014>IEC 61850-7-4:2003
OnDITmms8	ABBIED600_Rev1_ING_SP_e	On delay time 8	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.37 LN: TONGAPC2 Name: GACP (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	AB-BIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Start		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Operate		ED1 only
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
Ind3	ABBIED600_Rev1_SPS	IN3		
Ind4	ABBIED600_Rev1_SPS	IN4		
Ind5	ABBIED600_Rev1_SPS	IN5		

Ind6	ABBIED600_Rev1_SPS	IN6		
Ind7	ABBIED600_Rev1_SPS	IN7		
Ind8	ABBIED600_Rev1_SPS	IN8		
SPCSO1	ABBIED600_Rev1_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple	Q2		status-only
SPCSO3	ABBIED600_Rev1_SPC_simple	Q3		status-only
SPCSO4	ABBIED600_Rev1_SPC_simple	Q4		status-only
SPCSO5	ABBIED600_Rev1_SPC_simple	Q5		status-only
SPCSO6	ABBIED600_Rev1_SPC_simple	Q6		status-only
SPCSO7	ABBIED600_Rev1_SPC_simple	Q7		status-only
SPCSO8	ABBIED600_Rev1_SPC_simple	Q8		status-only
OnDITmms1	ABBIED600_Rev1_ING_SP_e	On delay time 1	E	REx615 MICS:2014>IEC 61850-7-4:2003
OnDITmms2	ABBIED600_Rev1_ING_SP_e	On delay time 2	E	REx615 MICS:2014>IEC 61850-7-4:2003
OnDITmms3	ABBIED600_Rev1_ING_SP_e	On delay time 3	E	REx615 MICS:2014>IEC 61850-7-4:2003
OnDITmms4	ABBIED600_Rev1_ING_SP_e	On delay time 4	E	REx615 MICS:2014>IEC 61850-7-4:2003
OnDITmms5	ABBIED600_Rev1_ING_SP_e	On delay time 5	E	REx615 MICS:2014>IEC 61850-7-4:2003
OnDITmms6	ABBIED600_Rev1_ING_SP_e	On delay time 6	E	REx615 MICS:2014>IEC 61850-7-4:2003
OnDITmms7	ABBIED600_Rev1_ING_SP_e	On delay time 7	E	REx615 MICS:2014>IEC 61850-7-4:2003
OnDITmms8	ABBIED600_Rev1_ING_SP_e	On delay time 8	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.38 LN: TOFGAPC1 Name: GACP (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	AB-BIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Start		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Operate		ED1 only
Ind1	ABBIED600_Rev1_SPS	Input 1		
Ind2	ABBIED600_Rev1_SPS	Input 2		
Ind3	ABBIED600_Rev1_SPS	Input 3		
Ind4	ABBIED600_Rev1_SPS	Input 4		
Ind5	ABBIED600_Rev1_SPS	Input 5		
Ind6	ABBIED600_Rev1_SPS	Input 6		
Ind7	ABBIED600_Rev1_SPS	Input 7		

Ind8	ABBIED600_Rev1_SPS	Input 8		
SPCSO1	ABBIED600_Rev1_SPC_simple	Output 1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple	Output 2		status-only
SPCSO3	ABBIED600_Rev1_SPC_simple	Output 3		status-only
SPCSO4	ABBIED600_Rev1_SPC_simple	Output 4		status-only
SPCSO5	ABBIED600_Rev1_SPC_simple	Output 5		status-only
SPCSO6	ABBIED600_Rev1_SPC_simple	Output 6		status-only
SPCSO7	ABBIED600_Rev1_SPC_simple	Output 7		status-only
SPCSO8	ABBIED600_Rev1_SPC_simple	Output 8		status-only
OffDITmms1	ABBIED600_Rev1_ING_SP_e	Off delay time 1	E	REx615 MICS:2014>IEC 61850-7-4:2003
OffDITmms2	ABBIED600_Rev1_ING_SP_e	Off delay time 2	E	REx615 MICS:2014>IEC 61850-7-4:2003
OffDITmms3	ABBIED600_Rev1_ING_SP_e	Off delay time 3	E	REx615 MICS:2014>IEC 61850-7-4:2003
OffDITmms4	ABBIED600_Rev1_ING_SP_e	Off delay time 4	E	REx615 MICS:2014>IEC 61850-7-4:2003
OffDITmms5	ABBIED600_Rev1_ING_SP_e	Off delay time 5	E	REx615 MICS:2014>IEC 61850-7-4:2003
OffDITmms6	ABBIED600_Rev1_ING_SP_e	Off delay time 6	E	REx615 MICS:2014>IEC 61850-7-4:2003
OffDITmms7	ABBIED600_Rev1_ING_SP_e	Off delay time 7	E	REx615 MICS:2014>IEC 61850-7-4:2003
OffDITmms8	ABBIED600_Rev1_ING_SP_e	Off delay time 8	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.39 LN: TOFGAPC2 Name: GACP (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	AB-BIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Start		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Operate		ED1 only
Ind1	ABBIED600_Rev1_SPS	Input 1		
Ind2	ABBIED600_Rev1_SPS	Input 2		
Ind3	ABBIED600_Rev1_SPS	Input 3		
Ind4	ABBIED600_Rev1_SPS	Input 4		
Ind5	ABBIED600_Rev1_SPS	Input 5		
Ind6	ABBIED600_Rev1_SPS	Input 6		
Ind7	ABBIED600_Rev1_SPS	Input 7		
Ind8	ABBIED600_Rev1_SPS	Input 8		
SPCSO1	ABBIED600_Rev1_SPC_simple	Output 1		status-only

SPCSO2	ABBIED600_Rev1_SPC_simple	Output 2		status-only
SPCSO3	ABBIED600_Rev1_SPC_simple	Output 3		status-only
SPCSO4	ABBIED600_Rev1_SPC_simple	Output 4		status-only
SPCSO5	ABBIED600_Rev1_SPC_simple	Output 5		status-only
SPCSO6	ABBIED600_Rev1_SPC_simple	Output 6		status-only
SPCSO7	ABBIED600_Rev1_SPC_simple	Output 7		status-only
SPCSO8	ABBIED600_Rev1_SPC_simple	Output 8		status-only
OffDITmms1	ABBIED600_Rev1_ING_SP_e	Off delay time 1	E	REx615 MICS:2014>IEC 61850-7-4:2003
OffDITmms2	ABBIED600_Rev1_ING_SP_e	Off delay time 2	E	REx615 MICS:2014>IEC 61850-7-4:2003
OffDITmms3	ABBIED600_Rev1_ING_SP_e	Off delay time 3	E	REx615 MICS:2014>IEC 61850-7-4:2003
OffDITmms4	ABBIED600_Rev1_ING_SP_e	Off delay time 4	E	REx615 MICS:2014>IEC 61850-7-4:2003
OffDITmms5	ABBIED600_Rev1_ING_SP_e	Off delay time 5	E	REx615 MICS:2014>IEC 61850-7-4:2003
OffDITmms6	ABBIED600_Rev1_ING_SP_e	Off delay time 6	E	REx615 MICS:2014>IEC 61850-7-4:2003
OffDITmms7	ABBIED600_Rev1_ING_SP_e	Off delay time 7	E	REx615 MICS:2014>IEC 61850-7-4:2003
OffDITmms8	ABBIED600_Rev1_ING_SP_e	Off delay time 8	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.40 LN: PTGAPC1 Name: GACP (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Start		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Operate		ED1 only
Ind1	ABBIED600_Rev1_SPS	Input 1		
Ind2	ABBIED600_Rev1_SPS	Input 2		
Ind3	ABBIED600_Rev1_SPS	Input 3		
Ind4	ABBIED600_Rev1_SPS	Input 4		
Ind5	ABBIED600_Rev1_SPS	Input 5		
Ind6	ABBIED600_Rev1_SPS	Input 6		
Ind7	ABBIED600_Rev1_SPS	Input 7		
Ind8	ABBIED600_Rev1_SPS	Input 8		
SPCSO1	ABBIED600_Rev1_SPC_simple	Output 1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple	Output 2		status-only
SPCSO3	ABBIED600_Rev1_SPC_simple	Output 3		status-only
SPCSO4	ABBIED600_Rev1_SPC_simple	Output 4		status-only
SPCSO5	ABBIED600_Rev1_SPC_simple	Output 5		status-only

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

6.1.41 LN: PTGAPC2 Name: GACP (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Start		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Operate		ED1 only
Ind1	ABBIED600_Rev1_SPS	Input 1		
Ind2	ABBIED600_Rev1_SPS	Input 2		
Ind3	ABBIED600_Rev1_SPS	Input 3		
Ind4	ABBIED600_Rev1_SPS	Input 4		
Ind5	ABBIED600_Rev1_SPS	Input 5		
Ind6	ABBIED600_Rev1_SPS	Input 6		
Ind7	ABBIED600_Rev1_SPS	Input 7		
Ind8	ABBIED600_Rev1_SPS	Input 8		
SPCSO1	ABBIED600_Rev1_SPC_simple	Output 1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple	Output 2		status-only
SPCSO3	ABBIED600_Rev1_SPC_simple	Output 3		status-only
SPCSO4	ABBIED600_Rev1_SPC_simple	Output 4		status-only
SPCSO5	ABBIED600_Rev1_SPC_simple	Output 5		status-only
SPCSO6	ABBIED600_Rev1_SPC_simple	Output 6		status-only
SPCSO7	ABBIED600_Rev1_SPC_simple	Output 7		status-only
SPCSO8	ABBIED600_Rev1_SPC_simple	Output 8		status-only
PlsTmms1	ABBIED600_Rev1_ING_SP_e	Pulse time 1		
PlsTmms2	ABBIED600_Rev1_ING_SP_e	Pulse time 2		
PlsTmms3	ABBIED600_Rev1_ING_SP_e	Pulse time 3		
PlsTmms4	ABBIED600_Rev1_ING_SP_e	Pulse time 4		
PlsTmms5	ABBIED600_Rev1_ING_SP_e	Pulse time 5		
PlsTmms6	ABBIED600_Rev1_ING_SP_e	Pulse time 6		
PlsTmms7	ABBIED600_Rev1_ING_SP_e	Pulse time 7		

PlsTmms8	ABBIED600_Rev1_ING_SP_e	Pulse time 8		
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6.1.42 LN: TPSGAPC1 Name: GACP (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	AB-BIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Op		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Op		ED1 only
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
SPCSO1	ABBIED600_Rev1_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple	Q2		status-only
PlsTms	ABBIED600_Rev1_ING_SP_1_e	Minimum pulse time	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.43 LN: TPMGAPC1 Name: GACP (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	AB-BIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Str		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Op		ED1 only
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
SPCSO1	ABBIED600_Rev1_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple	Q2		status-only
PlsTmm	ABBIED600_Rev1_ING_SP_1_e	Minimum pulse time	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.44 LN: SPCGAPC1 Name: GACP (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only

NamPlt	AB-BIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
Ind3	ABBIED600_Rev1_SPS	IN3		
Ind4	ABBIED600_Rev1_SPS	IN4		
Ind5	ABBIED600_Rev1_SPS	IN5		
Ind6	ABBIED600_Rev1_SPS	IN6		
Ind7	ABBIED600_Rev1_SPS	IN7		
Ind8	ABBIED600_Rev1_SPS	IN8		
Ind9	ABBIED600_Rev1_SPS	IN9		
Ind10	ABBIED600_Rev1_SPS	IN10		
Ind11	ABBIED600_Rev1_SPS	IN11		
Ind12	ABBIED600_Rev1_SPS	IN12		
Ind13	ABBIED600_Rev1_SPS	IN13		
Ind14	ABBIED600_Rev1_SPS	IN14		
Ind15	ABBIED600_Rev1_SPS	IN15		
Ind16	ABBIED600_Rev1_SPS	IN16		
SPCSO1	ABBIED600_Rev6_SPC_pulse	Output 1		status-only,direct-with-normal-security
SPCSO2	ABBIED600_Rev6_SPC_pulse	Output 2		status-only,direct-with-normal-security
SPCSO3	ABBIED600_Rev6_SPC_pulse	Output 3		status-only,direct-with-normal-security
SPCSO4	ABBIED600_Rev6_SPC_pulse	Output 4		status-only,direct-with-normal-security
SPCSO5	ABBIED600_Rev6_SPC_pulse	Output 5		status-only,direct-with-normal-security
SPCSO6	ABBIED600_Rev6_SPC_pulse	Output 6		status-only,direct-with-normal-security
SPCSO7	ABBIED600_Rev6_SPC_pulse	Output 7		status-only,direct-with-normal-security
SPCSO8	ABBIED600_Rev6_SPC_pulse	Output 8		status-only,direct-with-normal-security
SPCSO9	ABBIED600_Rev6_SPC_pulse	Output 9		status-only,direct-with-normal-security
SPCSO10	ABBIED600_Rev6_SPC_pulse	Output 10		status-only,direct-with-normal-security
SPCSO11	ABBIED600_Rev6_SPC_pulse	Output 11		status-only,direct-with-normal-security
SPCSO12	ABBIED600_Rev6_SPC_pulse	Output 12		status-only,direct-with-normal-security
SPCSO13	ABBIED600_Rev6_SPC_pulse	Output 13		status-only,direct-with-normal-security

SPCSO14	ABBIED600_Rev6_SPC_pulse	Output 14		status-only,direct-with-normal-security
SPCSO15	ABBIED600_Rev6_SPC_pulse	Output 15		status-only,direct-with-normal-security
SPCSO16	ABBIED600_Rev6_SPC_pulse	Output 16		status-only,direct-with-normal-security
LocRemRst	ABBIED600_Rev1_SPG_SP_e	Loc Rem restriction	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.45 LN: SPCGAPC2 Name: GACP (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	AB-BIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
Ind3	ABBIED600_Rev1_SPS	IN3		
Ind4	ABBIED600_Rev1_SPS	IN4		
Ind5	ABBIED600_Rev1_SPS	IN5		
Ind6	ABBIED600_Rev1_SPS	IN6		
Ind7	ABBIED600_Rev1_SPS	IN7		
Ind8	ABBIED600_Rev1_SPS	IN8		
Ind9	ABBIED600_Rev1_SPS	IN9		
Ind10	ABBIED600_Rev1_SPS	IN10		
Ind11	ABBIED600_Rev1_SPS	IN11		
Ind12	ABBIED600_Rev1_SPS	IN12		
Ind13	ABBIED600_Rev1_SPS	IN13		
Ind14	ABBIED600_Rev1_SPS	IN14		
Ind15	ABBIED600_Rev1_SPS	IN15		
Ind16	ABBIED600_Rev1_SPS	IN16		
SPCSO1	ABBIED600_Rev6_SPC_pulse	Output 1		status-only,direct-with-normal-security
SPCSO2	ABBIED600_Rev6_SPC_pulse	Output 2		status-only,direct-with-normal-security
SPCSO3	ABBIED600_Rev6_SPC_pulse	Output 3		status-only,direct-with-normal-security
SPCSO4	ABBIED600_Rev6_SPC_pulse	Output 4		status-only,direct-with-normal-security
SPCSO5	ABBIED600_Rev6_SPC_pulse	Output 5		status-only,direct-with-normal-security

SPCSO6	ABBIED600_Rev6_SPC_pulse	Output 6		status-only,direct-with-normal-security
SPCSO7	ABBIED600_Rev6_SPC_pulse	Output 7		status-only,direct-with-normal-security
SPCSO8	ABBIED600_Rev6_SPC_pulse	Output 8		status-only,direct-with-normal-security
SPCSO9	ABBIED600_Rev6_SPC_pulse	Output 9		status-only,direct-with-normal-security
SPCSO10	ABBIED600_Rev6_SPC_pulse	Output 10		status-only,direct-with-normal-security
SPCSO11	ABBIED600_Rev6_SPC_pulse	Output 11		status-only,direct-with-normal-security
SPCSO12	ABBIED600_Rev6_SPC_pulse	Output 12		status-only,direct-with-normal-security
SPCSO13	ABBIED600_Rev6_SPC_pulse	Output 13		status-only,direct-with-normal-security
SPCSO14	ABBIED600_Rev6_SPC_pulse	Output 14		status-only,direct-with-normal-security
SPCSO15	ABBIED600_Rev6_SPC_pulse	Output 15		status-only,direct-with-normal-security
SPCSO16	ABBIED600_Rev6_SPC_pulse	Output 16		status-only,direct-with-normal-security
LocRemRst	ABBIED600_Rev1_SPG_SP_e	Loc Rem restriction	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.46 LN: LNLPDIF1 Name: PDIF (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
DifACIc	AB-BIED600_Rev3_WYE_threephase_simple_i	Differential Current		
RstA	AB-BIED600_Rev3_WYE_threephase_simple_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		
RsDITmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
TmACrv	ABBIED600_Rev2_CURVE_SG_setCharact	Operating Curve Type		

OpDITmms	ABBIED600_Rev1_ING_SG_e	Operate Delay Time		
TmMult	ABBIED600_Rev3_ASG_SG_i_e	Time Dial Multiplier		
StrRem	ABBIED600_Rev1_ACD_threephase_e	Start stab. stage remote	E	REx615 MICS:2014>IEC 61850-7-4:2003
OpRem	ABBIED600_Rev1_ACT_threephase_e	Operate stab. stage remote	E	REx615 MICS:2014>IEC 61850-7-4:2003
Blk2HRemSt	ABBIED600_Rev1_ACT_threephase_e	Restrained due 2nd harm. detected remote	E	REx615 MICS:2014>IEC 61850-7-4:2003
Blk2HLocSt	ABBIED600_Rev1_ACT_threephase_e	Restrained due 2nd harm. detected local	E	REx615 MICS:2014>IEC 61850-7-4:2003
EndScn1	ABBIED600_Rev3_ASG_SG_i_e	End section 1	E	REx615 MICS:2014>IEC 61850-7-4:2003
SpeScn2	ABBIED600_Rev3_ASG_SG_i_e	Slope section 2	E	REx615 MICS:2014>IEC 61850-7-4:2003
EndScn2	ABBIED600_Rev3_ASG_SG_i_e	End section 2	E	REx615 MICS:2014>IEC 61850-7-4:2003
SpeScn3	ABBIED600_Rev3_ASG_SG_i_e	Slope section 3	E	REx615 MICS:2014>IEC 61850-7-4:2003
Blk	ABBIED600_Rev1_SPS_simple	Blocks stab. stage		
An-gLocRemA	ABBIED600_Rev3_MV_simple_i_e	Local and remote phase A angle difference	E	REx615 MICS:2014>IEC 61850-7-4:2003
An-gLocRemB	ABBIED600_Rev3_MV_simple_i_e	Local and remote phase B angle difference	E	REx615 MICS:2014>IEC 61850-7-4:2003
An-gLocRemC	ABBIED600_Rev3_MV_simple_i_e	Local and remote phase C angle difference	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time, local	E	REx615 MICS:2014>IEC 61850-7-4:2003
TestPro	ABBIED600_Rev1_ENC_TestPro_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
CTConnTyp	AB-BIED600_Rev2_ENG_SP_CTConnTyp_e	CT connection type. Determined by the directions of the connected current transformers.	E	REx615 MICS:2014>IEC 61850-7-4:2003
WndSel	ABBIED600_Rev2_ENG_SP_WndSel_e	Winding selection, HV or LV side of transformer	E	REx615 MICS:2014>IEC 61850-7-4:2003

Wnd1Typ	ABBIED600_Rev3_ENG_SP_Wnd1Typ_e	Winding 1 type	E	REx615 MICS:2014>IEC 61850-7-4:2003
Wnd2Typ	ABBIED600_Rev3_ENG_SP_Wnd2Typ_e	Winding 2 type	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClikNum	ABBIED600_Rev2_ENG_SP_ClikNum_e	Phase shift	E	REx615 MICS:2014>IEC 61850-7-4:2003
ZroAEIm	ABBIED600_Rev4_ENG_SP_ZroAEIm_e	Zro A elimination	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.47 LN: LNHPDIF1 Name: PDIF (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
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	REx615 MICS:2014>IEC 61850-7-4:2003
InEnaMltHi	ABBIED600_Rev1_SPS_simple_e	Enables the high stage multiplier	E	REx615 MICS:2014>IEC 61850-7-4:2003
OpRem	AB-BIED600_Rev1_ACT_threephase_e	Operate inst. stage remote	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.48 LN: LNRMXU1 Name: RMXU (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	AB-BIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
ARem	ABBIED600_Rev3_WYE_4_e	Operate Current of the remote current measurement	E	REx615 MICS:2014>IEC 61850-7-4:2003
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	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.49 LN: PCSITPC1 Name: ITPC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_ENC_Mod_On	Mode		status-only,ED1 only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		
NamPlt	AB-BIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
EEHealth	ABBIED600_Rev4_ENS_health	Health		
LoopTestTm	ABBIED600_Rev3_MV_simple_i	Time measured at last loop test		
RsDITmms	ABBIED600_Rev1_ING_SP_e	Reset Delay Time	E	REx615 MICS:2014>IEC 61850-7-4:2003
HealthWrn	ABBIED600_Rev1_SPS_e	Warning	E	REx615 MICS:2014>IEC 61850-7-4:2003
HealthOk	ABBIED600_Rev1_SPS_e	Ok	E	REx615 MICS:2014>IEC 61850-7-4:2003
HealthAlm	ABBIED600_Rev1_SPS_e	Alarm	E	REx615 MICS:2014>IEC 61850-7-4:2003
Comm	ABBIED600_Rev1_SPS_e	Comm	E	REx615 MICS:2014>IEC 61850-7-4:2003
RxErrGen	ABBIED600_Rev2_INC_control_int_e	Rx error generate	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
SmplLty	ABBIED600_Rev3_MV_simple_i_e	Measured sample latency	E	REx615 MICS:2014>IEC 61850-7-4:2003
AlmCntRs	ABBIED600_Rev2_INC_control_int_e	Alarm count	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
WrnCntRs	ABBIED600_Rev2_INC_control_int_e	Warning count	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
PropDI	ABBIED600_Rev3_MV_simple_i_e	Measured propagation delay	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.50 LN: LDPRRLRC1 Name: RLRC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD_e	Mode	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh_e	Behaviour	E	REx615 MICS:2014>IEC 61850-7-4:2003
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only

NamPlt	ABBIED600_Rev1_LPL_InNs_1_e	Name plate	E	REx615 MICS:2014>IEC 61850-7-4:2003
RcdRs	ABBIED600_Rev2_SPC_control	Reset load profile rec.		status-only,direct-with-normal-security
QtySel1	ABBIED600_Rev3_ENG_SP_Qty-Sel	Quantity selection 1		
QtySel2	ABBIED600_Rev3_ENG_SP_Qty-Sel	Quantity selection 2		
QtySel3	ABBIED600_Rev3_ENG_SP_Qty-Sel	Quantity selection 3		
QtySel4	ABBIED600_Rev3_ENG_SP_Qty-Sel	Quantity selection 4		
QtySel5	ABBIED600_Rev3_ENG_SP_Qty-Sel	Quantity selection 5		
QtySel6	ABBIED600_Rev3_ENG_SP_Qty-Sel	Quantity selection 6		
QtySel7	ABBIED600_Rev3_ENG_SP_Qty-Sel	Quantity selection 7		
QtySel8	ABBIED600_Rev3_ENG_SP_Qty-Sel	Quantity selection 8		
QtySel9	ABBIED600_Rev3_ENG_SP_Qty-Sel	Quantity selection 9		
QtySel10	ABBIED600_Rev3_ENG_SP_Qty-Sel	Quantity selection 10		
QtySel11	ABBIED600_Rev3_ENG_SP_Qty-Sel	Quantity selection 11		
QtySel12	ABBIED600_Rev3_ENG_SP_Qty-Sel	Quantity selection 12		
MemUsed	ABBIED600_Rev1_INS_e	Rec. memory used	E	REx615 MICS:2014>IEC 61850-7-4:2003
MemWrn	ABBIED600_Rev1_SPS_simple	Memory warning		
MemAlm	ABBIED600_Rev1_SPS_simple	Memory alarm		
MemWrnLev	ABBIED600_Rev1_ING_SP_1	Mem. warning level		
MemAlmLev	ABBIED600_Rev1_ING_SP_1	Mem. alarm level		

6.1.51 LN: SSCBR1 Name: SCBR (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only

Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		
OpCntAlm	ABBIED600_Rev1_SPS	Number of CB operations exceeds alarm limit		
OpTmOpn	ABBIED600_Rev3_MV_simple_i	Travel time of the CB during opening operation		
OpTmCls	ABBIED600_Rev3_MV_simple_i	Travel time of the CB during closing operation		
OpTmAlm	ABBIED600_Rev1_SPS_simple	Switch operating time exceeded		
OpAlmNum	ABBIED600_Rev1_ING_SP_1	Setting of alarm for number of CB operations.		
OpCntRs	ABBIED600_Rev1_INC_simple_int	Number of CB operation cycle		status-only
InPosOpn	ABBIED600_Rev1_SPS_e	POSOPEN	E	REx615 MICS:2014>IEC 61850-7-4:2003
InPosCls	ABBIED600_Rev1_SPS_e	POSCLOSE	E	REx615 MICS:2014>IEC 61850-7-4:2003
ColCls	ABBIED600_Rev1_SPS_simple_e	Close command status	E	REx615 MICS:2014>IEC 61850-7-4:2003
PosOpn	ABBIED600_Rev1_SPS_e	CB position is open	E	REx615 MICS:2014>IEC 61850-7-4:2003
PosIvd	ABBIED600_Rev1_SPS_e	INVALIDPOS	E	REx615 MICS:2014>IEC 61850-7-4:2003
PosCls	ABBIED600_Rev1_SPS_e	CB position is closed	E	REx615 MICS:2014>IEC 61850-7-4:2003
OpnAlm	ABBIED600_Rev1_SPS_e	CB open travel time exceeded set value	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClsAlm	ABBIED600_Rev1_SPS_e	CB close travel time exceeded set value	E	REx615 MICS:2014>IEC 61850-7-4:2003
OpCntLO	ABBIED600_Rev1_SPS_e	Number of CB operations exceeds lockout limit	E	REx615 MICS:2014>IEC 61850-7-4:2003
LonTmAlm	ABBIED600_Rev1_SPS_e	CB 'not operated for long time' alarm	E	REx615 MICS:2014>IEC 61850-7-4:2003
APwrAlm	ABBIED600_Rev1_SPS_e	Accumulated currents power (lyt),exceeded alarm limit	E	REx615 MICS:2014>IEC 61850-7-4:2003
APwrLO	ABBIED600_Rev1_SPS_e	Accumulated currents power (lyt),exceeded lockout limit	E	REx615 MICS:2014>IEC 61850-7-4:2003
RmnNumO-pAlm	ABBIED600_Rev1_SPS_e	Remaining life of CB exceeded alarm limit	E	REx615 MICS:2014>IEC 61850-7-4:2003

OpnAlmTmms	ABBIED600_Rev1_ING_SP_1_e	Setting of alarm level for open travel time in ms	E	REx615 MICS:2014>IEC 61850-7-4:2003
CorOpnTmms	ABBIED600_Rev1_ING_SP_1_e	Correction factor for open travel time in ms	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClsAlmTmms	ABBIED600_Rev1_ING_SP_1_e	Setting of alarm level for close travel time in ms	E	REx615 MICS:2014>IEC 61850-7-4:2003
CorClsTmms	ABBIED600_Rev1_ING_SP_1_e	Correction factor for CB close travel time in ms	E	REx615 MICS:2014>IEC 61850-7-4:2003
CorDifTmms	ABBIED600_Rev1_ING_SP_1_e	Corr. factor for time dif in aux. and main contacts open time	E	REx615 MICS:2014>IEC 61850-7-4:2003
OpLONum	ABBIED600_Rev1_ING_SP_1_e	Setting to block operation when number of operation is more.	E	REx615 MICS:2014>IEC 61850-7-4:2003
OpNumRtg	ABBIED600_Rev1_ING_SP_1_e	Number of operations possible at rated current	E	REx615 MICS:2014>IEC 61850-7-4:2003
NumOpAlm-Lev	ABBIED600_Rev1_ING_SP_1_e	Alarm level for CB remaining life	E	REx615 MICS:2014>IEC 61850-7-4:2003
OpNumFlt	ABBIED600_Rev1_ING_SP_1_e	Number of operations possible at rated fault current	E	REx615 MICS:2014>IEC 61850-7-4:2003
CntIniVar	ABBIED600_Rev1_ING_SP_1_e	The operation numbers counter initialization value	E	REx615 MICS:2014>IEC 61850-7-4:2003
InaAlmTmd	ABBIED600_Rev1_ING_SP_1_e	Alarm limit value of the inactive days counter	E	REx615 MICS:2014>IEC 61850-7-4:2003
InilnaTmd	ABBIED600_Rev1_ING_SP_1_e	Initial value of the inactive days counter	E	REx615 MICS:2014>IEC 61850-7-4:2003
InaAlmTmh	ABBIED600_Rev1_ING_SP_1_e	Alarm time of the inactive days counter in hours	E	REx615 MICS:2014>IEC 61850-7-4:2003
InaTmdCnt	ABBIED600_Rev1_INS_e	The number of days CB has been inactive	E	REx615 MICS:2014>IEC 61850-7-4:2003
RsAccmAPwr	ABBIED600_Rev2_SPC_control_e	Reset accumulation energy	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
RsCBWear	ABBIED600_Rev2_SPC_control_e	Reset input for CB remaining life and operation counter	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
RsTrvTm	ABBIED600_Rev2_SPC_control_e	SSCBR1 travel t	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-

				only,direct-with-normal-security
TestSpvn	AB-BIED600_Rev1_ENC_TestSpvn_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
TrvClcMod	ABBIED600_Rev2_ENG_SP_Trv-ClcMod_e	Travel time calculation mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
DirCff	ABBIED600_Rev1_ASG_SP_f_e	Directional coefficient for CB life calculation	E	REx615 MICS:2014>IEC 61850-7-4:2003
IniRm-nNumOp	ABBIED600_Rev1_ASG_SP_f_e	Initial value for the CB remaining life estimates	E	REx615 MICS:2014>IEC 61850-7-4:2003
Al-mAccmAPwr	ABBIED600_Rev3_ASG_SP_i_e	Setting of alarm level for accumulated currents power, lyt	E	REx615 MICS:2014>IEC 61850-7-4:2003
AccmStopA	ABBIED600_Rev3_ASG_SP_i_e	Setting of the RMS current below which engy acm stops	E	REx615 MICS:2014>IEC 61850-7-4:2003
LOAccmAPwr	ABBIED600_Rev3_ASG_SP_i_e	Setting of lockout level for accumulated currents power, lyt	E	REx615 MICS:2014>IEC 61850-7-4:2003
AExpn	ABBIED600_Rev1_ASG_SP_f_e	Current exponent setting for energy calculation	E	REx615 MICS:2014>IEC 61850-7-4:2003
AOpRtg	ABBIED600_Rev3_ASG_SP_i_e	Rated operating current of the breaker	E	REx615 MICS:2014>IEC 61850-7-4:2003
AFltRtg	ABBIED600_Rev3_ASG_SP_i_e	Rated fault current of the breaker	E	REx615 MICS:2014>IEC 61850-7-4:2003
IniAccmAPwr	ABBIED600_Rev3_ASG_SP_i_e	Initial value for accumulation energy (lyt)	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.52 LN: SPH1SCBR1 Name: SCBR (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	AB-BIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		
RmnNumOp	ABBIED600_Rev1_INS_d_e	CB Remaining life phase A	E	REx615 MICS:2014>IEC 61850-7-4:2003

AccmAPwr	ABBIED600_Rev3_MV_simple_i_e	Accumulated currents power (lyt), phase A	E	REx615 MICS:2014>IEC 61850-7-4:2003
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6.1.53 LN: SPH2SCBR1 Name: SCBR (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	AB-BIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		
RmnNumOp	ABBIED600_Rev1_INS_d_e	CB Remaining life phase B	E	REx615 MICS:2014>IEC 61850-7-4:2003
AccmAPwr	ABBIED600_Rev3_MV_simple_i_e	Accumulated currents power (lyt), phase B	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.54 LN: SPH3SCBR1 Name: SCBR (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	AB-BIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		
RmnNumOp	ABBIED600_Rev1_INS_d_e	CB Remaining life phase C	E	REx615 MICS:2014>IEC 61850-7-4:2003
AccmAPwr	ABBIED600_Rev3_MV_simple_i_e	Accumulated currents power (lyt), phase C	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.55 LN: SSOPM1 Name: SOPM (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	AB-BIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
SprChaAIm	ABBIED600_Rev1_SPS_e	Spring charging time has crossed the set value	E	REx615 MICS:2014>IEC 61850-7-4:2003

SprChaStr	ABBIED600_Rev1_SPS_e	CB spring charging started input	E	REx615 MICS:2014>IEC 61850-7-4:2003
SprChaStop	ABBIED600_Rev1_SPS_e	CB spring charged input	E	REx615 MICS:2014>IEC 61850-7-4:2003
SprChaTmms	ABBIED600_Rev1_ING_SP_e	Setting of alarm for spring charging time of CB in ms.	E	REx615 MICS:2014>IEC 61850-7-4:2003
TmsSprCha	ABBIED600_Rev3_MV_simple_i_e	The charging time of the CB spring	E	REx615 MICS:2014>IEC 61850-7-4:2003
RsSprChaTm	ABBIED600_Rev2_SPC_control_e	SSCBR1 spr.charge t	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.1.56 LN: TR2LPDIF1 Name: PDIF (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Operate signal from low (stabilized) stage		
DifACIc	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	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
SpeScn2	ABBIED600_Rev3_ASG_SG_i_e	Slope section 2	E	REx615 MICS:2014>IEC 61850-7-4:2003
EndScn2	ABBIED600_Rev3_ASG_SG_i_e	End section 2	E	REx615 MICS:2014>IEC 61850-7-4:2003
CTConnTyp	AB-BIED600_Rev2_ENG_SP_CTConnTyp_e	CT connection type	E	REx615 MICS:2014>IEC 61850-7-4:2003
Wnd1Typ	ABBIED600_Rev3_ENG_SP_Wnd1Typ_e	Winding 1 type	E	REx615 MICS:2014>IEC 61850-7-4:2003
Wnd2Typ	ABBIED600_Rev3_ENG_SP_Wnd2Typ_e	Winding 2 type	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClkNum	ABBIED600_Rev2_ENG_SP_ClkNum_e	Phase shift	E	REx615 MICS:2014>IEC 61850-7-4:2003

ZroAEIm	ABBIED600_Rev4_ENG_SP_ZroAEIm_e	Zro A elimination	E	REx615 MICS:2014>IEC 61850-7-4:2003
MinWndTap	ABBIED600_Rev1_ING_SP_1_e	Min winding tap	E	REx615 MICS:2014>IEC 61850-7-4:2003
Max-WndTap	ABBIED600_Rev1_ING_SP_1_e	Max winding tap	E	REx615 MICS:2014>IEC 61850-7-4:2003
TapNom-LTC1	ABBIED600_Rev1_ING_SP_1_e	Tap nominal	E	REx615 MICS:2014>IEC 61850-7-4:2003
TapWnd	ABBIED600_Rev2_ENG_SP_WndSel_e	Tapped winding	E	REx615 MICS:2014>IEC 61850-7-4:2003
StepTap1	ABBIED600_Rev3_ASG_SP_i_e	Step of tap	E	REx615 MICS:2014>IEC 61850-7-4:2003
HDBlk	ABBIED600_Rev1_SPG_SG_e	Harmonic deblock 2.	E	REx615 MICS:2014>IEC 61850-7-4:2003
BlkWavSt	ABBIED600_Rev1_ACT_threephase_e	Status from waveform blocking	E	REx615 MICS:2014>IEC 61850-7-4:2003
Blk2HSt	ABBIED600_Rev1_ACT_threephase_e	Status from 2nd harmonic restraint blocking	E	REx615 MICS:2014>IEC 61850-7-4:2003
Blk5HSt	ABBIED600_Rev1_ACT_threephase_e	Status from 5th harmonic restraint blocking	E	REx615 MICS:2014>IEC 61850-7-4:2003
ScyAComp	ABBIED600_Rev3_WYE_threephase_simple_i_e	Connection group compensated secondary current	E	REx615 MICS:2014>IEC 61850-7-4:2003
PriAComp	ABBIED600_Rev3_WYE_threephase_simple_i_e	Connection group compensated primary current	E	REx615 MICS:2014>IEC 61850-7-4:2003
AngPriAB	ABBIED600_Rev3_MV_simple_i_e	Curr ph angle A to B, winding 1	E	REx615 MICS:2014>IEC 61850-7-4:2003
AngPriBC	ABBIED600_Rev3_MV_simple_i_e	Curr ph angle B to C, winding 1	E	REx615 MICS:2014>IEC 61850-7-4:2003
AngPriCA	ABBIED600_Rev3_MV_simple_i_e	Curr ph angle C to A, winding 1	E	REx615 MICS:2014>IEC 61850-7-4:2003
AngScyAB	ABBIED600_Rev3_MV_simple_i_e	Curr ph angle A to B, winding 2	E	REx615 MICS:2014>IEC 61850-7-4:2003
AngScyBC	ABBIED600_Rev3_MV_simple_i_e	Curr ph angle B to C, winding 2	E	REx615 MICS:2014>IEC 61850-7-4:2003
AngScyCA	ABBIED600_Rev3_MV_simple_i_e	Curr ph angle C to A, winding 2	E	REx615 MICS:2014>IEC 61850-7-4:2003
AngPriScyA	ABBIED600_Rev3_MV_simple_i_e	Curr ph A winding 1 to 2 angle	E	REx615 MICS:2014>IEC 61850-7-4:2003

AngPriScyB	ABBIED600_Rev3_MV_simple_i_e	Curr ph B winding 1 to 2 angle	E	REx615 MICS:2014>IEC 61850-7-4:2003
AngPriScyC	ABBIED600_Rev3_MV_simple_i_e	Curr ph C winding 1 to 2 angle	E	REx615 MICS:2014>IEC 61850-7-4:2003
CTRatCor1	ABBIED600_Rev3_ASG_SP_i_e	CT ratio correction, winding 1	E	REx615 MICS:2014>IEC 61850-7-4:2003
CTRatCor2	ABBIED600_Rev3_ASG_SP_i_e	CT ratio correction, winding 2	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.57 LN: TR2HPDIF1 Name: PDIF (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	AB-BIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Operate signal from high (instantaneous) stage		
HiSet	ABBIED600_Rev3_ASG_SG_i	High operate value		
Blk	ABBIED600_Rev1_SPS_simple	Blocks operate outputs from instantaneous stage		
EnaHiSet	ABBIED600_Rev1_SPG_SG_e	Enable high set	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.58 LN: SSCBR2 Name: SCBR (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		
OpCntAlm	ABBIED600_Rev1_SPS	Number of CB operations exceeds alarm limit		
OpTmOpn	ABBIED600_Rev3_MV_simple_i	Travel time of the CB during opening operation		
OpTmCls	ABBIED600_Rev3_MV_simple_i	Travel time of the CB during closing operation		

OpTmAlm	ABBIED600_Rev1_SPS_simple	Switch operating time exceeded		
OpAlmNum	ABBIED600_Rev1_ING_SP_1	Setting of alarm for number of CB operations.		
OpCntRs	ABBIED600_Rev1_INC_simple_int	Number of CB operation cycle		status-only
InPosOpn	ABBIED600_Rev1_SPS_e	POSOPEN	E	REx615 MICS:2014>IEC 61850-7-4:2003
InPosClis	ABBIED600_Rev1_SPS_e	POSCLOSE	E	REx615 MICS:2014>IEC 61850-7-4:2003
ColClis	ABBIED600_Rev1_SPS_simple_e	Close command status	E	REx615 MICS:2014>IEC 61850-7-4:2003
PosOpn	ABBIED600_Rev1_SPS_e	CB position is open	E	REx615 MICS:2014>IEC 61850-7-4:2003
PosInvd	ABBIED600_Rev1_SPS_e	INVALIDPOS	E	REx615 MICS:2014>IEC 61850-7-4:2003
PosClis	ABBIED600_Rev1_SPS_e	CB position is closed	E	REx615 MICS:2014>IEC 61850-7-4:2003
OpnAlm	ABBIED600_Rev1_SPS_e	CB open travel time exceeded set value	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClisAlm	ABBIED600_Rev1_SPS_e	CB close travel time exceeded set value	E	REx615 MICS:2014>IEC 61850-7-4:2003
OpCntLO	ABBIED600_Rev1_SPS_e	Number of CB operations exceeds lock-out limit	E	REx615 MICS:2014>IEC 61850-7-4:2003
LonTmAlm	ABBIED600_Rev1_SPS_e	CB 'not operated for long time' alarm	E	REx615 MICS:2014>IEC 61850-7-4:2003
APwrAlm	ABBIED600_Rev1_SPS_e	Accumulated currents power (lyt), exceeded alarm limit	E	REx615 MICS:2014>IEC 61850-7-4:2003
APwrLO	ABBIED600_Rev1_SPS_e	Accumulated currents power (lyt), exceeded lockout limit	E	REx615 MICS:2014>IEC 61850-7-4:2003
RmnNumOpAlm	ABBIED600_Rev1_SPS_e	Remaining life of CB exceeded alarm limit	E	REx615 MICS:2014>IEC 61850-7-4:2003
OpnAlmTmms	ABBIED600_Rev1_ING_SP_1_e	Setting of alarm level for open travel time in ms	E	REx615 MICS:2014>IEC 61850-7-4:2003
CorOpnTmms	ABBIED600_Rev1_ING_SP_1_e	Correction factor for open travel time in ms	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClisAlmTmms	ABBIED600_Rev1_ING_SP_1_e	Setting of alarm level for close travel time in ms	E	REx615 MICS:2014>IEC 61850-7-4:2003
CorClisTmms	ABBIED600_Rev1_ING_SP_1_e	Correction factor for CB close travel time in ms	E	REx615 MICS:2014>IEC 61850-7-4:2003

CorDifTmms	ABBIED600_Rev1_ING_SP_1_e	Corr. factor for time dif in aux. and main contacts open time	E	REx615 MICS:2014>IEC 61850-7-4:2003
OpLONum	ABBIED600_Rev1_ING_SP_1_e	Setting to block operation when number of operation is more.	E	REx615 MICS:2014>IEC 61850-7-4:2003
OpNumRtg	ABBIED600_Rev1_ING_SP_1_e	Number of operations possible at rated current	E	REx615 MICS:2014>IEC 61850-7-4:2003
NumOpAlm-Lev	ABBIED600_Rev1_ING_SP_1_e	Alarm level for CB remaining life	E	REx615 MICS:2014>IEC 61850-7-4:2003
OpNumFlt	ABBIED600_Rev1_ING_SP_1_e	Number of operations possible at rated fault current	E	REx615 MICS:2014>IEC 61850-7-4:2003
CntIniVar	ABBIED600_Rev1_ING_SP_1_e	The operation numbers counter initialization value	E	REx615 MICS:2014>IEC 61850-7-4:2003
InaAlmTmd	ABBIED600_Rev1_ING_SP_1_e	Alarm limit value of the inactive days counter	E	REx615 MICS:2014>IEC 61850-7-4:2003
InilnaTmd	ABBIED600_Rev1_ING_SP_1_e	Initial value of the inactive days counter	E	REx615 MICS:2014>IEC 61850-7-4:2003
InaAlmTmh	ABBIED600_Rev1_ING_SP_1_e	Alarm time of the inactive days counter in hours	E	REx615 MICS:2014>IEC 61850-7-4:2003
InaTmdCnt	ABBIED600_Rev1_INS_e	The number of days CB has been inactive	E	REx615 MICS:2014>IEC 61850-7-4:2003
RsAccmAPwr	ABBIED600_Rev2_SPC_control_e	Reset accumulation energy	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
RsCBWear	ABBIED600_Rev2_SPC_control_e	Reset input for CB remaining life and operation counter	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
RsTrvTm	ABBIED600_Rev2_SPC_control_e	SSCBR2 travel t	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
TestSpvn	AB-BIED600_Rev1_ENC_TestSpvn_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
TrvClcMod	ABBIED600_Rev2_ENG_SP_Trv-ClcMod_e	Travel time calculation mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
DirCff	ABBIED600_Rev1_ASG_SP_f_e	Directional coefficient for CB life calculation	E	REx615 MICS:2014>IEC 61850-7-4:2003

IniRm-nNumOp	ABBIED600_Rev1_ASG_SP_f_e	Initial value for the CB remaining life estimates	E	REx615 MICS:2014>IEC 61850-7-4:2003
Al-mAccmAPwr	ABBIED600_Rev3_ASG_SP_i_e	Setting of alarm level for accumulated currents power, lyt	E	REx615 MICS:2014>IEC 61850-7-4:2003
AccmStopA	ABBIED600_Rev3_ASG_SP_i_e	Setting of the RMS current below which engy acm stops	E	REx615 MICS:2014>IEC 61850-7-4:2003
LOAccmAPwr	ABBIED600_Rev3_ASG_SP_i_e	Setting of lockout level for accumulated currents power, lyt	E	REx615 MICS:2014>IEC 61850-7-4:2003
AExpn	ABBIED600_Rev1_ASG_SP_f_e	Current exponent setting for energy calculation	E	REx615 MICS:2014>IEC 61850-7-4:2003
AOpRtg	ABBIED600_Rev3_ASG_SP_i_e	Rated operating current of the breaker	E	REx615 MICS:2014>IEC 61850-7-4:2003
AFltRtg	ABBIED600_Rev3_ASG_SP_i_e	Rated fault current of the breaker	E	REx615 MICS:2014>IEC 61850-7-4:2003
IniAccmAPwr	ABBIED600_Rev3_ASG_SP_i_e	Initial value for accumulation energy (lyt)	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.59 LN: SPH1SCBR2 Name: SCBR (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	AB-BIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		
RmnNumOp	ABBIED600_Rev1_INS_d_e	CB Remaining life phase A	E	REx615 MICS:2014>IEC 61850-7-4:2003
AccmAPwr	ABBIED600_Rev3_MV_simple_i_e	Accumulated currents power (lyt), phase A	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.60 LN: SPH2SCBR2 Name: SCBR (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only

NamPlt	AB-BIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		
RmnNumOp	ABBIED600_Rev1_INS_d_e	CB Remaining life phase B	E	REx615 MICS:2014>IEC 61850-7-4:2003
AccmAPwr	ABBIED600_Rev3_MV_simple_i_e	Accumulated currents power (lyt), phase B	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.61 LN: SPH3SCBR2 Name: SCBR (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	AB-BIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		
RmnNumOp	ABBIED600_Rev1_INS_d_e	CB Remaining life phase C	E	REx615 MICS:2014>IEC 61850-7-4:2003
AccmAPwr	ABBIED600_Rev3_MV_simple_i_e	Accumulated currents power (lyt), phase C	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.62 LN: SSOPM2 Name: SOPM (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	AB-BIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
SprChaAlm	ABBIED600_Rev1_SPS_e	Spring charging time has crossed the set value	E	REx615 MICS:2014>IEC 61850-7-4:2003
SprChaStr	ABBIED600_Rev1_SPS_e	CB spring charging started input	E	REx615 MICS:2014>IEC 61850-7-4:2003
SprChaStop	ABBIED600_Rev1_SPS_e	CB spring charged input	E	REx615 MICS:2014>IEC 61850-7-4:2003
SprChaTmms	ABBIED600_Rev1_ING_SP_e	Setting of alarm for spring charging time of CB in ms.	E	REx615 MICS:2014>IEC 61850-7-4:2003
TmsSprCha	ABBIED600_Rev3_MV_simple_i_e	The charging time of the CB spring	E	REx615 MICS:2014>IEC 61850-7-4:2003
RsSprChaTm	ABBIED600_Rev2_SPC_control_e	SSCBR2 spr.charge t	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.1.63 LN: SEQSPVC1 Name: SPVC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD_e	Mode	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh_e	Behaviour	E	REx615 MICS:2014>IEC 61850-7-4:2003
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_InNs_1_e	Name plate	E	REx615 MICS:2014>IEC 61850-7-4:2003
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple_e	General start of function	E	REx615 MICS:2014>IEC 61850-7-4:2003
Str3Ph	ABBIED600_Rev1_ACD_simple	Three-phase start of function		
InPosCls	ABBIED600_Rev1_SPS	Active when circuit breaker is closed		
InDCPosOpn	ABBIED600_Rev1_SPS	Active when line disconnector is open		
InMCBPsOpn	ABBIED600_Rev1_SPS	Active when external MCB opens protected Volt. circuit		
BlkValA	ABBIED600_Rev3_ASG_SP_i_e	Minimum operate level of phase current for delta calculation	E	REx615 MICS:2014>IEC 61850-7-4:2003
NgSeqLevA	ABBIED600_Rev3_ASG_SP_i	Operate level of neg seq undercurrent element		
ChgRteA	ABBIED600_Rev3_ASG_SP_i	Operate level of change in phase current		
ChgRteEna	ABBIED600_Rev1_SPG_SP	Enabling operation of change based function		
ChgRteV	ABBIED600_Rev3_ASG_SP_i	Operate level of change in phase voltage		
EnaSealln	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	REx615 MICS:2014>IEC 61850-7-4:2003
SeallnV	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	AB-BIED600_Rev1_ENC_TestSpvn	SEQSPVC1		status-only,direct-with-normal-security
DeaLinValA	ABBIED600_Rev3_ASG_SP_i	Operate level for open phase current detection		

6.1.64 LN: PEAVMMXU1 Name: MMXU (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_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	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClcMth	AB-BIED600_Rev2_ENG_SP_ClcMth	Calculation method of statistical data objects	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClcSrc	ABBIED600_Rev2_ORG_SP_1	Object reference to source logical node	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.65 LN: PEMAMMXU1 Name: MMXU (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_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	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClcMth	AB-BIED600_Rev2_ENG_SP_ClcMth	Calculation method of statistical data objects	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClcSrc	ABBIED600_Rev2_ORG_SP_1	Object reference to source logical node	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.66 LN: PEMIMMXU1 Name: MMXU (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_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	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClcMth	AB-BIED600_Rev2_ENG_SP_ClcMth	Calculation method of statistical data objects	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClcSrc	ABBIED600_Rev2_ORG_SP_1	Object reference to source logical node	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.67 LN: UDFCNT1 Name: FCNT (ED1)

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		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
InUpCnt	ABBIED600_Rev1_SPS_e	Input for up counting	E	REx615 MICS:2014>IEC 61850-7-4:2003
InDnCnt	ABBIED600_Rev1_SPS_e	Input for down counting	E	REx615 MICS:2014>IEC 61850-7-4:2003
CntLodVal	ABBIED600_Rev1_ING_SP_1_e	Preset counter value	E	REx615 MICS:2014>IEC 61850-7-4:2003
CntVal	ABBIED600_Rev2_BCR_1	Output of counter value		
UpCntSt	ABBIED600_Rev1_SPS_e	Status output of up counting	E	REx615 MICS:2014>IEC 61850-7-4:2003
DnCntSt	ABBIED600_Rev1_SPS_e	Status output of down counting	E	REx615 MICS:2014>IEC 61850-7-4:2003
CntRs	ABBIED600_Rev2_SPC_control_e	Resets the counter value	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
LodCnt	ABBIED600_Rev2_SPC_control_e	Load the counter to preset value	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.1.68 LN: SPCGAPC3 Name: GACP (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	AB-BIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
Ind3	ABBIED600_Rev1_SPS	IN3		
Ind4	ABBIED600_Rev1_SPS	IN4		
Ind5	ABBIED600_Rev1_SPS	IN5		
Ind6	ABBIED600_Rev1_SPS	IN6		
Ind7	ABBIED600_Rev1_SPS	IN7		
Ind8	ABBIED600_Rev1_SPS	IN8		
Ind9	ABBIED600_Rev1_SPS	IN9		
Ind10	ABBIED600_Rev1_SPS	IN10		
Ind11	ABBIED600_Rev1_SPS	IN11		
Ind12	ABBIED600_Rev1_SPS	IN12		
Ind13	ABBIED600_Rev1_SPS	IN13		
Ind14	ABBIED600_Rev1_SPS	IN14		
Ind15	ABBIED600_Rev1_SPS	IN15		
Ind16	ABBIED600_Rev1_SPS	IN16		
SPCSO1	ABBIED600_Rev6_SPC_pulse	Output 1		status-only,direct-with-normal-security
SPCSO2	ABBIED600_Rev6_SPC_pulse	Output 2		status-only,direct-with-normal-security
SPCSO3	ABBIED600_Rev6_SPC_pulse	Output 3		status-only,direct-with-normal-security
SPCSO4	ABBIED600_Rev6_SPC_pulse	Output 4		status-only,direct-with-normal-security
SPCSO5	ABBIED600_Rev6_SPC_pulse	Output 5		status-only,direct-with-normal-security
SPCSO6	ABBIED600_Rev6_SPC_pulse	Output 6		status-only,direct-with-normal-security
SPCSO7	ABBIED600_Rev6_SPC_pulse	Output 7		status-only,direct-with-normal-security
SPCSO8	ABBIED600_Rev6_SPC_pulse	Output 8		status-only,direct-with-normal-security
SPCSO9	ABBIED600_Rev6_SPC_pulse	Output 9		status-only,direct-with-normal-security

SPCSO10	ABBIED600_Rev6_SPC_pulse	Output 10		status-only,direct-with-normal-security
SPCSO11	ABBIED600_Rev6_SPC_pulse	Output 11		status-only,direct-with-normal-security
SPCSO12	ABBIED600_Rev6_SPC_pulse	Output 12		status-only,direct-with-normal-security
SPCSO13	ABBIED600_Rev6_SPC_pulse	Output 13		status-only,direct-with-normal-security
SPCSO14	ABBIED600_Rev6_SPC_pulse	Output 14		status-only,direct-with-normal-security
SPCSO15	ABBIED600_Rev6_SPC_pulse	Output 15		status-only,direct-with-normal-security
SPCSO16	ABBIED600_Rev6_SPC_pulse	Output 16		status-only,direct-with-normal-security
LocRemRst	ABBIED600_Rev1_SPG_SP_e	Loc Rem restriction	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.69 LN: SPCLGAPC1 Name: GAPC (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	AB-BIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
SPCSO1	ABBIED600_Rev6_SPC_pulse	Output 1		status-only,direct-with-normal-security
SPCSO2	ABBIED600_Rev6_SPC_pulse	Output 2		status-only,direct-with-normal-security
SPCSO3	ABBIED600_Rev6_SPC_pulse	Output 3		status-only,direct-with-normal-security
SPCSO4	ABBIED600_Rev6_SPC_pulse	Output 4		status-only,direct-with-normal-security
SPCSO5	ABBIED600_Rev6_SPC_pulse	Output 5		status-only,direct-with-normal-security
SPCSO6	ABBIED600_Rev6_SPC_pulse	Output 6		status-only,direct-with-normal-security
SPCSO7	ABBIED600_Rev6_SPC_pulse	Output 7		status-only,direct-with-normal-security
SPCSO8	ABBIED600_Rev6_SPC_pulse	Output 8		status-only,direct-with-normal-security
SPCSO9	ABBIED600_Rev6_SPC_pulse	Output 9		status-only,direct-with-normal-security
SPCSO10	ABBIED600_Rev6_SPC_pulse	Output 10		status-only,direct-with-normal-security

SPCSO11	ABBIED600_Rev6_SPC_pulse	Output 11		status-only,direct-with-normal-security
SPCSO12	ABBIED600_Rev6_SPC_pulse	Output 12		status-only,direct-with-normal-security
SPCSO13	ABBIED600_Rev6_SPC_pulse	Output 13		status-only,direct-with-normal-security
SPCSO14	ABBIED600_Rev6_SPC_pulse	Output 14		status-only,direct-with-normal-security
SPCSO15	ABBIED600_Rev6_SPC_pulse	Output 15		status-only,direct-with-normal-security
SPCSO16	ABBIED600_Rev6_SPC_pulse	Output 16		status-only,direct-with-normal-security
LocRemRst	ABBIED600_Rev1_SPG_SP_e	Loc Rem restriction	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.70 LN: SPCRGAPC1 Name: GACP (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	AB-BIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
SPCSO1	ABBIED600_Rev6_SPC_pulse	Output 1		status-only,direct-with-normal-security
SPCSO2	ABBIED600_Rev6_SPC_pulse	Output 2		status-only,direct-with-normal-security
SPCSO3	ABBIED600_Rev6_SPC_pulse	Output 3		status-only,direct-with-normal-security
SPCSO4	ABBIED600_Rev6_SPC_pulse	Output 4		status-only,direct-with-normal-security
SPCSO5	ABBIED600_Rev6_SPC_pulse	Output 5		status-only,direct-with-normal-security
SPCSO6	ABBIED600_Rev6_SPC_pulse	Output 6		status-only,direct-with-normal-security
SPCSO7	ABBIED600_Rev6_SPC_pulse	Output 7		status-only,direct-with-normal-security
SPCSO8	ABBIED600_Rev6_SPC_pulse	Output 8		status-only,direct-with-normal-security
SPCSO9	ABBIED600_Rev6_SPC_pulse	Output 9		status-only,direct-with-normal-security
SPCSO10	ABBIED600_Rev6_SPC_pulse	Output 10		status-only,direct-with-normal-security
SPCSO11	ABBIED600_Rev6_SPC_pulse	Output 11		status-only,direct-with-normal-security

SPCSO12	ABBIED600_Rev6_SPC_pulse	Output 12		status-only,direct-with-normal-security
SPCSO13	ABBIED600_Rev6_SPC_pulse	Output 13		status-only,direct-with-normal-security
SPCSO14	ABBIED600_Rev6_SPC_pulse	Output 14		status-only,direct-with-normal-security
SPCSO15	ABBIED600_Rev6_SPC_pulse	Output 15		status-only,direct-with-normal-security
SPCSO16	ABBIED600_Rev6_SPC_pulse	Output 16		status-only,direct-with-normal-security
LocRemRst	ABBIED600_Rev1_SPG_SP_e	Loc Rem restriction	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.71 LN: SECRSYN1 Name: RSYN (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Rel	ABBIED600_Rev1_SPS	Release		
VInd	ABBIED600_Rev1_SPS	Voltage Difference Indicator		
AngInd	ABBIED600_Rev1_SPS	Angle Difference Indicator		
HzInd	ABBIED600_Rev1_SPS	Frequency difference Indicator		
SynPrg	ABBIED600_Rev1_SPC_simple	Synchronising in progress		status-only
DifVClc	ABBIED600_Rev3_MV_simple_i	Calculated Difference in Voltage		
DifHzClc	ABBIED600_Rev3_MV_simple_i	Calculated Difference in Frequency		
DifAngClc	ABBIED600_Rev3_MV_simple_i	Calculated Difference of Phase Angle		
DifV	ABBIED600_Rev3_ASG_SG_i	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		
CBTmms	ABBIED600_Rev1_ING_SP_e	Closing time of the breaker	E	REx615 MICS:2014>IEC 61850-7-4:2003
FailCmd	ABBIED600_Rev1_SPS_e	CB closing request failed	E	REx615 MICS:2014>IEC 61850-7-4:2003
FailSyn	ABBIED600_Rev1_SPS_e	CB closing failed	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClrRq	ABBIED600_Rev1_SPS_e	External closing request	E	REx615 MICS:2014>IEC 61850-7-4:2003
Byps	ABBIED600_Rev1_SPS_e	Request to bypass synchronism check and voltage check	E	REx615 MICS:2014>IEC 61850-7-4:2003
LLDBInd	ABBIED600_Rev1_SPS_e	Live Line, Dead Bus	E	REx615 MICS:2014>IEC 61850-7-4:2003
LLLBIInd	ABBIED600_Rev1_SPS_e	Live Line, Live Bus	E	REx615 MICS:2014>IEC 61850-7-4:2003
DLLBInd	ABBIED600_Rev1_SPS_e	Dead Line, Live Bus	E	REx615 MICS:2014>IEC 61850-7-4:2003
DLDBInd	ABBIED600_Rev1_SPS_e	Dead Line, Dead Bus	E	REx615 MICS:2014>IEC 61850-7-4:2003
OpModSC	ABBIED600_Rev2_ENG_SP_Op-ModSC_e	Synchrocheck mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
OpModCtl	ABBIED600_Rev2_ENG_SP_Op-ModCtrl_e	Selection of synchro check command or Continuous control mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
EnSt	AB-BIED600_Rev2_ENS_EnergSt_e	Energization state of Line and Bus	E	REx615 MICS:2014>IEC 61850-7-4:2003
MaxVEn	ABBIED600_Rev3_ASG_SP_i_e	Maximum voltage for energizing	E	REx615 MICS:2014>IEC 61850-7-4:2003
PhSht	ABBIED600_Rev3_ASG_SP_i_e	Correction of phase difference between measured U_BUS and U_LINE	E	REx615 MICS:2014>IEC 61850-7-4:2003
EnTmms	ABBIED600_Rev1_ING_SP_e	Time delay for energizing check	E	REx615 MICS:2014>IEC 61850-7-4:2003
MaxSynTmms	ABBIED600_Rev1_ING_SP_e	Maximum time to accept synchronizing	E	REx615 MICS:2014>IEC 61850-7-4:2003
MinSynTmms	ABBIED600_Rev1_ING_SP_e	Minimum time to accept synchronizing	E	REx615 MICS:2014>IEC 61850-7-4:2003
TestCtl	AB-BIED600_Rev1_ENC_TestCtl_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.1.72 LN: HREFPDIF1 Name: PDIF (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
LoSet	ABBIED600_Rev3_ASG_SG_i	Low operate value, percentage of the nominal current		
MinOp-Tmms	ABBIED600_Rev1_ING_SG	Minimum Operate Time		
RsDITmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.1.73 LN: HIAPDIF1 Name: PDIF (ED1)

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		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
LoSet	ABBIED600_Rev3_ASG_SG_i	Low operate value, percentage of the nominal current		
MinOpTmms	ABBIED600_Rev1_ING_SG	Minimum Operate Time		
RsDITmms	ABBIED600_Rev1_ING_SP	Reset Delay Time		
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
TestPro	ABBIED600_Rev2_ENC_TestPro_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.1.74 LN: HIBPDIF1 Name: PDIF (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
LoSet	ABBIED600_Rev3_ASG_SG_i	Low operate value, percentage of the nominal current		
Mi-nOpTmms	ABBIED600_Rev1_ING_SG	Minimum Operate Time		
RsDITmms	ABBIED600_Rev1_ING_SP	Reset Delay Time		
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
TestPro	AB-BIED600_Rev2_ENC_TestPro_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.1.75 LN: HICPDIF1 Name: PDIF (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
LoSet	ABBIED600_Rev3_ASG_SG_i	Low operate value, percentage of the nominal current		
Mi-nOpTmms	ABBIED600_Rev1_ING_SG	Minimum Operate Time		
RsDITmms	ABBIED600_Rev1_ING_SP	Reset Delay Time		
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
TestPro	AB-BIED600_Rev2_ENC_TestPro_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.1.76 LN: LREFPDIF1 Name: PDIF (ED1)

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	LREFPNDF1		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
DifAClc	ABBIED600_Rev3_WYE_res_simple_i	ID_COSPHI		
RstA	ABBIED600_Rev3_WYE_res_simple_i	IB		
LoSet	ABBIED600_Rev3_ASG_SG_i	Operate value		
MinOp-Tmms	ABBIED600_Rev1_ING_SG	Minimum Operate Time		
RstMod	ABBIED600_Rev3_ENG_SG_RstMod	Restraint mode		
RsDITmms	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	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	LREFPNDF1	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
CTConnTyp	AB-BIED600_Rev2_ENG_SP_CTConnTyp_e	CT connection type	E	REx615 MICS:2014>IEC 61850-7-4:2003
Blk2HSt	ABBIED600_Rev1_ACT_simple_e	2nd harmonic restraint	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.77 LN: OLATCC1 Name: ATCC (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_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 operation		status-only,direct-with-normal-security
BndCtr	ABBIED600_Rev3_ASG_SG_i	Band center voltage		
BndWid	ABBIED600_Rev3_ASG_SP_i	Band width voltage		
CtlIDITmms	ABBIED600_Rev1_ING_SG	Control intentional time delay 1		
CtlID2Tmms	ABBIED600_Rev1_ING_SG_e	Control intentional time delay 2	E	REx615 MICS:2014>IEC 61850-7-4:2003
LDCR	ABBIED600_Rev3_ASG_SG_i	Line drop voltage due to line resistance component		
LDCX	ABBIED600_Rev3_ASG_SG_i	Line drop voltage due to line reactance component		
RnbkRV	ABBIED600_Rev3_ASG_SP_i	Runback raise voltage		
LimLodA	ABBIED600_Rev3_ASG_SP_i	Limit load current (LTC Block Load current)		
TmDlChr	ABBIED600_Rev1_SPG_SP	Time delay linear or inverse characteristics		
VRedVal	ABBIED600_Rev3_ASG_SG_i	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_Par-TrfMod_e	Auto parallel mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
TapOpErr	ABBIED600_Rev1_SPS	Alarm		

TapOpR	ABBIED600_Rev1_SPS	Raise command for own transformer		
TapOpL	ABBIED600_Rev1_SPS	Lower command for own transformer		
LTCBlkAHi	ABBIED600_Rev1_SPS	Block load current		
LTCBlkVLo	ABBIED600_Rev1_SPS	Block under voltage		
Blk	ABBIED600_Rev1_SPS	External block status		
ErrPar	ABBIED600_Rev1_SPS	Parallel failure		
VolSpt	ABBIED600_Rev4_APP_control	Voltage setpoint	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
LodPhAng	ABBIED600_Rev3_ASG_SP_i_e	Load phase angle	E	REx615 MICS:2014>IEC 61850-7-4:2003
StabFact	ABBIED600_Rev3_ASG_SP_i_e	Stability	E	REx615 MICS:2014>IEC 61850-7-4:2003
VCtlOpMod	ABBIED600_Rev2_ENG_SP_Op-ModSetATCC_e	Operation mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
LTCPIsTmms	ABBIED600_Rev1_ING_SP_e	Output pulse	E	REx615 MICS:2014>IEC 61850-7-4:2003
ManBlkTyp	ABBIED600_Rev2_ENG_SP_Man-BlkType_e	Manual blocking type	E	REx615 MICS:2014>IEC 61850-7-4:2003
LimCircA	ABBIED600_Rev3_ASG_SP_i_e	Circulating current limit	E	REx615 MICS:2014>IEC 61850-7-4:2003
LimLDC	ABBIED600_Rev3_ASG_SP_i_e	Line Drop Compensation limit	E	REx615 MICS:2014>IEC 61850-7-4:2003
LDCEna	ABBIED600_Rev1_SPG_SP_e	Line Drop Compensation enable	E	REx615 MICS:2014>IEC 61850-7-4:2003
RPFAllw	ABBIED600_Rev1_SPG_SP_e	Reverse power flow allwd	E	REx615 MICS:2014>IEC 61850-7-4:2003
OpTmhMax	ABBIED600_Rev1_ING_SP_1_e	Max operations in 1h	E	REx615 MICS:2014>IEC 61850-7-4:2003
CmdErrTms	ABBIED600_Rev1_ING_SP_1_e	Command error delay	E	REx615 MICS:2014>IEC 61850-7-4:2003
FllwDITms	ABBIED600_Rev1_ING_SP_1_e	Follower delay	E	REx615 MICS:2014>IEC 61850-7-4:2003
AlmEna	ABBIED600_Rev1_SPG_SP_e	Alarms enabled	E	REx615 MICS:2014>IEC 61850-7-4:2003
CntRs	ABBIED600_Rev2_SPC_control_e	Counter reset	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
TapOpFllw1	ABBIED600_Rev1_INS_e	Change follower 1 tap position command from master (stop, lower, higher)	E	REx615 MICS:2014>IEC 61850-7-4:2003
TapOpFllw2	ABBIED600_Rev1_INS_e	Change follower 2 tap position command from master (stop, lower, higher)	E	REx615 MICS:2014>IEC 61850-7-4:2003

TapOpFllw3	ABBIED600_Rev1_INS_e	Change follower 3 tap position command from master (stop, lower, higher)	E	REx615 MICS:2014>IEC 61850-7-4:2003
LodAVec	ABBIED600_Rev3_CMV_S_1_e	Transmitted current phasor	E	REx615 MICS:2014>IEC 61850-7-4:2003
VMeas	ABBIED600_Rev3_MV_simple_i_e	Voltage, average filtered	E	REx615 MICS:2014>IEC 61850-7-4:2003
AngVAPhA	ABBIED600_Rev3_MV_simple_i_e	Angle U_A-I_A	E	REx615 MICS:2014>IEC 61850-7-4:2003
CtlDIOOn	ABBIED600_Rev2_ENS_TimerOn_e	Timer status	E	REx615 MICS:2014>IEC 61850-7-4:2003
CtlOpModSt	ABBIED600_Rev2_ENS_OpModATCC_e	Acting oper mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
CtlVDif	ABBIED600_Rev3_MV_simple_i_e	Voltage difference	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClcLDC	ABBIED600_Rev3_MV_simple_i_e	Calculated Line Drop Compensation	E	REx615 MICS:2014>IEC 61850-7-4:2003
BlkSt	ABBIED600_Rev1_INS_e	Block status	E	REx615 MICS:2014>IEC 61850-7-4:2003
LTCRnbk	ABBIED600_Rev1_SPS_e	Block runback raise voltage	E	REx615 MICS:2014>IEC 61850-7-4:2003
CircAHiBlk	ABBIED600_Rev1_SPS_e	Block circulating current	E	REx615 MICS:2014>IEC 61850-7-4:2003
AlmReas	ABBIED600_Rev2_ENS_AlarmReas_e	Alarm reason	E	REx615 MICS:2014>IEC 61850-7-4:2003
FllwFlt	ABBIED600_Rev2_ENS_FllwFlt_e	Failed followers	E	REx615 MICS:2014>IEC 61850-7-4:2003
NumParUnit	ABBIED600_Rev2_ENS_ParUnits_e	Parallel units in MCC	E	REx615 MICS:2014>IEC 61850-7-4:2003
Trf1TapPos	ABBIED600_Rev1_INS_e	Trafo 1 tap position	E	REx615 MICS:2014>IEC 61850-7-4:2003
Trf2TapPos	ABBIED600_Rev1_INS_e	Trafo 2 tap position	E	REx615 MICS:2014>IEC 61850-7-4:2003
Trf3TapPos	ABBIED600_Rev1_INS_e	Trafo 3 tap position	E	REx615 MICS:2014>IEC 61850-7-4:2003
TapChgFllw	ABBIED600_Rev1_INS_e	Change follower tap position (stop, lower, higher)	E	REx615 MICS:2014>IEC 61850-7-4:2003
InConSt	ABBIED600_Rev1_SPS_e	Connection status	E	REx615 MICS:2014>IEC 61850-7-4:2003
InLTCOp	ABBIED600_Rev1_SPS_e	Tap Changer Operating	E	REx615 MICS:2014>IEC 61850-7-4:2003
Trf1A	ABBIED600_Rev3_CMV_S_1_e	Received current from transformer 1	E	REx615 MICS:2014>IEC 61850-7-4:2003
Trf2A	ABBIED600_Rev3_CMV_S_1_e	Received current from transformer 2	E	REx615 MICS:2014>IEC 61850-7-4:2003
Trf3A	ABBIED600_Rev3_CMV_S_1_e	Received current from transformer 3	E	REx615 MICS:2014>IEC 61850-7-4:2003

ParTrfNum	ABBIED600_Rev1_ING_SP_1_e	Parallel trafos	E	REx615 MICS:2014>IEC 61850-7-4:2003
TestCtl	ABBIED600_Rev1_ENC_TestCtl_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
OpTmhNum	ABBIED600_Rev1_INS_e	Controls per last 1h	E	REx615 MICS:2014>IEC 61850-7-4:2003
TapChgR	ABBIED600_Rev1_SPS_e	RAISE_LOCAL	E	REx615 MICS:2014>IEC 61850-7-4:2003
TapChgL	ABBIED600_Rev1_SPS_e	LOWER_LOCAL	E	REx615 MICS:2014>IEC 61850-7-4:2003
CtlDISt	ABBIED600_Rev1_SPS_e	Timer on	E	REx615 MICS:2014>IEC 61850-7-4:2003
InAuto	ABBIED600_Rev1_SPS_e	Input auto operation	E	REx615 MICS:2014>IEC 61850-7-4:2003
InParOp	ABBIED600_Rev1_SPS_e	Input parallel operation	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.78 LN: RESTVTR2 Name: TVTR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Mode		
Health	ABBIED600_Rev4_ENS_health	Mode		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
VolSv	ABBIED600_Rev1_SAV_92_lite	Voltage (sampled value)		
VRtg	AB-BIED600_Rev3_ASG_SP_ARtg_VRtg	Rated primary voltage		
Cor	ABBIED600_Rev1_ASG_SP_f	Voltage phasor magnitude correction of external voltage transformer		
AngCor	ABBIED600_Rev3_ASG_SP_i	Residual Voltage phasor angle correction of an external voltage transformer		
Alm	ABBIED600_Rev1_SPS	Alarm		
Wrn	ABBIED600_Rev1_SPS	Warning		
VRtgScy	ABBIED600_Rev1_ASG_SP_f_e	Rated secondary voltage	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.79 LN: EFPADM1 Name: PADM (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD_e	Mode	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh_e	Behaviour	E	REx615 MICS:2014>IEC 61850-7-4:2003

Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_InNs_1_e	Name plate	E	REx615 MICS:2014>IEC 61850-7-4:2003
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple_e	Start	E	REx615 MICS:2014>IEC 61850-7-4:2003
Op	ABBIED600_Rev1_ACT_simple_e	Operate	E	REx615 MICS:2014>IEC 61850-7-4:2003
VStr	ABBIED600_Rev3_ASG_SG_i_e	Voltage Start Value	E	REx615 MICS:2014>IEC 61850-7-4:2003
OpDITmms	ABBIED600_Rev1_ING_SG_e	Operate Delay Time	E	REx615 MICS:2014>IEC 61850-7-4:2003
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_Dir-Mod_e	Directional Mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
RsDITmms	ABBIED600_Rev1_ING_SP_1_e	Reset Delay Time	E	REx615 MICS:2014>IEC 61850-7-4:2003
OpModAdm	ABBIED600_Rev2_ENG_SG_Op-ModAdm	Operation mode		
BlkValA	ABBIED600_Rev3_ASG_SP_i_e	Minimum operating current	E	REx615 MICS:2014>IEC 61850-7-4:2003
BlkValV	ABBIED600_Rev3_ASG_SP_i_e	Minimum operating voltage	E	REx615 MICS:2014>IEC 61850-7-4:2003
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	AB-BIED600_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_Ad-mClcMod	Admittance calculation mode		

6.1.80 LN: DARREC1 Name: RREC (ED1)

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		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
OpCntRs	ABBIED600_Rev1_INC_simple_int_e	Resetable operation counter (all shots)		status-only
RecCyc	ABBIED600_Rev1_INS	Actual reclose cycle (number between 1 and UseCyc)		
OpCIs	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)		
BlkRec	ABBIED600_Rev2_SPC_control_e	Block reclose		status-only,direct-with-normal-security
RecCnt1	ABBIED600_Rev1_INS_e	Operation counter (1st shot)	E	REx615 MICS:2014>IEC 61850-7-4:2003
RecCnt2	ABBIED600_Rev1_INS_e	Operation counter (2nd shot)	E	REx615 MICS:2014>IEC 61850-7-4:2003
RecCnt3	ABBIED600_Rev1_INS_e	Operation counter (3rd shot)	E	REx615 MICS:2014>IEC 61850-7-4:2003
RecCnt4	ABBIED600_Rev1_INS_e	Operation counter (4th shot)	E	REx615 MICS:2014>IEC 61850-7-4:2003
RecCnt5	ABBIED600_Rev1_INS_e	Operation counter (5th shot)	E	REx615 MICS:2014>IEC 61850-7-4:2003
AutoInI	ABBIED600_Rev1_ING_SP_1_e	Auto init	E	REx615 MICS:2014>IEC 61850-7-4:2003
RecOp	ABBIED600_Rev2_ENG_SP_recOp_e	Reclosing operation	E	REx615 MICS:2014>IEC 61850-7-4:2003
ManClMod	ABBIED600_Rev1_SPG_SP_e	Manual close mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
WtClTmms	ABBIED600_Rev1_ING_SP_e	Wait close time	E	REx615 MICS:2014>IEC 61850-7-4:2003
MaxWtTmms	ABBIED600_Rev1_ING_SP_e	Max wait time	E	REx615 MICS:2014>IEC 61850-7-4:2003
Max-BlkTmms	ABBIED600_Rev1_ING_SP_e	Max Thm block time	E	REx615 MICS:2014>IEC 61850-7-4:2003
CutOutT-mms	ABBIED600_Rev1_ING_SP_e	Cut-out time	E	REx615 MICS:2014>IEC 61850-7-4:2003
DsrTmms1	ABBIED600_Rev1_ING_SP_e	Dsr time shot 1	E	REx615 MICS:2014>IEC 61850-7-4:2003
DsrTmms2	ABBIED600_Rev1_ING_SP_e	Dsr time shot 2	E	REx615 MICS:2014>IEC 61850-7-4:2003
DsrTmms3	ABBIED600_Rev1_ING_SP_e	Dsr time shot 3	E	REx615 MICS:2014>IEC 61850-7-4:2003
DsrTmms4	ABBIED600_Rev1_ING_SP_e	Dsr time shot 4	E	REx615 MICS:2014>IEC 61850-7-4:2003
TermPrio	ABBIED600_Rev2_ENG_SP_term-Prio_e	Terminal priority	E	REx615 MICS:2014>IEC 61850-7-4:2003

SynSet	ABBIED600_Rev1_ING_SP_1_e	Synchronisation set	E	REx615 MICS:2014>IEC 61850-7-4:2003
AutoWtT-mms	ABBIED600_Rev1_ING_SP_e	Auto wait time	E	REx615 MICS:2014>IEC 61850-7-4:2003
AutoLORs	ABBIED600_Rev1_SPG_SP_e	Auto lockout reset	E	REx615 MICS:2014>IEC 61850-7-4:2003
ProCrdLim	ABBIED600_Rev1_ING_SP_1_e	Protection crd limit	E	REx615 MICS:2014>IEC 61850-7-4:2003
ProCrdMod	ABBIED600_Rev2_ENG_SP_proCrd-Mod_e	Protection crd mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
AutoIniCnd	ABBIED600_Rev2_ENG_SP_autoIn-iCnd_e	Auto initiation cnd	E	REx615 MICS:2014>IEC 61850-7-4:2003
TrLin	ABBIED600_Rev1_ING_SP_1_e	Tripping line	E	REx615 MICS:2014>IEC 61850-7-4:2003
CtlLin	ABBIED600_Rev1_ING_SP_1_e	Control line	E	REx615 MICS:2014>IEC 61850-7-4:2003
EnaShotJmp	ABBIED600_Rev1_SPG_SP_e	Enable shot jump	E	REx615 MICS:2014>IEC 61850-7-4:2003
CBCIsPosSt	ABBIED600_Rev1_SPG_SP_e	CB closed Pos status	E	REx615 MICS:2014>IEC 61850-7-4:2003
Ena4DISOF	ABBIED600_Rev1_SPG_SP_e	Fourth delay in SOTF	E	REx615 MICS:2014>IEC 61850-7-4:2003
IniSigCBB1	ABBIED600_Rev1_ING_SP_1_e	Init signals CBB1	E	REx615 MICS:2014>IEC 61850-7-4:2003
IniSigCBB2	ABBIED600_Rev1_ING_SP_1_e	Init signals CBB2	E	REx615 MICS:2014>IEC 61850-7-4:2003
IniSigCBB3	ABBIED600_Rev1_ING_SP_1_e	Init signals CBB3	E	REx615 MICS:2014>IEC 61850-7-4:2003
IniSigCBB4	ABBIED600_Rev1_ING_SP_1_e	Init signals CBB4	E	REx615 MICS:2014>IEC 61850-7-4:2003
IniSigCBB5	ABBIED600_Rev1_ING_SP_1_e	Init signals CBB5	E	REx615 MICS:2014>IEC 61850-7-4:2003
IniSigCBB6	ABBIED600_Rev1_ING_SP_1_e	Init signals CBB6	E	REx615 MICS:2014>IEC 61850-7-4:2003
IniSigCBB7	ABBIED600_Rev1_ING_SP_1_e	Init signals CBB7	E	REx615 MICS:2014>IEC 61850-7-4:2003
BlkSigCBB1	ABBIED600_Rev1_ING_SP_1_e	Blk signals CBB1	E	REx615 MICS:2014>IEC 61850-7-4:2003
BlkSigCBB2	ABBIED600_Rev1_ING_SP_1_e	Blk signals CBB2	E	REx615 MICS:2014>IEC 61850-7-4:2003
BlkSigCBB3	ABBIED600_Rev1_ING_SP_1_e	Blk signals CBB3	E	REx615 MICS:2014>IEC 61850-7-4:2003
BlkSigCBB4	ABBIED600_Rev1_ING_SP_1_e	Blk signals CBB4	E	REx615 MICS:2014>IEC 61850-7-4:2003
BlkSigCBB5	ABBIED600_Rev1_ING_SP_1_e	Blk signals CBB5	E	REx615 MICS:2014>IEC 61850-7-4:2003
BlkSigCBB6	ABBIED600_Rev1_ING_SP_1_e	Blk signals CBB6	E	REx615 MICS:2014>IEC 61850-7-4:2003

BlkSigCBB7	ABBIED600_Rev1_ING_SP_1_e	Blk signals CBB7	E	REx615 MICS:2014>IEC 61850-7-4:2003
ShotNum1	ABBIED600_Rev1_ING_SP_1_e	Shot number CBB1	E	REx615 MICS:2014>IEC 61850-7-4:2003
ShotNum2	ABBIED600_Rev1_ING_SP_1_e	Shot number CBB2	E	REx615 MICS:2014>IEC 61850-7-4:2003
ShotNum3	ABBIED600_Rev1_ING_SP_1_e	Shot number CBB3	E	REx615 MICS:2014>IEC 61850-7-4:2003
ShotNum4	ABBIED600_Rev1_ING_SP_1_e	Shot number CBB4	E	REx615 MICS:2014>IEC 61850-7-4:2003
ShotNum5	ABBIED600_Rev1_ING_SP_1_e	Shot number CBB5	E	REx615 MICS:2014>IEC 61850-7-4:2003
ShotNum6	ABBIED600_Rev1_ING_SP_1_e	Shot number CBB6	E	REx615 MICS:2014>IEC 61850-7-4:2003
ShotNum7	ABBIED600_Rev1_ING_SP_1_e	Shot number CBB7	E	REx615 MICS:2014>IEC 61850-7-4:2003
Str2Tmms1	ABBIED600_Rev1_ING_SP_e	Str 2 delay shot 1	E	REx615 MICS:2014>IEC 61850-7-4:2003
Str2Tmms2	ABBIED600_Rev1_ING_SP_e	Str 2 delay shot 2	E	REx615 MICS:2014>IEC 61850-7-4:2003
Str2Tmms3	ABBIED600_Rev1_ING_SP_e	Str 2 delay shot 3	E	REx615 MICS:2014>IEC 61850-7-4:2003
Str2Tmms4	ABBIED600_Rev1_ING_SP_e	Str 2 delay shot 4	E	REx615 MICS:2014>IEC 61850-7-4:2003
Str3Tmms1	ABBIED600_Rev1_ING_SP_e	Str 3 delay shot 1	E	REx615 MICS:2014>IEC 61850-7-4:2003
Str3Tmms2	ABBIED600_Rev1_ING_SP_e	Str 3 delay shot 2	E	REx615 MICS:2014>IEC 61850-7-4:2003
Str3Tmms3	ABBIED600_Rev1_ING_SP_e	Str 3 delay shot 3	E	REx615 MICS:2014>IEC 61850-7-4:2003
Str3Tmms4	ABBIED600_Rev1_ING_SP_e	Str 3 delay shot 4	E	REx615 MICS:2014>IEC 61850-7-4:2003
Str4Tmms1	ABBIED600_Rev1_ING_SP_e	Str 4 delay shot 1	E	REx615 MICS:2014>IEC 61850-7-4:2003
Str4Tmms2	ABBIED600_Rev1_ING_SP_e	Str 4 delay shot 2	E	REx615 MICS:2014>IEC 61850-7-4:2003
Str4Tmms3	ABBIED600_Rev1_ING_SP_e	Str 4 delay shot 3	E	REx615 MICS:2014>IEC 61850-7-4:2003
Str4Tmms4	ABBIED600_Rev1_ING_SP_e	Str 4 delay shot 4	E	REx615 MICS:2014>IEC 61850-7-4:2003
FrqCntLim	ABBIED600_Rev1_ING_SP_1_e	Frq Op counter limit	E	REx615 MICS:2014>IEC 61850-7-4:2003
FrqCntTmm	ABBIED600_Rev1_ING_SP_1_e	Frq Op counter time	E	REx615 MICS:2014>IEC 61850-7-4:2003
FrqRcvTmm	ABBIED600_Rev1_ING_SP_1_e	Frq Op recovery time	E	REx615 MICS:2014>IEC 61850-7-4:2003
PlsTmms	ABBIED600_Rev1_ING_SP_e	Close pulse time		
MaxTrTmms	ABBIED600_Rev1_ING_SP_e	Max trip time	E	REx615 MICS:2014>IEC 61850-7-4:2003

InInhRec	ABBIED600_Rev1_SPS_e	Inhibit reclose (status)	E	REx615 MICS:2014>IEC 61850-7-4:2003
InBlkThm	ABBIED600_Rev1_SPS_e	Thermal block (status)	E	REx615 MICS:2014>IEC 61850-7-4:2003
LO	ABBIED600_Rev1_SPS_e	Lockout status	E	REx615 MICS:2014>IEC 61850-7-4:2003
RdyRec	ABBIED600_Rev1_SPS_e	Ready reclose status	E	REx615 MICS:2014>IEC 61850-7-4:2003
ActRec	ABBIED600_Rev1_SPS_e	Active reclose status	E	REx615 MICS:2014>IEC 61850-7-4:2003
SucRec	ABBIED600_Rev1_SPS_e	Successful re-close status	E	REx615 MICS:2014>IEC 61850-7-4:2003
UnsRec	ABBIED600_Rev1_SPS_e	Unsuccessful re-close status	E	REx615 MICS:2014>IEC 61850-7-4:2003
PrgRec	ABBIED600_Rev1_SPS_e	In progress status	E	REx615 MICS:2014>IEC 61850-7-4:2003
UnsCBCls	ABBIED600_Rev1_SPS_e	Unsuccessful CB closing status	E	REx615 MICS:2014>IEC 61850-7-4:2003
WtMstr	ABBIED600_Rev1_SPS_e	Master signal to follower	E	REx615 MICS:2014>IEC 61850-7-4:2003
PrgRec1	ABBIED600_Rev1_SPS_e	In progress 1st re-close	E	REx615 MICS:2014>IEC 61850-7-4:2003
PrgRec2	ABBIED600_Rev1_SPS_e	In progress 2nd reclose	E	REx615 MICS:2014>IEC 61850-7-4:2003
PrgRec3	ABBIED600_Rev1_SPS_e	In progress 3rd reclose	E	REx615 MICS:2014>IEC 61850-7-4:2003
PrgRec4	ABBIED600_Rev1_SPS_e	In progress 4th re-close	E	REx615 MICS:2014>IEC 61850-7-4:2003
PrgRec5	ABBIED600_Rev1_SPS_e	In progress 5th re-close	E	REx615 MICS:2014>IEC 61850-7-4:2003
PrgDsr	ABBIED600_Rev1_SPS_e	Discrimination time in progress	E	REx615 MICS:2014>IEC 61850-7-4:2003
PrgCutOut	ABBIED600_Rev1_SPS_e	Cutout time in progress	E	REx615 MICS:2014>IEC 61850-7-4:2003
FrqOpCnt	ABBIED600_Rev1_INS_e	Frequent operation counter	E	REx615 MICS:2014>IEC 61850-7-4:2003
FrqOpAlm	ABBIED600_Rev1_SPS_e	Frequent operation counter alarm	E	REx615 MICS:2014>IEC 61850-7-4:2003
RecRs	ABBIED600_Rev2_SPC_control_e	DARREC1 reset	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
CntRs	ABBIED600_Rev2_SPC_control_e	DARREC1 counters	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
DsaCnt	ABBIED600_Rev2_SPC_control_e	Signal for counter disabling	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security

RclTmStr	ABBIED600_Rev1_SPS_e	Reclaim time started	E	REx615 MICS:2014>IEC 61850-7-4:2003
ProCrd	ABBIED600_Rev1_SPS_e	Protection coordination	E	REx615 MICS:2014>IEC 61850-7-4:2003
CBManClIs	ABBIED600_Rev1_SPS_e	CB manually closed	E	REx615 MICS:2014>IEC 61850-7-4:2003
AutoRecOn	ABBIED600_Rev1_SPS_e	AR switched On	E	REx615 MICS:2014>IEC 61850-7-4:2003
ShotPntr	ABBIED600_Rev1_INS_e	Shot pointer value	E	REx615 MICS:2014>IEC 61850-7-4:2003
InRecOn	ABBIED600_Rev1_SPS_e	AR on/off control signal status	E	REx615 MICS:2014>IEC 61850-7-4:2003
InBlkRclTm	ABBIED600_Rev1_SPS_e	Block reclaim time	E	REx615 MICS:2014>IEC 61850-7-4:2003
InCBPos	ABBIED600_Rev1_SPS_e	CB position input	E	REx615 MICS:2014>IEC 61850-7-4:2003
InCBRdy	ABBIED600_Rev1_SPS_e	CB ready for re-closing	E	REx615 MICS:2014>IEC 61850-7-4:2003
InSynChk	ABBIED600_Rev1_SPS_e	Synchro check fulfilled	E	REx615 MICS:2014>IEC 61850-7-4:2003
InIncrPntr	ABBIED600_Rev1_SPS_e	Shot pointer increment by one	E	REx615 MICS:2014>IEC 61850-7-4:2003
InIni1	ABBIED600_Rev1_SPS_e	No 1 operate signal	E	REx615 MICS:2014>IEC 61850-7-4:2003
InIni2	ABBIED600_Rev1_SPS_e	No 2 operate signal	E	REx615 MICS:2014>IEC 61850-7-4:2003
InIni3	ABBIED600_Rev1_SPS_e	No 3 operate signal	E	REx615 MICS:2014>IEC 61850-7-4:2003
InIni4	ABBIED600_Rev1_SPS_e	No 4 operate signal	E	REx615 MICS:2014>IEC 61850-7-4:2003
InIni5	ABBIED600_Rev1_SPS_e	No 5 operate signal	E	REx615 MICS:2014>IEC 61850-7-4:2003
InIni6	ABBIED600_Rev1_SPS_e	No 6 operate signal	E	REx615 MICS:2014>IEC 61850-7-4:2003
InDlIni2	ABBIED600_Rev1_SPS_e	No 2 start signal	E	REx615 MICS:2014>IEC 61850-7-4:2003
InDlIni3	ABBIED600_Rev1_SPS_e	No 3 start signal	E	REx615 MICS:2014>IEC 61850-7-4:2003
InDlIni4	ABBIED600_Rev1_SPS_e	No 4 start signal	E	REx615 MICS:2014>IEC 61850-7-4:2003
RclTmEla	ABBIED600_Rev1_SPS_e	Reclaim time elapsed	E	REx615 MICS:2014>IEC 61850-7-4:2003
InBlkRecTm	ABBIED600_Rev1_SPS_e	Blocks and resets dead time	E	REx615 MICS:2014>IEC 61850-7-4:2003
SOF	ABBIED600_Rev1_SPS_e	Switch on the fault	E	REx615 MICS:2014>IEC 61850-7-4:2003
TestCtl	ABBIED600_Rev1_ENC_TestCtl_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.1.81 LN: PH1QVVR1 Name: QVVR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
VarStr	ABBIED600_Rev1_SPS	Start Phase A (Voltage Variation Event in progress)		
DipStr	ABBIED600_Rev1_SPS	Start (Voltage Dip Event in progress)		
SwlStr	ABBIED600_Rev1_SPS	Start (Voltage Swell Event in progress)		
IntrStr	ABBIED600_Rev1_SPS	Start (Voltage Interruption Event in progress)		
VarEnd	ABBIED600_Rev1_SPS	Event finished but not Reset		
VVa	ABBIED600_Rev3_MV_simple_i	Voltage Variation Magnitude of the last completed event		
VVaTm	ABBIED600_Rev3_MV_simple_i	Voltage Variation Duration of the last completed event		
OpCntRs	ABBIED600_Rev2_INC_control_int	Resettable operation counter		status-only,direct-with-normal-security
DipStrVal	ABBIED600_Rev3_ASG_SG_i	Voltage Dip Set Point 1		
DipStr2Val	ABBIED600_Rev3_ASG_SG_i_e	Voltage Dip Set Point 2	E	REx615 MICS:2014>IEC 61850-7-4:2003
DipStr3Val	ABBIED600_Rev3_ASG_SG_i_e	Voltage Dip Set Point 3	E	REx615 MICS:2014>IEC 61850-7-4:2003
SwlStrVal	ABBIED600_Rev3_ASG_SG_i	Voltage Swell Set Point 1		
SwlStr2Val	ABBIED600_Rev3_ASG_SG_i_e	Voltage Swell Set Point 2	E	REx615 MICS:2014>IEC 61850-7-4:2003
SwlStr3Val	ABBIED600_Rev3_ASG_SG_i_e	Voltage Swell Set Point 3	E	REx615 MICS:2014>IEC 61850-7-4:2003

IntrStrVal	ABBIED600_Rev3_ASG_SG_i	Voltage Interruption Set Point		
RefV	ABBIED600_Rev3_ASG_SG_i_e	Reference supply voltage in %	E	REx615 MICS:2014>IEC 61850-7-4:2003
Dip1Cyc	ABBIED600_Rev3_ASG_SG_i_e	Voltage variation dip duration 1	E	REx615 MICS:2014>IEC 61850-7-4:2003
Dip2Cyc	ABBIED600_Rev3_ASG_SG_i_e	Voltage variation dip duration 2	E	REx615 MICS:2014>IEC 61850-7-4:2003
Dip3Tmms	ABBIED600_Rev1_ING_SG_e	Voltage variation dip duration 3	E	REx615 MICS:2014>IEC 61850-7-4:2003
Swl1Cyc	ABBIED600_Rev3_ASG_SG_i_e	Voltage variation swell duration 1	E	REx615 MICS:2014>IEC 61850-7-4:2003
Swl2Cyc	ABBIED600_Rev3_ASG_SG_i_e	Voltage variation swell duration 2	E	REx615 MICS:2014>IEC 61850-7-4:2003
Swl3Tmms	ABBIED600_Rev1_ING_SG_e	Voltage variation swell duration 3	E	REx615 MICS:2014>IEC 61850-7-4:2003
Intr1Cyc	ABBIED600_Rev3_ASG_SG_i_e	Voltage variation interruption duration 1	E	REx615 MICS:2014>IEC 61850-7-4:2003
Intr2Cyc	ABBIED600_Rev3_ASG_SG_i_e	Voltage variation interruption duration 2	E	REx615 MICS:2014>IEC 61850-7-4:2003
Intr3Tmms	ABBIED600_Rev1_ING_SG_e	Voltage variation interruption duration 3	E	REx615 MICS:2014>IEC 61850-7-4:2003
MaxDurTmms	ABBIED600_Rev1_ING_SG_e	Maximum voltage variation duration	E	REx615 MICS:2014>IEC 61850-7-4:2003
SwlOp	ABBIED600_Rev1_SPS_e	Voltage Event Swell detected	E	REx615 MICS:2014>IEC 61850-7-4:2003
DipOp	ABBIED600_Rev1_SPS_e	Voltage Event Dip detected	E	REx615 MICS:2014>IEC 61850-7-4:2003
IntrOp	ABBIED600_Rev1_SPS_e	Voltage Event Interruption detected	E	REx615 MICS:2014>IEC 61850-7-4:2003
APreVa	ABBIED600_Rev3_MV_simple_i_e	Current magnitude Ph A preceding variation	E	REx615 MICS:2014>IEC 61850-7-4:2003
SwlInstCnt	ABBIED600_Rev1_INS_e	Instantaneous swell operation counter	E	REx615 MICS:2014>IEC 61850-7-4:2003
SwlMomCnt	ABBIED600_Rev1_INS_e	Momentary swell operation counter	E	REx615 MICS:2014>IEC 61850-7-4:2003
SwlTmpCnt	ABBIED600_Rev1_INS_e	Temporary swell operation counter	E	REx615 MICS:2014>IEC 61850-7-4:2003
SwlMaxCnt	ABBIED600_Rev1_INS_e	Maximum duration swell operation counter	E	REx615 MICS:2014>IEC 61850-7-4:2003

DipInstCnt	ABBIED600_Rev1_INS_e	Instantaneous dip operation counter	E	REx615 MICS:2014>IEC 61850-7-4:2003
DipTmpCnt	ABBIED600_Rev1_INS_e	Temporary dip operation counter	E	REx615 MICS:2014>IEC 61850-7-4:2003
DipMomCnt	ABBIED600_Rev1_INS_e	Momentary dip operation counter	E	REx615 MICS:2014>IEC 61850-7-4:2003
DipMaxCnt	ABBIED600_Rev1_INS_e	Maximum duration dip operation counter	E	REx615 MICS:2014>IEC 61850-7-4:2003
IntrMomCnt	ABBIED600_Rev1_INS_e	Momentary interruption operation counter	E	REx615 MICS:2014>IEC 61850-7-4:2003
IntrTmpCnt	ABBIED600_Rev1_INS_e	Temporary interruption operation counter	E	REx615 MICS:2014>IEC 61850-7-4:2003
IntrSstCnt	ABBIED600_Rev1_INS_e	Sustained interruption operation counter	E	REx615 MICS:2014>IEC 61850-7-4:2003
IntrMaxCnt	ABBIED600_Rev1_INS_e	Maximum duration interruption operation counter	E	REx615 MICS:2014>IEC 61850-7-4:2003
RsCnt	ABBIED600_Rev2_SPC_control_e	Counters reset	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
PhSpvn	ABBIED600_Rev2_ENG_SP_PhSv_e	Monitored phase	E	REx615 MICS:2014>IEC 61850-7-4:2003
OpModPh	ABBIED600_Rev2_ENG_SP_Op-ModPh_e	Phase mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
VVaEna	AB-BIED600_Rev3_ENG_SP_VVaTyp_e	Variation enable	E	REx615 MICS:2014>IEC 61850-7-4:2003
VaOp	ABBIED600_Rev1_SPS_e	Voltage Event detected	E	REx615 MICS:2014>IEC 61850-7-4:2003
VaStrGen	ABBIED600_Rev1_SPS_e	Start (Voltage Variation Event in progress)	E	REx615 MICS:2014>IEC 61850-7-4:2003
VVaTyp	ABBIED600_Rev3_ENS_VVaTyp_e	Voltage variation type	E	REx615 MICS:2014>IEC 61850-7-4:2003
RcdRs	ABBIED600_Rev2_SPC_control_e	Recorded data reset	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.1.82 LN: PH2QVVR1 Name: QVVR (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	AB-BIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
VarStr	ABBIED600_Rev1_SPS	Start Phase B (Voltage Variation Event in progress)	E	REx615 MICS:2014>IEC 61850-7-4:2003
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	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.83 LN: PH3QVVR1 Name: QVVR (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	AB-BIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
VarStr	ABBIED600_Rev1_SPS	Start Phase C (Voltage Variation Event in progress)	E	REx615 MICS:2014>IEC 61850-7-4:2003
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	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.84 LN: QVV1RQRC1 Name: RQRC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_ENC_Mod_On_e	Mode	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only
Beh	ABBIED600_Rev2_ENS_beh_e	Behaviour	E	REx615 MICS:2014>IEC 61850-7-4:2003
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_InNs_1_e	Name plate	E	REx615 MICS:2014>IEC 61850-7-4:2003

VVaTyp	AB-BIED600_Rev3_ENS_VVaTyp_e	Voltage variation type	E	REx615 MICS:2014>IEC 61850-7-4:2003
VVaPhsA	ABBIED600_Rev3_MV_simple_i_e	VVa Magn phase A of the newest completed event	E	REx615 MICS:2014>IEC 61850-7-4:2003
VVaPhsB	ABBIED600_Rev3_MV_simple_i_e	VVa Magn phase B of the newest completed event	E	REx615 MICS:2014>IEC 61850-7-4:2003
VVaPhsC	ABBIED600_Rev3_MV_simple_i_e	VVa Magn phase C of the newest completed event	E	REx615 MICS:2014>IEC 61850-7-4:2003
VVaTmPhsA	ABBIED600_Rev3_MV_simple_i_e	VVa Phase A Dur of the newest completed event	E	REx615 MICS:2014>IEC 61850-7-4:2003
VVaTmPhsB	ABBIED600_Rev3_MV_simple_i_e	VVa Phase B Dur of the newest completed event	E	REx615 MICS:2014>IEC 61850-7-4:2003
VVaTmPhsC	ABBIED600_Rev3_MV_simple_i_e	VVa Phase C Dur of the newest completed event	E	REx615 MICS:2014>IEC 61850-7-4:2003
APreVaPhsA	ABBIED600_Rev3_MV_simple_i_e	I_A preceding Va start of the newest completed event	E	REx615 MICS:2014>IEC 61850-7-4:2003
APreVaPhsB	ABBIED600_Rev3_MV_simple_i_e	I_B preceding Va start of the newest completed event	E	REx615 MICS:2014>IEC 61850-7-4:2003
APreVaPhsC	ABBIED600_Rev3_MV_simple_i_e	I_C preceding Va start of the newest completed event	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.85 LN: QVV2RQRC1 Name: RQRC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_ENC_Mod_On_e	Mode	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only
Beh	ABBIED600_Rev2_ENS_beh_e	Behaviour	E	REx615 MICS:2014>IEC 61850-7-4:2003
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_InNs_1_e	Name plate	E	REx615 MICS:2014>IEC 61850-7-4:2003
VVaTyp	AB-BIED600_Rev3_ENS_VVaTyp_e	Voltage variation type	E	REx615 MICS:2014>IEC 61850-7-4:2003
VVaPhsA	ABBIED600_Rev3_MV_simple_i_e	VVa Magn phase A of the second newest completed event	E	REx615 MICS:2014>IEC 61850-7-4:2003
VVaPhsB	ABBIED600_Rev3_MV_simple_i_e	VVa Magn phase B of the second newest completed event	E	REx615 MICS:2014>IEC 61850-7-4:2003
VVaPhsC	ABBIED600_Rev3_MV_simple_i_e	VVa Magn phase C of the second newest completed event	E	REx615 MICS:2014>IEC 61850-7-4:2003

VVaTmPhsA	ABBIED600_Rev3_MV_simple_i_e	VVa Phase A Dur of the second newest completed event	E	REx615 MICS:2014>IEC 61850-7-4:2003
VVaTmPhsB	ABBIED600_Rev3_MV_simple_i_e	VVa Phase B Dur of the second newest completed event	E	REx615 MICS:2014>IEC 61850-7-4:2003
VVaTmPhsC	ABBIED600_Rev3_MV_simple_i_e	VVa Phase C Dur of the second newest completed event	E	REx615 MICS:2014>IEC 61850-7-4:2003
APreVaPhsA	ABBIED600_Rev3_MV_simple_i_e	I_A preceding Va start of the 2nd newest completed event	E	REx615 MICS:2014>IEC 61850-7-4:2003
APreVaPhsB	ABBIED600_Rev3_MV_simple_i_e	I_B preceding Va start of the 2nd newest completed event	E	REx615 MICS:2014>IEC 61850-7-4:2003
APreVaPhsC	ABBIED600_Rev3_MV_simple_i_e	I_C preceding Va start of the 2nd newest completed event	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.86 LN: QVV3RQRC1 Name: RQRC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_ENC_Mod_On_e	Mode	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only
Beh	ABBIED600_Rev2_ENS_beh_e	Behaviour	E	REx615 MICS:2014>IEC 61850-7-4:2003
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_InNs_1_e	Name plate	E	REx615 MICS:2014>IEC 61850-7-4:2003
VVaTyp	AB-BIED600_Rev3_ENS_VVaTyp_e	Voltage variation type	E	REx615 MICS:2014>IEC 61850-7-4:2003
VVaPhsA	ABBIED600_Rev3_MV_simple_i_e	VVa Magn phase A of the third newest completed event	E	REx615 MICS:2014>IEC 61850-7-4:2003
VVaPhsB	ABBIED600_Rev3_MV_simple_i_e	VVa Magn phase B of the third newest completed event	E	REx615 MICS:2014>IEC 61850-7-4:2003
VVaPhsC	ABBIED600_Rev3_MV_simple_i_e	VVa Magn phase C of the third newest completed event	E	REx615 MICS:2014>IEC 61850-7-4:2003
VVaTmPhsA	ABBIED600_Rev3_MV_simple_i_e	VVa Phase A Dur of the third newest completed event	E	REx615 MICS:2014>IEC 61850-7-4:2003
VVaTmPhsB	ABBIED600_Rev3_MV_simple_i_e	VVa Phase B Dur of the third newest completed event	E	REx615 MICS:2014>IEC 61850-7-4:2003
VVaTmPhsC	ABBIED600_Rev3_MV_simple_i_e	VVa Phase C Dur of the third newest completed event	E	REx615 MICS:2014>IEC 61850-7-4:2003

APreVaPhsA	ABBIED600_Rev3_MV_simple_i_e	I_A preceding Va start of the 3rd newest completed event	E	REx615 MICS:2014>IEC 61850-7-4:2003
APreVaPhsB	ABBIED600_Rev3_MV_simple_i_e	I_B preceding Va start of the 3rd newest completed event	E	REx615 MICS:2014>IEC 61850-7-4:2003
APreVaPhsC	ABBIED600_Rev3_MV_simple_i_e	I_C preceding Va start of the 3rd newest completed event	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.87 LN: VSQVUB1 Name: QVUB (ED1)

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		ED1 only
NamPlt	ABBIED600_Rev2_LPL_1tsg_setCal	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
VarStr	ABBIED600_Rev1_SPS	Start of the event		
MaxVVa	ABBIED600_Rev3_MV_simple_i	Maximum unbalance deviation value		
UnbDetMth	AB-BIED600_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	REx615 MICS:2014>IEC 61850-7-4:2003
ObsPerSel	ABBIED600_Rev2_ENG_SP_ObsPerSel_e	Observation period duration	E	REx615 MICS:2014>IEC 61850-7-4:2003
ObsPerUsr	ABBIED600_Rev1_ING_SP_1_e	User defined observation period	E	REx615 MICS:2014>IEC 61850-7-4:2003
HiPctVUnb	ABBIED600_Rev1_SPS_e	Status percentile unbalance exceeds the limit	E	REx615 MICS:2014>IEC 61850-7-4:2003
ObsPerAct	ABBIED600_Rev1_SPS_e	Observation period for statistical calculation active	E	REx615 MICS:2014>IEC 61850-7-4:2003
PctUnbVal	ABBIED600_Rev3_MV_simple_i_e	Percentile value of voltage unbalance in an observation	E	REx615 MICS:2014>IEC 61850-7-4:2003
VUnb3sMn	ABBIED600_Rev3_MV_simple_i_e	Non sliding 3 second mean value of voltage unbalance	E	REx615 MICS:2014>IEC 61850-7-4:2003

VUnb10mMn	ABBIED600_Rev3_MV_simple_i_e	Sliding 10 minutes mean value of voltage unbalance	E	REx615 MICS:2014>IEC 61850-7-4:2003
PctUnb	ABBIED600_Rev3_ASG_SP_i_e	Percentile Index	E	REx615 MICS:2014>IEC 61850-7-4:2003
ObsPerStr	ABBIED600_Rev1_SPS_simple_e	Observation Start	E	REx615 MICS:2014>IEC 61850-7-4:2003
ObsPerEnd	ABBIED600_Rev1_SPS_simple_e	Observation End	E	REx615 MICS:2014>IEC 61850-7-4:2003
TestOth	ABBIED600_Rev1_ENC_TestOth_e	Test Outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
TrgObsPer	ABBIED600_Rev2_SPC_control_e	Trigger for observation period	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
RcdRs	ABBIED600_Rev2_SPC_control_e	Recorded data reset	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
PerStrDate	ABBIED600_Rev2_TSG_SP_setCal_e	Observation start time	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.88 LN: QVU1RQRC1 Name: RQRC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_ENC_Mod_On_e	Mode	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only
Beh	ABBIED600_Rev2_ENS_beh_e	Behaviour	E	REx615 MICS:2014>IEC 61850-7-4:2003
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_InNs_1_e	Name Plate	E	REx615 MICS:2014>IEC 61850-7-4:2003
MaxVVa	ABBIED600_Rev3_MV_simple_i_e	Maximum unbalance deviation value	E	REx615 MICS:2014>IEC 61850-7-4:2003
VVaTm	ABBIED600_Rev3_MV_simple_i_e	Duration of newest high mean unbalance voltage alarm	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.89 LN: QVU2RQRC1 Name: RQRC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_ENC_Mod_On_e	Mode	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only
Beh	ABBIED600_Rev2_ENS_beh_e	Behaviour	E	REx615 MICS:2014>IEC 61850-7-4:2003
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only

NamPlt	ABBIED600_Rev1_LPL_InNs_1_e	Name Plate	E	REx615 MICS:2014>IEC 61850-7-4:2003
MaxVVA	ABBIED600_Rev3_MV_simple_i_e	Maximum unbalance deviation value	E	REx615 MICS:2014>IEC 61850-7-4:2003
VVaTm	ABBIED600_Rev3_MV_simple_i_e	Duration of second newest high mean unbalance Volt alarm	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.90 LN: QVU3RQRC1 Name: RQRC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_ENC_Mod_On_e	Mode	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_InNs_1_e	Name Plate		
MaxVVA	ABBIED600_Rev3_MV_simple_i_e	Maximum unbalance deviation value		
VVaTm	ABBIED600_Rev3_MV_simple_i_e	Duration of third newest high mean unbalance Volt alarm		

6.1.91 LN: MHPDIF1 Name: PDIF (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	AB-BIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Operate signal from high (instantaneous) stage		
Blk	ABBIED600_Rev1_SPS_simple	Blocks operate outputs from instantaneous stage		
HiSet	ABBIED600_Rev3_ASG_SG_i	High operate value		

6.1.92 LN: MLPDIF1 Name: PDIF (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Operate signal from low (stabilized) stage		

Blk	ABBIED600_Rev1_SPS_simple	Blocks operate outputs from biased stage		
DifAClc	AB-BIED600_Rev3_WYE_threephase_simple_i	Differential Current		
RstA	AB-BIED600_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	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
BlkInSt	ABBIED600_Rev1_ACT_threephase_e	Status from waveform blocking	E	REx615 MICS:2014>IEC 61850-7-4:2003
SpeScn2	ABBIED600_Rev3_ASG_SG_i_e	Slope section 2	E	REx615 MICS:2014>IEC 61850-7-4:2003
AngLinAB	ABBIED600_Rev3_MV_simple_i_e	Current phase angle phase A to B, line side	E	REx615 MICS:2014>IEC 61850-7-4:2003
AngLinBC	ABBIED600_Rev3_MV_simple_i_e	Current phase angle phase B to C, line side	E	REx615 MICS:2014>IEC 61850-7-4:2003
AngLinCA	ABBIED600_Rev3_MV_simple_i_e	Current phase angle phase C to A, line side	E	REx615 MICS:2014>IEC 61850-7-4:2003
AngNeutAB	ABBIED600_Rev3_MV_simple_i_e	Current phase angle phase A to B, neutral side	E	REx615 MICS:2014>IEC 61850-7-4:2003
AngNeutBC	ABBIED600_Rev3_MV_simple_i_e	Current phase angle phase B to C, neutral side	E	REx615 MICS:2014>IEC 61850-7-4:2003
AngNeutCA	ABBIED600_Rev3_MV_simple_i_e	Current phase angle phase C to A, neutral side	E	REx615 MICS:2014>IEC 61850-7-4:2003
An-gLinNeutA	ABBIED600_Rev3_MV_simple_i_e	Current phs angle diff between line and neutral, phase A	E	REx615 MICS:2014>IEC 61850-7-4:2003
An-gLinNeutB	ABBIED600_Rev3_MV_simple_i_e	Current phs angle diff between line and neutral, phase B	E	REx615 MICS:2014>IEC 61850-7-4:2003
An-gLinNeutC	ABBIED600_Rev3_MV_simple_i_e	Current phs angle diff between line and neutral, phase C	E	REx615 MICS:2014>IEC 61850-7-4:2003

EndScn1	ABBIED600_Rev3_ASG_SG_i_e	End section 1	E	REx615 MICS:2014>IEC 61850-7-4:2003
EndScn2	ABBIED600_Rev3_ASG_SG_i_e	End section 2	E	REx615 MICS:2014>IEC 61850-7-4:2003
CTConnTyp	AB-BIED600_Rev2_ENG_SP_CTConnTyp_e	CT connection type	E	REx615 MICS:2014>IEC 61850-7-4:2003
EnaDCBias	ABBIED600_Rev1_SPG_SG_e	Setting for enabling DC bias	E	REx615 MICS:2014>IEC 61850-7-4:2003
CTRatCor1	ABBIED600_Rev3_ASG_SP_i_e	CT ratio correction, line side	E	REx615 MICS:2014>IEC 61850-7-4:2003
CTRatCor2	ABBIED600_Rev3_ASG_SP_i_e	CT ratio correction, neutral side	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.93 LN: MDSOPT2 Name: SOPT (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD_e	Mode	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh_e	Behaviour	E	REx615 MICS:2014>IEC 61850-7-4:2003
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_InNs_1_e	Name plate	E	REx615 MICS:2014>IEC 61850-7-4:2003
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
OpTmh	ABBIED600_Rev1_INS_e	OPR_TIME	E	REx615 MICS:2014>IEC 61850-7-4:2003
OpTmRs	ABBIED600_Rev2_SPC_control	MDSOPT2 operation t		status-only,direct-with-normal-security
OpTmWrn	ABBIED600_Rev1_SPS_e	Operation time warning	E	REx615 MICS:2014>IEC 61850-7-4:2003
OpTmAlm	ABBIED600_Rev1_SPS_e	Operation time alarm	E	REx615 MICS:2014>IEC 61850-7-4:2003
TmOp	ABBIED600_Rev1_SPS	Indicates that operation time is running		
OpWrnTmh	ABBIED600_Rev1_ING_SP_1_e	Warning value for operation time supervision	E	REx615 MICS:2014>IEC 61850-7-4:2003
OpAlmTmh	ABBIED600_Rev1_ING_SP_1_e	Alarm value for operation time supervision	E	REx615 MICS:2014>IEC 61850-7-4:2003
IniOpTmh	ABBIED600_Rev1_ING_SP_1	Initial value for operation time supervision		

OpActTmh	ABBIED600_Rev1_ING_SP_1	Time of day when alarm and warning will occur		
OpActMod	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

6.1.94 LN: CCSPVC2 Name: SPVC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD_e	Mode	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh_e	Behaviour	E	REx615 MICS:2014>IEC 61850-7-4:2003
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_InNs_1_e	Name plate	E	REx615 MICS:2014>IEC 61850-7-4:2003
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrVal	ABBIED600_Rev3_ASG_SP_i_e	Minimum operate current differential level	E	REx615 MICS:2014>IEC 61850-7-4:2003
MaxOpA	ABBIED600_Rev3_ASG_SP_i	Block of the function at high phase current		
FailACirc	ABBIED600_Rev1_ACT_simple	Detection of current circuit failure		
SigFailAlm	ABBIED600_Rev1_SPS	Alarm		
TestSpvn	AB-BIED600_Rev1_ENC_TestSpvn_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
DifAClc	ABBIED600_Rev3_WYE_res_simple_i_e	IDIFF	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.95 LN: CTSRCTF1 Name: RCTF (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD_e	Mode	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh_e	Behaviour	E	REx615 MICS:2014>IEC 61850-7-4:2003
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_InNs_1_e	Name plate	E	REx615 MICS:2014>IEC 61850-7-4:2003

Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
Alm	ABBIED600_Rev1_SPS_e	Alarm output	E	REx615 MICS:2014>IEC 61850-7-4:2003
Op	ABBIED600_Rev1_ACT_simple_e	CT secondary failure	E	REx615 MICS:2014>IEC 61850-7-4:2003
OpGrp1	ABBIED600_Rev1_ACT_simple	CT secondary failure in group 1		
OpGrp2	ABBIED600_Rev1_ACT_simple	CT secondary failure in group 2		
OpGrp3	ABBIED600_Rev1_ACT_simple	CT secondary failure in group 3		
BlkInSt	ABBIED600_Rev1_ACT_simple	Function blocked internally		
TstOutCmd	ABBIED600_Rev20_ENC_TstOut	Test control for outputs		status-only,direct-with-normal-security
BlkValA	ABBIED600_Rev3_ASG_SP_i_e	Minimum operate current	E	REx615 MICS:2014>IEC 61850-7-4:2003
MaxOpA	ABBIED600_Rev3_ASG_SP_i	Maximum phase current		
MaxNgSeqA	ABBIED600_Rev3_ASG_SP_i	Maximum I2 current in healthy sets		

6.1.96 LN: TR3LPDIF1 Name: PDIF (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Operate signal from low (stabilized) stage		
DifACIc	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	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
SpeScn2	ABBIED600_Rev3_ASG_SG_i_e	Slope section 2	E	REx615 MICS:2014>IEC 61850-7-4:2003
EndScn2	ABBIED600_Rev3_ASG_SG_i_e	End section 2	E	REx615 MICS:2014>IEC 61850-7-4:2003
AGrp3Typ	ABBIED600_Rev3_ENG_SP_AGrpTyp_e	Current group 3 type	E	REx615 MICS:2014>IEC 61850-7-4:2003
CTConnTyp1	AB-BIED600_Rev2_ENG_SP_CTConnTyp_e	CT connection 1-2	E	REx615 MICS:2014>IEC 61850-7-4:2003
CTConnTyp2	AB-BIED600_Rev2_ENG_SP_CTConnTyp_e	CT connection 1-3	E	REx615 MICS:2014>IEC 61850-7-4:2003
PhShtRef	ABBIED600_Rev2_ENG_SP_WndSel_e	Phase Ref winding	E	REx615 MICS:2014>IEC 61850-7-4:2003
ZroAEIm	ABBIED600_Rev4_ENG_SP_ZroAEIm_e	Zro A elimination	E	REx615 MICS:2014>IEC 61850-7-4:2003
PhSht1	ABBIED600_Rev3_ASG_SP_i_e	Phase shift Wnd 1-3	E	REx615 MICS:2014>IEC 61850-7-4:2003
PhSht2	ABBIED600_Rev3_ASG_SP_i_e	Phase shift Wnd 1-3	E	REx615 MICS:2014>IEC 61850-7-4:2003
MinWndTap	ABBIED600_Rev1_ING_SP_1_e	Min winding tap	E	REx615 MICS:2014>IEC 61850-7-4:2003
MaxWndTap	ABBIED600_Rev1_ING_SP_1_e	Max winding tap	E	REx615 MICS:2014>IEC 61850-7-4:2003
TapNom-LTC1	ABBIED600_Rev1_ING_SP_1_e	Tap nominal	E	REx615 MICS:2014>IEC 61850-7-4:2003
TapWnd	ABBIED600_Rev2_ENG_SP_WndSel_e	Tapped winding	E	REx615 MICS:2014>IEC 61850-7-4:2003
StepTap1	ABBIED600_Rev3_ASG_SP_i_e	Step of tap	E	REx615 MICS:2014>IEC 61850-7-4:2003
HDBlk	ABBIED600_Rev1_SPG_SG_e	Harmonic deblock 2.	E	REx615 MICS:2014>IEC 61850-7-4:2003
BlkWavSt	ABBIED600_Rev1_ACT_threephase_e	Status from waveform blocking	E	REx615 MICS:2014>IEC 61850-7-4:2003
Blk2HSt	ABBIED600_Rev1_ACT_threephase_e	Status from 2nd harmonic restraint blocking	E	REx615 MICS:2014>IEC 61850-7-4:2003
Blk5HSt	ABBIED600_Rev1_ACT_threephase_e	Status from 5th harmonic restraint blocking	E	REx615 MICS:2014>IEC 61850-7-4:2003
ScyAComp	ABBIED600_Rev3_WYE_threephase_simple_i_e	Connection group compensated secondary current	E	REx615 MICS:2014>IEC 61850-7-4:2003

PriAComp	ABBIED600_Rev3_WYE_threephase_simple_i_e	Connection group compensated primary current	E	REx615 MICS:2014>IEC 61850-7-4:2003
TerAComp	ABBIED600_Rev3_WYE_threephase_simple_i_e	Connection group compensated tertiary current	E	REx615 MICS:2014>IEC 61850-7-4:2003
AngPriAB	ABBIED600_Rev3_MV_simple_i_e	Curr ph angle A to B, winding 1	E	REx615 MICS:2014>IEC 61850-7-4:2003
AngPriBC	ABBIED600_Rev3_MV_simple_i_e	Curr ph angle B to C, winding 1	E	REx615 MICS:2014>IEC 61850-7-4:2003
AngPriCA	ABBIED600_Rev3_MV_simple_i_e	Curr ph angle C to A, winding 1	E	REx615 MICS:2014>IEC 61850-7-4:2003
AngScyAB	ABBIED600_Rev3_MV_simple_i_e	Curr ph angle A to B, winding 2	E	REx615 MICS:2014>IEC 61850-7-4:2003
AngScyBC	ABBIED600_Rev3_MV_simple_i_e	Curr ph angle B to C, winding 2	E	REx615 MICS:2014>IEC 61850-7-4:2003
AngScyCA	ABBIED600_Rev3_MV_simple_i_e	Curr ph angle C to A, winding 2	E	REx615 MICS:2014>IEC 61850-7-4:2003
AngTerAB	ABBIED600_Rev3_MV_simple_i_e	Curr ph angle A to B, winding 3	E	REx615 MICS:2014>IEC 61850-7-4:2003
AngTerBC	ABBIED600_Rev3_MV_simple_i_e	Curr ph angle B to C, winding 3	E	REx615 MICS:2014>IEC 61850-7-4:2003
AngTerCA	ABBIED600_Rev3_MV_simple_i_e	Curr ph angle C to A, winding 3	E	REx615 MICS:2014>IEC 61850-7-4:2003
AngPriScyA	ABBIED600_Rev3_MV_simple_i_e	Curr ph A winding 1 to 2 angle	E	REx615 MICS:2014>IEC 61850-7-4:2003
AngPriScyB	ABBIED600_Rev3_MV_simple_i_e	Curr ph B winding 1 to 2 angle	E	REx615 MICS:2014>IEC 61850-7-4:2003
AngPriScyC	ABBIED600_Rev3_MV_simple_i_e	Curr ph C winding 1 to 2 angle	E	REx615 MICS:2014>IEC 61850-7-4:2003
AngPriTerA	ABBIED600_Rev3_MV_simple_i_e	Curr ph A winding 1 to 3 angle	E	REx615 MICS:2014>IEC 61850-7-4:2003
AngPriTerB	ABBIED600_Rev3_MV_simple_i_e	Curr ph B winding 1 to 3 angle	E	REx615 MICS:2014>IEC 61850-7-4:2003

AngPriTerC	ABBIED600_Rev3_MV_simple_i_e	Curr ph C winding 1 to 3 angle	E	REx615 MICS:2014>IEC 61850-7-4:2003
CTRatCor1	ABBIED600_Rev3_ASG_SP_i_e	CT ratio correction, winding 1	E	REx615 MICS:2014>IEC 61850-7-4:2003
CTRatCor2	ABBIED600_Rev3_ASG_SP_i_e	CT ratio correction, winding 2	E	REx615 MICS:2014>IEC 61850-7-4:2003
CTRatCor3	ABBIED600_Rev3_ASG_SP_i_e	CT ratio correction, current group 3	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.97 LN: TR3HPDIF1 Name: PDIF (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	AB-BIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Operate signal from high (instantaneous) stage		
HiSet	ABBIED600_Rev3_ASG_SG_i	High operate value		
EnaHiSet	ABBIED600_Rev1_SPG_SG_e	Enable high set	E	REx615 MICS:2014>IEC 61850-7-4:2003
Blk	ABBIED600_Rev1_SPS_simple	Blocks operate outputs from instantaneous stage		

6.1.98 LN: SSCBR3 Name: SCBR (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		
OpCntAlm	ABBIED600_Rev1_SPS	Number of CB operations exceeds alarm limit		
OpTmOpn	ABBIED600_Rev3_MV_simple_i	Travel time of the CB during opening operation		

OpTmCls	ABBIED600_Rev3_MV_simple_i	Travel time of the CB during closing operation		
OpTmAlm	ABBIED600_Rev1_SPS_simple	Switch operating time exceeded		
OpAlmNum	ABBIED600_Rev1_ING_SP_1	Setting of alarm for number of CB operations.		
OpCntRs	ABBIED600_Rev1_INC_simple_int	Number of CB operation cycle		status-only
InPosOpn	ABBIED600_Rev1_SPS_e	POSOPEN	E	REx615 MICS:2014>IEC 61850-7-4:2003
InPosClis	ABBIED600_Rev1_SPS_e	POSCLOSE	E	REx615 MICS:2014>IEC 61850-7-4:2003
ColClis	ABBIED600_Rev1_SPS_simple_e	Close command status	E	REx615 MICS:2014>IEC 61850-7-4:2003
PosOpn	ABBIED600_Rev1_SPS_e	CB position is open	E	REx615 MICS:2014>IEC 61850-7-4:2003
PosIvd	ABBIED600_Rev1_SPS_e	INVALIDPOS	E	REx615 MICS:2014>IEC 61850-7-4:2003
PosClis	ABBIED600_Rev1_SPS_e	CB position is closed	E	REx615 MICS:2014>IEC 61850-7-4:2003
OpnAlm	ABBIED600_Rev1_SPS_e	CB open travel time exceeded set value	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClisAlm	ABBIED600_Rev1_SPS_e	CB close travel time exceeded set value	E	REx615 MICS:2014>IEC 61850-7-4:2003
OpCntLO	ABBIED600_Rev1_SPS_e	Number of CB operations exceeds lockout limit	E	REx615 MICS:2014>IEC 61850-7-4:2003
LonTmAlm	ABBIED600_Rev1_SPS_e	CB 'not operated for long time' alarm	E	REx615 MICS:2014>IEC 61850-7-4:2003
APwrAlm	ABBIED600_Rev1_SPS_e	Accumulated currents power (lyt), exceeded alarm limit	E	REx615 MICS:2014>IEC 61850-7-4:2003
APwrLO	ABBIED600_Rev1_SPS_e	Accumulated currents power (lyt), exceeded lockout limit	E	REx615 MICS:2014>IEC 61850-7-4:2003
RmnNumOpAlm	ABBIED600_Rev1_SPS_e	Remaining life of CB exceeded alarm limit	E	REx615 MICS:2014>IEC 61850-7-4:2003
OpnAlmTmms	ABBIED600_Rev1_ING_SP_1_e	Setting of alarm level for open travel time in ms	E	REx615 MICS:2014>IEC 61850-7-4:2003
CorOpnTmms	ABBIED600_Rev1_ING_SP_1_e	Correction factor for open travel time in ms	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClisAlmTmms	ABBIED600_Rev1_ING_SP_1_e	Setting of alarm level for close travel time in ms	E	REx615 MICS:2014>IEC 61850-7-4:2003

CorClsTmms	ABBIED600_Rev1_ING_SP_1_e	Correction factor for CB close travel time in ms	E	REx615 MICS:2014>IEC 61850-7-4:2003
CorDifTmms	ABBIED600_Rev1_ING_SP_1_e	Corr. factor for time dif in aux. and main contacts open time	E	REx615 MICS:2014>IEC 61850-7-4:2003
OpLONum	ABBIED600_Rev1_ING_SP_1_e	Setting to block operation when number of operation is more.	E	REx615 MICS:2014>IEC 61850-7-4:2003
OpNumRtg	ABBIED600_Rev1_ING_SP_1_e	Number of operations possible at rated current	E	REx615 MICS:2014>IEC 61850-7-4:2003
NumOpAlm-Lev	ABBIED600_Rev1_ING_SP_1_e	Alarm level for CB remaining life	E	REx615 MICS:2014>IEC 61850-7-4:2003
OpNumFlt	ABBIED600_Rev1_ING_SP_1_e	Number of operations possible at rated fault current	E	REx615 MICS:2014>IEC 61850-7-4:2003
CntInival	ABBIED600_Rev1_ING_SP_1_e	The operation numbers counter initialization value	E	REx615 MICS:2014>IEC 61850-7-4:2003
InaAlmTmd	ABBIED600_Rev1_ING_SP_1_e	Alarm limit value of the inactive days counter	E	REx615 MICS:2014>IEC 61850-7-4:2003
InilnaTmd	ABBIED600_Rev1_ING_SP_1_e	Initial value of the inactive days counter	E	REx615 MICS:2014>IEC 61850-7-4:2003
InaAlmTmh	ABBIED600_Rev1_ING_SP_1_e	Alarm time of the inactive days counter in hours	E	REx615 MICS:2014>IEC 61850-7-4:2003
InaTmdCnt	ABBIED600_Rev1_INS_e	The number of days CB has been inactive	E	REx615 MICS:2014>IEC 61850-7-4:2003
RsAccmAPwr	ABBIED600_Rev2_SPC_control_e	Reset accumulation energy	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
RsCBWear	ABBIED600_Rev2_SPC_control_e	Reset input for CB remaining life and operation counter	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
RsTrvTm	ABBIED600_Rev2_SPC_control_e	SSCBR3 travel t	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
TestSpvn	AB-BIED600_Rev1_ENC_TestSpvn_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
TrvClcMod	ABBIED600_Rev2_ENG_SP_Trv-ClcMod_e	Travel time calculation mode	E	REx615 MICS:2014>IEC 61850-7-4:2003

DirCff	ABBIED600_Rev1_ASG_SP_f_e	Directional coefficient for CB life calculation	E	REx615 MICS:2014>IEC 61850-7-4:2003
IniRm-nNumOp	ABBIED600_Rev1_ASG_SP_f_e	Initial value for the CB remaining life estimates	E	REx615 MICS:2014>IEC 61850-7-4:2003
Al-mAccmAPwr	ABBIED600_Rev3_ASG_SP_i_e	Setting of alarm level for accumulated currents power, lyt	E	REx615 MICS:2014>IEC 61850-7-4:2003
AccmStopA	ABBIED600_Rev3_ASG_SP_i_e	Setting of the RMS current below which engy acm stops	E	REx615 MICS:2014>IEC 61850-7-4:2003
LOAccmAPwr	ABBIED600_Rev3_ASG_SP_i_e	Setting of lockout level for accumulated currents power, lyt	E	REx615 MICS:2014>IEC 61850-7-4:2003
AExpn	ABBIED600_Rev1_ASG_SP_f_e	Current exponent setting for energy calculation	E	REx615 MICS:2014>IEC 61850-7-4:2003
AOpRtg	ABBIED600_Rev3_ASG_SP_i_e	Rated operating current of the breaker	E	REx615 MICS:2014>IEC 61850-7-4:2003
AFltRtg	ABBIED600_Rev3_ASG_SP_i_e	Rated fault current of the breaker	E	REx615 MICS:2014>IEC 61850-7-4:2003
IniAccmAPwr	ABBIED600_Rev3_ASG_SP_i_e	Initial value for accumulation energy (lyt)	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.99 LN: SPH1SCBR3 Name: SCBR (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	AB-BIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		
RmnNumOp	ABBIED600_Rev1_INS_d_e	CB Remaining life phase A	E	REx615 MICS:2014>IEC 61850-7-4:2003
AccmAPwr	ABBIED600_Rev3_MV_simple_i_e	Accumulated currents power (lyt), phase A	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.100 LN: SPH2SCBR3 Name: SCBR (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	AB-BIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		
RmnNumOp	ABBIED600_Rev1_INS_d_e	CB Remaining life phase B	E	REx615 MICS:2014>IEC 61850-7-4:2003
AccmAPwr	ABBIED600_Rev3_MV_simple_i_e	Accumulated currents power (lyt), phase B	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.101 LN: SPH3SCBR3 Name: SCBR (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	AB-BIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		
RmnNumOp	ABBIED600_Rev1_INS_d_e	CB Remaining life phase C	E	REx615 MICS:2014>IEC 61850-7-4:2003
AccmAPwr	ABBIED600_Rev3_MV_simple_i_e	Accumulated currents power (lyt), phase C	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.102 LN: SSOPM3 Name: SOPM (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	AB-BIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
SprChaAIm	ABBIED600_Rev1_SPS_e	Spring charging time has crossed the set value	E	REx615 MICS:2014>IEC 61850-7-4:2003
SprChaStr	ABBIED600_Rev1_SPS_e	CB spring charging started input	E	REx615 MICS:2014>IEC 61850-7-4:2003
SprChaStop	ABBIED600_Rev1_SPS_e	CB spring charged input	E	REx615 MICS:2014>IEC 61850-7-4:2003
SprChaTmms	ABBIED600_Rev1_ING_SP_e	Setting of alarm for spring charging time of CB in ms.	E	REx615 MICS:2014>IEC 61850-7-4:2003
TmsSprCha	ABBIED600_Rev3_MV_simple_i_e	The charging time of the CB spring	E	REx615 MICS:2014>IEC 61850-7-4:2003

RsSprChaTm	ABBIED600_Rev2_SPC_control_e	SSCBR3 spr.charge t	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
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6.1.103 LN: TCSSCBR3 Name: SCBR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
OpDITmms	ABBIED600_Rev1_ING_SP_1_e	Operate Delay Time		
RsDITmms	ABBIED600_Rev1_ING_SP_1_e	Reset Delay Time		
CircAlm	ABBIED600_Rev1_SPS_e	Alarm		
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs		status-only,direct-with-normal-security
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.104 LN: SCEFRFLO1 Name: RFLO (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
FltZ	ABBIED600_Rev3_CMV_S_1	Fault loop impedance		
FltDiskm	ABBIED600_Rev3_MV_simple_i	Fault distance		
FltLoop	ABBIED600_Rev4_ENS_FltLoop	Fault loop		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	REx615 MICS:2014>IEC 61850-7-4:2003
TrgSt	ABBIED600_Rev1_SPS_e	Signal indicating function triggering	E	REx615 MICS:2014>IEC 61850-7-4:2003
FltPtR	ABBIED600_Rev3_MV_simple_i_e	Fault point resistance	E	REx615 MICS:2014>IEC 61850-7-4:2003
FltR	ABBIED600_Rev3_MV_simple_i_e	Fault loop resistance	E	REx615 MICS:2014>IEC 61850-7-4:2003

FltX	ABBIED600_Rev3_MV_simple_i_e	Fault loop reactance	E	REx615 MICS:2014>IEC 61850-7-4:2003
PhReact	ABBIED600_Rev3_MV_simple_i_e	Fault phase reactance	E	REx615 MICS:2014>IEC 61850-7-4:2003
RatFltALod	ABBIED600_Rev3_MV_simple_i_e	Fault to load current ratio	E	REx615 MICS:2014>IEC 61850-7-4:2003
EqDisLod	ABBIED600_Rev3_MV_simple_i_e	Estimated equivalent load distance	E	REx615 MICS:2014>IEC 61850-7-4:2003
PhGndCapac	ABBIED600_Rev3_MV_simple_i_e	Estimated PE capacitive reactance of the line	E	REx615 MICS:2014>IEC 61850-7-4:2003
Trg	ABBIED600_Rev2_SPC_control_e	Triggering signal for distance calculation	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
TrgXC0F	ABBIED600_Rev2_SPC_control_e	Triggering signal for XC0F calculation	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
RecRs	ABBIED600_Rev2_SPC_control_e	Recorded data reset	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
FltDisQ	ABBIED600_Rev1_INS_e	Fault distance quality	E	REx615 MICS:2014>IEC 61850-7-4:2003
ZMaxLod	ABBIED600_Rev3_ASG_SG_i_e	Maximum load impedance	E	REx615 MICS:2014>IEC 61850-7-4:2003
PhLeakRis	ABBIED600_Rev3_ASG_SG_i_e	Line PE leakage resistance	E	REx615 MICS:2014>IEC 61850-7-4:2003
PhLinCapac	ABBIED600_Rev3_ASG_SG_i_e	Line PE capacitive reactance	E	REx615 MICS:2014>IEC 61850-7-4:2003
EqLodDis	ABBIED600_Rev3_ASG_SG_i_e	Equivalent load distance	E	REx615 MICS:2014>IEC 61850-7-4:2003
TrgMod	ABBIED600_Rev1_ENG_SP_Trg-Mod_e	Trigger mode for distance calculation	E	REx615 MICS:2014>IEC 61850-7-4:2003
HiLimSpt	ABBIED600_Rev3_ASG_SG_i_e	High alarm limit	E	REx615 MICS:2014>IEC 61850-7-4:2003
LoLimSpt	ABBIED600_Rev3_ASG_SG_i_e	Low alarm limit	E	REx615 MICS:2014>IEC 61850-7-4:2003
EFAlgSel	ABBIED600_Rev2_ENG_SP_EFAlg_e	PE-loop calculation algorithm	E	REx615 MICS:2014>IEC 61850-7-4:2003
EFAlgASel	ABBIED600_Rev2_ENG_SP_EFAlgA-Sel_e	Earth fault current model	E	REx615 MICS:2014>IEC 61850-7-4:2003
EnaLod-Comp	ABBIED600_Rev1_SPG_SP_e	Enable load compensation	E	REx615 MICS:2014>IEC 61850-7-4:2003
SimpMod	ABBIED600_Rev1_SPG_SP_e	Enable simple model	E	REx615 MICS:2014>IEC 61850-7-4:2003
TestProRI	ABBIED600_Rev4_ENC_TestProRI_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-

				only,direct-with-normal-security
DisEstVa	ABBIED600_Rev3_ASG_SP_i_e	Allowed variation of short circuit distance estimate	E	REx615 MICS:2014>IEC 61850-7-4:2003
PhVMeas	AB-BIED600_Rev2_ENG_SP_PhVMeas_e	Phase voltage measurement principle	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.105 LN: FLO1RFRC1 Name: RFRC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_ENC_Mod_On_e	Mode	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only
Beh	ABBIED600_Rev2_ENS_beh_e	Behaviour	E	REx615 MICS:2014>IEC 61850-7-4:2003
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_InNs_1_e	Name plate	E	REx615 MICS:2014>IEC 61850-7-4:2003
FltLoop	ABBIED600_Rev4_ENS_Flt-Loop_e	Fault loop	E	REx615 MICS:2014>IEC 61850-7-4:2003
FltDiskm	ABBIED600_Rev3_MV_simple_i_e	Fault distance	E	REx615 MICS:2014>IEC 61850-7-4:2003
FltPtR	ABBIED600_Rev3_MV_simple_i_e	Fault point resistance	E	REx615 MICS:2014>IEC 61850-7-4:2003
FltDisQ	ABBIED600_Rev1_INS_e	Fault distance quality	E	REx615 MICS:2014>IEC 61850-7-4:2003
FltR	ABBIED600_Rev3_MV_simple_i_e	Fault loop resistance	E	REx615 MICS:2014>IEC 61850-7-4:2003
FltX	ABBIED600_Rev3_MV_simple_i_e	Fault loop reactance	E	REx615 MICS:2014>IEC 61850-7-4:2003
PhReact	ABBIED600_Rev3_MV_simple_i_e	Fault phase reactance	E	REx615 MICS:2014>IEC 61850-7-4:2003
RatFltALod	ABBIED600_Rev3_MV_simple_i_e	Fault to load current ratio	E	REx615 MICS:2014>IEC 61850-7-4:2003
EqDisLod	ABBIED600_Rev3_MV_simple_i_e	Estimated equivalent load distance	E	REx615 MICS:2014>IEC 61850-7-4:2003
PhGndCapac	ABBIED600_Rev3_MV_simple_i_e	Estimated PE capacitive reactance of the line	E	REx615 MICS:2014>IEC 61850-7-4:2003
APreFltPhA	ABBIED600_Rev3_CMV_S_1_e	A Pre Flt Phs A	E	REx615 MICS:2014>IEC 61850-7-4:2003
APreFltPhB	ABBIED600_Rev3_CMV_S_1_e	A Pre Flt Phs B	E	REx615 MICS:2014>IEC 61850-7-4:2003
APreFltPhC	ABBIED600_Rev3_CMV_S_1_e	A Pre Flt Phs C	E	REx615 MICS:2014>IEC 61850-7-4:2003
VPreFltPhA	ABBIED600_Rev3_CMV_S_1_e	V Pre Flt Phs A	E	REx615 MICS:2014>IEC 61850-7-4:2003

VPreFltPhB	ABBIED600_Rev3_CMV_S_1_e	V Pre Flt Phs B	E	REx615 MICS:2014>IEC 61850-7-4:2003
VPreFltPhC	ABBIED600_Rev3_CMV_S_1_e	V Pre Flt Phs C	E	REx615 MICS:2014>IEC 61850-7-4:2003
AFltPhA	ABBIED600_Rev3_CMV_S_1_e	A Flt Phs A	E	REx615 MICS:2014>IEC 61850-7-4:2003
AFltPhB	ABBIED600_Rev3_CMV_S_1_e	A Flt Phs B	E	REx615 MICS:2014>IEC 61850-7-4:2003
AFltPhC	ABBIED600_Rev3_CMV_S_1_e	A Flt Phs C	E	REx615 MICS:2014>IEC 61850-7-4:2003
VFltPhA	ABBIED600_Rev3_CMV_S_1_e	V Flt Phs A	E	REx615 MICS:2014>IEC 61850-7-4:2003
VFltPhB	ABBIED600_Rev3_CMV_S_1_e	V Flt Phs B	E	REx615 MICS:2014>IEC 61850-7-4:2003
VFltPhC	ABBIED600_Rev3_CMV_S_1_e	V Flt Phs C	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.106 LN: SCEF1ZLIN1 Name: ZLIN (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
LinLenkm	ABBIED600_Rev3_ASG_SG_i	Line section A length		
RPs	ABBIED600_Rev3_ASG_SG_i	Line section A PS resistance		
XPs	ABBIED600_Rev3_ASG_SG_i	Line section A PS reactance		
RZer	ABBIED600_Rev3_ASG_SG_i	Line section A ZS resistance		
XZer	ABBIED600_Rev3_ASG_SG_i	Line section A ZS reactance		

6.1.107 LN: SCEF2ZLIN1 Name: ZLIN (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
LinLenkm	ABBIED600_Rev3_ASG_SG_i	Line section B length		
RPs	ABBIED600_Rev3_ASG_SG_i	Line section B PS resistance		
XPs	ABBIED600_Rev3_ASG_SG_i	Line section B PS reactance		
RZer	ABBIED600_Rev3_ASG_SG_i	Line section B ZS resistance		
XZer	ABBIED600_Rev3_ASG_SG_i	Line section B ZS reactance		

6.1.108 LN: SCEF3ZLIN1 Name: ZLIN (ED1)

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

Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
LinLenkm	ABBIED600_Rev3_ASG_SG_i	Line section C length		
RPs	ABBIED600_Rev3_ASG_SG_i	Line section C PS resistance		
XPs	ABBIED600_Rev3_ASG_SG_i	Line section C PS reactance		
RZer	ABBIED600_Rev3_ASG_SG_i	Line section C ZS resistance		
XZer	ABBIED600_Rev3_ASG_SG_i	Line section C ZS reactance		

6.1.109 LN: IL1TCTR3 Name: TCTR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Mode		
Health	ABBIED600_Rev4_ENS_health	Mode		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
AmpSv	ABBIED600_Rev1_SAV_92_lte	Current (Sampled value) phase A		
ARtg	ABBIED600_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	REx615 MICS:2014>IEC 61850-7-4:2003
ARtgNom	ABBIED600_Rev1_ASG_SP_f_e	Network Nominal Current	E	REx615 MICS:2014>IEC 61850-7-4:2003
VRtgScy-Rat	ABBIED600_Rev1_ASG_SP_f_e	Rated Secondary Value	E	REx615 MICS:2014>IEC 61850-7-4:2003
RevPol	ABBIED600_Rev1_SPG_SP_e	Reverse polarity	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.110 LN: RESTVTR1 Name: TVTR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Mode		
Health	ABBIED600_Rev4_ENS_health	Mode		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only

VolSv	ABBIED600_Rev1_SAV_92_lite	Voltage (sampled value)		
VRtg	AB-BIED600_Rev3_ASG_SP_ARtg_VRtg	Rated primary voltage		
Cor	ABBIED600_Rev1_ASG_SP_f	Voltage phasor magnitude correction of external voltage transformer		
AngCor	ABBIED600_Rev3_ASG_SP_i	Residual Voltage phasor angle correction of an external voltage transformer		
Alm	ABBIED600_Rev1_SPS	Alarm		
Wrn	ABBIED600_Rev1_SPS	Warning		
VRtgScy	ABBIED600_Rev1_ASG_SP_f_e	Rated secondary voltage	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.111 LN: UL1TVTR1 Name: TVTR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Mode		
Health	ABBIED600_Rev4_ENS_health	Mode		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
VolSv	ABBIED600_Rev1_SAV_92_lite	Voltage (sampled value) phase A		
FuFail	ABBIED600_Rev1_SPS	TVTR fuse failure		
VRtg	ABBIED600_Rev3_ASG_SP_ARtg_VRtg	Primary rated voltage		
Rat	ABBIED600_Rev1_ASG_SP_f	Division ratio		
Cor	ABBIED600_Rev1_ASG_SP_f	Amplitude corr. A		
AngCor	ABBIED600_Rev3_ASG_SP_i	Angle corr. A		
Alm	ABBIED600_Rev1_SPS	Alarm		
Wrn	ABBIED600_Rev1_SPS	Warning		
VRtgScy	ABBIED600_Rev1_ASG_SP_f_e	Secondary rated voltage	E	REx615 MICS:2014>IEC 61850-7-4:2003
VConnTyp	AB-BIED600_Rev3_ENG_SP_ConnType_e	VT connection	E	REx615 MICS:2014>IEC 61850-7-4:2003
VInTyp	ABBIED600_Rev2_ENG_SP_AnIn-Type_e	Type of the voltage input	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.112 LN: IL1TCTR1 Name: TCTR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Mode		
Health	ABBIED600_Rev4_ENS_health	Mode		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only

AmpSv	ABBIED600_Rev1_SAV_92_lite	Current (Sampled value) phase A		
ARtg	AB-BIEd600_Rev3_ASg_SP_ARtg_VRtg	Primary rated current		
Cor	ABBIED600_Rev1_ASg_SP_f	Phase A Current phasor magnitude correction of an external current transformer		
AngCor	ABBIED600_Rev3_ASg_SP_i	Phase A Current phasor angle correction of an external current transformer		
Alm	ABBIED600_Rev1_SPS	Alarm		
Wrn	ABBIED600_Rev1_SPS	Warning		
ARtgScy	ABBIED600_Rev2_ENG_SP_ARtgSec_e	Secondary rated current	E	REx615 MICS:2014>IEC 61850-7-4:2003
ARtgNom	ABBIED600_Rev1_ASg_SP_f_e	Network Nominal Current	E	REx615 MICS:2014>IEC 61850-7-4:2003
VRtgScy-Rat	ABBIED600_Rev1_ASg_SP_f_e	Rated Secondary Value	E	REx615 MICS:2014>IEC 61850-7-4:2003
RevPol	ABBIED600_Rev1_SPG_SP_e	Reverse polarity	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.113 LN: RESTCTR1 Name: TCTR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Mode		
Health	ABBIED600_Rev4_ENS_health	Mode		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
AmpSv	ABBIED600_Rev1_SAV_92_lite	Current (Sampled value)		
ARtg	AB-BIEd600_Rev3_ASg_SP_ARtg_VRtg	Primary rated current		
Cor	ABBIED600_Rev1_ASg_SP_f	Current phasor magnitude correction of an external current transformer		
AngCor	ABBIED600_Rev3_ASg_SP_i	Residual Current phasor angle correction of an external current transformer		
Alm	ABBIED600_Rev1_SPS	Alarm		
Wrn	ABBIED600_Rev1_SPS	Warning		
ARtgScy	ABBIED600_Rev2_ENG_SP_ARtgSec_e	Secondary rated current	E	REx615 MICS:2014>IEC 61850-7-4:2003
RevPol	ABBIED600_Rev1_SPG_SP_e	Reverse polarity	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.114 LN: IL1TCTR2 Name: TCTR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Mode		
Health	ABBIED600_Rev4_ENS_health	Mode		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
AmpSv	ABBIED600_Rev1_SAV_92_lite	Current (Sampled value) phase A		
ARtg	AB-BIED600_Rev3_ASG_SP_ARtg_VRtg	Primary rated current		
Cor	ABBIED600_Rev1_ASG_SP_f	Phase A Current phasor magnitude correction of an external current transformer		
AngCor	ABBIED600_Rev3_ASG_SP_i	Phase A Current phasor angle correction of an external current transformer		
Alm	ABBIED600_Rev1_SPS	Alarm		
Wrn	ABBIED600_Rev1_SPS	Warning		
ARtgScy	ABBIED600_Rev2_ENG_SP_ARtgSec_e	Secondary current	E	REx615 MICS:2014>IEC 61850-7-4:2003
ARtgNom	ABBIED600_Rev1_ASG_SP_f_e	Network Nominal Current	E	REx615 MICS:2014>IEC 61850-7-4:2003
VRtgScy-Rat	ABBIED600_Rev1_ASG_SP_f_e	Rated Secondary Value	E	REx615 MICS:2014>IEC 61850-7-4:2003
RevPol	ABBIED600_Rev1_SPG_SP_e	Reverse polarity	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.115 LN: RESTCTR2 Name: TCTR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Mode		
Health	ABBIED600_Rev4_ENS_health	Mode		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
AmpSv	ABBIED600_Rev1_SAV_92_lite	Current (Sampled value)		
ARtg	AB-BIED600_Rev3_ASG_SP_ARtg_VRtg	Primary rated current		
Cor	ABBIED600_Rev1_ASG_SP_f	Current phasor magnitude correction of an external current transformer		
AngCor	ABBIED600_Rev3_ASG_SP_i	Residual Current phasor angle correction of an external current transformer		

Alm	ABBIED600_Rev1_SPS	Alarm		
Wrn	ABBIED600_Rev1_SPS	Warning		
ARtgScy	ABBIED600_Rev2_ENG_SP_ARtgSec_e	Secondary rated current	E	REx615 MICS:2014>IEC 61850-7-4:2003
RevPol	ABBIED600_Rev1_SPG_SP_e	Reverse polarity	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.116 LN: UL1TVTR2 Name: TVTR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Mode		
Health	ABBIED600_Rev4_ENS_health	Mode		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
VolSv	ABBIED600_Rev1_SAV_92_lite	Voltage (sampled value) phase A		
FuFail	ABBIED600_Rev1_SPS	TVTR fuse failure		
VRtg	AB-BIED600_Rev3_ASG_SP_ARtg_VRtg	Primary rated voltage		
Rat	ABBIED600_Rev1_ASG_SP_f	Division ratio		
Cor	ABBIED600_Rev1_ASG_SP_f	Phase A Voltage phasor magnitude correction of an external voltage transformer		
AngCor	ABBIED600_Rev3_ASG_SP_i	Angle corr. A		
Alm	ABBIED600_Rev1_SPS	Alarm		
Wrn	ABBIED600_Rev1_SPS	Warning		
VRtgScy	ABBIED600_Rev1_ASG_SP_f_e	Secondary rated voltage	E	REx615 MICS:2014>IEC 61850-7-4:2003
VConnTyp	AB-BIED600_Rev3_ENG_SP_ConnType_e	VT connection	E	REx615 MICS:2014>IEC 61850-7-4:2003
VInTyp	ABBIED600_Rev2_ENG_SP_AnIn-Type_e	Type of the voltage input	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.117 LN: UL1TVTR3 Name: TVTR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Mode		
Health	ABBIED600_Rev4_ENS_health	Mode		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
VolSv	ABBIED600_Rev1_SAV_92_lite	Voltage (sampled value) phase A		

FuFail	ABBIED600_Rev1_SPS	TVTR fuse failure		
VRtg	AB-BIED600_Rev3_ASG_SP_ARtg_VRtg	Primary rated voltage		
Rat	ABBIED600_Rev1_ASG_SP_f	Division ratio		
Cor	ABBIED600_Rev1_ASG_SP_f	Phase A Voltage phasor magnitude correction of an external voltage transformer		
AngCor	ABBIED600_Rev3_ASG_SP_i	Angle corr. A		
Alm	ABBIED600_Rev1_SPS	Alarm		
Wrn	ABBIED600_Rev1_SPS	Warning		
VRtgScy	ABBIED600_Rev1_ASG_SP_f_e	Secondary rated voltage	E	REx615 MICS:2014>IEC 61850-7-4:2003
VConnTyp	AB-BIED600_Rev3_ENG_SP_ConnType_e	VT connection	E	REx615 MICS:2014>IEC 61850-7-4:2003
VInTyp	ABBIED600_Rev2_ENG_SP_AnIn-Type_e	Type of the voltage input	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.1.118 LN: I3CLPRT1 Name: LPRT (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_Of-fOn_FD_e	Mode	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh_e	Behaviour	E	REx615 MICS:2014>IEC 61850-7-4:2003
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_InNs_1_e	Name plate	E	REx615 MICS:2014>IEC 61850-7-4:2003
CommInt-nOv	ABBIED600_Rev1_SPS	Internal Over-flow		
CommPort	AB-BIED600_Rev3_ENG_SP_CommPort_ED2	Serial port		
UnitAddr	ABBIED600_Rev1_ING_SP_1	Address		
MapSel	ABBIED600_Rev1_ING_SP_1	Mapping select		
StrFrDI	ABBIED600_Rev1_ING_SP_1	Start delay		
EndFrDI	ABBIED600_Rev1_ING_SP_1	End delay		
Cla2Tms	ABBIED600_Rev1_ING_SP_1	Class 2 interval		
Cla2Fr1	AB-BIED600_Rev2_ENG_SP_I3CCls2Frame	Class2 Frame 1 in use		
Cla2Fr2	AB-BIED600_Rev2_ENG_SP_I3CCls2Frame	Class2 Frame 2 in use		
Cla2Fr3	AB-BIED600_Rev2_ENG_SP_I3CCls2Frame	Class2 Frame 3 in use		

Cla2Fr4	AB-BIED600_Rev2_ENG_SP_I3CCls2Frame	Class2 Frame 4 in use		
UsrFcnTyp	ABBIED600_Rev1_ING_SP_1	Function Type for User Class2 Frame		
UsrInfNum	ABBIED600_Rev1_ING_SP_1	Information Number for User Class2 Frame		
Cla1OvInd	ABBIED600_Rev2_ENG_SP_I3COvInd	Class1 Buffer Overflow Indication		
Cla1FcnTyp	ABBIED600_Rev1_ING_SP_1	Function Type for Class1 Buffer Overflow Indication		
Cla1InfNum	ABBIED600_Rev1_ING_SP_1	Information Number for Class1 Buffer Overflow Indication		
Cla1OvBkOf	ABBIED600_Rev1_ING_SP_1	Backoff Range for Class1 Buffer Overflow Indication		
GIOpt	ABBIED600_Rev2_ENG_SP_I3CGIOpt	Optimize GI traffic		
DevFcnTyp	ABBIED600_Rev1_ING_SP_1	Device Function Type		
FrRxCnt	ABBIED600_Rev1_INS	Received frames		
ChkErrCnt	ABBIED600_Rev1_INS	Checksum errors		
FrTxCnt	ABBIED600_Rev1_INS	Transmitted frames		
ChLiv	ABBIED600_Rev1_SPS_e	Status	E	REx615 MICS:2014>IEC 61850-7-4:2003
Cla1Prio	ABBIED600_Rev2_ENG_SP_I3CC1Prio	Class 1 Priority		
RcdEnaMod	ABBIED600_Rev1_SPG_SP	Disturbance Recorder Enabled		
BlkMon	ABBIED600_Rev2_ENG_SP_I3CBlkMon	Blocking of Monitoring Direction		
EnCntFrz	ABBIED600_Rev2_SPC_control	Energy Counter Freeze		status-only,direct-with-normal-security
CntRs	ABBIED600_Rev2_SPC_control	Diagnostic counters reset		status-only,direct-with-normal-security

6.1.119 LN: DNPLPRT1 Name: LPRT (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD_e	Mode	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh_e	Behaviour	E	REx615 MICS:2014>IEC 61850-7-4:2003
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_InNs_1_e	Name plate	E	REx615 MICS:2014>IEC 61850-7-4:2003
CommPort	AB-BIED600_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		
RxTxDITmms	ABBIED600_Rev1_ING_SP_1	Data link Rx to Tx delay		
CharDI	ABBIED600_Rev1_ING_SP_1	Data link inter char delay		
ApILayCnf	ABBIED600_Rev2_ENG_SP_Enable	App layer confirm		
ApICnfTmms	ABBIED600_Rev1_ING_SP_1	App confirm TO		
ApILayFrg	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		

URCl1Tmms	ABBIED600_Rev1_ING_SP_1	UR Class 1 TO		
URCl2	ABBIED600_Rev1_ING_SP_1	UR Class 2 Min events		
URCl2Tmms	ABBIED600_Rev1_ING_SP_1	UR Class 2 TO		
URCl3	ABBIED600_Rev1_ING_SP_1	UR Class 3 Min events		
URCl3Tmms	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	REx615 MICS:2014>IEC 61850-7-4:2003
TCPAuth	ABBIED600_Rev1_ENG_SP_TCPAuth	TCP control authority		
TCPPort	ABBIED600_Rev1_ING_SP_1	TCP port		

ChLiv	ABBIED600_Rev1_SPS_e	Status	E	REx615 MICS:2014>IEC 61850-7-4:2003
CommIntnOv	ABBIED600_Rev1_SPS	Internal Overflow		
IntnOvCnt	ABBIED600_Rev1_INS	Internal Overflow Counter		
FrRxCnt	ABBIED600_Rev1_INS	Received frames		
FrTxCnt	ABBIED600_Rev1_INS	Transmitted frames		
LnkErrCnt	ABBIED600_Rev1_INS	Link errors		
PhyErrCnt	ABBIED600_Rev1_INS	Physical errors		
TranErrCnt	ABBIED600_Rev1_INS	Transport errors		
MapErrCnt	ABBIED600_Rev1_INS	Mapping errors		
CliIP	ABBIED600_Rev1_VSG_2_20	Client IP address		
CntRs	ABBIED600_Rev2_SPC_control	Diagnostic counters reset		status-only,direct-with-normal-security

6.1.120 LN: MBSLPRT1 Name: LPRT (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD_e	Mode	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh_e	Behaviour	E	REx615 MICS:2014>IEC 61850-7-4:2003
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev7_LPL_MBS_ED2_e	Name plate	E	REx615 MICS:2014>IEC 61850-7-4:2003
BufBkOff	ABBIED600_Rev1_ING_SP_1	Event buffer backoff value		
TCPPort	ABBIED600_Rev1_ING_SP_1	TCP listening port		
MapSel	ABBIED600_Rev1_ING_SP_1	Mapping selection		
UnitAddr	ABBIED600_Rev1_ING_SP_1	Slave Address		
StrFrDI	ABBIED600_Rev1_ING_SP_1	Response start delay for serial clients		
EndFrDI	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	REx615 MICS:2014>IEC 61850-7-4:2003
CommInt-nOv	ABBIED600_Rev1_SPS	Internal Overflow indication		
ConnRejSck	ABBIED600_Rev1_INS	Connection rejected due to no socket available		
ConnRejRg	ABBIED600_Rev1_INS	Connection rejected due to unregistered client		
CtlPwd1	ABBIED600_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	AB-BIED600_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_MBEvt-BufMod	Event buffering mode		
CRCOrdr	ABBIED600_Rev2_ENG_SP_CRCOrd	CRC order		
TmFrm	AB-BIED600_Rev2_ENG_SP_MBSTimeFormat	Time format		
ClilP	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

6.1.121 LN: MBMLPRT1 Name: LPRT (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD_e	Mode	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh_e	Behaviour	E	REx615 MICS:2014>IEC 61850-7-4:2003
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_InNs_1_e	Name plate	E	REx615 MICS:2014>IEC 61850-7-4:2003
MapSel	ABBIED600_Rev1_ING_SP_1	Mapping selection		
StrFrDI	ABBIED600_Rev1_ING_SP_1	Response start delay for serial clients		
EndFrDI	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	REx615 MICS:2014>IEC 61850-7-4:2003
LnkMod	ABBIED600_Rev2_ENG_SP_LnkMod	Link mode		
SerPty	ABBIED600_Rev2_ENG_SP_SerPty	Serial parity		
CommPort	AB-BIED600_Rev3_ENG_SP_CommPort_ED2	Port selection		
CntRs	ABBIED600_Rev2_SPC_control	Diagnostic counters reset		status-only,direct-with-normal-security

6.1.122 LN: RDRE1 Name: RDRE (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
RcdTrg	ABBIED600_Rev2_SPC_control	Trig recording		status-only,direct-with-normal-security
MemClr	ABBIED600_Rev2_SPC_control	Disturbance records		status-only,direct-with-normal-security
RcdMade	ABBIED600_Rev1_SPS_simple	Recording made		
FltNum	ABBIED600_Rev1_INS	Number of 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	REx615 MICS:2014>IEC 61850-7-4:2003
RmnRcdCap	ABBIED600_Rev1_INS_e	Rem. amount of rec.	E	REx615 MICS:2014>IEC 61850-7-4:2003
MemFullSt	ABBIED600_Rev1_SPS_simple_e	Memory full	E	REx615 MICS:2014>IEC 61850-7-4:2003
OvWrRcdInd	ABBIED600_Rev1_SPS_simple_e	Overwrite of rec.	E	REx615 MICS:2014>IEC 61850-7-4:2003
PreTrgLen	ABBIED600_Rev1_ING_SP_1_e	Pre-trg length	E	REx615 MICS:2014>IEC 61850-7-4:2003
RcdLen	ABBIED600_Rev1_ING_SP_1_e	Record length	E	REx615 MICS:2014>IEC 61850-7-4:2003
StoRteSel	AB-BIED600_Rev2_ING_SP_EStoRte_e	Storage rate	E	REx615 MICS:2014>IEC 61850-7-4:2003

StoModPer	ABBIED600_Rev2_ENG_SP_ESto- Mod_e	Stor. mode pe- riodic	E	REx615 MICS:2014>IEC 61850-7-4:2003
StoModMan	ABBIED600_Rev2_ENG_SP_ESto- Mod_e	Stor. mode manual	E	REx615 MICS:2014>IEC 61850-7-4:2003
PerTmRmn	ABBIED600_Rev1_INS_e	Time to trigger	E	REx615 MICS:2014>IEC 61850-7-4:2003
PerTrgInd	ABBIED600_Rev1_SPS_simple_e	Periodic trig- gering	E	REx615 MICS:2014>IEC 61850-7-4:2003
ManTrgInd	ABBIED600_Rev1_SPS_simple_e	Manual trigger- ing	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2 3.2 Extented Logical Nodes

6.2.1 LN: CMMXU1 Name: MMXU (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
A	AB- BIED600_Rev3_WYE_threephase_full_i	Phase currents		
AMeas- Mod	ABBIED600_Rev2_ENG_SP_Meas- Mod_e	Selects used measurement mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
NumPh	AB- BIED600_Rev2_ENG_SP_StrPhSel_e	Number of phases required by limit supervi- sion	E	REx615 MICS:2014>IEC 61850-7-4:2003
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	REx615 MICS:2014>IEC 61850-7-4:2003
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	REx615 MICS:2014>IEC 61850-7-4:2003
LoWrn	ABBIED600_Rev1_SPS_e	Low warning	E	REx615 MICS:2014>IEC 61850-7-4:2003
LoAlm	ABBIED600_Rev1_SPS_e	Low alarm	E	REx615 MICS:2014>IEC 61850-7-4:2003
RcdRs	ABBIED600_Rev2_SPC_control_e	CMMXU1 de- mands	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.2 LN: CAVMMXU1 Name: MMXU (ED1)

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

Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
A	AB-BIED600_Rev3_WYE_threephase_simpler_i	Phase current		
ClcMth	ABBIED600_Rev2_ENG_SP_ClcMth	Calculation method of statistical data objects	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClcMod	ABBIED600_Rev1_ENG_SP_ClcMod	Calculation mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClcSrc	ABBIED600_Rev2_ORG_SP_1	Object reference to source logical node		

6.2.3 LN: CMAMMXU1 Name: MMXU (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
A	AB-BIED600_Rev3_WYE_threephase_simpler_i	Phase current		
ClcMth	ABBIED600_Rev2_ENG_SP_ClcMth	Calculation method of statistical data objects	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClcMod	ABBIED600_Rev1_ENG_SP_ClcMod	Calculation mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClcSrc	ABBIED600_Rev2_ORG_SP_1	Object reference to source logical node		

6.2.4 LN: CMIMMXU1 Name: MMXU (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
A	AB-BIED600_Rev3_WYE_threephase_simpler_i	Phase current		
ClcMth	ABBIED600_Rev2_ENG_SP_ClcMth	Calculation method of statistical data objects	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClcMod	ABBIED600_Rev1_ENG_SP_ClcMod	Calculation mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClcSrc	ABBIED600_Rev2_ORG_SP_1	Object reference to source logical node		

6.2.5 LN: RESCMMXU1 Name: MMXU (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
A	ABBIED600_Rev3_WYE_res_full_i	Residual current		
AMeas-Mod	AB-BIED600_Rev2_ENG_SP_Meas-Mod_e	Selects used measurement mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	REx615 MICS:2014>IEC 61850-7-4:2003
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	REx615 MICS:2014>IEC 61850-7-4:2003
RcdRs	ABBIED600_Rev2_SPC_control_e	RESCMMXU1 demands	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.6 LN: RCAVMMXU1 Name: MMXU (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
A	ABBIED600_Rev3_WYE_res_simpler_i	Residual current		
ClcMth	AB-BIED600_Rev2_ENG_SP_ClcMth	Calculation method of statistical data objects	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClcMod	AB-BIED600_Rev1_ENG_SP_ClcMod	Calculation mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClcSrc	ABBIED600_Rev2_ORG_SP_1	Object reference to source logical node		

6.2.7 LN: RCMAMMXU1 Name: MMXU (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
A	ABBIED600_Rev3_WYE_res_simpler_i	residual current		

ClcMth	AB-BIED600_Rev2_ENG_SP_ClcMth	Calculation method of statistical data objects	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClcMod	AB-BIED600_Rev1_ENG_SP_ClcMod	Calculation mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClcSrc	ABBIED600_Rev2_ORG_SP_1	Object reference to source logical node		

6.2.8 LN: RCMIMMXU1 Name: MMXU (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
A	ABBIED600_Rev3_WYE_res_simpler_i	residual current		
ClcMth	AB-BIED600_Rev2_ENG_SP_ClcMth	Calculation method of statistical data objects	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClcMod	AB-BIED600_Rev1_ENG_SP_ClcMod	Calculation mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClcSrc	ABBIED600_Rev2_ORG_SP_1	Object reference to source logical node		

6.2.9 LN: PHLPTOC1 Name: PTOC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
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		
OpDITmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
TypRsCrv	AB-BIED600_Rev3_ENG_SG_TypRsCrv	Type of Reset Curve		

RsDITmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	REx615 MICS:2014>IEC 61850-7-4:2003
NumPh	AB-BIED600_Rev2_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrValMult	ABBIED600_Rev3_ASG_SG_i_e	Multiplier for scaling the start value	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
AMeasMod	ABBIED600_Rev2_ENG_SP_Meas-Mod_e	Measuring mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.10 LN: PHHPTOC1 Name: PTOC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
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		
OpDITmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
TypRsCrv	AB-BIED600_Rev3_ENG_SG_TypRsCrv	Type of Reset Curve		
RsDITmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	REx615 MICS:2014>IEC 61850-7-4:2003

NumPh	AB-BIED600_Rev2_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrValMult	ABBIED600_Rev3_ASG_SG_i_e	Multiplier for scaling the start value	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
AMeasMod	ABBIED600_Rev2_ENG_SP_Meas-Mod_e	Measuring mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.11 LN: PHPTOC2 Name: PTOC (ED1)

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		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
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		
OpDITmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
TypRsCrv	AB-BIED600_Rev3_ENG_SG_TypRsCrv	Type of Reset Curve		
RsDITmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	REx615 MICS:2014>IEC 61850-7-4:2003
NumPh	AB-BIED600_Rev2_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	REx615 MICS:2014>IEC 61850-7-4:2003

StrValMult	ABBIED600_Rev3_ASG_SG_i_e	Multiplier for scaling the start value	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
AMeasMod	ABBIED600_Rev2_ENG_SP_Meas-Mod_e	Measuring mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.12 LN: PHIPTOC1 Name: PTOC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
OpDITmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDITmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	REx615 MICS:2014>IEC 61850-7-4:2003
NumPh	AB-BIED600_Rev2_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrValMult	ABBIED600_Rev3_ASG_SG_i_e	Multiplier for scaling the start value	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.13 LN: NSPTOC1 Name: PTOC (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
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		
OpDITmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
TypRsCrv	AB-BIED600_Rev3_ENG_SG_TypRsCrv	Type of Reset Curve		
RsDITmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrValMult	ABBIED600_Rev3_ASG_SG_i_e	Multiplier for scaling the start value	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.14 LN: NSPTOC2 Name: PTOC (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
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		
OpDITmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
TypRsCrv	AB-BIED600_Rev3_ENG_SG_TypRsCrv	Type of Reset Curve		
RsDITmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrValMult	ABBIED600_Rev3_ASG_SG_i_e	Multiplier for scaling the start value	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.15 LN: PDNSPTOC1 Name: PTOC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
OpDITmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDITmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
ImbNgA	ABBIED600_Rev3_MV_simple_i_e	Measured current ratio I2 / I1	E	REx615 MICS:2014>IEC 61850-7-4:2003

MinPhA	ABBIED600_Rev3_ASG_SP_i_e	Minimum phase current	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	AB-BIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.16 LN: T1PTTR1 Name: PTTR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
Tmp	ABBIED600_Rev3_MV_simple_i	TEMP		
TmpRI	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	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
InEnaMult	ABBIED600_Rev1_SPS_e	Enable multiplier for reference setting	E	REx615 MICS:2014>IEC 61850-7-4:2003
BlkThm	ABBIED600_Rev1_SPS	Block reclose signal	E	REx615 MICS:2014>IEC 61850-7-4:2003
TmpUsed	ABBIED600_Rev3_MV_simple_i_e	The ambient temperature used in the calculation	E	REx615 MICS:2014>IEC 61850-7-4:2003
TmpAmb	ABBIED600_Rev3_MV_simple_i_e	Ambient temperature	E	REx615 MICS:2014>IEC 61850-7-4:2003
OpTm	ABBIED600_Rev1_INS_e	Estimated time to operate	E	REx615 MICS:2014>IEC 61850-7-4:2003
BlkThmRsTm	ABBIED600_Rev1_INS_e	Estimated time to deactivate BLK_CLOSE	E	REx615 MICS:2014>IEC 61850-7-4:2003

AMult	ABBIED600_Rev1_ING_SG_e	Current reference multiplier for thermal model	E	REx615 MICS:2014>IEC 61850-7-4:2003
ARef	ABBIED600_Rev3_ASG_SG_i_e	Current reference for thermal model	E	REx615 MICS:2014>IEC 61850-7-4:2003
EnvTmpSet	ABBIED600_Rev3_ASG_SG_i_e	Ambient temperature	E	REx615 MICS:2014>IEC 61850-7-4:2003
IniTmp	ABBIED600_Rev3_ASG_SP_i_e	Temperature calculation initial value	E	REx615 MICS:2014>IEC 61850-7-4:2003
RecTmpSet	ABBIED600_Rev3_ASG_SG_i_e	Temperature for reset of BLK_CLOSE after operate	E	REx615 MICS:2014>IEC 61850-7-4:2003
TmpR	ABBIED600_Rev3_ASG_SG_i_e	Temperature rise	E	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	AB-BIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.17 LN: INRPHAR1 Name: PHAR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
Str	AB-BIED600_Rev1_ACD_threephase	Start		
PhStr	ABBIED600_Rev3_ASG_SG_i	Start value		
OpDITmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDITmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.18 LN: CCBRBRF1 Name: RBRF (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only

Str	ABBIED600_Rev1_ACD_simple	Delayed CB failure alarm		
OpEx	ABBIED600_Rev1_ACT_simple	Breaker failure trip (external trip)		
OpIn	ABBIED600_Rev1_ACT_simple	Operate, retrip (internal trip)		
FailMod	ABBIED600_Rev2_ENG_SP_FailMod	Breaker Failure Detection Mode (current, breaker status, both, other)		
FailTmms	ABBIED600_Rev1_ING_SP	Breaker Failure Time Delay for bus bar trip		
TPTTrTmms	ABBIED600_Rev1_ING_SP_e	Three Pole Retrip Time Delay	E	REx615 MICS:2014>IEC 61850-7-4:2003
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	REx615 MICS:2014>IEC 61850-7-4:2003
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
Det-ValARes	ABBIED600_Rev3_ASG_SP_i_e	Current Detector Value for residual current	E	REx615 MICS:2014>IEC 61850-7-4:2003
AMeasMod	ABBIED600_Rev2_ENG_SP_Meas-Mod_e	Measurement mode selection (current): 2= DFT; 3= Peak-to-Peak	E	REx615 MICS:2014>IEC 61850-7-4:2003
CBAlm-Tmms	ABBIED600_Rev1_ING_SP_e	Circuit breaker faulty alarm delay	E	REx615 MICS:2014>IEC 61850-7-4:2003
OpExMod	ABBIED600_Rev2_ENG_SP_buTrip-Mode_e	Select type of backup trip logic	E	REx615 MICS:2014>IEC 61850-7-4:2003
InStr	ABBIED600_Rev1_SPS_e	CBFP start command	E	REx615 MICS:2014>IEC 61850-7-4:2003
InPosClz	ABBIED600_Rev1_SPS_e	CB in closed position	E	REx615 MICS:2014>IEC 61850-7-4:2003
InCBFlt	ABBIED600_Rev1_SPS_e	CB faulty and unable to trip	E	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003, status-only,direct-with-normal-security
StrLtcMod	ABBIED600_Rev2_ENG_SP_StrLtcMod_e	Start reset delayed or immediately	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.19 LN: TRPPTRC1 Name: PTRC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
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Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	BLOCK		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
Tr	ABBIED600_Rev1_ACT_simple_dU	General trip output signal		
Op	ABBIED600_Rev1_ACT_simple_dU	Operate input signal		
TrPlsTmms	ABBIED600_Rev1_ING_SP_1	Minimum duration of trip output signal		
TrOutMod	AB-BIED600_Rev2_ENG_SP_TrOut-Mod_e	Trip output mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
LORs	ABBIED600_Rev2_SPC_indications_e	RST_LKOUT	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
TrRs	ABBIED600_Rev2_SPC_indications_e	Reset latched trip	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
ClsLO	ABBIED600_Rev1_SPS_e	Circuit breaker lock-out output (set until reset)	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.20 LN: TRPPTRC2 Name: PTRC (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
Tr	ABBIED600_Rev1_ACT_simple_dU	General trip output signal		
Op	ABBIED600_Rev1_ACT_simple_dU	Operate input signal		
TrPlsTmms	ABBIED600_Rev1_ING_SP_1	Minimum duration of trip output signal		
TrOutMod	AB-BIED600_Rev2_ENG_SP_TrOut-Mod_e	Trip output mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
LORs	ABBIED600_Rev2_SPC_indications_e	RST_LKOUT	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security

TrRs	ABBIED600_Rev2_SPC_indications_e	Reset latched trip	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
ClsLO	ABBIED600_Rev1_SPS_e	Circuit breaker lock-out output (set until reset)	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.21 LN: TCSSCBR1 Name: SCBR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
OpDITmms	ABBIED600_Rev1_ING_SP_1_e	Operate Delay Time		
RsDITmms	ABBIED600_Rev1_ING_SP_1_e	Reset Delay Time		
CircAlm	ABBIED600_Rev1_SPS_e	Alarm		
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs		status-only,direct-with-normal-security
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.22 LN: TCSSCBR2 Name: SCBR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
OpDITmms	ABBIED600_Rev1_ING_SP_1_e	Operate Delay Time		
RsDITmms	ABBIED600_Rev1_ING_SP_1_e	Reset Delay Time		
CircAlm	ABBIED600_Rev1_SPS_e	Alarm		
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs		status-only,direct-with-normal-security
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.23 LN: TPGAPC1 Name: GACP (ED1)

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

Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Str		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Op		ED1 only
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
SPCSO1	ABBIED600_Rev1_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple	Q2		status-only
PlsTmms	ABBIED600_Rev1_ING_SP_1_e	Minimum pulse time		

6.2.24 LN: TPGAPC2 Name: GACP (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Str		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Op		ED1 only
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
SPCSO1	ABBIED600_Rev1_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple	Q2		status-only
PlsTmms	ABBIED600_Rev1_ING_SP_1_e	Minimum pulse time		

6.2.25 LN: TPGAPC3 Name: GACP (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Str		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Op		ED1 only
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
SPCSO1	ABBIED600_Rev1_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple	Q2		status-only
PlsTmms	ABBIED600_Rev1_ING_SP_1_e	Minimum pulse time		

6.2.26 LN: TPGAPC4 Name: GACP (ED1)

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

Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Str		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Op		ED1 only
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
SPCSO1	ABBIED600_Rev1_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple	Q2		status-only
PlsTmms	ABBIED600_Rev1_ING_SP_1_e	Minimum pulse time		

6.2.27 LN: ESMGAPC1 Name: GACP (ED1)

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		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
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	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.28 LN: STTPMSS1 Name: PMSS (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Signal to show that motor startup is in progress		
Op	ABBIED600_Rev1_ACT_simple	Operate/trip signal for stalling protection.		
MotStr	ABBIED600_Rev3_ASG_SG_i	Current value to indicate starting of motor		

Lo-kRotTms	ABBIED600_Rev1_ING_SG	Lock Rotor Time, permissible locked rotor time		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
OpMod-StUp	ABBIED600_Rev2_ENG_SP_Op-ModStUp_e	Motor start-up operation mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrOvDIT-mms	ABBIED600_Rev1_ING_SG_e	Time delay to check for completion of motor startup period	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_simple_i_e	Start time relative to the operate time for stall cond	E	REx615 MICS:2014>IEC 61850-7-4:2003
EnaEmg-Str	ABBIED600_Rev1_SPS_e	Enable emergency start to disable lock of start motor	E	REx615 MICS:2014>IEC 61850-7-4:2003
Stllnd	ABBIED600_Rev1_SPS_e	Input signal for showing the motor is not stalling	E	REx615 MICS:2014>IEC 61850-7-4:2003
BlkLOStr	ABBIED600_Rev1_SPS_e	Blocks lock out condition for restart of motor	E	REx615 MICS:2014>IEC 61850-7-4:2003
InPosCls	ABBIED600_Rev1_SPS_e	Input showing the status of motor circuit breaker	E	REx615 MICS:2014>IEC 61850-7-4:2003
TestPro	AB-BIED600_Rev1_ENC_TestPro_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
MotStop	ABBIED600_Rev3_ASG_SP_i_e	Current limit to check for motor standstill condition	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.29 LN: PREVPTOC1 Name: PTOC (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
OpDITmms	ABBIED600_Rev1_ING_SG	Operate time delay		
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003

TstOutCmd	AB-BIED600_Rev20_ENC_TstOut_e	PREVPTOC1	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
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6.2.30 LN: JAMPTOC1 Name: PTOC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
Str	AB-BIED600_Rev1_ACD_threephase	Start		
Op	AB-BIED600_Rev1_ACT_threephase	Operate		
StrVal	ABBIED600_Rev3_ASG_SP_i	Start value		
OpDITmms	ABBIED600_Rev1_ING_SP	Operate Delay Time		
RsDITmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.31 LN: MPTTR1 Name: PTTR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
TmpRI	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 motor		
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	E	REx615 MICS:2014>IEC 61850-7-4:2003
ARef	ABBIED600_Rev3_ASG_SP_i_e	Rated current (FLC) of the motor	E	REx615 MICS:2014>IEC 61850-7-4:2003
RsTmp	ABBIED600_Rev2_SPC_control_e	MPTTR1 temperature	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
DropoutVal	ABBIED600_Rev3_ASG_SG_i	Restart thermal Val	E	REx615 MICS:2014>IEC 61850-7-4:2003
WghFact	ABBIED600_Rev3_ASG_SG_i_e	Weighting factor	E	REx615 MICS:2014>IEC 61850-7-4:2003
OvlFact	ABBIED600_Rev3_ASG_SG_i_e	Overload factor (k)	E	REx615 MICS:2014>IEC 61850-7-4:2003
NgSeqFact	ABBIED600_Rev3_ASG_SG_i_e	Heating effect factor for negative sequence current	E	REx615 MICS:2014>IEC 61850-7-4:2003
EnvTmpSet	ABBIED600_Rev3_ASG_SG_i_e	Ambient temperature	E	REx615 MICS:2014>IEC 61850-7-4:2003
IniTmp	ABBIED600_Rev3_ASG_SP_i_e	Initial thermal Val	E	REx615 MICS:2014>IEC 61850-7-4:2003
EnvTmp-Mod	ABBIED600_Rev2_ENG_SG_EnvTmpMod_e	Mode of measuring ambient temperature	E	REx615 MICS:2014>IEC 61850-7-4:2003
EnaEmgStr	ABBIED600_Rev1_SPS_e	Enable emergency start to disable lock of start motor	E	REx615 MICS:2014>IEC 61850-7-4:2003
TmpUsed	ABBIED600_Rev3_MV_simple_i_e	The ambient temperature used in the calculation	E	REx615 MICS:2014>IEC 61850-7-4:2003
TmpAmb	ABBIED600_Rev3_MV_simple_i_e	Ambient temperature	E	REx615 MICS:2014>IEC 61850-7-4:2003
ThmLevStr	ABBIED600_Rev3_MV_simple_i_e	Thermal level at beginning of motor startup	E	REx615 MICS:2014>IEC 61850-7-4:2003
ThmLevEnd	ABBIED600_Rev3_MV_simple_i_e	Thermal level at the end of motor startup situation	E	REx615 MICS:2014>IEC 61850-7-4:2003
BlkThmTms	ABBIED600_Rev1_INS_e	Estimated time to reset of block restart	E	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	AB-BIED600_Rev20_ENC_TstOut_e	MPTTR1	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.32 LN: LOFLPTUC1 Name: PTUC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i	Current setting/Start value high		
OpDITmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDITmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
BlkValA	ABBIED600_Rev3_ASG_SG_i_e	Current setting/Start value low	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	AB-BIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.33 LN: EFLPTOC1 Name: PTOC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
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		
OpDITmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
TypRsCrv	AB-BIED600_Rev3_ENG_SG_TypRsCrv	Type of Reset Curve		
RsDITmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
AMeasMod	ABBIED600_Rev2_ENG_SP_Meas-Mod_e	Measurement mode selection	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrValMult	ABBIED600_Rev3_ASG_SG_i_e	Multiplier for operate current level	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
InEnaMult	ABBIED600_Rev1_SPS_e	Enable current multiplier	E	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
AResSigSel	AB-BIED600_Rev2_ENG_SP_AResSig-Sel_e	Selection for used Io signal	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.34 LN: EFHPTOC1 Name: PTOC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
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		
OpDITmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		

TypRsCrv	AB-BIED600_Rev3_ENG_SP_TypRsCrv	Type of Reset Curve		
RsDITmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
AMeasMod	ABBIED600_Rev2_ENG_SP_Meas-Mod_e	Measurement mode selection	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrValMult	ABBIED600_Rev3_ASG_SG_i_e	Multiplier for operate current level	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
InEnaMult	ABBIED600_Rev1_SPS_e	Enable current multiplier	E	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
AResSigSel	AB-BIED600_Rev2_ENG_SP_AResSigSel_e	Selection for used Io signal	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.35 LN: PTGAPC1 Name: GACP (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Start		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Operate		ED1 only
Ind1	ABBIED600_Rev1_SPS	Input 1		
Ind2	ABBIED600_Rev1_SPS	Input 2		
Ind3	ABBIED600_Rev1_SPS	Input 3		
Ind4	ABBIED600_Rev1_SPS	Input 4		
Ind5	ABBIED600_Rev1_SPS	Input 5		
Ind6	ABBIED600_Rev1_SPS	Input 6		
Ind7	ABBIED600_Rev1_SPS	Input 7		
Ind8	ABBIED600_Rev1_SPS	Input 8		
SPCSO1	ABBIED600_Rev1_SPC_simple	Output 1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple	Output 2		status-only
SPCSO3	ABBIED600_Rev1_SPC_simple	Output 3		status-only
SPCSO4	ABBIED600_Rev1_SPC_simple	Output 4		status-only
SPCSO5	ABBIED600_Rev1_SPC_simple	Output 5		status-only
SPCSO6	ABBIED600_Rev1_SPC_simple	Output 6		status-only
SPCSO7	ABBIED600_Rev1_SPC_simple	Output 7		status-only
SPCSO8	ABBIED600_Rev1_SPC_simple	Output 8		status-only

PlsTmms1	ABBIED600_Rev1_ING_SP_e	Pulse time 1		
PlsTmms2	ABBIED600_Rev1_ING_SP_e	Pulse time 2		
PlsTmms3	ABBIED600_Rev1_ING_SP_e	Pulse time 3		
PlsTmms4	ABBIED600_Rev1_ING_SP_e	Pulse time 4		
PlsTmms5	ABBIED600_Rev1_ING_SP_e	Pulse time 5		
PlsTmms6	ABBIED600_Rev1_ING_SP_e	Pulse time 6		
PlsTmms7	ABBIED600_Rev1_ING_SP_e	Pulse time 7		
PlsTmms8	ABBIED600_Rev1_ING_SP_e	Pulse time 8		

6.2.36 LN: PTGAPC2 Name: GACP (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Start		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Operate		ED1 only
Ind1	ABBIED600_Rev1_SPS	Input 1		
Ind2	ABBIED600_Rev1_SPS	Input 2		
Ind3	ABBIED600_Rev1_SPS	Input 3		
Ind4	ABBIED600_Rev1_SPS	Input 4		
Ind5	ABBIED600_Rev1_SPS	Input 5		
Ind6	ABBIED600_Rev1_SPS	Input 6		
Ind7	ABBIED600_Rev1_SPS	Input 7		
Ind8	ABBIED600_Rev1_SPS	Input 8		
SPCSO1	ABBIED600_Rev1_SPC_simple	Output 1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple	Output 2		status-only
SPCSO3	ABBIED600_Rev1_SPC_simple	Output 3		status-only
SPCSO4	ABBIED600_Rev1_SPC_simple	Output 4		status-only
SPCSO5	ABBIED600_Rev1_SPC_simple	Output 5		status-only
SPCSO6	ABBIED600_Rev1_SPC_simple	Output 6		status-only
SPCSO7	ABBIED600_Rev1_SPC_simple	Output 7		status-only
SPCSO8	ABBIED600_Rev1_SPC_simple	Output 8		status-only
PlsTmms1	ABBIED600_Rev1_ING_SP_e	Pulse time 1		
PlsTmms2	ABBIED600_Rev1_ING_SP_e	Pulse time 2		
PlsTmms3	ABBIED600_Rev1_ING_SP_e	Pulse time 3		
PlsTmms4	ABBIED600_Rev1_ING_SP_e	Pulse time 4		
PlsTmms5	ABBIED600_Rev1_ING_SP_e	Pulse time 5		
PlsTmms6	ABBIED600_Rev1_ING_SP_e	Pulse time 6		
PlsTmms7	ABBIED600_Rev1_ING_SP_e	Pulse time 7		
PlsTmms8	ABBIED600_Rev1_ING_SP_e	Pulse time 8		

6.2.37 LN: MAPGAPC1 Name: GAPC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
OpDITmms	ABBIED600_Rev1_ING_SG_e	Operate delay time	E	REx615 MICS:2014>IEC 61850-7-4:2003
RsDITmms	ABBIED600_Rev1_ING_SP_e	Reset delay time	E	REx615 MICS:2014>IEC 61850-7-4:2003
AnIn	ABBIED600_Rev3_MV_2_e	Analogue input	E	REx615 MICS:2014>IEC 61850-7-4:2003
OpModCom	ABBIED600_Rev2_ENG_SP_OpModComp_e	Operation mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
HysAbs	ABBIED600_Rev3_ASG_SP_i_e	Absolute hysteresis for operation	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrValAdd	ABBIED600_Rev3_ASG_SG_i_e	Start value Add	E	REx615 MICS:2014>IEC 61850-7-4:2003
InEnaAdd	ABBIED600_Rev1_SPS_e	Enable start with added start value	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.38 LN: BSTGGIO1 Name: GGIO (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
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		
PlsTmms2	ABBIED600_Rev1_ING_SG_e	Minimum pulse time for received signal 2		
PlsTmms3	ABBIED600_Rev1_ING_SG_e	Minimum pulse time for received signal 3		
PlsTmms4	ABBIED600_Rev1_ING_SG_e	Minimum pulse time for received signal 4		
PlsTmms5	ABBIED600_Rev1_ING_SG_e	Minimum pulse time for received signal 5		
PlsTmms6	ABBIED600_Rev1_ING_SG_e	Minimum pulse time for received signal 6		
PlsTmms7	ABBIED600_Rev1_ING_SG_e	Minimum pulse time for received signal 7		
PlsTmms8	ABBIED600_Rev1_ING_SG_e	Minimum pulse time for received signal 8		
AlmMod	ABBIED600_Rev2_ENG_SP_Alm-Mod_e	Alarm mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
SigMod1	AB-BIED600_Rev2_ENG_SG_BstMode_e	Signal 1 mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
SigMod2	AB-BIED600_Rev2_ENG_SG_BstMode_e	Signal 2 mode	E	REx615 MICS:2014>IEC 61850-7-4:2003

SigMod3	AB-BIED600_Rev2_ENG_SG_BstMode_e	Signal 3 mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
SigMod4	AB-BIED600_Rev2_ENG_SG_BstMode_e	Signal 4 mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
SigMod5	AB-BIED600_Rev2_ENG_SG_BstMode_e	Signal 5 mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
SigMod6	AB-BIED600_Rev2_ENG_SG_BstMode_e	Signal 6 mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
SigMod7	AB-BIED600_Rev2_ENG_SG_BstMode_e	Signal 7 mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
SigMod8	AB-BIED600_Rev2_ENG_SG_BstMode_e	Signal 8 mode	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.39 LN: LNPTRC1 Name: PTRC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn-Test_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
Op	ABBIED600_Rev1_ACT_threephase	Operate		
Str	ABBIED600_Rev1_ACD_threephase	Start		
ProAct	ABBIED600_Rev1_SPS_e	Protection active	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.40 LN: LNLPDIF1 Name: PDIF (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
DifACIc	AB-BIED600_Rev3_WYE_threephase_simple_i	Differential Current		
RstA	AB-BIED600_Rev3_WYE_threephase_simple_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		
RsDITmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
TmACrv	ABBIED600_Rev2_CURVE_SG_setCharact	Operating Curve Type		
OpDITmms	ABBIED600_Rev1_ING_SG_e	Operate Delay Time		
TmMult	ABBIED600_Rev3_ASG_SG_i_e	Time Dial Multiplier		
StrRem	ABBIED600_Rev1_ACD_threephase_e	Start stab. stage remote	E	REx615 MICS:2014>IEC 61850-7-4:2003
OpRem	ABBIED600_Rev1_ACT_threephase_e	Operate stab. stage remote	E	REx615 MICS:2014>IEC 61850-7-4:2003
Blk2HRemSt	ABBIED600_Rev1_ACT_threephase_e	Restrained due 2nd harm. detected remote	E	REx615 MICS:2014>IEC 61850-7-4:2003
Blk2HLocSt	ABBIED600_Rev1_ACT_threephase_e	Restrained due 2nd harm. detected local	E	REx615 MICS:2014>IEC 61850-7-4:2003
EndScn1	ABBIED600_Rev3_ASG_SG_i_e	End section 1	E	REx615 MICS:2014>IEC 61850-7-4:2003
SpeScn2	ABBIED600_Rev3_ASG_SG_i_e	Slope section 2	E	REx615 MICS:2014>IEC 61850-7-4:2003
EndScn2	ABBIED600_Rev3_ASG_SG_i_e	End section 2	E	REx615 MICS:2014>IEC 61850-7-4:2003
SpeScn3	ABBIED600_Rev3_ASG_SG_i_e	Slope section 3	E	REx615 MICS:2014>IEC 61850-7-4:2003
Blk	ABBIED600_Rev1_SPS_simple	Blocks stab. stage		
An-gLocRemA	ABBIED600_Rev3_MV_simple_i_e	Local and remote phase A angle difference	E	REx615 MICS:2014>IEC 61850-7-4:2003
An-gLocRemB	ABBIED600_Rev3_MV_simple_i_e	Local and remote phase B angle difference	E	REx615 MICS:2014>IEC 61850-7-4:2003
An-gLocRemC	ABBIED600_Rev3_MV_simple_i_e	Local and remote phase C angle difference	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time, local	E	REx615 MICS:2014>IEC 61850-7-4:2003
TestPro	ABBIED600_Rev1_ENC_TestPro_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security

CTConnTyp	AB-BIED600_Rev2_ENG_SP_CTConnTyp_e	CT connection type. Determined by the directions of the connected current transformers.	E	REx615 MICS:2014>IEC 61850-7-4:2003
WndSel	ABBIED600_Rev2_ENG_SP_WndSel_e	Winding selection, HV or LV side of transformer	E	REx615 MICS:2014>IEC 61850-7-4:2003
Wnd1Typ	ABBIED600_Rev3_ENG_SP_Wnd1Typ_e	Winding 1 type	E	REx615 MICS:2014>IEC 61850-7-4:2003
Wnd2Typ	ABBIED600_Rev3_ENG_SP_Wnd2Typ_e	Winding 2 type	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClkNum	ABBIED600_Rev2_ENG_SP_ClkNum_e	Phase shift	E	REx615 MICS:2014>IEC 61850-7-4:2003
ZroAEIm	ABBIED600_Rev4_ENG_SP_ZroAEIm_e	Zro A elimination	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.41 LN: LNHPDIF1 Name: PDIF (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
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	REx615 MICS:2014>IEC 61850-7-4:2003
InEnaMltHi	ABBIED600_Rev1_SPS_simple_e	Enables the high stage multiplier	E	REx615 MICS:2014>IEC 61850-7-4:2003
OpRem	AB-BIED600_Rev1_ACT_threephase_e	Operate inst. stage remote	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.42 LN: PHIPTOC2 Name: PTOC (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003

Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
OpDITmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDITmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	REx615 MICS:2014>IEC 61850-7-4:2003
NumPh	AB-BIED600_Rev2_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrValMult	ABBIED600_Rev3_ASG_SG_i_e	Multiplier for scaling the start value	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.43 LN: PHLPTOC2 Name: PTOC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
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		
OpDITmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
TypRsCrv	AB-BIED600_Rev3_ENG_SG_TypRsCrv	Type of Reset Curve		
RsDITmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		

InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	REx615 MICS:2014>IEC 61850-7-4:2003
NumPh	AB-BIED600_Rev2_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrValMult	ABBIED600_Rev3_ASG_SG_i_e	Multiplier for scaling the start value	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
AMeasMod	ABBIED600_Rev2_ENG_SP_Meas-Mod_e	Measuring mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.44 LN: SSIMG1 Name: SIMG (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
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	E	REx615 MICS:2014>IEC 61850-7-4:2003
PresBlk	ABBIED600_Rev1_SPS_e	Binary pressure input for lockout indication	E	REx615 MICS:2014>IEC 61850-7-4:2003
InsAlmTmms	AB-BIED600_Rev1_ING_SP_1_e	Time delay for gas pressure alarm.	E	REx615 MICS:2014>IEC 61850-7-4:2003
InsBlkTmms	ABBIED600_Rev1_ING_SP_e	Time delay for gas pressure lockout.	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.45 LN: TR2PTRC1 Name: PTRC (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003

Op	ABBIED600_Rev1_ACT_threephase	Operate signal		
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6.2.46 LN: T2PTTR1 Name: PTTR (ED1)

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		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
Tmp	ABBIED600_Rev3_MV_simple_i	TEMP		
TmpRI	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	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
BlkThm	ABBIED600_Rev1_SPS	Block reclose signal	E	REx615 MICS:2014>IEC 61850-7-4:2003
TmpUsed	ABBIED600_Rev3_MV_simple_i_e	The ambient temperature used in the calculation	E	REx615 MICS:2014>IEC 61850-7-4:2003
TmpAmb	ABBIED600_Rev3_MV_simple_i_e	Ambient temperature	E	REx615 MICS:2014>IEC 61850-7-4:2003
ARef	ABBIED600_Rev3_ASG_SG_i_e	Current reference for thermal model	E	REx615 MICS:2014>IEC 61850-7-4:2003
EnvTmpSet	ABBIED600_Rev3_ASG_SG_i_e	Ambient temperature	E	REx615 MICS:2014>IEC 61850-7-4:2003
IniTmp	ABBIED600_Rev3_ASG_SP_i_e	Initial temperature	E	REx615 MICS:2014>IEC 61850-7-4:2003
RecTmpSet	ABBIED600_Rev3_ASG_SG_i_e	Temperature for reset of BLK_CLOSE after operate	E	REx615 MICS:2014>IEC 61850-7-4:2003
TmpR	ABBIED600_Rev3_ASG_SG_i_e	Temperature reference for thermal model	E	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-

				only,direct-with-normal-security
WghFact	ABBIED600_Rev3_ASG_SG_i_e	Weighting factor of the short time constant	E	REx615 MICS:2014>IEC 61850-7-4:2003
OpTmp	ABBIED600_Rev3_ASG_SG_i_e	Operate temperature, percent value	E	REx615 MICS:2014>IEC 61850-7-4:2003
OpTm	ABBIED600_Rev2_INS_Unit_e	Estimated time to operate	E	REx615 MICS:2014>IEC 61850-7-4:2003
BlkThmRsTm	ABBIED600_Rev2_INS_Unit_e	Estimated time to deactivate InhRec	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.47 LN: MNSPTOC1 Name: PTOC (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	AB-BIED600_Rev2_CURVE SG_setCharact	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i	Machine time Mult		
MinOp-Tmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
Max-OpTmms	ABBIED600_Rev1_ING_SP	Maximum Operate Time		
OpDITmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDITmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
StrInh	ABBIED600_Rev1_SPS_e	Overheated machine reconnection blocking		
ARef	ABBIED600_Rev3_ASG_SP_i_e	Rated current (Ir) of the machine (used only in the IDMT)	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003

TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
CITms	ABBIED600_Rev1_ING_SP_1_e	Cooling time	E	REx615 MICS:2014>IEC 61850-7-4:2003
TmsRecEna	ABBIED600_Rev1_INS_e	Estimated time to reset of block restart	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.48 LN: MNSPTOC2 Name: PTOC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	AB-BIED600_Rev2_CURVE SG_setCharacter	Operating Curve Type		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i	Machine time Mult		
MinOp-Tmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
Max-OpTmms	ABBIED600_Rev1_ING_SP	Maximum Operate Time		
OpDITmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDITmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
StrInh	ABBIED600_Rev1_SPS_e	Overheated machine reconnection blocking		
ARef	ABBIED600_Rev3_ASG_SP_i_e	Rated current (Ir) of the machine (used only in the IDMT)	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security

CITms	ABBIED600_Rev1_ING_SP_1_e	Cooling time	E	REx615 MICS:2014>IEC 61850-7-4:2003
TmsRecEna	ABBIED600_Rev1_INS_e	Estimated time to reset of block restart	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.49 LN: PHPTUV1 Name: PTUV (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmVCr	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		
OpDIT-mms	ABBIED600_Rev1_ING SG	Operate Delay Time		
RsDIT-mms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
TypRsCr	AB-BIED600_Rev3_ENG SG_TypRsCr_e	Type of Reset Curve	E	REx615 MICS:2014>IEC 61850-7-4:2003
BlkVal	ABBIED600_Rev3_ASG SP_i_e	Voltage block value	E	REx615 MICS:2014>IEC 61850-7-4:2003
NumPh	AB-BIED600_Rev2_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
TestPro	ABBIED600_Rev1_ENC_TestPro_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
CrSatRI	ABBIED600_Rev1_ASG_SP_f_e	Tuning parameter to avoid curve discontinuities	E	REx615 MICS:2014>IEC 61850-7-4:2003
VSel	ABBIED600_Rev3_ENG_SP_VSel_e	Parameter to select phase or phase-to-phase voltages	E	REx615 MICS:2014>IEC 61850-7-4:2003

EnaBlkVal	ABBIED600_Rev1_SPG_SP_e	Enable block value	E	REx615 MICS:2014>IEC 61850-7-4:2003
HysRI	ABBIED600_Rev3_ASG_SP_i_e	Relative hysteresis for operation	E	REx615 MICS:2014>IEC 61850-7-4:2003
TypTmRs	AB-BIED600_Rev2_ENG_SG_TypTmRs_e	Type of time reset	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.50 LN: PHPTUV2 Name: PTUV (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmVCr	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		
OpDIT-mms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDIT-mms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
TypRsCr	AB-BIED600_Rev3_ENG_SG_TypRsCr_e	Type of Reset Curve	E	REx615 MICS:2014>IEC 61850-7-4:2003
BlkVal	ABBIED600_Rev3_ASG_SP_i_e	Voltage block value	E	REx615 MICS:2014>IEC 61850-7-4:2003
NumPh	AB-BIED600_Rev2_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
TestPro	ABBIED600_Rev1_ENC_TestPro_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
CrvSatRI	ABBIED600_Rev1_ASG_SP_f_e	Tuning parameter to avoid curve discontinuities	E	REx615 MICS:2014>IEC 61850-7-4:2003
VSel	ABBIED600_Rev3_ENG_SP_VSel_e	Parameter to select phase or	E	REx615 MICS:2014>IEC 61850-7-4:2003

		phase-to-phase voltages		
EnaBlkVal	ABBIED600_Rev1_SPG_SP_e	Enable block value	E	REx615 MICS:2014>IEC 61850-7-4:2003
HysRI	ABBIED600_Rev3_ASG_SP_i_e	Relative hysteresis for operation	E	REx615 MICS:2014>IEC 61850-7-4:2003
TypTmRs	AB-BIED600_Rev2_ENG_SG_TypTmRs_e	Type of time reset	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.51 LN: PHPTUV3 Name: PTUV (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
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		
OpDIT-mms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDIT-mms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
TypRsCrv	AB-BIED600_Rev3_ENG_SG_TypRsCrv_e	Type of Reset Curve	E	REx615 MICS:2014>IEC 61850-7-4:2003
BlkVal	ABBIED600_Rev3_ASG_SP_i_e	Voltage block value	E	REx615 MICS:2014>IEC 61850-7-4:2003
NumPh	AB-BIED600_Rev2_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
TestPro	ABBIED600_Rev1_ENC_TestPro_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003, status-only,direct-with-normal-security
CrSatRI	ABBIED600_Rev1_ASG_SP_f_e	Tuning parameter to avoid curve discontinuities	E	REx615 MICS:2014>IEC 61850-7-4:2003

VSel	ABBIED600_Rev3_ENG_SP_VSel_e	Parameter to select phase or phase-to-phase voltages	E	REx615 MICS:2014>IEC 61850-7-4:2003
EnaBlkVal	ABBIED600_Rev1_SPG_SP_e	Enable block value	E	REx615 MICS:2014>IEC 61850-7-4:2003
HysRI	ABBIED600_Rev3_ASG_SP_i_e	Relative hysteresis for operation	E	REx615 MICS:2014>IEC 61850-7-4:2003
TypTmRs	AB-BIED600_Rev2_ENG_SG_TypTmRs_e	Type of time reset	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.52 LN: PHPTOV1 Name: PTOV (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
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		
OpDIT-mms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDIT-mms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
TypRsCrv	AB-BIED600_Rev3_ENG_SG_TypRsCrv_e	Type of Reset Curve	E	REx615 MICS:2014>IEC 61850-7-4:2003
NumPh	AB-BIED600_Rev2_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
TestPro	ABBIED600_Rev1_ENC_TestPro_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
CrvSatRI	ABBIED600_Rev1_ASG_SP_f_e	Tuning parameter to avoid curve discontinuities	E	REx615 MICS:2014>IEC 61850-7-4:2003

VSel	ABBIED600_Rev3_ENG_SP_VSel_e	Parameter to select phase or phase-to-phase voltages	E	REx615 MICS:2014>IEC 61850-7-4:2003
HysRI	ABBIED600_Rev3_ASG_SP_i_e	Relative hysteresis for operation	E	REx615 MICS:2014>IEC 61850-7-4:2003
TypTmRs	AB-BIED600_Rev2_ENG_SG_TypTmRs_e	Type of time reset	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.53 LN: PHPTOV2 Name: PTOV (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
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		
OpDIT-mms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDIT-mms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
TypRsCrv	AB-BIED600_Rev3_ENG_SG_TypRsCrv_e	Type of Reset Curve	E	REx615 MICS:2014>IEC 61850-7-4:2003
NumPh	AB-BIED600_Rev2_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
TestPro	ABBIED600_Rev1_ENC_TestPro_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
CrvSatRI	ABBIED600_Rev1_ASG_SP_f_e	Tuning parameter to avoid curve discontinuities	E	REx615 MICS:2014>IEC 61850-7-4:2003
VSel	ABBIED600_Rev3_ENG_SP_VSel_e	Parameter to select phase or	E	REx615 MICS:2014>IEC 61850-7-4:2003

		phase-to-phase voltages		
HysRI	ABBIED600_Rev3_ASG_SP_i_e	Relative hysteresis for operation	E	REx615 MICS:2014>IEC 61850-7-4:2003
TypTmRs	AB-BIED600_Rev2_ENG_SG_TypTmRs_e	Type of time reset	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.54 LN: PHPTOV3 Name: PTOV (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
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		
OpDIT-mms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDIT-mms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
TypRsCrv	AB-BIED600_Rev3_ENG_SG_TypRsCrv_e	Type of Reset Curve	E	REx615 MICS:2014>IEC 61850-7-4:2003
NumPh	AB-BIED600_Rev2_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
TestPro	ABBIED600_Rev1_ENC_TestPro_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
CrvSatRI	ABBIED600_Rev1_ASG_SP_f_e	Tuning parameter to avoid curve discontinuities	E	REx615 MICS:2014>IEC 61850-7-4:2003
VSel	ABBIED600_Rev3_ENG_SP_VSel_e	Parameter to select phase or phase-to-phase voltages	E	REx615 MICS:2014>IEC 61850-7-4:2003

HysRI	ABBIED600_Rev3_ASG_SP_i_e	Relative hysteresis for operation	E	REx615 MICS:2014>IEC 61850-7-4:2003
TypTmRs	AB-BIED600_Rev2_ENG_SG_TypTmRs_e	Type of time reset	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.55 LN: VMMXU1 Name: MMXU (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
PPV	AB-BIED600_Rev3_DEL_threephase_full_i	Phase to phase voltages		
PhV	ABBIED600_Rev3_WYE_4	Phase to ground voltages		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
VMeas-Mod	ABBIED600_Rev2_ENG_SP_Meas-Mod_e	Selects used measurement mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
NumPh	AB-BIED600_Rev2_ENG_SP_StrPhSel_e	Num of phases	E	REx615 MICS:2014>IEC 61850-7-4:2003
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	REx615 MICS:2014>IEC 61850-7-4:2003
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	REx615 MICS:2014>IEC 61850-7-4:2003
LoWrn	ABBIED600_Rev1_SPS_e	Low warning	E	REx615 MICS:2014>IEC 61850-7-4:2003
LoAlm	ABBIED600_Rev1_SPS_e	Low alarm	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.56 LN: VAVMMXU1 Name: MMXU (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
PPV	ABBIED600_Rev3_DEL_5_simpler	Phase to phase voltages		
PhV	ABBIED600_Rev3_WYE_threephase_simpler_i	Phase to earth voltages		
ClcMth	ABBIED600_Rev2_ENG_SP_ClcMth	Calculation method	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClcMod	ABBIED600_Rev1_ENG_SP_ClcMod	Calculation mode	E	REx615 MICS:2014>IEC 61850-7-4:2003

ClcSrc	ABBIED600_Rev2_ORG_SP_1	Calculation start		
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6.2.57 LN: COL1PTOC1 Name: PTOC (ED1)

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		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev3_ASG_SG_i	Time Dial Multiplier		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
NumPh	ABBIED600_Rev2_ENG_SP_StrPhSel_e	Number of phases required for operate activation		
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time		
PkIntgAPhA	ABBIED600_Rev3_MV_simple_i_e	Peak value of integrated current phase A		
PkIntgAPhB	ABBIED600_Rev3_MV_simple_i_e	Peak value of integrated current phase B		
PkIntgAPhC	ABBIED600_Rev3_MV_simple_i_e	Peak value of integrated current phase C		
TestPro	ABBIED600_Rev1_ENC_TestPro_e	Test control for outputs		status-only,direct-with-normal-security

6.2.58 LN: CUB1PTOC1 Name: PTOC (ED1)

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		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i	Alarm start value		

OpDITmms	ABBIED600_Rev1_ING_SG	Alarm delay time		
FailCnt	ABBIED600_Rev2_INC_control_int_e	Total number of capacitor element failures		status-only,direct-with-normal-security
CntBr1PhsA	ABBIED600_Rev2_INC_control_int_e	Capacitor element failures in branch1 of phase A		status-only,direct-with-normal-security
CntBr2PhsA	ABBIED600_Rev2_INC_control_int_e	Capacitor element failures in branch2 of phase A		status-only,direct-with-normal-security
CntBr1PhsB	ABBIED600_Rev2_INC_control_int_e	Capacitor element failures in branch1 of phase B		status-only,direct-with-normal-security
CntBr2PhsB	ABBIED600_Rev2_INC_control_int_e	Capacitor element failures in branch2 of phase B		status-only,direct-with-normal-security
CntBr1PhsC	ABBIED600_Rev2_INC_control_int_e	Capacitor element failures in branch1 of phase C		status-only,direct-with-normal-security
CntBr2PhsC	ABBIED600_Rev2_INC_control_int_e	Capacitor element failures in branch2 of phase C		status-only,direct-with-normal-security
CntRs	ABBIED600_Rev2_SPC_control_e	Reset all counters		status-only,direct-with-normal-security
FailCntLim	ABBIED600_Rev1_ING_SG_e	Maximum permissible element failures		
NatCom-pEna	ABBIED600_Rev1_SPG_SG_e	Enable natural unbalance compensation		
RcdUnb	ABBIED600_Rev2_SPC_control_e	Record natural Unbalance current		status-only,direct-with-normal-security
CubAlmMod	AB-BIED600_Rev2_ENG_SG_CubAlmMod_e	Alarm mode		
FuLoc	ABBIED600_Rev2_ENG_SG_FuLoc_e	Capacitor bank fuse location		
NatUnbCur	ABBIED600_Rev3_WYE_neut_simple_angle_i_e	Natural unbalance current		
CompUn-bCur	ABBIED600_Rev3_WYE_neut_simple_angle_i_e	Compensated unbalance current		
TestPro	ABBIED600_Rev1_ENC_TestPro_e	Test control for outputs		status-only,direct-with-normal-security

6.2.59 LN: HCUB1PTOC1 Name: PTOC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only

NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i	Alarm start value		
OpDITmms	ABBIED600_Rev1_ING_SG	Alarm delay time		
Com-pEnaPhsA	ABBIED600_Rev1_SPG_SG_e	Enable natural unbalance compensation ph A		
Com-pEnaPhsB	ABBIED600_Rev1_SPG_SG_e	Enable natural unbalance compensation ph B		
Com-pEnaPhsC	ABBIED600_Rev1_SPG_SG_e	Enable natural unbalance compensation ph C		
UnbRcdPh	ABBIED600_Rev1_ENC_RcdUnbPh_e	Record natural Unbalance current		status-only,direct-with-normal-security
NatUnbCur	ABBIED600_Rev3_WYE_4_e	Natural unbalance current		
CompUnbCur	ABBIED600_Rev3_WYE_4_e	Compensated unbalance current		
TestPro	ABBIED600_Rev1_ENC_TestPro_e	Test control for outputs		status-only,direct-with-normal-security

6.2.60 LN: SRC1PTOC1 Name: PTOC (ED1)

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		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start Value		
OpDITmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
TunHNum	ABBIED600_Rev1_ING_SG_e	Tuning Harmonic Number	E	REx615 MICS:2014>IEC 61850-7-4:2003
ResoA	AB-BIED600_Rev3_WYE_threephase_simple_i_e	Resonance Current	E	REx615 MICS:2014>IEC 61850-7-4:2003

TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
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6.2.61 LN: DPHLPTOC1 Name: PTOC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
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		
OpDIT-mms	ABBIED600_Rev1_ING SG	Operate Delay Time		
TypRsCrv	AB-BIED600_Rev3_ENG SG_TypRsCrv	Type of Reset Curve		
RsDIT-mms	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	REx615 MICS:2014>IEC 61850-7-4:2003
NumPh	AB-BIED600_Rev2_ENG SP_StrPhSel_e	Number of phases required for operate activation	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrValMult	ABBIED600_Rev3_ASG SG_i_e	Multiplier for scaling the start value	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
AMeas-Mod	ABBIED600_Rev2_ENG SP_Meas-Mod_e	Measuring mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
TestPro	ABBIED600_Rev1_ENC_TestPro_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
AllwNon-Dir	ABBIED600_Rev1_SPG_SP_e	Allows prot activation as non-dir when dir info is invalid	E	REx615 MICS:2014>IEC 61850-7-4:2003

NonDir	ABBIED600_Rev1_SPS_e	Forces protection to non-directional	E	REx615 MICS:2014>IEC 61850-7-4:2003
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6.2.62 LN: DPHHPTOC1 Name: PTOC (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
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		
OpDIT-mms	ABBIED600_Rev1_ING SG	Operate Delay Time		
TypRsCrv	AB-BIED600_Rev3_ENG SG_TypRsCrv	Selection of reset curve type		
RsDIT-mms	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	REx615 MICS:2014>IEC 61850-7-4:2003
NumPh	AB-BIED600_Rev2_ENG SP_StrPhSel_e	Number of phases required for operate activation	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrValMult	ABBIED600_Rev3_ASG SG_i_e	Multiplier for scaling the start value	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
AMeas-Mod	ABBIED600_Rev2_ENG SP_Meas-Mod_e	Selects used measurement mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
TestPro	ABBIED600_Rev1_ENC_TestPro_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
AllwNon-Dir	ABBIED600_Rev1_SPG_SP_e	Allows prot activation as non-dir when dir info is invalid	E	REx615 MICS:2014>IEC 61850-7-4:2003

NonDir	ABBIED600_Rev1_SPS_e	Forces protection to non-directional	E	REx615 MICS:2014>IEC 61850-7-4:2003
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6.2.63 LN: DEFLPTOC1 Name: PTOC (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
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		
MinOp-Tmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
OpDITmms	ABBIED600_Rev1_ING SG	Operate Delay Time		
TypRsCrv	AB-BIED600_Rev3_ENG SG_TypRsCrv	Selection of reset curve type		
RsDITmms	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	REx615 MICS:2014>IEC 61850-7-4:2003
StrValMult	ABBIED600_Rev3_ASG SG_i_e	Multiplier for scaling the start value	E	REx615 MICS:2014>IEC 61850-7-4:2003
AllwNonDir	ABBIED600_Rev1_SPG SP_e	Allows prot activation as non-dir when dir info is invalid	E	REx615 MICS:2014>IEC 61850-7-4:2003
AMeasMod	ABBIED600_Rev2_ENG SP_Meas-Mod_e	Selects used measurement mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
InEnaMult	ABBIED600_Rev1_SPS_e	Enables current multiplier	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
EnaVLim	ABBIED600_Rev1_SPG SG_e	Enable voltage limit	E	REx615 MICS:2014>IEC 61850-7-4:2003

TestPro	ABBIED600_Rev1_ENC_TestPro_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
AResSigSel	AB-BIED600_Rev2_ENG_SP_AResSigSel_e	Selection for used lo signal	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.64 LN: MFADPSDE1 Name: PSDE (ED1)

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		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
GndStr	ABBIED600_Rev3_ASG_SG_i	Voltage start value		
StrDITmms	ABBIED600_Rev1_ING_SP_1	Start delay time		
OpDITmms	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	E	REx615 MICS:2014>IEC 61850-7-4:2003
RsDITmms	ABBIED600_Rev1_ING_SP_1_e	Reset Delay Time	E	REx615 MICS:2014>IEC 61850-7-4:2003
ItmEFLnd	ABBIED600_Rev1_SPS_e	Intermittent earth-fault indication	E	REx615 MICS:2014>IEC 61850-7-4:2003
InhEF	ABBIED600_Rev1_SPS_e	Block EF	E	REx615 MICS:2014>IEC 61850-7-4:2003
PkInd	ABBIED600_Rev1_SPS_e	Current transient detection indication	E	REx615 MICS:2014>IEC 61850-7-4:2003
TrgSt	ABBIED600_Rev1_SPS_simple_e	Signal indicating function triggering	E	REx615 MICS:2014>IEC 61850-7-4:2003
PkCntLim	ABBIED600_Rev1_ING_SP_1_e	Min requirement for peak counter before start in IEF mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
TestPro	ABBIED600_Rev2_ENC_TestPro_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
OpModTEF	ABBIED600_Rev3_ENG_SP_Op-ModTEF_e	Operation mode for function	E	REx615 MICS:2014>IEC 61850-7-4:2003

AResSigSel	AB-BIED600_Rev2_ENG_SP_AResSigSel_e	Selection for used Io signal	E	REx615 MICS:2014>IEC 61850-7-4:2003
VResSigSel	AB-BIED600_Rev2_ENG_SP_VResSigSel_e	Selection for used Uo signal	E	REx615 MICS:2014>IEC 61850-7-4:2003
GndOpRev	ABBIED600_Rev3_ASG_SP_i_e	Ground operate value in reverse direction	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.65 LN: DEFHPTOC1 Name: PTOC (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
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		
OpDITmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
TypRsCrv	AB-BIED600_Rev3_ENG_SG_TypRsCrv	Selection of reset curve type		
RsDITmms	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	REx615 MICS:2014>IEC 61850-7-4:2003
StrValMult	ABBIED600_Rev3_ASG_SG_i_e	Multiplier for scaling the start value	E	REx615 MICS:2014>IEC 61850-7-4:2003
AllwNonDir	ABBIED600_Rev1_SPG_SP_e	Allows prot activation as non-dir when dir info is invalid	E	REx615 MICS:2014>IEC 61850-7-4:2003

AMeasMod	ABBIED600_Rev2_ENG_SP_Meas-Mod_e	Selects used measurement mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
InEnaMult	ABBIED600_Rev1_SPS_e	Enables current multiplier	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
EnaVLim	ABBIED600_Rev1_SPG_SG_e	Enable voltage limit	E	REx615 MICS:2014>IEC 61850-7-4:2003
TestPro	ABBIED600_Rev1_ENC_TestPro_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
AResSigSel	AB-BIED600_Rev2_ENG_SP_AResSig-Sel_e	Selection for used Io signal	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.66 LN: ROVPTOV1 Name: PTOV (ED1)

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		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i	Residual Over Voltage start value		
OpDITmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDITmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
VResSigSel	ABBIED600_Rev2_ENG_SP_VRes-SigSel_e	Selection for used Uo signal	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.67 LN: ROVPTOV2 Name: PTOV (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i	Residual Over Voltage start value		
OpDITmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDITmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
VResSigSel	ABBIED600_Rev2_ENG_SP_VRes-SigSel_e	Selection for used Uo signal	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.68 LN: ROVPTOV3 Name: PTOV (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i	Residual Over Voltage start value		
OpDITmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDITmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003

StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
VResSigSel	ABBIED600_Rev2_ENG_SP_VRes-SigSel_e	Selection for used Uo signal	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.69 LN: PSPTUV1 Name: PTUV (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
OpDITmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDITmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
BlkVal	ABBIED600_Rev3_ASG_SG_i_e	Voltage block value	E	REx615 MICS:2014>IEC 61850-7-4:2003
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
EnaBlkVal	ABBIED600_Rev1_SPG_SG_e	Enable block value	E	REx615 MICS:2014>IEC 61850-7-4:2003
HysRI	ABBIED600_Rev3_ASG_SP_i_e	Relative hysteresis for operation	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.70 LN: PSPTUV2 Name: PTUV (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only

NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
OpDITmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDITmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
BlkVal	ABBIED600_Rev3_ASG_SG_i_e	Voltage block value	E	REx615 MICS:2014>IEC 61850-7-4:2003
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	AB-BIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
EnaBlkVal	ABBIED600_Rev1_SPG_SG_e	Enable block value	E	REx615 MICS:2014>IEC 61850-7-4:2003
HysRI	ABBIED600_Rev3_ASG_SP_i_e	Relative hysteresis for operation	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.71 LN: NSPTOV1 Name: PTOV (ED1)

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		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
OpDITmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDITmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	AB-BIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.72 LN: NSPTOV2 Name: PTOV (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
OpDITmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDITmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	AB-BIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.73 LN: FRPTRC1 Name: PTRC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
Op	ABBIED600_Rev1_ACT_simple	Operate		
Str	ABBIED600_Rev1_ACD_simple	Start		
TestPro	ABBIED600_Rev1_ENC_TestPro_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
OpMod-ProHz	ABBIED600_Rev2_ENG_SG_OpModProHz_e	Operation mode	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.74 LN: FRPTRC2 Name: PTRC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
Op	ABBIED600_Rev1_ACT_simple	Operate		
Str	ABBIED600_Rev1_ACD_simple	Start		
TestPro	ABBIED600_Rev1_ENC_TestPro_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
OpMod-ProHz	ABBIED600_Rev2_ENG_SG_OpModProHz_e	Operation mode	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.75 LN: FRPTRC3 Name: PTRC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
Op	ABBIED600_Rev1_ACT_simple	Operate		
Str	ABBIED600_Rev1_ACD_simple	Start		
TestPro	ABBIED600_Rev1_ENC_TestPro_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
OpMod-ProHz	ABBIED600_Rev2_ENG_SG_OpModProHz_e	Operation mode	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.76 LN: CCBRBRF2 Name: RBRF (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Delayed CB failure alarm		
OpEx	ABBIED600_Rev1_ACT_simple	Breaker failure trip (external trip)		
OpIn	ABBIED600_Rev1_ACT_simple	Operate, retrip (internal trip)		
FailMod	ABBIED600_Rev2_ENG_SP_FailMod	Breaker Failure Detection Mode (current, breaker status, both, other)		
FailTmms	ABBIED600_Rev1_ING_SP	Breaker Failure Time Delay for bus bar trip		
TPTTrTmms	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	REx615 MICS:2014>IEC 61850-7-4:2003
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
Det-ValARes	ABBIED600_Rev3_ASG_SP_i_e	Current Detector Value for residual current	E	REx615 MICS:2014>IEC 61850-7-4:2003
AMeasMod	ABBIED600_Rev2_ENG_SP_Meas-Mod_e	Measurement mode selection (current): 2= DFT; 3= Peak-to-Peak	E	REx615 MICS:2014>IEC 61850-7-4:2003
CBAlm-Tmms	ABBIED600_Rev1_ING_SP_e	Circuit breaker faulty alarm delay	E	REx615 MICS:2014>IEC 61850-7-4:2003
OpExMod	ABBIED600_Rev2_ENG_SP_buTrip-Mode_e	Select type of backup trip logic	E	REx615 MICS:2014>IEC 61850-7-4:2003
InStr	ABBIED600_Rev1_SPS_e	CBFP start command	E	REx615 MICS:2014>IEC 61850-7-4:2003
InPosCls	ABBIED600_Rev1_SPS_e	CB in closed position	E	REx615 MICS:2014>IEC 61850-7-4:2003
InCBFlt	ABBIED600_Rev1_SPS_e	CB faulty and unable to trip	E	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
StrLtcMod	ABBIED600_Rev2_ENG_SP_StrLtcMod_e	Start reset delayed or immediately	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.77 LN: SSIMG2 Name: SIMG (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
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	E	REx615 MICS:2014>IEC 61850-7-4:2003
PresBlk	ABBIED600_Rev1_SPS_e	Binary pressure input for lockout indication	E	REx615 MICS:2014>IEC 61850-7-4:2003
InsAlmTmms	AB-BIED600_Rev1_ING_SP_1_e	Time delay for gas pressure alarm.	E	REx615 MICS:2014>IEC 61850-7-4:2003
InsBlkTmms	ABBIED600_Rev1_ING_SP_e	Time delay for gas pressure lockout.	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.78 LN: DEFLPTOC2 Name: PTOC (ED1)

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		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
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		
MinOp-Tmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
OpDITmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
TypRsCrv	AB-BIED600_Rev3_ENG_SG_TypRsCrv	Selection of reset curve type		
RsDITmms	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	REx615 MICS:2014>IEC 61850-7-4:2003
StrValMult	ABBIED600_Rev3_ASG_SG_i_e	Multiplier for scaling the start value	E	REx615 MICS:2014>IEC 61850-7-4:2003
AllwNonDir	ABBIED600_Rev1_SPG_SP_e	Allows prot activation as non-dir when dir info is invalid	E	REx615 MICS:2014>IEC 61850-7-4:2003
AMeasMod	ABBIED600_Rev2_ENG_SP_Meas-Mod_e	Selects used measurement mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
InEnaMult	ABBIED600_Rev1_SPS_e	Enables current multiplier	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_simple_i_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
EnaVLim	ABBIED600_Rev1_SPG_SG_e	Enable voltage limit	E	REx615 MICS:2014>IEC 61850-7-4:2003
TestPro	ABBIED600_Rev1_ENC_TestPro_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
AResSigSel	AB-BIED600_Rev2_ENG_SP_AResSig-Sel_e	Selection for used lo signal	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.79 LN: INTRPTEF1 Name: PTEF (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
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_SP_Dir-Mod	Directional Mode		
OpDITmms	ABBIED600_Rev1_ING_SG_e	Operate Delay Time	E	REx615 MICS:2014>IEC 61850-7-4:2003
RsDITmms	ABBIED600_Rev1_ING_SP_1_e	Reset Delay Time	E	REx615 MICS:2014>IEC 61850-7-4:2003
BlkValA	ABBIED600_Rev3_ASG_SP_i_e	Minimum operating current	E	REx615 MICS:2014>IEC 61850-7-4:2003
InhEF	ABBIED600_Rev1_SPS_e	Block EF	E	REx615 MICS:2014>IEC 61850-7-4:2003

StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
PkCntLim	ABBIED600_Rev1_ING_SP_1_e	Min requirement for peak counter before start in IEF mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	AB-BIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
OpModTEF	ABBIED600_Rev2_ENG_SP_Op-ModTEF_e	Operation mode for function	E	REx615 MICS:2014>IEC 61850-7-4:2003
VResSigSel	AB-BIED600_Rev2_ENG_SP_VRes-SigSel_e	Selection for used Uo signal	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.80 LN: EFLPTOC2 Name: PTOC (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
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		
OpDITmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
TypRsCrv	AB-BIED600_Rev3_ENG_SG_TypRsCrv	Type of Reset Curve		
RsDITmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
AMeasMod	ABBIED600_Rev2_ENG_SP_Meas-Mod_e	Measurement mode selection	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrValMult	ABBIED600_Rev3_ASG_SG_i_e	Multiplier for operate current level	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003

InEnaMult	ABBIED600_Rev1_SPS_e	Enable current multiplier	E	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
AResSigSel	AB-BIED600_Rev2_ENG_SP_AResSigSel_e	Selection for used lo signal	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.81 LN: EFIPTOC1 Name: PTOC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
OpDITmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDITmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
StrValMult	ABBIED600_Rev3_ASG_SG_i_e	Multiplier for operate current level	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
InEnaMult	ABBIED600_Rev1_SPS_e	Enable current multiplier	E	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
AResSigSel	AB-BIED600_Rev2_ENG_SP_AResSigSel_e	Selection for used lo signal	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.82 LN: DPHLPTOC2 Name: PTOC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only

NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
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		
OpDIT-mms	ABBIED600_Rev1_ING SG	Operate Delay Time		
TypRsCrv	AB-BIED600_Rev3_ENG SG_TypRsCrv	Type of Reset Curve		
RsDIT-mms	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	REx615 MICS:2014>IEC 61850-7-4:2003
NumPh	AB-BIED600_Rev2_ENG SP_StrPhSel_e	Number of phases required for operate activation	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrValMult	ABBIED600_Rev3_ASG SG_i_e	Multiplier for scaling the start value	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
AMeas-Mod	ABBIED600_Rev2_ENG SP_Meas-Mod_e	Measuring mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
TestPro	ABBIED600_Rev1_ENC_TestPro_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
AllwNon-Dir	ABBIED600_Rev1_SPG_SP_e	Allows prot activation as non-dir when dir info is invalid	E	REx615 MICS:2014>IEC 61850-7-4:2003
NonDir	ABBIED600_Rev1_SPS_e	Forces protection to non-directional	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.83 LN: SECRSYN1 Name: RSYN (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only

Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Rel	ABBIED600_Rev1_SPS	Release		
VInd	ABBIED600_Rev1_SPS	Voltage Difference Indicator		
AngInd	ABBIED600_Rev1_SPS	Angle Difference Indicator		
HzInd	ABBIED600_Rev1_SPS	Frequency difference Indicator		
SynPrg	ABBIED600_Rev1_SPC_simple	Synchronising in progress		status-only
DifVClc	ABBIED600_Rev3_MV_simple_i	Calculated Difference in Voltage		
DifHzClc	ABBIED600_Rev3_MV_simple_i	Calculated Difference in Frequency		
DifAngClc	ABBIED600_Rev3_MV_simple_i	Calculated Difference of Phase Angle		
DifV	ABBIED600_Rev3_ASG_SG_i	Difference Voltage		
DifHz	ABBIED600_Rev3_ASG_SG_i	Difference Frequency		
DifAng	ABBIED600_Rev3_ASG_SG_i	Difference Phase Angle		
LivDeaMod	ABBIED600_Rev3_ENG_SG_Liv-DeaMod	Live Dead Mode		
DeaLinVal	ABBIED600_Rev3_ASG_SP_i	Dead Line Value		
LivLinVal	ABBIED600_Rev3_ASG_SP_i	Live Line Value		
DeaBusVal	ABBIED600_Rev3_ASG_SP_i	Dead Bus Value		
LivBusVal	ABBIED600_Rev3_ASG_SP_i	Live Bus Value		
PlsTmms	ABBIED600_Rev1_ING_SP_e	Close Pulse Time		
CBTmms	ABBIED600_Rev1_ING_SP_e	Closing time of the breaker	E	REx615 MICS:2014>IEC 61850-7-4:2003
FailCmd	ABBIED600_Rev1_SPS_e	CB closing request failed	E	REx615 MICS:2014>IEC 61850-7-4:2003
FailSyn	ABBIED600_Rev1_SPS_e	CB closing failed	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClzRq	ABBIED600_Rev1_SPS_e	External closing request	E	REx615 MICS:2014>IEC 61850-7-4:2003
Byps	ABBIED600_Rev1_SPS_e	Request to bypass synchronism check and voltage check	E	REx615 MICS:2014>IEC 61850-7-4:2003
LLDBInd	ABBIED600_Rev1_SPS_e	Live Line, Dead Bus	E	REx615 MICS:2014>IEC 61850-7-4:2003
LLLBlnd	ABBIED600_Rev1_SPS_e	Live Line, Live Bus	E	REx615 MICS:2014>IEC 61850-7-4:2003
DLLBlnd	ABBIED600_Rev1_SPS_e	Dead Line, Live Bus	E	REx615 MICS:2014>IEC 61850-7-4:2003
DLDBInd	ABBIED600_Rev1_SPS_e	Dead Line, Dead Bus	E	REx615 MICS:2014>IEC 61850-7-4:2003

OpModSC	ABBIED600_Rev2_ENG_SP_Op-ModSC_e	Synchrocheck mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
OpModCtl	ABBIED600_Rev2_ENG_SP_Op-ModCtl_e	Selection of synchro check command or Continuous control mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
EnSt	AB-BIED600_Rev2_ENS_EnergSt_e	Energization state of Line and Bus	E	REx615 MICS:2014>IEC 61850-7-4:2003
MaxVEn	ABBIED600_Rev3_ASG_SP_i_e	Maximum voltage for energizing	E	REx615 MICS:2014>IEC 61850-7-4:2003
PhSht	ABBIED600_Rev3_ASG_SP_i_e	Correction of phase difference between measured U_BUS and U_LINE	E	REx615 MICS:2014>IEC 61850-7-4:2003
EnTmms	ABBIED600_Rev1_ING_SP_e	Time delay for energizing check	E	REx615 MICS:2014>IEC 61850-7-4:2003
MaxSynTmms	ABBIED600_Rev1_ING_SP_e	Maximum time to accept synchronizing	E	REx615 MICS:2014>IEC 61850-7-4:2003
MinSynTmms	ABBIED600_Rev1_ING_SP_e	Minimum time to accept synchronizing	E	REx615 MICS:2014>IEC 61850-7-4:2003
TestCtl	AB-BIED600_Rev1_ENC_TestCtl_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.84 LN: RESVMMXU1 Name: MMXU (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
PhV	ABBIED600_Rev3_WYE_res_full_i	Residual voltage		
VMeas-Mod	AB-BIED600_Rev2_ENG_SP_Meas-Mod_e	Selects used measurement mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	REx615 MICS:2014>IEC 61850-7-4:2003
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	REx615 MICS:2014>IEC 61850-7-4:2003
RcdRs	ABBIED600_Rev2_SPC_control_e	RESVMMXU1 demands	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.85 LN: RVAVMMXU1 Name: MMXU (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
PhV	ABBIED600_Rev3_WYE_res_simpler_i	Residual voltage		
ClcMth	AB-BIED600_Rev2_ENG_SP_ClcMth	Calculation method of statistical data objects	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClcMod	AB-BIED600_Rev1_ENG_SP_ClcMod	Calculation mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClcSrc	ABBIED600_Rev2_ORG_SP_1	Object reference to source logical node		

6.2.86 LN: RVMAMMXU1 Name: MMXU (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
PhV	ABBIED600_Rev3_WYE_res_simpler_i	Residual voltage		
ClcMth	AB-BIED600_Rev2_ENG_SP_ClcMth	Calculation method of statistical data objects	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClcMod	AB-BIED600_Rev1_ENG_SP_ClcMod	Calculation mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClcSrc	ABBIED600_Rev2_ORG_SP_1	Object reference to source logical node		

6.2.87 LN: RVMIMMXU1 Name: MMXU (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
PhV	ABBIED600_Rev3_WYE_res_simpler_i	Residual voltage		
ClcMth	AB-BIED600_Rev2_ENG_SP_ClcMth	Calculation method of statistical data objects	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClcMod	AB-BIED600_Rev1_ENG_SP_ClcMod	Calculation mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClcSrc	ABBIED600_Rev2_ORG_SP_1	Object reference to source logical node		

6.2.88 LN: VMMXU2 Name: MMXU (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
PPV	AB-BIED600_Rev3_DEL_threephase_full_i	Phase to phase voltages		
PhV	ABBIED600_Rev3_WYE_4	Phase to ground voltages		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
VMeas-Mod	ABBIED600_Rev2_ENG_SP_Meas-Mod_e	Selects used measurement mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
NumPh	AB-BIED600_Rev2_ENG_SP_StrPhSel_e	Num of phases	E	REx615 MICS:2014>IEC 61850-7-4:2003
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	REx615 MICS:2014>IEC 61850-7-4:2003
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	REx615 MICS:2014>IEC 61850-7-4:2003
LoWrn	ABBIED600_Rev1_SPS_e	Low warning	E	REx615 MICS:2014>IEC 61850-7-4:2003
LoAlm	ABBIED600_Rev1_SPS_e	Low alarm	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.89 LN: VAVMMXU2 Name: MMXU (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
PPV	ABBIED600_Rev3_DEL_5_simpler	Phase to phase voltage		
PhV	ABBIED600_Rev3_WYE_threephase_simpler_i	Phase to earth voltage		
ClcMth	ABBIED600_Rev2_ENG_SP_ClcMth	Calculation method	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClcMod	ABBIED600_Rev1_ENG_SP_ClcMod	Calculation mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClcSrc	ABBIED600_Rev2_ORG_SP_1	Calculation start		

6.2.90 LN: FRPTRC4 Name: PTRE (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
Op	ABBIED600_Rev1_ACT_simple	Operate		
Str	ABBIED600_Rev1_ACD_simple	Start		
TestPro	ABBIED600_Rev1_ENC_TestPro_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
OpMod-ProHz	ABBIED600_Rev2_ENG_SG_OpModProHz_e	Operation mode	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.91 LN: PHIZ1 Name: PHIZ (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	PHIZ1		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
Pos	ABBIED600_Rev4_DPC_simple	Position		status-only
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
SysTyp	ABBIED600_Rev2_ENG_SP_PHIZ-Mod_e	System Type	E	REx615 MICS:2014>IEC 61850-7-4:2003
SecLev	ABBIED600_Rev1_ING_SG_e	Security Level	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.92 LN: EFHPTOC2 Name: PTOC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
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		
OpDITmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
TypRsCrv	AB-BIED600_Rev3_ENG_SG_TypRsCrv	Type of Reset Curve		
RsDITmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
AMeasMod	ABBIED600_Rev2_ENG_SP_Meas-Mod_e	Measurement mode selection	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrValMult	ABBIED600_Rev3_ASG_SG_i_e	Multiplier for operate current level	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
InEnaMult	ABBIED600_Rev1_SPS_e	Enable current multiplier	E	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
AResSigSel	AB-BIED600_Rev2_ENG_SP_AResSig-Sel_e	Selection for used lo signal	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.93 LN: LSHDPTRC1 Name: PTRC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only

Op	ABBIED600_Rev1_ACT_simple	Operate		
Str	ABBIED600_Rev1_ACD_simple	Start		
OpDITmms	ABBIED600_Rev1_ING_SG	Time delay to restore		
RsDITmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
LodShdMod	ABBIED600_Rev2_ENG_SG_Op-ModProHz_e	Operation mode	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.94 LN: LSHDPTRC2 Name: PTRC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Operate		
Str	ABBIED600_Rev1_ACD_simple	Start		
OpDITmms	ABBIED600_Rev1_ING_SG	Time delay to restore		
RsDITmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
LodShdMod	ABBIED600_Rev2_ENG_SG_Op-ModProHz_e	Operation mode	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.95 LN: LSHDPTRC3 Name: PTRC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security

Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Operate		
Str	ABBIED600_Rev1_ACD_simple	Start		
OpDITmms	ABBIED600_Rev1_ING_SG	Time delay to restore		
RsDITmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
LodShdMod	ABBIED600_Rev2_ENG_SG_Op-ModProHz_e	Operation mode	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.96 LN: LSHDPTRC4 Name: PTRC (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Operate		
Str	ABBIED600_Rev1_ACD_simple	Start		
OpDITmms	ABBIED600_Rev1_ING_SG	Time delay to restore		
RsDITmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
LodShdMod	ABBIED600_Rev2_ENG_SG_Op-ModProHz_e	Operation mode	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.97 LN: LSHDPTRC5 Name: PTRC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Op	ABBIED600_Rev1_ACT_simple	Operate		
Str	ABBIED600_Rev1_ACD_simple	Start		
OpDITmms	ABBIED600_Rev1_ING_SG	Time delay to restore		
RsDITmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
LodShdMod	ABBIED600_Rev2_ENG_SG_Op-ModProHz_e	Operation mode	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.98 LN: FRPTRC5 Name: PTRC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
Op	ABBIED600_Rev1_ACT_simple	Operate		
Str	ABBIED600_Rev1_ACD_simple	Start		
TestPro	ABBIED600_Rev1_ENC_TestPro_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
OpMod-ProHz	ABBIED600_Rev2_ENG_SG_Op-ModProHz_e	Operation mode	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.99 LN: FRPTRC6 Name: PTRE (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
Op	ABBIED600_Rev1_ACT_simple	Operate		
Str	ABBIED600_Rev1_ACD_simple	Start		
TestPro	ABBIED600_Rev1_ENC_TestPro_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
OpMod-ProHz	ABBIED600_Rev2_ENG_SG_OpModProHz_e	Operation mode	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.100 LN: RESVMMXU2 Name: MMXU (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
PhV	ABBIED600_Rev3_WYE_res_full_i	Residual voltage		
VMeas-Mod	ABBIED600_Rev2_ENG_SP_MeasMod_e	Selects used measurement mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	REx615 MICS:2014>IEC 61850-7-4:2003
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	REx615 MICS:2014>IEC 61850-7-4:2003
RcdRs	ABBIED600_Rev2_SPC_control_e	RESVMMXU2 demands	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.101 LN: RVAVMMXU2 Name: MMXU (ED1)

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

Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
PhV	ABBIED600_Rev3_WYE_res_simpler_i	Residual voltage		
ClcMth	AB-BIED600_Rev2_ENG_SP_ClcMth	Calculation method of statistical data objects	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClcMod	AB-BIED600_Rev1_ENG_SP_ClcMod	Calculation mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClcSrc	ABBIED600_Rev2_ORG_SP_1	Object reference to source logical node		

6.2.102 LN: RVMAMMXU2 Name: MMXU (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
PhV	ABBIED600_Rev3_WYE_res_simpler_i	Residual voltage		
ClcMth	AB-BIED600_Rev2_ENG_SP_ClcMth	Calculation method of statistical data objects	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClcMod	AB-BIED600_Rev1_ENG_SP_ClcMod	Calculation mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClcSrc	ABBIED600_Rev2_ORG_SP_1	Object reference to source logical node		

6.2.103 LN: RVMIMMXU2 Name: MMXU (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
PhV	ABBIED600_Rev3_WYE_res_simpler_i	Residual voltage		
ClcMth	AB-BIED600_Rev2_ENG_SP_ClcMth	Calculation method of statistical data objects	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClcMod	AB-BIED600_Rev1_ENG_SP_ClcMod	Calculation mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClcSrc	ABBIED600_Rev2_ORG_SP_1	Object reference to source logical node		

6.2.104 LN: RESTVTR2 Name: TVTR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Mode		
Health	ABBIED600_Rev4_ENS_health	Mode		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
VolSv	ABBIED600_Rev1_SAV_92_lite	Voltage (sampled value)		
VRtg	AB-BIED600_Rev3_ASG_SP_ARtg_VRtg	Rated primary voltage		
Cor	ABBIED600_Rev1_ASG_SP_f	Voltage phasor magnitude correction of external voltage transformer		
AngCor	ABBIED600_Rev3_ASG_SP_i	Residual Voltage phasor angle correction of an external voltage transformer		
Alm	ABBIED600_Rev1_SPS	Alarm		
Wrn	ABBIED600_Rev1_SPS	Warning		
VRtgScy	ABBIED600_Rev1_ASG_SP_f_e	Rated secondary voltage	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.105 LN: DPHHPTOC2 Name: PTOC (ED1)

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		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
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		
OpDIT-mms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
TypRsCrv	AB-BIED600_Rev3_ENG_SG_TypRsCrv	Selection of reset curve type		
RsDIT-mms	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	REx615 MICS:2014>IEC 61850-7-4:2003

NumPh	AB-BIED600_Rev2_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrValMult	ABBIED600_Rev3_ASG_SG_i_e	Multiplier for scaling the start value	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
AMeas-Mod	ABBIED600_Rev2_ENG_SP_Meas-Mod_e	Selects used measurement mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
TestPro	ABBIED600_Rev1_ENC_TestPro_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
AllwNon-Dir	ABBIED600_Rev1_SPG_SP_e	Allows prot activation as non-dir when dir info is invalid	E	REx615 MICS:2014>IEC 61850-7-4:2003
NonDir	ABBIED600_Rev1_SPS_e	Forces protection to non-directional	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.106 LN: DEFLPTOC3 Name: PTOC (ED1)

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		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
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		
MinOp-Tmms	ABBIED600_Rev1_ING_SP_1	Minimum Operate Time		
OpDITmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
TypRsCrv	AB-BIED600_Rev3_ENG_SG_TypRsCrv	Selection of reset curve type		
RsDITmms	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	REx615 MICS:2014>IEC 61850-7-4:2003

StrValMult	ABBIED600_Rev3_ASG_SG_i_e	Multiplier for scaling the start value	E	REx615 MICS:2014>IEC 61850-7-4:2003
AllwNonDir	ABBIED600_Rev1_SPG_SP_e	Allows prot activation as non-dir when dir info is invalid	E	REx615 MICS:2014>IEC 61850-7-4:2003
AMeasMod	ABBIED600_Rev2_ENG_SP_Meas-Mod_e	Selects used measurement mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
InEnaMult	ABBIED600_Rev1_SPS_e	Enables current multiplier	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
EnaVLim	ABBIED600_Rev1_SPG_SG_e	Enable voltage limit	E	REx615 MICS:2014>IEC 61850-7-4:2003
TestPro	ABBIED600_Rev1_ENC_TestPro_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
AResSigSel	AB-BIED600_Rev2_ENG_SP_AResSig-Sel_e	Selection for used lo signal	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.107 LN: WPSDE1 Name: PSDE (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
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		
OpDTmms	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	REx615 MICS:2014>IEC 61850-7-4:2003
TmACrv	AB-BIED600_Rev2_CURVE_SG_setCharacter_e	Operating curve type	E	REx615 MICS:2014>IEC 61850-7-4:2003

TmMult	ABBIED600_Rev3_ASG_SG_i_e	Time multiplier	E	REx615 MICS:2014>IEC 61850-7-4:2003
RsDITmms	ABBIED600_Rev1_ING_SP_1_e	Reset delay time	E	REx615 MICS:2014>IEC 61850-7-4:2003
RefW	ABBIED600_Rev3_ASG_SG_i_e	Reference power	E	REx615 MICS:2014>IEC 61850-7-4:2003
AMeasMod	ABBIED600_Rev2_ENG_SP_Meas-Mod_e	Measurement mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
TestPro	ABBIED600_Rev1_ENC_TestPro_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
AResSigSel	ABBIED600_Rev2_ENG_SP_AResSig-Sel_e	Selection for used lo signal	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.108 LN: HAEFPTOC1 Name: PTOC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
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_SG	Minimum Operate Time		
OpDITmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
TypRsCrv	AB-BIED600_Rev3_ENG_SG_TypRsCrv	Type of Reset Curve		
RsDITmms	ABBIED600_Rev1_ING_SP	Reset Delay Time		
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003

TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
EnaRef	ABBIED600_Rev1_SPG_SG_e	Enable reference	E	REx615 MICS:2014>IEC 61850-7-4:2003
HRmsARef	ABBIED600_Rev3_WYE_res_simple_i_e	Reference current from other IEDs	E	REx615 MICS:2014>IEC 61850-7-4:2003
BlkARef	ABBIED600_Rev1_SPS_e	Current comparison status indicator	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.109 LN: PHPTUC1 Name: PTUC (ED1)

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		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
Str	AB-BIED600_Rev1_ACD_threephase	Start		
Op	AB-BIED600_Rev1_ACT_threephase	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i	Current setting/Start value high		
OpDITmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDITmms	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	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
OpModPh	ABBIED600_Rev2_ENG_SP_Op-ModPh_e	Operation mode	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.110 LN: DARREC1 Name: RREC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
OpCntRs	ABBIED600_Rev1_INC_simple_int_e	Resetable operation counter (all shots)		status-only
RecCyc	ABBIED600_Rev1_INS	Actual reclose cycle (number between 1 and UseCyc)		
OpClIs	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	ABBIED600_Rev1_ACT_threephase_e	Operate (open command to XCBR)		
BlkRec	ABBIED600_Rev2_SPC_control_e	Block reclose		status-only,direct-with-normal-security
RecCnt1	ABBIED600_Rev1_INS_e	Operation counter (1st shot)	E	REx615 MICS:2014>IEC 61850-7-4:2003
RecCnt2	ABBIED600_Rev1_INS_e	Operation counter (2nd shot)	E	REx615 MICS:2014>IEC 61850-7-4:2003

RecCnt3	ABBIED600_Rev1_INS_e	Operation counter (3rd shot)	E	REx615 MICS:2014>IEC 61850-7-4:2003
RecCnt4	ABBIED600_Rev1_INS_e	Operation counter (4th shot)	E	REx615 MICS:2014>IEC 61850-7-4:2003
RecCnt5	ABBIED600_Rev1_INS_e	Operation counter (5th shot)	E	REx615 MICS:2014>IEC 61850-7-4:2003
AutoInI	ABBIED600_Rev1_ING_SP_1_e	Auto init	E	REx615 MICS:2014>IEC 61850-7-4:2003
RecOp	ABBIED600_Rev2_ENG_SP_recOp_e	Reclosing operation	E	REx615 MICS:2014>IEC 61850-7-4:2003
ManClsMod	ABBIED600_Rev1_SPG_SP_e	Manual close mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
WtClsTmms	ABBIED600_Rev1_ING_SP_e	Wait close time	E	REx615 MICS:2014>IEC 61850-7-4:2003
MaxWtTmms	ABBIED600_Rev1_ING_SP_e	Max wait time	E	REx615 MICS:2014>IEC 61850-7-4:2003
Max-BlkTmms	ABBIED600_Rev1_ING_SP_e	Max Thm block time	E	REx615 MICS:2014>IEC 61850-7-4:2003
CutOutT-mms	ABBIED600_Rev1_ING_SP_e	Cut-out time	E	REx615 MICS:2014>IEC 61850-7-4:2003
DsrTmms1	ABBIED600_Rev1_ING_SP_e	Dsr time shot 1	E	REx615 MICS:2014>IEC 61850-7-4:2003
DsrTmms2	ABBIED600_Rev1_ING_SP_e	Dsr time shot 2	E	REx615 MICS:2014>IEC 61850-7-4:2003
DsrTmms3	ABBIED600_Rev1_ING_SP_e	Dsr time shot 3	E	REx615 MICS:2014>IEC 61850-7-4:2003
DsrTmms4	ABBIED600_Rev1_ING_SP_e	Dsr time shot 4	E	REx615 MICS:2014>IEC 61850-7-4:2003
TermPrio	ABBIED600_Rev2_ENG_SP_term-Prio_e	Terminal priority	E	REx615 MICS:2014>IEC 61850-7-4:2003
SynSet	ABBIED600_Rev1_ING_SP_1_e	Synchronisation set	E	REx615 MICS:2014>IEC 61850-7-4:2003
AutoWtT-mms	ABBIED600_Rev1_ING_SP_e	Auto wait time	E	REx615 MICS:2014>IEC 61850-7-4:2003
AutoLORs	ABBIED600_Rev1_SPG_SP_e	Auto lockout reset	E	REx615 MICS:2014>IEC 61850-7-4:2003
ProCrdLim	ABBIED600_Rev1_ING_SP_1_e	Protection crd limit	E	REx615 MICS:2014>IEC 61850-7-4:2003
ProCrdMod	ABBIED600_Rev2_ENG_SP_proCrd-Mod_e	Protection crd mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
AutoInICond	ABBIED600_Rev2_ENG_SP_autoInICond_e	Auto initiation cond	E	REx615 MICS:2014>IEC 61850-7-4:2003
TrLin	ABBIED600_Rev1_ING_SP_1_e	Tripping line	E	REx615 MICS:2014>IEC 61850-7-4:2003
CtlLin	ABBIED600_Rev1_ING_SP_1_e	Control line	E	REx615 MICS:2014>IEC 61850-7-4:2003
EnaShotJmp	ABBIED600_Rev1_SPG_SP_e	Enable shot jump	E	REx615 MICS:2014>IEC 61850-7-4:2003

CBCIsPosSt	ABBIED600_Rev1_SPG_SP_e	CB closed Pos status	E	REx615 MICS:2014>IEC 61850-7-4:2003
Ena4DISOF	ABBIED600_Rev1_SPG_SP_e	Fourth delay in SOTF	E	REx615 MICS:2014>IEC 61850-7-4:2003
IniSigCBB1	ABBIED600_Rev1_ING_SP_1_e	Init signals CBB1	E	REx615 MICS:2014>IEC 61850-7-4:2003
IniSigCBB2	ABBIED600_Rev1_ING_SP_1_e	Init signals CBB2	E	REx615 MICS:2014>IEC 61850-7-4:2003
IniSigCBB3	ABBIED600_Rev1_ING_SP_1_e	Init signals CBB3	E	REx615 MICS:2014>IEC 61850-7-4:2003
IniSigCBB4	ABBIED600_Rev1_ING_SP_1_e	Init signals CBB4	E	REx615 MICS:2014>IEC 61850-7-4:2003
IniSigCBB5	ABBIED600_Rev1_ING_SP_1_e	Init signals CBB5	E	REx615 MICS:2014>IEC 61850-7-4:2003
IniSigCBB6	ABBIED600_Rev1_ING_SP_1_e	Init signals CBB6	E	REx615 MICS:2014>IEC 61850-7-4:2003
IniSigCBB7	ABBIED600_Rev1_ING_SP_1_e	Init signals CBB7	E	REx615 MICS:2014>IEC 61850-7-4:2003
BlkSigCBB1	ABBIED600_Rev1_ING_SP_1_e	Blk signals CBB1	E	REx615 MICS:2014>IEC 61850-7-4:2003
BlkSigCBB2	ABBIED600_Rev1_ING_SP_1_e	Blk signals CBB2	E	REx615 MICS:2014>IEC 61850-7-4:2003
BlkSigCBB3	ABBIED600_Rev1_ING_SP_1_e	Blk signals CBB3	E	REx615 MICS:2014>IEC 61850-7-4:2003
BlkSigCBB4	ABBIED600_Rev1_ING_SP_1_e	Blk signals CBB4	E	REx615 MICS:2014>IEC 61850-7-4:2003
BlkSigCBB5	ABBIED600_Rev1_ING_SP_1_e	Blk signals CBB5	E	REx615 MICS:2014>IEC 61850-7-4:2003
BlkSigCBB6	ABBIED600_Rev1_ING_SP_1_e	Blk signals CBB6	E	REx615 MICS:2014>IEC 61850-7-4:2003
BlkSigCBB7	ABBIED600_Rev1_ING_SP_1_e	Blk signals CBB7	E	REx615 MICS:2014>IEC 61850-7-4:2003
ShotNum1	ABBIED600_Rev1_ING_SP_1_e	Shot number CBB1	E	REx615 MICS:2014>IEC 61850-7-4:2003
ShotNum2	ABBIED600_Rev1_ING_SP_1_e	Shot number CBB2	E	REx615 MICS:2014>IEC 61850-7-4:2003
ShotNum3	ABBIED600_Rev1_ING_SP_1_e	Shot number CBB3	E	REx615 MICS:2014>IEC 61850-7-4:2003
ShotNum4	ABBIED600_Rev1_ING_SP_1_e	Shot number CBB4	E	REx615 MICS:2014>IEC 61850-7-4:2003
ShotNum5	ABBIED600_Rev1_ING_SP_1_e	Shot number CBB5	E	REx615 MICS:2014>IEC 61850-7-4:2003
ShotNum6	ABBIED600_Rev1_ING_SP_1_e	Shot number CBB6	E	REx615 MICS:2014>IEC 61850-7-4:2003
ShotNum7	ABBIED600_Rev1_ING_SP_1_e	Shot number CBB7	E	REx615 MICS:2014>IEC 61850-7-4:2003
Str2Tmms1	ABBIED600_Rev1_ING_SP_e	Str 2 delay shot 1	E	REx615 MICS:2014>IEC 61850-7-4:2003

Str2Tmms2	ABBIED600_Rev1_ING_SP_e	Str 2 delay shot 2	E	REx615 MICS:2014>IEC 61850-7-4:2003
Str2Tmms3	ABBIED600_Rev1_ING_SP_e	Str 2 delay shot 3	E	REx615 MICS:2014>IEC 61850-7-4:2003
Str2Tmms4	ABBIED600_Rev1_ING_SP_e	Str 2 delay shot 4	E	REx615 MICS:2014>IEC 61850-7-4:2003
Str3Tmms1	ABBIED600_Rev1_ING_SP_e	Str 3 delay shot 1	E	REx615 MICS:2014>IEC 61850-7-4:2003
Str3Tmms2	ABBIED600_Rev1_ING_SP_e	Str 3 delay shot 2	E	REx615 MICS:2014>IEC 61850-7-4:2003
Str3Tmms3	ABBIED600_Rev1_ING_SP_e	Str 3 delay shot 3	E	REx615 MICS:2014>IEC 61850-7-4:2003
Str3Tmms4	ABBIED600_Rev1_ING_SP_e	Str 3 delay shot 4	E	REx615 MICS:2014>IEC 61850-7-4:2003
Str4Tmms1	ABBIED600_Rev1_ING_SP_e	Str 4 delay shot 1	E	REx615 MICS:2014>IEC 61850-7-4:2003
Str4Tmms2	ABBIED600_Rev1_ING_SP_e	Str 4 delay shot 2	E	REx615 MICS:2014>IEC 61850-7-4:2003
Str4Tmms3	ABBIED600_Rev1_ING_SP_e	Str 4 delay shot 3	E	REx615 MICS:2014>IEC 61850-7-4:2003
Str4Tmms4	ABBIED600_Rev1_ING_SP_e	Str 4 delay shot 4	E	REx615 MICS:2014>IEC 61850-7-4:2003
FrqCntLim	ABBIED600_Rev1_ING_SP_1_e	Frq Op counter limit	E	REx615 MICS:2014>IEC 61850-7-4:2003
FrqCntTmm	ABBIED600_Rev1_ING_SP_1_e	Frq Op counter time	E	REx615 MICS:2014>IEC 61850-7-4:2003
FrqRcvTmm	ABBIED600_Rev1_ING_SP_1_e	Frq Op recovery time	E	REx615 MICS:2014>IEC 61850-7-4:2003
PlsTmms	ABBIED600_Rev1_ING_SP_e	Close pulse time		
MaxTrTmms	ABBIED600_Rev1_ING_SP_e	Max trip time	E	REx615 MICS:2014>IEC 61850-7-4:2003
InInhRec	ABBIED600_Rev1_SPS_e	Inhibit reclose (status)	E	REx615 MICS:2014>IEC 61850-7-4:2003
InBlkThm	ABBIED600_Rev1_SPS_e	Thermal block (status)	E	REx615 MICS:2014>IEC 61850-7-4:2003
LO	ABBIED600_Rev1_SPS_e	Lockout status	E	REx615 MICS:2014>IEC 61850-7-4:2003
RdyRec	ABBIED600_Rev1_SPS_e	Ready reclose status	E	REx615 MICS:2014>IEC 61850-7-4:2003
ActRec	ABBIED600_Rev1_SPS_e	Active reclose status	E	REx615 MICS:2014>IEC 61850-7-4:2003
SucRec	ABBIED600_Rev1_SPS_e	Successful re-close status	E	REx615 MICS:2014>IEC 61850-7-4:2003
UnsRec	ABBIED600_Rev1_SPS_e	Unsuccessful re-close status	E	REx615 MICS:2014>IEC 61850-7-4:2003
PrgRec	ABBIED600_Rev1_SPS_e	In progress status	E	REx615 MICS:2014>IEC 61850-7-4:2003
UnsCBCIs	ABBIED600_Rev1_SPS_e	Unsuccessful CB closing status	E	REx615 MICS:2014>IEC 61850-7-4:2003

WtMstr	ABBIED600_Rev1_SPS_e	Master signal to follower	E	REx615 MICS:2014>IEC 61850-7-4:2003
PrgRec1	ABBIED600_Rev1_SPS_e	In progress 1st re-close	E	REx615 MICS:2014>IEC 61850-7-4:2003
PrgRec2	ABBIED600_Rev1_SPS_e	In progress 2nd reclose	E	REx615 MICS:2014>IEC 61850-7-4:2003
PrgRec3	ABBIED600_Rev1_SPS_e	In progress 3rd reclose	E	REx615 MICS:2014>IEC 61850-7-4:2003
PrgRec4	ABBIED600_Rev1_SPS_e	In progress 4th re-close	E	REx615 MICS:2014>IEC 61850-7-4:2003
PrgRec5	ABBIED600_Rev1_SPS_e	In progress 5th re-close	E	REx615 MICS:2014>IEC 61850-7-4:2003
PrgDsr	ABBIED600_Rev1_SPS_e	Discrimination time in progress	E	REx615 MICS:2014>IEC 61850-7-4:2003
PrgCutOut	ABBIED600_Rev1_SPS_e	Cutout time in progress	E	REx615 MICS:2014>IEC 61850-7-4:2003
FrqOpCnt	ABBIED600_Rev1_INS_e	Frequent operation counter	E	REx615 MICS:2014>IEC 61850-7-4:2003
FrqOpAlm	ABBIED600_Rev1_SPS_e	Frequent operation counter alarm	E	REx615 MICS:2014>IEC 61850-7-4:2003
RecRs	ABBIED600_Rev2_SPC_control_e	DARREC1 reset	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
CntRs	ABBIED600_Rev2_SPC_control_e	DARREC1 counters	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
DsaCnt	ABBIED600_Rev2_SPC_control_e	Signal for counter disabling	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
RclTmStr	ABBIED600_Rev1_SPS_e	Reclaim time started	E	REx615 MICS:2014>IEC 61850-7-4:2003
ProCrd	ABBIED600_Rev1_SPS_e	Protection coordination	E	REx615 MICS:2014>IEC 61850-7-4:2003
CBManClis	ABBIED600_Rev1_SPS_e	CB manually closed	E	REx615 MICS:2014>IEC 61850-7-4:2003
AutoRecOn	ABBIED600_Rev1_SPS_e	AR switched On	E	REx615 MICS:2014>IEC 61850-7-4:2003
ShotPntr	ABBIED600_Rev1_INS_e	Shot pointer value	E	REx615 MICS:2014>IEC 61850-7-4:2003
InRecOn	ABBIED600_Rev1_SPS_e	AR on/off control signal status	E	REx615 MICS:2014>IEC 61850-7-4:2003
InBlkRclTm	ABBIED600_Rev1_SPS_e	Block reclaim time	E	REx615 MICS:2014>IEC 61850-7-4:2003
InCBPos	ABBIED600_Rev1_SPS_e	CB position input	E	REx615 MICS:2014>IEC 61850-7-4:2003
InCBRdy	ABBIED600_Rev1_SPS_e	CB ready for re-closing	E	REx615 MICS:2014>IEC 61850-7-4:2003

InSynChk	ABBIED600_Rev1_SPS_e	Synchro check fulfilled	E	REx615 MICS:2014>IEC 61850-7-4:2003
InIncrPntr	ABBIED600_Rev1_SPS_e	Shot pointer increment by one	E	REx615 MICS:2014>IEC 61850-7-4:2003
InIni1	ABBIED600_Rev1_SPS_e	No 1 operate signal	E	REx615 MICS:2014>IEC 61850-7-4:2003
InIni2	ABBIED600_Rev1_SPS_e	No 2 operate signal	E	REx615 MICS:2014>IEC 61850-7-4:2003
InIni3	ABBIED600_Rev1_SPS_e	No 3 operate signal	E	REx615 MICS:2014>IEC 61850-7-4:2003
InIni4	ABBIED600_Rev1_SPS_e	No 4 operate signal	E	REx615 MICS:2014>IEC 61850-7-4:2003
InIni5	ABBIED600_Rev1_SPS_e	No 5 operate signal	E	REx615 MICS:2014>IEC 61850-7-4:2003
InIni6	ABBIED600_Rev1_SPS_e	No 6 operate signal	E	REx615 MICS:2014>IEC 61850-7-4:2003
InDlIni2	ABBIED600_Rev1_SPS_e	No 2 start signal	E	REx615 MICS:2014>IEC 61850-7-4:2003
InDlIni3	ABBIED600_Rev1_SPS_e	No 3 start signal	E	REx615 MICS:2014>IEC 61850-7-4:2003
InDlIni4	ABBIED600_Rev1_SPS_e	No 4 start signal	E	REx615 MICS:2014>IEC 61850-7-4:2003
RclTmEla	ABBIED600_Rev1_SPS_e	Reclaim time elapsed	E	REx615 MICS:2014>IEC 61850-7-4:2003
InBlkRecTm	ABBIED600_Rev1_SPS_e	Blocks and resets dead time	E	REx615 MICS:2014>IEC 61850-7-4:2003
SOF	ABBIED600_Rev1_SPS_e	Switch on the fault	E	REx615 MICS:2014>IEC 61850-7-4:2003
TestCtl	ABBIED600_Rev1_ENC_TestCtl_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.111 LN: CMHAI1 Name: MHAI (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
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	REx615 MICS:2014>IEC 61850-7-4:2003
RcdRs	ABBIED600_Rev2_SPC_control_e	CMHAI1 max.demands	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
Dmdltrv	ABBIED600_Rev2_ENG_SP_dmdltrv_e	Time interval for demand calculation	E	REx615 MICS:2014>IEC 61850-7-4:2003
DmdTddA	ABBIED600_Rev3_WYE_threephase_simple_i_e	Current Total Demand Distortion	E	REx615 MICS:2014>IEC 61850-7-4:2003
MaxDmdTddA	ABBIED600_Rev3_WYE_threephase_simple_i_e	Maximum current total demand distortion	E	REx615 MICS:2014>IEC 61850-7-4:2003
DmdWinMod	ABBIED600_Rev2_ENG_SP_DmdWinMod_e	Demand calculation window	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.112 LN: VMHAI1 Name: MHAI (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
Hz	ABBIED600_Rev3_MV_simple_i	Fundamental frequency		
ThdPhV	ABBIED600_Rev3_WYE_threephase_simple_i	Voltage Total Harmonic Distortion per IEEE 519		
ThdVVal	ABBIED600_Rev3_ASG_SP_i	ThdPhV / ThdPPV alarm Setting – value entered in %		
Alm	ABBIED600_Rev1_SPS	Alarm		
RcdRs	ABBIED600_Rev2_SPC_control_e	CMHAI1 max.demands	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security

Dmdltrv	ABBIED600_Rev2_ENG_SP_dmdltrv_e	Time interval for demand calculation	E	REx615 MICS:2014>IEC 61850-7-4:2003
DmdThdPhV	ABBIED600_Rev3_WYE_threephase_simple_i_e	Voltage Total Harmonic Distortion	E	REx615 MICS:2014>IEC 61850-7-4:2003
MaxDmdThdV	ABBIED600_Rev3_WYE_threephase_simple_i_e	Maximum voltage total harmonic distortion	E	REx615 MICS:2014>IEC 61850-7-4:2003
DmdWinMod	AB-BIED600_Rev2_ENG_SP_DmdWinMod_e	Demand calculation window	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.113 LN: PH2QVVR1 Name: QVVR (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	AB-BIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
VarStr	ABBIED600_Rev1_SPS	Start Phase B (Voltage Variation Event in progress)	E	REx615 MICS:2014>IEC 61850-7-4:2003
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	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.114 LN: PH3QVVR1 Name: QVVR (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	AB-BIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
VarStr	ABBIED600_Rev1_SPS	Start Phase C (Voltage Variation Event in progress)	E	REx615 MICS:2014>IEC 61850-7-4:2003
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	REx615 MICS:2014>IEC 61850-7-4:2003
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6.2.115 LN: LOFLPTUC2 Name: PTUC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i	Current setting/Start value high		
OpDITmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDITmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
BlkValA	ABBIED600_Rev3_ASG_SG_i_e	Current setting/Start value low	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	AB-BIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.116 LN: MPTRC1 Name: PTRC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
Op	ABBIED600_Rev1_ACT_threephase	Operate		

6.2.117 LN: CMMXU2 Name: MMXU (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
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Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
A	AB-BIED600_Rev3_WYE_threephase_full_i	Phase currents		
AMeas-Mod	ABBIED600_Rev2_ENG_SP_Meas-Mod_e	Selects used measurement mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
NumPh	AB-BIED600_Rev2_ENG_SP_StrPhSel_e	Number of phases required by limit supervision	E	REx615 MICS:2014>IEC 61850-7-4:2003
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	REx615 MICS:2014>IEC 61850-7-4:2003
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	REx615 MICS:2014>IEC 61850-7-4:2003
LoWrn	ABBIED600_Rev1_SPS_e	Low warning	E	REx615 MICS:2014>IEC 61850-7-4:2003
LoAlm	ABBIED600_Rev1_SPS_e	Low alarm	E	REx615 MICS:2014>IEC 61850-7-4:2003
RcdRs	ABBIED600_Rev2_SPC_control_e	CMMXU2 demands	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.118 LN: CAVMMXU2 Name: MMXU (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
A	AB-BIED600_Rev3_WYE_threephase_simple_i	Phase current		
ClcMth	ABBIED600_Rev2_ENG_SP_ClcMth	Calculation method of statistical data objects	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClcMod	ABBIED600_Rev1_ENG_SP_ClcMod	Calculation mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClcSrc	ABBIED600_Rev2_ORG_SP_1	Object reference to source logical node		

6.2.119 LN: CMAMMXU2 Name: MMXU (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
A	AB-BIED600_Rev3_WYE_threephase_simpler_i	Phase current		
ClcMth	ABBIED600_Rev2_ENG_SP_ClcMth	Calculation method of statistical data objects	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClcMod	ABBIED600_Rev1_ENG_SP_ClcMod	Calculation mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClcSrc	ABBIED600_Rev2_ORG_SP_1	Object reference to source logical node		

6.2.120 LN: CMIMMXU2 Name: MMXU (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
A	AB-BIED600_Rev3_WYE_threephase_simpler_i	Phase current		
ClcMth	ABBIED600_Rev2_ENG_SP_ClcMth	Calculation method of statistical data objects	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClcMod	ABBIED600_Rev1_ENG_SP_ClcMod	Calculation mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClcSrc	ABBIED600_Rev2_ORG_SP_1	Object reference to source logical node		

6.2.121 LN: OEPVPH1 Name: PVPH (ED1)

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		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		

VHzCrv	AB-BIED600_Rev2_CURVE_SG_setCharact	Operation curve type		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
OpDITmms	ABBIED600_Rev1_ING_SG	Operate delay time		
RsDITmms	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 operate time		
StrInh	ABBIED600_Rev1_SPS_e	Restart inhibited		
CIAct	ABBIED600_Rev1_SPS_e	Cooling active signal	E	REx615 MICS:2014>IEC 61850-7-4:2003
VHzRat	ABBIED600_Rev3_MV_simple_i_e	Relative voltage to frequency ratio	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Start duration	E	REx615 MICS:2014>IEC 61850-7-4:2003
MaxVCont	ABBIED600_Rev3_ASG_SP_i_e	Maximum allowed continuous voltage	E	REx615 MICS:2014>IEC 61850-7-4:2003
CITms	ABBIED600_Rev1_ING_SP_1_e	Cooling time in seconds	E	REx615 MICS:2014>IEC 61850-7-4:2003
ConsDIT-mms	ABBIED600_Rev1_ING_SP_e	Constant delay parameter	E	REx615 MICS:2014>IEC 61850-7-4:2003
XLeak	ABBIED600_Rev3_ASG_SP_i_e	Winding leakage reactance	E	REx615 MICS:2014>IEC 61850-7-4:2003
VSel	ABBIED600_Rev3_ENG_SP_VSel_e	Voltage selection	E	REx615 MICS:2014>IEC 61850-7-4:2003
VPhSel	ABBIED600_Rev2_ENG_SP_VPhSel_e	Voltage phase selection	E	REx615 MICS:2014>IEC 61850-7-4:2003
TmsRecEna	ABBIED600_Rev1_INS_e	Estimated time to reset of block restart in seconds	E	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.122 LN: OEPVPH2 Name: PVPH (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only

NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
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		
OpDITmms	ABBIED600_Rev1_ING_SG	Operate delay time		
RsDITmms	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 operate time		
StrInh	ABBIED600_Rev1_SPS_e	Restart inhibited		
CIAct	ABBIED600_Rev1_SPS_e	Cooling active signal	E	REx615 MICS:2014>IEC 61850-7-4:2003
VHzRat	ABBIED600_Rev3_MV_simple_i_e	Relative voltage to frequency ratio	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Start duration	E	REx615 MICS:2014>IEC 61850-7-4:2003
MaxVCont	ABBIED600_Rev3_ASG_SP_i_e	Maximum allowed continuous voltage	E	REx615 MICS:2014>IEC 61850-7-4:2003
CITms	ABBIED600_Rev1_ING_SP_1_e	Cooling time in seconds	E	REx615 MICS:2014>IEC 61850-7-4:2003
ConsDIT-mms	ABBIED600_Rev1_ING_SP_e	Constant delay parameter	E	REx615 MICS:2014>IEC 61850-7-4:2003
XLeak	ABBIED600_Rev3_ASG_SP_i_e	Winding leakage reactance	E	REx615 MICS:2014>IEC 61850-7-4:2003
VSel	ABBIED600_Rev3_ENG_SP_VSel_e	Voltage selection	E	REx615 MICS:2014>IEC 61850-7-4:2003
VPhSel	ABBIED600_Rev2_ENG_SP_VPhSel_e	Voltage phase selection	E	REx615 MICS:2014>IEC 61850-7-4:2003
TmsRecEna	ABBIED600_Rev1_INS_e	Estimated time to reset of block restart in seconds	E	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.123 LN: PHPTUC2 Name: PTUC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
Str	AB-BIED600_Rev1_ACD_threephase	Start		
Op	AB-BIED600_Rev1_ACT_threephase	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i	Current setting/Start value high		
OpDITmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDITmms	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	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
OpModPh	ABBIED600_Rev2_ENG_SP_Op-ModPh_e	Operation mode	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.124 LN: PHLPTOC3 Name: PTOC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
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		
OpDITmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
TypRsCrv	AB-BIED600_Rev3_ENG_SG_TypRsCrv	Type of Reset Curve		
RsDITmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	REx615 MICS:2014>IEC 61850-7-4:2003
NumPh	AB-BIED600_Rev2_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrValMult	ABBIED600_Rev3_ASG_SG_i_e	Multiplier for scaling the start value	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
AMeasMod	ABBIED600_Rev2_ENG_SP_Meas-Mod_e	Measuring mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.125 LN: PHHPTOC3 Name: PTOC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
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		

OpDITmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
TypRsCrv	AB-BIED600_Rev3_ENG_SG_TypRsCrv	Type of Reset Curve		
RsDITmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	REx615 MICS:2014>IEC 61850-7-4:2003
NumPh	AB-BIED600_Rev2_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrValMult	ABBIED600_Rev3_ASG_SG_i_e	Multiplier for scaling the start value	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
AMeasMod	ABBIED600_Rev2_ENG_SP_Meas-Mod_e	Measuring mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.126 LN: NSPTOC3 Name: PTOC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
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		
OpDITmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
TypRsCrv	AB-BIED600_Rev3_ENG_SG_TypRsCrv	Type of Reset Curve		

RsDITmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrValMult	ABBIED600_Rev3_ASG_SG_i_e	Multiplier for scaling the start value	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.127 LN: PHPTUC3 Name: PTUC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i	Current setting/Start value high		
OpDITmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDITmms	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	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
OpModPh	ABBIED600_Rev2_ENG_SP_OpModPh_e	Operation mode	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.128 LN: EFLPTOC3 Name: PTOC (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
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		
OpDITmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
TypRsCrv	AB-BIED600_Rev3_ENG_SG_TypRsCrv	Type of Reset Curve		
RsDITmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
AMeasMod	ABBIED600_Rev2_ENG_SP_Meas-Mod_e	Measurement mode selection	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrValMult	ABBIED600_Rev3_ASG_SG_i_e	Multiplier for operate current level	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
InEnaMult	ABBIED600_Rev1_SPS_e	Enable current multiplier	E	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
AResSigSel	AB-BIED600_Rev2_ENG_SP_AResSig-Sel_e	Selection for used lo signal	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.129 LN: EFHPTOC3 Name: PTOC (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
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		
OpDITmms	ABBIED600_Rev1_ING SG	Operate Delay Time		
TypRsCrv	AB-BIED600_Rev3_ENG SG_TypRsCrv	Type of Reset Curve		
RsDITmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
AMeasMod	ABBIED600_Rev2_ENG_SP_Meas-Mod_e	Measurement mode selection	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrValMult	ABBIED600_Rev3_ASG SG_i_e	Multiplier for operate current level	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
InEnaMult	ABBIED600_Rev1_SPS_e	Enable current multiplier	E	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
AResSigSel	AB-BIED600_Rev2_ENG_SP_AResSig-Sel_e	Selection for used lo signal	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.130 LN: TR3PTRC1 Name: PTRC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003

Op	ABBIED600_Rev1_ACT_threephase	Operate signal		
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6.2.131 LN: ARCSARC11 Name: SARC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Beh		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
FACntRs	ABBIED600_Rev2_INC_control_int	Fault arc counter		status-only,direct-with-normal-security
FADet	ABBIED600_Rev1_SPS	Fault arc detected		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
InRemFA	ABBIED600_Rev1_SPS_e	Remote Fault arc detected	E	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.132 LN: CCBRBRF3 Name: RBRF (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Str	ABBIED600_Rev1_ACD_simple	Delayed CB failure alarm		
OpEx	ABBIED600_Rev1_ACT_simple	Breaker failure trip (external trip)		
OpIn	ABBIED600_Rev1_ACT_simple	Operate, retrip (internal trip)		
FailMod	ABBIED600_Rev2_ENG_SP_FailMod	Breaker Failure Detection Mode (current, breaker status, both, other)		
FailTmms	ABBIED600_Rev1_ING_SP	Breaker Failure Time Delay for bus bar trip		
TPTrTmms	ABBIED600_Rev1_ING_SP	Three Pole Retrip Time Delay		
DetValA	ABBIED600_Rev3_ASG_SP_i	Current Detector Value		
ReTrMod	ABBIED600_Rev2_ENG_SP_ReTrMod	Retrip Mode		

TrPlsTmms	ABBIED600_Rev1_ING_SP_e	Trip pulse time	E	REx615 MICS:2014>IEC 61850-7-4:2003
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
Det-ValARes	ABBIED600_Rev3_ASG_SP_i_e	Current Detector Value for residual current	E	REx615 MICS:2014>IEC 61850-7-4:2003
AMeasMod	ABBIED600_Rev2_ENG_SP_Meas-Mod_e	Measurement mode selection (current): 2= DFT; 3= Peak-to-Peak	E	REx615 MICS:2014>IEC 61850-7-4:2003
CBAlm-Tmms	ABBIED600_Rev1_ING_SP_e	Circuit breaker faulty alarm delay	E	REx615 MICS:2014>IEC 61850-7-4:2003
OpExMod	ABBIED600_Rev2_ENG_SP_buTrip-Mode_e	Select type of backup trip logic	E	REx615 MICS:2014>IEC 61850-7-4:2003
InStr	ABBIED600_Rev1_SPS_e	CBFP start command	E	REx615 MICS:2014>IEC 61850-7-4:2003
InPosCls	ABBIED600_Rev1_SPS_e	CB in closed position	E	REx615 MICS:2014>IEC 61850-7-4:2003
InCBFlt	ABBIED600_Rev1_SPS_e	CB faulty and unable to trip	E	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003, status-only,direct-with-normal-security
StrLtcMod	AB-BIED600_Rev2_ENG_SP_StrLtcMod_e	Start reset delayed or immediately	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.133 LN: SSIMG3 Name: SIMG (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
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	E	REx615 MICS:2014>IEC 61850-7-4:2003
PresBlk	ABBIED600_Rev1_SPS_e	Binary pressure input for lockout indication	E	REx615 MICS:2014>IEC 61850-7-4:2003
InsAlmTmms	AB-BIED600_Rev1_ING_SP_1_e	Time delay for gas pressure alarm.	E	REx615 MICS:2014>IEC 61850-7-4:2003
InsBlkTmms	ABBIED600_Rev1_ING_SP_e	Time delay for gas pressure lockout.	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.134 LN: TCSSCBR3 Name: SCBR (ED1)

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		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
OpDITmms	ABBIED600_Rev1_ING_SP_1_e	Operate Delay Time		
RsDITmms	ABBIED600_Rev1_ING_SP_1_e	Reset Delay Time		
CircAlm	ABBIED600_Rev1_SPS_e	Alarm		
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs		status-only,direct-with-normal-security
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.135 LN: TRPPTRC3 Name: PTRC (ED1)

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		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
Tr	ABBIED600_Rev1_ACT_simple_dU	General trip output signal		
Op	ABBIED600_Rev1_ACT_simple_dU	Operate input signal		
TrPlsTmms	ABBIED600_Rev1_ING_SP_1	Minimum duration of trip output signal		
TrOutMod	ABBIED600_Rev2_ENG_SP_TrOutMod_e	Trip output mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
LORs	ABBIED600_Rev2_SPC_indications_e	RST_LKOUT	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
TrRs	ABBIED600_Rev2_SPC_indications_e	Reset latched trip	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
CIsLO	ABBIED600_Rev1_SPS_e	Circuit breaker lock-out output (set until reset)	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.136 LN: IL1TCTR3 Name: TCTR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Mode		
Health	ABBIED600_Rev4_ENS_health	Mode		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
AmpSv	ABBIED600_Rev1_SAV_92_lite	Current (Sampled value) phase A		
ARtg	AB-BIED600_Rev3_ASG_SP_ARtg_VRtg	Primary rated current		
Cor	ABBIED600_Rev1_ASG_SP_f	Phase A Current phasor magnitude correction of an external current transformer		
AngCor	ABBIED600_Rev3_ASG_SP_i	Phase A Current phasor angle correction of an external current transformer		
Alm	ABBIED600_Rev1_SPS	Alarm		
Wrn	ABBIED600_Rev1_SPS	Warning		
ARtgScy	ABBIED600_Rev2_ENG_SP_ARtgSec_e	Secondary current	E	REx615 MICS:2014>IEC 61850-7-4:2003
ARtgNom	ABBIED600_Rev1_ASG_SP_f_e	Network Nominal Current	E	REx615 MICS:2014>IEC 61850-7-4:2003
VRtgScy-Rat	ABBIED600_Rev1_ASG_SP_f_e	Rated Secondary Value	E	REx615 MICS:2014>IEC 61850-7-4:2003
RevPol	ABBIED600_Rev1_SPG_SP_e	Reverse polarity	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.137 LN: RESTVTR1 Name: TVTR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Mode		
Health	ABBIED600_Rev4_ENS_health	Mode		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
VolSv	ABBIED600_Rev1_SAV_92_lite	Voltage (sampled value)		
VRtg	AB-BIED600_Rev3_ASG_SP_ARtg_VRtg	Rated primary voltage		
Cor	ABBIED600_Rev1_ASG_SP_f	Voltage phasor magnitude correction of external voltage transformer		
AngCor	ABBIED600_Rev3_ASG_SP_i	Residual Voltage phasor angle correction of an external voltage transformer		

Alm	ABBIED600_Rev1_SPS	Alarm		
Wrn	ABBIED600_Rev1_SPS	Warning		
VRtgScy	ABBIED600_Rev1_ASG_SP_f_e	Rated secondary voltage	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.138 LN: UL1TVTR1 Name: TVTR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Mode		
Health	ABBIED600_Rev4_ENS_health	Mode		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
VolSv	ABBIED600_Rev1_SAV_92_lite	Voltage (sampled value) phase A		
FuFail	ABBIED600_Rev1_SPS	TVTR fuse failure		
VRtg	ABBIED600_Rev3_ASG_SP_ARtg_VRtg	Primary rated voltage		
Rat	ABBIED600_Rev1_ASG_SP_f	Division ratio		
Cor	ABBIED600_Rev1_ASG_SP_f	Amplitude corr. A		
AngCor	ABBIED600_Rev3_ASG_SP_i	Angle corr. A		
Alm	ABBIED600_Rev1_SPS	Alarm		
Wrn	ABBIED600_Rev1_SPS	Warning		
VRtgScy	ABBIED600_Rev1_ASG_SP_f_e	Secondary rated voltage	E	REx615 MICS:2014>IEC 61850-7-4:2003
VConnTyp	AB-BIED600_Rev3_ENG_SP_ConnType_e	VT connection	E	REx615 MICS:2014>IEC 61850-7-4:2003
VInTyp	ABBIED600_Rev2_ENG_SP_AnIn-Type_e	Type of the voltage input	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.139 LN: CMMXU3 Name: MMXU (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
A	AB-BIED600_Rev3_WYE_threephase_full_i	Phase currents		
AMeas-Mod	ABBIED600_Rev2_ENG_SP_Meas-Mod_e	Selects used measurement mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
NumPh	AB-BIED600_Rev2_ENG_SP_StrPhSel_e	Number of phases required	E	REx615 MICS:2014>IEC 61850-7-4:2003

		by limit supervision		
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	REx615 MICS:2014>IEC 61850-7-4:2003
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	REx615 MICS:2014>IEC 61850-7-4:2003
LoWrn	ABBIED600_Rev1_SPS_e	Low warning	E	REx615 MICS:2014>IEC 61850-7-4:2003
LoAlm	ABBIED600_Rev1_SPS_e	Low alarm	E	REx615 MICS:2014>IEC 61850-7-4:2003
RcdRs	ABBIED600_Rev2_SPC_control_e	CMMXU3 demands	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.140 LN: CAVMMXU3 Name: MMXU (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
A	AB-BIED600_Rev3_WYE_threephase_simpler_i	Phase current		
ClcMth	ABBIED600_Rev2_ENG_SP_ClcMth	Calculation method of statistical data objects	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClcMod	ABBIED600_Rev1_ENG_SP_ClcMod	Calculation mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClcSrc	ABBIED600_Rev2_ORG_SP_1	Object reference to source logical node		

6.2.141 LN: CMAMMXU3 Name: MMXU (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
A	AB-BIED600_Rev3_WYE_threephase_simpler_i	Phase current		
ClcMth	ABBIED600_Rev2_ENG_SP_ClcMth	Calculation method of statistical data objects	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClcMod	ABBIED600_Rev1_ENG_SP_ClcMod	Calculation mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClcSrc	ABBIED600_Rev2_ORG_SP_1	Object reference to source logical node		

6.2.142 LN: CMIMMXU3 Name: MMXU (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
A	AB-BIED600_Rev3_WYE_threephase_simpler_i	Phase current		
ClcMth	ABBIED600_Rev2_ENG_SP_ClcMth	Calculation method of statistical data objects	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClcMod	ABBIED600_Rev1_ENG_SP_ClcMod	Calculation mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClcSrc	ABBIED600_Rev2_ORG_SP_1	Object reference to source logical node		

6.2.143 LN: IL1TCTR1 Name: TCTR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Mode		
Health	ABBIED600_Rev4_ENS_health	Mode		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
AmpSv	ABBIED600_Rev1_SAV_92_lite	Current (Sampled value) phase A		
ARtg	AB-BIED600_Rev3_ASG_SP_ARtg_VRtg	Primary rated current		
Cor	ABBIED600_Rev1_ASG_SP_f	Phase A Current phasor magnitude correction of an external current transformer		
AngCor	ABBIED600_Rev3_ASG_SP_i	Phase A Current phasor angle correction of an external current transformer		
Alm	ABBIED600_Rev1_SPS	Alarm		
Wrn	ABBIED600_Rev1_SPS	Warning		
ARtgScy	ABBIED600_Rev2_ENG_SP_ARtgSec_e	Secondary rated current	E	REx615 MICS:2014>IEC 61850-7-4:2003
ARtgNom	ABBIED600_Rev1_ASG_SP_f_e	Network Nominal Current	E	REx615 MICS:2014>IEC 61850-7-4:2003
VRtgScyRat	ABBIED600_Rev1_ASG_SP_f_e	Rated Secondary Value	E	REx615 MICS:2014>IEC 61850-7-4:2003

RevPol	ABBIED600_Rev1_SPG_SP_e	Reverse polarity	E	REx615 MICS:2014>IEC 61850-7-4:2003
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6.2.144 LN: RESTCTR1 Name: TCTR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Mode		
Health	ABBIED600_Rev4_ENS_health	Mode		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
AmpSv	ABBIED600_Rev1_SAV_92_lite	Current (Sampled value)		
ARtg	AB-BIED600_Rev3_ASG_SP_ARtg_VRtg	Primary rated current		
Cor	ABBIED600_Rev1_ASG_SP_f	Current phasor magnitude correction of an external current transformer		
AngCor	ABBIED600_Rev3_ASG_SP_i	Residual Current phasor angle correction of an external current transformer		
Alm	ABBIED600_Rev1_SPS	Alarm		
Wrn	ABBIED600_Rev1_SPS	Warning		
ARtgScy	ABBIED600_Rev2_ENG_SP_ARtgSec_e	Secondary rated current	E	REx615 MICS:2014>IEC 61850-7-4:2003
RevPol	ABBIED600_Rev1_SPG_SP_e	Reverse polarity	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.145 LN: XARGGIO130 Name: GGIO (ED1)

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		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
AnIn1	ABBIED600_Rev6_MV_6	Analogue input 1		
AnIn2	ABBIED600_Rev6_MV_6	Analogue input 2		
AnIn3	ABBIED600_Rev6_MV_6	Analogue input 3		
Alm1	ABBIED600_Rev1_SPS	Alarm		
Wrn1	ABBIED600_Rev1_SPS	Warning	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMinVal1	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	REx615 MICS:2014>IEC 61850-7-4:2003

InMinVal2	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMinVal3	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMaxVal1	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMaxVal2	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMaxVal3	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMod1	ABBIED600_Rev2_ENG_SP_SenIn-Mod_e	Input mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMod2	ABBIED600_Rev2_ENG_SP_SenIn-Mod_e	Input mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMod3	ABBIED600_Rev2_ENG_SP_SenIn-Mod_e	Input mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
CardNam	AB-BIED600_Rev7_DPL_eeprom_2_ED2_e	Card information	E	REx615 MICS:2014>IEC 61850-7-4:2003
HwId	ABBIED600_Rev1_LPL_VSS_1_20_e	HW module		
TestStald	ABBIED600_Rev1_LPL_VSS_dU_20_e	Testing		

6.2.146 LN: IL1TCTR2 Name: TCTR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Mode		
Health	ABBIED600_Rev4_ENS_health	Mode		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
AmpSv	ABBIED600_Rev1_SAV_92_lite	Current (Sampled value) phase A		
ARtg	AB-BIED600_Rev3_ASG_SP_ARtg_VRtg	Primary rated current		
Cor	ABBIED600_Rev1_ASG_SP_f	Phase A Current phasor magnitude correction of an external current transformer		
AngCor	ABBIED600_Rev3_ASG_SP_i	Phase A Current phasor angle correction of an external current transformer		
Alm	ABBIED600_Rev1_SPS	Alarm		
Wrn	ABBIED600_Rev1_SPS	Warning		
ARtgScy	ABBIED600_Rev2_ENG_SP_ARtgSec_e	Secondary current	E	REx615 MICS:2014>IEC 61850-7-4:2003
ARtgNom	ABBIED600_Rev1_ASG_SP_f_e	Network Nominal Current	E	REx615 MICS:2014>IEC 61850-7-4:2003

VRtgScy-Rat	ABBIED600_Rev1_ASG_SP_f_e	Rated Secondary Value	E	REx615 MICS:2014>IEC 61850-7-4:2003
RevPol	ABBIED600_Rev1_SPG_SP_e	Reverse polarity	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.147 LN: RESTCTR2 Name: TCTR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Mode		
Health	ABBIED600_Rev4_ENS_health	Mode		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
AmpSv	ABBIED600_Rev1_SAV_92_lite	Current (Sampled value)		
ARtg	AB-BIED600_Rev3_ASG_SP_ARtg_VRtg	Primary rated current		
Cor	ABBIED600_Rev1_ASG_SP_f	Current phasor magnitude correction of an external current transformer		
AngCor	ABBIED600_Rev3_ASG_SP_i	Residual Current phasor angle correction of an external current transformer		
Alm	ABBIED600_Rev1_SPS	Alarm		
Wrn	ABBIED600_Rev1_SPS	Warning		
ARtgScy	ABBIED600_Rev2_ENG_SP_ARtg_Sec_e	Secondary rated current	E	REx615 MICS:2014>IEC 61850-7-4:2003
RevPol	ABBIED600_Rev1_SPG_SP_e	Reverse polarity	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.148 LN: UL1TVTR2 Name: TVTR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Mode		
Health	ABBIED600_Rev4_ENS_health	Mode		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
VolSv	ABBIED600_Rev1_SAV_92_lite	Voltage (sampled value) phase A		
FuFail	ABBIED600_Rev1_SPS	TVTR fuse failure		
VRtg	AB-BIED600_Rev3_ASG_SP_ARtg_VRtg	Primary rated voltage		
Rat	ABBIED600_Rev1_ASG_SP_f	Division ratio		
Cor	ABBIED600_Rev1_ASG_SP_f	Phase A Voltage phasor magnitude correction of		

		an external voltage transformer		
AngCor	ABBIED600_Rev3_ASG_SP_i	Angle corr. A		
Alm	ABBIED600_Rev1_SPS	Alarm		
Wrn	ABBIED600_Rev1_SPS	Warning		
VRtgScy	ABBIED600_Rev1_ASG_SP_f_e	Secondary rated voltage	E	REx615 MICS:2014>IEC 61850-7-4:2003
VConnTyp	AB-BIED600_Rev3_ENG_SP_ConnType_e	VT connection	E	REx615 MICS:2014>IEC 61850-7-4:2003
VInTyp	ABBIED600_Rev2_ENG_SP_AnIn-Type_e	Type of the voltage input	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.149 LN: UL1TVTR3 Name: TVTR (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Mode		
Health	ABBIED600_Rev4_ENS_health	Mode		ED1 only
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		ED1 only
VolSv	ABBIED600_Rev1_SAV_92_lite	Voltage (sampled value) phase A		
FuFail	ABBIED600_Rev1_SPS	TVTR fuse failure		
VRtg	AB-BIED600_Rev3_ASG_SP_ARtg_VRtg	Primary rated voltage		
Rat	ABBIED600_Rev1_ASG_SP_f	Division ratio		
Cor	ABBIED600_Rev1_ASG_SP_f	Phase A Voltage phasor magnitude correction of an external voltage transformer		
AngCor	ABBIED600_Rev3_ASG_SP_i	Angle corr. A		
Alm	ABBIED600_Rev1_SPS	Alarm		
Wrn	ABBIED600_Rev1_SPS	Warning		
VRtgScy	ABBIED600_Rev1_ASG_SP_f_e	Secondary rated voltage	E	REx615 MICS:2014>IEC 61850-7-4:2003
VConnTyp	AB-BIED600_Rev3_ENG_SP_ConnType_e	VT connection	E	REx615 MICS:2014>IEC 61850-7-4:2003
VInTyp	ABBIED600_Rev2_ENG_SP_AnIn-Type_e	Type of the voltage input	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.150 LN: RESCMMXU2 Name: MMXU (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
A	ABBIED600_Rev3_WYE_res_full_i	Residual current		
AMeas-Mod	AB-BIED600_Rev2_ENG_SP_Meas-Mod_e	Selects used measurement mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	REx615 MICS:2014>IEC 61850-7-4:2003
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	REx615 MICS:2014>IEC 61850-7-4:2003
RcdRs	ABBIED600_Rev2_SPC_control_e	RESCMMXU2 demands	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security

6.2.151 LN: RCAVMMXU2 Name: MMXU (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
A	ABBIED600_Rev3_WYE_res_simpler_i	Residual current		
ClcMth	AB-BIED600_Rev2_ENG_SP_ClcMth	Calculation method of statistical data objects	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClcMod	AB-BIED600_Rev1_ENG_SP_ClcMod	Calculation mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClcSrc	ABBIED600_Rev2_ORG_SP_1	Object reference to source logical node		

6.2.152 LN: RCMAMMXU2 Name: MMXU (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
A	ABBIED600_Rev3_WYE_res_simpler_i	Residual current		
ClcMth	AB-BIED600_Rev2_ENG_SP_ClcMth	Calculation method of statistical data objects	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClcMod	AB-BIED600_Rev1_ENG_SP_ClcMod	Calculation mode	E	REx615 MICS:2014>IEC 61850-7-4:2003

ClcSrc	ABBIED600_Rev2_ORG_SP_1	Object reference to source logical node		
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6.2.153 LN: RCMIMMXU2 Name: MMXU (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
A	ABBIED600_Rev3_WYE_res_simpler_i	Residual current		
ClcMth	AB-BIED600_Rev2_ENG_SP_ClcMth	Calculation method of statistical data objects	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClcMod	AB-BIED600_Rev1_ENG_SP_ClcMod	Calculation mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClcSrc	ABBIED600_Rev2_ORG_SP_1	Object reference to source logical node		

6.2.154 LN: XRGGIO130 Name: GGIO (ED1)

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		
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
AnIn1	ABBIED600_Rev6_MV_6	Analogue input 1		
AnIn2	ABBIED600_Rev6_MV_6	Analogue input 2		
AnIn3	ABBIED600_Rev6_MV_6	Analogue input 3		
AnIn4	ABBIED600_Rev6_MV_6	Analogue input 4		
AnIn5	ABBIED600_Rev6_MV_6	Analogue input 5		
AnIn6	ABBIED600_Rev6_MV_6	Analogue input 6		
AnIn7	ABBIED600_Rev6_MV_6	Analogue input 7		
AnIn8	ABBIED600_Rev6_MV_6	Analogue input 8		
Alm1	ABBIED600_Rev1_SPS	Alarm		
Wrn1	ABBIED600_Rev1_SPS	Warning	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMinVal1	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	REx615 MICS:2014>IEC 61850-7-4:2003

InMinVal2	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMinVal3	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMinVal4	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMinVal5	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMinVal6	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMinVal7	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMinVal8	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMaxVal1	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMaxVal2	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMaxVal3	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMaxVal4	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMaxVal5	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMaxVal6	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMaxVal7	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMaxVal8	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMod1	ABBIED600_Rev2_ENG_SP_SenIn-Mod_e	Input mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMod2	ABBIED600_Rev2_ENG_SP_SenIn-Mod_e	Input mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMod3	ABBIED600_Rev2_ENG_SP_SenIn-Mod_e	Input mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMod4	ABBIED600_Rev2_ENG_SP_SenIn-Mod_e	Input mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMod5	ABBIED600_Rev2_ENG_SP_SenIn-Mod_e	Input mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMod6	ABBIED600_Rev2_ENG_SP_SenIn-Mod_e	Input mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMod7	ABBIED600_Rev2_ENG_SP_SenIn-Mod_e	Input mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMod8	ABBIED600_Rev2_ENG_SP_SenIn-Mod_e	Input mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
CardNam	AB-BIED600_Rev7_DPL_eeprom_2_ED2_e	Card information	E	REx615 MICS:2014>IEC 61850-7-4:2003
HwId	ABBIED600_Rev1_LPL_VSS_1_20_e	HW module		

TestStald	ABBIED600_Rev1_LPL_VSS_dU_20_e	Testing		
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6.2.155 LN: MAPGAPC2 Name: GPC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
OpDITmms	ABBIED600_Rev1_ING_SG_e	Operate delay time	E	REx615 MICS:2014>IEC 61850-7-4:2003
RsDITmms	ABBIED600_Rev1_ING_SP_e	Reset delay time	E	REx615 MICS:2014>IEC 61850-7-4:2003
AnIn	ABBIED600_Rev3_MV_2_e	Analogue input	E	REx615 MICS:2014>IEC 61850-7-4:2003
OpModCom	ABBIED600_Rev2_ENG_SP_OpModComp_e	Operation mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
HysAbs	ABBIED600_Rev3_ASG_SP_i_e	Absolute hysteresis for operation	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrValAdd	ABBIED600_Rev3_ASG_SG_i_e	Start value Add	E	REx615 MICS:2014>IEC 61850-7-4:2003
InEnaAdd	ABBIED600_Rev1_SPS_e	Enable start with added start value	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.156 LN: MAPGAPC3 Name: GPC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only

Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
OpDITmms	ABBIED600_Rev1_ING_SG_e	Operate delay time	E	REx615 MICS:2014>IEC 61850-7-4:2003
RsDITmms	ABBIED600_Rev1_ING_SP_e	Reset delay time	E	REx615 MICS:2014>IEC 61850-7-4:2003
AnIn	ABBIED600_Rev3_MV_2_e	Analogue input	E	REx615 MICS:2014>IEC 61850-7-4:2003
OpModCom	ABBIED600_Rev2_ENG_SP_Op-ModComp_e	Operation mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
HysAbs	ABBIED600_Rev3_ASG_SP_i_e	Absolute hysteresis for operation	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrValAdd	ABBIED600_Rev3_ASG_SG_i_e	Start value Add	E	REx615 MICS:2014>IEC 61850-7-4:2003
InEnaAdd	ABBIED600_Rev1_SPS_e	Enable start with added start value	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.157 LN: MAPGAPC4 Name: GACP (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
OpDITmms	ABBIED600_Rev1_ING_SG_e	Operate delay time	E	REx615 MICS:2014>IEC 61850-7-4:2003
RsDITmms	ABBIED600_Rev1_ING_SP_e	Reset delay time	E	REx615 MICS:2014>IEC 61850-7-4:2003
AnIn	ABBIED600_Rev3_MV_2_e	Analogue input	E	REx615 MICS:2014>IEC 61850-7-4:2003

OpModCom	ABBIED600_Rev2_ENG_SP_Op-ModComp_e	Operation mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
HysAbs	ABBIED600_Rev3_ASG_SP_i_e	Absolute hysteresis for operation	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrValAdd	ABBIED600_Rev3_ASG_SG_i_e	Start value Add	E	REx615 MICS:2014>IEC 61850-7-4:2003
InEnaAdd	ABBIED600_Rev1_SPS_e	Enable start with added start value	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.158 LN: MAPGAPC5 Name: GACP (ED1)

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		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
OpDITmms	ABBIED600_Rev1_ING_SG_e	Operate delay time	E	REx615 MICS:2014>IEC 61850-7-4:2003
RsDITmms	ABBIED600_Rev1_ING_SP_e	Reset delay time	E	REx615 MICS:2014>IEC 61850-7-4:2003
AnIn	ABBIED600_Rev3_MV_2_e	Analogue input	E	REx615 MICS:2014>IEC 61850-7-4:2003
OpModCom	ABBIED600_Rev2_ENG_SP_Op-ModComp_e	Operation mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
HysAbs	ABBIED600_Rev3_ASG_SP_i_e	Absolute hysteresis for operation	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrValAdd	ABBIED600_Rev3_ASG_SG_i_e	Start value Add	E	REx615 MICS:2014>IEC 61850-7-4:2003

InEnaAdd	ABBIED600_Rev1_SPS_e	Enable start with added start value	E	REx615 MICS:2014>IEC 61850-7-4:2003
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6.2.159 LN: MAPGAPC6 Name: GAPC (ED1)

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		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev3_ASG_SG_i	Start value		
OpDITmms	ABBIED600_Rev1_ING_SG_e	Operate delay time	E	REx615 MICS:2014>IEC 61850-7-4:2003
RsDITmms	ABBIED600_Rev1_ING_SP_e	Reset delay time	E	REx615 MICS:2014>IEC 61850-7-4:2003
AnIn	ABBIED600_Rev3_MV_2_e	Analogue input	E	REx615 MICS:2014>IEC 61850-7-4:2003
OpModCom	ABBIED600_Rev2_ENG_SP_OpModComp_e	Operation mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev3_MV_2_e	Ratio of start time / operate time	E	REx615 MICS:2014>IEC 61850-7-4:2003
HysAbs	ABBIED600_Rev3_ASG_SP_i_e	Absolute hysteresis for operation	E	REx615 MICS:2014>IEC 61850-7-4:2003
StrValAdd	ABBIED600_Rev3_ASG_SG_i_e	Start value Add	E	REx615 MICS:2014>IEC 61850-7-4:2003
InEnaAdd	ABBIED600_Rev1_SPS_e	Enable start with added start value	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.160 LN: XRGGIO105 Name: GGIO (ED1)

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		
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only

AnIn1	ABBIED600_Rev6_MV_6	Analogue input 1		
AnIn2	ABBIED600_Rev6_MV_6	Analogue input 2		
AnIn3	ABBIED600_Rev6_MV_6	Analogue input 3		
AnIn4	ABBIED600_Rev6_MV_6	Analogue input 4		
AnIn5	ABBIED600_Rev6_MV_6	Analogue input 5		
AnIn6	ABBIED600_Rev6_MV_6	Analogue input 6		
AnIn7	ABBIED600_Rev6_MV_6	Analogue input 7		
AnIn8	ABBIED600_Rev6_MV_6	Analogue input 8		
Alm1	ABBIED600_Rev1_SPS	Alarm		
Wrn1	ABBIED600_Rev1_SPS	Warning	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMinVal1	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMinVal2	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMinVal3	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMinVal4	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMinVal5	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMinVal6	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMinVal7	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMinVal8	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMaxVal1	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMaxVal2	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMaxVal3	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMaxVal4	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMaxVal5	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMaxVal6	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMaxVal7	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	REx615 MICS:2014>IEC 61850-7-4:2003

InMaxVal8	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMod1	ABBIED600_Rev2_ENG_SP_SenIn-Mod_e	Input mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMod2	ABBIED600_Rev2_ENG_SP_SenIn-Mod_e	Input mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMod3	ABBIED600_Rev2_ENG_SP_SenIn-Mod_e	Input mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMod4	ABBIED600_Rev2_ENG_SP_SenIn-Mod_e	Input mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMod5	ABBIED600_Rev2_ENG_SP_SenIn-Mod_e	Input mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMod6	ABBIED600_Rev2_ENG_SP_SenIn-Mod_e	Input mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMod7	ABBIED600_Rev2_ENG_SP_SenIn-Mod_e	Input mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMod8	ABBIED600_Rev2_ENG_SP_SenIn-Mod_e	Input mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
CardNam	AB-BIED600_Rev7_DPL_eeprom_2_ED2_e	Card information	E	REx615 MICS:2014>IEC 61850-7-4:2003
HwId	ABBIED600_Rev1_LPL_VSS_1_20_e	HW module		
TestStald	ABBIED600_Rev1_LPL_VSS_dU_20_e	Testing		

6.2.161 LN: XRGGIO110 Name: GGIO (ED1)

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		
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
AnIn1	ABBIED600_Rev6_MV_6	Analogue input 1		
AnIn2	ABBIED600_Rev6_MV_6	Analogue input 2		
AnIn3	ABBIED600_Rev6_MV_6	Analogue input 3		
AnIn4	ABBIED600_Rev6_MV_6	Analogue input 4		
AnIn5	ABBIED600_Rev6_MV_6	Analogue input 5		
AnIn6	ABBIED600_Rev6_MV_6	Analogue input 6		
AnIn7	ABBIED600_Rev6_MV_6	Analogue input 7		
AnIn8	ABBIED600_Rev6_MV_6	Analogue input 8		
Alm1	ABBIED600_Rev1_SPS	Alarm		

Wrn1	ABBIED600_Rev1_SPS	Warning	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMinVal1	ABBIED600_Rev1_ASG_SP_f_e	Input mini-mum	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMinVal2	ABBIED600_Rev1_ASG_SP_f_e	Input mini-mum	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMinVal3	ABBIED600_Rev1_ASG_SP_f_e	Input mini-mum	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMinVal4	ABBIED600_Rev1_ASG_SP_f_e	Input mini-mum	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMinVal5	ABBIED600_Rev1_ASG_SP_f_e	Input mini-mum	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMinVal6	ABBIED600_Rev1_ASG_SP_f_e	Input mini-mum	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMinVal7	ABBIED600_Rev1_ASG_SP_f_e	Input mini-mum	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMinVal8	ABBIED600_Rev1_ASG_SP_f_e	Input mini-mum	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMaxVal1	ABBIED600_Rev1_ASG_SP_f_e	Input maxi-mum	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMaxVal2	ABBIED600_Rev1_ASG_SP_f_e	Input maxi-mum	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMaxVal3	ABBIED600_Rev1_ASG_SP_f_e	Input maxi-mum	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMaxVal4	ABBIED600_Rev1_ASG_SP_f_e	Input maxi-mum	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMaxVal5	ABBIED600_Rev1_ASG_SP_f_e	Input maxi-mum	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMaxVal6	ABBIED600_Rev1_ASG_SP_f_e	Input maxi-mum	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMaxVal7	ABBIED600_Rev1_ASG_SP_f_e	Input maxi-mum	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMaxVal8	ABBIED600_Rev1_ASG_SP_f_e	Input maxi-mum	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMod1	ABBIED600_Rev2_ENG_SP_SenIn-Mod_e	Input mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMod2	ABBIED600_Rev2_ENG_SP_SenIn-Mod_e	Input mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMod3	ABBIED600_Rev2_ENG_SP_SenIn-Mod_e	Input mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMod4	ABBIED600_Rev2_ENG_SP_SenIn-Mod_e	Input mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMod5	ABBIED600_Rev2_ENG_SP_SenIn-Mod_e	Input mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMod6	ABBIED600_Rev2_ENG_SP_SenIn-Mod_e	Input mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
InMod7	ABBIED600_Rev2_ENG_SP_SenIn-Mod_e	Input mode	E	REx615 MICS:2014>IEC 61850-7-4:2003

InMod8	ABBIED600_Rev2_ENG_SP_SenIn-Mod_e	Input mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
CardNam	AB-BIED600_Rev7_DPL_eeprom_2_ED2_e	Card information	E	REx615 MICS:2014>IEC 61850-7-4:2003
Hwld	ABBIED600_Rev1_LPL_VSS_1_20_e	HW module		
TestStald	ABBIED600_Rev1_LPL_VSS_dU_20_e	Testing		

6.2.162 LN: TRPPTRC4 Name: PTRC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
Tr	ABBIED600_Rev1_ACT_simple_dU	General trip output signal		
Op	ABBIED600_Rev1_ACT_simple_dU	Operate input signal		
TrPIsTmms	ABBIED600_Rev1_ING_SP_1	Minimum duration of trip output signal		
TrOutMod	AB-BIED600_Rev2_ENG_SP_TrOut-Mod_e	Trip output mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
LORs	ABBIED600_Rev2_SPC_indications_e	RST_LKOUT	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
TrRs	ABBIED600_Rev2_SPC_indications_e	Reset latched trip	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
ClsLO	ABBIED600_Rev1_SPS_e	Circuit breaker lock-out output (set until reset)	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.163 LN: TRPPTRC5 Name: PTRC (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs	E	REx615 MICS:2014>IEC 61850-7-4:2003
Tr	ABBIED600_Rev1_ACT_simple_dU	General trip output signal		

Op	ABBIED600_Rev1_ACT_simple_dU	Operate input signal		
TrPlsTmms	ABBIED600_Rev1_ING_SP_1	Minimum duration of trip output signal		
TrOutMod	AB-BIED600_Rev2_ENG_SP_TrOut-Mod_e	Trip output mode	E	REx615 MICS:2014>IEC 61850-7-4:2003
LORs	ABBIED600_Rev2_SPC_indications_e	RST_LKOUT	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
TrRs	ABBIED600_Rev2_SPC_indications_e	Reset latched trip	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
ClsLO	ABBIED600_Rev1_SPS_e	Circuit breaker lock-out output (set until reset)	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.164 LN: LLN0 Name: LLN0 (ED1)

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		
Health	ABBIED600_Rev4_ENS_health	Control		ED1 only
NamPlt	ABBIED600_Rev2_LPL_CTRLDR_LNN0	Control		
Loc	ABBIED600_Rev1_SPS_retain	Local / Remote		
LocKey	ABBIED600_Rev1_SPS_simple	Local operation	E	REx615 MICS:2014>IEC 61850-7-4:2003
LocSta	ABBIED600_Rev1_SPC_retain	Station operation	E	REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security
GrRef	ABBIED600_Rev2_ORG_SP_1	GrRef		
MltLev	ABBIED600_Rev1_SPG_SP	Multiple levels	E	REx615 MICS:2014>IEC 61850-7-4:2003
LocRem	ABBIED600_Rev3_ENS_LocRem_e	Local / Remote state	E	REx615 MICS:2014>IEC 61850-7-4:2003
LocKeyOff	ABBIED600_Rev1_SPS_simple_e	Control disable	E	REx615 MICS:2014>IEC 61850-7-4:2003
LocKeyLoc	ABBIED600_Rev1_SPS_simple_e	Control local	E	REx615 MICS:2014>IEC 61850-7-4:2003
LocKeyRem	ABBIED600_Rev1_SPS_simple_e	Control remote	E	REx615 MICS:2014>IEC 61850-7-4:2003
LocKeySta	ABBIED600_Rev1_SPS_simple_e	Control station	E	REx615 MICS:2014>IEC 61850-7-4:2003
LocKeyAll	ABBIED600_Rev1_SPS_simple_e	Control all	E	REx615 MICS:2014>IEC 61850-7-4:2003
LocRemMod	AB-BIED600_Rev1_ENG_SP_LocRemMod_e	Control mode	E	REx615 MICS:2014>IEC 61850-7-4:2003

StaLevSet	ABBIED600_Rev1_ENG_SP_StaAuth_e	Station authority	E	REx615 MICS:2014>IEC 61850-7-4:2003
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6.2.165 LN: CBCSWI1 Name: CSWI (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
OpCntRs	ABBIED600_Rev2_INC_control_int	Operation counter		status-only,direct-with-normal-security
Pos	ABBIED600_Rev8_DPC_control	Switch, general		status-only,direct-with-normal-security,sbo-with-enhanced-security
OpOpn	ABBIED600_Rev1_ACT_simple	Switch, general		
OpCls	ABBIED600_Rev1_ACT_simple	Switch, general		
SelOpn	ABBIED600_Rev1_SPS	Selection open switch	E	REx615 MICS:2014>IEC 61850-7-4:2003
SelCls	ABBIED600_Rev1_SPS	Selection close switch	E	REx615 MICS:2014>IEC 61850-7-4:2003
PosDIT-mms	ABBIED600_Rev1_ING_SP_1_e	Event delay	E	REx615 MICS:2014>IEC 61850-7-4:2003
PosOpn	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit opn	E	REx615 MICS:2014>IEC 61850-7-4:2003
PosCls	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit cls	E	REx615 MICS:2014>IEC 61850-7-4:2003
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	REx615 MICS:2014>IEC 61850-7-4:2003
AdpPls	ABBIED600_Rev1_SPG_SP_e	Adaptive pulse	E	REx615 MICS:2014>IEC 61850-7-4:2003
OpnEna	ABBIED600_Rev1_SPS_e	OPEN_ENAD	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClsEna	ABBIED600_Rev1_SPS_e	CLOSE_ENAD	E	REx615 MICS:2014>IEC 61850-7-4:2003
InSynOk	ABBIED600_Rev1_SPS_e	SYNC OK	E	REx615 MICS:2014>IEC 61850-7-4:2003
SynItlByps	ABBIED600_Rev1_SPS_e	SYNC_ITL_BYP	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.166 LN: CBCSWI2 Name: CSWI (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only

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		
OpClis	ABBIED600_Rev1_ACT_simple	Switch, general		
SelOpn	ABBIED600_Rev1_SPS	Selection open switch	E	REx615 MICS:2014>IEC 61850-7-4:2003
SelClis	ABBIED600_Rev1_SPS	Selection close switch	E	REx615 MICS:2014>IEC 61850-7-4:2003
PosDIT-mms	ABBIED600_Rev1_ING_SP_1_e	Event delay	E	REx615 MICS:2014>IEC 61850-7-4:2003
PosOpn	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit opn	E	REx615 MICS:2014>IEC 61850-7-4:2003
PosClis	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit cls	E	REx615 MICS:2014>IEC 61850-7-4:2003
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	REx615 MICS:2014>IEC 61850-7-4:2003
AdpPls	ABBIED600_Rev1_SPG_SP_e	Adaptive pulse	E	REx615 MICS:2014>IEC 61850-7-4:2003
OpnEna	ABBIED600_Rev1_SPS_e	OPEN_ENAD	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClsEna	ABBIED600_Rev1_SPS_e	CLOSE_ENAD	E	REx615 MICS:2014>IEC 61850-7-4:2003
InSynOk	ABBIED600_Rev1_SPS_e	SYNC OK	E	REx615 MICS:2014>IEC 61850-7-4:2003
SynItlByps	ABBIED600_Rev1_SPS_e	SYNC_ITL_BYP	E	REx615 MICS:2014>IEC 61850-7-4:2003

6.2.167 LN: CBCSWI3 Name: CSWI (ED1)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffsetOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev2_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		ED1 only
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		ED1 only
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		
OpClis	ABBIED600_Rev1_ACT_simple	Switch, general		
SelOpn	ABBIED600_Rev1_SPS	Selection open switch	E	REx615 MICS:2014>IEC 61850-7-4:2003
SelClis	ABBIED600_Rev1_SPS	Selection close switch	E	REx615 MICS:2014>IEC 61850-7-4:2003

PosDIT-mms	ABBIED600_Rev1_ING_SP_1_e	Event delay	E	REx615 MICS:2014>IEC 61850-7-4:2003
PosOpn	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit opn	E	REx615 MICS:2014>IEC 61850-7-4:2003
PosCls	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit cls	E	REx615 MICS:2014>IEC 61850-7-4:2003
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	REx615 MICS:2014>IEC 61850-7-4:2003
AdpPls	ABBIED600_Rev1_SPG_SP_e	Adaptive pulse	E	REx615 MICS:2014>IEC 61850-7-4:2003
OpnEna	ABBIED600_Rev1_SPS_e	OPEN_ENAD	E	REx615 MICS:2014>IEC 61850-7-4:2003
ClsEna	ABBIED600_Rev1_SPS_e	CLOSE_ENAD	E	REx615 MICS:2014>IEC 61850-7-4:2003
InSynOk	ABBIED600_Rev1_SPS_e	SYNC OK	E	REx615 MICS:2014>IEC 61850-7-4:2003
SynItlByps	ABBIED600_Rev1_SPS_e	SYNC_ITL_BYP	E	REx615 MICS:2014>IEC 61850-7-4:2003

7 Common Data Class Extensions

7.1 New common data classes

None

7.2 Extented data classes ED1

7.2.1 ABBIED600_Rev5_ENG_SP_DNPPort_ED2

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

7.2.2 ABBIED600_Rev3_SPG_SP_authority_ED2

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

7.2.3 ABBIED600_Rev4_SPS_LocClk_ED2

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

stVal	BOOLEAN	ST	dchg		M	
q	Quality	ST	qchg		M	
t	Timestamp	ST			M	
cdcNs	VisString255	EX			E	
cdcName	VisString255	EX			E	
time	VisString255	EX			E	
date	VisString255	EX			E	
timeSpring	VisString255	EX			E	
dateSpring	VisString255	EX			E	
offsetSpring	INT16	EX			E	
daySpring	Enum	EX		ABBIED600_Rev1_weekday	E	
timeAutumn	VisString255	EX			E	
dateAutumn	VisString255	EX			E	
dayAutumn	Enum	EX		ABBIED600_Rev1_weekday	E	
offsetSpringMinVal	INT16	CF				
offsetSpringMaxVal	INT16	CF				

7.2.4 ABBIED600_Rev3_ENG_SP_CommPort_ED2

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

7.2.5 ABBIED600_Rev5_ENG_SP_I5CPort_ED2

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

7.2.6 ABBIED600_Rev5_ENC_mod_control_ED2

Attribute name	Attribute type	FC	TrgOp	Value/Value range	M/O/E	Re- marks
Oper	Struct	CO		ABBIED600_Rev1_tcOper_Mod_OnTestOff	O	
stVal	Enum	ST	dchg	ABBIED600_Rev1_BehaviourModeKind_OnTes- tOff	M	
q	Quality	ST	qchg		M	
t	Timestamp	ST			M	
ctlModel	Enum	CF		ABBIED600_Rev1_CtlModelKind_StatusDirect	M	
cdcNs	VisString255	EX			E	
cdcName	VisString255	EX			E	
blockIn	BOOLEAN	EX			E	
bits	INT8U	ST				

storVal	INT8U	SP				
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7.2.7 ABBIED600_Rev5_ENC_Mod_OnTestblockedOff_FD_ED2

Attribute name	Attribute type	FC	TrgOp	Value/Value range	M/O/E	Re-marks
Oper	Struct	CO		ABBIED600_Rev1_tcOper_Mod_OnTestblockedOff	O	
stVal	Enum	ST	dchg	ABBIED600_Rev1_BehaviourModeKind_On-TestblockedOff	M	
q	Quality	ST	qchg		M	
t	Timestamp	ST			M	
ctlModel	Enum	CF		ABBIED600_Rev1_CtlModelKind_StatusDirect	M	
cdcNs	VisString255	EX			E	
cdcName	VisString255	EX			E	
blockIn	BOOLEAN	EX			E	
bits	INT8U	ST				
storVal	INT8U	SP				

7.2.8 ABBIED600_Rev5_ENC_Mod_OnTestOff__ED2

Attribute name	Attribute type	FC	TrgOp	Value/Value range	M/O/E	Re-marks
Oper	Struct	CO		ABBIED600_Rev1_tcOper_Mod_OnTestOff	O	
stVal	Enum	ST	dchg	ABBIED600_Rev1_BehaviourModeKind_OnTes-tOff	M	
q	Quality	ST	qchg		M	
t	Timestamp	ST			M	
ctlModel	Enum	CF		ABBIED600_Rev1_CtlModelKind_StatusDirect	M	
cdcNs	VisString255	EX			E	
cdcName	VisString255	EX			E	
blockIn	BOOLEAN	EX			E	
bits	INT8U	ST				
storVal	INT8U	SP				

7.2.9 ABBIED600_Rev5_ENC_Mod_OnTest_ED2

Attribute name	Attribute type	FC	TrgOp	Value/Value range	M/O/E	Remarks
Oper	Struct	CO		ABBIED600_Rev1_tcOper_Mod_OnTest	O	
stVal	Enum	ST	dchg	ABBIED600_Rev1_BehaviourModeKind_OnTest	M	
q	Quality	ST	qchg		M	
t	Timestamp	ST			M	
ctlModel	Enum	CF		ABBIED600_Rev1_CtlModelKind_StatusDirect	M	
cdcNs	VisString255	EX			E	
cdcName	VisString255	EX			E	
blockIn	BOOLEAN	EX			E	
bits	INT8U	ST				
storVal	INT8U	SP				

7.2.10 ABBIED600_Rev5_ENC_Mod_OnOff_FD_ED2

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

7.2.11 ABBIED600_Rev5_ENC_Mod_OnOff_ED2

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

7.2.12 ABBIED600_Rev4_ENC_Mod_On_Blk_ED2

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

7.2.13 ABBIED600_Rev10_INS_error

Attribute name	Attribute type	FC	TrgOp	Value/Value range	M/O/E	Remarks
stVal	Enum	ST	dchg	ABBIED600_Rev6_Health_Error	M	
q	Quality	ST	qchg		M	
t	Timestamp	ST			M	
cdcNs	VisString255	EX			E	

cdcName	VisString255	EX			E	
debug	VisString255	EX			E	
eDiag1	INT32U	EX			E	
eDiag2	INT32U	EX			E	
eDiag3	INT32U	EX			E	
eDiag4	INT32U	EX			E	

7.2.14 ABBIED600_Rev10_ENS_error

Attribute name	Attribute type	FC	TrgOp	Value/Value range	M/O/E	Remarks
stVal	Enum	ST	dchg	ABBIED600_Rev6_Health_Error	M	
q	Quality	ST	qchg		M	
t	Timestamp	ST			M	
eDiag1	INT32U	EX			E	
eDiag2	INT32U	EX			E	
eDiag3	INT32U	EX			E	
eDiag4	INT32U	EX			E	

7.2.15 ABBIED600_Rev8_LPL_LD0_LNN0_ED2

Attribute name	Attribute type	FC	TrgOp	Value/Value range	M/O/E	Remarks
vendor	VisString255	DC				
swRev	VisString255	DC				
d	VisString255	DC			M	
configRev	VisString255	DC				
paramRev	INT32	ST	dchg			
valRev	INT32	ST	dchg			
ldNs	VisString255	EX				
cdcNs	VisString255	EX			E	
cdcName	VisString255	EX			E	
eFD	VisString255	EX			E	

7.2.16 ABBIED600_Rev3_LPL_mms

Attribute name	Attribute type	FC	TrgOp	Value/Value range	M/O/E	Remarks
vendor	VisString255	DC				
swRev	VisString255	DC				
d	VisString255	DC			M	
lnNs	VisString255	EX				
cdcNs	VisString255	EX			E	
cdcName	VisString255	EX			E	
elp1	VisString255	EX			E	
elp2	VisString255	EX			E	
elp3	VisString255	EX			E	
elp4	VisString255	EX			E	
elp5	VisString255	EX			E	

7.2.17 ABBIED600_Rev7_LPL_MBS_ED2

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

7.2.18 ABBIED600_Rev5_LPL_tms_ED2

Attribute name	Attribute type	FC	TrgOp	Value/Value range	M/O/E	Remarks
vendor	VisString255	DC				
swRev	VisString255	DC				
d	VisString255	DC			M	
InNs	VisString255	EX				
cdcNs	VisString255	EX			E	
cdcName	VisString255	EX			E	
mstrId	VisString255	EX			E	
elpSNTPpri	VisString255	EX			E	
elpSNTPsec	VisString255	EX			E	

7.2.19 ABBIED600_Rev3_LPL_LD0_LINF_ED2

Attribute name	Attribute type	FC	TrgOp	Value/Value range	M/O/E	Remarks
vendor	VisString255	DC				
swRev	VisString255	DC				
d	VisString255	DC			M	
InNs	VisString255	EX				
cdcNs	VisString255	EX			E	
cdcName	VisString255	EX			E	
eConfName	VisString255	EX			E	
eBayName	VisString255	EX			E	
eDevRev	VisString255	EX			E	
eCustomer	VisString255	EX			E	
eStreet	VisString255	EX			E	

eHouseNum	VisString255	EX			E	
eZip	VisString255	EX			E	
eCity	VisString255	EX			E	
eState	VisString255	EX			E	
eCountry	VisString255	EX			E	

7.2.20 ABBIED600_Rev5_LPL_LD0_LTIM

Attribute name	Attribute type	FC	TrgOp	Value/Value range	M/O/E	Remarks
vendor	VisString255	DC				
swRev	VisString255	DC				
d	VisString255	DC			M	
InNs	VisString255	EX				
cdcNs	VisString255	EX			E	
cdcName	VisString255	EX			E	
occDT	INT16U	EX			E	
occTypeDT	Enum	EX		ABBIED600_Rev1_setCal_occType	E	
occPerDT	Enum	EX		ABBIED600_Rev1_setCal_occPer	E	
weekDayDT	Enum	EX		ABBIED600_Rev1_setCal_weekDay	E	
monthDT	Enum	EX		ABBIED600_Rev1_setCal_month	E	
dayDT	INT8U	EX			E	
hrDT	INT8U	EX			E	
mnDT	INT8U	EX			E	
occST	INT16U	EX			E	
occTypeST	Enum	EX		ABBIED600_Rev1_setCal_occType	E	
occPerST	Enum	EX		ABBIED600_Rev1_setCal_occPer	E	
weekDayST	Enum	EX		ABBIED600_Rev1_setCal_weekDay	E	
monthST	Enum	EX		ABBIED600_Rev1_setCal_month	E	
dayST	INT8U	EX			E	
hrST	INT8U	EX			E	
mnST	INT8U	EX			E	
tmSys	VisString255	EX			E	
dateSys	VisString255	EX			E	
dayMinVal	INT8U	CF				
dayMaxVal	INT8U	CF				
hrMinVal	INT8U	CF				
hrMaxVal	INT8U	CF				
mnMinVal	INT8U	CF				
mnMaxVal	INT8U	CF				

7.2.21 ABBIED600_Rev2_LPL_LD0_LDEV_ED2

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

d	VisString255	DC			M	
lnNs	VisString255	EX				
cdcNs	VisString255	EX			E	
cdcName	VisString255	EX			E	
eSwDate	VisString255	EX			E	
eSwNum	VisString255	EX			E	
eProdDate	VisString255	EX			E	
eOrdNum	VisString255	EX			E	
eMacAddr	VisString255	EX			E	
eMacAddr1	VisString255	EX			E	
elp	VisString255	EX			E	
elpSubNet	VisString255	EX			E	
elpGateWay	VisString255	EX			E	
elpFront	VisString255	EX			E	

7.2.22 ABBIED600_Rev2_LPL_1tsg_setCal

Attribute name	Attribute type	FC	TrgOp	Value/Value range	M/O/E	Remarks
vendor	VisString255	DC				
swRev	VisString255	DC				
d	VisString255	DC			M	
lnNs	VisString255	EX				
cdcNs	VisString255	EX			E	
cdcName	VisString255	EX			E	
occ	INT16U	EX			E	
occType	Enum	EX		ABBIED600_Rev1_setCal_occType	E	
occPer	Enum	EX		ABBIED600_Rev1_setCal_occPer	E	
weekDay	Enum	EX		ABBIED600_Rev1_setCal_weekDay	E	
month	Enum	EX		ABBIED600_Rev1_setCal_month	E	
day	INT8U	EX			E	
hr	INT8U	EX			E	
mn	INT8U	EX			E	
dayMinVal	INT8U	CF				
dayMaxVal	INT8U	CF				
hrMinVal	INT8U	CF				
hrMaxVal	INT8U	CF				
mnMinVal	INT8U	CF				
mnMaxVal	INT8U	CF				

7.2.23 ABBIED600_Rev5_DPL_ied

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

serNum	VisString255	DC				
model	VisString255	DC				
location	VisString255	DC				
name	VisString64	DC				
cdcNs	VisString255	EX			E	
cdcName	VisString255	EX			E	

7.2.24 ABBIED600_Rev7_DPL_eeprom_2_ED2

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

7.2.25 ABBIED600_Rev4_DPL_eeprom_1_ED2

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

7.2.26 ABBIED600_Rev4_DPC_simple

Attribute name	Attribute type	FC	TrgOp	Value/Value range	M/O/E	Remarks
stVal	Dbpos	ST	dchg		M	
q	Quality	ST	qchg		M	

t	Timestamp	ST			M	
ctlModel	Enum	CF		ABBIED600_Rev1_CtlModelKind_Status	M	
d	VisString255	DC			O	
dU	Unicode255	DC			O	
resCmdRsp	INT32	EX			E	

7.2.27 ABBIED600_Rev8_DPC_control

Attribute name	Attribute type	FC	TrgOp	Value/Value range	M/O/E	Re-marks
SBOw	Struct	CO		ABBIED600_Rev1_tcOper	O	
Oper	Struct	CO		ABBIED600_Rev1_tcOper	O	
Cancel	Struct	CO		ABBIED600_Rev1_tcCancel	O	
stVal	Dbpos	ST	dchg		M	
q	Quality	ST	qchg		M	
t	Timestamp	ST			M	
stSelD	BOOLEAN	ST	dchg			
pulseConfig	Struct	CF		PulseConfig		
ctlModel	Enum	CF		ABBIED600_Rev1_CtlModelKind_StatusDirectSbo	M	
sboTimeout	INT32U	CF				
d	VisString255	DC			O	
dU	Unicode255	DC			O	
cdcNs	VisString255	EX			E	
cdcName	VisString255	EX			E	
operTimeout	INT32U	CF				
sboTimeoutStep-Size	INT32U	CF				
sboTimeoutMinVal	INT32U	CF				
sboTimeoutMaxVal	INT32U	CF				
operTimeoutMinVal	INT32U	CF				
operTimeout-MaxVal	INT32U	CF				
strSBOwOn	BOOLEAN	CO				
strSBOwOff	BOOLEAN	CO				
strOperOn	BOOLEAN	CO				
strOperOff	BOOLEAN	CO				
strCancel	BOOLEAN	CO				
resCmdRsp	INT32	EX			E	

7.2.28 ABBIED600_Rev1_LPL_RSS

Attribute name	Attribute type	FC	TrgOp	Value/Value range	M/O/E	Remarks
stValA	BOOLEAN	ST				
stValB	BOOLEAN	ST				
q	Quality	ST	qchg		M	

t	Timestamp	ST			M	
errRateA	INT32U	ST				
errRateB	INT32U	ST				
appName	VisString255	CF				
addr	VisString255	CF				
d	VisString255	DC		O		
dU	VisString255	DC		O		
cdcNs	VisString255	EX		E		
cdcName	VisString255	EX		E		
dataNs	VisString255	EX				

8 Enum type extensions

8.1 New Enum types

8.1.1 ABBIED600_Rev1_CtlModelKind_StatusDirect

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

8.1.2 ABBIED600_Rev1_OpModSG

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

8.1.3 ABBIED600_Rev1_CpySG

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

8.1.4 ABBIED600_Rev1_CtlModelKind_Status

Value	Description	Remarks
0	status-only	

8.1.5 ABBIED600_Rev1_SetSvMaxDI

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_dmdltrv

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_AlmlLedSt

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	Terrestrial 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
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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	Ilt	Operation mode,Motor start-up operation mode
2	Ilt, CB	Operation mode,Motor start-up operation mode
3	Ilt + stall	Operation mode,Motor start-up operation mode
4	Ilt + 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
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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_CTCConnTyp

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	Description	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_ZroAEIm

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_FuLoc

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_AlarmReas

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_FlwFlt

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
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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_TestProRKind

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	Clo	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	CloB	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	CloC	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 5.2 Extented Enum types

8.2.1 5.2.1 ABBIED600_Rev1_HealthKind

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

8.2.2 5.2.2 ABBIED600_Rev1_PhaseFaultDirectionKind

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

8.2.3 5.2.3 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 5.2.4 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 5.2.5 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
-72	DOPPDPR1	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	FDPHPDOC1	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	LSDPFRQ8	Protection,Protection function
-31	LSDPFRQ7	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	LRRTPTUV1	Protection,Protection function
-9	PHIZ1	Protection,Protection function
-8	LRRTPTUV2	Protection,Protection function
-7	INTRPTEF1	Protection,Protection function
-6	LRRTPTUV3	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	LSDPFRQ1	Protection,Protection function
66	LSDPFRQ2	Protection,Protection function
67	LSDPFRQ3	Protection,Protection function
68	LSDPFRQ4	Protection,Protection function
69	LSDPFRQ5	Protection,Protection function
70	LSDPFRQ6	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 5.2.6 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 5.2.7 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 5.2.8 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 5.2.9 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 5.2.10 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 5.2.11 ABBIED600_Rev1_I3CCIs2Frame

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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