

Protection and Control Relay

611 SERIES

IEC 61850 ED1 Model Implementation Conformance Statement (MICS) for 611 SERIES



ABB

Table of Contents

| | | |
|----------|--------------------------------------|-----------|
| 1 | About this manual | 10 |
| 1.1 | Read it first! | 10 |
| 1.2 | Document information | 10 |
| 1.3 | Safety Information | 10 |
| 2 | Abbreviations and Definitions | 11 |
| 2.1 | Abbreviations | 11 |
| 2.2 | Definitions | 11 |
| 3 | References | 12 |
| 4 | Introduction | 12 |
| 5 | Logical Nodes List | 13 |
| 6 | Logical Node Extensions | 19 |
| 6.1 | New Logical Nodes | 19 |
| 6.1.1 | LN: LINF1 Name: LINF (ED1) | 19 |
| 6.1.2 | LN: LDEV1 Name: LDEV (ED1) | 20 |
| 6.1.3 | LN: GSAL1 Name: GSAL (ED1) | 22 |
| 6.1.4 | LN: GSELPRT1 Name: LPRT (ED1) | 23 |
| 6.1.5 | LN: MMSLPRT1 Name: LPRT (ED1) | 24 |
| 6.1.6 | LN: GNRLLTMM1 Name: LTMM (ED1) | 25 |
| 6.1.7 | LN: GNRLLTIM1 Name: LTIM (ED1) | 26 |
| 6.1.8 | LN: TCSSCBR1 Name: SCBR (ED1) | 27 |
| 6.1.9 | LN: TCSSCBR2 Name: SCBR (ED1) | 27 |
| 6.1.10 | LN: CBPSOF1 Name: PSOF (ED1) | 28 |
| 6.1.11 | LN: TPGAPC1 Name: GAPC (ED1) | 28 |
| 6.1.12 | LN: TPGAPC2 Name: GAPC (ED1) | 29 |
| 6.1.13 | LN: TPGAPC3 Name: GAPC (ED1) | 29 |
| 6.1.14 | LN: TPGAPC4 Name: GAPC (ED1) | 29 |
| 6.1.15 | LN: TPGAPC5 Name: GAPC (ED1) | 30 |
| 6.1.16 | LN: TPGAPC6 Name: GAPC (ED1) | 30 |
| 6.1.17 | LN: TPGAPC7 Name: GAPC (ED1) | 30 |
| 6.1.18 | LN: TPGAPC8 Name: GAPC (ED1) | 31 |
| 6.1.19 | LN: TPGAPC9 Name: GAPC (ED1) | 31 |
| 6.1.20 | LN: TPGAPC10 Name: GAPC (ED1) | 31 |
| 6.1.21 | LN: MVGAPC1 Name: GAPC (ED1) | 32 |
| 6.1.22 | LN: FLTRFRC1 Name: RFRC (ED1) | 32 |
| 6.1.23 | LN: ISWGAPC1 Name: GAPC (ED1) | 36 |
| 6.1.24 | LN: ISWGAPC2 Name: GAPC (ED1) | 38 |
| 6.1.25 | LN: ISWGAPC3 Name: GAPC (ED1) | 40 |
| 6.1.26 | LN: ISWGAPC4 Name: GAPC (ED1) | 42 |
| 6.1.27 | LN: ISWGAPC5 Name: GAPC (ED1) | 44 |
| 6.1.28 | LN: ISWGAPC6 Name: GAPC (ED1) | 46 |
| 6.1.29 | LN: ISWGAPC7 Name: GAPC (ED1) | 48 |
| 6.1.30 | LN: ISWGAPC8 Name: GAPC (ED1) | 49 |

| | | |
|--------|---------------------------------------|-----|
| 6.1.31 | LN: ISWGAPC9 Name: GACP (ED1)..... | 51 |
| 6.1.32 | LN: ISWGAPC10 Name: GACP (ED1)..... | 53 |
| 6.1.33 | LN: OSWGAPC1 Name: GACP (ED1)..... | 55 |
| 6.1.34 | LN: OSWGAPC2 Name: GACP (ED1)..... | 57 |
| 6.1.35 | LN: OSWGAPC3 Name: GACP (ED1)..... | 58 |
| 6.1.36 | LN: OSWGAPC4 Name: GACP (ED1)..... | 60 |
| 6.1.37 | LN: OSWGAPC5 Name: GACP (ED1)..... | 61 |
| 6.1.38 | LN: OSWGAPC6 Name: GACP (ED1)..... | 63 |
| 6.1.39 | LN: OSWGAPC7 Name: GACP (ED1)..... | 65 |
| 6.1.40 | LN: OSWGAPC8 Name: GACP (ED1)..... | 66 |
| 6.1.41 | LN: OSWGAPC9 Name: GACP (ED1)..... | 68 |
| 6.1.42 | LN: OSWGAPC10 Name: GACP (ED1)..... | 69 |
| 6.1.43 | LN: OSWGAPC11 Name: GACP (ED1)..... | 71 |
| 6.1.44 | LN: OSWGAPC12 Name: GACP (ED1)..... | 72 |
| 6.1.45 | LN: OSWGAPC13 Name: GACP (ED1)..... | 74 |
| 6.1.46 | LN: OSWGAPC14 Name: GACP (ED1)..... | 75 |
| 6.1.47 | LN: OSWGAPC15 Name: GACP (ED1)..... | 77 |
| 6.1.48 | LN: OSWGAPC16 Name: GACP (ED1)..... | 79 |
| 6.1.49 | LN: OSWGAPC17 Name: GACP (ED1)..... | 80 |
| 6.1.50 | LN: OSWGAPC18 Name: GACP (ED1)..... | 82 |
| 6.1.51 | LN: OSWGAPC19 Name: GACP (ED1)..... | 83 |
| 6.1.52 | LN: OSWGAPC20 Name: GACP (ED1)..... | 85 |
| 6.1.53 | LN: SELGAPC1 Name: GACP (ED1)..... | 86 |
| 6.1.54 | LN: SELGAPC2 Name: GACP (ED1)..... | 88 |
| 6.1.55 | LN: SELGAPC3 Name: GACP (ED1)..... | 90 |
| 6.1.56 | LN: SELGAPC4 Name: GACP (ED1)..... | 92 |
| 6.1.57 | LN: SELGAPC5 Name: GACP (ED1)..... | 94 |
| 6.1.58 | LN: SELGAPC6 Name: GACP (ED1)..... | 96 |
| 6.1.59 | LN: MDSOPT1 Name: SOPT (ED1)..... | 98 |
| 6.1.60 | LN: TPSGAPC1 Name: GACP (ED1) | 99 |
| 6.1.61 | LN: HIAPDIF1 Name: PDIF (ED1) | 100 |
| 6.1.62 | LN: HIBPDIF1 Name: PDIF (ED1) | 100 |
| 6.1.63 | LN: HICPDIF1 Name: PDIF (ED1) | 101 |
| 6.1.64 | LN: HZCCASPVC1 Name: SPVC (ED1)..... | 101 |
| 6.1.65 | LN: HZCCBSPVC1 Name: SPVC (ED1)..... | 102 |
| 6.1.66 | LN: HZCCCSPVC1 Name: SPVC (ED1) | 103 |
| 6.1.67 | LN: DEFHRDIR1 Name: RDIR (ED1) | 103 |
| 6.1.68 | LN: DEFLRDIR1 Name: RDIR (ED1) | 104 |
| 6.1.69 | LN: DEFLRDIR2 Name: RDIR (ED1) | 105 |
| 6.1.70 | LN: DPHLRDIR1 Name: RDIR (ED1)..... | 106 |
| 6.1.71 | LN: DPHLRDIR2 Name: RDIR (ED1)..... | 107 |
| 6.1.72 | LN: DPDDRDIR1 Name: RDIR (ED1) | 108 |
| 6.1.73 | LN: IL1TCTR1 Name: TCTR (ED1)..... | 109 |
| 6.1.74 | LN: RESTCTR1 Name: TCTR (ED1) | 109 |
| 6.1.75 | LN: RESTVTR1 Name: TVTR (ED1)..... | 110 |
| 6.1.76 | LN: UL1TVTR1 Name: TVTR (ED1) | 110 |
| 6.1.77 | LN: SERLCCH1 Name: LCCH (ED1)..... | 111 |
| 6.1.78 | LN: SERLCCH2 Name: LCCH (ED1)..... | 112 |

| | | |
|--------|--------------------------------------|-----|
| 6.1.79 | LN: RCHLCCH1 Name: LCCH (ED1) | 113 |
| 6.1.80 | LN: SCHLCCH1 Name: LCCH (ED1)..... | 113 |
| 6.1.81 | LN: SCHLCCH2 Name: LCCH (ED1)..... | 114 |
| 6.1.82 | LN: SCHLCCH3 Name: LCCH (ED1)..... | 114 |
| 6.1.83 | LN: MBSLPRT1 Name: LPRT (ED1)..... | 114 |
| 6.1.84 | LN: MBSLPRT2 Name: LPRT (ED1)..... | 116 |
| 6.1.85 | LN: MBSLPRT3 Name: LPRT (ED1)..... | 118 |
| 6.1.86 | LN: MBSLPRT4 Name: LPRT (ED1)..... | 120 |
| 6.1.87 | LN: MBSLPRT5 Name: LPRT (ED1)..... | 121 |
| 6.1.88 | LN: DARREC1 Name: RREC (ED1) | 123 |
| 6.1.89 | LN: RDRE1 Name: RDRE (ED1) | 129 |
| 6.2 | Extented Logical Nodes | 130 |
| 6.2.1 | LN: CMMXU1 Name: MMXU (ED1) | 130 |
| 6.2.2 | LN: CAVMMXU1 Name: MMXU (ED1) | 131 |
| 6.2.3 | LN: CMAMMXU1 Name: MMXU (ED1)..... | 131 |
| 6.2.4 | LN: CMIMMMXU1 Name: MMXU (ED1) | 131 |
| 6.2.5 | LN: RESCMMXU1 Name: MMXU (ED1)..... | 132 |
| 6.2.6 | LN: RCAVMMXU1 Name: MMXU (ED1)..... | 132 |
| 6.2.7 | LN: RCMAMMXU1 Name: MMXU (ED1) | 133 |
| 6.2.8 | LN: RCMIMMMXU1 Name: MMXU (ED1)..... | 133 |
| 6.2.9 | LN: PHIPTOC1 Name: PTOC (ED1)..... | 133 |
| 6.2.10 | LN: NSPTOC1 Name: PTOC (ED1)..... | 134 |
| 6.2.11 | LN: NSPTOC2 Name: PTOC (ED1)..... | 135 |
| 6.2.12 | LN: PDNSPTOC1 Name: PTOC (ED1)..... | 136 |
| 6.2.13 | LN: T1PTTR1 Name: PTTR (ED1)..... | 136 |
| 6.2.14 | LN: INRPHAR1 Name: PHAR (ED1)..... | 137 |
| 6.2.15 | LN: CCBRBRF1 Name: RBRF (ED1)..... | 138 |
| 6.2.16 | LN: TRPPTRC1 Name: PTRC (ED1)..... | 139 |
| 6.2.17 | LN: TRPPTRC2 Name: PTRC (ED1) | 140 |
| 6.2.18 | LN: TCSSCBR1 Name: SCBR (ED1)..... | 140 |
| 6.2.19 | LN: TCSSCBR2 Name: SCBR (ED1)..... | 141 |
| 6.2.20 | LN: TPGAPC1 Name: GAPC (ED1)..... | 141 |
| 6.2.21 | LN: TPGAPC2 Name: GAPC (ED1)..... | 141 |
| 6.2.22 | LN: TPGAPC3 Name: GAPC (ED1)..... | 142 |
| 6.2.23 | LN: TPGAPC4 Name: GAPC (ED1)..... | 142 |
| 6.2.24 | LN: TPGAPC5 Name: GAPC (ED1)..... | 142 |
| 6.2.25 | LN: TPGAPC6 Name: GAPC (ED1)..... | 143 |
| 6.2.26 | LN: TPGAPC7 Name: GAPC (ED1)..... | 143 |
| 6.2.27 | LN: TPGAPC8 Name: GAPC (ED1)..... | 143 |
| 6.2.28 | LN: TPGAPC9 Name: GAPC (ED1)..... | 144 |
| 6.2.29 | LN: TPGAPC10 Name: GAPC (ED1)..... | 144 |
| 6.2.30 | LN: ESMGAPC1 Name: GAPC (ED1)..... | 144 |
| 6.2.31 | LN: STTPMSS1 Name: PMSS (ED1)..... | 145 |
| 6.2.32 | LN: PREVPTOC1 Name: PTOC (ED1)..... | 146 |
| 6.2.33 | LN: JAMPTOC1 Name: PTOC (ED1)..... | 146 |
| 6.2.34 | LN: MPTTR1 Name: PTTR (ED1) | 147 |
| 6.2.35 | LN: LOFLPTUC1 Name: PTUC (ED1) | 148 |

| | | |
|--------|-------------------------------------|-----|
| 6.2.36 | LN: PHLPTOC1 Name: PTOC (ED1)..... | 149 |
| 6.2.37 | LN: EFLPTOC1 Name: PTOC (ED1)..... | 150 |
| 6.2.38 | LN: EFHPTOC1 Name: PTOC (ED1)..... | 151 |
| 6.2.39 | LN: MNSPTOC1 Name: PTOC (ED1)..... | 151 |
| 6.2.40 | LN: MNSPTOC2 Name: PTOC (ED1)..... | 152 |
| 6.2.41 | LN: PHPTUV1 Name: PTUV (ED1)..... | 153 |
| 6.2.42 | LN: PHPTUV2 Name: PTUV (ED1)..... | 154 |
| 6.2.43 | LN: PHPTUV3 Name: PTUV (ED1)..... | 155 |
| 6.2.44 | LN: PHPTOV1 Name: PTOV (ED1)..... | 157 |
| 6.2.45 | LN: PHPTOV2 Name: PTOV (ED1)..... | 158 |
| 6.2.46 | LN: PHPTOV3 Name: PTOV (ED1)..... | 159 |
| 6.2.47 | LN: ROVPTOV1 Name: PTOV (ED1)..... | 160 |
| 6.2.48 | LN: ROVPTOV2 Name: PTOV (ED1)..... | 160 |
| 6.2.49 | LN: ROVPTOV3 Name: PTOV (ED1)..... | 161 |
| 6.2.50 | LN: PSPTUV1 Name: PTUV (ED1)..... | 161 |
| 6.2.51 | LN: PSPTUV2 Name: PTUV (ED1)..... | 162 |
| 6.2.52 | LN: NSPTOV1 Name: PTOV (ED1)..... | 163 |
| 6.2.53 | LN: NSPTOV2 Name: PTOV (ED1)..... | 163 |
| 6.2.54 | LN: FRPTRC1 Name: PTRC (ED1)..... | 164 |
| 6.2.55 | LN: FRPTRC2 Name: PTRC (ED1)..... | 164 |
| 6.2.56 | LN: VMMXU2 Name: MMXU (ED1)..... | 165 |
| 6.2.57 | LN: VAVMMXU2 Name: MMXU (ED1)..... | 165 |
| 6.2.58 | LN: PHHPTOC1 Name: PTOC (ED1)..... | 166 |
| 6.2.59 | LN: PHHPTOC2 Name: PTOC (ED1)..... | 167 |
| 6.2.60 | LN: DEFHPTOC1 Name: PTOC (ED1)..... | 168 |
| 6.2.61 | LN: DEFLPTOC1 Name: PTOC (ED1)..... | 169 |
| 6.2.62 | LN: DEFLPTOC2 Name: PTOC (ED1)..... | 170 |
| 6.2.63 | LN: INTRPTEF1 Name: PTEF (ED1)..... | 171 |
| 6.2.64 | LN: EFLPTOC2 Name: PTOC (ED1)..... | 172 |
| 6.2.65 | LN: EFIPTOC1 Name: PTOC (ED1)..... | 173 |
| 6.2.66 | LN: DPHLPTOC1 Name: PTOC (ED1)..... | 173 |
| 6.2.67 | LN: DPHLPTOC2 Name: PTOC (ED1)..... | 174 |
| 6.2.68 | LN: DPHHPTOC1 Name: PTOC (ED1)..... | 175 |
| 6.2.69 | LN: PEAVMMXU1 Name: MMXU (ED1)..... | 176 |
| 6.2.70 | LN: PEMAMMXU1 Name: MMXU (ED1)..... | 177 |
| 6.2.71 | LN: PEMIMMXU1 Name: MMXU (ED1)..... | 177 |
| 6.2.72 | LN: IL1TCTR1 Name: TCTR (ED1)..... | 178 |
| 6.2.73 | LN: RESTCTR1 Name: TCTR (ED1)..... | 178 |
| 6.2.74 | LN: RESTVTR1 Name: TVTR (ED1)..... | 179 |
| 6.2.75 | LN: RESVMMXU1 Name: MMXU (ED1)..... | 179 |
| 6.2.76 | LN: RVAVMMXU1 Name: MMXU (ED1)..... | 180 |
| 6.2.77 | LN: RVMAMMXU1 Name: MMXU (ED1)..... | 180 |
| 6.2.78 | LN: RVMIMMXU1 Name: MMXU (ED1)..... | 181 |
| 6.2.79 | LN: UL1TVTR1 Name: TVTR (ED1)..... | 181 |
| 6.2.80 | LN: VMMXU1 Name: MMXU (ED1)..... | 181 |
| 6.2.81 | LN: VAVMMXU1 Name: MMXU (ED1)..... | 182 |
| 6.2.82 | LN: DARREC1 Name: RREC (ED1)..... | 182 |
| 6.2.83 | LN: LLN0 Name: LLN0 (ED1)..... | 188 |

| | | |
|----------|---|------------|
| 6.2.84 | LN: CBCSWI1 Name: CSWI (ED1) | 189 |
| 7 | Common Data Class Extensions | 190 |
| 7.1 | New common data classes | 190 |
| 7.2 | Extented data classes ED1..... | 190 |
| 7.2.1 | ABBIED600_Rev5_ENG_SP_DNPPort_ED2 | 190 |
| 7.2.2 | ABBIED600_Rev3_SPG_SP_authority_ED2 | 190 |
| 7.2.3 | ABBIED600_Rev4_SPS_LocClk_ED2..... | 190 |
| 7.2.4 | ABBIED600_Rev4_ING_SG_Unit..... | 191 |
| 7.2.5 | ABBIED600_Rev4_ING_SP_Unit | 191 |
| 7.2.6 | ABBIED600_Rev3_ENG_SP_CommPort_ED2..... | 191 |
| 7.2.7 | ABBIED600_Rev5_ENG_SP_I5CPort_ED2..... | 191 |
| 7.2.8 | ABBIED600_Rev5_ENC_mod_control_ED2 | 192 |
| 7.2.9 | ABBIED600_Rev5_ENC_Mod_OnTestblockedOff_FD_ED2 .19 2 | 192 |
| 7.2.10 | ABBIED600_Rev5_ENC_Mod_OnTestOff__ED2 | 192 |
| 7.2.11 | ABBIED600_Rev5_ENC_Mod_OnTest_ED2 | 193 |
| 7.2.12 | ABBIED600_Rev5_ENC_Mod_OnOff_FD_ED2..... | 193 |
| 7.2.13 | ABBIED600_Rev5_ENC_Mod_OnOff_ED2 | 193 |
| 7.2.14 | ABBIED600_Rev4_ENC_Mod_On_Blk_ED2 | 193 |
| 7.2.15 | ABBIED600_Rev11_INS_error | 194 |
| 7.2.16 | ABBIED600_Rev11_ENS_error..... | 194 |
| 7.2.17 | ABBIED600_Rev3_INS_Unit | 194 |
| 7.2.18 | ABB_REX615_IINS_Auth_Pwd_1 | 194 |
| 7.2.19 | ABBIED600_Rev8_LPL_LD0_LNN0_ED2 | 195 |
| 7.2.20 | ABBIED600_Rev3_LPL_mms..... | 195 |
| 7.2.21 | ABBIED600_Rev7_LPL_MBS_ED2..... | 195 |
| 7.2.22 | ABBIED600_Rev5_LPL_tms_ED2..... | 196 |
| 7.2.23 | ABBIED600_Rev5_LPL_LD0_LINF_ED2 | 196 |
| 7.2.24 | ABBIED600_Rev5_LPL_LD0_LTIM..... | 196 |
| 7.2.25 | ABBIED600_Rev2_LPL_LD0_LDEV_ED2 | 197 |
| 7.2.26 | ABBIED600_Rev2_LPL_1tsg_setCal | 198 |
| 7.2.27 | ABBIED600_Rev6_DPL_ied | 198 |
| 7.2.28 | ABBIED600_Rev8_DPL_eeprom_2_ED2 | 198 |
| 7.2.29 | ABBIED600_Rev5_DPL_eeprom_1_ED2 | 199 |
| 7.2.30 | ABBIED600_Rev4_DPC_simple | 199 |
| 7.2.31 | ABBIED600_Rev8_DPC_control | 199 |
| 7.2.32 | ABBIED600_Rev1_LPL_RSS | 200 |
| 8 | Enum type extensions | 201 |
| 8.1 | New Enum types | 201 |
| 8.1.1 | ABBIED600_Rev1_CtlModelKind_StatusDirect..... | 201 |
| 8.1.2 | ABBIED600_Rev1_OpModSG | 201 |
| 8.1.3 | ABBIED600_Rev1_CpySG | 201 |
| 8.1.4 | ABBIED600_Rev1_CtlModelKind_Status | 201 |
| 8.1.5 | ABBIED600_Rev1_BlkMod | 201 |
| 8.1.6 | ABBIED600_Rev1_HzSet | 201 |
| 8.1.7 | ABBIED600_Rev1_PhRotSet | 202 |

| | | |
|--------|---------------------------------------|-----|
| 8.1.8 | ABBIED600_Rev1_PhOrdSet..... | 202 |
| 8.1.9 | ABBIED600_Rev1_DmdAvMod | 202 |
| 8.1.10 | ABBIED600_Rev1_dmdltrv..... | 202 |
| 8.1.11 | ABBIED600_Rev1_ModRemCtl..... | 202 |
| 8.1.12 | ABBIED600_Rev4_Languages | 202 |
| 8.1.13 | ABBIED600_Rev4_LanguageFiles | 203 |
| 8.1.14 | ABBIED600_Rev1_FormatTime | 204 |
| 8.1.15 | ABBIED600_Rev1_FormatDate | 204 |
| 8.1.16 | ABBIED600_Rev1_NamingConvention | 205 |
| 8.1.17 | ABBIED600_Rev3_DefaultView..... | 205 |
| 8.1.18 | ABBIED600_Rev1_WhmiMod..... | 205 |
| 8.1.19 | ABBIED600_Rev1_SLDSymbolFormat | 205 |
| 8.1.20 | ABBIED600_Rev1_InUseMod | 205 |
| 8.1.21 | ABBIED600_Rev1_SetVsb | 205 |
| 8.1.22 | ABBIED600_Rev8_AuthAcs | 205 |
| 8.1.23 | ABBIED600_Rev1_AuthAcsLev..... | 206 |
| 8.1.24 | ABBIED600_Rev1_AlmLedSt | 206 |
| 8.1.25 | ABBIED600_Rev2_LedMode | 206 |
| 8.1.26 | ABBIED600_Rev2_LedColor | 207 |
| 8.1.27 | ABBIED600_Rev5_SyncSrc | 207 |
| 8.1.28 | ABBIED600_Rev3_TmSrc | 207 |
| 8.1.29 | ABBIED600_Rev1_PTPTmSrc | 208 |
| 8.1.30 | ABBIED600_Rev1_PTPClkAcc..... | 208 |
| 8.1.31 | ABBIED600_Rev1_PTPAnncMod..... | 208 |
| 8.1.32 | ABBIED600_Rev2_MeasMod | 208 |
| 8.1.33 | ABBIED600_Rev2_StrPhSel..... | 209 |
| 8.1.34 | ABBIED600_Rev1_buTripMode | 209 |
| 8.1.35 | ABBIED600_Rev1_StrLtcMod | 209 |
| 8.1.36 | ABBIED600_Rev1_TrOutMod | 209 |
| 8.1.37 | ABBIED600_Rev1_OutConn | 209 |
| 8.1.38 | ABBIED600_Rev1_OpModStUp | 210 |
| 8.1.39 | ABBIED600_Rev2_TestProKind | 210 |
| 8.1.40 | ABBIED600_Rev1_EnvTmpMod | 213 |
| 8.1.41 | ABBIED600_Rev1_AResSigSel..... | 213 |
| 8.1.42 | ABBIED600_Rev2_VSel | 213 |
| 8.1.43 | ABBIED600_Rev1_TypTmRs | 213 |
| 8.1.44 | ABBIED600_Rev1_VResSigSel..... | 214 |
| 8.1.45 | ABBIED600_Rev1_OpModProHz | 214 |
| 8.1.46 | ABBIED600_Rev1_DefHzSel..... | 214 |
| 8.1.47 | ABBIED600_Rev1_OpModEF | 214 |
| 8.1.48 | ABBIED600_Rev2_OpModTEF | 214 |
| 8.1.49 | ABBIED600_Rev1_DirMod2 | 214 |
| 8.1.50 | ABBIED600_Rev1_ARtgSec..... | 215 |
| 8.1.51 | ABBIED600_Rev2_ConnType | 215 |
| 8.1.52 | ABBIED600_Rev1_AnInpType | 215 |
| 8.1.53 | ABBIED600_Rev1_FibMod | 215 |
| 8.1.54 | ABBIED600_Rev1_SerMod | 215 |
| 8.1.55 | ABBIED600_Rev1_BaudRate..... | 215 |

| | | |
|----------|--|------------|
| 8.1.56 | ABBIED600_Rev2_EthPortMod..... | 216 |
| 8.1.57 | ABBIED600_Rev1_RecOp..... | 216 |
| 8.1.58 | ABBIED600_Rev1_TermPrio | 216 |
| 8.1.59 | ABBIED600_Rev1_ProCrdMod | 216 |
| 8.1.60 | ABBIED600_Rev1_AutoIniCnd | 216 |
| 8.1.61 | ABBIED600_Rev3_TestCtlKind | 216 |
| 8.1.62 | ABBIED600_Rev3_CmdRsp..... | 218 |
| 8.1.63 | ABBIED600_Rev3_LocKeyHMI | 218 |
| 8.1.64 | ABBIED600_Rev1_LocRemMod | 219 |
| 8.1.65 | ABBIED600_Rev1_StaLevSet | 219 |
| 8.1.66 | ABBIED600_Rev1_EStoRte | 219 |
| 8.1.67 | ABBIED600_Rev1_EStoMod | 219 |
| 8.1.68 | ABBIED600_Rev4_RadrChNum..... | 219 |
| 8.2 | Extented Enum types..... | 221 |
| 8.2.1 | ABBIED600_Rev1_HealthKind | 221 |
| 8.2.2 | ABBIED600_Rev1_PhaseFaultDirectionKind | 221 |
| 8.2.3 | ABBIED600_Rev20_TstOutKind..... | 221 |
| 8.2.4 | ABBIED600_Rev1_CurveCharKind | 227 |
| 8.2.5 | ABBIED600_Rev32_ProFcn | 229 |
| 8.2.6 | ABBIED600_Rev1_PolarizingQuantityKind | 234 |
| 9 | Control Block Extensions | 235 |

1 About this manual

1.1 Read it first!

Before attempting any operation with IED from 611 series, read carefully the IED documentation first.

This document is addressed to anyone who needs to interact with 611 series and its IEC 61850 features in more detail.

1.2 Document information

Revision History

| Revision | Date | Note |
|----------|--------------|-----------------|
| A | 16 Sep. 2011 | 611 series v1.0 |
| B | 11 Sep 2015 | 611 series v2.0 |

Applicability

This manual is applicable to all 611 series Protection and Control IED versions mentioned in document Revision History above or newer versions if document update is not required.

1.3 Safety Information

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

Safety warning

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



Do not make any changes to the 611 SERIES configurations unless you are familiar with the 611 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 iode |
| MAC | M edia A ccess C ontrol |
| MICS | M odel I mplementation C onformance S tatement |
| MMS | M anufacturing M essage S pecification |
| M/O | M andatory/ O ptional |
| N | N o |
| PICS | P rotocol I mplementation C onformance S tatement |
| PIXIT | P rotocol I mplementation eXtra I nformation for T esting |
| SCADA | S upervision, C ontrol a nd D ata A cquisition |
| SLD | S ingle L ine D iagram |
| XML | eXtensible M arkup L anguage |
| Y | Y es |

2.2 Definitions

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

3 References

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

4 Introduction

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

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

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

5 Logical Nodes List

| L: System logical nodes | | |
|--|---------------|------------------------------|
| LLN0 | LD0.LLN0 | Protection LLN0 |
| | CTRL.LLN0 | Control LLN0 |
| | DR.LLN0 | DR LLN0 |
| 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.MBSLPRT1 | Modbus |
| | LD0.MBSLPRT2 | Modbus |
| | LD0.MBSLPRT3 | Modbus |
| | LD0.MBSLPRT4 | Modbus |
| | LD0.MBSLPRT5 | Modbus |
| 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 |
| C: Logical nodes for control | | |
| CILO | CTRL.CBCILO1 | CBXCBR1,I<->O CB(1) |
| CSWI | CTRL.CBCSWI1 | CBXCBR1,I<->O CB(1) |
| G: Logical Nodes for generic references | | |
| GSAL | LD0.GSAL1 | Security application |
| GGIO | LD0.LEDGGIO1 | Programmable LEDs |
| | LD0.XGGIO100 | X100 (PSM) |
| | LD0.XGGIO120 | X120 (AIM) |
| | LD0.XAGGIO130 | X130 (AIM) |
| | LD0.XGGIO130 | X130 (BIO) |
| | LD0.XGGIO90 | X000 (COM) |
| GAPC | LD0.TPGAPC1 | TPGAPC1,TP(1) |
| | LD0.TPGAPC2 | TPGAPC2,TP(2) |
| | LD0.TPGAPC3 | TPGAPC3,TP(3) |
| | LD0.TPGAPC4 | TPGAPC4,TP(4) |
| | LD0.TPGAPC5 | TPGAPC5,TP(5) |

| | | |
|--|---------------|-----------------------|
| | LD0.TPGAPC6 | TPGAPC6,TP(6) |
| | LD0.TPGAPC7 | TPGAPC7,TP(7) |
| | LD0.TPGAPC8 | TPGAPC8,TP(8) |
| | LD0.TPGAPC9 | TPGAPC9,TP(9) |
| | LD0.TPGAPC10 | TPGAPC10,TP(10) |
| | LD0.MVGAPC1 | MVGAPC1,MV(1) |
| | LD0.ISWGAPC1 | ISWGAPC1,ISWGAPC(1) |
| | LD0.ISWGAPC2 | ISWGAPC2,ISWGAPC(2) |
| | LD0.ISWGAPC3 | ISWGAPC3,ISWGAPC(3) |
| | LD0.ISWGAPC4 | ISWGAPC4,ISWGAPC(4) |
| | LD0.ISWGAPC5 | ISWGAPC5,ISWGAPC(5) |
| | LD0.ISWGAPC6 | ISWGAPC6,ISWGAPC(6) |
| | LD0.ISWGAPC7 | ISWGAPC7,ISWGAPC(7) |
| | LD0.ISWGAPC8 | ISWGAPC8,ISWGAPC(8) |
| | LD0.ISWGAPC9 | ISWGAPC9,ISWGAPC(9) |
| | LD0.ISWGAPC10 | ISWGAPC10,ISWGAPC(10) |
| | LD0.OSWGAPC1 | OSWGAPC1,OSWGAPC(1) |
| | LD0.OSWGAPC2 | OSWGAPC2,OSWGAPC(2) |
| | LD0.OSWGAPC3 | OSWGAPC3,OSWGAPC(3) |
| | LD0.OSWGAPC4 | OSWGAPC4,OSWGAPC(4) |
| | LD0.OSWGAPC5 | OSWGAPC5,OSWGAPC(5) |
| | LD0.OSWGAPC6 | OSWGAPC6,OSWGAPC(6) |
| | LD0.OSWGAPC7 | OSWGAPC7,OSWGAPC(7) |
| | LD0.OSWGAPC8 | OSWGAPC8,OSWGAPC(8) |
| | LD0.OSWGAPC9 | OSWGAPC9,OSWGAPC(9) |
| | LD0.OSWGAPC10 | OSWGAPC10,OSWGAPC(10) |
| | LD0.OSWGAPC11 | OSWGAPC11,OSWGAPC(11) |
| | LD0.OSWGAPC12 | OSWGAPC12,OSWGAPC(12) |
| | LD0.OSWGAPC13 | OSWGAPC13,OSWGAPC(13) |
| | LD0.OSWGAPC14 | OSWGAPC14,OSWGAPC(14) |
| | LD0.OSWGAPC15 | OSWGAPC15,OSWGAPC(15) |
| | LD0.OSWGAPC16 | OSWGAPC16,OSWGAPC(16) |
| | LD0.OSWGAPC17 | OSWGAPC17,OSWGAPC(17) |
| | LD0.OSWGAPC18 | OSWGAPC18,OSWGAPC(18) |
| | LD0.OSWGAPC19 | OSWGAPC19,OSWGAPC(19) |
| | LD0.OSWGAPC20 | OSWGAPC20,OSWGAPC(20) |
| | LD0.SELGAPC1 | SELGAPC1,SELGAPC(1) |
| | LD0.SELGAPC2 | SELGAPC2,SELGAPC(2) |
| | LD0.SELGAPC3 | SELGAPC3,SELGAPC(3) |
| | LD0.SELGAPC4 | SELGAPC4,SELGAPC(4) |
| | LD0.SELGAPC5 | SELGAPC5,SELGAPC(5) |
| | LD0.SELGAPC6 | SELGAPC6,SELGAPC(6) |

| | | |
|---|---------------|---------------------------------|
| | LD0.ESMGAPC1 | ESMGAPC1,ESTART(1) |
| | LD0.TPSGAPC1 | TPSGAPC1,TPS(1) |
| I:Logical Nodes for archiving | | |
| IHMI | LD0.IHMI1 | Device |
| M:Logical Nodes for metering and measurement | | |
| MMXU | LD0.CMMXU1 | CMMXU1,3I(1) |
| | LD0.CAVMMXU1 | CMMXU1,3I(1) |
| | LD0.CMAMMXU1 | CMMXU1,3I(1) |
| | LD0.CMIMMXU1 | CMMXU1,3I(1) |
| | LD0.RESCMMXU1 | RESCMMXU1,In(1),Io(1) |
| | LD0.RCAVMMXU1 | RESCMMXU1,In(1),Io(1) |
| | LD0.RCMAMMXU1 | RESCMMXU1,In(1),Io(1) |
| | LD0.RCMIMMXU1 | RESCMMXU1,In(1),Io(1) |
| | LD0.FMMXU1 | FMMXU1,f(1) |
| | LD0.VMMXU2 | VMMXU2,3V(2),3U(2) |
| | LD0.VAVMMXU2 | VMMXU2,3V(2),3U(2) |
| | LD0.PEMMXU1 | PEMMXU1,P,E(1) |
| | LD0.PEAVMMXU1 | PEMMXU1,P,E(1) |
| | LD0.PEMAMMXU1 | PEMMXU1,P,E(1) |
| | LD0.PEMIMMXU1 | PEMMXU1,P,E(1) |
| | LD0.RESVMMXU1 | RESVMMXU1,Vn(1),Uo(1) |
| | LD0.RVAVMMXU1 | RESVMMXU1,Vn(1),Uo(1) |
| | LD0.RVMAMMXU1 | RESVMMXU1,Vn(1),Uo(1) |
| | LD0.RVMIMMXU1 | RESVMMXU1,Vn(1),Uo(1) |
| | LD0.VMMXU1 | VMMXU1,3V(1),3U(1) |
| | LD0.VAVMMXU1 | VMMXU1,3V(1),3U(1) |
| MSQI | LD0.CSMSQI1 | CSMSQI1,I1,I2,I0(1) |
| | LD0.VSMSQI1 | VSMSQI1,V1,V2,V0(1),U1,U2,U0(1) |
| MMTR | LD0.PEMMTR1 | PEMMXU1,P,E(1) |
| P:Logical Nodes for protection functions | | |
| PTOC | 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.PHLPTOC1 | PHLPTOC1,51P-1(1),3I>(1) |
| | LD0.EFLPTOC1 | EFLPTOC1,51N-1(1),Io>(1) |
| | LD0.EFHPTOC1 | EFHPTOC1,51N-2(1),Io>>(1) |
| | LD0.MNSPTOC1 | MNSPTOC1,46M(1),I2>M(1) |
| | LD0.MNSPTOC2 | MNSPTOC2,46M(2),I2>M(2) |
| | LD0.PHHPTOC1 | PHHPTOC1,51P-2(1),3I>>(1) |

| | | |
|------|---------------|--------------------------------------|
| | LD0.PHHPTOC2 | PHHPTOC2,51P-2(2),3I>>(2) |
| | LD0.DEFHPTOC1 | DEFHPDEF1,67N-2(1),Io>>->(1) |
| | LD0.DEFLPTOC1 | DEFLPDEF1,67N-1(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.DPHLPTOC1 | DPHLPDOC1,67-1(1),3I>->(1) |
| | LD0.DPHLPTOC2 | DPHLPDOC2,67-1(2),3I>->(2) |
| | LD0.DPHHPTOC1 | DPHHPDOC1,67-2(1),3I>>->(1) |
| PTTR | LD0.T1PTTR1 | T1PTTR1,49F(1),3Ith>F(1) |
| | LD0.MPTTR1 | MPTTR1,49M(1),3Ith>M(1) |
| PHAR | LD0.INRPHAR1 | INRPHAR1,68(1),3I2f>(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.FRPTRC1 | FRPFRQ1,81(1),f>/f |
| | LD0.FRPTRC2 | FRPFRQ2,81(2),f>/f |
| PSOF | LD0.CBPSOF1 | CBPSOF1,SOTF(1) |
| 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) |
| Pdif | LD0.HIAPDIF1 | HIAPDIF1,87A(1),dHi_A>(1) |
| | LD0.HIBPDIF1 | HIBPDIF1,87B(1),dHi_B>(1) |
| | LD0.HICPDIF1 | HICPDIF1,87C(1),dHi_C>(1) |
| 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) |
| 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) |
| PTOF | LD0.FRPTOF1 | FRPFRQ1,81(1),f>/f |
| | LD0.FRPTOF2 | FRPFRQ2,81(2),f>/f |
| PTUF | LD0.FRPTUF1 | FRPFRQ1,81(1),f>/f |
| | LD0.FRPTUF2 | FRPFRQ2,81(2),f>/f |
| PFRC | LD0.FRPFRC1 | FRPFRQ1,81(1),f>/f |

| | | |
|---|--------------|-------------------------------------|
| | LD0.FRPFRC2 | FRPFRQ2,81(2),f>/f |
| PTEF | LD0INTRPTEF1 | INTRPTEF1,67NIEF(1),Io>->IEF(1) |
| R:Logical nodes for protection related functions | | |
| RBRF | LD0CCBRBRF1 | CCBRBRF1,51BF/51NBF(1),3I>/Io>BF(1) |
| RFRC | LD0FLTRFRC1 | FLTRFRC1,FaultRec1 |
| RDIR | LD0DEFHRDIR1 | DEFHPDEF1,67N-2(1),Io>>->(1) |
| | LD0DEFLRDIR1 | DEFLPDEF1,67N-1(1),Io>>-(1) |
| | LD0DEFLRDIR2 | DEFLPDEF2,67N-1(2),Io>>-(2) |
| | LD0DPHLRDIR1 | DPHLPDOC1,67-1(1),3I>->(1) |
| | LD0DPHLRDIR2 | DPHLPDOC2,67-1(2),3I>->(2) |
| | LD0DPHHRDIR1 | DPHHPDOC1,67-2(1),3I>>->(1) |
| RREC | LD0DARREC1 | DARREC1,79(1),O->I(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) |
| SOPT | LD0.MDSOPT1 | MDSOPT1,OPTM(1),OPTS(1) |
| SPVC | LD0.HZCCASPVC1 | HZCCASPVC1,MCS I_A(1) |
| | LD0.HZCCBSPVC1 | HZCCBSPVC1,MCS I_B(1) |
| | LD0.HZCCCSPVC1 | HZCCCSPVC1,MCS I_C(1) |
| T:Logical nodes for instrument transformers and sensors | | |
| TCTR | LD0.IL1TCTR1 | Current (3I,CT) |
| | LD0.IL2TCTR1 | Current (3I,CT) |
| | LD0.IL3TCTR1 | Current (3I,CT) |
| | LD0.RESTCTR1 | Current (Io,CT) |
| TVTR | LD0.RESTVTR1 | Voltage (Uo,VT) |
| | LD0.UL1TVTR1 | Voltage (3U,VT) |
| | LD0.UL2TVTR1 | Voltage (3U,VT) |
| | LD0.UL3TVTR1 | Voltage (3U,VT) |
| X:Logical Nodes for switchgear | | |
| XCBR | CTRL.CBXCBR1 | CBXCBR1,I<->O CB(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_Rev5_LPL_LD0_LINF_ED2_e | Name plate | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| BayNam | ABBIED600_Rev3_VSG_2_20_e | Name of the bay | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| CfgNam | ABBIED600_Rev2_VSG_1_20_e | IED configuration name | E | REx615 MICS:2014>IEC 61850-7-4:2003 |

| | | | | |
|------------|------------------------------------|------------------------|---|-------------------------------------|
| DevRev | ABBIED600_Rev2_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_Rev3_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_Rev8_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_Rev3_VSG_2_20_e | IP address for rear port(s) | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| IPAddrSub-Ntw | ABBIED600_Rev3_VSG_2_20_e | Subnet mask for rear port(s) | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| IPAddrGtw | ABBIED600_Rev3_VSG_2_20_e | Default gateway for rear port(s) | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| IPAddrFrt | ABBIED600_Rev2_VSG_1_20_e | IP address for front port (fixed) | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| Mac1 | ABBIED600_Rev2_VSG_1_20_e | Mac address for rear port(s) | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| Mac2 | ABBIED600_Rev2_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 reset detected | | |
| DevWrn | ABBIED600_Rev7_ENS_warning | Warning | | |
| DevFail | ABBIED600_Rev11_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 |
| FailTest | ABBIED600_Rev2_SPC_control_e | Internal fault test | 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,order code dependent |
| 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,order code dependent |
| ModRemCtl | ABBIED600_Rev2_ENG_SP_ModRemCtrl_e | Authority for remote activation of test mode | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| LangSel | ABBIED600_Rev5_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 | Backlight 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 |
| ConnExpTm | 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_SLDSymbolFormat_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: 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 |
| AuthAcsVw | ABBIED600_Rev10_ENS_AuthAcs_e | Viewer access | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| AuthAcsOpr | ABBIED600_Rev10_ENS_AuthAcs_e | Operator access | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| AuthAcsEng | ABBIED600_Rev10_ENS_AuthAcs_e | Engineer access | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| AuthAcsAdm | 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_Acces- sAdmW_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 |

6.1.4 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 |

6.1.5 LN: MMSLVRT1 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 | | |

6.1.6 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 | ABBIED600_Rev6_ENG_SP_SyncSrc_e | Time source setting ("1588" in case the time source is a IEEE 1588 source or dotted IP-address) | E | 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 | ABBIED600_Rev2_ENS_PTPTmSrc_e | GrandMaster timeSource enum according to PTPv2 | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| PTPClkAcc | ABBIED600_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_Rev2_VSG_1_20_e | Grandmaster Identity octet string according to PTPv2 | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| IPAd-drSNTP1 | ABBIED600_Rev3_VSG_2_20_e | IP address for SNTP primary server | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| IPAd-drSNTP2 | ABBIED600_Rev3_VSG_2_20_e | IP address for SNTP secondary server | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| PTPAnc-Mod | AB-BIED600_Rev1_ENC_SP_PTPAnc-Mod_e | PTP Announce Mode | E | REx615 MICS:2014>IEC 61850-7-4:2003 |

6.1.7 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_SP | DST in use 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_Rev3_VSG_2_20_e | System time | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| DateSys | ABBIED600_Rev3_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 |

6.1.8 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 |

6.1.9 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 |
|--------|---------------------------|---------------------------|---|-------------------------------------|

6.1.10 LN: CBPSOF1 Name: PSOF (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 | 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 | | |
| InCBCls | 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 |

6.1.11 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 | | |

6.1.12 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 | | |

6.1.13 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 | | |

6.1.14 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 | | |

6.1.15 LN: TPGAPC5 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 | | |

6.1.16 LN: TPGAPC6 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 | | |

6.1.17 LN: TPGAPC7 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 | | |

6.1.18 LN: TPGAPC8 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 | | |

6.1.19 LN: TPGAPC9 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 | | |

6.1.20 LN: TPGAPC10 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 | | |

6.1.21 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: FLTRFRC1 Name: RFRC (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 |
| 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 | AB-BIED600_Rev2_ENG_SP_TrgSet | Triggering mode | | |
| AMeasMod | AB-BIED600_Rev3_ENG_SP_Meas-Mod | A measurement mode | | |
| ProFcn | ABBIED600_Rev26_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 | | |

6.1.23 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 |

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|-----------|-------------------------|------------------------------|---|-------------------------------------|
| 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 |

6.1.24 LN: ISWGAPC2 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 | 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 |

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|-----------|-------------------------|------------------------------|---|-------------------------------------|
| 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 |

6.1.25 LN: ISWGAPC3 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 |

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|-----------|-------------------------|------------------------------|---|-------------------------------------|
| 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 |

6.1.26 LN: ISWGAPC4 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 |

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|-----------|-------------------------|------------------------------|---|-------------------------------------|
| 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 |

6.1.27 LN: ISWGAPC5 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 |

6.1.28 LN: ISWGAPC6 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 |

6.1.29 LN: ISWGAPC7 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 |

6.1.30 LN: ISWGAPC8 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 |

6.1.31 LN: ISWGAPC9 Name: GPC (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 |

6.1.32 LN: ISWGAPC10 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 |

6.1.33 LN: OSWGAPC1 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 | 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 |

6.1.34 LN: OSWGAPC2 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 | 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 |

6.1.35 LN: OSWGAPC3 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 | 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 |

6.1.36 LN: OSWGAPC4 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 | 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 |

6.1.37 LN: OSWGAPC5 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 | 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 |

6.1.38 LN: OSWGAPC6 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 | 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 |

6.1.39 LN: OSWGAPC7 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 | 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 |

6.1.40 LN: OSWGAPC8 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 | 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 |

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|-----------|-------------------------|--------------------|---|-------------------------------------|
| 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 |

6.1.41 LN: OSWGAPC9 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 | 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 |

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|-----------|-------------------------|--------------------|---|-------------------------------------|
| 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 |

6.1.42 LN: OSWGAPC10 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 |

6.1.43 LN: OSWGAPC11 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 | 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 |

6.1.44 LN: OSWGAPC12 Name: GAPP (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 |

6.1.45 LN: OSWGAPC13 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 | 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 |

6.1.46 LN: OSWGAPC14 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 |

6.1.47 LN: OSWGAPC15 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 |

6.1.48 LN: OSWGAPC16 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 | 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 |

6.1.49 LN: OSWGAPC17 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 |

6.1.50 LN: OSWGAPC18 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 | 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 |

6.1.51 LN: OSWGAPC19 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 |

6.1.52 LN: OSWGAPC20 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 | 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 |

6.1.53 LN: SELGAPC1 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 | 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 |

6.1.54 LN: SELGAPC2 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 | 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 |

6.1.55 LN: SELGAPC3 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 | 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 |

6.1.56 LN: SELGAPC4 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 | 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 |

6.1.57 LN: SELGAPC5 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 | 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 |

6.1.58 LN: SELGAPC6 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 | 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 |

6.1.59 LN: MDSOPT1 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 | 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 |

6.1.60 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 |
|--------|---------------------------|--------------------|---|-------------------------------------|

6.1.61 LN: HIAPDIF1 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_Rev2_ENC_TestPro_e | Test control for outputs | E | REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security |

6.1.62 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 | | |
| 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 | 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 |

6.1.63 LN: HICPDIF1 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 | | |
| 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 | 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 |

6.1.64 LN: HZCCASPVC1 Name: SPVC (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 |
| 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_Rev3_ENG_SP_Meas-Mod | Selects used measurement mode | | |
| AlmOutMod | ABBIED600_Rev2_ENG_SP_TrOut-Mod | Select the operation mode for alarm output | | |
| LORs | ABBIED600_Rev2_SPC_control | Reset lockout alarm | | status-only,direct-with-normal-security |

6.1.65 LN: HZCCBSPVC1 Name: SPVC (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 |
| 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_Rev3_ENG_SP_Meas-Mod | Selects used measurement mode | | |
| AlmOutMod | ABBIED600_Rev2_ENG_SP_TrOut-Mod | Select the operation mode for alarm output | | |
| LORs | ABBIED600_Rev2_SPC_control | Reset lockout alarm | | status-only,direct-with-normal-security |

6.1.66 LN: HZCCSPVC1 Name: SPVC (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 |
| 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_Rev3_ENG_SP_MeasMod | 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 |

6.1.67 LN: DEFHRDIR1 Name: RDIR (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 |
| Dir | ABBIED600_Rev1_ACD_simple | Direction | | |
| ChrAng | ABBIED600_Rev3_ASG_SG_i | Characteristic angle | | |
| MinFwdAng | ABBIED600_Rev3_ASG_SG_i | Minimum phase angle in forward direction | | |
| MinRvAng | ABBIED600_Rev3_ASG_SG_i | Minimum phase angle in reverse direction | | |

| | | | | |
|------------|-------------------------------------|--|---|--|
| MaxFwdAng | ABBIED600_Rev3_ASG_SG_i | Maximum phase angle in forward direction | | |
| MaxRvAng | ABBIED600_Rev3_ASG_SG_i | Maximum phase angle in reverse direction | | |
| BlkValA | ABBIED600_Rev3_ASG_SP_i | Minimum operating current | | |
| BlkValV | ABBIED600_Rev3_ASG_SP_i | Minimum operating voltage | | |
| PolQty | ABBIED600_Rev1_ENG_SP_PolQty | Polarizing quantity | | |
| InRcaCtl | ABBIED600_Rev1_SPS_e | Relay characteristic angle control | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| OpModEF | ABBIED600_Rev2_ENG_SG_Op-ModEF_e | Operation criteria | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| CorAng | ABBIED600_Rev3_ASG_SP_i_e | Correction angle | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| RevPol | ABBIED600_Rev1_SPG_SP_e | Rotate polarizing quantity | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| OpAEF | ABBIED600_Rev3_MV_simple_i_e | Operating current for EF protection | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| OpPolAng | ABBIED600_Rev3_MV_simple_i_e | Angle between operating and polarizing quantity | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| OpChrAng | ABBIED600_Rev3_MV_simple_i_e | Angle between operating angle and characteristic angle | 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 |

6.1.68 LN: DEFLRDIR1 Name: RDIR (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 |
| Dir | ABBIED600_Rev1_ACD_simple | Direction | | |
| ChrAng | ABBIED600_Rev3_ASG_SG_i | Characteristic angle | | |
| MinFwdAng | ABBIED600_Rev3_ASG_SG_i | Minimum phase angle in forward direction | | |

| | | | | |
|------------|-------------------------------------|--|---|--|
| MinRvAng | ABBIED600_Rev3_ASG_SG_i | Minimum phase angle in reverse direction | | |
| MaxFwdAng | ABBIED600_Rev3_ASG_SG_i | Maximum phase angle in forward direction | | |
| MaxRvAng | ABBIED600_Rev3_ASG_SG_i | Maximum phase angle in reverse direction | | |
| BlkValA | ABBIED600_Rev3_ASG_SP_i | Minimum operating current | | |
| BlkValV | ABBIED600_Rev3_ASG_SP_i | Minimum operating voltage | | |
| PolQty | ABBIED600_Rev1_ENG_SP_PolQty | Polarizing quantity | | |
| InRcaCtl | ABBIED600_Rev1_SPS_e | Relay characteristic angle control | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| OpModEF | ABBIED600_Rev2_ENG_SG_Op-ModEF_e | Operation criteria | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| CorAng | ABBIED600_Rev3_ASG_SP_i_e | Correction angle | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| RevPol | ABBIED600_Rev1_SPG_SP_e | Rotate polarizing quantity | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| OpAEF | ABBIED600_Rev3_MV_simple_i_e | Operating current for EF protection | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| OpPolAng | ABBIED600_Rev3_MV_simple_i_e | Angle between operating and polarizing quantity | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| OpChrAng | ABBIED600_Rev3_MV_simple_i_e | Angle between operating angle and characteristic angle | 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 |

6.1.69 LN: DEFLRDIR2 Name: RDIR (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 |
| Dir | ABBIED600_Rev1_ACD_simple | Direction | | |
| ChrAng | ABBIED600_Rev3_ASG_SG_i | Characteristic angle | | |

| | | | | |
|------------|-------------------------------------|--|---|--|
| MinFwdAng | ABBIED600_Rev3_ASG_SG_i | Minimum phase angle in forward direction | | |
| MinRvAng | ABBIED600_Rev3_ASG_SG_i | Minimum phase angle in reverse direction | | |
| MaxFwdAng | ABBIED600_Rev3_ASG_SG_i | Maximum phase angle in forward direction | | |
| MaxRvAng | ABBIED600_Rev3_ASG_SG_i | Maximum phase angle in reverse direction | | |
| BlkValA | ABBIED600_Rev3_ASG_SP_i | Minimum operating current | | |
| BlkValV | ABBIED600_Rev3_ASG_SP_i | Minimum operating voltage | | |
| PolQty | ABBIED600_Rev1_ENG_SP_PolQty | Polarizing quantity | | |
| InRcaCtl | ABBIED600_Rev1_SPS_e | Relay characteristic angle control | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| OpModEF | ABBIED600_Rev2_ENG_SG_OpModEF_e | Operation criteria | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| CorAng | ABBIED600_Rev3_ASG_SP_i_e | Correction angle | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| RevPol | ABBIED600_Rev1_SPG_SP_e | Rotate polarizing quantity | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| OpAEF | ABBIED600_Rev3_MV_simple_i_e | Operating current for EF protection | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| OpPolAng | ABBIED600_Rev3_MV_simple_i_e | Angle between operating and polarizing quantity | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| OpChrAng | ABBIED600_Rev3_MV_simple_i_e | Angle between operating angle and characteristic angle | 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 |

6.1.70 LN: DPHLRDIR1 Name: RDIR (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 |
| Dir | AB-BIED600_Rev1_ACD_threephase | Direction | | |

| | | | | |
|---------------|------------------------------|--|---|-------------------------------------|
| ChrAng | ABBIED600_Rev3_ASG_SG_i | Characteristic angle | | |
| MinFwdAng | ABBIED600_Rev3_ASG_SG_i | Minimum phase angle in forward direction | | |
| MinRvAng | ABBIED600_Rev3_ASG_SG_i | Minimum phase angle in reverse direction | | |
| MaxFwdAng | ABBIED600_Rev3_ASG_SG_i | Maximum phase angle in forward direction | | |
| MaxRvAng | ABBIED600_Rev3_ASG_SG_i | Maximum phase angle in reverse direction | | |
| BlkValA | ABBIED600_Rev3_ASG_SP_i | Min operate current | | |
| BlkValV | ABBIED600_Rev3_ASG_SP_i | Min operate voltage | | |
| PolQty | ABBIED600_Rev3_ENG_SG_PolQty | Polarising Quantity | | |
| VMemTmms | ABBIED600_Rev1_ING_SG_e | Voltage memory time | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| Op-ChrAngPhsA | ABBIED600_Rev3_MV_simple_i_e | Calc angle difference phase A | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| Op-ChrAngPhsB | ABBIED600_Rev3_MV_simple_i_e | Calc angle difference phase B | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| Op-ChrAngPhsC | ABBIED600_Rev3_MV_simple_i_e | Calc angle difference phase C | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| VMemUsedSt | ABBIED600_Rev1_SPS_e | Voltage memory in use status | E | REx615 MICS:2014>IEC 61850-7-4:2003 |

6.1.71 LN: DPHLRDIR2 Name: RDIR (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 |
| Dir | ABBIED600_Rev1_ACD_threephase | Direction | | |
| ChrAng | ABBIED600_Rev3_ASG_SG_i | Characteristic angle | | |
| MinFwdAng | ABBIED600_Rev3_ASG_SG_i | Minimum phase angle in forward direction | | |
| MinRvAng | ABBIED600_Rev3_ASG_SG_i | Minimum phase angle in reverse direction | | |
| MaxFwdAng | ABBIED600_Rev3_ASG_SG_i | Maximum phase angle in forward direction | | |
| MaxRvAng | ABBIED600_Rev3_ASG_SG_i | Maximum phase angle in reverse direction | | |
| BlkValA | ABBIED600_Rev3_ASG_SP_i | Min operate current | | |
| BlkValV | ABBIED600_Rev3_ASG_SP_i | Min operate voltage | | |

| | | | | |
|---------------|-------------------------------|-------------------------------|---|-------------------------------------|
| PolQty | AB-BIED600_Rev3_ENG_SG_PolQty | Polarising Quantity | | |
| VMemTmms | ABBIED600_Rev1_ING_SG_e | Voltage memory time | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| Op-ChrAngPhsA | ABBIED600_Rev3_MV_simple_i_e | Calc angle difference phase A | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| Op-ChrAngPhsB | ABBIED600_Rev3_MV_simple_i_e | Calc angle difference phase B | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| Op-ChrAngPhsC | ABBIED600_Rev3_MV_simple_i_e | Calc angle difference phase C | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| VMemUsedSt | ABBIED600_Rev1_SPS_e | Voltage memory in use status | E | REx615 MICS:2014>IEC 61850-7-4:2003 |

6.1.72 LN: DPHHRDIR1 Name: RDIR (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 |
| Dir | AB-BIED600_Rev1_ACD_threephase | DIR | | |
| ChrAng | ABBIED600_Rev3_ASG_SG_i | Characteristic angle | | |
| MinFwdAng | ABBIED600_Rev3_ASG_SG_i | Minimum phase angle in forward direction | | |
| MinRvAng | ABBIED600_Rev3_ASG_SG_i | Minimum phase angle in reverse direction | | |
| MaxFwdAng | ABBIED600_Rev3_ASG_SG_i | Maximum phase angle in forward direction | | |
| MaxRvAng | ABBIED600_Rev3_ASG_SG_i | Maximum phase angle in reverse direction | | |
| BlkValA | ABBIED600_Rev3_ASG_SP_i | Min operate current | | |
| BlkValV | ABBIED600_Rev3_ASG_SP_i | Min operate voltage | | |
| PolQty | AB-BIED600_Rev3_ENG_SG_PolQty | Polarizing quantity | | |
| VMemTmms | ABBIED600_Rev1_ING_SG_e | Voltage memory time | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| Op-ChrAngPhsA | ABBIED600_Rev3_MV_simple_i_e | Calc angle difference phase A | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| Op-ChrAngPhsB | ABBIED600_Rev3_MV_simple_i_e | Calc angle difference phase B | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| Op-ChrAngPhsC | ABBIED600_Rev3_MV_simple_i_e | Calc angle difference phase C | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| VMemUsedSt | ABBIED600_Rev1_SPS_e | Voltage memory in use status | E | REx615 MICS:2014>IEC 61850-7-4:2003 |

6.1.73 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 |
| ARtg | AB-BIED600_Rev3_ASG_SP_ARtg_VRtg | Primary rated current | | |
| Cor | ABBIED600_Rev1_ASG_SP_f | Phase A Current phasor magnitude correction of an external current transformer | | |
| AngCor | ABBIED600_Rev3_ASG_SP_i | Phase A Current phasor angle correction of an external current transformer | | |
| Alm | ABBIED600_Rev1_SPS_e | Alarm | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| Wrn | ABBIED600_Rev1_SPS_e | Warning | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| 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,order code dependent |
| VRtgScyRat | ABBIED600_Rev1_ASG_SP_f_e | Rated Secondary Value | E | REx615 MICS:2014>IEC 61850-7-4:2003,order code dependent |
| RevPol | ABBIED600_Rev1_SPG_SP_e | Reverse polarity | E | REx615 MICS:2014>IEC 61850-7-4:2003 |

6.1.74 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 |
| ARtg | AB-BIED600_Rev3_ASG_SP_ARtg_VRtg | Primary rated current | | |
| Cor | ABBIED600_Rev1_ASG_SP_f | Current phasor magnitude correction of an external current transformer | | |
| AngCor | ABBIED600_Rev3_ASG_SP_i | Residual Current phasor angle correction of an external current transformer | | |

| | | | | |
|---------|---------------------------------|-------------------------|---|---|
| Alm | ABBIED600_Rev1_SPS_e | Alarm | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| Wrn | ABBIED600_Rev1_SPS_e | Warning | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| 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 |

6.1.75 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 |
| VRtg | AB-BIxED600_Rev3_ASG_SP_ARtg_VRtg | Rated primary voltage | | |
| Cor | ABBIED600_Rev1_ASG_SP_f | Voltage phasor magnitude correction of external voltage transformer | | |
| AngCor | ABBIED600_Rev3_ASG_SP_i | Residual Voltage phasor angle correction of an external voltage transformer | | |
| Alm | ABBIED600_Rev1_SPS_e | Alarm | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| Wrn | ABBIED600_Rev1_SPS_e | Warning | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| VRtgScy | ABBIED600_Rev1_ASG_SP_f_e | Rated secondary voltage | E | REx615 MICS:2014>IEC 61850-7-4:2003 |

6.1.76 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 |
| FuFail | ABBIED600_Rev1_SPS | TVTR fuse failure | | |
| VRtg | ABBIED600_Rev3_ASG_SP_ARtg_VRtg | Primary rated voltage | | |

| | | | | |
|----------|-----------------------------------|---------------------------|---|-------------------------------------|
| Rat | ABBIED600_Rev1_ASG_SP_f | Division ratio | | |
| Cor | ABBIED600_Rev1_ASG_SP_f | Amplitude corr. A | | |
| AngCor | ABBIED600_Rev3_ASG_SP_i | Angle corr. A | | |
| Alm | ABBIED600_Rev1_SPS_e | Alarm | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| Wrn | ABBIED600_Rev1_SPS_e | Warning | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| 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 |

6.1.77 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 | AB-BIED600_Rev2_ENG_SP_FibMod_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 |

6.1.78 LN: SERLCCH2 Name: LCCH (ED1)

| Attribute name | Attribute type | Explanation | M/O/E | Remarks |
|----------------|-------------------------------------|---|-------|--|
| 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_FibMod_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 |
| CTSDITmmms | ABBIED600_Rev1_ING_SP_1_e | CTS delay for COM2 | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| RTSDITmmms | ABBIED600_Rev1_ING_SP_1_e | RTS delay for COM2 | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| SerBaudRte | ABBIED600_Rev1_ENG_SP_Bau-dRate_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 |

6.1.79 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 |

6.1.80 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_Rev4_ENG_SP_Eth-PortMod_e | Ethernet port mode | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
|---------|-------------------------------------|--------------------|---|-------------------------------------|

6.1.81 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_Rev4_ENG_SP_Eth-PortMod_e | Ethernet port mode | E | REx615 MICS:2014>IEC 61850-7-4:2003 |

6.1.82 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_Rev4_ENG_SP_Eth-PortMod_e | Ethernet port mode | E | REx615 MICS:2014>IEC 61850-7-4:2003 |

6.1.83 LN: MBSLPRT1 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_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_Rev3_VSG_2_20 | Control Struct Password 1 | | |
| CtlPwd2 | ABBIED600_Rev3_VSG_2_20 | Control Struct Password 2 | | |
| CtlPwd3 | ABBIED600_Rev3_VSG_2_20 | Control Struct Password 3 | | |
| CtlPwd4 | ABBIED600_Rev3_VSG_2_20 | Control Struct Password 4 | | |
| CtlPwd5 | ABBIED600_Rev3_VSG_2_20 | Control Struct Password 5 | | |
| CtlPwd6 | ABBIED600_Rev3_VSG_2_20 | Control Struct Password 6 | | |

| | | | | |
|-----------|--------------------------------------|---------------------------|--|---|
| CtlPwd7 | ABBIED600_Rev3_VSG_2_20 | Control Struct Password 7 | | |
| CtlPwd8 | ABBIED600_Rev3_VSG_2_20 | Control Struct Password 8 | | |
| CommPort | AB-BIED600_Rev3_ENG_SP_CommPort_ED2 | Port selection | | |
| LnkMod | ABBIED600_Rev2_ENG_SP_LnkMod | Link mode | | |
| MBWrAuth | ABBIED600_Rev2_ENG_SP_MBWrAuth | Write authority | | |
| EvtIdSel | ABBIED600_Rev2_ENG_SP_MBSEventID | Event ID selection | | |
| EvtBufMod | ABBIED600_Rev2_ENG_SP_MBEvtBufMod | Event buffering mode | | |
| CRCOrdr | ABBIED600_Rev2_ENG_SP_CRCOrd | CRC order | | |
| TmFrm | AB-BIED600_Rev2_ENG_SP_MBSTimeFormat | Time format | | |
| CliIP | ABBIED600_Rev3_VSG_2_20 | Client IP address | | |
| SerPty | ABBIED600_Rev2_ENG_SP_SerPty | Serial parity | | |
| CntRs | ABBIED600_Rev2_SPC_control | Diagnostic counters reset | | status-only,direct-with-normal-security |

6.1.84 LN: MSLPRT2 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_Rev3_VSG_2_20 | Control Struct Password 1 | | |
| CtlPwd2 | ABBIED600_Rev3_VSG_2_20 | Control Struct Password 2 | | |
| CtlPwd3 | ABBIED600_Rev3_VSG_2_20 | Control Struct Password 3 | | |
| CtlPwd4 | ABBIED600_Rev3_VSG_2_20 | Control Struct Password 4 | | |
| CtlPwd5 | ABBIED600_Rev3_VSG_2_20 | Control Struct Password 5 | | |
| CtlPwd6 | ABBIED600_Rev3_VSG_2_20 | Control Struct Password 6 | | |
| CtlPwd7 | ABBIED600_Rev3_VSG_2_20 | Control Struct Password 7 | | |
| CtlPwd8 | ABBIED600_Rev3_VSG_2_20 | Control Struct Password 8 | | |
| CommPort | AB-BIED600_Rev3_ENG_SP_CommPort_ED2 | Port selection | | |
| LnkMod | ABBIED600_Rev2_ENG_SP_LnkMod | Link mode | | |
| MBWrAuth | ABBIED600_Rev2_ENG_SP_MBWrAuth | Write authority | | |
| EvtIdSel | ABBIED600_Rev2_ENG_SP_MBSEventID | Event ID selection | | |

| | | | | |
|-----------|--------------------------------------|---------------------------|--|---|
| EvtBufMod | ABBIED600_Rev2_ENG_SP_MBEvtBufMod | Event buffering mode | | |
| CRCOrdr | ABBIED600_Rev2_ENG_SP_CRCOrd | CRC order | | |
| TmFrm | AB-BIED600_Rev2_ENG_SP_MBSTimeFormat | Time format | | |
| CliIP | ABBIED600_Rev3_VSG_2_20 | Client IP address | | |
| SerPty | ABBIED600_Rev2_ENG_SP_SerPty | Serial parity | | |
| CntRs | ABBIED600_Rev2_SPC_control | Diagnostic counters reset | | status-only,direct-with-normal-security |

6.1.85 LN: MBSLPORT3 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_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_Rev3_VSG_2_20 | Control Struct Password 1 | | |
| CtlPwd2 | ABBIED600_Rev3_VSG_2_20 | Control Struct Password 2 | | |
| CtlPwd3 | ABBIED600_Rev3_VSG_2_20 | Control Struct Password 3 | | |
| CtlPwd4 | ABBIED600_Rev3_VSG_2_20 | Control Struct Password 4 | | |
| CtlPwd5 | ABBIED600_Rev3_VSG_2_20 | Control Struct Password 5 | | |
| CtlPwd6 | ABBIED600_Rev3_VSG_2_20 | Control Struct Password 6 | | |
| CtlPwd7 | ABBIED600_Rev3_VSG_2_20 | Control Struct Password 7 | | |
| CtlPwd8 | ABBIED600_Rev3_VSG_2_20 | Control Struct Password 8 | | |
| CommPort | AB-BIED600_Rev3_ENG_SP_CommPort_ED2 | Port selection | | |
| LnkMod | ABBIED600_Rev2_ENG_SP_LnkMod | Link mode | | |
| MBWrAuth | ABBIED600_Rev2_ENG_SP_MBWrAuth | Write authority | | |
| EvtIdSel | ABBIED600_Rev2_ENG_SP_MBSEventID | Event ID selection | | |
| EvtBufMod | ABBIED600_Rev2_ENG_SP_MBEvtBufMod | Event buffering mode | | |
| CRCOrdr | ABBIED600_Rev2_ENG_SP_CRCOrd | CRC order | | |
| TmFrm | AB-BIED600_Rev2_ENG_SP_MBSTimeFormat | Time format | | |
| CliIP | ABBIED600_Rev3_VSG_2_20 | Client IP address | | |
| SerPty | ABBIED600_Rev2_ENG_SP_SerPty | Serial parity | | |
| CntRs | ABBIED600_Rev2_SPC_control | Diagnostic counters reset | | status-only,direct-with-normal-security |

6.1.86 LN: MBSLPRT4 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_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 |
| CommIntnOv | ABBIED600_Rev1_SPS | Internal Overflow indication | | |
| ConnRejSck | ABBIED600_Rev1_INS | Connection rejected due to no socket available | | |

| | | | | |
|-----------|--------------------------------------|--|--|---|
| ConnRejRg | ABBIED600_Rev1_INS | Connection rejected due to unregistered client | | |
| CtlPwd1 | ABBIED600_Rev3_VSG_2_20 | Control Struct Password 1 | | |
| CtlPwd2 | ABBIED600_Rev3_VSG_2_20 | Control Struct Password 2 | | |
| CtlPwd3 | ABBIED600_Rev3_VSG_2_20 | Control Struct Password 3 | | |
| CtlPwd4 | ABBIED600_Rev3_VSG_2_20 | Control Struct Password 4 | | |
| CtlPwd5 | ABBIED600_Rev3_VSG_2_20 | Control Struct Password 5 | | |
| CtlPwd6 | ABBIED600_Rev3_VSG_2_20 | Control Struct Password 6 | | |
| CtlPwd7 | ABBIED600_Rev3_VSG_2_20 | Control Struct Password 7 | | |
| CtlPwd8 | ABBIED600_Rev3_VSG_2_20 | Control Struct Password 8 | | |
| CommPort | AB-BIED600_Rev3_ENG_SP_CommPort_ED2 | Port selection | | |
| LnkMod | ABBIED600_Rev2_ENG_SP_LnkMod | Link mode | | |
| MBWrAuth | ABBIED600_Rev2_ENG_SP_MBWrAuth | Write authority | | |
| EvtIdSel | ABBIED600_Rev2_ENG_SP_MBSEventID | Event ID selection | | |
| EvtBufMod | ABBIED600_Rev2_ENG_SP_MBEvtBufMod | Event buffering mode | | |
| CRCOrdr | ABBIED600_Rev2_ENG_SP_CRCOrd | CRC order | | |
| TmFrm | AB-BIED600_Rev2_ENG_SP_MBSTimeFormat | Time format | | |
| CliIP | ABBIED600_Rev3_VSG_2_20 | Client IP address | | |
| SerPty | ABBIED600_Rev2_ENG_SP_SerPty | Serial parity | | |
| CntRs | ABBIED600_Rev2_SPC_control | Diagnostic counters reset | | status-only,direct-with-normal-security |

6.1.87 LN: MBSLPRT5 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_Rev3_VSG_2_20 | Control Struct Password 1 | | |
| CtlPwd2 | ABBIED600_Rev3_VSG_2_20 | Control Struct Password 2 | | |
| CtlPwd3 | ABBIED600_Rev3_VSG_2_20 | Control Struct Password 3 | | |

| | | | | |
|-----------|--------------------------------------|---------------------------|--|---|
| CtlPwd4 | ABBIED600_Rev3_VSG_2_20 | Control Struct Password 4 | | |
| CtlPwd5 | ABBIED600_Rev3_VSG_2_20 | Control Struct Password 5 | | |
| CtlPwd6 | ABBIED600_Rev3_VSG_2_20 | Control Struct Password 6 | | |
| CtlPwd7 | ABBIED600_Rev3_VSG_2_20 | Control Struct Password 7 | | |
| CtlPwd8 | ABBIED600_Rev3_VSG_2_20 | Control Struct Password 8 | | |
| CommPort | AB-BIED600_Rev3_ENG_SP_CommPort_ED2 | Port selection | | |
| LnkMod | ABBIED600_Rev2_ENG_SP_LnkMod | Link mode | | |
| MBWrAuth | ABBIED600_Rev2_ENG_SP_MBWrAuth | Write authority | | |
| EvtIdSel | ABBIED600_Rev2_ENG_SP_MBSEventID | Event ID selection | | |
| EvtBufMod | ABBIED600_Rev2_ENG_SP_MBEvtBufMod | Event buffering mode | | |
| CRCOrdr | ABBIED600_Rev2_ENG_SP_CRCOrd | CRC order | | |
| TmFrm | AB-BIED600_Rev2_ENG_SP_MBSTimeFormat | Time format | | |
| CliIP | ABBIED600_Rev3_VSG_2_20 | Client IP address | | |
| SerPty | ABBIED600_Rev2_ENG_SP_SerPty | Serial parity | | |
| CntRs | ABBIED600_Rev2_SPC_control | Diagnostic counters reset | | status-only,direct-with-normal-security |

6.1.88 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) | | |
| 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 | 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 |

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|-------------|------------------------------------|----------------------|---|-------------------------------------|
| 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_autoInicnd_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 |

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|------------|---------------------------|--------------------|---|-------------------------------------|
| 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 |

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|-----------|---------------------------|---------------------------------|---|-------------------------------------|
| 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 |

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|------------|------------------------------|-----------------------------------|---|---|
| FrqOpAlm | ABBIED600_Rev1_SPS_e | Frequent opera-tion 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 coordi-nation | 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 incre-ment by one | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| InIni1 | ABBIED600_Rev1_SPS_e | No 1 operate sig-nal | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| InIni2 | ABBIED600_Rev1_SPS_e | No 2 operate sig-nal | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| InIni3 | ABBIED600_Rev1_SPS_e | No 3 operate sig-nal | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| InIni4 | ABBIED600_Rev1_SPS_e | No 4 operate sig-nal | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| InIni5 | ABBIED600_Rev1_SPS_e | No 5 operate sig-nal | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| InIni6 | ABBIED600_Rev1_SPS_e | No 6 operate sig-nal | 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 |

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|------------|------------------------------|-----------------------------|---|---|
| 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_Rev3_ENC_TestCtl_e | Test control for outputs | E | REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security |

6.1.89 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 |

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|-----------|----------------------------------|---------------------|---|-------------------------------------|
| RcdLen | ABBIED600_Rev1_ING_SP_1_e | Record length | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| StoRteSel | ABBIED600_Rev2_ING_SP_ES-toRte_e | Storage rate | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| StoModPer | ABBIED600_Rev2_ENG_SP_ESto-Mod_e | Stor. mode periodic | 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 triggering | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| ManTrgInd | ABBIED600_Rev1_SPS_simple_e | Manual triggering | E | REx615 MICS:2014>IEC 61850-7-4:2003 |

6.2 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_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 | AB-BIED600_Rev3_WYE_threephase_full_i | Phase currents | | |
| AMeas-Mod | ABBIED600_Rev3_ENG_SP_Meas-Mod_e | Selects used measurement mode | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| NumPh | AB-BIED600_Rev3_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 | CMMXU1 demands | 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_Rev3_ENG_SP_ClcMth | Calculation method of statistical data objects | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| ClcMod | ABBIED600_Rev2_ENG_SP_ClcMod | Calculation mode | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| ClcSrc | ABBIED600_Rev4_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_Rev3_ENG_SP_ClcMth | Calculation method of statistical data objects | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| ClcMod | ABBIED600_Rev2_ENG_SP_ClcMod | Calculation mode | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| ClcSrc | ABBIED600_Rev4_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_Rev3_ENG_SP_Clcmth | Calculation method of statistical data objects | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| ClcMod | ABBIED600_Rev2_ENG_SP_Clcmod | Calculation mode | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| ClcSrc | ABBIED600_Rev4_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 | ABBIED600_Rev3_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 | ABBIED600_Rev3_ENG_SP_Clcmth | Calculation method of statistical data objects | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| ClcMod | ABBIED600_Rev2_ENG_SP_Clcmod | Calculation mode | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| ClcSrc | ABBIED600_Rev4_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_Rev3_ENG_SP_ClcMth | Calculation method of statistical data objects | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| ClcMod | AB-BIED600_Rev2_ENG_SP_ClcMod | Calculation mode | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| ClcSrc | ABBIED600_Rev4_ORG_SP_1 | Object reference to source logical node | | |

6.2.8 LN: RCMMMXU1 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_Rev3_ENG_SP_ClcMth | Calculation method of statistical data objects | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| ClcMod | AB-BIED600_Rev2_ENG_SP_ClcMod | Calculation mode | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| ClcSrc | ABBIED600_Rev4_ORG_SP_1 | Object reference to source logical node | | |

6.2.9 LN: PHIPTOC1 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 | | |
| 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_Rev3_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 |

6.2.10 LN: NSPTOC1 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 |

6.2.11 LN: NSPTOC2 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 | | |
| OpDTmms | ABBIED600_Rev1_ING_SG | Operate Delay Time | | |
| TypRsCrv | ABBIED600_Rev3_ENG_SG_TypRsCrv | Type of Reset Curve | | |
| RsDTmms | 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 |

6.2.12 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 |

6.2.13 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_Rev3_INS_Unit_e | Estimated time to operate | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| BlkThmRsTm | ABBIED600_Rev3_INS_Unit_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 |

6.2.14 LN: INRPHAR1 Name: PHAR (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 | 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 |

6.2.15 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 | | |
| TPTrTmms | ABBIED600_Rev1_ING_SP_e | Three Pole Retrip Time Delay | | |
| DetValA | ABBIED600_Rev3_ASG_SP_i | Current Detector Value | | |
| ReTrMod | ABBIED600_Rev2_ENG_SP_ReTrMod | Retrip Mode | | |
| TrPlsTmms | ABBIED600_Rev1_ING_SP_e | Trip pulse time | | |
| Blk | ABBIED600_Rev1_SPS_simple | Block signal for all binary outputs | E | 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_Rev3_ENG_SP_Meas-Mod_e | Measurement mode selection | E | REx615 MICS:2014>IEC 61850-7-4:2003 |

| | | | | |
|------------|-------------------------------------|---------------------------------------|---|---|
| | | (current): 2= DFT; 3= Peak-to-Peak | | |
| CBAIm-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 |

6.2.16 LN: TRPPTRC1 Name: PTRC (ED1)

| Attribute name | Attribute type | Explanation | M/O/E | Remarks |
|----------------|------------------------------------|---|-------|---|
| Mod | ABBIED600_Rev2_ENC_Mod_OffsetOn_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 | ABBIED600_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 |

6.2.17 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 |

6.2.18 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 |

6.2.19 LN: TCSSCBR2 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 |

6.2.20 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 | | |

6.2.21 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 | | |

6.2.22 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 | | |

6.2.23 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 | | |

6.2.24 LN: TPGAPC5 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: TPGAPC6 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: TPGAPC7 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: TPGAPC8 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 | | |

6.2.28 LN: TPGAPC9 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 | | |

6.2.29 LN: TPGAPC10 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 | | |

6.2.30 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 | 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 |
|-----------|-------------------------------|--------------------------|---|---|

6.2.31 LN: STTPMSS1 Name: PMSS (ED1)

| Attribute name | Attribute type | Explanation | M/O/E | Remarks |
|----------------|------------------------------------|--|-------|---|
| Mod | ABBIED600_Rev2_ENC_Mod_OffsetOn_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_Rev2_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 |
|---------|---------------------------|---|---|-------------------------------------|

6.2.32 LN: PREVPTOC1 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 | 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 |

6.2.33 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 |
|-----------|------------------------------|--------------------------|---|---|

6.2.34 LN: MPTTR1 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 |
| 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 |

| | | | | |
|------------|-----------------------------------|---|---|---|
| EnvTmpMod | 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 |
| BlkThmRsTm | ABBIED600_Rev1_INS_e | Estimated time to reset of block re-start | 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 |

6.2.35 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 |

6.2.36 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_Rev3_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_Rev3_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 |
|-----------|------------------------------|--------------------------|---|---|

6.2.37 LN: EFLPTOC1 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 | 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 | ABBIED600_Rev3_ENG_SG_TypRsCrv | Type of Reset Curve | | |
| RsDITmms | ABBIED600_Rev1_ING_SP_1 | Reset Delay Time | | |
| AMeasMod | ABBIED600_Rev3_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 |

6.2.38 LN: EFHPTOC1 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 | 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 | ABBIED600_Rev3_ENG_SG_TypRsCrv | Type of Reset Curve | | |
| RsDITmms | ABBIED600_Rev1_ING_SP_1 | Reset Delay Time | | |
| AMeasMod | ABBIED600_Rev3_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 |

6.2.39 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 |

6.2.40 LN: MNSPTOC2 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 |

6.2.41 LN: PHPTUV1 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_Rev3_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_Rev2_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 |
| 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 |

6.2.42 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 | | |
| 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_Rev3_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_Rev2_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 |
| 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 |

6.2.43 LN: PHPTUV3 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 | | |
| 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_Rev3_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_Rev2_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 |
| 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 |

6.2.44 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_Rev3_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_Rev2_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 |

6.2.45 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_Rev3_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_Rev2_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 |

6.2.46 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_Rev3_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_Rev2_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 |

6.2.47 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 | AB-BIED600_Rev2_ENG_SP_VResSigSel_e | Selection for used Uo signal | E | REx615 MICS:2014>IEC 61850-7-4:2003 |

6.2.48 LN: ROVPTOV2 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 | AB-BIED600_Rev2_ENG_SP_VResSigSel_e | Selection for used Uo signal | E | REx615 MICS:2014>IEC 61850-7-4:2003 |

6.2.49 LN: ROVPTOV3 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 | AB-BIED600_Rev2_ENG_SP_VResSigSel_e | Selection for used Uo signal | E | REx615 MICS:2014>IEC 61850-7-4:2003 |

6.2.50 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 | 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 |

6.2.51 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 |

6.2.52 LN: NSPTOV1 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 |

6.2.53 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 |

6.2.54 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_Rev2_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 |

6.2.55 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_Rev2_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 |

6.2.56 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 |
| VMes-Mod | ABBIED600_Rev3_ENG_SP_Meas-Mod_e | Selects used measurement mode | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| NumPh | AB-BIED600_Rev3_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 |

6.2.57 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_Rev3_ENG_SP_ClcMth | Calculation method | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| ClcMod | ABBIED600_Rev2_ENG_SP_ClcMod | Calculation mode | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| ClcSrc | ABBIED600_Rev4_ORG_SP_1 | Calculation start | | |

6.2.58 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_Rev3_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_Rev3_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 |

6.2.59 LN: PHHPTOC2 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 | | |
| 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_Rev3_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_Rev3_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 |
|-----------|------------------------------|--------------------------|---|---|

6.2.60 LN: DEFHPTOC1 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 | 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 | ABBIED600_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_Rev3_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_Rev2_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 |

6.2.61 LN: DEFLPTOC1 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 | ABBIED600_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_Rev3_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_Rev2_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 |

6.2.62 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 | ABBIED600_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- | E | REx615 MICS:2014>IEC 61850-7-4:2003 |

| | | | | |
|------------|-------------------------------------|------------------------------------|---|---|
| | | dir when dir info is invalid | | |
| AMeasMod | ABBIED600_Rev3_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_Rev2_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 |

6.2.63 LN: INTRPTEF1 Name: PTEF (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 | | |
| GndStr | ABBIED600_Rev3_ASG_SG_i | Voltage start value | | |
| DirMod | ABBIED600_Rev3_ENG_SG_DirMod | 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 | E | REx615 MICS:2014>IEC 61850-7-4:2003 |

| | | | | |
|------------|-------------------------------------|------------------------------|---|---|
| | | before start in IEF mode | | |
| 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 |
| OpModTEF | ABBIED600_Rev3_ENG_SP_OpModTEF_e | Operation mode for function | 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 |

6.2.64 LN: EFLPTOC2 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 | 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 | ABBIED600_Rev3_ENG_SG_TypRsCrv | Type of Reset Curve | | |
| RsDITmms | ABBIED600_Rev1_ING_SP_1 | Reset Delay Time | | |
| AMeasMod | ABBIED600_Rev3_ENG_SP_MeasMod_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 |

6.2.65 LN: EFIPTOC1 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 | | |
| 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 |

6.2.66 LN: DPHLPTOC1 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 | 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_Rev3_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_Rev3_ENG SP_Meas-Mod_e | Measuring 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 |
| 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 |

6.2.67 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_Rev3_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_Rev3_ENG_SP_Meas-Mod_e | Measuring 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 |
| 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 |

6.2.68 LN: DPHHPTOC1 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 | 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_Rev3_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_Rev3_ENG_SP_Meas-Mod_e | Selects used measurement 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 |
| 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 |

6.2.69 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_Rev1_LPL_1 | Name plate | | ED1 only |

| | | | | |
|--------|-------------------------------|--|---|-------------------------------------|
| TotW | ABBIED600_Rev3_MV_simple_i | Average active power | | |
| TotVAr | ABBIED600_Rev3_MV_simple_i | Average reactive power | | |
| TotVA | ABBIED600_Rev3_MV_simple_i | Average apparent power | | |
| TotPF | ABBIED600_Rev3_MV_simple_i | Average power factor | | |
| ClcMod | AB-BIED600_Rev2_ENG_SP_ClcMod | Calculation mode | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| ClcMth | AB-BIED600_Rev3_ENG_SP_ClcMth | Calculation method of statistical data objects | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| ClcSrc | ABBIED600_Rev4_ORG_SP_1 | Object reference to source logical node | | |

6.2.70 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_Rev1_LPL_1 | Name plate | | ED1 only |
| TotW | ABBIED600_Rev3_MV_simple_i | Maximum active power | | |
| TotVAr | ABBIED600_Rev3_MV_simple_i | Maximum reactive power | | |
| TotVA | ABBIED600_Rev3_MV_simple_i | Maximum apparent power | | |
| ClcMod | AB-BIED600_Rev2_ENG_SP_ClcMod | Calculation mode | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| ClcMth | AB-BIED600_Rev3_ENG_SP_ClcMth | Calculation method of statistical data objects | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| ClcSrc | ABBIED600_Rev4_ORG_SP_1 | Object reference to source logical node | | |

6.2.71 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_Rev1_LPL_1 | Name plate | | ED1 only |
| TotW | ABBIED600_Rev3_MV_simple_i | Minimum active power | | |
| TotVAr | ABBIED600_Rev3_MV_simple_i | Minimum reactive power | | |
| TotVA | ABBIED600_Rev3_MV_simple_i | Minimum apparent power | | |
| ClcMod | AB-BIED600_Rev2_ENG_SP_ClcMod | Calculation mode | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| ClcMth | AB-BIED600_Rev3_ENG_SP_ClcMth | Calculation method of statistical data objects | E | REx615 MICS:2014>IEC 61850-7-4:2003 |

| | | | | |
|--------|-------------------------|---|--|--|
| ClcSrc | ABBIED600_Rev4_ORG_SP_1 | Object reference to source logical node | | |
|--------|-------------------------|---|--|--|

6.2.72 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 |
| ARtg | AB-BIED600_Rev3_ASG_SP_ARtg_VRtg | Primary rated current | | |
| Cor | ABBIED600_Rev1_ASG_SP_f | Phase A Current phasor magnitude correction of an external current transformer | | |
| AngCor | ABBIED600_Rev3_ASG_SP_i | Phase A Current phasor angle correction of an external current transformer | | |
| Alm | ABBIED600_Rev1_SPS_e | Alarm | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| Wrn | ABBIED600_Rev1_SPS_e | Warning | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| 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,order code dependent |
| VRtgScyRat | ABBIED600_Rev1_ASG_SP_f_e | Rated Secondary Value | E | REx615 MICS:2014>IEC 61850-7-4:2003,order code dependent |
| RevPol | ABBIED600_Rev1_SPG_SP_e | Reverse polarity | E | REx615 MICS:2014>IEC 61850-7-4:2003 |

6.2.73 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 |
| ARtg | AB-BIED600_Rev3_ASG_SP_ARtg_VRtg | Primary rated current | | |
| Cor | ABBIED600_Rev1_ASG_SP_f | Current phasor magnitude correction of an external current transformer | | |

| | | | | |
|---------|---------------------------------|---|---|--|
| AngCor | ABBIED600_Rev3_ASG_SP_i | Residual Current phasor angle correction of an external current transformer | | |
| Alm | ABBIED600_Rev1_SPS_e | Alarm | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| Wrn | ABBIED600_Rev1_SPS_e | Warning | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| 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 |

6.2.74 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 |
| VRtg | ABBIED600_Rev3_ASG_SP_ARtg_VRtg | Rated primary voltage | | |
| Cor | ABBIED600_Rev1_ASG_SP_f | Voltage phasor magnitude correction of external voltage transformer | | |
| AngCor | ABBIED600_Rev3_ASG_SP_i | Residual Voltage phasor angle correction of an external voltage transformer | | |
| Alm | ABBIED600_Rev1_SPS_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 |
| VRtgScy | ABBIED600_Rev1_ASG_SP_f_e | Rated secondary voltage | E | REx615 MICS:2014>IEC 61850-7-4:2003 |

6.2.75 LN: RESVMMXU1 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 |
| PhV | ABBIED600_Rev3_WYE_res_full_i | Residual voltage | | |
| VMeas-Mod | AB-BIED600_Rev3_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 |

6.2.76 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_Rev3_ENG_SP_ClcMth | Calculation method of statistical data objects | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| ClcMod | AB-BIED600_Rev2_ENG_SP_ClcMod | Calculation mode | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| ClcSrc | ABBIED600_Rev4_ORG_SP_1 | Object reference to source logical node | | |

6.2.77 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_Rev3_ENG_SP_ClcMth | Calculation method of statistical data objects | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| ClcMod | AB-BIED600_Rev2_ENG_SP_ClcMod | Calculation mode | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| ClcSrc | ABBIED600_Rev4_ORG_SP_1 | Object reference to source logical node | | |

6.2.78 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_Rev3_ENG_SP_ClcMth | Calculation method of statistical data objects | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| ClcMod | AB-BIED600_Rev2_ENG_SP_ClcMod | Calculation mode | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| ClcSrc | ABBIED600_Rev4_ORG_SP_1 | Object reference to source logical node | | |

6.2.79 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 |
| FuFail | ABBIED600_Rev1_SPS | TVTR fuse failure | | |
| VRtg | ABBIED600_Rev3_ASG_SP_ARtg_VRtg | Primary rated voltage | | |
| Rat | ABBIED600_Rev1_ASG_SP_f | Division ratio | | |
| Cor | ABBIED600_Rev1_ASG_SP_f | Amplitude corr. A | | |
| AngCor | ABBIED600_Rev3_ASG_SP_i | Angle corr. A | | |
| Alm | ABBIED600_Rev1_SPS_e | Alarm | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| Wrn | ABBIED600_Rev1_SPS_e | Warning | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| 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 |

6.2.80 LN: VMMXU1 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 |
| 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 |
| VMes-Mod | ABBIED600_Rev3_ENG_SP_Meas-Mod_e | Selects used measurement mode | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| NumPh | AB-BIED600_Rev3_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 |

6.2.81 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_Rev3_ENG_SP_ClcMth | Calculation method | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| ClcMod | ABBIED600_Rev2_ENG_SP_ClcMod | Calculation mode | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| ClcSrc | ABBIED600_Rev4_ORG_SP_1 | Calculation start | | |

6.2.82 LN: DARREC1 Name: RREC (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 |
| 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 | 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 |
| 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 |
| CBClsPosSt | 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 |

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|------------|---------------------------|--------------------|---|-------------------------------------|
| 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 |

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|-----------|---------------------------|--------------------------------|---|-------------------------------------|
| 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 |

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|------------|------------------------------|----------------------------------|---|---|
| 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 reclose | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| PrgRec5 | ABBIED600_Rev1_SPS_e | In progress 5th reclose | 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 |
| CBManClS | 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 reclosing | 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 |

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|------------|------------------------------|-----------------------------|---|---|
| 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_Rev3_ENC_TestCtl_e | Test control for outputs | E | REx615 MICS:2014>IEC 61850-7-4:2003,status-only,direct-with-normal-security |

6.2.83 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_Rev4_ORG_SP_1 | GrRef | | |
| MltLev | ABBIED600_Rev1_SPG_SP | Multiple levels | E | REx615 MICS:2014>IEC 61850-7-4:2003 |

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|-----------|------------------------------------|-------------------|---|---|
| CmdBlk | ABBIED600_Rev1_SPC_simple | Com-mands blocked | E | REx615 MICS:2014>IEC 61850-7-4:2003,status-only |
| LocKeyHMI | ABBIED600_Rev3_ENS_LockKeyHMI_e | Control HMI | 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 lo-cal | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| LocKeyRem | ABBIED600_Rev1_SPS_simple_e | Control re-mote | 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_StaLevSet_e | Station authority | E | REx615 MICS:2014>IEC 61850-7-4:2003 |

6.2.84 LN: CBCSWI1 Name: CSWI (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 |
| Loc | ABBIED600_Rev1_SPS | Local operation | | |
| OpCntRs | ABBIED600_Rev2_INC_control_int | Operation counter | | status-only,direct-with-normal-security |
| Pos | ABBIED600_Rev8_DPC_control | Switch, general | | status-only,direct-with-normal-security,sbo-with-enhanced-security |
| OpOpen | ABBIED600_Rev1_ACT_simple | Switch, general | | |
| OpClos | ABBIED600_Rev1_ACT_simple | Switch, general | | |
| SelOpen | ABBIED600_Rev1_SPS | Selection open switch | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| SelClos | 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 |
| PosOpen | ABBIED600_Rev1_SPS_simple_e | Pos 1-bit opn | E | REx615 MICS:2014>IEC 61850-7-4:2003 |
| PosClos | 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 |

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|------------|-------------------------|----------------|---|-------------------------------------|
| 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

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_Rev4_ING_SG_Unit

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

7.2.5 ABBIED600_Rev4_ING_SP_Unit

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

7.2.6 ABBIED600_Rev3_ENG_SP_CommPort_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 | |

7.2.7 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 | |

7.2.8 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_OnTestOff | M | |
| q | Quality | ST | qchg | | M | |
| t | Timestamp | ST | | | M | |
| ctlModel | Enum | CF | | ABBIED600_Rev1_CtlModelKind_StatusDirect | M | |
| cdcNs | VisString255 | EX | | | E | |
| cdcName | VisString255 | EX | | | E | |
| blockIn | BOOLEAN | EX | | | E | |
| bits | INT8U | ST | | | | |
| storVal | INT8U | SP | | | | |

7.2.9 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_OnTestblockedOff | M | |
| q | Quality | ST | qchg | | M | |
| t | Timestamp | ST | | | M | |
| ctlModel | Enum | CF | | ABBIED600_Rev1_CtlModelKind_StatusDirect | M | |
| cdcNs | VisString255 | EX | | | E | |
| cdcName | VisString255 | EX | | | E | |
| blockIn | BOOLEAN | EX | | | E | |
| bits | INT8U | ST | | | | |
| storVal | INT8U | SP | | | | |

7.2.10 ABBIED600_Rev5_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_OnTestOff | M | |
| q | Quality | ST | qchg | | M | |
| t | Timestamp | ST | | | M | |
| ctlModel | Enum | CF | | ABBIED600_Rev1_CtlModelKind_StatusDirect | M | |
| cdcNs | VisString255 | EX | | | E | |
| cdcName | VisString255 | EX | | | E | |
| blockIn | BOOLEAN | EX | | | E | |
| bits | INT8U | ST | | | | |
| storVal | INT8U | SP | | | | |

7.2.11 ABBIED600_Rev5_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 | | | | |

7.2.12 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 | | | | |

7.2.13 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 | | | | |

7.2.14 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 | | | | |

7.2.15 ABBIED600_Rev11_INS_error

| Attribute name | Attribute type | FC | TrgOp | Value/Value range | M/O/E | Remarks |
|----------------|----------------|----|-------|-----------------------------|-------|---------|
| stVal | Enum | ST | dchg | ABBIED600_Rev7_Health_Error | M | |
| q | Quality | ST | qchg | | M | |
| t | Timestamp | ST | | | M | |
| cdcNs | VisString255 | EX | | | E | |
| cdcName | VisString255 | EX | | | E | |
| debug | VisString255 | EX | | | E | |
| eDiag1 | INT32U | EX | | | E | |
| eDiag2 | INT32U | EX | | | E | |
| eDiag3 | INT32U | EX | | | E | |
| eDiag4 | INT32U | EX | | | E | |

7.2.16 ABBIED600_Rev11_ENS_error

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

7.2.17 ABBIED600_Rev3_INS_Unit

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

7.2.18 ABB_REX615_IINS_Auth_Pwd_1

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

| | | | | | | |
|---------|--------------|----|------|--|---|--|
| stVal | INT32 | ST | dchg | | M | |
| q | Quality | ST | qchg | | M | |
| t | Timestamp | ST | | | M | |
| pwdChan | VisString255 | EX | | | E | |

7.2.19 ABBIED600_Rev8_LPL_LD0_LNN0_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 | | | |
| lnNs | VisString255 | EX | | | | |
| cdcNs | VisString255 | EX | | | E | |
| cdcName | VisString255 | EX | | | E | |
| eFD | VisString255 | EX | | | E | |

7.2.20 ABBIED600_Rev3_LPL_mms

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

7.2.21 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 | |
| lnNs | VisString255 | EX | | | | |
| cdcNs | VisString255 | EX | | | E | |
| cdcName | VisString255 | EX | | | E | |
| clientIP | VisString255 | EX | | | E | |
| ctrlStructPassWd1 | VisString255 | EX | | | E | |
| ctrlStructPassWd2 | VisString255 | EX | | | E | |

| | | | | | | |
|-------------------|--------------|----|--|--|---|--|
| ctrlStructPassWd3 | VisString255 | EX | | | E | |
| ctrlStructPassWd4 | VisString255 | EX | | | E | |
| ctrlStructPassWd5 | VisString255 | EX | | | E | |
| ctrlStructPassWd6 | VisString255 | EX | | | E | |
| ctrlStructPassWd7 | VisString255 | EX | | | E | |
| ctrlStructPassWd8 | VisString255 | EX | | | E | |

7.2.22 ABBIED600_Rev5_LPL_tms_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 | |

7.2.23 ABBIED600_Rev5_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 | |

7.2.24 ABBIED600_Rev5_LPL_LD0_LTIM

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

| | | | | | | |
|-----------|--------------|----|-------------------------------|---|---|--|
| 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 | | | | |

7.2.25 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 | |
| InNs | 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 | |

7.2.26 ABBIED600_Rev2_LPL_1tsg_setCal

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

7.2.27 ABBIED600_Rev6_DPL_ied

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

7.2.28 ABBIED600_Rev8_DPL_eeprom_2_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 | |
| eManDate | VisString255 | EX | | | E | |
| eTestStatId | VisString255 | EX | | | E | |
| eTesterId | VisString255 | EX | | | E | |
| eTestDate | VisString255 | EX | | | E | |
| eHwId | VisString255 | EX | | | E | |

7.2.29 ABBIED600_Rev5_DPL_eeprom_1_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 | |
| eManDate | VisString255 | EX | | | E | |
| eTestStatId | VisString255 | EX | | | E | |
| eTesterId | VisString255 | EX | | | E | |
| eTestDate | VisString255 | EX | | | E | |
| eHwId | VisString255 | EX | | | E | |

7.2.30 ABBIED600_Rev4_DPC_simple

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

7.2.31 ABBIED600_Rev8_DPC_control

| Attribute name | Attribute type | FC | TrgOp | Value/Value range | M/O/E | Re- marks |
|----------------|----------------|----|-------|-------------------------|-------|--------------|
| SBOw | Struct | CO | | ABBIED600_Rev1_tcOper | O | |
| Oper | Struct | CO | | ABBIED600_Rev1_tcOper | O | |
| Cancel | Struct | CO | | ABBIED600_Rev1_tcCancel | O | |

| | | | | | | |
|---------------------|--------------|----|------|---|---|--|
| stVal | Dbpos | ST | dchg | | M | |
| q | Quality | ST | qchg | | M | |
| t | Timestamp | ST | | | M | |
| 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 | |

7.2.32 ABBIED600_Rev1_LPL_RSS

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

8 Enum type extensions

8.1 New Enum types

8.1.1 ABBIED600_Rev1_CtlModelKind_StatusDirect

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

8.1.2 ABBIED600_Rev1_OpModSG

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

8.1.3 ABBIED600_Rev1_CpySG

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

8.1.4 ABBIED600_Rev1_CtlModelKind_Status

| Value | Description | Remarks |
|-------|-------------|---------|
| 0 | status-only | |

8.1.5 ABBIED600_Rev1_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 |

8.1.6 ABBIED600_Rev1_HzSet

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

8.1.7 ABBIED600_Rev1_PhRotSet

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

8.1.8 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 |

8.1.9 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 |

8.1.10 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 |

8.1.11 ABBIED600_Rev1_ModRemCtl

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

8.1.12 ABBIED600_Rev4_Languages

| Value | Description | Remarks |
|-------|-------------------|---------------------------------------|
| 1 | English (us,iec) | Language selection,Language selection |
| 2 | English (us,ansi) | Language selection,Language selection |
| 3 | Chinese (cn,iec) | Language selection,Language selection |
| 4 | German (de,iec) | Language selection,Language selection |
| 5 | Swedish (se,iec) | Language selection,Language selection |
| 6 | Spanish (es,iec) | Language selection,Language selection |

| | | |
|----|----------------------|---------------------------------------|
| 7 | Russian (ru,iec) | Language selection,Language selection |
| 8 | Polish (pl,iec) | Language selection,Language selection |
| 9 | Portuguese (br,iec) | Language selection,Language selection |
| 10 | Portuguese (pt,iec) | Language selection,Language selection |
| 11 | Italian (it,iec) | Language selection,Language selection |
| 12 | Finnish (fi,iec) | Language selection,Language selection |
| 13 | French (fr,iec) | Language selection,Language selection |
| 14 | Norwegian (no,iec) | Language selection,Language selection |
| 15 | Czech (cz,iec) | Language selection,Language selection |
| 16 | Arabic (sa,iec) | Language selection,Language selection |
| 17 | Farsi (ir,iec) | Language selection,Language selection |
| 18 | Korean (kr,iec) | Language selection,Language selection |
| 19 | Flam (nl,iec) | Language selection,Language selection |
| 20 | Danish (dk, iec) | Language selection,Language selection |
| 21 | Spanish (mx,ansi) | Language selection,Language selection |
| 22 | Portuguese (br,ansi) | Language selection,Language selection |
| 23 | Turkish (tr,iec) | Language selection,Language selection |
| 24 | Croatian (hr,iec) | Language selection,Language selection |
| 25 | Ukrainian (ua,iec) | Language selection,Language selection |
| 26 | Hungarian (hu,iec) | Language selection,Language selection |
| 27 | Language 1 | Language selection,Language selection |
| 28 | Language 2 | Language selection,Language selection |
| 29 | Language 3 | Language selection,Language selection |
| 30 | Language 4 | Language selection,Language selection |
| 31 | Language 5 | Language selection,Language selection |
| 32 | Language 6 | Language selection,Language selection |
| 33 | Language 7 | Language selection,Language selection |
| 34 | Language 8 | Language selection,Language selection |
| 35 | Language 9 | Language selection,Language selection |
| 36 | Language 10 | Language selection,Language selection |

8.1.13 ABBIED600_Rev4_LanguageFiles

| Value | Description | Remarks |
|-------|-------------|---|
| 1 | en-US-IEC | Language files,Name of the language files |
| 2 | en-US-ANSI | Language files,Name of the language files |
| 3 | zh-CN-IEC | Language files,Name of the language files |
| 4 | de-DE-IEC | Language files,Name of the language files |
| 5 | sv-SE-IEC | Language files,Name of the language files |
| 6 | es-ES-IEC | Language files,Name of the language files |
| 7 | ru-RU-IEC | Language files,Name of the language files |
| 8 | pl-PL-IEC | Language files,Name of the language files |
| 9 | pt-BR-IEC | Language files,Name of the language files |

| | | |
|----|------------|---|
| 10 | pt-PT-IEC | Language files,Name of the language files |
| 11 | it-IT-IEC | Language files,Name of the language files |
| 12 | fi-FI-IEC | Language files,Name of the language files |
| 13 | fr-FR-IEC | Language files,Name of the language files |
| 14 | nb-NO-IEC | Language files,Name of the language files |
| 15 | cs-CZ-IEC | Language files,Name of the language files |
| 16 | ar-SA-IEC | Language files,Name of the language files |
| 17 | fa-IR-IEC | Language files,Name of the language files |
| 18 | ko-KR-IEC | Language files,Name of the language files |
| 19 | nl-NL-IEC | Language files,Name of the language files |
| 20 | da-DK-IEC | Language files,Name of the language files |
| 21 | es-MX-ANSI | Language files,Name of the language files |
| 22 | pt-BR-ANSI | Language files,Name of the language files |
| 23 | tr-TR-IEC | Language files,Name of the language files |
| 24 | hr-HR-IEC | Language files,Name of the language files |
| 25 | uk-UA-IEC | Language files,Name of the language files |
| 26 | hu-HU-IEC | Language files,Name of the language files |
| 27 | language1 | Language files,Name of the language files |
| 28 | language2 | Language files,Name of the language files |
| 29 | language3 | Language files,Name of the language files |
| 30 | language4 | Language files,Name of the language files |
| 31 | language5 | Language files,Name of the language files |
| 32 | language6 | Language files,Name of the language files |
| 33 | language7 | Language files,Name of the language files |
| 34 | language8 | Language files,Name of the language files |
| 35 | language9 | Language files,Name of the language files |
| 36 | language10 | Language files,Name of the language files |

8.1.14 ABBIED600_Rev1_FormatTime

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

8.1.15 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 |

8.1.16 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 |

8.1.17 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 |

8.1.18 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 |

8.1.19 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 |

8.1.20 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 |

8.1.21 ABBIED600_Rev1_SetVsb

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

8.1.22 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 |

8.1.23 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 |

8.1.24 ABBIED600_Rev1_AlmLedSt

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

8.1.25 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 |

8.1.26 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 |

8.1.27 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 |

8.1.28 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 |

8.1.29 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 |

8.1.30 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 |

8.1.31 ABBIED600_Rev1_PTPAnnMod

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

8.1.32 ABBIED600_Rev2_MeasMod

| Value | Description | Remarks |
|-------|-------------|--|
| 1 | RMS | Measurement mode,Selects used measurement mode |

| | | |
|---|-----------------|--|
| 2 | DFT | Measurement mode,Selects used measurement mode |
| 3 | Peak-to-Peak | Measurement mode,Selects used measurement mode |
| 4 | P-to-P + backup | Measurement mode,Selects used measurement mode |
| 5 | Wide P-to-P | Measurement mode,Selects used measurement mode |

8.1.33 ABBIED600_Rev2_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 |
| 4 | Exactly 1 of 3 | Num of phases,Number of phases required by limit supervision |
| 5 | Exactly 2 of 3 | Num of phases,Number of phases required by limit supervision |
| 6 | Exactly 3 of 3 | Num of phases,Number of phases required by limit supervision |

8.1.34 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 |

8.1.35 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 |

8.1.36 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 |

8.1.37 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 |

8.1.38 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 |

8.1.39 ABBIED600_Rev2_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 |
| 121 | Activate INTR_EF | STTPMSU1,Test control for outputs |
| 122 | Deactive INTR_EF | STTPMSU1,Test control for outputs |
| 123 | Activate PEAK_IND | STTPMSU1,Test control for outputs |
| 124 | Deactive PEAK_IND | STTPMSU1,Test control for outputs |

8.1.40 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 |

8.1.41 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 |

8.1.42 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 |

8.1.43 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 |

8.1.44 ABBIED600_Rev1_VResSigSel

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

8.1.45 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 |

8.1.46 ABBIED600_Rev1_DefHzSel

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

8.1.47 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 |

8.1.48 ABBIED600_Rev2_OpModTEF

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

8.1.49 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 |

8.1.50 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 |

8.1.51 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 |

8.1.52 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 |

8.1.53 ABBIED600_Rev1_FibMod

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

8.1.54 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 |

8.1.55 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 |
|----|--------|-------------------|

8.1.56 ABBIED600_Rev2_EthPortMod

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

8.1.57 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) |

8.1.58 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 |

8.1.59 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 |

8.1.60 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 |

8.1.61 ABBIED600_Rev3_TestCtlKind

| Value | Description | Remarks |
|-------|------------------|----------------------------------|
| 0 | Reset | DARREC1,Test control for outputs |
| 1 | Activate START | DARREC1,Test control for outputs |
| 2 | Deactive START | DARREC1,Test control for outputs |
| 3 | Activate ALARM | DARREC1,Test control for outputs |
| 4 | Deactive ALARM | DARREC1,Test control for outputs |
| 5 | Activate OPEN_CB | DARREC1,Test control for outputs |
| 6 | Deactive OPEN_CB | DARREC1,Test control for outputs |

| | | |
|----|----------------------|----------------------------------|
| 7 | Activate CLOSE_CB | DARREC1,Test control for outputs |
| 8 | Deactive CLOSE_CB | DARREC1,Test control for outputs |
| 9 | Activate CMD_WAIT | DARREC1,Test control for outputs |
| 10 | Deactive CMD_WAIT | DARREC1,Test control for outputs |
| 11 | Activate PROT_CRD | DARREC1,Test control for outputs |
| 12 | Deactive PROT_CRD | DARREC1,Test control for outputs |
| 13 | Activate INPRO | DARREC1,Test control for outputs |
| 14 | Deactive INPRO | DARREC1,Test control for outputs |
| 15 | Activate LOCKED | DARREC1,Test control for outputs |
| 16 | Deactive LOCKED | DARREC1,Test control for outputs |
| 17 | Activate UNSUC_RECL | DARREC1,Test control for outputs |
| 18 | Deactive UNSUC_RECL | DARREC1,Test control for outputs |
| 19 | Activate AR_ON | DARREC1,Test control for outputs |
| 20 | Deactive AR_ON | DARREC1,Test control for outputs |
| 21 | Activate READY | DARREC1,Test control for outputs |
| 22 | Deactive READY | DARREC1,Test control for outputs |
| 23 | Activate RAISE | DARREC1,Test control for outputs |
| 24 | Deactive RAISE | DARREC1,Test control for outputs |
| 25 | Activate LOWER | DARREC1,Test control for outputs |
| 26 | Deactive LOWER | DARREC1,Test control for outputs |
| 27 | Activate PAR_FAIL | DARREC1,Test control for outputs |
| 28 | Deactive PAR_FAIL | DARREC1,Test control for outputs |
| 29 | Activate SYNC_INPRO | DARREC1,Test control for outputs |
| 30 | Deactive SYNC_INPRO | DARREC1,Test control for outputs |
| 31 | Activate SYNC_OK | DARREC1,Test control for outputs |
| 32 | Deactive SYNC_OK | DARREC1,Test control for outputs |
| 33 | Activate CL_FAIL_AL | DARREC1,Test control for outputs |
| 34 | Deactive CL_FAIL_AL | DARREC1,Test control for outputs |
| 35 | Activate CMD_FAIL_AL | DARREC1,Test control for outputs |
| 36 | Deactive CMD_FAIL_AL | DARREC1,Test control for outputs |
| 37 | Activate LLDB | DARREC1,Test control for outputs |
| 38 | Deactive LLDB | DARREC1,Test control for outputs |
| 39 | Activate LLLB | DARREC1,Test control for outputs |
| 40 | Deactive LLLB | DARREC1,Test control for outputs |
| 41 | Activate DLLB | DARREC1,Test control for outputs |
| 42 | Deactive DLLB | DARREC1,Test control for outputs |
| 43 | Activate DLDB | DARREC1,Test control for outputs |
| 44 | Deactive DLDB | DARREC1,Test control for outputs |
| 45 | Activate ACTIVE | DARREC1,Test control for outputs |
| 46 | Deactive ACTIVE | DARREC1,Test control for outputs |
| 47 | Activate OPEN_CB1 | DARREC1,Test control for outputs |
| 48 | Deactive OPEN_CB1 | DARREC1,Test control for outputs |

| | | |
|----|--------------------|----------------------------------|
| 49 | Activate CLOSE_CB1 | DARREC1,Test control for outputs |
| 50 | Deactive CLOSE_CB1 | DARREC1,Test control for outputs |
| 51 | Activate OPEN_CB2 | DARREC1,Test control for outputs |
| 52 | Deactive OPEN_CB2 | DARREC1,Test control for outputs |
| 53 | Activate CLOSE_CB2 | DARREC1,Test control for outputs |
| 54 | Deactive CLOSE_CB2 | DARREC1,Test control for outputs |
| 55 | Activate BLKD_AL | DARREC1,Test control for outputs |
| 56 | Deactive BLKD_AL | DARREC1,Test control for outputs |

8.1.62 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 |

8.1.63 ABBIED600_Rev3_LocKeyHMI

| Value | Description | Remarks |
|-------|-------------|---------|
| | | |

| | | |
|---|---------|------------------------------|
| 0 | Off | LR state,LR state monitoring |
| 1 | Local | LR state,LR state monitoring |
| 2 | Remote | LR state,LR state monitoring |
| 3 | Station | LR state,LR state monitoring |
| 4 | L+R | LR state,LR state monitoring |
| 5 | L+S | LR state,LR state monitoring |
| 6 | L+S+R | LR state,LR state monitoring |
| 7 | S+R | LR state,LR state monitoring |

8.1.64 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 |

8.1.65 ABBIED600_Rev1_StaLevSet

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

8.1.66 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 |

8.1.67 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 |

8.1.68 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 Extented Enum types

8.2.1 ABBIED600_Rev1_HealthKind

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

8.2.2 ABBIED600_Rev1_PhaseFaultDirectionKind

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

8.2.3 ABBIED600_Rev20_TstOutKind

| Value | Description | Remarks |
|-------|------------------|-----------------------------------|
| 0 | Reset | PHIPTOC1,Test control for outputs |
| 1 | Activate START | PHIPTOC1,Test control for outputs |
| 2 | Deactive START | PHIPTOC1,Test control for outputs |
| 3 | Activate ST_A | PHIPTOC1,Test control for outputs |
| 4 | Deactive ST_A | PHIPTOC1,Test control for outputs |
| 5 | Activate ST_B | PHIPTOC1,Test control for outputs |
| 6 | Deactive ST_B | PHIPTOC1,Test control for outputs |
| 7 | Activate ST_C | PHIPTOC1,Test control for outputs |
| 8 | Deactive ST_C | PHIPTOC1,Test control for outputs |
| 9 | Activate OPERATE | PHIPTOC1,Test control for outputs |
| 10 | Deactive OPERATE | PHIPTOC1,Test control for outputs |
| 11 | Activate OPR_A | PHIPTOC1,Test control for outputs |
| 12 | Deactive OPR_A | PHIPTOC1,Test control for outputs |
| 13 | Activate OPR_B | PHIPTOC1,Test control for outputs |
| 14 | Deactive OPR_B | PHIPTOC1,Test control for outputs |
| 15 | Activate OPR_C | PHIPTOC1,Test control for outputs |
| 16 | Deactive OPR_C | PHIPTOC1,Test control for outputs |
| 17 | Activate ALARM | PHIPTOC1,Test control for outputs |
| 18 | Deactive ALARM | PHIPTOC1,Test control for outputs |

| | | |
|----|----------------------|-----------------------------------|
| 19 | Activate WARNING | PHIPTOC1,Test control for outputs |
| 20 | Deactive WARNING | PHIPTOC1,Test control for outputs |
| 21 | Activate BLK_CLOSE | PHIPTOC1,Test control for outputs |
| 22 | Deactive BLK_CLOSE | PHIPTOC1,Test control for outputs |
| 23 | reserved1 | PHIPTOC1,Test control for outputs |
| 24 | reserved2 | PHIPTOC1,Test control for outputs |
| 25 | Activate CB_FAULT_AL | PHIPTOC1,Test control for outputs |
| 26 | Deactive CB_FAULT_AL | PHIPTOC1,Test control for outputs |
| 27 | Activate TRBU | PHIPTOC1,Test control for outputs |
| 28 | Deactive TRBU | PHIPTOC1,Test control for outputs |
| 29 | Activate TRRET | PHIPTOC1,Test control for outputs |
| 30 | Deactive TRRET | PHIPTOC1,Test control for outputs |
| 31 | Activate BLK_EF | PHIPTOC1,Test control for outputs |
| 32 | Deactive BLK_EF | PHIPTOC1,Test control for outputs |
| 33 | Activate ARC_FLT_DET | PHIPTOC1,Test control for outputs |
| 34 | Deactive ARC_FLT_DET | PHIPTOC1,Test control for outputs |
| 35 | Activate BLK2H | PHIPTOC1,Test control for outputs |
| 36 | Deactive BLK2H | PHIPTOC1,Test control for outputs |
| 37 | Activate BLK2H_A | PHIPTOC1,Test control for outputs |
| 38 | Deactive BLK2H_A | PHIPTOC1,Test control for outputs |
| 39 | Activate BLK2H_B | PHIPTOC1,Test control for outputs |
| 40 | Deactive BLK2H_B | PHIPTOC1,Test control for outputs |
| 41 | Activate BLK2H_C | PHIPTOC1,Test control for outputs |
| 42 | Deactive BLK2H_C | PHIPTOC1,Test control for outputs |
| 43 | Activate TRIP | PHIPTOC1,Test control for outputs |
| 44 | Deactive TRIP | PHIPTOC1,Test control for outputs |
| 45 | Activate CL_LKOUT | PHIPTOC1,Test control for outputs |
| 46 | Deactive CL_LKOUT | PHIPTOC1,Test control for outputs |
| 47 | Activate OPEN_CB | PHIPTOC1,Test control for outputs |
| 48 | Deactive OPEN_CB | PHIPTOC1,Test control for outputs |
| 49 | Activate CLOSE_CB | PHIPTOC1,Test control for outputs |
| 50 | Deactive CLOSE_CB | PHIPTOC1,Test control for outputs |
| 51 | Activate CMD_WAIT | PHIPTOC1,Test control for outputs |
| 52 | Deactive CMD_WAIT | PHIPTOC1,Test control for outputs |
| 53 | Activate PROT_CRD | PHIPTOC1,Test control for outputs |
| 54 | Deactive PROT_CRD | PHIPTOC1,Test control for outputs |
| 55 | Activate INPRO | PHIPTOC1,Test control for outputs |
| 56 | Deactive INPRO | PHIPTOC1,Test control for outputs |
| 57 | Activate LOCKED | PHIPTOC1,Test control for outputs |
| 58 | Deactive LOCKED | PHIPTOC1,Test control for outputs |
| 59 | Activate UNSUC_RECL | PHIPTOC1,Test control for outputs |
| 60 | Deactive UNSUC_RECL | PHIPTOC1,Test control for outputs |

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| 61 | Activate AR_ON | PHIPTOC1,Test control for outputs |
| 62 | Deactive AR_ON | PHIPTOC1,Test control for outputs |
| 63 | Act. TRV_T_OP_ALM | PHIPTOC1,Test control for outputs |
| 64 | Deact. TRV_T_OP_ALM | PHIPTOC1,Test control for outputs |
| 65 | Act. TRV_T_CL_ALM | PHIPTOC1,Test control for outputs |
| 66 | Deact. TRV_T_CL_ALM | PHIPTOC1,Test control for outputs |
| 67 | Act. DIFTRVTOPALM | PHIPTOC1,Test control for outputs |
| 68 | Deact. DIFTRVTOPALM | PHIPTOC1,Test control for outputs |
| 69 | Act. DIFTRVTCLALM | PHIPTOC1,Test control for outputs |
| 70 | Deact. DIFTRVTCLALM | PHIPTOC1,Test control for outputs |
| 71 | Activate SPR_CHR_ALM | PHIPTOC1,Test control for outputs |
| 72 | Deactive SPR_CHR_ALM | PHIPTOC1,Test control for outputs |
| 73 | Activate OPR_ALM | PHIPTOC1,Test control for outputs |
| 74 | Deactive OPR_ALM | PHIPTOC1,Test control for outputs |
| 75 | Activate OPR_LO | PHIPTOC1,Test control for outputs |
| 76 | Deactive OPR_LO | PHIPTOC1,Test control for outputs |
| 77 | Activate IPOW_ALM | PHIPTOC1,Test control for outputs |
| 78 | Deactive IPOW_ALM | PHIPTOC1,Test control for outputs |
| 79 | Activate IPOW_LO | PHIPTOC1,Test control for outputs |
| 80 | Deactive IPOW_LO | PHIPTOC1,Test control for outputs |
| 81 | Activate CB_LIFE_ALM | PHIPTOC1,Test control for outputs |
| 82 | Deactive CB_LIFE_ALM | PHIPTOC1,Test control for outputs |
| 83 | Activate MON_ALM | PHIPTOC1,Test control for outputs |
| 84 | Deactive MON_ALM | PHIPTOC1,Test control for outputs |
| 85 | Activate PRES_ALM | PHIPTOC1,Test control for outputs |
| 86 | Deactive PRES_ALM | PHIPTOC1,Test control for outputs |
| 87 | Activate PRES_LO | PHIPTOC1,Test control for outputs |
| 88 | Deactive PRES_LO | PHIPTOC1,Test control for outputs |
| 89 | Activate OPENPOS | PHIPTOC1,Test control for outputs |
| 90 | Deactive OPENPOS | PHIPTOC1,Test control for outputs |
| 91 | Activate INVALIDPOS | PHIPTOC1,Test control for outputs |
| 92 | Deactive INVALIDPOS | PHIPTOC1,Test control for outputs |
| 93 | Activate CLOSEPOS | PHIPTOC1,Test control for outputs |
| 94 | Deactive CLOSEPOS | PHIPTOC1,Test control for outputs |
| 95 | Activate STR_LS_LOC | PHIPTOC1,Test control for outputs |
| 96 | Deactive STR_LS_LOC | PHIPTOC1,Test control for outputs |
| 97 | Activate STR_LS_Rem | PHIPTOC1,Test control for outputs |
| 98 | Deactive STR_LS_Rem | PHIPTOC1,Test control for outputs |
| 99 | Activate OPR_LS_LOC | PHIPTOC1,Test control for outputs |
| 100 | Deactive OPR_LS_LOC | PHIPTOC1,Test control for outputs |
| 101 | Activate OPR_LS_Rem | PHIPTOC1,Test control for outputs |
| 102 | Deactive OPR_LS_Rem | PHIPTOC1,Test control for outputs |

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| 103 | Activate OPR_HS_LOC | PHIPTOC1,Test control for outputs |
| 104 | Deactive OPR_HS_LOC | PHIPTOC1,Test control for outputs |
| 105 | Activate OPR_HS_REM | PHIPTOC1,Test control for outputs |
| 106 | Deactive OPR_HS_REM | PHIPTOC1,Test control for outputs |
| 107 | Activate RSTD2H_LOC | PHIPTOC1,Test control for outputs |
| 108 | Deactive RSTD2H_LOC | PHIPTOC1,Test control for outputs |
| 109 | Activate RSTD2H_REM | PHIPTOC1,Test control for outputs |
| 110 | Deactive RSTD2H_REM | PHIPTOC1,Test control for outputs |
| 111 | Activate PROT_ACTIVE | PHIPTOC1,Test control for outputs |
| 112 | Deactive PROT_ACTIVE | PHIPTOC1,Test control for outputs |
| 113 | Activate FAIL | PHIPTOC1,Test control for outputs |
| 114 | Deactive FAIL | PHIPTOC1,Test control for outputs |
| 115 | Activate RESTORE | PHIPTOC1,Test control for outputs |
| 116 | Deactive RESTORE | PHIPTOC1,Test control for outputs |
| 117 | Activate FUSEF_3PH | PHIPTOC1,Test control for outputs |
| 118 | Deactive FUSEF_3PH | PHIPTOC1,Test control for outputs |
| 119 | Activate FUSEF_U | PHIPTOC1,Test control for outputs |
| 120 | Deactive FUSEF_U | PHIPTOC1,Test control for outputs |
| 121 | Activate READY | PHIPTOC1,Test control for outputs |
| 122 | Deactive READY | PHIPTOC1,Test control for outputs |
| 123 | Activate RELEASE | PHIPTOC1,Test control for outputs |
| 124 | Deactive RELEASE | PHIPTOC1,Test control for outputs |
| 125 | Activate OPR_Z_EXTN | PHIPTOC1,Test control for outputs |
| 126 | Deactive OPR_Z_EXTN | PHIPTOC1,Test control for outputs |
| -1 | Activate OPR_IIT | PHIPTOC1,Test control for outputs |
| -2 | Deactive OPR_IIT | PHIPTOC1,Test control for outputs |
| -3 | Activate OPR_STALL | PHIPTOC1,Test control for outputs |
| -4 | Deactive OPR_STALL | PHIPTOC1,Test control for outputs |
| -5 | Activate MOT_START | PHIPTOC1,Test control for outputs |
| -6 | Deactive MOT_START | PHIPTOC1,Test control for outputs |
| -7 | Activate LOCK_START | PHIPTOC1,Test control for outputs |
| -8 | Deactive LOCK_START | PHIPTOC1,Test control for outputs |
| -9 | Activate BLK_RESTART | PHIPTOC1,Test control for outputs |
| -10 | Deactive BLK_RESTART | PHIPTOC1,Test control for outputs |
| -11 | Activate OPR_LS | PHIPTOC1,Test control for outputs |
| -12 | Deactive OPR_LS | PHIPTOC1,Test control for outputs |
| -13 | Activate OPR_HS | PHIPTOC1,Test control for outputs |
| -14 | Deactive OPR_HS | PHIPTOC1,Test control for outputs |
| -15 | Activate BLKD2H | PHIPTOC1,Test control for outputs |
| -16 | Deactive BLKD2H | PHIPTOC1,Test control for outputs |
| -17 | Activate BLKD5H | PHIPTOC1,Test control for outputs |
| -18 | Deactive BLKD5H | PHIPTOC1,Test control for outputs |

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| -19 | Activate BLKDWAV | PHIPTOC1,Test control for outputs |
| -20 | Deactive BLKDWAV | PHIPTOC1,Test control for outputs |
| -21 | Activate OPR_UFRQ | PHIPTOC1,Test control for outputs |
| -22 | Deactive OPR_UFRQ | PHIPTOC1,Test control for outputs |
| -23 | Activate OPR_OFRQ | PHIPTOC1,Test control for outputs |
| -24 | Deactive OPR_OFRQ | PHIPTOC1,Test control for outputs |
| -25 | Activate OPR_FRG | PHIPTOC1,Test control for outputs |
| -26 | Deactive OPR_FRG | PHIPTOC1,Test control for outputs |
| -27 | Activate ST_UFRQ | PHIPTOC1,Test control for outputs |
| -28 | Deactive ST_UFRQ | PHIPTOC1,Test control for outputs |
| -29 | Activate ST_OFRQ | PHIPTOC1,Test control for outputs |
| -30 | Deactive ST_OFRQ | PHIPTOC1,Test control for outputs |
| -31 | Activate ST_FRG | PHIPTOC1,Test control for outputs |
| -32 | Deactive ST_FRG | PHIPTOC1,Test control for outputs |
| -33 | Activate RAISE | PHIPTOC1,Test control for outputs |
| -34 | Deactive RAISE | PHIPTOC1,Test control for outputs |
| -35 | Activate LOWER | PHIPTOC1,Test control for outputs |
| -36 | Deactive LOWER | PHIPTOC1,Test control for outputs |
| -37 | Activate PAR_FAIL | PHIPTOC1,Test control for outputs |
| -38 | Deactive PAR_FAIL | PHIPTOC1,Test control for outputs |
| -39 | Activate SYNC_INPRO | PHIPTOC1,Test control for outputs |
| -40 | Deactive SYNC_INPRO | PHIPTOC1,Test control for outputs |
| -41 | Activate SYNC_OK | PHIPTOC1,Test control for outputs |
| -42 | Deactive SYNC_OK | PHIPTOC1,Test control for outputs |
| -43 | Activate CL_FAIL_AL | PHIPTOC1,Test control for outputs |
| -44 | Deactive CL_FAIL_AL | PHIPTOC1,Test control for outputs |
| -45 | Activate CMD_FAIL_AL | PHIPTOC1,Test control for outputs |
| -46 | Deactive CMD_FAIL_AL | PHIPTOC1,Test control for outputs |
| -47 | Activate LLDB | PHIPTOC1,Test control for outputs |
| -48 | Deactive LLDB | PHIPTOC1,Test control for outputs |
| -49 | Activate LLLB | PHIPTOC1,Test control for outputs |
| -50 | Deactive LLLB | PHIPTOC1,Test control for outputs |
| -51 | Activate DLLB | PHIPTOC1,Test control for outputs |
| -52 | Deactive DLLB | PHIPTOC1,Test control for outputs |
| -53 | Activate DLDB | PHIPTOC1,Test control for outputs |
| -54 | Deactive DLDB | PHIPTOC1,Test control for outputs |
| -55 | Activate ST_REST | PHIPTOC1,Test control for outputs |
| -56 | Deactive ST_REST | PHIPTOC1,Test control for outputs |
| -57 | Activate INT_BLKD | PHIPTOC1,Test control for outputs |
| -58 | Deactive INT_BLKD | PHIPTOC1,Test control for outputs |
| -59 | Activate SWELLST | PHIPTOC1,Test control for outputs |
| -60 | Deactive SWELLST | PHIPTOC1,Test control for outputs |

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| -61 | Activate DIPST | PHIPTOC1,Test control for outputs |
| -62 | Deactive DIPST | PHIPTOC1,Test control for outputs |
| -63 | Activate INTST | PHIPTOC1,Test control for outputs |
| -64 | Deactive INTST | PHIPTOC1,Test control for outputs |
| -65 | Activate COOL_ACTIVE | PHIPTOC1,Test control for outputs |
| -66 | Deactive COOL_ACTIVE | PHIPTOC1,Test control for outputs |
| -67 | Activate MN_UNB_AL | PHIPTOC1,Test control for outputs |
| -68 | Deactive MN_UNB_AL | PHIPTOC1,Test control for outputs |
| -69 | Activate PCT_UNB_AL | PHIPTOC1,Test control for outputs |
| -70 | Deactive PCT_UNB_AL | PHIPTOC1,Test control for outputs |
| -71 | Activate FAIL_CTGRP1 | PHIPTOC1,Test control for outputs |
| -72 | Deactive FAIL_CTGRP1 | PHIPTOC1,Test control for outputs |
| -73 | Activate FAIL_CTGRP2 | PHIPTOC1,Test control for outputs |
| -74 | Deactive FAIL_CTGRP2 | PHIPTOC1,Test control for outputs |
| -75 | Activate FAIL_CTGRP3 | PHIPTOC1,Test control for outputs |
| -76 | Deactive FAIL_CTGRP3 | PHIPTOC1,Test control for outputs |
| -77 | Activate OBS_PR_ACT | PHIPTOC1,Test control for outputs |
| -78 | Deactive OBS_PR_ACT | PHIPTOC1,Test control for outputs |
| -79 | Activate OPERATE_Z1 | PHIPTOC1,Test control for outputs |
| -80 | Deactive OPERATE_Z1 | PHIPTOC1,Test control for outputs |
| -81 | Activate OPERATE_Z2 | PHIPTOC1,Test control for outputs |
| -82 | Deactive OPERATE_Z2 | PHIPTOC1,Test control for outputs |
| -83 | Activate OPERATE_Z3 | PHIPTOC1,Test control for outputs |
| -84 | Deactive OPERATE_Z3 | PHIPTOC1,Test control for outputs |
| -85 | Activate OPERATE_Z4 | PHIPTOC1,Test control for outputs |
| -86 | Deactive OPERATE_Z4 | PHIPTOC1,Test control for outputs |
| -87 | Activate OPERATE_Z5 | PHIPTOC1,Test control for outputs |
| -88 | Deactive OPERATE_Z5 | PHIPTOC1,Test control for outputs |
| -89 | Activate START_Z1 | PHIPTOC1,Test control for outputs |
| -90 | Deactive START_Z1 | PHIPTOC1,Test control for outputs |
| -91 | Activate START_Z2 | PHIPTOC1,Test control for outputs |
| -92 | Deactive START_Z2 | PHIPTOC1,Test control for outputs |
| -93 | Activate START_Z3 | PHIPTOC1,Test control for outputs |
| -94 | Deactive START_Z3 | PHIPTOC1,Test control for outputs |
| -95 | Activate START_Z4 | PHIPTOC1,Test control for outputs |
| -96 | Deactive START_Z4 | PHIPTOC1,Test control for outputs |
| -97 | Activate START_Z5 | PHIPTOC1,Test control for outputs |
| -98 | Deactive START_Z5 | PHIPTOC1,Test control for outputs |
| -99 | Activate LODDSR_GFC | PHIPTOC1,Test control for outputs |
| -100 | Deactive LODDSR_GFC | PHIPTOC1,Test control for outputs |
| -101 | Activate START_GFC | PHIPTOC1,Test control for outputs |
| -102 | Deactive START_GFC | PHIPTOC1,Test control for outputs |

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| -103 | Activate ST_ALARM | PHIPTOC1,Test control for outputs |
| -104 | Deactive ST_ALARM | PHIPTOC1,Test control for outputs |
| -105 | Activate OPR_IRV | PHIPTOC1,Test control for outputs |
| -106 | Deactive OPR_IRV | PHIPTOC1,Test control for outputs |
| -107 | Activate OPR_WEI | PHIPTOC1,Test control for outputs |
| -108 | Deactive OPR_WEI | PHIPTOC1,Test control for outputs |
| -109 | Activate ECHO | PHIPTOC1,Test control for outputs |
| -110 | Deactive ECHO | PHIPTOC1,Test control for outputs |
| -111 | Activate CR | PHIPTOC1,Test control for outputs |
| -112 | Deactive CR | PHIPTOC1,Test control for outputs |
| -113 | Activate CS | PHIPTOC1,Test control for outputs |
| -114 | Deactive CS | PHIPTOC1,Test control for outputs |
| -115 | Activate CRL | PHIPTOC1,Test control for outputs |
| -116 | Deactive CRL | PHIPTOC1,Test control for outputs |
| -117 | Activate LCG | PHIPTOC1,Test control for outputs |
| -118 | Deactive LCG | PHIPTOC1,Test control for outputs |
| -119 | Activate OPR_OVLOD | PHIPTOC1,Test control for outputs |
| -120 | Deactive OPR_OVLOD | PHIPTOC1,Test control for outputs |
| -121 | Activate ST_OVLOD | PHIPTOC1,Test control for outputs |
| -122 | Deactive ST_OVLOD | PHIPTOC1,Test control for outputs |
| -123 | Activate OPR_UN_I | PHIPTOC1,Test control for outputs |
| -124 | Deactive OPR_UN_I | PHIPTOC1,Test control for outputs |
| -125 | Activate ST_UN_I | PHIPTOC1,Test control for outputs |
| -126 | Deactive ST_UN_I | PHIPTOC1,Test control for outputs |

8.2.4 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 |

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| 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 |

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| -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 |

8.2.5 ABBIED600_Rev32_ProFcn

| Value | Description | Remarks |
|-------|-------------|--------------------------------|
| -127 | PHAPTV1 | Protection,Protection function |
| -126 | PHCPTOV1 | Protection,Protection function |
| -125 | PHBPTOV1 | Protection,Protection function |
| -124 | PHAPTOV1 | Protection,Protection function |
| -123 | DPH3LPDOC2 | Protection,Protection function |
| -122 | DPH3LPDOC1 | Protection,Protection function |
| -121 | DPH3HPDOC2 | Protection,Protection function |
| -120 | DPH3HPDOC1 | Protection,Protection function |
| -119 | PH3LPTOC2 | Protection,Protection function |

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| -118 | PH3LPTOC1 | Protection,Protection function |
| -117 | XDEFLPDEF2 | Protection,Protection function |
| -116 | XDEFLPDEF1 | Protection,Protection function |
| -115 | SDPHLPDOC2 | Protection,Protection function |
| -114 | SDPHLPDOC1 | Protection,Protection function |
| -113 | XNSPTOC2 | Protection,Protection function |
| -112 | XNSPTOC1 | Protection,Protection function |
| -111 | XEFIPTOC2 | Protection,Protection function |
| -110 | XEFHPTOC4 | Protection,Protection function |
| -109 | XEFHPTOC3 | Protection,Protection function |
| -108 | XEFLPTOC3 | Protection,Protection function |
| -107 | XEFLPTOC2 | Protection,Protection function |
| -106 | MAPGAPC16 | Protection,Protection function |
| -105 | MAPGAPC15 | Protection,Protection function |
| -104 | MAPGAPC14 | Protection,Protection function |
| -103 | MAPGAPC13 | Protection,Protection function |
| -102 | MAPGAPC12 | Protection,Protection function |
| -101 | MAPGAPC11 | Protection,Protection function |
| -100 | MAPGAPC10 | Protection,Protection function |
| -99 | MAPGAPC9 | Protection,Protection function |
| -98 | RESCPSCH1 | Protection,Protection function |
| -96 | SPHIPTOC1 | Protection,Protection function |
| -93 | SPHLPTOC2 | Protection,Protection function |
| -92 | SPHLPTOC1 | Protection,Protection function |
| -89 | SPHHPTOC2 | Protection,Protection function |
| -88 | SPHHPTOC1 | Protection,Protection function |
| -87 | SPHPTUV4 | Protection,Protection function |
| -86 | SPHPTUV3 | Protection,Protection function |
| -85 | SPHPTUV2 | Protection,Protection function |
| -84 | SPHPTUV1 | Protection,Protection function |
| -83 | SPHPTOV4 | Protection,Protection function |
| -82 | SPHPTOV3 | Protection,Protection function |
| -81 | SPHPTOV2 | Protection,Protection function |
| -80 | SPHPTOV1 | Protection,Protection function |
| -79 | PH3HPTOC2 | Protection,Protection function |
| -78 | PH3HPTOC1 | Protection,Protection function |
| -77 | PH3IPTOC1 | Protection,Protection function |
| -76 | MAPGAPC18 | Protection,Protection function |
| -75 | MAPGAPC17 | Protection,Protection function |
| -74 | DOPPDPR3 | Protection,Protection function |
| -73 | DOPPDPR2 | Protection,Protection function |
| -72 | DOPPDPR1 | Protection,Protection function |

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| -70 | DUPPDPR2 | Protection,Protection function |
| -69 | DUPPDPR1 | Protection,Protection function |
| -68 | PHPVOC2 | Protection,Protection function |
| -67 | DQPTUV2 | Protection,Protection function |
| -66 | DQPTUV1 | Protection,Protection function |
| -65 | VVSPPAM1 | Protection,Protection function |
| -64 | PHPVOC1 | Protection,Protection function |
| -63 | H3EFPSEF1 | Protection,Protection function |
| -62 | SRCPTOC1 | Protection,Protection function |
| -61 | COLPTOC1 | Protection,Protection function |
| -60 | HCUBPTOC1 | Protection,Protection function |
| -59 | CUBPTOC1 | Protection,Protection function |
| -58 | UZPDIS1 | Protection,Protection function |
| -57 | FDEFLPDEF2 | Protection,Protection function |
| -56 | FDEFLPDEF1 | Protection,Protection function |
| -54 | FEFLPTOC1 | Protection,Protection function |
| -53 | FDPHLPDOC2 | Protection,Protection function |
| -52 | FDPHLPDOC1 | Protection,Protection function |
| -50 | FPHLPTOC1 | Protection,Protection function |
| -47 | MAP12GAPC8 | Protection,Protection function |
| -46 | MAP12GAPC7 | Protection,Protection function |
| -45 | MAP12GAPC6 | Protection,Protection function |
| -44 | MAP12GAPC5 | Protection,Protection function |
| -43 | MAP12GAPC4 | Protection,Protection function |
| -42 | MAP12GAPC3 | Protection,Protection function |
| -41 | MAP12GAPC2 | Protection,Protection function |
| -40 | MAP12GAPC1 | Protection,Protection function |
| -39 | UEXPDIS2 | Protection,Protection function |
| -37 | HAEFPTOC1 | Protection,Protection function |
| -36 | UEXPDIS1 | Protection,Protection function |
| -35 | WPWDE3 | Protection,Protection function |
| -34 | WPWDE2 | Protection,Protection function |
| -33 | WPWDE1 | Protection,Protection function |
| -32 | LSDPFRQ8 | Protection,Protection function |
| -31 | LSDPFRQ7 | Protection,Protection function |
| -30 | PHDSTPDIS1 | Protection,Protection function |
| -29 | TR3PTDF1 | Protection,Protection function |
| -28 | HICPDIF1 | Protection,Protection function |
| -27 | HIBPDIF1 | Protection,Protection function |
| -26 | HIAPDIF1 | Protection,Protection function |
| -25 | OEPVPH4 | Protection,Protection function |
| -24 | OEPVPH3 | Protection,Protection function |

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| -23 | OEPVPH2 | Protection,Protection function |
| -22 | OEPVPH1 | Protection,Protection function |
| -19 | PSPTOV2 | Protection,Protection function |
| -18 | PSPTOV1 | Protection,Protection function |
| -15 | PREVPTOC1 | Protection,Protection function |
| -13 | PHPTUC3 | Protection,Protection function |
| -12 | PHPTUC2 | Protection,Protection function |
| -11 | PHPTUC1 | Protection,Protection function |
| -10 | LVRTPTUV1 | Protection,Protection function |
| -9 | PHIZ1 | Protection,Protection function |
| -8 | LVRTPTUV2 | Protection,Protection function |
| -7 | INTRPTEF1 | Protection,Protection function |
| -6 | LVRTPTUV3 | Protection,Protection function |
| -5 | STTPMSU1 | Protection,Protection function |
| -4 | MREFPTOC1 | Protection,Protection function |
| -3 | JAMPTOC1 | Protection,Protection function |
| -2 | PHCPTUV1 | Protection,Protection function |
| -1 | PHBPTUV1 | Protection,Protection function |
| 0 | Unknown | Protection,Protection function |
| 1 | PHLPTOC1 | Protection,Protection function |
| 2 | PHLPTOC2 | Protection,Protection function |
| 3 | PHLPTOC3 | Protection,Protection function |
| 5 | PHLTPTOC1 | Protection,Protection function |
| 6 | PHHPTOC1 | Protection,Protection function |
| 7 | PHHPTOC2 | Protection,Protection function |
| 8 | PHHPTOC3 | Protection,Protection function |
| 9 | PHHPTOC4 | Protection,Protection function |
| 10 | PHHPTOC5 | Protection,Protection function |
| 11 | PHHPTOC6 | Protection,Protection function |
| 12 | PHIPTOC1 | Protection,Protection function |
| 13 | PHIPTOC2 | Protection,Protection function |
| 14 | MFADPSDE1 | Protection,Protection function |
| 17 | EFLPTOC1 | Protection,Protection function |
| 18 | EFLPTOC2 | Protection,Protection function |
| 19 | EFLPTOC3 | Protection,Protection function |
| 20 | EFLPTOC4 | Protection,Protection function |
| 22 | EFHPTOC1 | Protection,Protection function |
| 23 | EFHPTOC2 | Protection,Protection function |
| 24 | EFHPTOC3 | Protection,Protection function |
| 25 | EFHPTOC4 | Protection,Protection function |
| 26 | EFHPTOC5 | Protection,Protection function |
| 27 | EFHPTOC6 | Protection,Protection function |

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| 28 | EFHPTOC7 | Protection,Protection function |
| 29 | EFHPTOC8 | Protection,Protection function |
| 30 | EFIPTOC1 | Protection,Protection function |
| 31 | EFIPTOC2 | Protection,Protection function |
| 32 | EFIPTOC3 | Protection,Protection function |
| 35 | NSPTOC1 | Protection,Protection function |
| 36 | NSPTOC2 | Protection,Protection function |
| 37 | NSPTOC3 | Protection,Protection function |
| 38 | NSPTOC4 | Protection,Protection function |
| 41 | PDNSPTOC1 | Protection,Protection function |
| 44 | T1PTTR1 | Protection,Protection function |
| 45 | T1PTTR2 | Protection,Protection function |
| 46 | T2PTTR1 | Protection,Protection function |
| 48 | MPTTR1 | Protection,Protection function |
| 50 | DEFLPDEF1 | Protection,Protection function |
| 51 | DEFLPDEF2 | Protection,Protection function |
| 52 | DEFLPDEF3 | Protection,Protection function |
| 53 | DEFHPDEF1 | Protection,Protection function |
| 54 | DEFHPDEF2 | Protection,Protection function |
| 56 | EFPADM1 | Protection,Protection function |
| 57 | EFPADM2 | Protection,Protection function |
| 58 | EFPADM3 | Protection,Protection function |
| 59 | FRPFRQ1 | Protection,Protection function |
| 60 | FRPFRQ2 | Protection,Protection function |
| 61 | FRPFRQ3 | Protection,Protection function |
| 62 | FRPFRQ4 | Protection,Protection function |
| 63 | FRPFRQ5 | Protection,Protection function |
| 64 | FRPFRQ6 | Protection,Protection function |
| 65 | LSHDPFRQ1 | Protection,Protection function |
| 66 | LSHDPFRQ2 | Protection,Protection function |
| 67 | LSHDPFRQ3 | Protection,Protection function |
| 68 | LSHDPFRQ4 | Protection,Protection function |
| 69 | LSHDPFRQ5 | Protection,Protection function |
| 70 | LSHDPFRQ6 | Protection,Protection function |
| 71 | DPHLPDOC1 | Protection,Protection function |
| 72 | DPHLPDOC2 | Protection,Protection function |
| 74 | DPHHPDOC1 | Protection,Protection function |
| 75 | DPHHPDOC2 | Protection,Protection function |
| 77 | MAPGAPC1 | Protection,Protection function |
| 78 | MAPGAPC2 | Protection,Protection function |
| 79 | MAPGAPC3 | Protection,Protection function |
| 80 | MAPGAPC4 | Protection,Protection function |

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| 81 | MAPGAPC5 | Protection,Protection function |
| 82 | MAPGAPC6 | Protection,Protection function |
| 83 | MAPGAPC7 | Protection,Protection function |
| 84 | MAPGAPC8 | Protection,Protection function |
| 85 | MNSPTOC1 | Protection,Protection function |
| 86 | MNSPTOC2 | Protection,Protection function |
| 88 | LOFLPTUC1 | Protection,Protection function |
| 89 | LOFLPTUC2 | Protection,Protection function |
| 90 | TR2PTDF1 | Protection,Protection function |
| 91 | LNPLDF1 | Protection,Protection function |
| 92 | LREFPNDF1 | Protection,Protection function |
| 93 | LREFPNDF2 | Protection,Protection function |
| 94 | MPDIF1 | Protection,Protection function |
| 96 | HREFPDIF1 | Protection,Protection function |
| 97 | HREFPDIF2 | Protection,Protection function |
| 98 | MHZPDIF1 | Protection,Protection function |
| 100 | ROVPTOV1 | Protection,Protection function |
| 101 | ROVPTOV2 | Protection,Protection function |
| 102 | ROVPTOV3 | Protection,Protection function |
| 103 | ROVPTOV4 | Protection,Protection function |
| 104 | PHPTOV1 | Protection,Protection function |
| 105 | PHPTOV2 | Protection,Protection function |
| 106 | PHPTOV3 | Protection,Protection function |
| 107 | PHPTOV4 | Protection,Protection function |
| 108 | PHPTUV1 | Protection,Protection function |
| 109 | PHPTUV2 | Protection,Protection function |
| 110 | PHPTUV3 | Protection,Protection function |
| 111 | PHPTUV4 | Protection,Protection function |
| 112 | NSPTOV1 | Protection,Protection function |
| 113 | NSPTOV2 | Protection,Protection function |
| 114 | NSPTOV3 | Protection,Protection function |
| 115 | NSPTOV4 | Protection,Protection function |
| 116 | PSPTUV1 | Protection,Protection function |
| 117 | PSPTUV2 | Protection,Protection function |
| 118 | ARCSARC1 | Protection,Protection function |
| 119 | ARCSARC2 | Protection,Protection function |
| 120 | ARCSARC3 | Protection,Protection function |

8.2.6 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. |

5.2.7 ABBIED600_Rev2_AutoReclosingKind

9 Control Block Extensions

None



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