

Smart Substation Control and Protection

SSC600

IEC 61850 Ed2 Model Implementation Conformance Statement (MICS) for SSC600



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1 About this manual

1.1 Read it first!

Before attempting any operation with SSC600, read carefully the device documentation first.

This document is addressed to anyone who needs to interact with SSC600 and its IEC 61850 features in more detail.

1.2 Document information

Revision History

Revision	Date	Note
A	28 Dec 2018	SSC600 v1.0
B	30 March 2020	FP1 added
C	02 Dec 2022	FP4 added

Applicability

This manual is applicable to all SSC600 Smart Substation Control and Protection device 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 SSC600 configurations unless you are familiar with the SSC600 and its configuration tool. This might result in disoperation and loss of warranty.

Note

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



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

2 Abbreviations and Definitions

2.1 Abbreviations

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

2.2 Definitions

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

3 References

Ref	Document id	Rev	Document title
[1]	IEC 61850-8-1 Edition 2.0 2011-06		Communication networks and systems for power utility automation – Part 8-1: Specific communication service mapping (SCSM) – Mappings to MMS (ISO 9506-1 and ISO 9506-2) and to ISO/IEC 8802-3
[2]	IEC 61850-10 Edition 2.0 2012-12		Communication networks and systems for power utility automation – Part 10: Conformance testing
[3]	IEC 61850-7-2 Edition 2.0 2010-08		Communication networks and systems for power utility automation – Part 7-2: Basic information and communication structure – Abstract communication service interface (ACSI)
[4]	IEC 61850-6 Edition 2.0 2009-12		Communication networks and systems for power utility automation – Part 6: Configuration description language for communication in electrical substations related to IEDs
[5]	IEC 61850-7-3 Edition 2.0 2010-12		Communication networks and systems for power utility automation – Part 7-3: Basic communication structure – Common data classes
[6]	IEC 61850-7-4 Edition 2.0 2010-03		Communication networks and systems for power utility automation – Part 7-4: Basic communication structure – Compatible logical node classes and data object classes

4 Introduction

This document specifies the model implementation conformance statement (MICS) of the IEC 61850 communication for SSC600.

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.I5CLPRT1	IEC60870-5-101/104
	LD0.SI5CLPRT1	Secure IEC104
	LD0.I5CLPRT2	IEC60870-5-101/104
	LD0.SI5CLPRT2	Secure IEC104
	LD0.I5CLPRT3	IEC60870-5-101/104
	LD0.SI5CLPRT3	Secure IEC104
	LD0.I5CLPRT4	IEC60870-5-101/104
	LD0.SI5CLPRT4	Secure IEC104
	LD0.I5CLPRT5	IEC60870-5-101/104
	LD0.SI5CLPRT5	Secure IEC104
LTMS (ED2)	LD0.GNRLLTMS1	GNRLLTMS1,TSYNC(1)
LTMM (ED1)	LD0.GNRLLTMM1	GNRLLTMS1,TSYNC(1)
LTIM	LD0.GNRLLTIM1	GNRLLTIM1
LCCH	LD0.SCHLCCH1	Ethernet channel(s)
	LD0.RCHLCCH1	Redundant Ethernet
A: Logical nodes for automatic control		
ATCC	LD0.OLATCC1	OLATCC1,90V(1),COLTC(1)
C: Logical nodes for control		
CILO	CTRL.CBCILO1	CBXCBR1,I<->O CB(1)
	CTRL.DCCILO1	DCXSWI1,I<->O DCC(1)
	CTRL.ESCILO1	ESXSWI1,I<->O ESC(1)
CSWI	CTRL.CBCSWI1	CBXCBR1,I<->O CB(1)
	CTRL.DCCSWI1	DCXSWI1,I<->O DCC(1)
	CTRL.ESCSWI1	ESXSWI1,I<->O ESC(1)
	CTRL.DCSCSWI1	DCSXSXI1,I<->O DC(1)
	CTRL.ESSCSWI1	ESSXSXI1,I<->O ES(1)
G: Logical Nodes for generic references		
GSAL	LD0.GSAL1	Security application
GGIO	LD0.XGGIO100	X100 (PSM)
	LD0.LEDGGIO1	Programmable LEDs

	LD0.XGGIO120	X120 (AIM)
	LD0.XAGGIO130	X130 (AIM)
	LD0.XARGGIO130	X130 (AIM+RTD)
	LD0.XGGIO110	X110 (BIO)
GAPC	LD0.MVGAPC1	MVGAPC1,MV(1)
	LD0.SRGAPC1	SRGAPC1,SR(1)
	LD0.TONGAPC1	TONGAPC1,TON(1)
	LD0.TOFGAPC1	TOFGAPC1,TOF(1)
	LD0.PTGAPC1	PTGAPC1,PT(1)
	LD0.SCA4GAPC1	SCA4GAPC1,SCA4(1)
	LD0.MVI4GAPC1	MVI4GAPC1,MVI4(1)
	LD0.TPGAPC1	TPGAPC1,TP(1)
	LD0.TPSGAPC1	TPSGAPC1,TPS(1)
	LD0.TPMGAPC1	TPMGAPC1,TPM(1)
	LD0.SPCGAPC1	SPCGAPC1,SPC(1)
	LD0.MAPGAPC1	MAPGAPC1,MAP(1)
	LD0.ESMGAPC1	ESMGAPC1,ESTART(1)
	LD0.ANOGAPC1	ANOGAPC1,ANOGAPC(1)
I:Logical Nodes for archiving		
IHMI	LD0.IHMI1	Device
M:Logical Nodes for metering and measurement		
MMXU	LD0.VMMXU1	VMMXU1,3V(1),3U(1)
	LD0.VAVMMXU1	VMMXU1,3V(1),3U(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.CMMXU1	CMMXU1,3I(1)
	LD0.CAVMMXU1	CMMXU1,3I(1)
	LD0.CMAMMXU1	CMMXU1,3I(1)
	LD0.CMIMMXU1	CMMXU1,3I(1)
	LD0.RESCMMXU1	RESCMMXU1,ln(1),lo(1)
	LD0.RCAVMMXU1	RESCMMXU1,ln(1),lo(1)
	LD0.RCMAMMXU1	RESCMMXU1,ln(1),lo(1)
	LD0.RCMIMMXU1	RESCMMXU1,ln(1),lo(1)
	LD0.PEMMXU1	PEMMXU1,P,E(1)
	LD0.PEAVMMXU1	PEMMXU1,P,E(1)
	LD0.PEMAMMXU1	PEMMXU1,P,E(1)
	LD0.PEMIMMXU1	PEMMXU1,P,E(1)
	LD0.FMMXU1	FMMXU1,f(1)
	LD0.DOPMMXU1	DOPDPR1,32R/32O(1),P>/Q>(1)
	LD0.WMMXU1	WPWDE1,32N(1),Po>->(1)

	LD0.DQMMXU1	DQPTUV1,32Q,27(1),Q>->,3U<(1)
	LD0.UZMMXU1	UZMMXU1
	LD0.LBMMXU1	LBRDOB1,21LB(1),LB(1)
MSQI	LD0.VSMSQI1	VSMSQI1,V1,V2,V0(1),U1,U2,U0(1)
	LD0.CSMSQI1	CSMSQI1,I1,I2,I0(1)
MMTR	LD0.PEMMTR1	PEMMXU1,P,E(1)
MHAI	LD0.VMHAI1	VMHAI1,PQM3V(1),PQM3U(1)
	LD0.CMHAI1	CMHAI1,PQM3I(1)
MSWI	LD0.CMSWI1	CMSWI1,CSWI(1)
	LD0.VMSWI1	VMSWI1,VSWI(1)
P:Logical Nodes for protection functions		
PTRC	LD0.LEDPTRC1	Global conditioning
	LD0.FRPTRC1	FRPFRQ1,81(1),f>/f
	LD0.TRPPTRC1	TRPPTRC1,94/86(1),Master Trip(1)
	LD0.ARCPTRC1	ARCSARC1,50L/50NL(1),ARC(1)
	LD0.LSHDPTRC1	LSHDPFQR1,81LSH(1),UFLS/R(1)
	LD0.TR2PTRC1	TR2PTDF1,87T(1),3dl>T(1)
	LD0.BBPTRC1	BBPBDF1,87BL,3dl/I
PTOC	LD0.PHLPTOC1	PHLPTOC1,51P-1(1),3I>(1)
	LD0.PHHPTOC1	PHHPTOC1,51P-2(1),3I>>(1)
	LD0.PHIPTOC1	PHIPTOC1,50P/51P(1),3I>>>(1)
	LD0.EFLPTOC1	EFLPTOC1,51N-1(1),lo>(1)
	LD0.EFHPTOC1	EFHPTOC1,51N-2(1),lo>>(1)
	LD0.EFIPTOC1	EFIPTOC1,50N/51N(1),lo>>>(1)
	LD0.NSPTOC1	NSPTOC1,46(1),I2>(1)
	LD0.DPHLPTOC1	DPHLPDOC1,67-1(1),3I>->(1)
	LD0.DPHHPDOC1	DPHHPDOC1,67-2(1),3I>>->(1)
	LD0.DEFLPTOC1	DEFLPDEF1,67N-1(1),lo>->(1)
	LD0.DEFHPTOC1	DEFHPDEF1,67N-2(1),lo>>->(1)
	LD0.PDNSPTOC1	PDNSPTOC1,46PD(1),I2/I1>(1)
	LD0.MNSPTOC1	MNSPTOC1,46M(1),I2>M(1)
	LD0.JAMPTOC1	JAMPTOC1,51LR(1),Ist>(1)
	LD0.PREVPTOC1	PREVPTOC1,46R(1),I2>>(1)
	LD0.COL1PTOC1	COLPTOC1,51C/37(1),3I>3I<(1)
	LD0.COL2PTOC1	COLPTOC1,51C/37(1),3I>3I<(1)
	LD0.CUB1PTOC1	CUBPTOC1,51NC-1(1),dl>C(1)
	LD0.CUB2PTOC1	CUBPTOC1,51NC-1(1),dl>C(1)
	LD0.HCUB1PTOC1	HCUBPTOC1,51NC-2(1),3dl>C(1)
	LD0.HCUB2PTOC1	HCUBPTOC1,51NC-2(1),3dl>C(1)
	LD0.SRC1PTOC1	SRCPTOC1,55TD(1),TD>(1)
	LD0.SRC2PTOC1	SRCPTOC1,55TD(1),TD>(1)
PTOV	LD0.ROVPTOV1	ROVPTOV1,59G(1),Uo>(1)

	LD0.PHPTOV1	PHPTOV1,59(1),3U>(1)
	LD0.NSPTOV1	NSPTOV1,47O-(1),U2>(1)
PTUV	LD0.PHPTUV1	PHPTUV1,27(1),3U<(1)
	LD0.PSPTUV1	PSPTUV1,47U+(1),U1<(1)
	LD0.DQPTUV1	DQPTUV1,32Q,27(1),Q>->,3U<(1)
	LD0.LVRTPTUV1	LVRTPTUV1,27RT(1),U<RT(1)
PTOF	LD0.FRPTOF1	FRPFRQ1,81(1),f>/f
	LD0.LSHDPTOF1	LSHDPFRQ1,81LSH(1),UFLS/R(1)
PTUF	LD0.FRPTUF1	FRPFRQ1,81(1),f>/f
	LD0.LSHDPTUF1	LSHDPFRQ1,81LSH(1),UFLS/R(1)
PFRC	LD0.FRPFRQ1	FRPFRQ1,81(1),f>/f
	LD0.LSHDPFRQ1	LSHDPFRQ1,81LSH(1),UFLS/R(1)
PHAR	LD0.INRPHAR1	INRPHAR1,68(1),3I2f>(1)
	LD0.TR2H2PHAR1	TR2PTDF1,87T(1),3dl>T(1)
	LD0.TR2H5PHAR1	TR2PTDF1,87T(1),3dl>T(1)
	LD0.LREFPHAR1	LREFPND1,87NL(1),dlLo>(1)
PSOF	LD0.CBPSOF1	CBPSOF1,SOTF(1)
PDOP	LD0.DPPDOP1	DOPPDPR1,32R/32O(1),P>/Q>(1)
	LD0.DQPDOP1	DQPTUV1,32Q,27(1),Q>->,3U<(1)
PTTR	LD0.T1PTTR1	T1PTTR1,49F(1),3lth>F(1)
	LD0.MPTTR1	MPTTR1,49M(1),3lth>M(1)
	LD0.T2PTTR1	T2PTTR1,49T/G/C(1),3lth>T/G/C(1)
PADM	LD0.EFPADM1	EFPADM1,21YN(1),Yo>->(1)
PSDE	LD0.MFADPSDE1	MFADPSDE1,67YN(1),lo>->Y(1)
	LD0.WPSDE1	WPWDE1,32N(1),Po>->(1)
PTEF	LD0.INTRPTEF1	INTRPTEF1,67NIEF(1),lo>->IEF(1)
PIOC	LD0.ARC1PIOC1	ARCSARC1,50L/50NL(1),ARC(1)
	LD0.ARC2PIOC1	ARCSARC1,50L/50NL(1),ARC(1)
PTUC	LD0.LOFLPTUC1	LOFLPTUC1,37(1),3I<(1)
	LD0.COLPTUC1	COLPTOC1,51C/37(1),3I>3I<(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)
PDIF	LD0.TR2LPDIF1	TR2PTDF1,87T(1),3dl>T(1)
	LD0.TR2HPDIF1	TR2PTDF1,87T(1),3dl>T(1)
	LD0.LREFPDIF1	LREFPND1,87NL(1),dlLo>(1)
	LD0.ZNAPDIF1	BBPBDF1,87BL,3ld/I
	LD0.ZNBPDIF1	BBPBDF1,87BL,3ld/I
	LD0.ZNCZPDIF1	BBPBDF1,87BL,3ld/I
	LD0.SFAPDIF1	BBPBDF1,87BL,3ld/I
	LD0.SFBPDIF1	BBPBDF1,87BL,3ld/I
PDIS	LD0.UZPDIS1	UZPDIS1,21G(1),Z<G(1)
	LD0.GFCPDIS1	DSTPDIS1,21P(1),Z<(1)

	LD0.DST1PDIS1	DSTPDIS1,21P(1),Z<(1)
	LD0.DST2PDIS1	DSTPDIS1,21P(1),Z<(1)
	LD0.DST3PDIS1	DSTPDIS1,21P(1),Z<(1)
	LD0.DST4PDIS1	DSTPDIS1,21P(1),Z<(1)
	LD0.DST5PDIS1	DSTPDIS1,21P(1),Z<(1)
Q:Logical nodes for power quality events		
QVVR	LD0.PH1QVVR1	PHQVVR1,PQMV(1),PQMU(1)
	LD0.PH2QVVR1	PHQVVR1,PQMV(1),PQMU(1)
	LD0.PH3QVVR1	PHQVVR1,PQMV(1),PQMU(1)
QVUB	LD0.VSQVUB1	VSQVUB1,PQVUB(1),PQUUB(1)
R:Logical nodes for protection related functions		
RFRC	LD0.FLTRFRC1	FLTRFRC1,FaultRec1
	LD0.FLO1RFRC1	SCEFRFLO1,21FL(1),FLOC(1)
	LD0.GFC1RFRC1	DSTPDIS1,21P(1),Z<(1)
	LD0.GFC2RFRC1	DSTPDIS1,21P(1),Z<(1)
	LD0.GFC3RFRC1	DSTPDIS1,21P(1),Z<(1)
RBRF	LD0.CCBBRF1	CCBBRF1,51BF/51NBF(1),3I>/Io>BF(1)
RDIR	LD0.DPHLRDIR1	DPHLPDOC1,67-1(1),3I>->(1)
	LD0.DPHHRDIR1	DPHHPDOC1,67-2(1),3I>>->(1)
	LD0.DEFLRDIR1	DEFLPDEF1,67N-1(1),Io>->(1)
	LD0.DEFHRDIR1	DEFHPDEF1,67N-2(1),Io>>->(1)
	LD0.MFADRDIR1	MFADRDIR1
	LD0.WRDIR1	WPWDE1,32N(1),Po>->(1)
	LD0.GFCRDIR1	DSTPDIS1,21P(1),Z<(1)
	LD0.DSTRDIR1	DSTPDIS1,21P(1),Z<(1)
RREC	LD0.DARREC1	DARREC1,79(1),O->I(1)
RSYN	LD0.SECRSYN1	SECRSYN1,25(1),SYNC(1)
RFLO	LD0.SCEFRFLO1	SCEFRFLO1,21FL(1),FLOC(1)
RQRC	LD0.QV1RQRC1	PHQVVR1,PQMV(1),PQMU(1)
	LD0.QV2RQRC1	PHQVVR1,PQMV(1),PQMU(1)
	LD0.QV3RQRC1	PHQVVR1,PQMV(1),PQMU(1)
	LD0.QVU1RQRC1	VSQVUB1,PQVUB(1),PQUUB(1)
	LD0.QVU2RQRC1	VSQVUB1,PQVUB(1),PQUUB(1)
	LD0.QVU3RQRC1	VSQVUB1,PQVUB(1),PQUUB(1)
RSRC	LD0.ZNRSRC1	ZNRSRC1
RDOB	LD0.LBRDOB1	LBRDOB1,21LB(1),LB(1)
RDRE	DR.RDRE1	Disturbance recorder
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
RBDR	DR.RBDR1	Binary channel
S:Logical nodes for supervision and monitoring		
SCBR	LD0.SSCBR1	SSCBR1,CBCM(1)
	LD0.SPH1SCBR1	SPH1SCBR1
	LD0.SPH2SCBR1	SPH2SCBR1
	LD0.SPH3SCBR1	SPH3SCBR1
SIMG	LD0.SSIMG1	SSIMG1
SOPM	LD0.SSOPM1	SSOPM1
SOPT	LD0.MDSOPT1	MDSOPT1,OPTM(1),OPTS(1)
SPVC	LD0.SEQSPVC1	SEQSPVC1,60(1),FUSEF(1)
	LD0.BBCCSPVC1	BBPBDF1,87BL,3Id/I
SARC	LD0.ARCARC1	ARCARC1,50L/50NL(1),ARC(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)
	LD0.SVIL1TCTR1	SMVRECEIVE1
	LD0.SVIL2TCTR1	SMVRECEIVE1
	LD0.SVIL3TCTR1	SMVRECEIVE1
	LD0.SVRESTCTR1	Current (Io,SMVCT)
	LD0.SIL1TCTR1	CMSUM1,CSUM(1)
	LD0.SIL2TCTR1	CMSUM1,CSUM(1)
	LD0.SIL3TCTR1	CMSUM1,CSUM(1)
	LD0.SRESTCTR1	CMSUM1,CSUM(1)
TVTR	LD0.UL1TVTR1	Voltage (3U,VT)
	LD0.UL2TVTR1	Voltage (3U,VT)
	LD0.UL3TVTR1	Voltage (3U,VT)
	LD0.RESTVTR1	Voltage (Uo,VT)
	LD0.UL1TVTR2	Voltage (3UB,VT)
	LD0.UL2TVTR2	Voltage (3UB,VT)
	LD0.UL3TVTR2	Voltage (3UB,VT)
	LD0.SVUL1TVTR1	SMVRECEIVE1
	LD0.SVUL2TVTR1	SMVRECEIVE1

	LD0.SVUL3TVTR1	SMVRECEIVE1
	LD0.SVRESTVTR1	Voltage (Uo,SMVVT)
X:Logical Nodes for switchgear		
XCBR	CTRL.CBXCBR1	CBXCBR1,I<->O CB(1)
XSWI	CTRL.DCXSWI1	DCXSWI1,I<->O DCC(1)
	CTRL.ESXSWI1	ESXSWI1,I<->O ESC(1)
	CTRL.DCSXSWI1	DCSXSWI1,I<->O DC(1)
	CTRL.ESSXSWI1	ESSXSWI1,I<->O ES(1)
Y:Logical nodes for power transformers		
YLTC	LD0.TPOSYLTC1	TPOSYLTC1,84M(1),TPOSM(1)
Z:Logical nodes for further power system equipment		
ZLIN	LD0.SCEF1ZLIN1	SCEFRFLO1,21FL(1),FLOC(1)
	LD0.SCEF2ZLIN1	SCEFRFLO1,21FL(1),FLOC(1)
	LD0.SCEF3ZLIN1	SCEFRFLO1,21FL(1),FLOC(1)

6 Logical Node Extensions

6.1 Logical Nodes

6.1.1 LN: LINF1 Name: LINF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Beh	ABBIED600_Rev5_ENS_beh_e	Behaviour	E	IEC 61850-7-4:2007
NamPlt	AB-BIED600_Rev5_LPL_LD0_LINF_ED2_e	Name plate	E	IEC 61850-7-4:2007
UnitNam	ABBIED600_Rev3_VSG_2_20_e	Name of the bay	E	ABBIED600:2014
CfgNam	ABBIED600_Rev2_VSG_1_20_e	IED configuration name	E	ABBIED600:2014
DevRev	ABBIED600_Rev2_VSG_1_64_e	Product version number	E	ABBIED600:2014
CstNam	ABBIED600_Rev1_VSG_2_64_e	Name of the customer	E	ABBIED600:2014
CstStNam	ABBIED600_Rev1_VSG_2_64_e	Name of the state	E	ABBIED600:2014
CstStreNam	ABBIED600_Rev1_VSG_2_64_e	Name of the street	E	ABBIED600:2014
CstHouNum	ABBIED600_Rev1_VSG_2_64_e	Number of the house	E	ABBIED600:2014
CstZip	ABBIED600_Rev3_VSG_2_20_e	ZIP/Postal code	E	ABBIED600:2014
CstCityNam	ABBIED600_Rev1_VSG_2_64_e	City/Province	E	ABBIED600:2014
CstCntyNam	ABBIED600_Rev1_VSG_2_64_e	Name of the country	E	ABBIED600:2014

6.1.2 LN: LDEV1 Name: LDEV (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Beh	ABBIED600_Rev5_ENS_beh_e	Behaviour	E	IEC 61850-7-4:2007

NamPlt	AB-BIED600_Rev4_LPL_LD0_LDEV_ED2_e	Name plate	E	IEC 61850-7-4:2007
IPAddr	ABBIED600_Rev3_VSG_2_20_e	IP address for rear port(s)	E	ABBIED600:2014
IPAddrSub-Ntw	ABBIED600_Rev3_VSG_2_20_e	Subnet mask for rear port(s)	E	ABBIED600:2014
IPAddrGtw	ABBIED600_Rev3_VSG_2_20_e	Default gateway for rear port(s)	E	ABBIED600:2014
IPAddrFrt	ABBIED600_Rev2_VSG_1_20_e	IP address for local port (fixed)	E	ABBIED600:2014
IPAddrRem	ABBIED600_Rev2_VSG_1_20_e	IP address for remote port (fixed)	E	ABBIED600:2014
Mac1	ABBIED600_Rev2_VSG_1_20_e	Mac address for rear port(s)	E	ABBIED600:2014
Mac2	ABBIED600_Rev2_VSG_1_20_e	Mac address for local port	E	ABBIED600:2014
SwrNum	ABBIED600_Rev1_LPL_VSS_1_20	SW		
OrdNum	ABBIED600_Rev1_LPL_VSS_1_20	Order number		
WrmStrDet	ABBIED600_Rev1_SPS	Warm start detected		
WacTrgDet	ABBIED600_Rev1_SPS	Watchdog reset detected		
DevWrn	ABBIED600_Rev12_ENS_warning	Warning		
DevFail	ABBIED600_Rev15_ENS_error	Internal Fault		
StLstOv	ABBIED600_Rev1_SPS_e	Status overflow	E	ABBIED600:2014
MeasLstOv	ABBIED600_Rev1_SPS_e	Meas overflow	E	ABBIED600:2014
ChgAckCnt	ABBIED600_Rev1_INS_retain_e	Number of composition changes	E	ABBIED600:2014
ChgFlg	ABBIED600_Rev2_INC_control_int_e	Composition has changed	E	ABBIED600:2014,status-only,direct-with-normal-security
WrmStrCmd	ABBIED600_Rev2_SPC_control_e	Reset device	E	ABBIED600:2014,status-only,direct-with-normal-security
FailTest	ABBIED600_Rev2_SPC_control_e	Internal fault test	E	ABBIED600:2014,status-only,direct-with-normal-security
BlkMod	ABBIED600_Rev2_ENG_SP_BlMod_e	Global blocking mode selection	E	ABBIED600:2014
HzSetSel	ABBIED600_Rev2_ENG_SP_HzSet_e	Rated frequency	E	ABBIED600:2014
PhRotSet	ABBIED600_Rev2_ENG_SP_PhRotSet_e	Phase rotation order	E	ABBIED600:2014
SetSeld	ABBIED600_Rev1_SPS_e	Settings reservation	E	ABBIED600:2014

SetChg	ABBIED600_Rev1_SPS_e	Settings change	E	ABBIED600:2014
ACrvSatPnt	ABBIED600_Rev1_AS_G_SP_f_e	Overcurrent IDMT saturation point	E	ABBIED600:2014
ADmdAvMod	ABBIED600_Rev2_ENG_SP_DmdAv-Mod_e	A demand Av mode	E	ABBIED600:2014
MtrDmdltrv	ABBIED600_Rev2_ENG_SP_dmdltrv_e	Demand interval	E	ABBIED600:2014
ModRemCtl	AB- BIED600_Rev2_ENG_SP_ModRemCtrl_e	Authority for remote activation of test mode	E	ABBIED600:2014
LangSel	ABBIED600_Rev5_ENG_SP_Languages_e	Language selection	E	ABBIED600:2014
Contr	ABBIED600_Rev1_ING_SP_1_e	Contrast selection	E	ABBIED600:2014
NumFrm	ABBIED600_Rev1_ING_SP_1_e	NUMf	E	ABBIED600:2014
TmFrm	ABBIED600_Rev2_ENG_SP_FormatTime_e	Time format	E	ABBIED600:2014
DateFrm	ABBIED600_Rev2_ENG_SP_FormatDate_e	Date format	E	ABBIED600:2014
NamConv	ABBIED600_Rev2_ENG_SP_NamingConvention_e	FB naming convention	E	ABBIED600:2014
ConnExpTm	ABBIED600_Rev1_ING_SP_1_e	Web HMI timeout	E	ABBIED600:2014
EvtLstClr	ABBIED600_Rev2_SPC_control_e	Event clear	E	ABBIED600:2014,status-only,direct-with-normal-security
SLDSymFrm	ABBIED600_Rev2_ENG_SP_SLDSymbolFormat_e	SLD symbol format	E	ABBIED600:2014
IPSvc	ABBIED600_Rev3_VSG_2_20_e	Service port IP address	E	ABBIED600:2014
IPSubNtwSvc	ABBIED600_Rev3_VSG_2_20_e	Service port subnet mask	E	ABBIED600:2014
Mac3	ABBIED600_Rev2_VSG_1_20_e	Remote port MAC address	E	ABBIED600:2014
Mac4	ABBIED600_Rev2_VSG_1_20_e	Service port MAC address	E	ABBIED600:2014
EnaSvcPort	ABBIED600_Rev1_SPG_SP_e	Enable service port	E	ABBIED600:2014
EnaRemPort	ABBIED600_Rev1_SPG_SP_e	Enable remote port	E	ABBIED600:2014
UALogEna	ABBIED600_Rev2_ENG_SP_Enable_e	Authority Logging 1	E	ABBIED600:2014
UALogEna2	ABBIED600_Rev2_ENG_SP_Enable_e	Authority Logging 2	E	ABBIED600:2014
SrvrIPAdr	ABBIED600_Rev3_VSG_2_20_e	Remote Server IP	E	ABBIED600:2014
SrvrIPAdr2	ABBIED600_Rev3_VSG_2_20_e	Remote Server IP 2	E	ABBIED600:2014

CommType	ABBIED600_Rev1_ENG_SP_Ual-CommConnTyp_e	Connection Type	E	ABBIED600:2014
CommType2	ABBIED600_Rev1_ENG_SP_Ual-CommConnTyp_e	Connection Type 2	E	ABBIED600:2014
CommPort	ABBIED600_Rev1_ING_SP_1_e	port for communication	E	ABBIED600:2014
CommPort2	ABBIED600_Rev1_ING_SP_1_e	port for communication 2	E	ABBIED600:2014
LglMsg	ABBIED600_Rev1_VSG_3_255_e	Logon legal message	E	ABBIED600:2014
LogonPg-Mod	ABBIED600_Rev1_ENG_SP_LogonPg-Kind_e	Web HMI logon page mode	E	ABBIED600:2014

6.1.3 LN: GSELPRT1 Name: LPRT (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Beh	ABBIED600_Rev5_ENS_beh_e	Behaviour	E	IEC 61850-7-4:2007
NamPlt	ABBIED600_Rev1_LPL_InNs_1_e	Name plate	E	IEC 61850-7-4:2007
FrRxCnt	ABBIED600_Rev1_INS	Received msgs		
FrTxCnt	ABBIED600_Rev1_INS	Transmitted Messages		
RxStCnt	ABBIED600_Rev1_INS	Received State Changes		
RxSeqCnt	ABBIED600_Rev1_INS	Received Sequence Number		
RxTestCnt	ABBIED600_Rev1_INS	Received frames with Test bit		
StWrnCnt	ABBIED600_Rev1_INS	State warnings		
SeqWrnCnt	ABBIED600_Rev1_INS	Sequence warnings		
RxTmOutCnt	ABBIED600_Rev1_INS	Receiver Timeouts		
ConfErrCnt	ABBIED600_Rev1_INS	Received ConfRev mismatches		
NdsComCnt	ABBIED600_Rev1_INS	Received frames with NeedsCommissioning bit		
DSErrCnt	ABBIED600_Rev1_INS	Errors in received dataset		
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	IEC 61850-7-4:2007
CntRs	ABBIED600_Rev2_SPC_control_e	Goose counters reset	E	ABBIED600:2014,status-only,direct-with-normal-security
RxSimCnt	ABBIED600_Rev1_INS	Received frames with Simulation bit		
RxSim	ABBIED600_Rev1_SPS	Receiving frames with Simulation bit		
TxStCnt	ABBIED600_Rev1_INS	Sent state changes		

6.1.4 LN: MMSLPRT1 Name: LPRT (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Beh	ABBIED600_Rev5_ENS_beh_e	Behaviour	E	IEC 61850-7-4:2007
NamPlt	ABBIED600_Rev4_LPL_mms_e	Name plate	E	IEC 61850-7-4:2007
SucConn	ABBIED600_Rev1_INS	Successful Connections		
FailConn	ABBIED600_Rev1_INS	Failed Connections		
ConcCnt	ABBIED600_Rev1_INS	Concludes		
TxAbtCnt	ABBIED600_Rev1_INS	Sent Aborts		
RxAbtCnt	ABBIED600_Rev1_INS	Received Aborts		
TxRejCnt	ABBIED600_Rev1_INS	Sent Rejects		
RxRqCnt	ABBIED600_Rev1_INS	Received Request		
FailRqCnt	ABBIED600_Rev1_INS	Failed Requests		
SucReaCnt	ABBIED600_Rev1_INS	Successful Reads		
FailReaCnt	ABBIED600_Rev1_INS	Failed Reads		
SucWrCnt	ABBIED600_Rev1_INS	Successful Writes		
FailWrCnt	ABBIED600_Rev1_INS	Failed Writes		
InfRpCnt	ABBIED600_Rev1_INS	Information Reports		
ActConnCnt	ABBIED600_Rev1_INS	Active Connections		
UnitMod	ABBIED600_Rev2_ENG_SP_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	IEC 61850-7-4:2007
CliIP1	ABBIED600_Rev1_LPL_VSS_1_20	Client 1 IP address		
CliIP2	ABBIED600_Rev1_LPL_VSS_1_20	Client 2 IP address		
CliIP3	ABBIED600_Rev1_LPL_VSS_1_20	Client 3 IP address		
CliIP4	ABBIED600_Rev1_LPL_VSS_1_20	Client 4 IP address		
CliIP5	ABBIED600_Rev1_LPL_VSS_1_20	Client 5 IP address		

6.1.5 LN: FLTRFRC1 Name: RFRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_Of-fOn_FD_e	Mode	E	IEC 61850-7-4:2007,status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh_e	Behaviour	E	IEC 61850-7-4:2007
NamPlt	ABBIED600_Rev1_LPL_InNs_1_e	Name plate	E	IEC 61850-7-4:2007

Hz	ABBIED600_Rev4_MV_simple_i_e	Frequency	E	IEC 61850-7-4:2007
FitPtR	ABBIED600_Rev4_MV_simple_i	Fault resistance		
FitDiskm	ABBIED600_Rev4_MV_simple_i_e	Distance to fault measured in pu	E	IEC 61850-7-4:2007
OpCnt	ABBIED600_Rev1_INS_e	time	E	IEC 61850-7-4:2007
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	IEC 61850-7-4:2007
InOp	ABBIED600_Rev1_SPS	Operate input for triggering		
InStr	ABBIED600_Rev1_SPS	Start input for triggering		
RcdRs	ABBIED600_Rev2_SPC_control	Reset fault records		status-only,direct-with-normal-security
SelRow	ABBIED600_Rev2_INC_all_rights	Select recording		status-only,direct-with-normal-security
TrgSet	ABBIED600_Rev2_ENG_SP_Trg-Set	Triggering mode		
AMeasMod	ABBIED600_Rev3_ENG_SP_Meas-Mod	A measurement mode		
ProFcn	ABBIED600_Rev35_ENS_ProFcn	Protection function		
ProFcnInst	ABBIED600_Rev1_INS	Protection function instance		
StrDur	ABBIED600_Rev4_MV_2	Maximum start duration of all stages during the fault		
StrOpTm	ABBIED600_Rev4_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_Rev4_MV_simple_i	Maximum differential current phase A		
Max50DifAB	ABBIED600_Rev4_MV_simple_i	Maximum differential current phase B		
Max50DifAC	ABBIED600_Rev4_MV_simple_i	Maximum differential current phase C		
Max50RstAA	ABBIED600_Rev4_MV_simple_i	Maximum bias current phase A		
Max50RstAB	ABBIED600_Rev4_MV_simple_i	Maximum bias current phase B		
Max50RstAC	ABBIED600_Rev4_MV_simple_i	Maximum bias current phase C		
DifAPhsA	ABBIED600_Rev4_MV_simple_i	Differential current phase A		
DifAPhsB	ABBIED600_Rev4_MV_simple_i	Differential current phase B		
DifAPhsC	ABBIED600_Rev4_MV_simple_i	Differential current phase C		
RstAPhsA	ABBIED600_Rev4_MV_simple_i	Bias current phase A		
RstAPhsB	ABBIED600_Rev4_MV_simple_i	Bias current phase B		

RstAPhsC	ABBIED600_Rev4_MV_simple_i	Bias current phase C		
DifARes	ABBIED600_Rev4_MV_simple_i	Differential current residual		
RstARes	ABBIED600_Rev4_MV_simple_i	Bias current residual		
Max50APhsA1	ABBIED600_Rev4_MV_simple_i	Maximum phase A current		
Max50APhsB1	ABBIED600_Rev4_MV_simple_i	Maximum phase B current		
Max50APhsC1	ABBIED600_Rev4_MV_simple_i	Maximum phase C current		
Max50ARes1	ABBIED600_Rev4_MV_simple_i	Maximum residual current		
APhsA1	ABBIED600_Rev4_MV_simple_i	Phase A current		
APhsB1	ABBIED600_Rev4_MV_simple_i	Phase B current		
APhsC1	ABBIED600_Rev4_MV_simple_i	Phase C current		
ARes1	ABBIED600_Rev4_MV_simple_i	Residual current		
AResClc1	ABBIED600_Rev4_MV_simple_i	Calculated residual current		
APsSeq1	ABBIED600_Rev4_MV_simple_i	Positive sequence current		
ANgSeq1	ABBIED600_Rev4_MV_simple_i	Negative sequence current		
Max50APhsA2	ABBIED600_Rev4_MV_simple_i	Maximum phase A current (b)		
Max50APhsB2	ABBIED600_Rev4_MV_simple_i	Maximum phase B current (b)		
Max50APhsC2	ABBIED600_Rev4_MV_simple_i	Maximum phase C current (b)		
Max50ARes2	ABBIED600_Rev4_MV_simple_i	Maximum residual current (b)		
APhsA2	ABBIED600_Rev4_MV_simple_i	Phase A current (b)		
APhsB2	ABBIED600_Rev4_MV_simple_i	Phase B current (b)		
APhsC2	ABBIED600_Rev4_MV_simple_i	Phase C current (b)		
ARes2	ABBIED600_Rev4_MV_simple_i	Residual current (b)		
AResClc2	ABBIED600_Rev4_MV_simple_i	Calculated residual current (b)		
APsSeq2	ABBIED600_Rev4_MV_simple_i	Positive sequence current (b)		
ANgSeq2	ABBIED600_Rev4_MV_simple_i	Negative sequence current (b)		
Max50APhsA3	ABBIED600_Rev4_MV_simple_i	Maximum phase A current (c)		
Max50APhsB3	ABBIED600_Rev4_MV_simple_i	Maximum phase B current (c)		
Max50APhsC3	ABBIED600_Rev4_MV_simple_i	Maximum phase C current (c)		
Max50ARes3	ABBIED600_Rev4_MV_simple_i	Maximum residual current (c)		

APhsA3	ABBIED600_Rev4_MV_simple_i	Phase A current (c)		
APhsB3	ABBIED600_Rev4_MV_simple_i	Phase B current (c)		
APhsC3	ABBIED600_Rev4_MV_simple_i	Phase C current (c)		
ARes3	ABBIED600_Rev4_MV_simple_i	Residual current (c)		
AResClc3	ABBIED600_Rev4_MV_simple_i	Calculated residual current (c)		
APsSeq3	ABBIED600_Rev4_MV_simple_i	Positive sequence current (c)		
ANgSeq3	ABBIED600_Rev4_MV_simple_i	Negative sequence current (c)		
PhVPhsA1	ABBIED600_Rev4_MV_simple_i	Phase A voltage		
PhVPhsB1	ABBIED600_Rev4_MV_simple_i	Phase B voltage		
PhVPhsC1	ABBIED600_Rev4_MV_simple_i	Phase C voltage		
PPVPhsAB1	ABBIED600_Rev4_MV_simple_i	Phase A to phase B voltage		
PPVPhsBC1	ABBIED600_Rev4_MV_simple_i	Phase B to phase C voltage		
PPVPhsCA1	ABBIED600_Rev4_MV_simple_i	Phase C to phase A voltage		
VRes1	ABBIED600_Rev4_MV_simple_i	Residual voltage		
VZro1	ABBIED600_Rev4_MV_simple_i	Zero sequence voltage		
VPsSeq1	ABBIED600_Rev4_MV_simple_i	Positive sequence voltage		
VNgSeq1	ABBIED600_Rev4_MV_simple_i	Negative sequence voltage		
PhVPhsA2	ABBIED600_Rev4_MV_simple_i	Phase A voltage (b)		
PhVPhsB2	ABBIED600_Rev4_MV_simple_i	Phase B voltage (b)		
PhVPhsC2	ABBIED600_Rev4_MV_simple_i	Phase C voltage (b)		
PPVPhsAB2	ABBIED600_Rev4_MV_simple_i	Phase A to phase B voltage (b)		
PPVPhsBC2	ABBIED600_Rev4_MV_simple_i	Phase B to phase C voltage (b)		
PPVPhsCA2	ABBIED600_Rev4_MV_simple_i	Phase C to phase A voltage (b)		
VRes2	ABBIED600_Rev4_MV_simple_i	Residual voltage (b)		
VZro2	ABBIED600_Rev4_MV_simple_i	Zero sequence voltage (b)		
VPsSeq2	ABBIED600_Rev4_MV_simple_i	Positive sequence voltage (b)		
VNgSeq2	ABBIED600_Rev4_MV_simple_i	Negative sequence voltage (b)		
MaxTmpRI	ABBIED600_Rev4_MV_simple_i	PTTR thermal level		
AMaxNgPs	ABBIED600_Rev4_MV_simple_i	PDNSPTOC1 rat. I2/I1		
DifANAngVN1	ABBIED600_Rev4_MV_simple_i	Angle residual voltage - residual current		

DifAAAngVBC1	ABBIED600_Rev4_MV_simple_i	Angle phase B to phase C voltage - phase A current		
DifABAngVCA1	ABBIED600_Rev4_MV_simple_i	Angle phase C to phase A voltage - phase B current		
DifACAngVAB1	ABBIED600_Rev4_MV_simple_i	Angle phase A to phase B voltage - phase C current		
DifANAngVN2	ABBIED600_Rev4_MV_simple_i	Angle residual voltage - residual current (b)		
DifAAAngVBC2	ABBIED600_Rev4_MV_simple_i	Angle phase B to phase C voltage - phase A current (b)		
DifABAngVCA2	ABBIED600_Rev4_MV_simple_i	Angle phase C to phase A voltage - phase B current (b)		
DifACAngVAB2	ABBIED600_Rev4_MV_simple_i	Angle phase A to phase B voltage - phase C current (b)		
HzRteChg	ABBIED600_Rev4_MV_simple_i	Frequency gradient		
CondNeut	ABBIED600_Rev4_MV_simple_i	Conductance Yo		
SusNeut	ABBIED600_Rev4_MV_simple_i	Susceptance Yo		
PPLoopRis	ABBIED600_Rev4_MV_simple_i	Fault loop resistance		
PPLoopReact	ABBIED600_Rev4_MV_simple_i	Fault loop reactance		
InCBClr	ABBIED600_Rev1_SPS	Breaker open status		
CBClrTm	ABBIED600_Rev4_MV_simple_i	Breaker clear time		

6.1.6 LN: I5CLPRT1 Name: LPRT (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD_e	Mode	E	IEC 61850-7-4:2007,status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh_e	Behaviour	E	IEC 61850-7-4:2007
NamPlt	ABBIED600_Rev1_LPL_InNs_1_e	Name plate	E	IEC 61850-7-4:2007
CommIntnOv	ABBIED600_Rev1_SPS	Internal Overflow		
CommPort	ABBIED600_Rev3_ENG_SP_CommPort_ED2	Port selection		
StrFrDI	ABBIED600_Rev1_ING_SP_1	Start delay		
EndFrDI	ABBIED600_Rev1_ING_SP_1	End delay		
FrRxCnt	ABBIED600_Rev1_INS	Received frames		
LnkErrCnt	ABBIED600_Rev1_INS	Link errors		
PhyErrCnt	ABBIED600_Rev1_INS	Physical errors		
TranErrCnt	ABBIED600_Rev1_INS	Transport errors		
FrTxCnt	ABBIED600_Rev1_INS	Transmitted frames		
ChLiv	ABBIED600_Rev1_SPS_e	Status	E	IEC 61850-7-4:2007

ITotFrz	ABBIED600_Rev2_SPC_control	IT Freeze		status-only,direct-with-normal-security
DevAddr	ABBIED600_Rev1_ING_SP_1	Device link address		
ASDUAddr	ABBIED600_Rev1_ING_SP_1	ASDU address		
TCPPort	ABBIED600_Rev1_ING_SP_1	TCP Port		
LnkMod	ABBIED600_Rev2_ENG_SP_I5CLinkMode	Link Mode		
COTLen	ABBIED600_Rev1_ING_SP_1	Cause of transmission length in bytes		
IOALen	ABBIED600_Rev1_ING_SP_1	Information Object Address length in bytes		
LnkAddrLen	ABBIED600_Rev1_ING_SP_1	Link Address length in bytes		
ASDUAddrLen	ABBIED600_Rev1_ING_SP_1	ASDU Address length in bytes		
SglCharRsp	ABBIED600_Rev1_SPG_SP	Single character response		
IndBadTmQ	ABBIED600_Rev1_SPG_SP	Indicate bad time		
TmFrmSel	ABBIED600_Rev2_ENG_SP_I5CTimeFormat	Timestamp mode		
EvtTmMod	ABBIED600_Rev2_ENG_SP_I5CTime-Mode	Event time		
EvtBufMod	ABBIED600_Rev2_ENG_SP_MBEvt-BufMod	Overflow Mode		
CntRpMod	ABBIED600_Rev2_ENG_SP_I5CCn-RepMode	Counter Reporting		
CntFrzMod	ABBIED600_Rev2_ENG_SP_I5CPrCn-Mode	Freeze Mode		
TxWinWid	ABBIED600_Rev1_ING_SP_1	IEC60870-5-104 transmit window (k)		
RxWinWid	ABBIED600_Rev1_ING_SP_1	IEC60870-5-104 receive window (w)		
Tm1Tmms	ABBIED600_Rev1_ING_SP_1	IEC60870-5-104 transmit timeout (t1) in milliseconds		
Tm2Tmms	ABBIED600_Rev1_ING_SP_1	IEC60870-5-104 receive timeout (t2) in milliseconds		
Tm3Tmms	ABBIED600_Rev1_ING_SP_1	IEC60870-5-104 link test interval (t3) in milliseconds		
OvIndAddrGl	ABBIED600_Rev1_ING_SP_1	Overflow indication address for interrogated data		
OvIndAddr	ABBIED600_Rev1_ING_SP_1	Overflow indication address for non-interrogated data		
SelTms	ABBIED600_Rev1_ING_SP_1	Select timeout		
CycPer	ABBIED600_Rev1_ING_SP_1	Cyclic period		

InvDIR	ABBIED600_Rev1_SPG_SP	Inverted DIR bit		
ConnRejSck	ABBIED600_Rev1_INS	Connection rejected due to no socket available		
ConnRejRg	ABBIED600_Rev1_INS	Connection rejected due to unregistered client		
ClIP	ABBIED600_Rev3_VSG_2_20	Client IP address		
CntRs	ABBIED600_Rev2_SPC_control	Diagnostic counters reset		status-only,direct-with-normal-security
CmdDI	ABBIED600_Rev1_ING_SP_1	Command delay		
MapSel	ABBIED600_Rev1_ING_SP_1	Mapping selection		

6.1.7 LN: SI5CLPRT1 Name: LPRT (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh_e	Behaviour	E	IEC 61850-7-4:2007
NamPlt	ABBIED600_Rev1_LPL_InNs_1	Name plate		
PrtlSecMod	ABBIED600_Rev2_ENG_SP_PrtlSecMode	Protocol Security Mode		
RpITmSet	ABBIED600_Rev1_ING_SP_1	Reply timeout		
KeyChgIntv	ABBIED600_Rev1_ING_SP_1	Expected Session key change interval		
KeyChgCnt	ABBIED600_Rev1_ING_SP_1	Expected session key change count		
MaxKeySt	ABBIED600_Rev1_ING_SP_1	Maximum session key status count		
Sec-StatCntGr	ABBIED600_Rev1_ENG_SP_SI5C_Sec-StatGrp	Secure statistics counter group		
SecStatIOA	ABBIED600_Rev1_ING_SP_1	Base information object address for secure statistics counters		
UnExpecMsg	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for unexpected messages		
AuthFailLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for authorization failures		
AuthnFailLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for authentication failures		
RpITmLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for reply timeouts		
RekeyFailLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for rekeys due to authentication failure		
TxMsgLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for total messages sent		
RxMsgLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for total messages received		

RxCritMsgLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for total critical messages received		
DscarMsgLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold discarded messages		
TxErMsgLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold error messages sent		
RxErMsgLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold error messages received		
AuthnSucLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for successful authentications		
SesKeyLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for session key changes		
SesKeyFail	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for failed session key changes		
UpdKeyLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for update key changes		
UpdKeyFail	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for failed update key changes		
UnExpecCnt	ABBIED600_Rev1_INS	Security statistics counter for unexpected messages		
AuthFailCnt	ABBIED600_Rev1_INS	Security statistics counter for authorization failures		
AuthnFailCnt	ABBIED600_Rev1_INS	Security statistics counter for authentication failures		
RplTmCnt	ABBIED600_Rev1_INS	Security statistics counter for reply timeouts		
RekeyFailCnt	ABBIED600_Rev1_INS	Security statistics counter for rekeys due to authentication failure		
FrTxCnt	ABBIED600_Rev1_INS	Security statistics counter for total messages sent		
FrRxCnt	ABBIED600_Rev1_INS	Security statistics counter for total messages received		
RxCritMsgCnt	ABBIED600_Rev1_INS	Security statistics counter for critical messages received		
DscarMsgCnt	ABBIED600_Rev1_INS	Security statistics counter for discarded messages		
TxErMsgCnt	ABBIED600_Rev1_INS	Security statistics counter error messages sent		
RxErMsgCnt	ABBIED600_Rev1_INS	Security statistics counter error messages received		
AuthnSucCnt	ABBIED600_Rev1_INS	Security statistics counter for successful authentications		
SesKeyCnt	ABBIED600_Rev1_INS	Security statistics counter for session key changes		
SesFailCnt	ABBIED600_Rev1_INS	Security statistics counter for failed session key changes		
UpdKeyCnt	ABBIED600_Rev1_INS	Security statistics counter update key changes		

UpdFailCnt	ABBIED600_Rev1_INS	Security statistics counter for failed update key changes		
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6.1.8 LN: I5CLPRT2 Name: LPRT (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD_e	Mode	E	IEC 61850-7-4:2007,status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh_e	Behaviour	E	IEC 61850-7-4:2007
NamPlt	ABBIED600_Rev1_LPL_InNs_1_e	Name plate	E	IEC 61850-7-4:2007
CommIntnOv	ABBIED600_Rev1_SPS	Internal Overflow		
CommPort	ABBIED600_Rev3_ENG_SP_CommPort_ED2	Port selection		
StrFrDI	ABBIED600_Rev1_ING_SP_1	Start delay		
EndFrDI	ABBIED600_Rev1_ING_SP_1	End delay		
FrRxCnt	ABBIED600_Rev1_INS	Received frames		
LnkErrCnt	ABBIED600_Rev1_INS	Link errors		
PhyErrCnt	ABBIED600_Rev1_INS	Physical errors		
TranErrCnt	ABBIED600_Rev1_INS	Transport errors		
FrTxCnt	ABBIED600_Rev1_INS	Transmitted frames		
ChLiv	ABBIED600_Rev1_SPS_e	Status	E	IEC 61850-7-4:2007
ITotFrz	ABBIED600_Rev2_SPC_control	IT Freeze		status-only,direct-with-normal-security
DevAddr	ABBIED600_Rev1_ING_SP_1	Device link address		
ASDUAddr	ABBIED600_Rev1_ING_SP_1	ASDU address		
TCPPort	ABBIED600_Rev1_ING_SP_1	TCP Port		
LnkMod	ABBIED600_Rev2_ENG_SP_I5CLinkMode	Link Mode		
COTLen	ABBIED600_Rev1_ING_SP_1	Cause of transmission length in bytes		
IOALen	ABBIED600_Rev1_ING_SP_1	Information Object Address length in bytes		
LnkAddrLen	ABBIED600_Rev1_ING_SP_1	Link Address length in bytes		
ASDUAddrLen	ABBIED600_Rev1_ING_SP_1	ASDU Address length in bytes		
SglCharRsp	ABBIED600_Rev1_SPG_SP	Single character response		
IndBadTmQ	ABBIED600_Rev1_SPG_SP	Indicate bad time		
TmFrmSel	ABBIED600_Rev2_ENG_SP_I5CTimeFormat	Timestamp mode		
EvtTmMod	ABBIED600_Rev2_ENG_SP_I5CTime-Mode	Event time		
EvtBufMod	ABBIED600_Rev2_ENG_SP_MBEvt-BufMod	Overflow Mode		

CntRpMod	ABBIED600_Rev2_ENG_SP_I5CCn-RepMode	Counter Reporting		
CntFrzMod	ABBIED600_Rev2_ENG_SP_I5CPrCn-Mode	Freeze Mode		
TxWinWid	ABBIED600_Rev1_ING_SP_1	IEC60870-5-104 transmit window (k)		
RxWinWid	ABBIED600_Rev1_ING_SP_1	IEC60870-5-104 receive window (w)		
Tm1Tmms	ABBIED600_Rev1_ING_SP_1	IEC60870-5-104 transmit timeout (t1) in milliseconds		
Tm2Tmms	ABBIED600_Rev1_ING_SP_1	IEC60870-5-104 receive timeout (t2) in milliseconds		
Tm3Tmms	ABBIED600_Rev1_ING_SP_1	IEC60870-5-104 link test interval (t3) in milliseconds		
OvIndAddrGI	ABBIED600_Rev1_ING_SP_1	Overflow indication address for interrogated data		
OvIndAddr	ABBIED600_Rev1_ING_SP_1	Overflow indication address for non-interrogated data		
SelTms	ABBIED600_Rev1_ING_SP_1	Select timeout		
CycPer	ABBIED600_Rev1_ING_SP_1	Cyclic period		
InvDIR	ABBIED600_Rev1_SPG_SP	Inverted DIR bit		
ConnRejSck	ABBIED600_Rev1_INS	Connection rejected due to no socket available		
ConnRejRg	ABBIED600_Rev1_INS	Connection rejected due to unregistered client		
ClIP	ABBIED600_Rev3_VSG_2_20	Client IP address		
CntRs	ABBIED600_Rev2_SPC_control	Diagnostic counters reset		status-only,direct-with-normal-security
CmdDI	ABBIED600_Rev1_ING_SP_1	Command delay		
MapSel	ABBIED600_Rev1_ING_SP_1	Mapping selection		

6.1.9 LN: SI5CLPRT2 Name: LPRT (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh_e	Behaviour	E	IEC 61850-7-4:2007
NamPlt	ABBIED600_Rev1_LPL_InNs_1	Name plate		
PrtlSecMod	ABBIED600_Rev2_ENG_SP_PrtlSecMode	Protocol Security Mode		
RplTmSet	ABBIED600_Rev1_ING_SP_1	Reply timeout		

KeyChgIntv	ABBIED600_Rev1_ING_SP_1	Expected Session key change interval		
KeyChgCnt	ABBIED600_Rev1_ING_SP_1	Expected session key change count		
MaxKeySt	ABBIED600_Rev1_ING_SP_1	Maximum session key status count		
Sec-StatCntGr	ABBIED600_Rev1_ENG_SP_SI5C_Sec-StatGrp	Secure statistics counter group		
SecStatIOA	ABBIED600_Rev1_ING_SP_1	Base information object address for secure statistics counters		
UnExpecMsg	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for unexpected messages		
AuthFailLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for authorization failures		
AuthnFailLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for authentication failures		
RplTmLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for reply timeouts		
RekeyFailLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for rekeys due to authentication failure		
TxMsgLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for total messages sent		
RxMsgLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for total messages received		
RxCritMs-gLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for total critical messages received		
DscarMs-gLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold discarded messages		
TxErMsgLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold error messages sent		
RxErMsgLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold error messages received		
AuthnSucLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for successful authentications		
SesKeyLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for session key changes		
SesKeyFail	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for failed session key changes		
UpdKeyLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for update key changes		
UpdKeyFail	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for failed update key changes		
UnExpecCnt	ABBIED600_Rev1_INS	Security statistics counter for unexpected messages		
AuthFailCnt	ABBIED600_Rev1_INS	Security statistics counter for authorization failures		
AuthnFailCnt	ABBIED600_Rev1_INS	Security statistics counter for authentication failures		

RplTmCnt	ABBIED600_Rev1_INS	Security statistics counter for reply timeouts		
RekeyFailCnt	ABBIED600_Rev1_INS	Security statistics counter for rekeys due to authentication failure		
FrTxCnt	ABBIED600_Rev1_INS	Security statistics counter for total messages sent		
FrRxCnt	ABBIED600_Rev1_INS	Security statistics counter for total messages received		
RxCritMsgCnt	ABBIED600_Rev1_INS	Security statistics counter for critical messages received		
DscarMsgCnt	ABBIED600_Rev1_INS	Security statistics counter for discarded messages		
TxErMsgCnt	ABBIED600_Rev1_INS	Security statistics counter error messages sent		
RxErMsgCnt	ABBIED600_Rev1_INS	Security statistics counter error messages received		
AuthnSucCnt	ABBIED600_Rev1_INS	Security statistics counter for successful authentications		
SesKeyCnt	ABBIED600_Rev1_INS	Security statistics counter for session key changes		
SesFailCnt	ABBIED600_Rev1_INS	Security statistics counter for failed session key changes		
UpdKeyCnt	ABBIED600_Rev1_INS	Security statistics counter update key changes		
UpdFailCnt	ABBIED600_Rev1_INS	Security statistics counter for failed update key changes		

6.1.10 LN: I5CLPRT3 Name: LPRT (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD_e	Mode	E	IEC 61850-7-4:2007, status-only, direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh_e	Behaviour	E	IEC 61850-7-4:2007
NamPlt	ABBIED600_Rev1_LPL_InNs_1_e	Name plate	E	IEC 61850-7-4:2007
CommIntnOv	ABBIED600_Rev1_SPS	Internal Overflow		
CommPort	ABBIED600_Rev3_ENG_SP_CommPort_ED2	Port selection		
StrFrDI	ABBIED600_Rev1_ING_SP_1	Start delay		
EndFrDI	ABBIED600_Rev1_ING_SP_1	End delay		
FrRxCnt	ABBIED600_Rev1_INS	Received frames		
LnkErrCnt	ABBIED600_Rev1_INS	Link errors		
PhyErrCnt	ABBIED600_Rev1_INS	Physical errors		
TranErrCnt	ABBIED600_Rev1_INS	Transport errors		
FrTxCnt	ABBIED600_Rev1_INS	Transmitted frames		
ChLiv	ABBIED600_Rev1_SPS_e	Status	E	IEC 61850-7-4:2007

ITotFrz	ABBIED600_Rev2_SPC_control	IT Freeze		status-only,direct-with-normal-security
DevAddr	ABBIED600_Rev1_ING_SP_1	Device link address		
ASDUAddr	ABBIED600_Rev1_ING_SP_1	ASDU address		
TCPPort	ABBIED600_Rev1_ING_SP_1	TCP Port		
LnkMod	ABBIED600_Rev2_ENG_SP_I5CLinkMode	Link Mode		
COTLen	ABBIED600_Rev1_ING_SP_1	Cause of transmission length in bytes		
IOALen	ABBIED600_Rev1_ING_SP_1	Information Object Address length in bytes		
LnkAddrLen	ABBIED600_Rev1_ING_SP_1	Link Address length in bytes		
ASDUAddrLen	ABBIED600_Rev1_ING_SP_1	ASDU Address length in bytes		
SglCharRsp	ABBIED600_Rev1_SPG_SP	Single character response		
IndBadTmQ	ABBIED600_Rev1_SPG_SP	Indicate bad time		
TmFrmSel	ABBIED600_Rev2_ENG_SP_I5CTimeFormat	Timestamp mode		
EvtTmMod	ABBIED600_Rev2_ENG_SP_I5CTime-Mode	Event time		
EvtBufMod	ABBIED600_Rev2_ENG_SP_MBEvt-BufMod	Overflow Mode		
CntRpMod	ABBIED600_Rev2_ENG_SP_I5CCn-RepMode	Counter Reporting		
CntFrzMod	ABBIED600_Rev2_ENG_SP_I5CPrCn-Mode	Freeze Mode		
TxWinWid	ABBIED600_Rev1_ING_SP_1	IEC60870-5-104 transmit window (k)		
RxWinWid	ABBIED600_Rev1_ING_SP_1	IEC60870-5-104 receive window (w)		
Tm1Tmms	ABBIED600_Rev1_ING_SP_1	IEC60870-5-104 transmit timeout (t1) in milliseconds		
Tm2Tmms	ABBIED600_Rev1_ING_SP_1	IEC60870-5-104 receive timeout (t2) in milliseconds		
Tm3Tmms	ABBIED600_Rev1_ING_SP_1	IEC60870-5-104 link test interval (t3) in milliseconds		
OvIndAddrGl	ABBIED600_Rev1_ING_SP_1	Overflow indication address for interrogated data		
OvIndAddr	ABBIED600_Rev1_ING_SP_1	Overflow indication address for non-interrogated data		
SelTms	ABBIED600_Rev1_ING_SP_1	Select timeout		
CycPer	ABBIED600_Rev1_ING_SP_1	Cyclic period		

InvDIR	ABBIED600_Rev1_SPG_SP	Inverted DIR bit		
ConnRejSck	ABBIED600_Rev1_INS	Connection rejected due to no socket available		
ConnRejRg	ABBIED600_Rev1_INS	Connection rejected due to unregistered client		
ClIP	ABBIED600_Rev3_VSG_2_20	Client IP address		
CntRs	ABBIED600_Rev2_SPC_control	Diagnostic counters reset		status-only,direct-with-normal-security
CmdDI	ABBIED600_Rev1_ING_SP_1	Command delay		
MapSel	ABBIED600_Rev1_ING_SP_1	Mapping selection		

6.1.11 LN: SI5CLPRT3 Name: LPRT (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh_e	Behaviour	E	IEC 61850-7-4:2007
NamPlt	ABBIED600_Rev1_LPL_InNs_1	Name plate		
PrtlSecMod	ABBIED600_Rev2_ENG_SP_PrtlSecMode	Protocol Security Mode		
RpITmSet	ABBIED600_Rev1_ING_SP_1	Reply timeout		
KeyChgIntv	ABBIED600_Rev1_ING_SP_1	Expected Session key change interval		
KeyChgCnt	ABBIED600_Rev1_ING_SP_1	Expected session key change count		
MaxKeySt	ABBIED600_Rev1_ING_SP_1	Maximum session key status count		
Sec-StatCntGr	ABBIED600_Rev1_ENG_SP_SI5C_Sec-StatGrp	Secure statistics counter group		
SecStatIOA	ABBIED600_Rev1_ING_SP_1	Base information object address for secure statistics counters		
UnExpecMsg	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for unexpected messages		
AuthFailLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for authorization failures		
AuthnFailLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for authentication failures		
RpITmLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for reply timeouts		
RekeyFailLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for rekeys due to authentication failure		
TxMsgLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for total messages sent		
RxMsgLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for total messages received		

RxCritMsgLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for total critical messages received		
DscarMsgLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold discarded messages		
TxErMsgLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold error messages sent		
RxErMsgLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold error messages received		
AuthnSucLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for succesful authentications		
SesKeyLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for session key changes		
SesKeyFail	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for failed session key changes		
UpdKeyLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for update key changes		
UpdKeyFail	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for failed update key changes		
UnExpecCnt	ABBIED600_Rev1_INS	Security statistics counter for unexpected messages		
AuthFailCnt	ABBIED600_Rev1_INS	Security statistics counter for authorization failures		
AuthnFailCnt	ABBIED600_Rev1_INS	Security statistics counter for authentication failures		
RplTmCnt	ABBIED600_Rev1_INS	Security statistics counter for reply timeouts		
RekeyFailCnt	ABBIED600_Rev1_INS	Security statistics counter for rekeys due to authentication failure		
FrTxCnt	ABBIED600_Rev1_INS	Security statistics counter for total messages sent		
FrRxCnt	ABBIED600_Rev1_INS	Security statistics counter for total messages received		
RxCritMsgCnt	ABBIED600_Rev1_INS	Security statistics counter for critical messages received		
DscarMsgCnt	ABBIED600_Rev1_INS	Security statistics counter for discarded messages		
TxErMsgCnt	ABBIED600_Rev1_INS	Security statistics counter error messages sent		
RxErMsgCnt	ABBIED600_Rev1_INS	Security statistics counter error messages received		
AuthnSucCnt	ABBIED600_Rev1_INS	Security statistics counter for successful authentications		
SesKeyCnt	ABBIED600_Rev1_INS	Security statistics counter for session key changes		
SesFailCnt	ABBIED600_Rev1_INS	Security statistics counter for failed session key changes		
UpdKeyCnt	ABBIED600_Rev1_INS	Security statistics counter update key changes		

UpdFailCnt	ABBIED600_Rev1_INS	Security statistics counter for failed update key changes		
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6.1.12 LN: I5CLPRT4 Name: LPRT (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD_e	Mode	E	IEC 61850-7-4:2007,status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh_e	Behaviour	E	IEC 61850-7-4:2007
NamPlt	ABBIED600_Rev1_LPL_InNs_1_e	Name plate	E	IEC 61850-7-4:2007
CommIntnOv	ABBIED600_Rev1_SPS	Internal Overflow		
CommPort	ABBIED600_Rev3_ENG_SP_CommPort_ED2	Port selection		
StrFrDI	ABBIED600_Rev1_ING_SP_1	Start delay		
EndFrDI	ABBIED600_Rev1_ING_SP_1	End delay		
FrRxCnt	ABBIED600_Rev1_INS	Received frames		
LnkErrCnt	ABBIED600_Rev1_INS	Link errors		
PhyErrCnt	ABBIED600_Rev1_INS	Physical errors		
TranErrCnt	ABBIED600_Rev1_INS	Transport errors		
FrTxCnt	ABBIED600_Rev1_INS	Transmitted frames		
ChLiv	ABBIED600_Rev1_SPS_e	Status	E	IEC 61850-7-4:2007
ITotFrz	ABBIED600_Rev2_SPC_control	IT Freeze		status-only,direct-with-normal-security
DevAddr	ABBIED600_Rev1_ING_SP_1	Device link address		
ASDUAddr	ABBIED600_Rev1_ING_SP_1	ASDU address		
TCPPort	ABBIED600_Rev1_ING_SP_1	TCP Port		
LnkMod	ABBIED600_Rev2_ENG_SP_I5CLinkMode	Link Mode		
COTLen	ABBIED600_Rev1_ING_SP_1	Cause of transmission length in bytes		
IOALen	ABBIED600_Rev1_ING_SP_1	Information Object Address length in bytes		
LnkAddrLen	ABBIED600_Rev1_ING_SP_1	Link Address length in bytes		
ASDUAddrLen	ABBIED600_Rev1_ING_SP_1	ASDU Address length in bytes		
SglCharRsp	ABBIED600_Rev1_SPG_SP	Single character response		
IndBadTmQ	ABBIED600_Rev1_SPG_SP	Indicate bad time		
TmFrmSel	ABBIED600_Rev2_ENG_SP_I5CTimeFormat	Timestamp mode		
EvtTmMod	ABBIED600_Rev2_ENG_SP_I5CTimeMode	Event time		
EvtBufMod	ABBIED600_Rev2_ENG_SP_MBEvtBufMod	Overflow Mode		

CntRpMod	ABBIED600_Rev2_ENG_SP_I5CCn-RepMode	Counter Reporting		
CntFrzMod	ABBIED600_Rev2_ENG_SP_I5CPrCn-Mode	Freeze Mode		
TxWinWid	ABBIED600_Rev1_ING_SP_1	IEC60870-5-104 transmit window (k)		
RxWinWid	ABBIED600_Rev1_ING_SP_1	IEC60870-5-104 receive window (w)		
Tm1Tmms	ABBIED600_Rev1_ING_SP_1	IEC60870-5-104 transmit timeout (t1) in milliseconds		
Tm2Tmms	ABBIED600_Rev1_ING_SP_1	IEC60870-5-104 receive timeout (t2) in milliseconds		
Tm3Tmms	ABBIED600_Rev1_ING_SP_1	IEC60870-5-104 link test interval (t3) in milliseconds		
OvIndAddrGI	ABBIED600_Rev1_ING_SP_1	Overflow indication address for interrogated data		
OvIndAddr	ABBIED600_Rev1_ING_SP_1	Overflow indication address for non-interrogated data		
SelTms	ABBIED600_Rev1_ING_SP_1	Select timeout		
CycPer	ABBIED600_Rev1_ING_SP_1	Cyclic period		
InvDIR	ABBIED600_Rev1_SPG_SP	Inverted DIR bit		
ConnRejSck	ABBIED600_Rev1_INS	Connection rejected due to no socket available		
ConnRejRg	ABBIED600_Rev1_INS	Connection rejected due to unregistered client		
ClIP	ABBIED600_Rev3_VSG_2_20	Client IP address		
CntRs	ABBIED600_Rev2_SPC_control	Diagnostic counters reset		status-only,direct-with-normal-security
CmdDI	ABBIED600_Rev1_ING_SP_1	Command delay		
MapSel	ABBIED600_Rev1_ING_SP_1	Mapping selection		

6.1.13 LN: SI5CLPRT4 Name: LPRT (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh_e	Behaviour	E	IEC 61850-7-4:2007
NamPlt	ABBIED600_Rev1_LPL_InNs_1	Name plate		
PrtlSecMod	ABBIED600_Rev2_ENG_SP_PrtlSecMode	Protocol Security Mode		
RplTmSet	ABBIED600_Rev1_ING_SP_1	Reply timeout		

KeyChgIntv	ABBIED600_Rev1_ING_SP_1	Expected Session key change interval		
KeyChgCnt	ABBIED600_Rev1_ING_SP_1	Expected session key change count		
MaxKeySt	ABBIED600_Rev1_ING_SP_1	Maximum session key status count		
Sec-StatCntGr	ABBIED600_Rev1_ENG_SP_SI5C_Sec-StatGrp	Secure statistics counter group		
SecStatIOA	ABBIED600_Rev1_ING_SP_1	Base information object address for secure statistics counters		
UnExpecMsg	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for unexpected messages		
AuthFailLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for authorization failures		
AuthnFailLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for authentication failures		
RplTmLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for reply timeouts		
RekeyFailLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for rekeys due to authentication failure		
TxMsgLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for total messages sent		
RxMsgLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for total messages received		
RxCritMsgLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for total critical messages received		
DscarMsgLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold discarded messages		
TxErMsgLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold error messages sent		
RxErMsgLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold error messages received		
AuthnSucLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for successful authentications		
SesKeyLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for session key changes		
SesKeyFail	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for failed session key changes		
UpdKeyLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for update key changes		
UpdKeyFail	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for failed update key changes		
UnExpecCnt	ABBIED600_Rev1_INS	Security statistics counter for unexpected messages		
AuthFailCnt	ABBIED600_Rev1_INS	Security statistics counter for authorization failures		
AuthnFailCnt	ABBIED600_Rev1_INS	Security statistics counter for authentication failures		

RplTmCnt	ABBIED600_Rev1_INS	Security statistics counter for reply timeouts		
RekeyFailCnt	ABBIED600_Rev1_INS	Security statistics counter for rekeys due to authentication failure		
FrTxCnt	ABBIED600_Rev1_INS	Security statistics counter for total messages sent		
FrRxCnt	ABBIED600_Rev1_INS	Security statistics counter for total messages received		
RxCritMsgCnt	ABBIED600_Rev1_INS	Security statistics counter for critical messages received		
DscarMsgCnt	ABBIED600_Rev1_INS	Security statistics counter for discarded messages		
TxErMsgCnt	ABBIED600_Rev1_INS	Security statistics counter error messages sent		
RxErMsgCnt	ABBIED600_Rev1_INS	Security statistics counter error messages received		
AuthnSucCnt	ABBIED600_Rev1_INS	Security statistics counter for successful authentications		
SesKeyCnt	ABBIED600_Rev1_INS	Security statistics counter for session key changes		
SesFailCnt	ABBIED600_Rev1_INS	Security statistics counter for failed session key changes		
UpdKeyCnt	ABBIED600_Rev1_INS	Security statistics counter update key changes		
UpdFailCnt	ABBIED600_Rev1_INS	Security statistics counter for failed update key changes		

6.1.14 LN: I5CLPRT5 Name: LPRT (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD_e	Mode	E	IEC 61850-7-4:2007, status-only, direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh_e	Behaviour	E	IEC 61850-7-4:2007
NamPlt	ABBIED600_Rev1_LPL_InNs_1_e	Name plate	E	IEC 61850-7-4:2007
CommIntnOv	ABBIED600_Rev1_SPS	Internal Overflow		
CommPort	ABBIED600_Rev3_ENG_SP_CommPort_ED2	Port selection		
StrFrDI	ABBIED600_Rev1_ING_SP_1	Start delay		
EndFrDI	ABBIED600_Rev1_ING_SP_1	End delay		
FrRxCnt	ABBIED600_Rev1_INS	Received frames		
LnkErrCnt	ABBIED600_Rev1_INS	Link errors		
PhyErrCnt	ABBIED600_Rev1_INS	Physical errors		
TranErrCnt	ABBIED600_Rev1_INS	Transport errors		
FrTxCnt	ABBIED600_Rev1_INS	Transmitted frames		
ChLiv	ABBIED600_Rev1_SPS_e	Status	E	IEC 61850-7-4:2007

ITotFrz	ABBIED600_Rev2_SPC_control	IT Freeze		status-only,direct-with-normal-security
DevAddr	ABBIED600_Rev1_ING_SP_1	Device link address		
ASDUAddr	ABBIED600_Rev1_ING_SP_1	ASDU address		
TCPPort	ABBIED600_Rev1_ING_SP_1	TCP Port		
LnkMod	ABBIED600_Rev2_ENG_SP_I5CLinkMode	Link Mode		
COTLen	ABBIED600_Rev1_ING_SP_1	Cause of transmission length in bytes		
IOALen	ABBIED600_Rev1_ING_SP_1	Information Object Address length in bytes		
LnkAddrLen	ABBIED600_Rev1_ING_SP_1	Link Address length in bytes		
ASDUAddr-Len	ABBIED600_Rev1_ING_SP_1	ASDU Address length in bytes		
SglCharRsp	ABBIED600_Rev1_SPG_SP	Single character response		
IndBadTmQ	ABBIED600_Rev1_SPG_SP	Indicate bad time		
TmFrmSel	ABBIED600_Rev2_ENG_SP_I5CTimeFormat	Timestamp mode		
EvtTmMod	ABBIED600_Rev2_ENG_SP_I5CTime-Mode	Event time		
EvtBufMod	ABBIED600_Rev2_ENG_SP_MBEvt-BufMod	Overflow Mode		
CntRpMod	ABBIED600_Rev2_ENG_SP_I5CCn-RepMode	Counter Reporting		
CntFrzMod	ABBIED600_Rev2_ENG_SP_I5CPrCn-Mode	Freeze Mode		
TxWinWid	ABBIED600_Rev1_ING_SP_1	IEC60870-5-104 transmit window (k)		
RxWinWid	ABBIED600_Rev1_ING_SP_1	IEC60870-5-104 receive window (w)		
Tm1Tmms	ABBIED600_Rev1_ING_SP_1	IEC60870-5-104 transmit timeout (t1) in milliseconds		
Tm2Tmms	ABBIED600_Rev1_ING_SP_1	IEC60870-5-104 receive timeout (t2) in milliseconds		
Tm3Tmms	ABBIED600_Rev1_ING_SP_1	IEC60870-5-104 link test interval (t3) in milliseconds		
OvIndAddrGl	ABBIED600_Rev1_ING_SP_1	Overflow indication address for interrogated data		
OvIndAddr	ABBIED600_Rev1_ING_SP_1	Overflow indication address for non-interrogated data		
SelTms	ABBIED600_Rev1_ING_SP_1	Select timeout		
CycPer	ABBIED600_Rev1_ING_SP_1	Cyclic period		

InvDIR	ABBIED600_Rev1_SPG_SP	Inverted DIR bit		
ConnRejSck	ABBIED600_Rev1_INS	Connection rejected due to no socket available		
ConnRejRg	ABBIED600_Rev1_INS	Connection rejected due to unregistered client		
ClIP	ABBIED600_Rev3_VSG_2_20	Client IP address		
CntRs	ABBIED600_Rev2_SPC_control	Diagnostic counters reset		status-only,direct-with-normal-security
CmdDI	ABBIED600_Rev1_ING_SP_1	Command delay		
MapSel	ABBIED600_Rev1_ING_SP_1	Mapping selection		

6.1.15 LN: SI5CLPRT5 Name: LPRT (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh_e	Behaviour	E	IEC 61850-7-4:2007
NamPlt	ABBIED600_Rev1_LPL_InNs_1	Name plate		
PrtlSecMod	ABBIED600_Rev2_ENG_SP_PrtlSecMode	Protocol Security Mode		
RpITmSet	ABBIED600_Rev1_ING_SP_1	Reply timeout		
KeyChgIntv	ABBIED600_Rev1_ING_SP_1	Expected Session key change interval		
KeyChgCnt	ABBIED600_Rev1_ING_SP_1	Expected session key change count		
MaxKeySt	ABBIED600_Rev1_ING_SP_1	Maximum session key status count		
Sec-StatCntGr	ABBIED600_Rev1_ENG_SP_SI5C_Sec-StatGrp	Secure statistics counter group		
SecStatIOA	ABBIED600_Rev1_ING_SP_1	Base information object address for secure statistics counters		
UnExpecMsg	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for unexpected messages		
AuthFailLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for authorization failures		
AuthnFailLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for authentication failures		
RpITmLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for reply timeouts		
RekeyFailLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for rekeys due to authentication failure		
TxMsgLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for total messages sent		
RxMsgLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for total messages received		

RxCritMsgLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for total critical messages received		
DscarMsgLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold discarded messages		
TxErMsgLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold error messages sent		
RxErMsgLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold error messages received		
AuthnSucLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for succesful authentications		
SesKeyLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for session key changes		
SesKeyFail	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for failed session key changes		
UpdKeyLev	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for update key changes		
UpdKeyFail	ABBIED600_Rev1_ING_SP_1	Security statistics threshold for failed update key changes		
UnExpecCnt	ABBIED600_Rev1_INS	Security statistics counter for unexpected messages		
AuthFailCnt	ABBIED600_Rev1_INS	Security statistics counter for authorization failures		
AuthnFailCnt	ABBIED600_Rev1_INS	Security statistics counter for authentication failures		
RplTmCnt	ABBIED600_Rev1_INS	Security statistics counter for reply timeouts		
RekeyFailCnt	ABBIED600_Rev1_INS	Security statistics counter for rekeys due to authentication failure		
FrTxCnt	ABBIED600_Rev1_INS	Security statistics counter for total messages sent		
FrRxCnt	ABBIED600_Rev1_INS	Security statistics counter for total messages received		
RxCritMsgCnt	ABBIED600_Rev1_INS	Security statistics counter for critical messages received		
DscarMsgCnt	ABBIED600_Rev1_INS	Security statistics counter for discarded messages		
TxErMsgCnt	ABBIED600_Rev1_INS	Security statistics counter error messages sent		
RxErMsgCnt	ABBIED600_Rev1_INS	Security statistics counter error messages received		
AuthnSucCnt	ABBIED600_Rev1_INS	Security statistics counter for successful authentications		
SesKeyCnt	ABBIED600_Rev1_INS	Security statistics counter for session key changes		
SesFailCnt	ABBIED600_Rev1_INS	Security statistics counter for failed session key changes		
UpdKeyCnt	ABBIED600_Rev1_INS	Security statistics counter update key changes		

UpdFailCnt	ABBIED600_Rev1_INS	Security statistics counter for failed update key changes		
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6.1.16 LN: CBPSOF1 Name: PSOF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD_e	Mode	E	IEC 61850-7-4:2007,status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh_e	Behaviour	E	IEC 61850-7-4:2007
NamPlt	ABBIED600_Rev1_LPL_InNs_1_e	Name plate	E	IEC 61850-7-4:2007
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	IEC 61850-7-4:2007
Op	ABBIED600_Rev1_ACT_simple_e	Operate	E	IEC 61850-7-4:2007
InStr	ABBIED600_Rev1_SPS	Start from function to be accelerated by SOTF		
InDIstr	ABBIED600_Rev1_SPS	Start from function to be accelerated with delay by SOTF		
InCBCIs	ABBIED600_Rev1_SPS	External enabling of SOTF by CB close command		
RsDITmms	ABBIED600_Rev1_ING_SG_e	Reset Delay Time	E	IEC 61850-7-4:2007
OpDITmms	ABBIED600_Rev1_ING_SG_e	Operate Delay Time	E	IEC 61850-7-4:2007
TstOutCmd	ABBIED600_Rev20_ENC_TstOut	Test control for outputs		status-only,direct-with-normal-security

6.1.17 LN: MDSOPT1 Name: SOPT (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD_e	Mode	E	IEC 61850-7-4:2007,status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh_e	Behaviour	E	IEC 61850-7-4:2007
NamPlt	ABBIED600_Rev1_LPL_InNs_1_e	Name plate	E	IEC 61850-7-4:2007
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	IEC 61850-7-4:2007
OpTmh	ABBIED600_Rev1_INS_e	OPR_TIME	E	IEC 61850-7-4:2007
OpTmRs	ABBIED600_Rev2_SPC_control	MDSOPT1 operation t		status-only,direct-with-normal-security
OpTmWrn	ABBIED600_Rev1_SPS_e	Operation time warning	E	IEC 61850-7-4:2007
OpTmAlm	ABBIED600_Rev1_SPS_e	Operation time alarm	E	IEC 61850-7-4:2007
TmOp	ABBIED600_Rev1_SPS	Indicates that operation time is running		
OpWrnTmh	ABBIED600_Rev1_ING_SP_1_e	Warning value for operation time supervision	E	IEC 61850-7-4:2007

OpAlmTmh	ABBIED600_Rev1_ING_SP_1_e	Alarm value for operation time supervision	E	IEC 61850-7-4:2007
IniOpTmh	ABBIED600_Rev1_ING_SP_1	Initial value for operation time supervision		
OpActTmh	ABBIED600_Rev1_ING_SP_1	Time of day when alarm and warning will occur		
OpActMod	ABBIED600_Rev2_ENG_SP_TmrAlmMod	Operating time mode for warning and alarm		
TstOutCmd	ABBIED600_Rev20_ENC_TstOut	Test control for outputs		status-only,direct-with-normal-security

6.1.18 LN: SEQSPVC1 Name: SPVC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev1_LPL_InNs_1	Name plate		
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	IEC 61850-7-4:2007
Str	ABBIED600_Rev1_ACD_simple_e	General start of function	E	IEC 61850-7-4:2007
Str3Ph	ABBIED600_Rev1_ACD_simple	Three-phase start of function		
InPosCls	ABBIED600_Rev1_SPS	Active when circuit breaker is closed		
InDsconOpn	ABBIED600_Rev1_SPS	Active when line disconnector is open		
InMCBOpn	ABBIED600_Rev1_SPS	Active when external MCB opens protected Volt. circuit		
BlkValA	ABBIED600_Rev3_ASG_SP_i_e	Minimum operate level of phase current for delta calculation	E	IEC 61850-7-4:2007
NgSeqLevA	ABBIED600_Rev3_ASG_SP_i	Operate level of neg seq undercurrent element		
ChgRteA	ABBIED600_Rev3_ASG_SP_i	Operate level of change in phase current		
ChgRteEna	ABBIED600_Rev1_SPG_SP	Enabling operation of change based function		
ChgRteV	ABBIED600_Rev3_ASG_SP_i	Operate level of change in phase voltage		
EnaSealIn	ABBIED600_Rev1_SPG_SP	Enabling seal in functionality		

BlkValV	ABBIED600_Rev3_ASG_SP_i_e	Minimum operate level of phase voltage for delta calculation	E	IEC 61850-7-4:2007
SealInV	ABBIED600_Rev3_ASG_SP_i	Operate level of seal-in phase voltage		
NgSeqLevV	ABBIED600_Rev3_ASG_SP_i	Operate level of neg seq overvoltage element		
TestSpvn	AB-BIED600_Rev7_ENC_TestSpvn_Sub7	SEQSPVC1		status-only,direct-with-normal-security
DealInValA	ABBIED600_Rev3_ASG_SP_i	Operate level for open phase current detection		

6.1.19 LN: EFPADM1 Name: PADM (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD_e	Mode	E	IEC 61850-7-4:2007,status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh_e	Behaviour	E	IEC 61850-7-4:2007
NamPlt	ABBIED600_Rev1_LPL_InNs_1_e	Name plate	E	IEC 61850-7-4:2007
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	IEC 61850-7-4:2007
Str	ABBIED600_Rev1_ACD_simple_e	Start	E	IEC 61850-7-4:2007
Op	ABBIED600_Rev1_ACT_simple_e	Operate	E	IEC 61850-7-4:2007
VStr	ABBIED600_Rev4_ASG_SG_i_e	Voltage Start Value	E	IEC 61850-7-4:2007
OpDITmms	ABBIED600_Rev1_ING_SG_e	Operate Delay Time	E	IEC 61850-7-4:2007
StrDur	ABBIED600_Rev4_MV_2	Ratio of start time / operate time		
TstOutCmd	ABBIED600_Rev20_ENC_TstOut	Test control for outputs		status-only,direct-with-normal-security
DirMod	ABBIED600_Rev3_ENG_SG_DirMod_e	Directional Mode	E	IEC 61850-7-4:2007
RsDITmms	ABBIED600_Rev1_ING_SP_1_e	Reset Delay Time	E	IEC 61850-7-4:2007
OpModAdm	ABBIED600_Rev2_ENG_SG_OpModAdm	Operation mode		
BlkValA	ABBIED600_Rev3_ASG_SP_i_e	Minimum operating current	E	IEC 61850-7-4:2007
BlkValV	ABBIED600_Rev3_ASG_SP_i_e	Minimum operating voltage	E	IEC 61850-7-4:2007
CondTiltAng	ABBIED600_Rev4_ASG_SG_i	Conductance tilt angle		
CondFwd	ABBIED600_Rev4_ASG_SG_i	Conductance forward		

CondRv	ABBIED600_Rev4_ASG_SG_i	Conductance re-verse		
SusTiltAng	ABBIED600_Rev4_ASG_SG_i	Susceptance tilt angle		
SusFwd	ABBIED600_Rev4_ASG_SG_i	Susceptance forward		
SusRv	ABBIED600_Rev4_ASG_SG_i	Susceptance re-verse		
CirclRd	ABBIED600_Rev4_ASG_SG_i	Circle radius		
CirclCond	ABBIED600_Rev4_ASG_SG_i	Circle conductance		
CirclSus	ABBIED600_Rev4_ASG_SG_i	Circle susceptance		
RevPol	ABBIED600_Rev1_SPG_SP	Rotate polarizing quantity		
Cond	ABBIED600_Rev4_MV_simple_i	Measured neutral conductance		
Sus	ABBIED600_Rev4_MV_simple_i	Measured neutral susceptance		
TrgSt	ABBIED600_Rev1_SPS	Signal indicating function triggering		
AResSigSel	AB- BIED600_Rev2_ENG_SP_AResSigSel	Selection for used Io signal		
VResSigSel	ABBIED600_Rev2_ENG_SP_VRes- SigSel	Selection for used Uo signal		
AdmClcMod	ABBIED600_Rev2_ENG_SP_Ad- mClcMod	Admittance calculation mode		

6.1.20 LN: FLO1RFRC1 Name: RFRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB- BIED600_Rev1_ENC_Mod_On_e	Mode	E	IEC 61850-7-4:2007,status-only
Beh	ABBIED600_Rev5_ENS_beh_e	Behaviour	E	IEC 61850-7-4:2007
NamPlt	ABBIED600_Rev1_LPL_InNs_1_e	Name plate	E	IEC 61850-7-4:2007
FltLoop	ABBIED600_Rev5_ENS_Flt- Loop_e	Fault loop	E	IEC 61850-7-4:2007
FltDiskm	ABBIED600_Rev4_MV_simple_i_e	Fault distance	E	IEC 61850-7-4:2007
FltPtR	ABBIED600_Rev4_MV_simple_i_e	Fault point resistance	E	ABBIED600:2014
FltDisQ	ABBIED600_Rev1_INS_e	Fault distance quality	E	ABBIED600:2014
FltR	ABBIED600_Rev4_MV_simple_i_e	Fault loop resistance	E	ABBIED600:2014
FltX	ABBIED600_Rev4_MV_simple_i_e	Fault loop reactance	E	ABBIED600:2014
PhReact	ABBIED600_Rev4_MV_simple_i_e	Fault phase reactance	E	ABBIED600:2014
RatFltALod	ABBIED600_Rev4_MV_simple_i_e	Fault to load current ratio	E	ABBIED600:2014
EqDisLod	ABBIED600_Rev4_MV_simple_i_e	Estimated equivalent load distance	E	ABBIED600:2014

PhGndCapac	ABBIED600_Rev4_MV_simple_i_e	Estimated PE capacitive reactance of the line	E	ABBIED600:2014
APreFltPhA	ABBIED600_Rev4_CMV_S_1_e	A Pre Flt Phs A	E	ABBIED600:2014
APreFltPhB	ABBIED600_Rev4_CMV_S_1_e	A Pre Flt Phs B	E	ABBIED600:2014
APreFltPhC	ABBIED600_Rev4_CMV_S_1_e	A Pre Flt Phs C	E	ABBIED600:2014
VPreFltPhA	ABBIED600_Rev4_CMV_S_1_e	V Pre Flt Phs A	E	ABBIED600:2014
VPreFltPhB	ABBIED600_Rev4_CMV_S_1_e	V Pre Flt Phs B	E	ABBIED600:2014
VPreFltPhC	ABBIED600_Rev4_CMV_S_1_e	V Pre Flt Phs C	E	ABBIED600:2014
AFItPhA	ABBIED600_Rev4_CMV_S_1_e	A Flt Phs A	E	ABBIED600:2014
AFItPhB	ABBIED600_Rev4_CMV_S_1_e	A Flt Phs B	E	ABBIED600:2014
AFItPhC	ABBIED600_Rev4_CMV_S_1_e	A Flt Phs C	E	ABBIED600:2014
VFltPhA	ABBIED600_Rev4_CMV_S_1_e	V Flt Phs A	E	ABBIED600:2014
VFltPhB	ABBIED600_Rev4_CMV_S_1_e	V Flt Phs B	E	ABBIED600:2014
VFltPhC	ABBIED600_Rev4_CMV_S_1_e	V Flt Phs C	E	ABBIED600:2014

6.1.21 LN: QVV1RQRC1 Name: RQRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_ENC_Mod_On_e	Mode	E	IEC 61850-7-4:2007,status-only
Beh	ABBIED600_Rev5_ENS_beh_e	Behaviour	E	IEC 61850-7-4:2007
NamPlt	ABBIED600_Rev1_LPL_InNs_1_e	Name plate	E	IEC 61850-7-4:2007
VVaTyp	AB-BIED600_Rev3_ENS_VVaTyp_e	Voltage variation type	E	ABBIED600:2014
VVaPhsA	ABBIED600_Rev4_MV_simple_i_e	VVa Magn phase A of the newest completed event	E	ABBIED600:2014
VVaPhsB	ABBIED600_Rev4_MV_simple_i_e	VVa Magn phase B of the newest completed event	E	ABBIED600:2014
VVaPhsC	ABBIED600_Rev4_MV_simple_i_e	VVa Magn phase C of the newest completed event	E	ABBIED600:2014
VVaTmPhsA	ABBIED600_Rev4_MV_simple_i_e	VVa Phase A Dur of the newest completed event	E	ABBIED600:2014
VVaTmPhsB	ABBIED600_Rev4_MV_simple_i_e	VVa Phase B Dur of the newest completed event	E	ABBIED600:2014
VVaTmPhsC	ABBIED600_Rev4_MV_simple_i_e	VVa Phase C Dur of the newest completed event	E	ABBIED600:2014
APreVaPhsA	ABBIED600_Rev4_MV_simple_i_e	I_A preceding Va start of the newest completed event	E	ABBIED600:2014
APreVaPhsB	ABBIED600_Rev4_MV_simple_i_e	I_B preceding Va start of the newest completed event	E	ABBIED600:2014
APreVaPhsC	ABBIED600_Rev4_MV_simple_i_e	I_C preceding Va start of the newest completed event	E	ABBIED600:2014

6.1.22 LN: QVV2RQRC1 Name: RQRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_ENC_Mod_On_e	Mode	E	IEC 61850-7-4:2007,status-only
Beh	ABBIED600_Rev5_ENS_beh_e	Behaviour	E	IEC 61850-7-4:2007
NamPlt	ABBIED600_Rev1_LPL_InNs_1_e	Name plate	E	IEC 61850-7-4:2007
VVaTyp	AB-BIED600_Rev3_ENS_VVaTyp_e	Voltage variation type	E	ABBIED600:2014
VVaPhsA	ABBIED600_Rev4_MV_simple_i_e	VVa Magn phase A of the second newest completed event	E	ABBIED600:2014
VVaPhsB	ABBIED600_Rev4_MV_simple_i_e	VVa Magn phase B of the second newest completed event	E	ABBIED600:2014
VVaPhsC	ABBIED600_Rev4_MV_simple_i_e	VVa Magn phase C of the second newest completed event	E	ABBIED600:2014
VVaTmPhsA	ABBIED600_Rev4_MV_simple_i_e	VVa Phase A Dur of the second newest completed event	E	ABBIED600:2014
VVaTmPhsB	ABBIED600_Rev4_MV_simple_i_e	VVa Phase B Dur of the second newest completed event	E	ABBIED600:2014
VVaTmPhsC	ABBIED600_Rev4_MV_simple_i_e	VVa Phase C Dur of the second newest completed event	E	ABBIED600:2014
APreVaPhsA	ABBIED600_Rev4_MV_simple_i_e	I_A preceding Va start of the 2nd newest completed event	E	ABBIED600:2014
APreVaPhsB	ABBIED600_Rev4_MV_simple_i_e	I_B preceding Va start of the 2nd newest completed event	E	ABBIED600:2014
APreVaPhsC	ABBIED600_Rev4_MV_simple_i_e	I_C preceding Va start of the 2nd newest completed event	E	ABBIED600:2014

6.1.23 LN: QVV3RQRC1 Name: RQRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_ENC_Mod_On_e	Mode	E	IEC 61850-7-4:2007,status-only
Beh	ABBIED600_Rev5_ENS_beh_e	Behaviour	E	IEC 61850-7-4:2007
NamPlt	ABBIED600_Rev1_LPL_InNs_1_e	Name plate	E	IEC 61850-7-4:2007
VVaTyp	AB-BIED600_Rev3_ENS_VVaTyp_e	Voltage variation type	E	ABBIED600:2014
VVaPhsA	ABBIED600_Rev4_MV_simple_i_e	VVa Magn phase A of the third newest completed event	E	ABBIED600:2014
VVaPhsB	ABBIED600_Rev4_MV_simple_i_e	VVa Magn phase B of the third newest completed event	E	ABBIED600:2014

VVaPhsC	ABBIED600_Rev4_MV_simple_i_e	VVa Magn phase C of the third newest completed event	E	ABBIED600:2014
VVaTmPhsA	ABBIED600_Rev4_MV_simple_i_e	VVa Phase A Dur of the third newest completed event	E	ABBIED600:2014
VVaTmPhsB	ABBIED600_Rev4_MV_simple_i_e	VVa Phase B Dur of the third newest completed event	E	ABBIED600:2014
VVaTmPhsC	ABBIED600_Rev4_MV_simple_i_e	VVa Phase C Dur of the third newest completed event	E	ABBIED600:2014
APreVaPhsA	ABBIED600_Rev4_MV_simple_i_e	I_A preceding Va start of the 3rd newest completed event	E	ABBIED600:2014
APreVaPhsB	ABBIED600_Rev4_MV_simple_i_e	I_B preceding Va start of the 3rd newest completed event	E	ABBIED600:2014
APreVaPhsC	ABBIED600_Rev4_MV_simple_i_e	I_C preceding Va start of the 3rd newest completed event	E	ABBIED600:2014

6.1.24 LN: QVU1RQRC1 Name: RQRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_ENC_Mod_On_e	Mode	E	IEC 61850-7-4:2007,status-only
Beh	ABBIED600_Rev5_ENS_beh_e	Behaviour	E	IEC 61850-7-4:2007
NamPlt	ABBIED600_Rev1_LPL_InNs_1_e	Name Plate	E	IEC 61850-7-4:2007
MaxVVa	ABBIED600_Rev4_MV_simple_i_e	Maximum unbalance deviation value	E	IEC 61850-7-4:2007
VVaTm	ABBIED600_Rev4_MV_simple_i_e	Duration of newest high mean unbalance voltage alarm	E	IEC 61850-7-4:2007

6.1.25 LN: QVU2RQRC1 Name: RQRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_ENC_Mod_On_e	Mode	E	IEC 61850-7-4:2007,status-only
Beh	ABBIED600_Rev5_ENS_beh_e	Behaviour	E	IEC 61850-7-4:2007
NamPlt	ABBIED600_Rev1_LPL_InNs_1_e	Name Plate	E	IEC 61850-7-4:2007
MaxVVa	ABBIED600_Rev4_MV_simple_i_e	Maximum unbalance deviation value	E	IEC 61850-7-4:2007
VVaTm	ABBIED600_Rev4_MV_simple_i_e	Duration of second newest high mean unbalance Volt alarm	E	IEC 61850-7-4:2007

6.1.26 LN: QVU3RQRC1 Name: RQRC (ED2)

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

Beh	ABBIED600_Rev5_ENS_beh_e	Behaviour	E	IEC 61850-7-4:2007
NamPlt	ABBIED600_Rev1_LPL_InNs_1_e	Name Plate	E	IEC 61850-7-4:2007
MaxVVa	ABBIED600_Rev4_MV_simple_i_e	Maximum unbalance deviation value	E	IEC 61850-7-4:2007
VVaTm	ABBIED600_Rev4_MV_simple_i_e	Duration of third newest high mean unbalance Volt alarm	E	IEC 61850-7-4:2007

6.1.27 LN: OLATCC1 Name: ATCC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_InNs_Ed2	Name plate		
Loc	ABBIED600_Rev1_SPS	Local operation		
OpCntRs	ABBIED600_Rev1_INC_simple_int	Resetable operation counter		status-only
TapChg	ABBIED600_Rev4_BSC_control	Change Tap Position (stop, lower, higher)		status-only,direct-with-normal-security
ParOp	ABBIED600_Rev2_SPC_control	Parallel/Independent operation		status-only,direct-with-normal-security
LTCBlk	ABBIED600_Rev1_SPC_simple	Block (Inhibit) control output of LTC		status-only
VRed1	ABBIED600_Rev1_SPC_simple	Voltage reduction step 1		status-only
CtlV	ABBIED600_Rev4_MV_simple_i	Control voltage		
LodA	ABBIED600_Rev4_MV_simple_i	Load current (total transformer secondary current)		
CircA	ABBIED600_Rev4_MV_simple_i	Circulating current		
Auto	ABBIED600_Rev2_SPC_control	Automatic/Manual operation		status-only,direct-with-normal-security
BndCtr	ABBIED600_Rev4_ASG_SG_i	Band center voltage		
BndWid	ABBIED600_Rev3_ASG_SP_i	Band width voltage		
CtlDI1Tmms	ABBIED600_Rev1_ING_SG	Control intentional time delay 1		
CtlDI2Tmms	ABBIED600_Rev1_ING_SG_e	Control intentional time delay 2	E	ABBIED600:2014
LDCR	ABBIED600_Rev4_ASG_SG_i	Line drop voltage due to line resistance component		
LDCX	ABBIED600_Rev4_ASG_SG_i	Line drop voltage due to line reactance component		
RnbkRV	ABBIED600_Rev3_ASG_SP_i	Runback raise voltage		

LimLodA	ABBIED600_Rev3_ASG_SP_i	Limit load current (LTC Block Load current)		
TmDIChr	ABBIED600_Rev1_SPG_SP	Time delay linear or inverse characteristics		
VRedVal	ABBIED600_Rev4_ASG_SG_i	Reduction of band centre (percent) when voltage step is active		
TapBlkR	ABBIED600_Rev1_ING_SP_1	Tap position of Load tap changer where automatic Raise commands are blocked		
TapBlkL	ABBIED600_Rev1_ING_SP_1	Tap position of Load tap changer where automatic Lower commands are blocked		
BlkVLo	ABBIED600_Rev3_ASG_SP_i	Control voltage below which auto Raise commands are blocked		
EndPosR	ABBIED600_Rev1_SPS	Block raise		
EndPosL	ABBIED600_Rev1_SPS	Block lower		
ParTrfMod	ABBIED600_Rev2_ENG_SG_Par-TrfMod_e	Auto parallel mode	E	ABBIED600:2014
TapOpErr	ABBIED600_Rev1_SPS	Alarm		
TapOpR	ABBIED600_Rev1_SPS	Raise command for own transformer		
TapOpL	ABBIED600_Rev1_SPS	Lower command for own transformer		
LTCBlkAHi	ABBIED600_Rev1_SPS	Block load current		
LTCBlkVLo	ABBIED600_Rev1_SPS	Block under voltage		
Blk	ABBIED600_Rev1_SPS	External block status		
ErrPar	ABBIED600_Rev1_SPS	Parallel failure		
VolSpt	ABBIED600_Rev5_APC_control_e	Voltage setpoint	E	IEC 61850-7-4:2007,status-only,direct-with-normal-security
LodPhAng	ABBIED600_Rev4_ASG_SG_i_e	Load phase angle	E	ABBIED600:2014
StabFact	ABBIED600_Rev4_ASG_SG_i_e	Stability	E	ABBIED600:2014
VCtlOpMod	ABBIED600_Rev4_ENG_SP_OpModSetATCC_e	Operation mode	E	ABBIED600:2014
LTCPlsTmms	ABBIED600_Rev1_ING_SP_e	Output pulse	E	ABBIED600:2014
ManBlkTyp	ABBIED600_Rev2_ENG_SP_ManBlkType_e	Manual blocking type	E	ABBIED600:2014

LimCircA	ABBIED600_Rev3_ASG_SP_i_e	Circulating current limit	E	ABBIED600:2014
LimLDC	ABBIED600_Rev3_ASG_SP_i_e	Line Drop Compensation limit	E	ABBIED600:2014
LDCEna	ABBIED600_Rev1_SPG_SP_e	Line Drop Compensation enable	E	ABBIED600:2014
RPFAllw	ABBIED600_Rev1_SPG_SP_e	Reverse power flow allwd	E	ABBIED600:2014
OpTmhMax	ABBIED600_Rev1_ING_SP_1_e	Max operations in 1h	E	ABBIED600:2014
CmdErrTms	ABBIED600_Rev1_ING_SP_1_e	Command error delay	E	ABBIED600:2014
FilwDITms	ABBIED600_Rev1_ING_SP_1_e	Follower delay	E	ABBIED600:2014
AlmEna	ABBIED600_Rev1_SPG_SP_e	Alarms enabled	E	ABBIED600:2014
CntRs	ABBIED600_Rev2_SPC_control_e	Counter reset	E	ABBIED600:2014, status-only, direct-with-normal-security
TapOpFilw1	ABBIED600_Rev1_INS_e	Change follower 1 tap position command from master (stop, lower, higher)	E	ABBIED600:2014
TapOpFilw2	ABBIED600_Rev1_INS_e	Change follower 2 tap position command from master (stop, lower, higher)	E	ABBIED600:2014
TapOpFilw3	ABBIED600_Rev1_INS_e	Change follower 3 tap position command from master (stop, lower, higher)	E	ABBIED600:2014
LodAVec	ABBIED600_Rev4_CMV_S_1_e	Transmitted current phasor	E	ABBIED600:2014
VMeas	ABBIED600_Rev4_MV_simple_i_e	Voltage, average filtered	E	ABBIED600:2014
AngVAPhA	ABBIED600_Rev4_MV_simple_i_e	Angle U_A-I_A	E	ABBIED600:2014
CtlDIOn	ABBIED600_Rev2_ENS_TimerOn_e	Timer status	E	ABBIED600:2014
CtlOpModSt	ABBIED600_Rev2_ENS_OpModATCC_e	Acting oper mode	E	ABBIED600:2014
CtlVDif	ABBIED600_Rev4_MV_simple_i_e	Voltage difference	E	ABBIED600:2014
ClcLDC	ABBIED600_Rev4_MV_simple_i_e	Calculated Line Drop Compensation	E	ABBIED600:2014
BlkSt	ABBIED600_Rev1_INS_e	Block status	E	ABBIED600:2014
LTCRnbk	ABBIED600_Rev1_SPS_e	Block runback raise voltage	E	ABBIED600:2014
CircAHiBlk	ABBIED600_Rev1_SPS_e	Block circulating current	E	ABBIED600:2014
AlmReas	ABBIED600_Rev2_ENS_AlmReas_e	Alarm reason	E	ABBIED600:2014
FilwFlt	ABBIED600_Rev2_ENS_FilwFlt_e	Failed followers	E	ABBIED600:2014
NumParUnit	ABBIED600_Rev2_ENS_ParUnits_e	Parallel units in MCC	E	ABBIED600:2014
Trf1TapPos	ABBIED600_Rev1_INS_e	Trafo 1 tap position	E	ABBIED600:2014

Trf2TapPos	ABBIED600_Rev1_INS_e	Trafo 2 tap position	E	ABBIED600:2014
Trf3TapPos	ABBIED600_Rev1_INS_e	Trafo 3 tap position	E	ABBIED600:2014
TapChgFilw	ABBIED600_Rev1_INS_e	Change follower tap position (stop, lower, higher)	E	ABBIED600:2014
InConSt	ABBIED600_Rev1_SPS_e	Connection status	E	ABBIED600:2014
InLTCOp	ABBIED600_Rev1_SPS_e	Tap Changer Operating	E	ABBIED600:2014
Trf1A	ABBIED600_Rev4_CMV_S_1_e	Received current from transformer 1	E	ABBIED600:2014
Trf2A	ABBIED600_Rev4_CMV_S_1_e	Received current from transformer 2	E	ABBIED600:2014
Trf3A	ABBIED600_Rev4_CMV_S_1_e	Received current from transformer 3	E	ABBIED600:2014
ParTrfNum	ABBIED600_Rev1_ING_SP_1_e	Parallel trafos	E	ABBIED600:2014
TestCtl	ABBIED600_Rev5_ENC_TestCtl_e	Test control for outputs	E	ABBIED600:2014, status-only, direct-with-normal-security
OpTmhNum	ABBIED600_Rev1_INS_e	Controls per last 1h	E	ABBIED600:2014
TapChgR	ABBIED600_Rev1_SPS_e	RAISE_LOCAL	E	ABBIED600:2014
TapChgL	ABBIED600_Rev1_SPS_e	LOWER_LOCAL	E	ABBIED600:2014
CtlDISt	ABBIED600_Rev1_SPS_e	Timer on	E	ABBIED600:2014
InAuto	ABBIED600_Rev1_SPS_e	Input auto operation	E	ABBIED600:2014
InParOp	ABBIED600_Rev1_SPS_e	Input parallel operation	E	ABBIED600:2014

6.1.28 LN: GFC1RFRC1 Name: RFRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On_e	Mode	E	IEC 61850-7-4:2007, status-only
Beh	ABBIED600_Rev5_ENS_beh_e	Behaviour	E	IEC 61850-7-4:2007
NamPlt	ABBIED600_Rev1_LPL_InNs_1_e	Name plate	E	IEC 61850-7-4:2007
RelPhLoop	ABBIED600_Rev5_ENS_FltLoop_e	Release signals for PE-loops, GFC	E	ABBIED600:2014
RelPPLoop	ABBIED600_Rev5_ENS_FltLoop_e	Release signals for PP/3P loops, GFC	E	ABBIED600:2014
XcnDet	ABBIED600_Rev1_SPS_simple_e	Indication of a cross-country-fault (high imp. earthed), GFC	E	ABBIED600:2014
EFDet	ABBIED600_Rev1_SPS_simple_e	Indication of a single phase earth-fault, GFC	E	ABBIED600:2014
EFDir	ABBIED600_Rev1_ACD_threephase_e	Earth-fault direction (low impedance earthed), GFC	E	ABBIED600:2014
ZnOpSt	ABBIED600_Rev1_INS_e	Time-delayed operate signal of all zones	E	ABBIED600:2014
DirZn1	ABBIED600_Rev1_ACD_threephase_e	Direction of fault or load zone 1	E	ABBIED600:2014

DirRisZn1	ABBIED600_Rev4_MV_simple_i_e	Resistance used in dir. eval., zone 1	E	ABBIED600:2014
DirXZn1	ABBIED600_Rev4_MV_simple_i_e	Reactance used in dir. eval., zone 1	E	ABBIED600:2014
PhLoopRis1	ABBIED600_Rev4_MV_simple_i_e	First PE-loop resistance, zone 1	E	ABBIED600:2014
PhLoopX1	ABBIED600_Rev4_MV_simple_i_e	First PE-loop reactance, zone 1	E	ABBIED600:2014
PhLoopRis2	ABBIED600_Rev4_MV_simple_i_e	Second PE-loop resistance, zone 1	E	ABBIED600:2014
PhLoopX2	ABBIED600_Rev4_MV_simple_i_e	Second PE-loop reactance, zone 1	E	ABBIED600:2014
PPLoopRis	ABBIED600_Rev4_MV_simple_i_e	PP/3P-loop resistance, zone 1	E	ABBIED600:2014
PPLoopX	ABBIED600_Rev4_MV_simple_i_e	PP/3P-loop reactance, zone 1	E	ABBIED600:2014
PhX	ABBIED600_Rev4_MV_simple_i_e	Phase to earth reactance in phase domain, zone 1	E	ABBIED600:2014
DirRisZn2	ABBIED600_Rev4_MV_simple_i_e	Resistance used in dir. eval., zone 2	E	ABBIED600:2014
DirRisZn3	ABBIED600_Rev4_MV_simple_i_e	Resistance used in dir. eval., zone 3	E	ABBIED600:2014
DirRisZn4	ABBIED600_Rev4_MV_simple_i_e	Resistance used in dir. eval., zone 4	E	ABBIED600:2014
DirRisZn5	ABBIED600_Rev4_MV_simple_i_e	Resistance used in dir. eval., zone 5	E	ABBIED600:2014
DirXZn2	ABBIED600_Rev4_MV_simple_i_e	Reactance used in dir. eval., zone 2	E	ABBIED600:2014
DirXZn3	ABBIED600_Rev4_MV_simple_i_e	Reactance used in dir. eval., zone 3	E	ABBIED600:2014
DirXZn4	ABBIED600_Rev4_MV_simple_i_e	Reactance used in dir. eval., zone 4	E	ABBIED600:2014
DirXZn5	ABBIED600_Rev4_MV_simple_i_e	Reactance used in dir. eval., zone 5	E	ABBIED600:2014
PhRisFstZn2	ABBIED600_Rev4_MV_simple_i_e	First PE-loop resistance, zone 2	E	ABBIED600:2014
PhRisFstZn3	ABBIED600_Rev4_MV_simple_i_e	First PE-loop resistance, zone 3	E	ABBIED600:2014
PhRisFstZn4	ABBIED600_Rev4_MV_simple_i_e	First PE-loop resistance, zone 4	E	ABBIED600:2014
PhRisFstZn5	ABBIED600_Rev4_MV_simple_i_e	First PE-loop resistance, zone 5	E	ABBIED600:2014
PhXFstZn2	ABBIED600_Rev4_MV_simple_i_e	First PE-loop reactance, zone 2	E	ABBIED600:2014
PhXFstZn3	ABBIED600_Rev4_MV_simple_i_e	First PE-loop reactance, zone 3	E	ABBIED600:2014
PhXFstZn4	ABBIED600_Rev4_MV_simple_i_e	First PE-loop reactance, zone 4	E	ABBIED600:2014

PhXFstZn5	ABBIED600_Rev4_MV_simple_i_e	First PE-loop reactance, zone 5	E	ABBIED600:2014
PhRisS-cdZn2	ABBIED600_Rev4_MV_simple_i_e	Second PE-loop resistance, zone 2	E	ABBIED600:2014
PhRisS-cdZn3	ABBIED600_Rev4_MV_simple_i_e	Second PE-loop resistance, zone 3	E	ABBIED600:2014
PhRisS-cdZn4	ABBIED600_Rev4_MV_simple_i_e	Second PE-loop resistance, zone 4	E	ABBIED600:2014
PhRisS-cdZn5	ABBIED600_Rev4_MV_simple_i_e	Second PE-loop resistance, zone 5	E	ABBIED600:2014
PhXScdZn2	ABBIED600_Rev4_MV_simple_i_e	Second PE-loop reactance, zone 2	E	ABBIED600:2014
PhXScdZn3	ABBIED600_Rev4_MV_simple_i_e	Second PE-loop reactance, zone 3	E	ABBIED600:2014
PhXScdZn4	ABBIED600_Rev4_MV_simple_i_e	Second PE-loop reactance, zone 4	E	ABBIED600:2014
PhXScdZn5	ABBIED600_Rev4_MV_simple_i_e	Second PE-loop reactance, zone 5	E	ABBIED600:2014
PPRisZn2	ABBIED600_Rev4_MV_simple_i_e	PP/3P-loop resistance, zone 2	E	ABBIED600:2014
PPRisZn3	ABBIED600_Rev4_MV_simple_i_e	PP/3P-loop resistance, zone 3	E	ABBIED600:2014
PPRisZn4	ABBIED600_Rev4_MV_simple_i_e	PP/3P-loop resistance, zone 4	E	ABBIED600:2014
PPRisZn5	ABBIED600_Rev4_MV_simple_i_e	PP/3P-loop resistance, zone 5	E	ABBIED600:2014
PPXZn2	ABBIED600_Rev4_MV_simple_i_e	PP/3P-loop reactance, zone 2	E	ABBIED600:2014
PPXZn3	ABBIED600_Rev4_MV_simple_i_e	PP/3P-loop reactance, zone 3	E	ABBIED600:2014
PPXZn4	ABBIED600_Rev4_MV_simple_i_e	PP/3P-loop reactance, zone 4	E	ABBIED600:2014
PPXZn5	ABBIED600_Rev4_MV_simple_i_e	PP/3P-loop reactance, zone 5	E	ABBIED600:2014
PhXZn2	ABBIED600_Rev4_MV_simple_i_e	Phase to earth reactance in phase domain, zone 2	E	ABBIED600:2014
PhXZn3	ABBIED600_Rev4_MV_simple_i_e	Phase to earth reactance in phase domain, zone 3	E	ABBIED600:2014
PhXZn4	ABBIED600_Rev4_MV_simple_i_e	Phase to earth reactance in phase domain, zone 4	E	ABBIED600:2014
PhXZn5	ABBIED600_Rev4_MV_simple_i_e	Phase to earth reactance in phase domain, zone 5	E	ABBIED600:2014
DirZn2	AB-BIED600_Rev1_ACD_threephase_e	Direction of fault or load zone 2	E	IEC 61850-7-4:2007
DirZn3	AB-BIED600_Rev1_ACD_threephase_e	Direction of fault or load zone 3	E	IEC 61850-7-4:2007
DirZn4	AB-BIED600_Rev1_ACD_threephase_e	Direction of fault or load zone 4	E	IEC 61850-7-4:2007

DirZn5	AB-BIED600_Rev1_ACD_threephase_e	Direction of fault or load zone 5	E	IEC 61850-7-4:2007
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6.1.29 LN: GFC2RFRC1 Name: RFRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On_e	Mode	E	IEC 61850-7-4:2007,status-only
Beh	ABBIED600_Rev5_ENS_beh_e	Behaviour	E	IEC 61850-7-4:2007
NamPlt	ABBIED600_Rev1_LPL_InNs_1_e	Name plate	E	IEC 61850-7-4:2007
RelPhLoop	ABBIED600_Rev5_ENS_FltLoop_e	Release signals for PE-loops, GFC	E	ABBIED600:2014
RelPPLoop	ABBIED600_Rev5_ENS_FltLoop_e	Release signals for PP/3P loops. GFC	E	ABBIED600:2014
XcnDet	ABBIED600_Rev1_SPS_simple_e	Indication of a cross-country-fault (high imp. earthed), GFC	E	ABBIED600:2014
EFDet	ABBIED600_Rev1_SPS_simple_e	Indication of a single phase earth-fault, GFC	E	ABBIED600:2014
EFDir	AB-BIED600_Rev1_ACD_threephase_e	Earth-fault direction (low impedance earthed), GFC	E	ABBIED600:2014
ZnOpSt	ABBIED600_Rev1_INS_e	Time-delayed operate signal of all zones	E	ABBIED600:2014
DirZn1	AB-BIED600_Rev1_ACD_threephase_e	Direction of fault or load zone 1	E	ABBIED600:2014
DirRisZn1	ABBIED600_Rev4_MV_simple_i_e	Resistance used in dir. eval., zone 1	E	ABBIED600:2014
DirXZn1	ABBIED600_Rev4_MV_simple_i_e	Reactance used in dir. eval., zone 1	E	ABBIED600:2014
PhLoopRis1	ABBIED600_Rev4_MV_simple_i_e	First PE-loop resistance, zone 1	E	ABBIED600:2014
PhLoopX1	ABBIED600_Rev4_MV_simple_i_e	First PE-loop reactance, zone 1	E	ABBIED600:2014
PhLoopRis2	ABBIED600_Rev4_MV_simple_i_e	Second PE-loop resistance, zone 1	E	ABBIED600:2014
PhLoopX2	ABBIED600_Rev4_MV_simple_i_e	Second PE-loop reactance, zone 1	E	ABBIED600:2014
PPLoopRis	ABBIED600_Rev4_MV_simple_i_e	PP/3P-loop resistance, zone 1	E	ABBIED600:2014
PPLoopX	ABBIED600_Rev4_MV_simple_i_e	PP/3P-loop reactance, zone 1	E	ABBIED600:2014
PhX	ABBIED600_Rev4_MV_simple_i_e	Phase to earth reactance in phase domain, zone 1	E	ABBIED600:2014
DirRisZn2	ABBIED600_Rev4_MV_simple_i_e	Resistance used in dir. eval., zone 2	E	ABBIED600:2014
DirRisZn3	ABBIED600_Rev4_MV_simple_i_e	Resistance used in dir. eval., zone 3	E	ABBIED600:2014
DirRisZn4	ABBIED600_Rev4_MV_simple_i_e	Resistance used in dir. eval., zone 4	E	ABBIED600:2014

DirRisZn5	ABBIED600_Rev4_MV_simple_i_e	Resistance used in dir. eval., zone 5	E	ABBIED600:2014
DirXZn2	ABBIED600_Rev4_MV_simple_i_e	Reactance used in dir. eval., zone 2	E	ABBIED600:2014
DirXZn3	ABBIED600_Rev4_MV_simple_i_e	Reactance used in dir. eval., zone 3	E	ABBIED600:2014
DirXZn4	ABBIED600_Rev4_MV_simple_i_e	Reactance used in dir. eval., zone 4	E	ABBIED600:2014
DirXZn5	ABBIED600_Rev4_MV_simple_i_e	Reactance used in dir. eval., zone 5	E	ABBIED600:2014
PhRisFstZn2	ABBIED600_Rev4_MV_simple_i_e	First PE-loop resistance, zone 2	E	ABBIED600:2014
PhRisFstZn3	ABBIED600_Rev4_MV_simple_i_e	First PE-loop resistance, zone 3	E	ABBIED600:2014
PhRisFstZn4	ABBIED600_Rev4_MV_simple_i_e	First PE-loop resistance, zone 4	E	ABBIED600:2014
PhRisFstZn5	ABBIED600_Rev4_MV_simple_i_e	First PE-loop resistance, zone 5	E	ABBIED600:2014
PhXFstZn2	ABBIED600_Rev4_MV_simple_i_e	First PE-loop reactance, zone 2	E	ABBIED600:2014
PhXFstZn3	ABBIED600_Rev4_MV_simple_i_e	First PE-loop reactance, zone 3	E	ABBIED600:2014
PhXFstZn4	ABBIED600_Rev4_MV_simple_i_e	First PE-loop reactance, zone 4	E	ABBIED600:2014
PhXFstZn5	ABBIED600_Rev4_MV_simple_i_e	First PE-loop reactance, zone 5	E	ABBIED600:2014
PhRisS-cdZn2	ABBIED600_Rev4_MV_simple_i_e	Second PE-loop resistance, zone 2	E	ABBIED600:2014
PhRisS-cdZn3	ABBIED600_Rev4_MV_simple_i_e	Second PE-loop resistance, zone 3	E	ABBIED600:2014
PhRisS-cdZn4	ABBIED600_Rev4_MV_simple_i_e	Second PE-loop resistance, zone 4	E	ABBIED600:2014
PhRisS-cdZn5	ABBIED600_Rev4_MV_simple_i_e	Second PE-loop resistance, zone 5	E	ABBIED600:2014
PhXScdZn2	ABBIED600_Rev4_MV_simple_i_e	Second PE-loop reactance, zone 2	E	ABBIED600:2014
PhXScdZn3	ABBIED600_Rev4_MV_simple_i_e	Second PE-loop reactance, zone 3	E	ABBIED600:2014
PhXScdZn4	ABBIED600_Rev4_MV_simple_i_e	Second PE-loop reactance, zone 4	E	ABBIED600:2014
PhXScdZn5	ABBIED600_Rev4_MV_simple_i_e	Second PE-loop reactance, zone 5	E	ABBIED600:2014
PPRisZn2	ABBIED600_Rev4_MV_simple_i_e	PP/3P-loop resistance, zone 2	E	ABBIED600:2014
PPRisZn3	ABBIED600_Rev4_MV_simple_i_e	PP/3P-loop resistance, zone 3	E	ABBIED600:2014
PPRisZn4	ABBIED600_Rev4_MV_simple_i_e	PP/3P-loop resistance, zone 4	E	ABBIED600:2014

PPRisZn5	ABBIED600_Rev4_MV_simple_i_e	PP/3P-loop resistance, zone 5	E	ABBIED600:2014
PPXZn2	ABBIED600_Rev4_MV_simple_i_e	PP/3P-loop reactance, zone 2	E	ABBIED600:2014
PPXZn3	ABBIED600_Rev4_MV_simple_i_e	PP/3P-loop reactance, zone 3	E	ABBIED600:2014
PPXZn4	ABBIED600_Rev4_MV_simple_i_e	PP/3P-loop reactance, zone 4	E	ABBIED600:2014
PPXZn5	ABBIED600_Rev4_MV_simple_i_e	PP/3P-loop reactance, zone 5	E	ABBIED600:2014
PhXZn2	ABBIED600_Rev4_MV_simple_i_e	Phase to earth reactance in phase domain, zone 2	E	ABBIED600:2014
PhXZn3	ABBIED600_Rev4_MV_simple_i_e	Phase to earth reactance in phase domain, zone 3	E	ABBIED600:2014
PhXZn4	ABBIED600_Rev4_MV_simple_i_e	Phase to earth reactance in phase domain, zone 4	E	ABBIED600:2014
PhXZn5	ABBIED600_Rev4_MV_simple_i_e	Phase to earth reactance in phase domain, zone 5	E	ABBIED600:2014
DirZn2	AB-BIED600_Rev1_ACD_threephase_e	Direction of fault or load zone 2	E	IEC 61850-7-4:2007
DirZn3	AB-BIED600_Rev1_ACD_threephase_e	Direction of fault or load zone 3	E	IEC 61850-7-4:2007
DirZn4	AB-BIED600_Rev1_ACD_threephase_e	Direction of fault or load zone 4	E	IEC 61850-7-4:2007
DirZn5	AB-BIED600_Rev1_ACD_threephase_e	Direction of fault or load zone 5	E	IEC 61850-7-4:2007

6.1.30 LN: GFC3RFRC1 Name: RFRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On_e	Mode	E	IEC 61850-7-4:2007,status-only
Beh	ABBIED600_Rev5_ENS_beh_e	Behaviour	E	IEC 61850-7-4:2007
NamPlt	ABBIED600_Rev1_LPL_InNs_1_e	Name plate	E	IEC 61850-7-4:2007
RelPhLoop	ABBIED600_Rev5_ENS_FltLoop_e	Release signals for PE-loops, GFC	E	ABBIED600:2014
RelPPLoop	ABBIED600_Rev5_ENS_FltLoop_e	Release signals for PP/3P loops. GFC	E	ABBIED600:2014
XcnDet	ABBIED600_Rev1_SPS_simple_e	Indication of a cross-country-fault (high imp. earthed), GFC	E	ABBIED600:2014
EFDet	ABBIED600_Rev1_SPS_simple_e	Indication of a single phase earth-fault, GFC	E	ABBIED600:2014
EFDir	AB-BIED600_Rev1_ACD_threephase_e	Earth-fault direction (low impedance earthed), GFC	E	ABBIED600:2014
ZnOpSt	ABBIED600_Rev1_INS_e	Time-delayed operate signal of all zones	E	ABBIED600:2014
DirZn1	AB-BIED600_Rev1_ACD_threephase_e	Direction of fault or load zone 1	E	ABBIED600:2014

DirRisZn1	ABBIED600_Rev4_MV_simple_i_e	Resistance used in dir. eval., zone 1	E	ABBIED600:2014
DirXZn1	ABBIED600_Rev4_MV_simple_i_e	Reactance used in dir. eval., zone 1	E	ABBIED600:2014
PhLoopRis1	ABBIED600_Rev4_MV_simple_i_e	First PE-loop resistance, zone 1	E	ABBIED600:2014
PhLoopX1	ABBIED600_Rev4_MV_simple_i_e	First PE-loop reactance, zone 1	E	ABBIED600:2014
PhLoopRis2	ABBIED600_Rev4_MV_simple_i_e	Second PE-loop resistance, zone 1	E	ABBIED600:2014
PhLoopX2	ABBIED600_Rev4_MV_simple_i_e	Second PE-loop reactance, zone 1	E	ABBIED600:2014
PPLoopRis	ABBIED600_Rev4_MV_simple_i_e	PP/3P-loop resistance, zone 1	E	ABBIED600:2014
PPLoopX	ABBIED600_Rev4_MV_simple_i_e	PP/3P-loop reactance, zone 1	E	ABBIED600:2014
PhX	ABBIED600_Rev4_MV_simple_i_e	Phase to earth reactance in phase domain, zone 1	E	ABBIED600:2014
DirRisZn2	ABBIED600_Rev4_MV_simple_i_e	Resistance used in dir. eval., zone 2	E	ABBIED600:2014
DirRisZn3	ABBIED600_Rev4_MV_simple_i_e	Resistance used in dir. eval., zone 3	E	ABBIED600:2014
DirRisZn4	ABBIED600_Rev4_MV_simple_i_e	Resistance used in dir. eval., zone 4	E	ABBIED600:2014
DirRisZn5	ABBIED600_Rev4_MV_simple_i_e	Resistance used in dir. eval., zone 5	E	ABBIED600:2014
DirXZn2	ABBIED600_Rev4_MV_simple_i_e	Reactance used in dir. eval., zone 2	E	ABBIED600:2014
DirXZn3	ABBIED600_Rev4_MV_simple_i_e	Reactance used in dir. eval., zone 3	E	ABBIED600:2014
DirXZn4	ABBIED600_Rev4_MV_simple_i_e	Reactance used in dir. eval., zone 4	E	ABBIED600:2014
DirXZn5	ABBIED600_Rev4_MV_simple_i_e	Reactance used in dir. eval., zone 5	E	ABBIED600:2014
PhRisFstZn2	ABBIED600_Rev4_MV_simple_i_e	First PE-loop resistance, zone 2	E	ABBIED600:2014
PhRisFstZn3	ABBIED600_Rev4_MV_simple_i_e	First PE-loop resistance, zone 3	E	ABBIED600:2014
PhRisFstZn4	ABBIED600_Rev4_MV_simple_i_e	First PE-loop resistance, zone 4	E	ABBIED600:2014
PhRisFstZn5	ABBIED600_Rev4_MV_simple_i_e	First PE-loop resistance, zone 5	E	ABBIED600:2014
PhXFstZn2	ABBIED600_Rev4_MV_simple_i_e	First PE-loop reactance, zone 2	E	ABBIED600:2014
PhXFstZn3	ABBIED600_Rev4_MV_simple_i_e	First PE-loop reactance, zone 3	E	ABBIED600:2014
PhXFstZn4	ABBIED600_Rev4_MV_simple_i_e	First PE-loop reactance, zone 4	E	ABBIED600:2014

PhXFstZn5	ABBIED600_Rev4_MV_simple_i_e	First PE-loop reactance, zone 5	E	ABBIED600:2014
PhRisS-cdZn2	ABBIED600_Rev4_MV_simple_i_e	Second PE-loop resistance, zone 2	E	ABBIED600:2014
PhRisS-cdZn3	ABBIED600_Rev4_MV_simple_i_e	Second PE-loop resistance, zone 3	E	ABBIED600:2014
PhRisS-cdZn4	ABBIED600_Rev4_MV_simple_i_e	Second PE-loop resistance, zone 4	E	ABBIED600:2014
PhRisS-cdZn5	ABBIED600_Rev4_MV_simple_i_e	Second PE-loop resistance, zone 5	E	ABBIED600:2014
PhXScdZn2	ABBIED600_Rev4_MV_simple_i_e	Second PE-loop reactance, zone 2	E	ABBIED600:2014
PhXScdZn3	ABBIED600_Rev4_MV_simple_i_e	Second PE-loop reactance, zone 3	E	ABBIED600:2014
PhXScdZn4	ABBIED600_Rev4_MV_simple_i_e	Second PE-loop reactance, zone 4	E	ABBIED600:2014
PhXScdZn5	ABBIED600_Rev4_MV_simple_i_e	Second PE-loop reactance, zone 5	E	ABBIED600:2014
PPRisZn2	ABBIED600_Rev4_MV_simple_i_e	PP/3P-loop resistance, zone 2	E	ABBIED600:2014
PPRisZn3	ABBIED600_Rev4_MV_simple_i_e	PP/3P-loop resistance, zone 3	E	ABBIED600:2014
PPRisZn4	ABBIED600_Rev4_MV_simple_i_e	PP/3P-loop resistance, zone 4	E	ABBIED600:2014
PPRisZn5	ABBIED600_Rev4_MV_simple_i_e	PP/3P-loop resistance, zone 5	E	ABBIED600:2014
PPXZn2	ABBIED600_Rev4_MV_simple_i_e	PP/3P-loop reactance, zone 2	E	ABBIED600:2014
PPXZn3	ABBIED600_Rev4_MV_simple_i_e	PP/3P-loop reactance, zone 3	E	ABBIED600:2014
PPXZn4	ABBIED600_Rev4_MV_simple_i_e	PP/3P-loop reactance, zone 4	E	ABBIED600:2014
PPXZn5	ABBIED600_Rev4_MV_simple_i_e	PP/3P-loop reactance, zone 5	E	ABBIED600:2014
PhXZn2	ABBIED600_Rev4_MV_simple_i_e	Phase to earth reactance in phase domain, zone 2	E	ABBIED600:2014
PhXZn3	ABBIED600_Rev4_MV_simple_i_e	Phase to earth reactance in phase domain, zone 3	E	ABBIED600:2014
PhXZn4	ABBIED600_Rev4_MV_simple_i_e	Phase to earth reactance in phase domain, zone 4	E	ABBIED600:2014
PhXZn5	ABBIED600_Rev4_MV_simple_i_e	Phase to earth reactance in phase domain, zone 5	E	ABBIED600:2014
DirZn2	AB-BIED600_Rev1_ACD_threephase_e	Direction of fault or load zone 2	E	IEC 61850-7-4:2007
DirZn3	AB-BIED600_Rev1_ACD_threephase_e	Direction of fault or load zone 3	E	IEC 61850-7-4:2007
DirZn4	AB-BIED600_Rev1_ACD_threephase_e	Direction of fault or load zone 4	E	IEC 61850-7-4:2007

DirZn5	AB-BIED600_Rev1_ACD_threephase_e	Direction of fault or load zone 5	E	IEC 61850-7-4:2007
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6.1.31 LN: BCCSPVC1 Name: SPVC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_ENC_Mod_On_e	Mode	E	IEC 61850-7-4:2007,status-only
Beh	ABBIED600_Rev5_ENS_beh_e	Behaviour	E	IEC 61850-7-4:2007
NamPlt	ABBIED600_Rev1_LPL_InNs_1_e	Name plate	E	IEC 61850-7-4:2007
FailACirc	AB-BIED600_Rev1_ACT_threephase	Detection of current circuit failure		
StrVal	ABBIED600_Rev3_ASG_SP_i	Minimum operate current differential level		
OpnCTDetRs	ABBIED600_Rev2_SPC_control	Reset open CT detection		status-only,direct-with-normal-security
EnaOpnCT	ABBIED600_Rev1_SPG_SP	Enable open CT detection		

6.1.32 LN: ZNRSRC1 Name: RSRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD_e	Mode	E	IEC 61850-7-4:2007,status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh_e	Behaviour	E	IEC 61850-7-4:2007
NamPlt	ABBIED600_Rev1_LPL_InNs_1_e	Name plate	E	IEC 61850-7-4:2007
ExclChkZn	ABBIED600_Rev1_SPS	Exclude from checkzone		
CTRatCor	ABBIED600_Rev3_ASG_SP_i	Current transformer ratio difference correction		
ZnRevPol	AB-BIED600_Rev2_ENG_SP_ZnRevPol	Zone current polarity reversal		
ActZn	ABBIED600_Rev1_ENG_SP_ActZn	Active zone		
PosDITmms	ABBIED600_Rev1_ING_SP_1	Event delay		
ClsCmdTmms	ABBIED600_Rev1_ING_SP_1	Close command timeout		
ConTyp	ABBIED600_Rev1_ENG_SP_ConTyp	Apparatus contact type		
OpExInd	ABBIED600_Rev1_SPS	External operate		
InDsaSt	ABBIED600_Rev1_SPS	Disabled		
ZnConn1	ABBIED600_Rev1_SPS	Active zone connection		
ZnConn2	ABBIED600_Rev1_SPS	Active zone connection		
Alm1	ABBIED600_Rev1_SPS_e	Alarm	E	IEC 61850-7-4:2007
Alm2	ABBIED600_Rev1_SPS_e	Alarm	E	IEC 61850-7-4:2007

TestProRI	ABBIED600_Rev8_ENC_TestProRI	Test control for outputs		status-only,direct-with-normal-security
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6.1.33 LN: LBRDOB1 Name: RDOB (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_Of-fOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev1_LPL_InNs_1	Name plate		
Blk	ABBIED600_Rev1_SPS_simple_e	Block	E	IEC 61850-7-4:2007
LodDsrFwd	ABBIED600_Rev1_SPS_simple	Load discrimination active in forward direction		
LodDsrRv	ABBIED600_Rev1_SPS_simple	Load discrimination active in reverse direction		
RisFwdLod	ABBIED600_Rev4_ASG_SG_i	Resistive forward reach for load discrimination		
RisRvLod	ABBIED600_Rev4_ASG_SG_i	Resistive reverse reach for load discrimination		
AngLodMax	ABBIED600_Rev4_ASG_SG_i	Maximum angle for load area		
AngLodMin	ABBIED600_Rev4_ASG_SG_i	Minimum angle for load area		
MinPsSeqV	ABBIED600_Rev3_ASG_SP_i	Minimum positive sequence voltage		
MaxNgSeqA	ABBIED600_Rev3_ASG_SP_i	Maximum negative sequence current		
DirMod	ABBIED600_Rev3_ENG_SG_Dir-Mod_e	Directional mode	E	IEC 61850-7-4:2007
TestProRI	ABBIED600_Rev8_ENC_TestProRI	Test control for outputs		status-only,direct-with-normal-security

6.1.34 LN: CMSWI1 Name: MSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev1_LPL_InNs_1	Name plate		
SelStSrc1	ABBIED600_Rev1_SPS	Source 1 selected		
SelStSrc2	ABBIED600_Rev1_SPS	Source 2 selected		
SelStSrc3	ABBIED600_Rev1_SPS	Source 3 selected		
SelStSrc4	ABBIED600_Rev1_SPS	Source 4 selected		
InSrcSwSt1	ABBIED600_Rev1_SPS	Switch logic input 1		
InSrcSwSt2	ABBIED600_Rev1_SPS	Switch logic input 2		
InSrcSwSt3	ABBIED600_Rev1_SPS	Switch logic input 3		
SrcUsed	ABBIED600_Rev2_ENS_BusSwPos_e	Switch position	E	ABBIED600:2014
Alm	ABBIED600_Rev1_SPS	Alarm		

Wrn	ABBIED600_Rev1_SPS	Warning		
AlmRes	ABBIED600_Rev1_SPS_e	Residual alarm	E	ABBIED600:2014
WrnRes	ABBIED600_Rev1_SPS_e	Residual warning	E	ABBIED600:2014

6.1.35 LN: VMSWI1 Name: MSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev1_LPL_InNs_1	Name plate		
SelStSrc1	ABBIED600_Rev1_SPS	Source 1 selected		
SelStSrc2	ABBIED600_Rev1_SPS	Source 2 selected		
SelStSrc3	ABBIED600_Rev1_SPS	Source 3 selected		
SelStSrc4	ABBIED600_Rev1_SPS	Source 4 selected		
InSrcSwSt1	ABBIED600_Rev1_SPS	Switch logic input 1		
InSrcSwSt2	ABBIED600_Rev1_SPS	Switch logic input 2		
InSrcSwSt3	ABBIED600_Rev1_SPS	Switch logic input 3		
SrcUsed	ABBIED600_Rev2_ENS_BusSwPos_e	Switch position	E	ABBIED600:2014
Alm	ABBIED600_Rev1_SPS	Alarm		
Wrn	ABBIED600_Rev1_SPS	Warning		
AlmRes	ABBIED600_Rev1_SPS_e	Residual alarm	E	ABBIED600:2014
WrnRes	ABBIED600_Rev1_SPS_e	Residual warning	E	ABBIED600:2014

6.2 Extented Logical Nodes

6.2.1 LN: LLN0 Name: LLN0 (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On-TestBlock	Test mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Health	ABBIED600_Rev4_ENS_health	Health		
NamPlt	ABBIED600_Rev8_LPL_LD0_LNN0_ED2	Name plate		
IndLEDRs	ABBIED600_Rev2_SPC_indications_e	Indications and LEDs	E	ABBIED600:2014,status-only,direct-with-normal-security
ProgLEDRs	ABBIED600_Rev2_SPC_indications_e	Programmable LEDs	E	ABBIED600:2014,status-only,direct-with-normal-security
MeasStartRs	ABBIED600_Rev2_SPC_control_e	Reset minimum and maximum demands	E	ABBIED600:2014,status-only,direct-with-normal-security
PQRs	ABBIED600_Rev2_SPC_control_e	Reset all power quality data	E	ABBIED600:2014,status-only,direct-with-normal-security

OpMod-SetGr	ABBIED600_Rev2_ENG_SP_Op-ModSG_e	Operation mode for setting group change	E	ABBIED600:2014
ActSetGr	ABBIED600_Rev2_INC_control_int_e	Active setting group	E	ABBIED600:2014,status-only,direct-with-normal-security
Act1SetGr	ABBIED600_Rev1_SPC_simple_e	Active setting group 1	E	ABBIED600:2014,status-only
Act2SetGr	ABBIED600_Rev1_SPC_simple_e	Active setting group 2	E	ABBIED600:2014,status-only
Act3SetGr	ABBIED600_Rev1_SPC_simple_e	Active setting group 3	E	ABBIED600:2014,status-only
Act4SetGr	ABBIED600_Rev1_SPC_simple_e	Active setting group 4	E	ABBIED600:2014,status-only
Act5SetGr	ABBIED600_Rev1_SPC_simple_e	Active setting group 5	E	ABBIED600:2014,status-only
Act6SetGr	ABBIED600_Rev1_SPC_simple_e	Active setting group 6	E	ABBIED600:2014,status-only
LgcSel-SetGr	ABBIED600_Rev1_SPC_simple_e	Logic selection for setting group	E	ABBIED600:2014,status-only
FcnSt	ABBIED600_Rev1_VSG_2_e	Configuration information	E	ABBIED600:2014
ParChgCnt	ABBIED600_Rev1_INS_retain_e	Number of setting changes	E	ABBIED600:2014
SetSvDIPct	ABBIED600_Rev5_ING_SP_Unit_e	SV delay based on nominal network frequency	E	ABBIED600:2014

6.2.2 LN: LPHD1 Name: LPHD (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
PhyNam	ABBSSC600_Rev7_DPL_ied_ED2	General info		
PhyHealth	ABBIED600_Rev4_ENS_health	General state		
Proxy	ABBIED600_Rev1_SPS	Proxy		
NumPwrUp	ABBIED600_Rev1_INS_retain	Number of Power ups		
WrmStr	ABBIED600_Rev1_INS_retain	Number of Warm starts		
WacTrg	ABBIED600_Rev1_INS_retain	Number of watchdog device resets detected		
PwrUp	ABBIED600_Rev1_SPS	Power up detected		
HwId	ABBIED600_Rev3_VSG_1_e	Hardware identifier	E	ABBIED600:2014
Sim	ABBIED600_Rev2_SPC_control	Receive simulated messages		status-only,direct-with-normal-security

6.2.3 LN: GSAL1 Name: GSAL (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
OpCntRs	ABBIED600_Rev1_INC_simple_int	Resetable Security Violations counter		status-only
NumCntRs	ABBIED600_Rev1_INS	Number of counter resets		

AuthFail	ABBIED600_Rev1_SEC	Authorization failures detected		
AcsCtlFail	ABBIED600_Rev1_SEC	Access control failures detected		
SvcViol	ABBIED600_Rev1_SEC	Service privilege violations		
Ina	ABBIED600_Rev1_SEC	Inactive associations		

6.2.4 LN: IHMI1 Name: IHMI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
CardNam	ABBIED600_Rev8_DPL_eeeprom_2_ED2_e	Card information	E	ABBIED600:2014
TestStald	ABBIED600_Rev1_LPL_VSS_dU_20_e	Testing	E	ABBIED600:2014
Hwld	ABBIED600_Rev1_LPL_VSS_1_20_e	HW module	E	ABBIED600:2014

6.2.5 LN: XGGIO100 Name: GGIO (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_OnOff_No-Blk	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
SPCSO1	ABBIED600_Rev2_SPC_control	X100-Output 1		status-only,direct-with-normal-security
SPCSO2	ABBIED600_Rev2_SPC_control	X100-Output 2		status-only,direct-with-normal-security
SPCSO3	ABBIED600_Rev2_SPC_control	X100-Output 3		status-only,direct-with-normal-security
SPCSO4	ABBIED600_Rev2_SPC_control	X100-Output 4		status-only,direct-with-normal-security
SPCSO5	ABBIED600_Rev2_SPC_control	X100-Output 5		status-only,direct-with-normal-security
SPCSO6	ABBIED600_Rev2_SPC_control	X100-Output 6		status-only,direct-with-normal-security
CardNam	ABBIED600_Rev8_DPL_eeeprom_2_ED2_e	Card information	E	ABBIED600:2014
Hwld	ABBIED600_Rev1_LPL_VSS_1_20_e	HW module	E	ABBIED600:2014
TestStald	ABBIED600_Rev1_LPL_VSS_dU_20_e	Testing	E	ABBIED600:2014

6.2.6 LN: LEDGGIO1 Name: GGIO (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Alm1	ABBIED600_Rev1_SPS_simple	Alarm input for LED 1		
Alm2	ABBIED600_Rev1_SPS_simple	Alarm input for LED 2		
Alm3	ABBIED600_Rev1_SPS_simple	Alarm input for LED 3		

Alm4	ABBIED600_Rev1_SPS_simple	Alarm input for LED 4		
Alm5	ABBIED600_Rev1_SPS_simple	Alarm input for LED 5		
Alm6	ABBIED600_Rev1_SPS_simple	Alarm input for LED 6		
Alm7	ABBIED600_Rev1_SPS_simple	Alarm input for LED 7		
Alm8	ABBIED600_Rev1_SPS_simple	Alarm input for LED 8		
Alm9	ABBIED600_Rev1_SPS_simple	Alarm input for LED 9		
Alm10	ABBIED600_Rev1_SPS_simple	Alarm input for LED 10		
Alm11	ABBIED600_Rev1_SPS_simple	Alarm input for LED 11		
Alm12	ABBIED600_Rev1_SPS_simple	Alarm input for LED 12		
Alm13	ABBIED600_Rev1_SPS_simple	Alarm input for LED 13		
Alm14	ABBIED600_Rev1_SPS_simple	Alarm input for LED 14		
Alm15	ABBIED600_Rev1_SPS_simple	Alarm input for LED 15		
Alm16	ABBIED600_Rev1_SPS_simple	Alarm input for LED 16		
Alm17	ABBIED600_Rev1_SPS_simple	Alarm input for LED 17		
Alm18	ABBIED600_Rev1_SPS_simple	Alarm input for LED 18		
Alm19	ABBIED600_Rev1_SPS_simple	Alarm input for LED 19		
Alm20	ABBIED600_Rev1_SPS_simple	Alarm input for LED 20		
Alm21	ABBIED600_Rev1_SPS_simple	Alarm input for LED 21		
Alm22	ABBIED600_Rev1_SPS_simple	Alarm input for LED 22		
Alm23	ABBIED600_Rev1_SPS_simple	Alarm input for LED 23		
Alm24	ABBIED600_Rev1_SPS_simple	Alarm input for LED 24		
Alm25	ABBIED600_Rev1_SPS_simple	Alarm input for LED 25		
Alm26	ABBIED600_Rev1_SPS_simple	Alarm input for LED 26		
Alm27	ABBIED600_Rev1_SPS_simple	Alarm input for LED 27		

Alm28	ABBIED600_Rev1_SPS_simple	Alarm input for LED 28		
Alm29	ABBIED600_Rev1_SPS_simple	Alarm input for LED 29		
Alm30	ABBIED600_Rev1_SPS_simple	Alarm input for LED 30		
Alm31	ABBIED600_Rev1_SPS_simple	Alarm input for LED 31		
Alm32	ABBIED600_Rev1_SPS_simple	Alarm input for LED 32		
Alm33	ABBIED600_Rev1_SPS_simple	Alarm input for LED 33		
Alm34	ABBIED600_Rev1_SPS_simple	Alarm input for LED 34		
Alm35	ABBIED600_Rev1_SPS_simple	Alarm input for LED 35		
Alm36	ABBIED600_Rev1_SPS_simple	Alarm input for LED 36		
Alm37	ABBIED600_Rev1_SPS_simple	Alarm input for LED 37		
Alm38	ABBIED600_Rev1_SPS_simple	Alarm input for LED 38		
Alm39	ABBIED600_Rev1_SPS_simple	Alarm input for LED 39		
Alm40	ABBIED600_Rev1_SPS_simple	Alarm input for LED 40		
Alm41	ABBIED600_Rev1_SPS_simple	Alarm input for LED 41		
Alm42	ABBIED600_Rev1_SPS_simple	Alarm input for LED 42		
Alm43	ABBIED600_Rev1_SPS_simple	Alarm input for LED 43		
Alm44	ABBIED600_Rev1_SPS_simple	Alarm input for LED 44		
Alm45	ABBIED600_Rev1_SPS_simple	Alarm input for LED 45		
Alm46	ABBIED600_Rev1_SPS_simple	Alarm input for LED 46		
Alm47	ABBIED600_Rev1_SPS_simple	Alarm input for LED 47		
Alm48	ABBIED600_Rev1_SPS_simple	Alarm input for LED 48		
Alm49	ABBIED600_Rev1_SPS_simple	Alarm input for LED 49		
Alm50	ABBIED600_Rev1_SPS_simple	Alarm input for LED 50		
Alm51	ABBIED600_Rev1_SPS_simple	Alarm input for LED 51		

Alm52	ABBIED600_Rev1_SPS_simple	Alarm input for LED 52		
Alm53	ABBIED600_Rev1_SPS_simple	Alarm input for LED 53		
Alm54	ABBIED600_Rev1_SPS_simple	Alarm input for LED 54		
Alm55	ABBIED600_Rev1_SPS_simple	Alarm input for LED 55		
Alm56	ABBIED600_Rev1_SPS_simple	Alarm input for LED 56		
Alm57	ABBIED600_Rev1_SPS_simple	Alarm input for LED 57		
Alm58	ABBIED600_Rev1_SPS_simple	Alarm input for LED 58		
Alm59	ABBIED600_Rev1_SPS_simple	Alarm input for LED 59		
Alm60	ABBIED600_Rev1_SPS_simple	Alarm input for LED 60		
Alm61	ABBIED600_Rev1_SPS_simple	Alarm input for LED 61		
Alm62	ABBIED600_Rev1_SPS_simple	Alarm input for LED 62		
Alm63	ABBIED600_Rev1_SPS_simple	Alarm input for LED 63		
Alm64	ABBIED600_Rev1_SPS_simple	Alarm input for LED 64		
Alm65	ABBIED600_Rev1_SPS_simple	Alarm input for LED 65		
Alm66	ABBIED600_Rev1_SPS_simple	Alarm input for LED 66		
Alm67	ABBIED600_Rev1_SPS_simple	Alarm input for LED 67		
Alm68	ABBIED600_Rev1_SPS_simple	Alarm input for LED 68		
Alm69	ABBIED600_Rev1_SPS_simple	Alarm input for LED 69		
Alm70	ABBIED600_Rev1_SPS_simple	Alarm input for LED 70		
Alm71	ABBIED600_Rev1_SPS_simple	Alarm input for LED 71		
Alm72	ABBIED600_Rev1_SPS_simple	Alarm input for LED 72		
Alm73	ABBIED600_Rev1_SPS_simple	Alarm input for LED 73		
Alm74	ABBIED600_Rev1_SPS_simple	Alarm input for LED 74		
Alm75	ABBIED600_Rev1_SPS_simple	Alarm input for LED 75		

Alm76	ABBIED600_Rev1_SPS_simple	Alarm input for LED 76		
Alm77	ABBIED600_Rev1_SPS_simple	Alarm input for LED 77		
Alm78	ABBIED600_Rev1_SPS_simple	Alarm input for LED 78		
Alm79	ABBIED600_Rev1_SPS_simple	Alarm input for LED 79		
Alm80	ABBIED600_Rev1_SPS_simple	Alarm input for LED 80		
Alm81	ABBIED600_Rev1_SPS_simple	Alarm input for LED 81		
Alm82	ABBIED600_Rev1_SPS_simple	Alarm input for LED 82		
Alm83	ABBIED600_Rev1_SPS_simple	Alarm input for LED 83		
Alm84	ABBIED600_Rev1_SPS_simple	Alarm input for LED 84		
Alm85	ABBIED600_Rev1_SPS_simple	Alarm input for LED 85		
Alm86	ABBIED600_Rev1_SPS_simple	Alarm input for LED 86		
Alm87	ABBIED600_Rev1_SPS_simple	Alarm input for LED 87		
Alm88	ABBIED600_Rev1_SPS_simple	Alarm input for LED 88		
Alm89	ABBIED600_Rev1_SPS_simple	Alarm input for LED 89		
Alm90	ABBIED600_Rev1_SPS_simple	Alarm input for LED 90		
Alm91	ABBIED600_Rev1_SPS_simple	Alarm input for LED 91		
Alm92	ABBIED600_Rev1_SPS_simple	Alarm input for LED 92		
Alm93	ABBIED600_Rev1_SPS_simple	Alarm input for LED 93		
Alm94	ABBIED600_Rev1_SPS_simple	Alarm input for LED 94		
Alm95	ABBIED600_Rev1_SPS_simple	Alarm input for LED 95		
Alm96	ABBIED600_Rev1_SPS_simple	Alarm input for LED 96		
Alm97	ABBIED600_Rev1_SPS_simple	Alarm input for LED 97		
Alm98	ABBIED600_Rev1_SPS_simple	Alarm input for LED 98		
Alm99	ABBIED600_Rev1_SPS_simple	Alarm input for LED 99		

Alm100	ABBIED600_Rev1_SPS_simple	Alarm input for LED 100		
Ind1	ABBIED600_Rev1_SPS_simple	Ok input for LED 1		
Ind2	ABBIED600_Rev1_SPS_simple	Ok input for LED 2		
Ind3	ABBIED600_Rev1_SPS_simple	Ok input for LED 3		
Ind4	ABBIED600_Rev1_SPS_simple	Ok input for LED 4		
Ind5	ABBIED600_Rev1_SPS_simple	Ok input for LED 5		
Ind6	ABBIED600_Rev1_SPS_simple	Ok input for LED 6		
Ind7	ABBIED600_Rev1_SPS_simple	Ok input for LED 7		
Ind8	ABBIED600_Rev1_SPS_simple	Ok input for LED 8		
Ind9	ABBIED600_Rev1_SPS_simple	Ok input for LED 9		
Ind10	ABBIED600_Rev1_SPS_simple	Ok input for LED 10		
Ind11	ABBIED600_Rev1_SPS_simple	Ok input for LED 11		
Ind12	ABBIED600_Rev1_SPS_simple	Ok input for LED 12		
Ind13	ABBIED600_Rev1_SPS_simple	Ok input for LED 13		
Ind14	ABBIED600_Rev1_SPS_simple	Ok input for LED 14		
Ind15	ABBIED600_Rev1_SPS_simple	Ok input for LED 15		
Ind16	ABBIED600_Rev1_SPS_simple	Ok input for LED 16		
Ind17	ABBIED600_Rev1_SPS_simple	Ok input for LED 17		
Ind18	ABBIED600_Rev1_SPS_simple	Ok input for LED 18		
Ind19	ABBIED600_Rev1_SPS_simple	Ok input for LED 19		
Ind20	ABBIED600_Rev1_SPS_simple	Ok input for LED 20		
Ind21	ABBIED600_Rev1_SPS_simple	Ok input for LED 21		
Ind22	ABBIED600_Rev1_SPS_simple	Ok input for LED 22		
Ind23	ABBIED600_Rev1_SPS_simple	Ok input for LED 23		

Ind24	ABBIED600_Rev1_SPS_simple	Ok input for LED 24		
Ind25	ABBIED600_Rev1_SPS_simple	Ok input for LED 25		
Ind26	ABBIED600_Rev1_SPS_simple	Ok input for LED 26		
Ind27	ABBIED600_Rev1_SPS_simple	Ok input for LED 27		
Ind28	ABBIED600_Rev1_SPS_simple	Ok input for LED 28		
Ind29	ABBIED600_Rev1_SPS_simple	Ok input for LED 29		
Ind30	ABBIED600_Rev1_SPS_simple	Ok input for LED 30		
Ind31	ABBIED600_Rev1_SPS_simple	Ok input for LED 31		
Ind32	ABBIED600_Rev1_SPS_simple	Ok input for LED 32		
Ind33	ABBIED600_Rev1_SPS_simple	Ok input for LED 33		
Ind34	ABBIED600_Rev1_SPS_simple	Ok input for LED 34		
Ind35	ABBIED600_Rev1_SPS_simple	Ok input for LED 35		
Ind36	ABBIED600_Rev1_SPS_simple	Ok input for LED 36		
Ind37	ABBIED600_Rev1_SPS_simple	Ok input for LED 37		
Ind38	ABBIED600_Rev1_SPS_simple	Ok input for LED 38		
Ind39	ABBIED600_Rev1_SPS_simple	Ok input for LED 39		
Ind40	ABBIED600_Rev1_SPS_simple	Ok input for LED 40		
Ind41	ABBIED600_Rev1_SPS_simple	Ok input for LED 41		
Ind42	ABBIED600_Rev1_SPS_simple	Ok input for LED 42		
Ind43	ABBIED600_Rev1_SPS_simple	Ok input for LED 43		
Ind44	ABBIED600_Rev1_SPS_simple	Ok input for LED 44		
Ind45	ABBIED600_Rev1_SPS_simple	Ok input for LED 45		
Ind46	ABBIED600_Rev1_SPS_simple	Ok input for LED 46		
Ind47	ABBIED600_Rev1_SPS_simple	Ok input for LED 47		

Ind48	ABBIED600_Rev1_SPS_simple	Ok input for LED 48		
Ind49	ABBIED600_Rev1_SPS_simple	Ok input for LED 49		
Ind50	ABBIED600_Rev1_SPS_simple	Ok input for LED 50		
Ind51	ABBIED600_Rev1_SPS_simple	Ok input for LED 51		
Ind52	ABBIED600_Rev1_SPS_simple	Ok input for LED 52		
Ind53	ABBIED600_Rev1_SPS_simple	Ok input for LED 53		
Ind54	ABBIED600_Rev1_SPS_simple	Ok input for LED 54		
Ind55	ABBIED600_Rev1_SPS_simple	Ok input for LED 55		
Ind56	ABBIED600_Rev1_SPS_simple	Ok input for LED 56		
Ind57	ABBIED600_Rev1_SPS_simple	Ok input for LED 57		
Ind58	ABBIED600_Rev1_SPS_simple	Ok input for LED 58		
Ind59	ABBIED600_Rev1_SPS_simple	Ok input for LED 59		
Ind60	ABBIED600_Rev1_SPS_simple	Ok input for LED 60		
Ind61	ABBIED600_Rev1_SPS_simple	Ok input for LED 61		
Ind62	ABBIED600_Rev1_SPS_simple	Ok input for LED 62		
Ind63	ABBIED600_Rev1_SPS_simple	Ok input for LED 63		
Ind64	ABBIED600_Rev1_SPS_simple	Ok input for LED 64		
Ind65	ABBIED600_Rev1_SPS_simple	Ok input for LED 65		
Ind66	ABBIED600_Rev1_SPS_simple	Ok input for LED 66		
Ind67	ABBIED600_Rev1_SPS_simple	Ok input for LED 67		
Ind68	ABBIED600_Rev1_SPS_simple	Ok input for LED 68		
Ind69	ABBIED600_Rev1_SPS_simple	Ok input for LED 69		
Ind70	ABBIED600_Rev1_SPS_simple	Ok input for LED 70		
Ind71	ABBIED600_Rev1_SPS_simple	Ok input for LED 71		

Ind72	ABBIED600_Rev1_SPS_simple	Ok input for LED 72		
Ind73	ABBIED600_Rev1_SPS_simple	Ok input for LED 73		
Ind74	ABBIED600_Rev1_SPS_simple	Ok input for LED 74		
Ind75	ABBIED600_Rev1_SPS_simple	Ok input for LED 75		
Ind76	ABBIED600_Rev1_SPS_simple	Ok input for LED 76		
Ind77	ABBIED600_Rev1_SPS_simple	Ok input for LED 77		
Ind78	ABBIED600_Rev1_SPS_simple	Ok input for LED 78		
Ind79	ABBIED600_Rev1_SPS_simple	Ok input for LED 79		
Ind80	ABBIED600_Rev1_SPS_simple	Ok input for LED 80		
Ind81	ABBIED600_Rev1_SPS_simple	Ok input for LED 81		
Ind82	ABBIED600_Rev1_SPS_simple	Ok input for LED 82		
Ind83	ABBIED600_Rev1_SPS_simple	Ok input for LED 83		
Ind84	ABBIED600_Rev1_SPS_simple	Ok input for LED 84		
Ind85	ABBIED600_Rev1_SPS_simple	Ok input for LED 85		
Ind86	ABBIED600_Rev1_SPS_simple	Ok input for LED 86		
Ind87	ABBIED600_Rev1_SPS_simple	Ok input for LED 87		
Ind88	ABBIED600_Rev1_SPS_simple	Ok input for LED 88		
Ind89	ABBIED600_Rev1_SPS_simple	Ok input for LED 89		
Ind90	ABBIED600_Rev1_SPS_simple	Ok input for LED 90		
Ind91	ABBIED600_Rev1_SPS_simple	Ok input for LED 91		
Ind92	ABBIED600_Rev1_SPS_simple	Ok input for LED 92		
Ind93	ABBIED600_Rev1_SPS_simple	Ok input for LED 93		
Ind94	ABBIED600_Rev1_SPS_simple	Ok input for LED 94		
Ind95	ABBIED600_Rev1_SPS_simple	Ok input for LED 95		

Ind96	ABBIED600_Rev1_SPS_simple	Ok input for LED 96		
Ind97	ABBIED600_Rev1_SPS_simple	Ok input for LED 97		
Ind98	ABBIED600_Rev1_SPS_simple	Ok input for LED 98		
Ind99	ABBIED600_Rev1_SPS_simple	Ok input for LED 99		
Ind100	ABBIED600_Rev1_SPS_simple	Ok input for LED 100		
LEDSt1	ABBIED600_Rev4_ENC_control_led_e	LED 1	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt2	ABBIED600_Rev4_ENC_control_led_e	LED 2	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt3	ABBIED600_Rev4_ENC_control_led_e	LED 3	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt4	ABBIED600_Rev4_ENC_control_led_e	LED 4	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt5	ABBIED600_Rev4_ENC_control_led_e	LED 5	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt6	ABBIED600_Rev4_ENC_control_led_e	LED 6	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt7	ABBIED600_Rev4_ENC_control_led_e	LED 7	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt8	ABBIED600_Rev4_ENC_control_led_e	LED 8	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt9	ABBIED600_Rev4_ENC_control_led_e	LED 9	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt10	ABBIED600_Rev4_ENC_control_led_e	LED 10	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt11	ABBIED600_Rev4_ENC_control_led_e	LED 11	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt12	ABBIED600_Rev4_ENC_control_led_e	LED 12	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt13	ABBIED600_Rev4_ENC_control_led_e	LED 13	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt14	ABBIED600_Rev4_ENC_control_led_e	LED 14	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt15	ABBIED600_Rev4_ENC_control_led_e	LED 15	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt16	ABBIED600_Rev4_ENC_control_led_e	LED 16	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt17	ABBIED600_Rev4_ENC_control_led_e	LED 17	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt18	ABBIED600_Rev4_ENC_control_led_e	LED 18	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt19	ABBIED600_Rev4_ENC_control_led_e	LED 19	E	ABBIED600:2014,status-only,direct-with-normal-security

LEDSt20	ABBIED600_Rev4_ENC_control_led_e	LED 20	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt21	ABBIED600_Rev4_ENC_control_led_e	LED 21	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt22	ABBIED600_Rev4_ENC_control_led_e	LED 22	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt23	ABBIED600_Rev4_ENC_control_led_e	LED 23	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt24	ABBIED600_Rev4_ENC_control_led_e	LED 24	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt25	ABBIED600_Rev4_ENC_control_led_e	LED 25	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt26	ABBIED600_Rev4_ENC_control_led_e	LED 26	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt27	ABBIED600_Rev4_ENC_control_led_e	LED 27	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt28	ABBIED600_Rev4_ENC_control_led_e	LED 28	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt29	ABBIED600_Rev4_ENC_control_led_e	LED 29	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt30	ABBIED600_Rev4_ENC_control_led_e	LED 30	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt31	ABBIED600_Rev4_ENC_control_led_e	LED 31	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt32	ABBIED600_Rev4_ENC_control_led_e	LED 32	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt33	ABBIED600_Rev4_ENC_control_led_e	LED 33	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt34	ABBIED600_Rev4_ENC_control_led_e	LED 34	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt35	ABBIED600_Rev4_ENC_control_led_e	LED 35	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt36	ABBIED600_Rev4_ENC_control_led_e	LED 36	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt37	ABBIED600_Rev4_ENC_control_led_e	LED 37	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt38	ABBIED600_Rev4_ENC_control_led_e	LED 38	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt39	ABBIED600_Rev4_ENC_control_led_e	LED 39	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt40	ABBIED600_Rev4_ENC_control_led_e	LED 40	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt41	ABBIED600_Rev4_ENC_control_led_e	LED 41	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt42	ABBIED600_Rev4_ENC_control_led_e	LED 42	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt43	ABBIED600_Rev4_ENC_control_led_e	LED 43	E	ABBIED600:2014,status-only,direct-with-normal-security

LEDSt44	ABBIED600_Rev4_ENC_control_led_e	LED 44	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt45	ABBIED600_Rev4_ENC_control_led_e	LED 45	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt46	ABBIED600_Rev4_ENC_control_led_e	LED 46	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt47	ABBIED600_Rev4_ENC_control_led_e	LED 47	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt48	ABBIED600_Rev4_ENC_control_led_e	LED 48	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt49	ABBIED600_Rev4_ENC_control_led_e	LED 49	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt50	ABBIED600_Rev4_ENC_control_led_e	LED 50	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt51	ABBIED600_Rev4_ENC_control_led_e	LED 51	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt52	ABBIED600_Rev4_ENC_control_led_e	LED 52	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt53	ABBIED600_Rev4_ENC_control_led_e	LED 53	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt54	ABBIED600_Rev4_ENC_control_led_e	LED 54	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt55	ABBIED600_Rev4_ENC_control_led_e	LED 55	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt56	ABBIED600_Rev4_ENC_control_led_e	LED 56	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt57	ABBIED600_Rev4_ENC_control_led_e	LED 57	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt58	ABBIED600_Rev4_ENC_control_led_e	LED 58	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt59	ABBIED600_Rev4_ENC_control_led_e	LED 59	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt60	ABBIED600_Rev4_ENC_control_led_e	LED 60	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt61	ABBIED600_Rev4_ENC_control_led_e	LED 61	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt62	ABBIED600_Rev4_ENC_control_led_e	LED 62	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt63	ABBIED600_Rev4_ENC_control_led_e	LED 63	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt64	ABBIED600_Rev4_ENC_control_led_e	LED 64	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt65	ABBIED600_Rev4_ENC_control_led_e	LED 65	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt66	ABBIED600_Rev4_ENC_control_led_e	LED 66	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt67	ABBIED600_Rev4_ENC_control_led_e	LED 67	E	ABBIED600:2014,status-only,direct-with-normal-security

LEDSt68	ABBIED600_Rev4_ENC_control_led_e	LED 68	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt69	ABBIED600_Rev4_ENC_control_led_e	LED 69	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt70	ABBIED600_Rev4_ENC_control_led_e	LED 70	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt71	ABBIED600_Rev4_ENC_control_led_e	LED 71	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt72	ABBIED600_Rev4_ENC_control_led_e	LED 72	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt73	ABBIED600_Rev4_ENC_control_led_e	LED 73	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt74	ABBIED600_Rev4_ENC_control_led_e	LED 74	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt75	ABBIED600_Rev4_ENC_control_led_e	LED 75	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt76	ABBIED600_Rev4_ENC_control_led_e	LED 76	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt77	ABBIED600_Rev4_ENC_control_led_e	LED 77	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt78	ABBIED600_Rev4_ENC_control_led_e	LED 78	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt79	ABBIED600_Rev4_ENC_control_led_e	LED 79	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt80	ABBIED600_Rev4_ENC_control_led_e	LED 80	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt81	ABBIED600_Rev4_ENC_control_led_e	LED 81	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt82	ABBIED600_Rev4_ENC_control_led_e	LED 82	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt83	ABBIED600_Rev4_ENC_control_led_e	LED 83	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt84	ABBIED600_Rev4_ENC_control_led_e	LED 84	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt85	ABBIED600_Rev4_ENC_control_led_e	LED 85	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt86	ABBIED600_Rev4_ENC_control_led_e	LED 86	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt87	ABBIED600_Rev4_ENC_control_led_e	LED 87	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt88	ABBIED600_Rev4_ENC_control_led_e	LED 88	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt89	ABBIED600_Rev4_ENC_control_led_e	LED 89	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt90	ABBIED600_Rev4_ENC_control_led_e	LED 90	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt91	ABBIED600_Rev4_ENC_control_led_e	LED 91	E	ABBIED600:2014,status-only,direct-with-normal-security

LEDSt92	ABBIED600_Rev4_ENC_control_led_e	LED 92	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt93	ABBIED600_Rev4_ENC_control_led_e	LED 93	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt94	ABBIED600_Rev4_ENC_control_led_e	LED 94	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt95	ABBIED600_Rev4_ENC_control_led_e	LED 95	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt96	ABBIED600_Rev4_ENC_control_led_e	LED 96	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt97	ABBIED600_Rev4_ENC_control_led_e	LED 97	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt98	ABBIED600_Rev4_ENC_control_led_e	LED 98	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt99	ABBIED600_Rev4_ENC_control_led_e	LED 99	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt100	ABBIED600_Rev4_ENC_control_led_e	LED 100	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSeq1	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq2	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq3	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq4	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq5	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq6	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq7	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq8	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq9	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq10	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq11	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq12	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq13	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq14	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq15	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014

LEDSeq16	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq17	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq18	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq19	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq20	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq21	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq22	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq23	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq24	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq25	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq26	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq27	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq28	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq29	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq30	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq31	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq32	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq33	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq34	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq35	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq36	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq37	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq38	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq39	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014

LEDSeq40	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq41	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq42	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq43	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq44	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq45	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq46	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq47	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq48	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq49	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq50	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq51	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq52	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq53	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq54	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq55	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq56	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq57	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq58	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq59	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq60	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq61	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq62	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq63	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014

LEDSeq64	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq65	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq66	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq67	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq68	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq69	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq70	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq71	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq72	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq73	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq74	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq75	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq76	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq77	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq78	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq79	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq80	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq81	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq82	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq83	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq84	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq85	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq86	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq87	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014

LEDSeq88	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq89	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq90	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq91	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq92	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq93	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq94	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq95	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq96	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq97	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq98	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq99	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
LEDSeq100	ABBIED600_Rev3_ENG_SP_Led-Mode_e	Alarm mode	E	ABBIED600:2014
InRsLED1	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 1	E	ABBIED600:2014
InRsLED2	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 2	E	ABBIED600:2014
InRsLED3	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 3	E	ABBIED600:2014
InRsLED4	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 4	E	ABBIED600:2014
InRsLED5	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 5	E	ABBIED600:2014
InRsLED6	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 6	E	ABBIED600:2014
InRsLED7	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 7	E	ABBIED600:2014
InRsLED8	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 8	E	ABBIED600:2014
InRsLED9	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 9	E	ABBIED600:2014
InRsLED10	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 10	E	ABBIED600:2014
InRsLED11	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 11	E	ABBIED600:2014

InRsLED12	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 12	E	ABBIED600:2014
InRsLED13	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 13	E	ABBIED600:2014
InRsLED14	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 14	E	ABBIED600:2014
InRsLED15	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 15	E	ABBIED600:2014
InRsLED16	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 16	E	ABBIED600:2014
InRsLED17	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 17	E	ABBIED600:2014
InRsLED18	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 18	E	ABBIED600:2014
InRsLED19	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 19	E	ABBIED600:2014
InRsLED20	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 20	E	ABBIED600:2014
InRsLED21	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 21	E	ABBIED600:2014
InRsLED22	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 22	E	ABBIED600:2014
InRsLED23	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 23	E	ABBIED600:2014
InRsLED24	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 24	E	ABBIED600:2014
InRsLED25	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 25	E	ABBIED600:2014
InRsLED26	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 26	E	ABBIED600:2014
InRsLED27	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 27	E	ABBIED600:2014
InRsLED28	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 28	E	ABBIED600:2014
InRsLED29	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 29	E	ABBIED600:2014
InRsLED30	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 30	E	ABBIED600:2014
InRsLED31	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 31	E	ABBIED600:2014
InRsLED32	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 32	E	ABBIED600:2014
InRsLED33	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 33	E	ABBIED600:2014
InRsLED34	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 34	E	ABBIED600:2014
InRsLED35	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 35	E	ABBIED600:2014

InRsLED36	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 36	E	ABBIED600:2014
InRsLED37	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 37	E	ABBIED600:2014
InRsLED38	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 38	E	ABBIED600:2014
InRsLED39	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 39	E	ABBIED600:2014
InRsLED40	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 40	E	ABBIED600:2014
InRsLED41	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 41	E	ABBIED600:2014
InRsLED42	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 42	E	ABBIED600:2014
InRsLED43	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 43	E	ABBIED600:2014
InRsLED44	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 44	E	ABBIED600:2014
InRsLED45	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 45	E	ABBIED600:2014
InRsLED46	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 46	E	ABBIED600:2014
InRsLED47	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 47	E	ABBIED600:2014
InRsLED48	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 48	E	ABBIED600:2014
InRsLED49	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 49	E	ABBIED600:2014
InRsLED50	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 50	E	ABBIED600:2014
InRsLED51	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 51	E	ABBIED600:2014
InRsLED52	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 52	E	ABBIED600:2014
InRsLED53	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 53	E	ABBIED600:2014
InRsLED54	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 54	E	ABBIED600:2014
InRsLED55	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 55	E	ABBIED600:2014
InRsLED56	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 56	E	ABBIED600:2014
InRsLED57	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 57	E	ABBIED600:2014
InRsLED58	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 58	E	ABBIED600:2014
InRsLED59	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 59	E	ABBIED600:2014

InRsLED60	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 60	E	ABBIED600:2014
InRsLED61	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 61	E	ABBIED600:2014
InRsLED62	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 62	E	ABBIED600:2014
InRsLED63	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 63	E	ABBIED600:2014
InRsLED64	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 64	E	ABBIED600:2014
InRsLED65	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 65	E	ABBIED600:2014
InRsLED66	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 66	E	ABBIED600:2014
InRsLED67	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 67	E	ABBIED600:2014
InRsLED68	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 68	E	ABBIED600:2014
InRsLED69	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 69	E	ABBIED600:2014
InRsLED70	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 70	E	ABBIED600:2014
InRsLED71	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 71	E	ABBIED600:2014
InRsLED72	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 72	E	ABBIED600:2014
InRsLED73	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 73	E	ABBIED600:2014
InRsLED74	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 74	E	ABBIED600:2014
InRsLED75	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 75	E	ABBIED600:2014
InRsLED76	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 76	E	ABBIED600:2014
InRsLED77	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 77	E	ABBIED600:2014
InRsLED78	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 78	E	ABBIED600:2014
InRsLED79	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 79	E	ABBIED600:2014
InRsLED80	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 80	E	ABBIED600:2014
InRsLED81	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 81	E	ABBIED600:2014
InRsLED82	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 82	E	ABBIED600:2014
InRsLED83	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 83	E	ABBIED600:2014

InRsLED84	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 84	E	ABBIED600:2014
InRsLED85	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 85	E	ABBIED600:2014
InRsLED86	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 86	E	ABBIED600:2014
InRsLED87	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 87	E	ABBIED600:2014
InRsLED88	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 88	E	ABBIED600:2014
InRsLED89	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 89	E	ABBIED600:2014
InRsLED90	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 90	E	ABBIED600:2014
InRsLED91	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 91	E	ABBIED600:2014
InRsLED92	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 92	E	ABBIED600:2014
InRsLED93	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 93	E	ABBIED600:2014
InRsLED94	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 94	E	ABBIED600:2014
InRsLED95	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 95	E	ABBIED600:2014
InRsLED96	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 96	E	ABBIED600:2014
InRsLED97	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 97	E	ABBIED600:2014
InRsLED98	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 98	E	ABBIED600:2014
InRsLED99	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 99	E	ABBIED600:2014
InRsLED100	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 100	E	ABBIED600:2014
AlmColr	ABBIED600_Rev3_ENG_SP_Led-Color_e	Alarm colour	E	ABBIED600:2014

6.2.7 LN: GNRLLTMS1 Name: LTMS (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
TmAcc	ABBIED600_Rev1_INS	Number of significant bits in the Fraction Of Second in the time accuracy part of the time stamp.		
TmSrc	ABBIED600_Rev1_LPL_VSS_1_64	Current time source		
TmSyn	ABBIED600_Rev1_ENS_TmSyn	Time synchronized according to IEC 61850-9-2		
TmChSt1	ABBIED600_Rev1_SPS	Time channel status (up/down)		

TmSrcSel1	AB-BIED600_Rev6_ENG_SP_SyncSrc_e	Time source setting ("1588" in case the time source is a IEEE 1588 source or dotted IP-address)	E	AB-BIED600:2014
TmSrcSt	ABBIED600_Rev4_ENS_TmSrc_e	Current time source	E	AB-BIED600:2014
DomId	ABBIED600_Rev1_ING_SP_1_e	The domain is identified by an integer, the domainNumber, in the range of 0 to 127.	E	AB-BIED600:2014
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	IEC 61850-7-4:2007
Wrn	ABBIED600_Rev1_SPS_e	Warning	E	IEC 61850-7-4:2007
MstrId	ABBIED600_Rev2_VSG_1_20_e	Grandmaster Identity octet string according to PTPv2	E	AB-BIED600:2014
IPAdrSNTP1	ABBIED600_Rev3_VSG_2_20_e	IP address for SNTP primary server	E	AB-BIED600:2014
IPAdrSNTP2	ABBIED600_Rev3_VSG_2_20_e	IP address for SNTP secondary server	E	AB-BIED600:2014
PTPProf-Mod	ABBIED600_Rev1_ENG_SP_PTPProf-Mod_e	PTP Profile Mode	E	AB-BIED600:2014

6.2.8 LN: GNRLTIM1 Name: LTIM (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
TmDT	ABBIED600_Rev1_SPS	Indicating if DST is in effect		
TmOfsTmm	ABBIED600_Rev1_ING_SP_1	Offset of local time from UTC in minutes		
TmUseDT	ABBIED600_Rev1_SPG_SP	DST in use setting		
TmChgDT	ABBIED600_Rev3_TSG_SP_set-Cal	Local time of next change to daylight saving time		
TmChgST	ABBIED600_Rev3_TSG_SP_set-Cal	Local time of next change to standard time		
TmSys	ABBIED600_Rev3_VSG_2_20_e	System time	E	AB-BIED600:2014
DateSys	ABBIED600_Rev3_VSG_2_20_e	System date	E	AB-BIED600:2014
TmOfsDT	ABBIED600_Rev1_ING_SP_1_e	Daylight saving time offset	E	AB-BIED600:2014

6.2.9 LN: SRGAPC1 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Ind1	ABBIED600_Rev1_SPS	S1		

Ind2	ABBIED600_Rev1_SPS	S2		
Ind3	ABBIED600_Rev1_SPS	S3		
Ind4	ABBIED600_Rev1_SPS	S4		
Ind5	ABBIED600_Rev1_SPS	S5		
Ind6	ABBIED600_Rev1_SPS	S6		
Ind7	ABBIED600_Rev1_SPS	S7		
Ind8	ABBIED600_Rev1_SPS	S8		
SPCSO1	ABBIED600_Rev1_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple	Q2		status-only
SPCSO3	ABBIED600_Rev1_SPC_simple	Q3		status-only
SPCSO4	ABBIED600_Rev1_SPC_simple	Q4		status-only
SPCSO5	ABBIED600_Rev1_SPC_simple	Q5		status-only
SPCSO6	ABBIED600_Rev1_SPC_simple	Q6		status-only
SPCSO7	ABBIED600_Rev1_SPC_simple	Q7		status-only
SPCSO8	ABBIED600_Rev1_SPC_simple	Q8		status-only
Rs1	ABBIED600_Rev2_SPC_control_e	R1	E	ABBIED600:2014,status-only,direct-with-normal-security
Rs2	ABBIED600_Rev2_SPC_control_e	R2	E	ABBIED600:2014,status-only,direct-with-normal-security
Rs3	ABBIED600_Rev2_SPC_control_e	R3	E	ABBIED600:2014,status-only,direct-with-normal-security
Rs4	ABBIED600_Rev2_SPC_control_e	R4	E	ABBIED600:2014,status-only,direct-with-normal-security
Rs5	ABBIED600_Rev2_SPC_control_e	R5	E	ABBIED600:2014,status-only,direct-with-normal-security
Rs6	ABBIED600_Rev2_SPC_control_e	R6	E	ABBIED600:2014,status-only,direct-with-normal-security
Rs7	ABBIED600_Rev2_SPC_control_e	R7	E	ABBIED600:2014,status-only,direct-with-normal-security
Rs8	ABBIED600_Rev2_SPC_control_e	R8	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.10 LN: TONGAPC1 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
Ind3	ABBIED600_Rev1_SPS	IN3		
Ind4	ABBIED600_Rev1_SPS	IN4		
Ind5	ABBIED600_Rev1_SPS	IN5		
Ind6	ABBIED600_Rev1_SPS	IN6		
Ind7	ABBIED600_Rev1_SPS	IN7		
Ind8	ABBIED600_Rev1_SPS	IN8		
SPCSO1	ABBIED600_Rev1_SPC_simple	Q1		status-only

SPCSO2	ABBIED600_Rev1_SPC_simple	Q2		status-only
SPCSO3	ABBIED600_Rev1_SPC_simple	Q3		status-only
SPCSO4	ABBIED600_Rev1_SPC_simple	Q4		status-only
SPCSO5	ABBIED600_Rev1_SPC_simple	Q5		status-only
SPCSO6	ABBIED600_Rev1_SPC_simple	Q6		status-only
SPCSO7	ABBIED600_Rev1_SPC_simple	Q7		status-only
SPCSO8	ABBIED600_Rev1_SPC_simple	Q8		status-only
OnDITmms1	ABBIED600_Rev1_ING_SP_e	On delay time 1	E	ABBIED600:2014
OnDITmms2	ABBIED600_Rev1_ING_SP_e	On delay time 2	E	ABBIED600:2014
OnDITmms3	ABBIED600_Rev1_ING_SP_e	On delay time 3	E	ABBIED600:2014
OnDITmms4	ABBIED600_Rev1_ING_SP_e	On delay time 4	E	ABBIED600:2014
OnDITmms5	ABBIED600_Rev1_ING_SP_e	On delay time 5	E	ABBIED600:2014
OnDITmms6	ABBIED600_Rev1_ING_SP_e	On delay time 6	E	ABBIED600:2014
OnDITmms7	ABBIED600_Rev1_ING_SP_e	On delay time 7	E	ABBIED600:2014
OnDITmms8	ABBIED600_Rev1_ING_SP_e	On delay time 8	E	ABBIED600:2014

6.2.11 LN: TOFGAPC1 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Ind1	ABBIED600_Rev1_SPS	Input 1		
Ind2	ABBIED600_Rev1_SPS	Input 2		
Ind3	ABBIED600_Rev1_SPS	Input 3		
Ind4	ABBIED600_Rev1_SPS	Input 4		
Ind5	ABBIED600_Rev1_SPS	Input 5		
Ind6	ABBIED600_Rev1_SPS	Input 6		
Ind7	ABBIED600_Rev1_SPS	Input 7		
Ind8	ABBIED600_Rev1_SPS	Input 8		
SPCSO1	ABBIED600_Rev1_SPC_simple	Output 1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple	Output 2		status-only
SPCSO3	ABBIED600_Rev1_SPC_simple	Output 3		status-only
SPCSO4	ABBIED600_Rev1_SPC_simple	Output 4		status-only
SPCSO5	ABBIED600_Rev1_SPC_simple	Output 5		status-only
SPCSO6	ABBIED600_Rev1_SPC_simple	Output 6		status-only
SPCSO7	ABBIED600_Rev1_SPC_simple	Output 7		status-only
SPCSO8	ABBIED600_Rev1_SPC_simple	Output 8		status-only
OffDITmms1	ABBIED600_Rev1_ING_SP_e	Off delay time 1	E	ABBIED600:2014
OffDITmms2	ABBIED600_Rev1_ING_SP_e	Off delay time 2	E	ABBIED600:2014
OffDITmms3	ABBIED600_Rev1_ING_SP_e	Off delay time 3	E	ABBIED600:2014
OffDITmms4	ABBIED600_Rev1_ING_SP_e	Off delay time 4	E	ABBIED600:2014
OffDITmms5	ABBIED600_Rev1_ING_SP_e	Off delay time 5	E	ABBIED600:2014
OffDITmms6	ABBIED600_Rev1_ING_SP_e	Off delay time 6	E	ABBIED600:2014
OffDITmms7	ABBIED600_Rev1_ING_SP_e	Off delay time 7	E	ABBIED600:2014

OffDITmms8	ABBIED600_Rev1_ING_SP_e	Off delay time 8	E	ABBIED600:2014
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6.2.12 LN: PTGAPC1 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Ind1	ABBIED600_Rev1_SPS	Input 1		
Ind2	ABBIED600_Rev1_SPS	Input 2		
Ind3	ABBIED600_Rev1_SPS	Input 3		
Ind4	ABBIED600_Rev1_SPS	Input 4		
Ind5	ABBIED600_Rev1_SPS	Input 5		
Ind6	ABBIED600_Rev1_SPS	Input 6		
Ind7	ABBIED600_Rev1_SPS	Input 7		
Ind8	ABBIED600_Rev1_SPS	Input 8		
SPCSO1	ABBIED600_Rev1_SPC_simple	Output 1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple	Output 2		status-only
SPCSO3	ABBIED600_Rev1_SPC_simple	Output 3		status-only
SPCSO4	ABBIED600_Rev1_SPC_simple	Output 4		status-only
SPCSO5	ABBIED600_Rev1_SPC_simple	Output 5		status-only
SPCSO6	ABBIED600_Rev1_SPC_simple	Output 6		status-only
SPCSO7	ABBIED600_Rev1_SPC_simple	Output 7		status-only
SPCSO8	ABBIED600_Rev1_SPC_simple	Output 8		status-only
PlsTmms1	ABBIED600_Rev1_ING_SP_e	Pulse time 1	E	ABBIED600:2014
PlsTmms2	ABBIED600_Rev1_ING_SP_e	Pulse time 2	E	ABBIED600:2014
PlsTmms3	ABBIED600_Rev1_ING_SP_e	Pulse time 3	E	ABBIED600:2014
PlsTmms4	ABBIED600_Rev1_ING_SP_e	Pulse time 4	E	ABBIED600:2014
PlsTmms5	ABBIED600_Rev1_ING_SP_e	Pulse time 5	E	ABBIED600:2014
PlsTmms6	ABBIED600_Rev1_ING_SP_e	Pulse time 6	E	ABBIED600:2014
PlsTmms7	ABBIED600_Rev1_ING_SP_e	Pulse time 7	E	ABBIED600:2014
PlsTmms8	ABBIED600_Rev1_ING_SP_e	Pulse time 8	E	ABBIED600:2014

6.2.13 LN: SCA4GAPC1 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB- BIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
AnIn1	ABBIED600_Rev4_MV_2_e	Analog input 1	E	IEC 61850-7-4:2007
AnIn2	ABBIED600_Rev4_MV_2_e	Analog input 2	E	IEC 61850-7-4:2007

AnIn3	ABBIED600_Rev4_MV_2_e	Analog input 3	E	IEC 61850-7-4:2007
AnIn4	ABBIED600_Rev4_MV_2_e	Analog input 4	E	IEC 61850-7-4:2007
AnValOut1	ABBIED600_Rev4_MV_2_e	Analog value 1 after scaling	E	ABBIED600:2014
AnValOut2	ABBIED600_Rev4_MV_2_e	Analog value 2 after scaling	E	ABBIED600:2014
AnValOut3	ABBIED600_Rev4_MV_2_e	Analog value 3 after scaling	E	ABBIED600:2014
AnValOut4	ABBIED600_Rev4_MV_2_e	Analog value 4 after scaling	E	ABBIED600:2014
ScaleAnIn1	ABBIED600_Rev3_ASG_SP_i_e	Scale ratio for analog input value 1	E	ABBIED600:2014
ScaleAnIn2	ABBIED600_Rev3_ASG_SP_i_e	Scale ratio for analog input value 2	E	ABBIED600:2014
ScaleAnIn3	ABBIED600_Rev3_ASG_SP_i_e	Scale ratio for analog input value 3	E	ABBIED600:2014
ScaleAnIn4	ABBIED600_Rev3_ASG_SP_i_e	Scale ratio for analog input value 4	E	ABBIED600:2014

6.2.14 LN: MVI4GAPC1 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
ISCSO1	ABBIED600_Rev1_INC_simple_int	Integer output value 1		status-only
ISCSO2	ABBIED600_Rev1_INC_simple_int	Integer output value 2		status-only
ISCSO3	ABBIED600_Rev1_INC_simple_int	Integer output value 3		status-only
ISCSO4	ABBIED600_Rev1_INC_simple_int	Integer output value 4		status-only
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
IntIn1	ABBIED600_Rev1_INS_e	Integer input value 1	E	IEC 61850-7-4:2007
IntIn2	ABBIED600_Rev1_INS_e	Integer input value 2	E	IEC 61850-7-4:2007
IntIn3	ABBIED600_Rev1_INS_e	Integer input value 3	E	IEC 61850-7-4:2007
IntIn4	ABBIED600_Rev1_INS_e	Integer input value 4	E	IEC 61850-7-4:2007

6.2.15 LN: LEDPTRC1 Name: PTRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Op	ABBIED600_Rev1_ACT_simple	Operate		
Str	ABBIED600_Rev1_ACD_simple	Start		
InRs	ABBIED600_Rev1_SPS_simple_e	Reset	E	ABBIED600:2014
InOp	ABBIED600_Rev2_SPS_dU_e	Input operate	E	ABBIED600:2014
InStr	ABBIED600_Rev2_SPS_dU_e	Input start	E	ABBIED600:2014

6.2.16 LN: TPGAPC1 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
SPCSO1	ABBIED600_Rev1_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple	Q2		status-only
PlsTmms	ABBIED600_Rev1_ING_SP_1_e	Minimum pulse time	E	ABBIED600:2014

6.2.17 LN: TPSGAPC1 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
SPCSO1	ABBIED600_Rev1_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple	Q2		status-only
PlsTms	ABBIED600_Rev1_ING_SP_1_e	Minimum pulse time	E	ABBIED600:2014

6.2.18 LN: TPMGAPC1 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
SPCSO1	ABBIED600_Rev1_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev1_SPC_simple	Q2		status-only
PlsTmm	ABBIED600_Rev1_ING_SP_1_e	Minimum pulse time	E	ABBIED600:2014

6.2.19 LN: SPCGAPC1 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
Ind3	ABBIED600_Rev1_SPS	IN3		
Ind4	ABBIED600_Rev1_SPS	IN4		
Ind5	ABBIED600_Rev1_SPS	IN5		
Ind6	ABBIED600_Rev1_SPS	IN6		

Ind7	ABBIED600_Rev1_SPS	IN7		
Ind8	ABBIED600_Rev1_SPS	IN8		
Ind9	ABBIED600_Rev1_SPS	IN9		
Ind10	ABBIED600_Rev1_SPS	IN10		
Ind11	ABBIED600_Rev1_SPS	IN11		
Ind12	ABBIED600_Rev1_SPS	IN12		
Ind13	ABBIED600_Rev1_SPS	IN13		
Ind14	ABBIED600_Rev1_SPS	IN14		
Ind15	ABBIED600_Rev1_SPS	IN15		
Ind16	ABBIED600_Rev1_SPS	IN16		
SPCSO1	ABBIED600_Rev6_SPC_pulse	Output 1		status-only,direct-with-normal-security
SPCSO2	ABBIED600_Rev6_SPC_pulse	Output 2		status-only,direct-with-normal-security
SPCSO3	ABBIED600_Rev6_SPC_pulse	Output 3		status-only,direct-with-normal-security
SPCSO4	ABBIED600_Rev6_SPC_pulse	Output 4		status-only,direct-with-normal-security
SPCSO5	ABBIED600_Rev6_SPC_pulse	Output 5		status-only,direct-with-normal-security
SPCSO6	ABBIED600_Rev6_SPC_pulse	Output 6		status-only,direct-with-normal-security
SPCSO7	ABBIED600_Rev6_SPC_pulse	Output 7		status-only,direct-with-normal-security
SPCSO8	ABBIED600_Rev6_SPC_pulse	Output 8		status-only,direct-with-normal-security
SPCSO9	ABBIED600_Rev6_SPC_pulse	Output 9		status-only,direct-with-normal-security
SPCSO10	ABBIED600_Rev6_SPC_pulse	Output 10		status-only,direct-with-normal-security
SPCSO11	ABBIED600_Rev6_SPC_pulse	Output 11		status-only,direct-with-normal-security
SPCSO12	ABBIED600_Rev6_SPC_pulse	Output 12		status-only,direct-with-normal-security
SPCSO13	ABBIED600_Rev6_SPC_pulse	Output 13		status-only,direct-with-normal-security
SPCSO14	ABBIED600_Rev6_SPC_pulse	Output 14		status-only,direct-with-normal-security
SPCSO15	ABBIED600_Rev6_SPC_pulse	Output 15		status-only,direct-with-normal-security
SPCSO16	ABBIED600_Rev6_SPC_pulse	Output 16		status-only,direct-with-normal-security
LocRemRst	ABBIED600_Rev1_SPG_SP_e	Loc Rem restriction	E	ABBIED600:2014

6.2.20 LN: IL1TCTR1 Name: TCTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Mode		
AmpSv	ABBIED600_Rev1_SAV_92_lite	Current (Sampled value) phase A		
ARtg	AB-BIED600_Rev4_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	IEC 61850-7-4:2007
Wrn	ABBIED600_Rev1_SPS_e	Warning	E	IEC 61850-7-4:2007
ARtgScy	ABBIED600_Rev2_ENG_SP_ARtg-gSec_e	Secondary rated current	E	AB-BIED600:2014
ARtgNom	ABBIED600_Rev1_ASG_SP_f_e	Network Nominal Current	E	AB-BIED600:2014
VRtgScy-Rat	ABBIED600_Rev1_ASG_SP_f_e	Rated Secondary Value	E	AB-BIED600:2014
RevPol	ABBIED600_Rev1_SPG_SP_e	Reverse polarity	E	AB-BIED600:2014

6.2.21 LN: RESTCTR1 Name: TCTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Mode		
AmpSv	ABBIED600_Rev1_SAV_92_lite	Current (Sampled value)		
ARtg	AB-BIED600_Rev4_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	IEC 61850-7-4:2007
Wrn	ABBIED600_Rev1_SPS_e	Warning	E	IEC 61850-7-4:2007
ARtgScy	ABBIED600_Rev2_ENG_SP_ARtg-gSec_e	Secondary rated current	E	AB-BIED600:2014

RevPol	ABBIED600_Rev1_SPG_SP_e	Reverse polarity	E	AB- BIED600:2014
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6.2.22 LN: XGGIO120 Name: GGIO (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_OnOff_No-Blk	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Ind1	ABBIED600_Rev1_SPS	X120-Input 1		
Ind2	ABBIED600_Rev1_SPS	X120-Input 2		
Ind3	ABBIED600_Rev1_SPS	X120-Input 3		
Ind4	ABBIED600_Rev1_SPS	X120-Input 4		
FilTmms1	ABBIED600_Rev1_ING_SP_1_e	Input 1 filter time	E	ABBIED600:2014
FilTmms2	ABBIED600_Rev1_ING_SP_1_e	Input 2 filter time	E	ABBIED600:2014
FilTmms3	ABBIED600_Rev1_ING_SP_1_e	Input 3 filter time	E	ABBIED600:2014
FilTmms4	ABBIED600_Rev1_ING_SP_1_e	Input 4 filter time	E	ABBIED600:2014
DigInInv1	ABBIED600_Rev1_SPG_SP_e	Input 1 inversion	E	ABBIED600:2014
DigInInv2	ABBIED600_Rev1_SPG_SP_e	Input 2 inversion	E	ABBIED600:2014
DigInInv3	ABBIED600_Rev1_SPG_SP_e	Input 3 inversion	E	ABBIED600:2014
DigInInv4	ABBIED600_Rev1_SPG_SP_e	Input 4 inversion	E	ABBIED600:2014
CardNam	AB- BIED600_Rev8_DPL_eeeprom_2_ED2_e	Card information	E	ABBIED600:2014
Hwld	ABBIED600_Rev1_LPL_VSS_1_20_e	HW module	E	ABBIED600:2014
TestStald	ABBIED600_Rev1_LPL_VSS_dU_20_e	Testing	E	ABBIED600:2014

6.2.23 LN: UL1TVTR1 Name: TVTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Mode		
VolSv	ABBIED600_Rev1_SAV_92_lite	Voltage (sampled value) phase A		
FuFail	ABBIED600_Rev1_SPS	TVTR fuse failure		
VRtg	ABBIED600_Rev4_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	IEC 61850-7-4:2007
Wrn	ABBIED600_Rev1_SPS_e	Warning	E	IEC 61850-7-4:2007
VRtgScy	ABBIED600_Rev1_ASG_SP_f_e	Secondary rated voltage	E	ABBIED600:2014
VConnTyp	AB-BIED600_Rev3_ENG_SP_ConnType_e	VT connection	E	ABBIED600:2014
VInTyp	ABBIED600_Rev2_ENG_SP_AnIn-Type_e	Type of the voltage input	E	ABBIED600:2014

6.2.24 LN: RESTVTR1 Name: TVTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Mode		
VolSv	ABBIED600_Rev1_SAV_92_lite	Voltage (sampled value)		
VRtg	AB-BIED600_Rev4_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	IEC 61850-7-4:2007
Wrn	ABBIED600_Rev1_SPS_e	Warning	E	IEC 61850-7-4:2007
VRtgScy	ABBIED600_Rev1_ASG_SP_f_e	Rated secondary voltage	E	AB-BIED600:2014

6.2.25 LN: UL1TVTR2 Name: TVTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Mode		
VolSv	ABBIED600_Rev1_SAV_92_lite	Voltage (sampled value) phase A		
FuFail	ABBIED600_Rev1_SPS	TVTR fuse failure		
VRtg	AB-BIED600_Rev4_ASG_SP_ARtg_VRtg	Primary rated voltage		
Rat	ABBIED600_Rev1_ASG_SP_f	Division ratio		
Cor	ABBIED600_Rev1_ASG_SP_f	Phase A Voltage phasor magnitude correction of an external voltage transformer		
AngCor	ABBIED600_Rev3_ASG_SP_i	Angle corr. A		
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	IEC 61850-7-4:2007

Wrn	ABBIED600_Rev1_SPS_e	Warning	E	IEC 61850-7-4:2007
VRtgScy	ABBIED600_Rev1_ASG_SP_f_e	Secondary rated voltage	E	AB-BIED600:2014
VConnTyp	AB-BIED600_Rev3_ENG_SP_ConnType_e	VT connection	E	AB-BIED600:2014
VInTyp	ABBIED600_Rev2_ENG_SP_AnIn-Type_e	Type of the voltage input	E	AB-BIED600:2014

6.2.26 LN: XAGGIO130 Name: GGIO (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_OnOff_No-Blk	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Ind1	ABBIED600_Rev1_SPS	X130-Input 1		
Ind2	ABBIED600_Rev1_SPS	X130-Input 2		
Ind3	ABBIED600_Rev1_SPS	X130-Input 3		
Ind4	ABBIED600_Rev1_SPS	X130-Input 4		
FilTmms1	ABBIED600_Rev1_ING_SP_1_e	Input 1 filter time	E	ABBIED600:2014
FilTmms2	ABBIED600_Rev1_ING_SP_1_e	Input 2 filter time	E	ABBIED600:2014
FilTmms3	ABBIED600_Rev1_ING_SP_1_e	Input 3 filter time	E	ABBIED600:2014
FilTmms4	ABBIED600_Rev1_ING_SP_1_e	Input 4 filter time	E	ABBIED600:2014
DigInInv1	ABBIED600_Rev1_SPG_SP_e	Input 1 inversion	E	ABBIED600:2014
DigInInv2	ABBIED600_Rev1_SPG_SP_e	Input 2 inversion	E	ABBIED600:2014
DigInInv3	ABBIED600_Rev1_SPG_SP_e	Input 3 inversion	E	ABBIED600:2014
DigInInv4	ABBIED600_Rev1_SPG_SP_e	Input 4 inversion	E	ABBIED600:2014
CardNam	AB-BIED600_Rev8_DPL_eeeprom_2_ED2_e	Card information	E	ABBIED600:2014
HwId	ABBIED600_Rev1_LPL_VSS_1_20_e	HW module	E	ABBIED600:2014
TestStald	ABBIED600_Rev1_LPL_VSS_dU_20_e	Testing	E	ABBIED600:2014

6.2.27 LN: XARGGIO130 Name: GGIO (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
AnIn1	ABBIED600_Rev7_MV_6	Analogue input 1		

AnIn2	ABBIED600_Rev7_MV_6	Analogue input 2		
AnIn3	ABBIED600_Rev7_MV_6	Analogue input 3		
Alm1	ABBIED600_Rev1_SPS	Alarm		
Wrn1	ABBIED600_Rev1_SPS	Warning		
InMinVal1	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	ABBIED600:2014
InMinVal2	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	ABBIED600:2014
InMinVal3	ABBIED600_Rev1_ASG_SP_f_e	Input minimum	E	ABBIED600:2014
InMaxVal1	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	ABBIED600:2014
InMaxVal2	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	ABBIED600:2014
InMaxVal3	ABBIED600_Rev1_ASG_SP_f_e	Input maximum	E	ABBIED600:2014
InMod1	AB-BIED600_Rev2_ENG_SP_SenInMod_e	Input mode	E	ABBIED600:2014
InMod2	AB-BIED600_Rev2_ENG_SP_SenInMod_e	Input mode	E	ABBIED600:2014
InMod3	AB-BIED600_Rev2_ENG_SP_SenInMod_e	Input mode	E	ABBIED600:2014
CardNam	AB-BIED600_Rev8_DPL_eeeprom_2_ED2_e	Card information	E	ABBIED600:2014
HwId	ABBIED600_Rev1_LPL_VSS_1_20_e	HW module	E	ABBIED600:2014
TestStald	ABBIED600_Rev1_LPL_VSS_dU_20_e	Testing	E	ABBIED600:2014

6.2.28 LN: VMMXU1 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
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		
VMeas-Mod	ABBIED600_Rev3_ENG_SP_Meas-Mod_e	Selects used measurement mode	E	ABBIED600:2014
NumPh	AB-BIED600_Rev3_ENG_SP_StrPhSel_e	Num of phases	E	ABBIED600:2014
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	ABBIED600:2014
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	ABBIED600:2014
LoWrn	ABBIED600_Rev1_SPS_e	Low warning	E	ABBIED600:2014

LoAlm	ABBIED600_Rev1_SPS_e	Low alarm	E	ABBIED600:2014
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6.2.29 LN: RESVMMXU1 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_Of-fOn_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
PhV	ABBIED600_Rev3_WYE_res_full_i	Residual voltage		
VMeas-Mod	ABBIED600_Rev3_ENG_SP_Meas-Mod_e	Selects used measurement mode	E	ABBIED600:2014
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	ABBIED600:2014
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	ABBIED600:2014
RcdRs	ABBIED600_Rev2_SPC_control_e	RESVMMXU1 demands	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.30 LN: XGGIO110 Name: GGIO (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_OnOff_No-Blk	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
SPCSO1	ABBIED600_Rev2_SPC_control	X110-Output 1		status-only,direct-with-normal-security
SPCSO2	ABBIED600_Rev2_SPC_control	X110-Output 2		status-only,direct-with-normal-security
SPCSO3	ABBIED600_Rev2_SPC_control	X110-Output 3		status-only,direct-with-normal-security
SPCSO4	ABBIED600_Rev2_SPC_control	X110-Output 4		status-only,direct-with-normal-security
Ind1	ABBIED600_Rev1_SPS	X110-Input 1		
Ind2	ABBIED600_Rev1_SPS	X110-Input 2		
Ind3	ABBIED600_Rev1_SPS	X110-Input 3		
Ind4	ABBIED600_Rev1_SPS	X110-Input 4		
Ind5	ABBIED600_Rev1_SPS	X110-Input 5		
Ind6	ABBIED600_Rev1_SPS	X110-Input 6		
Ind7	ABBIED600_Rev1_SPS	X110-Input 7		
Ind8	ABBIED600_Rev1_SPS	X110-Input 8		
FilTmms1	ABBIED600_Rev1_ING_SP_1_e	Input 1 filter time	E	ABBIED600:2014
FilTmms2	ABBIED600_Rev1_ING_SP_1_e	Input 2 filter time	E	ABBIED600:2014
FilTmms3	ABBIED600_Rev1_ING_SP_1_e	Input 3 filter time	E	ABBIED600:2014

FilTmms4	ABBIED600_Rev1_ING_SP_1_e	Input 4 filter time	E	ABBIED600:2014
FilTmms5	ABBIED600_Rev1_ING_SP_1_e	Input 5 filter time	E	ABBIED600:2014
FilTmms6	ABBIED600_Rev1_ING_SP_1_e	Input 6 filter time	E	ABBIED600:2014
FilTmms7	ABBIED600_Rev1_ING_SP_1_e	Input 7 filter time	E	ABBIED600:2014
FilTmms8	ABBIED600_Rev1_ING_SP_1_e	Input 8 filter time	E	ABBIED600:2014
DigInInv1	ABBIED600_Rev1_SPG_SP_e	Input 1 inversion	E	ABBIED600:2014
DigInInv2	ABBIED600_Rev1_SPG_SP_e	Input 2 inversion	E	ABBIED600:2014
DigInInv3	ABBIED600_Rev1_SPG_SP_e	Input 3 inversion	E	ABBIED600:2014
DigInInv4	ABBIED600_Rev1_SPG_SP_e	Input 4 inversion	E	ABBIED600:2014
DigInInv5	ABBIED600_Rev1_SPG_SP_e	Input 5 inversion	E	ABBIED600:2014
DigInInv6	ABBIED600_Rev1_SPG_SP_e	Input 6 inversion	E	ABBIED600:2014
DigInInv7	ABBIED600_Rev1_SPG_SP_e	Input 7 inversion	E	ABBIED600:2014
DigInInv8	ABBIED600_Rev1_SPG_SP_e	Input 8 inversion	E	ABBIED600:2014
CardNam	ABBIED600_Rev8_DPL_eeeprom_2_ED2_e	Card information	E	ABBIED600:2014
Hwld	ABBIED600_Rev1_LPL_VSS_1_20_e	HW module	E	ABBIED600:2014
TestStald	ABBIED600_Rev1_LPL_VSS_dU_20_e	Testing	E	ABBIED600:2014

6.2.31 LN: PHLPTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG	Operating curve type		
StrVal	ABBIED600_Rev4_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev4_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		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	ABBIED600:2014
NumPh	AB-BIED600_Rev3_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	ABBIED600:2014
StrValMult	ABBIED600_Rev4_ASG_SG_i_e	Multiplier for scaling the start value	E	ABBIED600:2014
StrDur	ABBIED600_Rev4_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
AMeasMod	ABBIED600_Rev3_ENG_SP_Meas-Mod_e	Measuring mode	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.32 LN: PHHPTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG	Operating Curve Type		
StrVal	ABBIED600_Rev4_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev4_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	ABBIED600:2014
NumPh	AB-BIED600_Rev3_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	ABBIED600:2014
StrValMult	ABBIED600_Rev4_ASG_SG_i_e	Multiplier for scaling the start value	E	ABBIED600:2014

StrDur	ABBIED600_Rev4_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
AMeasMod	ABBIED600_Rev3_ENG_SP_Meas-Mod_e	Measuring mode	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.33 LN: PHIPTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
StrVal	ABBIED600_Rev4_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	ABBIED600:2014
NumPh	ABBIED600_Rev3_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	ABBIED600:2014
StrValMult	ABBIED600_Rev4_ASG_SG_i_e	Multiplier for scaling the start value	E	ABBIED600:2014
StrDur	ABBIED600_Rev4_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.34 LN: EFLPTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG	Operating Curve Type		

StrVal	ABBIED600_Rev4_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev4_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	ABBIED600:2014
StrValMult	ABBIED600_Rev4_ASG_SG_i_e	Multiplier for operate current level	E	ABBIED600:2014
StrDur	ABBIED600_Rev4_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
InEnaMult	ABBIED600_Rev1_SPS_e	Enable current multiplier	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
AResSigSel	ABBIED600_Rev2_ENG_SP_AResSigSel_e	Selection for used Io signal	E	ABBIED600:2014

6.2.35 LN: EFHPTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG	Operating Curve Type		
StrVal	ABBIED600_Rev4_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev4_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	ABBIED600:2014
StrValMult	ABBIED600_Rev4_ASG_SG_i_e	Multiplier for operate current level	E	ABBIED600:2014
StrDur	ABBIED600_Rev4_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
InEnaMult	ABBIED600_Rev1_SPS_e	Enable current multiplier	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
AResSigSel	ABBIED600_Rev2_ENG_SP_AResSigSel_e	Selection for used lo signal	E	ABBIED600:2014

6.2.36 LN: EFIPTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev4_ASG_SG_i	Start value		
OpDITmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDITmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
StrValMult	ABBIED600_Rev4_ASG_SG_i_e	Multiplier for operate current level	E	ABBIED600:2014
StrDur	ABBIED600_Rev4_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
InEnaMult	ABBIED600_Rev1_SPS_e	Enable current multiplier	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
AResSigSel	ABBIED600_Rev2_ENG_SP_AResSigSel_e	Selection for used lo signal	E	ABBIED600:2014

6.2.37 LN: NSPTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_Of-fOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG	Operating Curve Type		
StrVal	ABBIED600_Rev4_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev4_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		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	ABBIED600:2014
StrValMult	ABBIED600_Rev4_ASG_SG_i_e	Multiplier for scaling the start value	E	ABBIED600:2014
StrDur	ABBIED600_Rev4_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.38 LN: ROVPTOV1 Name: PTOV (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev4_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		
StrDur	ABBIED600_Rev4_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
VResSigSel	AB-BIED600_Rev2_ENG_SP_VResSigSel_e	Selection for used Uo signal	E	ABBIED600:2014

6.2.39 LN: PHPTUV1 Name: PTUV (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_Of-fOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmVCrv	ABBIED600_Rev2_CURVE_SG	Operating Curve Type		
StrVal	ABBIED600_Rev4_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev4_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		
RsDITmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
TypRsCrv	AB-BIED600_Rev3_ENG_SG_TypRsCrv_e	Type of Reset Curve	E	IEC 61850-7-4:2007
BlkVal	ABBIED600_Rev3_ASG_SP_i_e	Voltage block value	E	IEC 61850-7-4:2007
NumPh	AB-BIED600_Rev3_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	ABBIED600:2014
StrDur	ABBIED600_Rev4_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev4_ENC_TestPro_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
CrvSatRI	ABBIED600_Rev1_ASG_SP_f_e	Tuning parameter to avoid curve discontinuities	E	ABBIED600:2014

VSel	ABBIED600_Rev3_ENG_SP_VSel_e	Parameter to select phase or phase-to-phase voltages	E	ABBIED600:2014
EnaBlkVal	ABBIED600_Rev1_SPG_SP_e	Enable block value	E	ABBIED600:2014
HysRI	ABBIED600_Rev3_ASG_SP_i_e	Relative hysteresis for operation	E	ABBIED600:2014
TypTmRs	ABBIED600_Rev2_ENG_SG_TypTmRs_e	Type of time reset	E	ABBIED600:2014

6.2.40 LN: PHPTOV1 Name: PTOV (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmVCrv	ABBIED600_Rev2_CURVE_SG	Operating Curve Type		
StrVal	ABBIED600_Rev4_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev4_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		
RsDITmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv_e	Type of Reset Curve	E	IEC 61850-7-4:2007
NumPh	ABBIED600_Rev3_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	ABBIED600:2014
StrDur	ABBIED600_Rev4_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev4_ENC_TestPro_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
CrvSatRI	ABBIED600_Rev1_ASG_SP_f_e	Tuning parameter to avoid curve discontinuities	E	ABBIED600:2014
VSel	ABBIED600_Rev3_ENG_SP_VSel_e	Parameter to select phase or phase-to-phase voltages	E	ABBIED600:2014
HysRI	ABBIED600_Rev3_ASG_SP_i_e	Relative hysteresis for operation	E	ABBIED600:2014

TypTmRs	AB- BIED600_Rev2_ENG_SG_TypTmRs_e	Type of time reset	E	ABBIED600:2014
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6.2.41 LN: PSPTUV1 Name: PTUV (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev4_ASG_SG_i	Start value		
OpDITmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDITmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
BlkVal	ABBIED600_Rev4_ASG_SG_i_e	Voltage block value	E	IEC 61850-7-4:2007
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
StrDur	ABBIED600_Rev4_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
EnaBlkVal	ABBIED600_Rev1_SPG_SG_e	Enable block value	E	ABBIED600:2014
HysRI	ABBIED600_Rev3_ASG_SP_i_e	Relative hysteresis for operation	E	ABBIED600:2014

6.2.42 LN: NSPTOV1 Name: PTOV (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev4_ASG_SG_i	Start value		
OpDITmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDITmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		

StrDur	ABBIED600_Rev4_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.43 LN: FRPTRC1 Name: PTRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Op	ABBIED600_Rev1_ACT_simple	Operate		
Str	ABBIED600_Rev1_ACD_simple	Start		
TestPro	ABBIED600_Rev4_ENC_TestPro_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev4_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
OpMod-ProHz	ABBIED600_Rev2_ENG_SG_OpMod-ProHz_e	Operation mode	E	ABBIED600:2014

6.2.44 LN: FRPTOF1 Name: PTOF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start, overfrequency		
Op	ABBIED600_Rev1_ACT_simple	Operate, overfrequency		
StrVal	ABBIED600_Rev4_ASG_SG_i	Start value		
OpDITmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDITmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev4_MV_2_e	Ratio of start time / operate time, overfrequency	E	ABBIED600:2014

6.2.45 LN: FRPTUF1 Name: PTUF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start, underfrequency		
Op	ABBIED600_Rev1_ACT_simple	Operate, underfrequency		
StrVal	ABBIED600_Rev4_ASG_SG_i	Start value		

OpDITmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDITmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev4_MV_2_e	Ratio of start time / operate time, underfrequency	E	AB-BIED600:2014

6.2.46 LN: FRPFC1 Name: PFRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start, frequency gradient		
Op	ABBIED600_Rev1_ACT_simple	Operate, frequency gradient		
StrVal	ABBIED600_Rev4_ASG_SG_i	Start value df/dt		
OpDITmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDITmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev4_MV_2_e	Ratio of start time / operate time, frequency gradient	E	AB-BIED600:2014

6.2.47 LN: CCBRBRF1 Name: RBRF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Delayed CB failure alarm		
OpEx	ABBIED600_Rev1_ACT_simple	Breaker failure trip (external trip)		
OpIn	ABBIED600_Rev1_ACT_simple	Operate, retrip (internal trip)		
FailMod	ABBIED600_Rev2_ENG_SP_FailMod	Breaker Failure Detection Mode (current, breaker status, both, other)		
FailTmms	ABBIED600_Rev1_ING_SP	Breaker Failure Time Delay for bus bar trip		
TPTrTmms	ABBIED600_Rev1_ING_SP_e	Three Pole Retrip Time Delay	E	IEC 61850-7-4:2007
DetValA	ABBIED600_Rev3_ASG_SP_i	Current Detector Value		
ReTrMod	ABBIED600_Rev2_ENG_SP_ReTrMod	Retrip Mode		
TrPlsTmms	ABBIED600_Rev1_ING_SP_e	Trip pulse time	E	IEC 61850-7-4:2007
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		

Det-ValARes	ABBIED600_Rev3_ASG_SP_i_e	Current Detector Value for residual current	E	ABBIED600:2014
AMeasMod	ABBIED600_Rev3_ENG_SP_Meas-Mod_e	Measurement mode selection (current): 2= DFT; 3= Peak-to-Peak	E	ABBIED600:2014
CBAIm-Tmms	ABBIED600_Rev1_ING_SP_e	Circuit breaker faulty alarm delay	E	ABBIED600:2014
OpExMod	ABBIED600_Rev2_ENG_SP_buTrip-Mode_e	Select type of backup trip logic	E	ABBIED600:2014
InStr	ABBIED600_Rev1_SPS_e	CBFP start command	E	ABBIED600:2014
InPosCls	ABBIED600_Rev1_SPS_e	CB in closed position	E	ABBIED600:2014
InCBFlt	ABBIED600_Rev1_SPS_e	CB faulty and unable to trip	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
StrLtcMod	ABBIED600_Rev2_ENG_SP_StrLtcMod_e	Start reset delayed or immediately	E	ABBIED600:2014

6.2.48 LN: INRPHAR1 Name: PHAR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_Of-fOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_threephase	Start		
PhStr	ABBIED600_Rev4_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	ABBIED600:2014,status-only,direct-with-normal-security

6.2.49 LN: TRPPTRC1 Name: PTRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_Of-fOn_FD	BLOCK		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		

Tr	ABBIED600_Rev1_ACT_simple_dU	General trip output signal		
Op	ABBIED600_Rev1_ACT_simple_dU	Operate input signal		
TrPlsTmms	ABBIED600_Rev1_ING_SP_1	Minimum duration of trip output signal		
TrOutMod	AB-BIED600_Rev2_ENG_SP_TrOut-Mod_e	Trip output mode	E	ABBIED600:2014
LORs	ABBIED600_Rev2_SPC_indications_e	RST_LKOUT	E	ABBIED600:2014,status-only,direct-with-normal-security
TrRs	ABBIED600_Rev2_SPC_indications_e	Reset latched trip	E	ABBIED600:2014,status-only,direct-with-normal-security
ClsLO	ABBIED600_Rev1_SPS_e	Circuit breaker lock-out output (set until reset)	E	ABBIED600:2014

6.2.50 LN: MAPGAPC1 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev4_ASG_SG_i	Start value		
OpDITmms	ABBIED600_Rev1_ING_SG_e	Operate delay time	E	IEC 61850-7-4:2007
RsDITmms	ABBIED600_Rev1_ING_SP_e	Reset delay time	E	IEC 61850-7-4:2007
AnIn	ABBIED600_Rev4_MV_2_e	Analogue input	E	IEC 61850-7-4:2007
OpModCom	ABBIED600_Rev2_ENG_SP_Op-ModComp_e	Operation mode	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev4_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
HysAbs	ABBIED600_Rev3_ASG_SP_i_e	Absolute hysteresis for operation	E	ABBIED600:2014
StrValAdd	ABBIED600_Rev4_ASG_SG_i_e	Start value Add	E	ABBIED600:2014
InEnaAdd	ABBIED600_Rev1_SPS_e	Enable start with added start value	E	ABBIED600:2014

6.2.51 LN: SSCBR1 Name: SCBR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mod		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		
OpCntAlm	ABBIED600_Rev1_SPS	Number of CB operations exceeds alarm limit		
OpTmOpn	ABBIED600_Rev4_MV_simple_i	Travel time of the CB during opening operation		
OpTmCls	ABBIED600_Rev4_MV_simple_i	Travel time of the CB during closing operation		
OpTmAlm	ABBIED600_Rev1_SPS_simple	Switch operating time exceeded		
OpAlmNum	ABBIED600_Rev1_ING_SP_1	Setting of alarm for number of CB operations.		
OpCntRs	ABBIED600_Rev1_INC_simple_int	Number of CB operation cycle		status-only
InPosOpn	ABBIED600_Rev1_SPS_e	POSOPEN	E	ABBIED600:2014
InPosCls	ABBIED600_Rev1_SPS_e	POSCLOSE	E	ABBIED600:2014
ColCls	ABBIED600_Rev1_SPS_simple_e	Close command status	E	ABBIED600:2014
PosOpn	ABBIED600_Rev1_SPS_e	CB position is open	E	ABBIED600:2014
PosIvd	ABBIED600_Rev1_SPS_e	INVALIDPOS	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_e	CB position is closed	E	ABBIED600:2014
OpnAlm	ABBIED600_Rev1_SPS_e	CB open travel time exceeded set value	E	ABBIED600:2014
ClsAlm	ABBIED600_Rev1_SPS_e	CB close travel time exceeded set value	E	ABBIED600:2014
OpCntLO	ABBIED600_Rev1_SPS_e	Number of CB operations exceeds lockout limit	E	ABBIED600:2014
LonTmAlm	ABBIED600_Rev1_SPS_e	CB 'not operated for long time' alarm	E	ABBIED600:2014
APwrAlm	ABBIED600_Rev1_SPS_e	Accumulated currents power (Iyt),exceeded alarm limit	E	ABBIED600:2014

APwrLO	ABBIED600_Rev1_SPS_e	Accumulated currents power (I _{yt}), exceeded lockout limit	E	ABBIED600:2014
RmnNumOpAlm	ABBIED600_Rev1_SPS_e	Remaining life of CB exceeded alarm limit	E	ABBIED600:2014
OpnAlmTmms	ABBIED600_Rev1_ING_SP_1_e	Setting of alarm level for open travel time in ms	E	ABBIED600:2014
CorOpnTmms	ABBIED600_Rev1_ING_SP_1_e	Correction factor for open travel time in ms	E	ABBIED600:2014
ClsAlmTmms	ABBIED600_Rev1_ING_SP_1_e	Setting of alarm level for close travel time in ms	E	ABBIED600:2014
CorClsTmms	ABBIED600_Rev1_ING_SP_1_e	Correction factor for CB close travel time in ms	E	ABBIED600:2014
CorDifTmms	ABBIED600_Rev1_ING_SP_1_e	Corr. factor for time dif in aux. and main contacts open time	E	ABBIED600:2014
OpLONum	ABBIED600_Rev1_ING_SP_1_e	Setting to block operation when number of operation is more.	E	ABBIED600:2014
OpNumRtg	ABBIED600_Rev1_ING_SP_1_e	Number of operations possible at rated current	E	ABBIED600:2014
NumOpAlmLev	ABBIED600_Rev1_ING_SP_1_e	Alarm level for CB remaining life	E	ABBIED600:2014
OpNumFlt	ABBIED600_Rev1_ING_SP_1_e	Number of operations possible at rated fault current	E	ABBIED600:2014
CntIniVal	ABBIED600_Rev1_ING_SP_1_e	The operation numbers counter initialization value	E	ABBIED600:2014
InaAlmTmd	ABBIED600_Rev1_ING_SP_1_e	Alarm limit value of the inactive days counter	E	ABBIED600:2014
InilnaTmd	ABBIED600_Rev1_ING_SP_1_e	Initial value of the inactive days counter	E	ABBIED600:2014
InaAlmTmh	ABBIED600_Rev1_ING_SP_1_e	Alarm time of the inactive days counter in hours	E	ABBIED600:2014
InaTmdCnt	ABBIED600_Rev1_INS_e	The number of days CB has been inactive	E	ABBIED600:2014

RsAccmAPwr	ABBIED600_Rev2_SPC_control_e	Reset accumulation energy	E	ABBIED600:2014,status-only,direct-with-normal-security
RsCBWear	ABBIED600_Rev2_SPC_control_e	Reset input for CB remaining life and operation counter	E	ABBIED600:2014,status-only,direct-with-normal-security
RsTrvTm	ABBIED600_Rev2_SPC_control_e	SSCBR1 travel t	E	ABBIED600:2014,status-only,direct-with-normal-security
TestSpvn	ABBIED600_Rev3_ENC_TestSpvn_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
TrvClcMod	ABBIED600_Rev2_ENG_SP_TrvClcMod_e	Travel time calculation mode	E	ABBIED600:2014
DirCff	ABBIED600_Rev1_ASG_SP_f_e	Directional coefficient for CB life calculation	E	ABBIED600:2014
IniRmnNumOp	ABBIED600_Rev1_ASG_SP_f_e	Initial value for the CB remaining life estimates	E	ABBIED600:2014
AlmAccmAPwr	ABBIED600_Rev3_ASG_SP_i_e	Setting of alarm level for accumulated currents power, lyt	E	ABBIED600:2014
AccmStopA	ABBIED600_Rev3_ASG_SP_i_e	Setting of the RMS current below which engy acm stops	E	ABBIED600:2014
LOAccmAPwr	ABBIED600_Rev3_ASG_SP_i_e	Setting of lockout level for accumulated currents power, lyt	E	ABBIED600:2014
AExpn	ABBIED600_Rev1_ASG_SP_f_e	Current exponent setting for energy calculation	E	ABBIED600:2014
AOPrtg	ABBIED600_Rev3_ASG_SP_i_e	Rated operating current of the breaker	E	ABBIED600:2014
AFItRtg	ABBIED600_Rev3_ASG_SP_i_e	Rated fault current of the breaker	E	ABBIED600:2014
IniAccmAPwr	ABBIED600_Rev3_ASG_SP_i_e	Initial value for accumulation energy (lyt)	E	ABBIED600:2014

6.2.52 LN: SPH1SCBR1 Name: SCBR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		

RmnNumOp	ABBIED600_Rev1_INS_d_e	CB Remaining life phase A	E	AB-BIED600:2014
AccmAPwr	ABBIED600_Rev4_MV_simple_i_e	Accumulated currents power (Iyt), phase A	E	AB-BIED600:2014

6.2.53 LN: SPH2SCBR1 Name: SCBR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		
RmnNumOp	ABBIED600_Rev1_INS_d_e	CB Remaining life phase B	E	AB-BIED600:2014
AccmAPwr	ABBIED600_Rev4_MV_simple_i_e	Accumulated currents power (Iyt), phase B	E	AB-BIED600:2014

6.2.54 LN: SPH3SCBR1 Name: SCBR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		
RmnNumOp	ABBIED600_Rev1_INS_d_e	CB Remaining life phase C	E	AB-BIED600:2014
AccmAPwr	ABBIED600_Rev4_MV_simple_i_e	Accumulated currents power (Iyt), phase C	E	AB-BIED600:2014

6.2.55 LN: SSIMG1 Name: SIMG (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
InsAlm	ABBIED600_Rev1_SPS	Pressure below alarm level		
InsBlk	ABBIED600_Rev1_SPS	Pressure below lockout level		
PresAlm	ABBIED600_Rev1_SPS	Binary pressure input for alarm		
PresBlk	ABBIED600_Rev1_SPS_e	Binary pressure input for lockout indication	E	AB-BIED600:2014
InsAlmTmms	ABBIED600_Rev1_ING_SP_1_e	Time delay for gas pressure alarm.	E	AB-BIED600:2014
InsBlkTmms	ABBIED600_Rev1_ING_SP_e	Time delay for gas pressure lock-out.	E	AB-BIED600:2014

6.2.56 LN: SSOPM1 Name: SOPM (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
SprChaAlm	ABBIED600_Rev1_SPS_e	Spring charging time has crossed the set value	E	ABBIED600:2014
SprChaStr	ABBIED600_Rev1_SPS_e	CB spring charging started input	E	ABBIED600:2014
SprChaStop	ABBIED600_Rev1_SPS_e	CB spring charged input	E	ABBIED600:2014
SprChaTmms	ABBIED600_Rev1_ING_SP_e	Setting of alarm for spring charging time of CB in ms.	E	ABBIED600:2014
TmsSprCha	ABBIED600_Rev4_MV_simple_i_e	The charging time of the CB spring	E	ABBIED600:2014
RsSprChaTm	ABBIED600_Rev2_SPC_control_e	SSCBR1 spr.charge t	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.57 LN: CMMXU1 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
A	AB-BIED600_Rev3_WYE_threephase_full_i	Phase currents		
AMeas-Mod	ABBIED600_Rev3_ENG_SP_Meas-Mod_e	Selects used measurement mode	E	ABBIED600:2014
NumPh	AB-BIED600_Rev3_ENG_SP_StrPhSel_e	Number of phases required by limit supervision	E	ABBIED600:2014
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	ABBIED600:2014
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	ABBIED600:2014
LoWrn	ABBIED600_Rev1_SPS_e	Low warning	E	ABBIED600:2014
LoAlm	ABBIED600_Rev1_SPS_e	Low alarm	E	ABBIED600:2014
RcdRs	ABBIED600_Rev2_SPC_control_e	CMMXU1 demands	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.58 LN: RESCMMXU1 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_Of-fOn_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
A	ABBIED600_Rev3_WYE_res_full_i	Residual current		
AMeas-Mod	ABBIED600_Rev3_ENG_SP_Meas-Mod_e	Selects used measurement mode	E	ABBIED600:2014
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	ABBIED600:2014
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	ABBIED600:2014
RcdRs	ABBIED600_Rev2_SPC_control_e	RESCMMXU1 demands	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.59 LN: PEMMXU1 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_Of-fOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
TotW	ABBIED600_Rev5_MV_3	Total Active Power (Total P)		
TotVAr	ABBIED600_Rev5_MV_3	Total Reactive Power (Total Q)		
TotVA	ABBIED600_Rev5_MV_3	Total Apparent Power (Total S)		
TotPF	ABBIED600_Rev5_MV_4	Average Power factor (Total PF)		
WhDir	ABBIED600_Rev2_ENG_SP_Dir-Mod2_e	Active power Dir	E	ABBIED600:2014
VARhDir	ABBIED600_Rev2_ENG_SP_Dir-Mod2_e	Reactive power Dir	E	ABBIED600:2014
RcdRs	ABBIED600_Rev2_SPC_control_e	PEMMXU1 demands	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.60 LN: PEMMTR1 Name: MMTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
SupWh	ABBIED600_Rev5_BCR_2	EA_RV_ACM		
SupVARh	ABBIED600_Rev5_BCR_2	ER_RV_ACM		
DmdWh	ABBIED600_Rev5_BCR_2	EA_FWD_ACM		
DmdVARh	ABBIED600_Rev5_BCR_2	ER_FWD_ACM		

IniDmdWh	AB-BIED600_Rev1_ING_SP_1_e	Preset Initial value for forward active energy	E	ABBIED600:2014
IniSupWh	AB-BIED600_Rev1_ING_SP_1_e	Preset Initial value for reverse active energy	E	ABBIED600:2014
IniDmdVArh	AB-BIED600_Rev1_ING_SP_1_e	Preset Initial value for forward reactive energy	E	ABBIED600:2014
IniSupVArh	AB-BIED600_Rev1_ING_SP_1_e	Preset Initial value for reverse reactive energy	E	ABBIED600:2014
SupDmdRs	ABBIED600_Rev2_SPC_control_e	Reset of accumulated energy readings	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.61 LN: FMMXU1 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Hz	ABBIED600_Rev5_MV_5	Frequency		
DefHzSel	AB-BIED600_Rev1_ENG_SP_DefHzSel_e	Default frequency selection	E	ABBIED600:2014

6.2.62 LN: DPHLPTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG	Operating Curve Type		
StrVal	ABBIED600_Rev4_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev4_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		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod	Directional Mode		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	ABBIED600:2014

NumPh	AB-BIED600_Rev3_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	ABBIED600:2014
StrValMult	ABBIED600_Rev4_ASG_SG_i_e	Multiplier for scaling the start value	E	ABBIED600:2014
StrDur	ABBIED600_Rev4_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
AMeas-Mod	ABBIED600_Rev3_ENG_SP_Meas-Mod_e	Measuring mode	E	ABBIED600:2014
TestPro	ABBIED600_Rev4_ENC_TestPro_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
AllwNonDir	ABBIED600_Rev1_SPG_SP_e	Allows prot activation as non-dir when dir info is invalid	E	ABBIED600:2014
NonDir	ABBIED600_Rev1_SPS_e	Forces protection to non-directional	E	ABBIED600:2014

6.2.63 LN: DPHLRDIR1 Name: RDIR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Dir	AB-BIED600_Rev1_ACD_threephase	Direction		
ChrAng	ABBIED600_Rev4_ASG_SG_i	Characteristic angle		
MinFwdAng	ABBIED600_Rev4_ASG_SG_i	Minimum phase angle in forward direction		
MinRvAng	ABBIED600_Rev4_ASG_SG_i	Minimum phase angle in reverse direction		
MaxFwdAng	ABBIED600_Rev4_ASG_SG_i	Maximum phase angle in forward direction		
MaxRvAng	ABBIED600_Rev4_ASG_SG_i	Maximum phase angle in reverse direction		
BikValA	ABBIED600_Rev3_ASG_SP_i	Min operate current		
BikValV	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	AB-BIED600:2014
Op-ChrAngPhsA	ABBIED600_Rev4_MV_simple_i_e	Calc angle difference phase A	E	AB-BIED600:2014
Op-ChrAngPhsB	ABBIED600_Rev4_MV_simple_i_e	Calc angle difference phase B	E	AB-BIED600:2014
Op-ChrAngPhsC	ABBIED600_Rev4_MV_simple_i_e	Calc angle difference phase C	E	AB-BIED600:2014
VMemUsedSt	ABBIED600_Rev1_SPS_e	Voltage memory in use status	E	AB-BIED600:2014

6.2.64 LN: DPHHPTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG	Operating Curve Type		
StrVal	ABBIED600_Rev4_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev4_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	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		
InEnaMult	ABBIED600_Rev1_SPS_e	Enables current multiplier	E	ABBIED600:2014
NumPh	ABBIED600_Rev3_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	ABBIED600:2014
StrValMult	ABBIED600_Rev4_ASG_SG_i_e	Multiplier for scaling the start value	E	ABBIED600:2014
StrDur	ABBIED600_Rev4_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
AMeas-Mod	ABBIED600_Rev3_ENG_SP_Meas-Mod_e	Selects used measurement mode	E	ABBIED600:2014
TestPro	ABBIED600_Rev4_ENC_TestPro_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
AllwNonDir	ABBIED600_Rev1_SPG_SP_e	Allows prot activation as non-dir when dir info is invalid	E	ABBIED600:2014
NonDir	ABBIED600_Rev1_SPS_e	Forces protection to non-directional	E	ABBIED600:2014

6.2.65 LN: DPHHRDIR1 Name: RDIR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		

Dir	AB-BIED600_Rev1_ACD_threephase	DIR		
ChrAng	ABBIED600_Rev4_ASG_SG_i	Characteristic angle		
MinFwdAng	ABBIED600_Rev4_ASG_SG_i	Minimum phase angle in forward direction		
MinRvAng	ABBIED600_Rev4_ASG_SG_i	Minimum phase angle in reverse direction		
MaxFwdAng	ABBIED600_Rev4_ASG_SG_i	Maximum phase angle in forward direction		
MaxRvAng	ABBIED600_Rev4_ASG_SG_i	Maximum phase angle in reverse direction		
BlkValA	ABBIED600_Rev3_ASG_SP_i	Min operate current		
BlkValV	ABBIED600_Rev3_ASG_SP_i	Min operate voltage		
PolQty	AB-BIED600_Rev3_ENG_SG_PolQty	Polarizing quantity		
VMemTmms	ABBIED600_Rev1_ING_SG_e	Voltage memory time	E	AB-BIED600:2014
Op-ChrAngPhsA	ABBIED600_Rev4_MV_simple_i_e	Calc angle difference phase A	E	AB-BIED600:2014
Op-ChrAngPhsB	ABBIED600_Rev4_MV_simple_i_e	Calc angle difference phase B	E	AB-BIED600:2014
Op-ChrAngPhsC	ABBIED600_Rev4_MV_simple_i_e	Calc angle difference phase C	E	AB-BIED600:2014
VMemUsedSt	ABBIED600_Rev1_SPS_e	Voltage memory in use status	E	AB-BIED600:2014

6.2.66 LN: DEFLPTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG	Curve parameter E		
StrVal	ABBIED600_Rev4_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev4_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_Rev4_ASG_SG_i_e	Voltage start value	E	IEC 61850-7-4:2007
StrValMult	ABBIED600_Rev4_ASG_SG_i_e	Multiplier for scaling the start value	E	ABBIED600:2014
AllwNonDir	ABBIED600_Rev1_SPG_SP_e	Allows prot activation as non-dir when dir info is invalid	E	ABBIED600:2014
AMeasMod	ABBIED600_Rev3_ENG_SP_Meas-Mod_e	Selects used measurement mode	E	ABBIED600:2014
InEnaMult	ABBIED600_Rev1_SPS_e	Enables current multiplier	E	ABBIED600:2014
StrDur	ABBIED600_Rev4_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
EnaVLim	ABBIED600_Rev1_SPG_SG_e	Enable voltage limit	E	ABBIED600:2014
TestPro	ABBIED600_Rev4_ENC_TestPro_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
AResSigSel	ABBIED600_Rev2_ENG_SP_AResSigSel_e	Selection for used Io signal	E	ABBIED600:2014

6.2.67 LN: DEFLRDIR1 Name: RDIR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Dir	ABBIED600_Rev1_ACD_simple	Direction		
ChrAng	ABBIED600_Rev4_ASG_SG_i	Characteristic angle		
MinFwdAng	ABBIED600_Rev4_ASG_SG_i	Minimum phase angle in forward direction		
MinRvAng	ABBIED600_Rev4_ASG_SG_i	Minimum phase angle in reverse direction		
MaxFwdAng	ABBIED600_Rev4_ASG_SG_i	Maximum phase angle in forward direction		
MaxRvAng	ABBIED600_Rev4_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	ABBIED600:2014

OpModEF	ABBIED600_Rev2_ENG_SG_Op-ModEF_e	Operation criteria	E	AB-BIED600:2014
CorAng	ABBIED600_Rev3_ASG_SP_i_e	Correction angle	E	AB-BIED600:2014
RevPol	ABBIED600_Rev1_SPG_SP_e	Rotate polarizing quantity	E	AB-BIED600:2014
OpAEF	ABBIED600_Rev4_MV_simple_i_e	Operating current for EF protection	E	AB-BIED600:2014
OpPolAng	ABBIED600_Rev4_MV_simple_i_e	Angle between operating and polarizing quantity	E	AB-BIED600:2014
OpChrAng	ABBIED600_Rev4_MV_simple_i_e	Angle between operating angle and characteristic angle	E	AB-BIED600:2014
VResSigSel	AB-BIED600_Rev2_ENG_SP_VResSigSel_e	Selection for used Uo signal	E	AB-BIED600:2014

6.2.68 LN: DEFHPTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG	Operating Curve Type		
StrVal	ABBIED600_Rev4_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev4_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_Rev4_ASG_SG_i_e	Voltage start value	E	IEC 61850-7-4:2007
StrValMult	ABBIED600_Rev4_ASG_SG_i_e	Multiplier for scaling the start value	E	ABBIED600:2014
AllwNonDir	ABBIED600_Rev1_SPG_SP_e	Allows prot activation as non-dir when dir info is invalid	E	ABBIED600:2014

AMeasMod	ABBIED600_Rev3_ENG_SP_Meas-Mod_e	Selects used measurement mode	E	ABBIED600:2014
InEnaMult	ABBIED600_Rev1_SPS_e	Enables current multiplier	E	ABBIED600:2014
StrDur	ABBIED600_Rev4_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
EnaVLim	ABBIED600_Rev1_SPG_SG_e	Enable voltage limit	E	ABBIED600:2014
TestPro	ABBIED600_Rev4_ENC_TestPro_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
AResSigSel	AB-BIED600_Rev2_ENG_SP_AResSigSel_e	Selection for used Io signal	E	ABBIED600:2014

6.2.69 LN: DEFHRDIR1 Name: RDIR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Dir	ABBIED600_Rev1_ACD_simple	Direction		
ChrAng	ABBIED600_Rev4_ASG_SG_i	Characteristic angle		
MinFwdAng	ABBIED600_Rev4_ASG_SG_i	Minimum phase angle in forward direction		
MinRvAng	ABBIED600_Rev4_ASG_SG_i	Minimum phase angle in reverse direction		
MaxFwdAng	ABBIED600_Rev4_ASG_SG_i	Maximum phase angle in forward direction		
MaxRvAng	ABBIED600_Rev4_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	AB-BIED600:2014
OpModEF	ABBIED600_Rev2_ENG_SG_Op-ModEF_e	Operation criteria	E	AB-BIED600:2014
CorAng	ABBIED600_Rev3_ASG_SP_i_e	Correction angle	E	AB-BIED600:2014
RevPol	ABBIED600_Rev1_SPG_SP_e	Rotate polarizing quantity	E	AB-BIED600:2014
OpAEF	ABBIED600_Rev4_MV_simple_i_e	Operating current for EF protection	E	AB-BIED600:2014
OpPolAng	ABBIED600_Rev4_MV_simple_i_e	Angle between operating and polarizing quantity	E	AB-BIED600:2014
OpChrAng	ABBIED600_Rev4_MV_simple_i_e	Angle between operating angle and characteristic angle	E	AB-BIED600:2014

VResSigSel	AB-BIED600_Rev2_ENG_SP_VResSigSel_e	Selection for used Uo signal	E	AB-BIED600:2014
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6.2.70 LN: DPPDOP1 Name: PDOP (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod	Directional mode		
StrVal	ABBIED600_Rev4_ASG_SG_i	Start value		
OpDITmms	ABBIED600_Rev1_ING_SG_time	Operate delay time		
RsDITmms	ABBIED600_Rev1_ING_SP	Reset delay time		
PwrMeas-Mod	ABBIED600_Rev3_ENG_SP_Pwr-MeasMod_e	Measurement mode for power calculation	E	ABBIED600:2014
RevPol	ABBIED600_Rev1_SPG_SP_e	Rotate polarizing quantity	E	ABBIED600:2014
PwrAng	ABBIED600_Rev4_ASG_SG_i_e	Power angle	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev4_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014

6.2.71 LN: DOPMMXU1 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
TotW	ABBIED600_Rev4_MV_simple_i	Total active power (Total P)		
TotVAr	ABBIED600_Rev4_MV_simple_i	Total reactive power (Total Q)		
TotVA	ABBIED600_Rev4_MV_simple_i	Total apparent power (Total S)		
TotPFang	ABBIED600_Rev4_MV_simple_i_e	Angle between apparent power and active power	E	AB-BIED600:2014

6.2.72 LN: PDNSPTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		

Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev4_ASG_SG_i	Start value		
OpDITmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
RsDITmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
ImbNgA	ABBIED600_Rev4_MV_simple_i_e	Measured current ratio I2 / I1	E	IEC 61850-7-4:2007
MinPhA	ABBIED600_Rev3_ASG_SP_i_e	Minimum phase current	E	ABBIED600:2014
StrDur	ABBIED600_Rev4_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.73 LN: T1PTTR1 Name: PTTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_Of-OfOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Tmp	ABBIED600_Rev4_MV_simple_i	TEMP		
TmpRI	ABBIED600_Rev4_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_Rev4_ASG_SG_i	Operate level temperature		
ConsTms1	ABBIED600_Rev1_ING_SG	Time constant for thermal model		
AlmVal	ABBIED600_Rev4_ASG_SG_i	Alarm level temperature		
RsTmp	ABBIED600_Rev2_SPC_control_e	Reset temperature	E	ABBIED600:2014,status-only,direct-with-normal-security
InEnaMult	ABBIED600_Rev1_SPS_e	Enable multiplier for reference setting	E	ABBIED600:2014
BlkThm	ABBIED600_Rev1_SPS	Block reclose signal		
TmpUsed	ABBIED600_Rev4_MV_simple_i_e	The ambient temperature used in the calculation	E	ABBIED600:2014

TmpAmb	ABBIED600_Rev4_MV_simple_i_e	Ambient temperature	E	ABBIED600:2014
OpTm	ABBIED600_Rev4_INS_Unit_e	Estimated time to operate	E	ABBIED600:2014
BlkThmRsTm	ABBIED600_Rev4_INS_Unit_e	Estimated time to deactivate BLK_CLOSE	E	ABBIED600:2014
AMult	ABBIED600_Rev1_ING_SG_e	Current reference multiplier for thermal model	E	ABBIED600:2014
ARef	ABBIED600_Rev4_ASG_SG_i_e	Current reference for thermal model	E	ABBIED600:2014
EnvTmpSet	ABBIED600_Rev4_ASG_SG_i_e	Ambient temperature	E	ABBIED600:2014
IniTmp	ABBIED600_Rev3_ASG_SP_i_e	Temperature calculation initial value	E	ABBIED600:2014
RecTmpSet	ABBIED600_Rev4_ASG_SG_i_e	Temperature for reset of BLK_CLOSE after operate	E	ABBIED600:2014
TmpR	ABBIED600_Rev4_ASG_SG_i_e	Temperature rise	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.74 LN: DARREC1 Name: RREC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_Of-fOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
OpCntRs	ABBIED600_Rev1_INC_simple_int_e	Resetable operation counter (all shots)	E	IEC 61850-7-4:2007,status-only
RecCyc	ABBIED600_Rev1_INS	Actual reclose cycle (number between 1 and UseCyc)		
OpCls	ABBIED600_Rev1_ACT_threephase	Operate (close command to XCBR)		
AutoRecSt	ABBIED600_Rev3_ENS_AutoRecSt	Auto Reclosing Status		
Rec1Tmms1	ABBIED600_Rev1_ING_SP	First reclose time		
Rec1Tmms2	ABBIED600_Rev1_ING_SP	Second reclose time		
Rec1Tmms3	ABBIED600_Rev1_ING_SP	Third reclose time		
Rec1Tmms4	ABBIED600_Rev1_ING_SP	Fourth reclose time		
Rec1Tmms5	ABBIED600_Rev1_ING_SP	Fifth reclose time		
Rec1Tmms6	ABBIED600_Rev1_ING_SP	Sixth reclose time		
Rec1Tmms7	ABBIED600_Rev1_ING_SP	Seventh reclose time		
Rec3Tmms1	ABBIED600_Rev1_ING_SP	First reclose time		

Rec3Tmms2	ABBIED600_Rev1_ING_SP	Second reclose time		
Rec3Tmms3	ABBIED600_Rev1_ING_SP	Third reclose time		
Rec3Tmms4	ABBIED600_Rev1_ING_SP	Fourth reclose time		
Rec3Tmms5	ABBIED600_Rev1_ING_SP	Fifth reclose time		
Rec3Tmms6	ABBIED600_Rev1_ING_SP	Sixth reclose time		
Rec3Tmms7	ABBIED600_Rev1_ING_SP	Seventh reclose time		
RclTmms	ABBIED600_Rev1_ING_SP	Reclaim time		
OpOpn	AB- BIED600_Rev1_ACT_threephase_e	Operate (open command to XCBR)	E	IEC 61850-7-4:2007
BlkRec	ABBIED600_Rev2_SPC_control_e	Block reclose	E	ABBIED600:2014,status-only,direct-with-normal-security
RecCnt1	ABBIED600_Rev1_INS_e	Operation counter (1st shot)	E	ABBIED600:2014
RecCnt2	ABBIED600_Rev1_INS_e	Operation counter (2nd shot)	E	ABBIED600:2014
RecCnt3	ABBIED600_Rev1_INS_e	Operation counter (3rd shot)	E	ABBIED600:2014
RecCnt4	ABBIED600_Rev1_INS_e	Operation counter (4th shot)	E	ABBIED600:2014
RecCnt5	ABBIED600_Rev1_INS_e	Operation counter (5th shot)	E	ABBIED600:2014
AutoIni	ABBIED600_Rev1_ING_SP_1_e	Auto init	E	ABBIED600:2014
RecOp	ABBIED600_Rev2_ENG_SP_re-cOp_e	Reclosing operation	E	ABBIED600:2014
ManClsMod	ABBIED600_Rev1_SPG_SP_e	Manual close mode	E	ABBIED600:2014
WtClsTmms	ABBIED600_Rev1_ING_SP_e	Wait close time	E	ABBIED600:2014
MaxWtTmms	ABBIED600_Rev1_ING_SP_e	Max wait time	E	ABBIED600:2014
Max-BlkTmms	ABBIED600_Rev1_ING_SP_e	Max Thm block time	E	ABBIED600:2014
CutOutTmms	ABBIED600_Rev1_ING_SP_e	Cut-out time	E	ABBIED600:2014
DsrTmms1	ABBIED600_Rev1_ING_SP_e	Dsr time shot 1	E	ABBIED600:2014
DsrTmms2	ABBIED600_Rev1_ING_SP_e	Dsr time shot 2	E	ABBIED600:2014
DsrTmms3	ABBIED600_Rev1_ING_SP_e	Dsr time shot 3	E	ABBIED600:2014
DsrTmms4	ABBIED600_Rev1_ING_SP_e	Dsr time shot 4	E	ABBIED600:2014
TermPrio	ABBIED600_Rev2_ENG_SP_term-Prio_e	Terminal priority	E	ABBIED600:2014
SynSet	ABBIED600_Rev1_ING_SP_1_e	Synchronisation set	E	ABBIED600:2014
AutoWtTmms	ABBIED600_Rev1_ING_SP_e	Auto wait time	E	ABBIED600:2014
AutoLORs	ABBIED600_Rev1_SPG_SP_e	Auto lockout reset	E	ABBIED600:2014
ProCrdLim	ABBIED600_Rev1_ING_SP_1_e	Protection crd limit	E	ABBIED600:2014

ProCrdMod	ABBIED600_Rev2_ENG_SP_proCrd-Mod_e	Protection crd mode	E	ABBIED600:2014
AutoIniCnd	ABBIED600_Rev2_ENG_SP_autoIniCnd_e	Auto initiation cnd	E	ABBIED600:2014
TrLin	ABBIED600_Rev1_ING_SP_1_e	Tripping line	E	ABBIED600:2014
CtlLin	ABBIED600_Rev1_ING_SP_1_e	Control line	E	ABBIED600:2014
EnaShotJmp	ABBIED600_Rev1_SPG_SP_e	Enable shot jump	E	ABBIED600:2014
CBCIsPosSt	ABBIED600_Rev1_SPG_SP_e	CB closed Pos status	E	ABBIED600:2014
Ena4DISOF	ABBIED600_Rev1_SPG_SP_e	Fourth delay in SOTF	E	ABBIED600:2014
IniSigCBB1	ABBIED600_Rev1_ING_SP_1_e	Init signals CBB1	E	ABBIED600:2014
IniSigCBB2	ABBIED600_Rev1_ING_SP_1_e	Init signals CBB2	E	ABBIED600:2014
IniSigCBB3	ABBIED600_Rev1_ING_SP_1_e	Init signals CBB3	E	ABBIED600:2014
IniSigCBB4	ABBIED600_Rev1_ING_SP_1_e	Init signals CBB4	E	ABBIED600:2014
IniSigCBB5	ABBIED600_Rev1_ING_SP_1_e	Init signals CBB5	E	ABBIED600:2014
IniSigCBB6	ABBIED600_Rev1_ING_SP_1_e	Init signals CBB6	E	ABBIED600:2014
IniSigCBB7	ABBIED600_Rev1_ING_SP_1_e	Init signals CBB7	E	ABBIED600:2014
BlkSigCBB1	ABBIED600_Rev1_ING_SP_1_e	Blk signals CBB1	E	ABBIED600:2014
BlkSigCBB2	ABBIED600_Rev1_ING_SP_1_e	Blk signals CBB2	E	ABBIED600:2014
BlkSigCBB3	ABBIED600_Rev1_ING_SP_1_e	Blk signals CBB3	E	ABBIED600:2014
BlkSigCBB4	ABBIED600_Rev1_ING_SP_1_e	Blk signals CBB4	E	ABBIED600:2014
BlkSigCBB5	ABBIED600_Rev1_ING_SP_1_e	Blk signals CBB5	E	ABBIED600:2014
BlkSigCBB6	ABBIED600_Rev1_ING_SP_1_e	Blk signals CBB6	E	ABBIED600:2014
BlkSigCBB7	ABBIED600_Rev1_ING_SP_1_e	Blk signals CBB7	E	ABBIED600:2014
ShotNum1	ABBIED600_Rev1_ING_SP_1_e	Shot number CBB1	E	ABBIED600:2014
ShotNum2	ABBIED600_Rev1_ING_SP_1_e	Shot number CBB2	E	ABBIED600:2014
ShotNum3	ABBIED600_Rev1_ING_SP_1_e	Shot number CBB3	E	ABBIED600:2014
ShotNum4	ABBIED600_Rev1_ING_SP_1_e	Shot number CBB4	E	ABBIED600:2014
ShotNum5	ABBIED600_Rev1_ING_SP_1_e	Shot number CBB5	E	ABBIED600:2014
ShotNum6	ABBIED600_Rev1_ING_SP_1_e	Shot number CBB6	E	ABBIED600:2014
ShotNum7	ABBIED600_Rev1_ING_SP_1_e	Shot number CBB7	E	ABBIED600:2014
Str2Tmms1	ABBIED600_Rev1_ING_SP_e	Str 2 delay shot 1	E	ABBIED600:2014
Str2Tmms2	ABBIED600_Rev1_ING_SP_e	Str 2 delay shot 2	E	ABBIED600:2014
Str2Tmms3	ABBIED600_Rev1_ING_SP_e	Str 2 delay shot 3	E	ABBIED600:2014
Str2Tmms4	ABBIED600_Rev1_ING_SP_e	Str 2 delay shot 4	E	ABBIED600:2014
Str3Tmms1	ABBIED600_Rev1_ING_SP_e	Str 3 delay shot 1	E	ABBIED600:2014
Str3Tmms2	ABBIED600_Rev1_ING_SP_e	Str 3 delay shot 2	E	ABBIED600:2014
Str3Tmms3	ABBIED600_Rev1_ING_SP_e	Str 3 delay shot 3	E	ABBIED600:2014
Str3Tmms4	ABBIED600_Rev1_ING_SP_e	Str 3 delay shot 4	E	ABBIED600:2014
Str4Tmms1	ABBIED600_Rev1_ING_SP_e	Str 4 delay shot 1	E	ABBIED600:2014
Str4Tmms2	ABBIED600_Rev1_ING_SP_e	Str 4 delay shot 2	E	ABBIED600:2014
Str4Tmms3	ABBIED600_Rev1_ING_SP_e	Str 4 delay shot 3	E	ABBIED600:2014

Str4Tmms4	ABBIED600_Rev1_ING_SP_e	Str 4 delay shot 4	E	ABBIED600:2014
FrqCntLim	ABBIED600_Rev1_ING_SP_1_e	Frq Op counter limit	E	ABBIED600:2014
FrqCntTmm	ABBIED600_Rev1_ING_SP_1_e	Frq Op counter time	E	ABBIED600:2014
FrqRcvTmm	ABBIED600_Rev1_ING_SP_1_e	Frq Op recovery time	E	ABBIED600:2014
PlsTmms	ABBIED600_Rev1_ING_SP_e	Close pulse time	E	ABBIED600:2014
MaxTrTmms	ABBIED600_Rev1_ING_SP_e	Max trip time	E	ABBIED600:2014
InInhRec	ABBIED600_Rev1_SPS_e	Inhibit reclose (status)	E	ABBIED600:2014
InBlkThm	ABBIED600_Rev1_SPS_e	Thermal block (status)	E	ABBIED600:2014
LO	ABBIED600_Rev1_SPS_e	Lockout status	E	ABBIED600:2014
RdyRec	ABBIED600_Rev1_SPS_e	Ready reclose status	E	ABBIED600:2014
ActRec	ABBIED600_Rev1_SPS_e	Active reclose status	E	ABBIED600:2014
SucRec	ABBIED600_Rev1_SPS_e	Successful reclose status	E	ABBIED600:2014
UnsRec	ABBIED600_Rev1_SPS_e	Unsuccessful reclose status	E	ABBIED600:2014
PrgRec	ABBIED600_Rev1_SPS_e	In progress status	E	ABBIED600:2014
UnsCBCIs	ABBIED600_Rev1_SPS_e	Unsuccessful CB closing status	E	ABBIED600:2014
WtMstr	ABBIED600_Rev1_SPS_e	Master signal to follow	E	ABBIED600:2014
PrgRec1	ABBIED600_Rev1_SPS_e	In progress 1st reclose	E	ABBIED600:2014
PrgRec2	ABBIED600_Rev1_SPS_e	In progress 2nd reclose	E	ABBIED600:2014
PrgRec3	ABBIED600_Rev1_SPS_e	In progress 3rd reclose	E	ABBIED600:2014
PrgRec4	ABBIED600_Rev1_SPS_e	In progress 4th reclose	E	ABBIED600:2014
PrgRec5	ABBIED600_Rev1_SPS_e	In progress 5th reclose	E	ABBIED600:2014
PrgDsr	ABBIED600_Rev1_SPS_e	Discrimination time in progress	E	ABBIED600:2014
PrgCutOut	ABBIED600_Rev1_SPS_e	Cutout time in progress	E	ABBIED600:2014
FrqOpCnt	ABBIED600_Rev1_INS_e	Frequent operation counter	E	ABBIED600:2014
FrqOpAlm	ABBIED600_Rev1_SPS_e	Frequent operation counter alarm	E	ABBIED600:2014
RecRs	ABBIED600_Rev2_SPC_control_e	DARREC1 reset	E	ABBIED600:2014,status-only,direct-with-normal-security

CntRs	ABBIED600_Rev2_SPC_control_e	DARREC1 counters	E	ABBIED600:2014,status-only,direct-with-normal-security
DsaCnt	ABBIED600_Rev2_SPC_control_e	Signal for counter disabling	E	ABBIED600:2014,status-only,direct-with-normal-security
RclTmStr	ABBIED600_Rev1_SPS_e	Reclaim time started	E	ABBIED600:2014
ProCrd	ABBIED600_Rev1_SPS_e	Protection coordination	E	ABBIED600:2014
CBManCls	ABBIED600_Rev1_SPS_e	CB manually closed	E	ABBIED600:2014
AutoRecOn	ABBIED600_Rev1_SPS_e	AR switched On	E	ABBIED600:2014
ShotPntr	ABBIED600_Rev1_INS_e	Shot pointer value	E	ABBIED600:2014
InRecOn	ABBIED600_Rev1_SPS_e	AR on/off control signal status	E	ABBIED600:2014
InBlkRclTm	ABBIED600_Rev1_SPS_e	Block reclaim time	E	ABBIED600:2014
InCBPos	ABBIED600_Rev1_SPS_e	CB position input	E	ABBIED600:2014
InCBRdy	ABBIED600_Rev1_SPS_e	CB ready for re-closing	E	ABBIED600:2014
InSynChk	ABBIED600_Rev1_SPS_e	Synchro check fulfilled	E	ABBIED600:2014
InIncrPntr	ABBIED600_Rev1_SPS_e	Shot pointer increment by one	E	ABBIED600:2014
InIni1	ABBIED600_Rev1_SPS_e	No 1 operate signal	E	ABBIED600:2014
InIni2	ABBIED600_Rev1_SPS_e	No 2 operate signal	E	ABBIED600:2014
InIni3	ABBIED600_Rev1_SPS_e	No 3 operate signal	E	ABBIED600:2014
InIni4	ABBIED600_Rev1_SPS_e	No 4 operate signal	E	ABBIED600:2014
InIni5	ABBIED600_Rev1_SPS_e	No 5 operate signal	E	ABBIED600:2014
InIni6	ABBIED600_Rev1_SPS_e	No 6 operate signal	E	ABBIED600:2014
InDIIni2	ABBIED600_Rev1_SPS_e	No 2 start signal	E	ABBIED600:2014
InDIIni3	ABBIED600_Rev1_SPS_e	No 3 start signal	E	ABBIED600:2014
InDIIni4	ABBIED600_Rev1_SPS_e	No 4 start signal	E	ABBIED600:2014
RclTmEla	ABBIED600_Rev1_SPS_e	Reclaim time elapsed	E	ABBIED600:2014
InBlkRecTm	ABBIED600_Rev1_SPS_e	Blocks and resets dead time	E	ABBIED600:2014
SOF	ABBIED600_Rev1_SPS_e	Switch on the fault	E	ABBIED600:2014
TestCtl	ABBIED600_Rev5_ENC_TestCtl_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.75 LN: SECRSYN1 Name: RSYN (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		

Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Rel	ABBIED600_Rev1_SPS	Release		
VInd	ABBIED600_Rev1_SPS	Voltage Difference Indicator		
AngInd	ABBIED600_Rev1_SPS	Angle Difference Indicator		
HzInd	ABBIED600_Rev1_SPS	Frequency difference Indicator		
SynPrg	ABBIED600_Rev1_SPC_simple	Synchronising in progress		status-only
DifVClc	ABBIED600_Rev4_MV_simple_i	Calculated Difference in Voltage		
DifHzClc	ABBIED600_Rev4_MV_simple_i	Calculated Difference in Frequency		
DifAngClc	ABBIED600_Rev4_MV_simple_i	Calculated Difference of Phase Angle		
DifV	ABBIED600_Rev4_ASG_SG_i	Difference Voltage		
DifHz	ABBIED600_Rev4_ASG_SG_i	Difference Frequency		
DifAng	ABBIED600_Rev4_ASG_SG_i	Difference Phase Angle		
LivDeaMod	ABBIED600_Rev3_ENG_SG_LivDeaMod	Live Dead Mode		
DeaLinVal	ABBIED600_Rev3_ASG_SP_i	Dead Line Value		
LivLinVal	ABBIED600_Rev3_ASG_SP_i	Live Line Value		
DeaBusVal	ABBIED600_Rev3_ASG_SP_i	Dead Bus Value		
LivBusVal	ABBIED600_Rev3_ASG_SP_i	Live Bus Value		
PlsTmms	ABBIED600_Rev1_ING_SP_e	Close Pulse Time	E	ABBIED600:2014
CBTmms	ABBIED600_Rev1_ING_SP_e	Closing time of the breaker	E	IEC 61850-7-4:2007
FailCmd	ABBIED600_Rev1_SPS_e	CB closing request failed	E	ABBIED600:2014
FailSyn	ABBIED600_Rev1_SPS_e	CB closing failed	E	ABBIED600:2014
ClsRq	ABBIED600_Rev1_SPS_e	External closing request	E	ABBIED600:2014
Byps	ABBIED600_Rev1_SPS_e	Request to bypass synchronism check and voltage check	E	ABBIED600:2014
LLDBInd	ABBIED600_Rev1_SPS_e	Live Line, Dead Bus	E	ABBIED600:2014
LLLInd	ABBIED600_Rev1_SPS_e	Live Line, Live Bus	E	ABBIED600:2014
DLLInd	ABBIED600_Rev1_SPS_e	Dead Line, Live Bus	E	ABBIED600:2014
DLDBInd	ABBIED600_Rev1_SPS_e	Dead Line, Dead Bus	E	ABBIED600:2014
OpModSC	ABBIED600_Rev2_ENG_SP_Op-ModSC_e	Synchrocheck mode	E	ABBIED600:2014

OpModCtl	ABBIED600_Rev3_ENG_SP_OpMod-Ctrl_e	Selection of synchro check command or Continuous control mode	E	ABBIED600:2014
EnSt	ABBIED600_Rev2_ENS_EnergSt_e	Energization state of Line and Bus	E	ABBIED600:2014
MaxVEn	ABBIED600_Rev3_ASG_SP_i_e	Maximum voltage for energizing	E	ABBIED600:2014
PhSht	ABBIED600_Rev3_ASG_SP_i_e	Correction of phase difference between measured U_BUS and U_LINE	E	ABBIED600:2014
EnTmms	ABBIED600_Rev1_ING_SP_e	Time delay for energizing check	E	ABBIED600:2014
MaxSynTmms	ABBIED600_Rev1_ING_SP_e	Maximum time to accept synchronizing	E	ABBIED600:2014
MinSynTmms	ABBIED600_Rev1_ING_SP_e	Minimum time to accept synchronizing	E	ABBIED600:2014
TestCtl	ABBIED600_Rev5_ENC_TestCtl_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
VSrcSw	ABBIED600_Rev1_SPG_SP_e	Voltage source switch	E	ABBIED600:2014

6.2.76 LN: MFADPSDE1 Name: PSDE (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
GndStr	ABBIED600_Rev4_ASG_SG_i	Voltage start value		
StrDITmms	ABBIED600_Rev1_ING_SP_1	Start delay time		
OpDITmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod	Directional Mode		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
RsDITmms	ABBIED600_Rev1_ING_SP_1_e	Reset Delay Time	E	IEC 61850-7-4:2007
ItmEFInd	ABBIED600_Rev1_SPS_e	Intermittent earth-fault indication	E	ABBIED600:2014
InhEF	ABBIED600_Rev1_SPS_e	Block EF	E	ABBIED600:2014
PkInd	ABBIED600_Rev1_SPS_e	Current transient detection indication	E	ABBIED600:2014

TrgSt	ABBIED600_Rev1_SPS_simple_e	Signal indicating function triggering	E	ABBIED600:2014
PkCntLim	ABBIED600_Rev1_ING_SP_1_e	Min requirement for peak counter before start in IEF mode	E	ABBIED600:2014
TestPro	ABBIED600_Rev4_ENC_TestPro_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
OpModTEF	ABBIED600_Rev3_ENG_SP_Op-ModTEF_e	Operation mode for function	E	ABBIED600:2014
AResSigSel	AB- BIED600_Rev2_ENG_SP_AResSigSel_e	Selection for used Io signal	E	ABBIED600:2014
VResSigSel	AB- BIED600_Rev2_ENG_SP_VResSigSel_e	Selection for used Uo signal	E	ABBIED600:2014
GndOpRev	ABBIED600_Rev3_ASG_SP_i_e	Ground operate value in reverse direction	E	ABBIED600:2014
StrDur	ABBIED600_Rev4_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014

6.2.77 LN: MFADRD1R1 Name: RDIR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Dir	ABBIED600_Rev1_ACD_simple	Direction		
BlkValA	ABBIED600_Rev4_ASG_SG_i	Minimum operating current		
RevPol	ABBIED600_Rev1_SPG_SP_e	Rotate polarizing quantity	E	ABBIED600:2014
OpPolAng	ABBIED600_Rev4_MV_simple_i_e	Angle between polarizing and operating quantity	E	ABBIED600:2014
TiltAng	ABBIED600_Rev4_ASG_SG_i_e	Characteristic tilt angle	E	ABBIED600:2014
OpQtySel	AB- BIED600_Rev2_ENG_SP_OpQtySel_e	Operating quantity selection: resistive, amplitude	E	ABBIED600:2014
DirRs	ABBIED600_Rev1_SPC_simple_e	Direction calculation reset	E	ABBIED600:2014,status-only

6.2.78 LN: WPSDE1 Name: PSDE (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		

Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
GndStr	ABBIED600_Rev4_ASG_SG_i	Voltage start value		
GndOp	ABBIED600_Rev4_ASG_SG_i	Current start value		
OpDITmms	ABBIED600_Rev1_ING_SG	Operate delay time		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod	Directional mode		
StrVal	ABBIED600_Rev4_ASG_SG_i_e	Power start value	E	IEC 61850-7-4:2007
TmACrv	ABBIED600_Rev2_CURVE_SG_setCharacter_e	Operating curve type	E	IEC 61850-7-4:2007
TmMult	ABBIED600_Rev4_ASG_SG_i_e	Time multiplier	E	IEC 61850-7-4:2007
RsDITmms	ABBIED600_Rev1_ING_SP_1_e	Reset delay time	E	IEC 61850-7-4:2007
RefW	ABBIED600_Rev4_ASG_SG_i_e	Reference power	E	ABBIED600:2014
AMeasMod	ABBIED600_Rev3_ENG_SP_MeasMod_e	Measurement mode	E	ABBIED600:2014
StrDur	ABBIED600_Rev4_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev4_ENC_TestPro_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
AResSigSel	ABBIED600_Rev2_ENG_SP_AResSigSel_e	Selection for used Io signal	E	ABBIED600:2014

6.2.79 LN: WRDIR1 Name: RDIR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Dir	ABBIED600_Rev1_ACD_simple	Direction information		
ChrAng	ABBIED600_Rev4_ASG_SG_i	Characteristic angle		
BlkValA	ABBIED600_Rev3_ASG_SP_i	Min operate current		
BlkValV	ABBIED600_Rev3_ASG_SP_i	Min operate voltage		
CorAng	ABBIED600_Rev3_ASG_SP_i_e	Correction angle	E	ABBIED600:2014
RevPol	ABBIED600_Rev1_SPG_SP_e	Pol reversal	E	ABBIED600:2014
OpPolAng	ABBIED600_Rev4_MV_simple_i_e	Angle between operating and polarizing quantity	E	ABBIED600:2014

OpChrAng	ABBIED600_Rev4_MV_simple_i_e	Angle between operating angle and characteristic angle	E	AB-BIED600:2014
InRcaCtl	ABBIED600_Rev1_SPS_e	Relay characteristic angle control	E	AB-BIED600:2014
VResSigSel	AB-BIED600_Rev2_ENG_SP_VResSigSel_e	Selection for polarization signal	E	AB-BIED600:2014

6.2.80 LN: INTRPTEF1 Name: PTEF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
GndStr	ABBIED600_Rev4_ASG_SG_i	Voltage start value		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod	Directional Mode		
OpDITmms	ABBIED600_Rev1_ING_SG_e	Operate Delay Time	E	IEC 61850-7-4:2007
RsDITmms	ABBIED600_Rev1_ING_SP_1_e	Reset Delay Time	E	IEC 61850-7-4:2007
BlkValA	ABBIED600_Rev3_ASG_SP_i_e	Minimum operating current	E	IEC 61850-7-4:2007
InhEF	ABBIED600_Rev1_SPS_e	Block EF	E	ABBIED600:2014
StrDur	ABBIED600_Rev4_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
PkCntLim	ABBIED600_Rev1_ING_SP_1_e	Min requirement for peak counter before start in IEF mode	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
OpModTEF	ABBIED600_Rev3_ENG_SP_Op-ModTEF_e	Operation mode for function	E	ABBIED600:2014
VResSigSel	AB-BIED600_Rev2_ENG_SP_VResSigSel_e	Selection for used Uo signal	E	ABBIED600:2014

6.2.81 LN: SCEFRFLO1 Name: RFLO (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		

FltZ	ABBIED600_Rev4_CMV_S_1	Fault loop impedance		
FltDiskm	ABBIED600_Rev4_MV_simple_i	Fault distance		
FltLoop	ABBIED600_Rev5_ENS_FltLoop	Fault loop		
RcdBlk	ABBIED600_Rev1_SPS_simple_e	Signal for blocking the triggering	E	ABBIED600:2014
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	IEC 61850-7-4:2007
TrgSt	ABBIED600_Rev1_SPS_e	Triggered	E	ABBIED600:2014
FltPtR	ABBIED600_Rev4_MV_simple_i_e	Fault point resistance	E	ABBIED600:2014
FltR	ABBIED600_Rev4_MV_simple_i_e	Fault loop resistance	E	ABBIED600:2014
FltX	ABBIED600_Rev4_MV_simple_i_e	Fault loop reactance	E	ABBIED600:2014
PhReact	ABBIED600_Rev4_MV_simple_i_e	Fault phase reactance	E	ABBIED600:2014
RatFltALod	ABBIED600_Rev4_MV_simple_i_e	Fault to load current ratio	E	ABBIED600:2014
EqDisLod	ABBIED600_Rev4_MV_simple_i_e	Estimated equivalent load distance	E	ABBIED600:2014
PhGndCapac	ABBIED600_Rev4_MV_simple_i_e	Estimated PE capacitive reactance of the line	E	ABBIED600:2014
Trg	ABBIED600_Rev2_SPC_control_e	Triggering signal for distance calculation	E	ABBIED600:2014,status-only,direct-with-normal-security
TrgXC0F	ABBIED600_Rev2_SPC_control_e	Triggering signal for XC0F calculation	E	ABBIED600:2014,status-only,direct-with-normal-security
RcdRs	ABBIED600_Rev2_SPC_control_e	Recorded data reset	E	ABBIED600:2014,status-only,direct-with-normal-security
FltDisQ	ABBIED600_Rev1_INS_e	Fault distance quality	E	ABBIED600:2014
ZMaxLod	ABBIED600_Rev4_ASG_SG_i_e	Maximum load impedance	E	ABBIED600:2014
PhLeakRis	ABBIED600_Rev4_ASG_SG_i_e	Line PE leakage resistance	E	ABBIED600:2014
PhLinCapac	ABBIED600_Rev4_ASG_SG_i_e	Line PE capacitive reactance	E	ABBIED600:2014
EqLodDis	ABBIED600_Rev4_ASG_SG_i_e	Equivalent load distance	E	ABBIED600:2014
TrgMod	ABBIED600_Rev1_ENG_SP_Trigger-Mod_e	Trigger mode for distance calculation	E	IEC 61850-7-4:2007
HiLimSpt	ABBIED600_Rev4_ASG_SG_i	High alarm limit		
LoLimSpt	ABBIED600_Rev4_ASG_SG_i	Low alarm limit		

EFAIlgSel	ABBIED600_Rev2_ENG_SP_EFAIlg_e	PE-loop calculation algorithm	E	ABBIED600:2014
EFAIlgASel	ABBIED600_Rev2_ENG_SP_EFAIlgASel_e	Earth fault current model	E	ABBIED600:2014
EnaLodComp	ABBIED600_Rev1_SPG_SP_e	Enable load compensation	E	ABBIED600:2014
SimpMod	ABBIED600_Rev1_SPG_SP_e	Enable simple model	E	ABBIED600:2014
TestProRI	ABBIED600_Rev8_ENC_TestProRI_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
DisEstVa	ABBIED600_Rev3_ASG_SP_i_e	Allowed variation of short circuit distance estimate	E	ABBIED600:2014
PhVMeas	ABBIED600_Rev2_ENG_SP_PhVMeas_e	Phase voltage measurement principle	E	ABBIED600:2014

6.2.82 LN: DQPTUV1 Name: PTUV (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev4_ASG_SG_i	Start value for under voltage detection		
OpDITmms	ABBIED600_Rev1_ING_SG_time	Operate delay time		
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev4_MV_simple_i_e	Ratio of start time / operate time	E	ABBIED600:2014

6.2.83 LN: DQPDOP1 Name: PDOP (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start power conditions		
Op	ABBIED600_Rev1_ACT_simple	Operate power conditions without delay		
StrVal	ABBIED600_Rev3_ASG_SP_i	Minimum reactive power needed for function to operate		

BlkValA	ABBIED600_Rev3_ASG_SP_i_e	Minimum positive sequence current	E	IEC 61850-7-4:2007
RevPol	ABBIED600_Rev1_SPG_SP_e	Reverse the definition of the positive reactive power direction	E	ABBIED600:2014
PwrSec-tRed	ABBIED600_Rev3_ASG_SP_i_e	Adjustable angle for power	E	ABBIED600:2014

6.2.84 LN: LVRTPTUV1 Name: PTUV (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev4_ASG_SG_i	Start value		
TmVChr33	ABBIED600_Rev2_CSG_SP_10	Multiline curve characteristic definition		
NumPt	ABBIED600_Rev1_ING_SP_1_e	Coordinates used for defining LVRT curve	E	ABBIED600:2014
CrvPt0Tmms	ABBIED600_Rev1_ING_SP_1_e	1st time coordinate for defining LVRT curve	E	ABBIED600:2014
CrvPt1Tmms	ABBIED600_Rev1_ING_SP_1_e	2nd time coordinate for defining LVRT curve	E	ABBIED600:2014
CrvPt2Tmms	ABBIED600_Rev1_ING_SP_1_e	3rd time coordinate for defining LVRT curve	E	ABBIED600:2014
CrvPt3Tmms	ABBIED600_Rev1_ING_SP_1_e	4th time coordinate for defining LVRT curve	E	ABBIED600:2014
CrvPt4Tmms	ABBIED600_Rev1_ING_SP_1_e	5th time coordinate for defining LVRT curve	E	ABBIED600:2014
CrvPt5Tmms	ABBIED600_Rev1_ING_SP_1_e	6th time coordinate for defining LVRT curve	E	ABBIED600:2014
CrvPt6Tmms	ABBIED600_Rev1_ING_SP_1_e	7th time coordinate for defining LVRT curve	E	ABBIED600:2014
CrvPt7Tmms	ABBIED600_Rev1_ING_SP_1_e	8th time coordinate for defining LVRT curve	E	ABBIED600:2014

CrvPt8Tmms	ABBIED600_Rev1_ING_SP_1_e	9th time coordinate for defining LVRT curve	E	ABBIED600:2014
CrvPt9Tmms	ABBIED600_Rev1_ING_SP_1_e	10th time coordinate for defining LVRT curve	E	ABBIED600:2014
CrvPt0Ydir	ABBIED600_Rev3_ASG_SP_i_e	1st voltage coordinate for defining LVRT curve	E	ABBIED600:2014
CrvPt1Ydir	ABBIED600_Rev3_ASG_SP_i_e	2nd voltage coordinate for defining LVRT curve	E	ABBIED600:2014
CrvPt2Ydir	ABBIED600_Rev3_ASG_SP_i_e	3rd voltage coordinate for defining LVRT curve	E	ABBIED600:2014
CrvPt3Ydir	ABBIED600_Rev3_ASG_SP_i_e	4th voltage coordinate for defining LVRT curve	E	ABBIED600:2014
CrvPt4Ydir	ABBIED600_Rev3_ASG_SP_i_e	5th voltage coordinate for defining LVRT curve	E	ABBIED600:2014
CrvPt5Ydir	ABBIED600_Rev3_ASG_SP_i_e	6th voltage coordinate for defining LVRT curve	E	ABBIED600:2014
CrvPt6Ydir	ABBIED600_Rev3_ASG_SP_i_e	7th voltage coordinate for defining LVRT curve	E	ABBIED600:2014
CrvPt7Ydir	ABBIED600_Rev3_ASG_SP_i_e	8th voltage coordinate for defining LVRT curve	E	ABBIED600:2014
CrvPt8Ydir	ABBIED600_Rev3_ASG_SP_i_e	9th voltage coordinate for defining LVRT curve	E	ABBIED600:2014
CrvPt9Ydir	ABBIED600_Rev3_ASG_SP_i_e	10th voltage coordinate for defining LVRT curve	E	ABBIED600:2014
NumPh	AB-BIED600_Rev3_ENG_SP_StrPhSel_e	Number of phases required for operate activation	E	ABBIED600:2014
VCrtSel	AB-BIED600_Rev1_ENG_SP_VCrtSel_e	Voltage criteria selection	E	ABBIED600:2014
TestPro	ABBIED600_Rev4_ENC_TestPro_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.85 LN: VMHA11 Name: MHAI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		

Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Hz	ABBIED600_Rev4_MV_simple_i	Fundamental frequency		
ThdPhV	ABBIED600_Rev3_WYE_threephase_simple_i	Voltage Total Harmonic Distortion per IEEE 519		
ThdVVal	ABBIED600_Rev3_ASG_SP_i	ThdPhV / ThdPPV alarm Setting – value entered in %		
Alm	ABBIED600_Rev1_SPS	Alarm		
RcdRs	ABBIED600_Rev2_SPC_control_e	VMHAI1 max.demands	E	ABBIED600:2014,status-only,direct-with-normal-security
Dmdltrv	ABBIED600_Rev2_ENG_SP_dmdltrv_e	Time interval for demand calculation	E	ABBIED600:2014
DmdThdPhV	ABBIED600_Rev3_WYE_threephase_simple_i_e	Voltage Total Harmonic Distortion	E	ABBIED600:2014
MaxDmdThdV	ABBIED600_Rev3_WYE_threephase_simple_i_e	Maximum voltage total harmonic distortion	E	ABBIED600:2014
DmdWinMod	ABBIED600_Rev2_ENG_SP_DmdWinMod_e	Demand calculation window	E	ABBIED600:2014

6.2.86 LN: PH1QVVR1 Name: QVVR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
VarStr	ABBIED600_Rev1_SPS	Start Phase A (Voltage Variation Event in progress)		
DipStr	ABBIED600_Rev1_SPS	Start (Voltage Dip Event in progress)		
SwlStr	ABBIED600_Rev1_SPS	Start (Voltage Swell Event in progress)		
IntrStr	ABBIED600_Rev1_SPS	Start (Voltage Interruption Event in progress)		
VarEnd	ABBIED600_Rev1_SPS	Event finished but not Reset		

VVa	ABBIED600_Rev4_MV_simple_i	Voltage Variation Magnitude of the last completed event		
VVaTm	ABBIED600_Rev4_MV_simple_i	Voltage Variation Duration of the last completed event		
OpCntRs	ABBIED600_Rev2_INC_control_int	Resettable operation counter		status-only,direct-with-normal-security
DipStrVal	ABBIED600_Rev4_ASG_SG_i	Voltage Dip Set Point 1		
DipStr2Val	ABBIED600_Rev4_ASG_SG_i_e	Voltage Dip Set Point 2	E	ABBIED600:2014
DipStr3Val	ABBIED600_Rev4_ASG_SG_i_e	Voltage Dip Set Point 3	E	ABBIED600:2014
SwlStrVal	ABBIED600_Rev4_ASG_SG_i	Voltage Swell Set Point 1		
SwlStr2Val	ABBIED600_Rev4_ASG_SG_i_e	Voltage Swell Set Point 2	E	ABBIED600:2014
SwlStr3Val	ABBIED600_Rev4_ASG_SG_i_e	Voltage Swell Set Point 3	E	ABBIED600:2014
IntrStrVal	ABBIED600_Rev4_ASG_SG_i	Voltage Interruption Set Point		
RefV	ABBIED600_Rev4_ASG_SG_i_e	Reference supply voltage in %	E	IEC 61850-7-4:2007
Dip1Cyc	ABBIED600_Rev4_ASG_SG_i_e	Voltage variation dip duration 1	E	ABBIED600:2014
Dip2Cyc	ABBIED600_Rev4_ASG_SG_i_e	Voltage variation dip duration 2	E	ABBIED600:2014
Dip3Tmms	ABBIED600_Rev1_ING_SG_e	Voltage variation dip duration 3	E	ABBIED600:2014
Swl1Cyc	ABBIED600_Rev4_ASG_SG_i_e	Voltage variation swell duration 1	E	ABBIED600:2014
Swl2Cyc	ABBIED600_Rev4_ASG_SG_i_e	Voltage variation swell duration 2	E	ABBIED600:2014
Swl3Tmms	ABBIED600_Rev1_ING_SG_e	Voltage variation swell duration 3	E	ABBIED600:2014
Intr1Cyc	ABBIED600_Rev4_ASG_SG_i_e	Voltage variation interruption duration 1	E	ABBIED600:2014
Intr2Cyc	ABBIED600_Rev4_ASG_SG_i_e	Voltage variation interruption duration 2	E	ABBIED600:2014
Intr3Tmms	ABBIED600_Rev1_ING_SG_e	Voltage variation interruption duration 3	E	ABBIED600:2014
MaxDurTmms	ABBIED600_Rev1_ING_SG_e	Maximum voltage variation duration	E	ABBIED600:2014

SwlOp	ABBIED600_Rev1_SPS_e	Voltage Event Swell detected	E	ABBIED600:2014
DipOp	ABBIED600_Rev1_SPS_e	Voltage Event Dip detected	E	ABBIED600:2014
IntrOp	ABBIED600_Rev1_SPS_e	Voltage Event Interruption detected	E	ABBIED600:2014
APreVa	ABBIED600_Rev4_MV_simple_i_e	Current magnitude Ph A preceding variation	E	ABBIED600:2014
SwlInstCnt	ABBIED600_Rev1_INS_e	Instantaneous swell operation counter	E	ABBIED600:2014
SwlMomCnt	ABBIED600_Rev1_INS_e	Momentary swell operation counter	E	ABBIED600:2014
SwlTmpCnt	ABBIED600_Rev1_INS_e	Temporary swell operation counter	E	ABBIED600:2014
SwlMaxCnt	ABBIED600_Rev1_INS_e	Maximum duration swell operation counter	E	ABBIED600:2014
DipInstCnt	ABBIED600_Rev1_INS_e	Instantaneous dip operation counter	E	ABBIED600:2014
DipTmpCnt	ABBIED600_Rev1_INS_e	Temporary dip operation counter	E	ABBIED600:2014
DipMomCnt	ABBIED600_Rev1_INS_e	Momentary dip operation counter	E	ABBIED600:2014
DipMaxCnt	ABBIED600_Rev1_INS_e	Maximum duration dip operation counter	E	ABBIED600:2014
IntrMomCnt	ABBIED600_Rev1_INS_e	Momentary interruption operation counter	E	ABBIED600:2014
IntrTmpCnt	ABBIED600_Rev1_INS_e	Temporary interruption operation counter	E	ABBIED600:2014
IntrSstCnt	ABBIED600_Rev1_INS_e	Sustained interruption operation counter	E	ABBIED600:2014
IntrMaxCnt	ABBIED600_Rev1_INS_e	Maximum duration interruption operation counter	E	ABBIED600:2014
CntRs	ABBIED600_Rev2_SPC_control_e	Counters reset	E	ABBIED600:2014,status-only,direct-with-normal-security
PhSpvn	ABBIED600_Rev2_ENG_SP_PhSv_e	Monitored phase	E	ABBIED600:2014
OpModPh	ABBIED600_Rev2_ENG_SP_Op-ModPh_e	Phase mode	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

VVaEna	AB-BIED600_Rev3_ENG_SP_VVaTyp_e	Variation enable	E	ABBIED600:2014
VaOp	ABBIED600_Rev1_SPS_e	Voltage Event detected	E	ABBIED600:2014
VaStrGen	ABBIED600_Rev1_SPS_e	Start (Voltage Variation Event in progress)	E	ABBIED600:2014
VVaTyp	ABBIED600_Rev3_ENS_VVaTyp_e	Voltage variation type	E	ABBIED600:2014
RcdRs	ABBIED600_Rev2_SPC_control_e	Recorded data reset	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.87 LN: PH2QVVR1 Name: QVVR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
VarStr	ABBIED600_Rev1_SPS	Start Phase B (Voltage Variation Event in progress)		
VVa	ABBIED600_Rev4_MV_simple_i	Voltage Variation Magnitude of the last completed event		
VVaTm	ABBIED600_Rev4_MV_simple_i	Voltage Variation Duration of the last completed event		
APreVa	ABBIED600_Rev4_MV_simple_i_e	Current magnitude Phase B preceding variation	E	AB-BIED600:2014

6.2.88 LN: PH3QVVR1 Name: QVVR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
VarStr	ABBIED600_Rev1_SPS	Start Phase C (Voltage Variation Event in progress)		
VVa	ABBIED600_Rev4_MV_simple_i	Voltage Variation Magnitude of the last completed event		
VVaTm	ABBIED600_Rev4_MV_simple_i	Voltage Variation Duration of the last completed event		
APreVa	ABBIED600_Rev4_MV_simple_i_e	Current magnitude Ph C preceding variation	E	AB-BIED600:2014

6.2.89 LN: VSQVUB1 Name: QVUB (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		

Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
VarStr	ABBIED600_Rev1_SPS	Start of the event		
MaxVVA	ABBIED600_Rev4_MV_simple_i	Maximum unbalance deviation value		
UnbDetMth	ABBIED600_Rev1_ENG_SP_UnbDetMth	Unbalance detection method		
StrVal	ABBIED600_Rev3_ASG_SP_i	Voltage unbalance start value		
TrgModPQ	ABBIED600_Rev2_ENG_SP_TrModPQ_e	Observation period triggering mode	E	ABBIED600:2014
ObsPerSel	ABBIED600_Rev2_ENG_SP_ObsPerSel_e	Observation period duration	E	ABBIED600:2014
ObsPerUsr	ABBIED600_Rev1_ING_SP_1_e	User defined observation period	E	ABBIED600:2014
HiPctVUnb	ABBIED600_Rev1_SPS_e	Status percentile unbalance exceeds the limit	E	ABBIED600:2014
ObsPerAct	ABBIED600_Rev1_SPS_e	Observation period for statistical calculation active	E	ABBIED600:2014
PctUnbVal	ABBIED600_Rev4_MV_simple_i_e	Percentile value of voltage unbalance in an observation	E	ABBIED600:2014
VUnb3sMn	ABBIED600_Rev4_MV_simple_i_e	Non sliding 3 second mean value of voltage unbalance	E	ABBIED600:2014
VUnb10mMn	ABBIED600_Rev4_MV_simple_i_e	Sliding 10 minutes mean value of voltage unbalance	E	ABBIED600:2014
PctUnb	ABBIED600_Rev3_ASG_SP_i_e	Percentile Index	E	ABBIED600:2014
ObsPerStr	ABBIED600_Rev1_SPS_simple_e	Observation Start	E	ABBIED600:2014
ObsPerEnd	ABBIED600_Rev1_SPS_simple_e	Observation End	E	ABBIED600:2014
TestOth	ABBIED600_Rev1_ENC_TestOth_e	Test Outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
TrgObsPer	ABBIED600_Rev2_SPC_control_e	Trigger for observation period	E	ABBIED600:2014,status-only,direct-with-normal-security
RcdRs	ABBIED600_Rev2_SPC_control_e	Recorded data reset	E	ABBIED600:2014,status-only,direct-with-normal-security
PerStrDate	ABBIED600_Rev3_TSG_SP_set-Cal_e	Observation start time	E	ABBIED600:2014

6.2.90 LN: CMHAI1 Name: MHAI (ED2)

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

Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Hz	ABBIED600_Rev4_MV_simple_i	Fundamental frequency		
TddA	ABBIED600_Rev3_WYE_threephase_simple_i	Current Total Demand Distortion per IEEE 519		
NomA	ABBIED600_Rev3_ASG_SP_i	Normalising demand current used in IEEE 519 TDD calculation		
Alm	ABBIED600_Rev1_SPS	Alarm		
TddAVal	ABBIED600_Rev3_ASG_SP_i_e	TddA Alarm setting - value entered in %	E	ABBIED600:2014
RcdRs	ABBIED600_Rev2_SPC_control_e	CMHAI1 max.demands	E	ABBIED600:2014,status-only,direct-with-normal-security
Dmdltrv	ABBIED600_Rev2_ENG_SP_dmdltrv_e	Time interval for demand calculation	E	ABBIED600:2014
DmdTddA	ABBIED600_Rev3_WYE_threephase_simple_i_e	Current Total Demand Distortion	E	ABBIED600:2014
MaxDmdTddA	ABBIED600_Rev3_WYE_threephase_simple_i_e	Maximum current total demand distortion	E	ABBIED600:2014
DmdWinMod	ABBIED600_Rev2_ENG_SP_DmdWinMod_e	Demand calculation window	E	ABBIED600:2014

6.2.91 LN: TPOSYLTC1 Name: YLTC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On-Off_NoBlk_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		
TapPos	ABBIED600_Rev1_ISC_simple	TAPPOS		status-only
EndPosR	ABBIED600_Rev1_SPS	End position raise or highest reached		
EndPosL	ABBIED600_Rev1_SPS	End position lower or lowest reached		
InBit1	ABBIED600_Rev1_SPS_e	BI0	E	ABBIED600:2014
InBit2	ABBIED600_Rev1_SPS_e	BI1	E	ABBIED600:2014
InBit3	ABBIED600_Rev1_SPS_e	BI2	E	ABBIED600:2014
InBit4	ABBIED600_Rev1_SPS_e	BI3	E	ABBIED600:2014

InBit5	ABBIED600_Rev1_SPS_e	BI4	E	ABBIED600:2014
InBit6	ABBIED600_Rev1_SPS_e	BI5	E	ABBIED600:2014
InBit7	ABBIED600_Rev1_SPS_e	SIGN_BIT	E	ABBIED600:2014
BinCdMod	ABBIED600_Rev2_ENG_SP_BCMod_e	Operation mode selection	E	ABBIED600:2014

6.2.92 LN: ARCSARC1 Name: SARC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Beh		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
InRemFA	ABBIED600_Rev1_SPS_e	Remote Fault arc detected	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.93 LN: ARCPTRC1 Name: PTRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Beh		
Op	ABBIED600_Rev1_ACT_simple	Operate		
OpModArc	ABBIED600_Rev2_ENG_SG_OpModArc_e	Operation mode	E	ABBIED600:2014
InOpMod	ABBIED600_Rev1_SPS_e	Operation mode input	E	ABBIED600:2014

6.2.94 LN: LSHDPTRC1 Name: PTRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Op	ABBIED600_Rev1_ACT_simple	Operate		
Str	ABBIED600_Rev1_ACD_simple	Start		
OpDITmms	ABBIED600_Rev1_ING_SG	Time delay to restore		
RsDITmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev4_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014

LodShdMod	ABBIED600_Rev2_ENG_SG_Op-ModProHz_e	Operation mode	E	ABBIED600:2014
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6.2.95 LN: LSHDPTOF1 Name: PTOF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start of restore		
Op	ABBIED600_Rev1_ACT_simple	Restore the load		
StrVal	ABBIED600_Rev4_ASG_SG_i	Restore frequency		
ManRest	ABBIED600_Rev2_SPC_control_e	Manual restore command	E	ABBIED600:2014,status-only,direct-with-normal-security
RestMod	ABBIED600_Rev2_ENG_SG_Auto-ManMod_e	Restore mode	E	ABBIED600:2014
BlkRest	ABBIED600_Rev2_SPC_control_e	Cancel restore	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.96 LN: SVIL1TCTR1 Name: TCTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Mode		
ARtg	AB-BIED600_Rev4_ASG_SP_ARtg_VRtg	Primary rated current		
Smvld	ABBIED600_Rev1_VSG_2_e	SmvID of incoming 9-2 stream	E	AB-BIED600:2014
Alm	ABBIED600_Rev1_SPS	Alarm		
Wrn	ABBIED600_Rev1_SPS_e	Warning	E	AB-BIED600:2014
ConfErr	ABBIED600_Rev1_SPS_e	Configuration error	E	AB-BIED600:2014
SvAngCor	ABBIED600_Rev3_ASG_SP_i_e	SV angle correction of merging unit	E	AB-BIED600:2014
RxSim	ABBIED600_Rev1_SPS_e	Receiving simulation	E	AB-BIED600:2014

6.2.97 LN: SVRESTCTR1 Name: TCTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Mode		
ARtg	AB-BIED600_Rev4_ASG_SP_ARtg_VRtg	Primary rated current		
Smvld	ABBIED600_Rev1_VSG_2_e	SmvID of incoming 9-2 stream	E	AB-BIED600:2014

Alm	ABBIED600_Rev1_SPS	Alarm		
Wrn	ABBIED600_Rev1_SPS_e	Warning	E	AB-BIED600:2014
RxSim	ABBIED600_Rev1_SPS_e	Receiving simulation	E	AB-BIED600:2014

6.2.98 LN: SVUL1TVTR1 Name: TVTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Mode		
VRtg	AB-BIED600_Rev4_ASG_SP_ARtg_VRtg	Primary rated voltage		
Smvld	ABBIED600_Rev1_VSG_2_e	SmvID of incoming 9-2 stream	E	AB-BIED600:2014
Alm	ABBIED600_Rev1_SPS	Alarm		
Wrn	ABBIED600_Rev1_SPS_e	Warning	E	AB-BIED600:2014
RxSim	ABBIED600_Rev1_SPS_e	Receiving simulation	E	AB-BIED600:2014

6.2.99 LN: SVRESTVTR1 Name: TVTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Mode		
VRtg	AB-BIED600_Rev4_ASG_SP_ARtg_VRtg	Rated primary voltage		
Smvld	ABBIED600_Rev1_VSG_2_e	SmvID of incoming 9-2 stream	E	AB-BIED600:2014
Alm	ABBIED600_Rev1_SPS	Alarm		
Wrn	ABBIED600_Rev1_SPS_e	Warning	E	AB-BIED600:2014
RxSim	ABBIED600_Rev1_SPS_e	Receiving simulation	E	AB-BIED600:2014

6.2.100 LN: MNSPTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		

TmACrv	AB-BIED600_Rev2_CURVE_SG_setChar-act	Operating Curve Type		
StrVal	ABBIED600_Rev4_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev4_ASG_SG_i	Machine time Mult		
MinOpTmms	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	E	IEC 61850-7-4:2007
ARef	ABBIED600_Rev3_ASG_SP_i_e	Rated current (I _r) of the machine (used only in the IDMT)	E	ABBIED600:2014
StrDur	ABBIED600_Rev4_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
CITms	ABBIED600_Rev1_ING_SP_1_e	Cooling time	E	ABBIED600:2014
TmsRecEna	ABBIED600_Rev1_INS_e	Estimated time to reset of block re-start	E	ABBIED600:2014

6.2.101 LN: LOFLPTUC1 Name: PTUC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev4_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_Rev4_ASG_SG_i_e	Current setting/Start value low	E	IEC 61850-7-4:2007

StrDur	ABBIED600_Rev4_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.102 LN: JAMPTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_Of-fOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
StrVal	ABBIED600_Rev3_ASG_SP_i	Start value		
OpDITmms	ABBIED600_Rev1_ING_SP	Operate Delay Time		
RsDITmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev4_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.103 LN: STTPMSS1 Name: PMSS (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_Of-fOn_FD	BLOCK		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Signal to show that motor startup is in progress		
Op	ABBIED600_Rev1_ACT_simple	Operate/trip signal for stalling protection.		
MotStr	ABBIED600_Rev4_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		
OpMod-StUp	ABBIED600_Rev2_ENG_SP_Op-ModStUp_e	Motor start-up operation mode	E	ABBIED600:2014

StrOvDIT-mms	ABBIED600_Rev1_ING_SG_e	Time delay to check for completion of motor startup period	E	ABBIED600:2014
StrDur	ABBIED600_Rev4_MV_simple_i_e	Start time relative to the operate time for stall cond	E	ABBIED600:2014
EnaEmg-Str	ABBIED600_Rev1_SPS_e	Enable emergency start to disable lock of start motor	E	ABBIED600:2014
StlInd	ABBIED600_Rev1_SPS_e	Input signal for showing the motor is not stalling	E	ABBIED600:2014
BlkLOStr	ABBIED600_Rev1_SPS_e	Blocks lock out condition for restart of motor	E	ABBIED600:2014
InPosCls	ABBIED600_Rev1_SPS_e	Input showing the status of motor circuit breaker	E	ABBIED600:2014
TestPro	ABBIED600_Rev4_ENC_TestPro_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
MotStop	ABBIED600_Rev3_ASG_SP_i_e	Current limit to check for motor standstill condition	E	ABBIED600:2014

6.2.104 LN: STTPMRI1 Name: PMRI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Op	ABBIED600_Rev1_ACT_simple	Operate/trip signal for thermal stress.		
StrInh	ABBIED600_Rev1_SPS	Lock out condition for restart of motor.		
StrInhTmm	ABBIED600_Rev1_INS	Time left for restart when lockstart is enabled in minutes		
SetA	ABBIED600_Rev4_ASG_SG_i	Motor starting current		
SetTms	ABBIED600_Rev1_ING_SG	Motor starting time		
InhTmm	ABBIED600_Rev1_ING_SP_1	Time delay between consecutive startups		
StrUpCntRs	ABBIED600_Rev2_INC_control_int_e	Number of motor start-ups occurred	E	ABBIED600:2014,status-only,direct-with-normal-security
CntRedRte	ABBIED600_Rev3_ASG_SP_i_e	Start time counter reduction rate	E	ABBIED600:2014
EmgRedRte	ABBIED600_Rev3_ASG_SP_i_e	Start time reduction factor when emergency start is On	E	ABBIED600:2014

ThmStsPct	ABBIED600_Rev4_MV_simple_i_e	Thermal stress relative to set maximum thermal stress	E	ABBIED600:2014
TmsCum-StrUp	ABBIED600_Rev4_MV_simple_i_e	Cumulated start-up time in sec	E	ABBIED600:2014
TmsStrUp	ABBIED600_Rev4_MV_simple_i_e	Measured motor latest startup time in sec	E	ABBIED600:2014
CumLimTms	ABBIED600_Rev1_ING_SP_1_e	Cumulative time based restart inhibit limit	E	ABBIED600:2014
RsStrUpCnt	ABBIED600_Rev2_SPC_control_e	Reset number of motor start-ups counter	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.105 LN: PREVPTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_Of-fOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	PREVPTOC1		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev4_ASG_SG_i	Start value		
OpDITmms	ABBIED600_Rev1_ING_SG	Operate time delay		
StrDur	ABBIED600_Rev4_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	PREVPTOC1	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.106 LN: MPTTR1 Name: PTTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_Of-fOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
TmpRI	ABBIED600_Rev4_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_Rev4_ASG_SG_i	Alarm thermal value		
BlkThm	ABBIED600_Rev1_SPS	Restart inhibited		
ARef	ABBIED600_Rev3_ASG_SP_i_e	Rated current (FLC) of the motor	E	ABBIED600:2014
RsTmp	ABBIED600_Rev2_SPC_control_e	MPTR1 temperature	E	ABBIED600:2014,status-only,direct-with-normal-security
DropoutVal	ABBIED600_Rev4_ASG_SG_i	Restart thermal Val		
WghFact	ABBIED600_Rev4_ASG_SG_i_e	Weighting factor	E	ABBIED600:2014
OvIFact	ABBIED600_Rev4_ASG_SG_i_e	Overload factor (k)	E	ABBIED600:2014
NgSeqFact	ABBIED600_Rev4_ASG_SG_i_e	Heating effect factor for negative sequence current	E	ABBIED600:2014
EnvTmpSet	ABBIED600_Rev4_ASG_SG_i_e	Ambient temperature	E	ABBIED600:2014
IniTmp	ABBIED600_Rev3_ASG_SP_i_e	Initial thermal Val	E	ABBIED600:2014
EnvTmpMod	ABBIED600_Rev2_ENG_SG_EnvTmpMod_e	Mode of measuring ambient temperature	E	ABBIED600:2014
EnaEmgStr	ABBIED600_Rev1_SPS_e	Enable emergency start to disable lock of start motor	E	ABBIED600:2014
TmpUsed	ABBIED600_Rev4_MV_simple_i_e	The ambient temperature used in the calculation	E	ABBIED600:2014
TmpAmb	ABBIED600_Rev4_MV_simple_i_e	Ambient temperature	E	ABBIED600:2014
ThmLevStr	ABBIED600_Rev4_MV_simple_i_e	Thermal level at beginning of motor startup	E	ABBIED600:2014
ThmLevEnd	ABBIED600_Rev4_MV_simple_i_e	Thermal level at the end of motor startup situation	E	ABBIED600:2014
BlkThmRsTm	ABBIED600_Rev1_INS_e	Estimated time to reset of block restart	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	MPTR1	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.107 LN: ESMGAPC1 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Emergency start		
Op	ABBIED600_Rev1_ACT_simple	Operate		

StrVal	ABBIED600_Rev4_ASG_SG_i	Motor standstill A		
RqEmgStr	ABBIED600_Rev1_SPS_e	ST_EMERG_RQ	E	ABBIED600:2014
TstOutCmd	AB- BIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.108 LN: T2PTTR1 Name: PTTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_Of- fOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Tmp	ABBIED600_Rev4_MV_simple_i	TEMP		
TmpRI	ABBIED600_Rev4_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_Rev4_ASG_SG_i	Max temperature		
ConsTms1	ABBIED600_Rev1_ING_SG	Short time constant for thermal model		
ConsTms2	ABBIED600_Rev1_ING_SG	Long time constant for thermal model		
AlmVal	ABBIED600_Rev4_ASG_SG_i	Alarm temperature		
RsTmp	ABBIED600_Rev2_SPC_control_e	Reset temperature	E	ABBIED600:2014,status-only,direct-with-normal-security
BlkThm	ABBIED600_Rev1_SPS	Block reclose signal		
TmpUsed	ABBIED600_Rev4_MV_simple_i_e	The ambient temperature used in the calculation	E	ABBIED600:2014
TmpAmb	ABBIED600_Rev4_MV_simple_i_e	Ambient temperature	E	ABBIED600:2014
ARef	ABBIED600_Rev4_ASG_SG_i_e	Current reference for thermal model	E	ABBIED600:2014
EnvTmpSet	ABBIED600_Rev4_ASG_SG_i_e	Ambient temperature	E	ABBIED600:2014
IniTmp	ABBIED600_Rev3_ASG_SP_i_e	Initial temperature	E	ABBIED600:2014
RecTmpSet	ABBIED600_Rev4_ASG_SG_i_e	Temperature for reset of BLK_CLOSE after operate	E	ABBIED600:2014
TmpR	ABBIED600_Rev4_ASG_SG_i_e	Temperature reference for thermal model	E	ABBIED600:2014
TstOutCmd	AB- BIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

WghFact	ABBIED600_Rev4_ASG_SG_i_e	Weighting factor of the short time constant	E	ABBIED600:2014
OpTmp	ABBIED600_Rev4_ASG_SG_i_e	Operate temperature, percent value	E	ABBIED600:2014
OpTm	ABBIED600_Rev4_INS_Unit_e	Estimated time to operate	E	ABBIED600:2014
BlkThmRsTm	ABBIED600_Rev4_INS_Unit_e	Estimated time to deactivate InhRec	E	ABBIED600:2014

6.2.109 LN: TR2LPDIF1 Name: PDIF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Op	ABBIED600_Rev1_ACT_simple	Operate signal from low (stabilized) stage		
DifACIc	ABBIED600_Rev3_WYE_threephase_simple_i	Differential Current		
RstA	ABBIED600_Rev3_WYE_threephase_simple_i	Biasing Current		
LoSet	ABBIED600_Rev4_ASG_SG_i	Low operate value		
RstMod	ABBIED600_Rev3_ENG_SG_RstMod	Restraint mode		
Blk	ABBIED600_Rev1_SPS_simple	Blocks operate outputs from biased stage		
TestPro	ABBIED600_Rev4_ENC_TestPro_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
SpeScn2	ABBIED600_Rev4_ASG_SG_i_e	Slope section 2	E	ABBIED600:2014
EndScn2	ABBIED600_Rev4_ASG_SG_i_e	End section 2	E	ABBIED600:2014
SpeScn3	ABBIED600_Rev4_ASG_SG_i_e	Slope section 3	E	ABBIED600:2014
CTConnTyp	ABBIED600_Rev2_ENG_SP_CTConnTyp_e	CT connection type	E	ABBIED600:2014
Wnd1Typ	ABBIED600_Rev3_ENG_SP_Wnd1Typ_e	Winding 1 type	E	ABBIED600:2014
Wnd2Typ	ABBIED600_Rev3_ENG_SP_Wnd2Typ_e	Winding 2 type	E	ABBIED600:2014
ClkNum	ABBIED600_Rev2_ENG_SP_ClkNum_e	Phase shift	E	ABBIED600:2014
ZroAEIm	ABBIED600_Rev4_ENG_SP_ZroAEIm_e	Zro A elimination	E	ABBIED600:2014
MinWndTap	ABBIED600_Rev1_ING_SP_1_e	Min winding tap	E	ABBIED600:2014
Max-WndTap	ABBIED600_Rev1_ING_SP_1_e	Max winding tap	E	ABBIED600:2014
TapNom-LTC1	ABBIED600_Rev1_ING_SP_1_e	Tap nominal	E	ABBIED600:2014
TapWnd	ABBIED600_Rev2_ENG_SP_WndSel_e	Tapped winding	E	ABBIED600:2014
StepTap1	ABBIED600_Rev3_ASG_SP_i_e	Step of tap	E	ABBIED600:2014

HDBlk	ABBIED600_Rev1_SPG_SG_e	Harmonic deblock 2.	E	ABBIED600:2014
BlkWavSt	ABBIED600_Rev1_ACT_threephase_e	Status from waveform blocking	E	ABBIED600:2014
Blk2HSt	ABBIED600_Rev1_ACT_threephase_e	Status from 2nd harmonic restraint blocking	E	ABBIED600:2014
Blk5HSt	ABBIED600_Rev1_ACT_threephase_e	Status from 5th harmonic restraint blocking	E	ABBIED600:2014
ScyAComp	ABBIED600_Rev3_WYE_threephase_simple_i_e	Connection group compensated secondary current	E	ABBIED600:2014
PriAComp	ABBIED600_Rev3_WYE_threephase_simple_i_e	Connection group compensated primary current	E	ABBIED600:2014
AngPriAB	ABBIED600_Rev4_MV_simple_i_e	Curr ph angle A to B, winding 1	E	ABBIED600:2014
AngPriBC	ABBIED600_Rev4_MV_simple_i_e	Curr ph angle B to C, winding 1	E	ABBIED600:2014
AngPriCA	ABBIED600_Rev4_MV_simple_i_e	Curr ph angle C to A, winding 1	E	ABBIED600:2014
AngScyAB	ABBIED600_Rev4_MV_simple_i_e	Curr ph angle A to B, winding 2	E	ABBIED600:2014
AngScyBC	ABBIED600_Rev4_MV_simple_i_e	Curr ph angle B to C, winding 2	E	ABBIED600:2014
AngScyCA	ABBIED600_Rev4_MV_simple_i_e	Curr ph angle C to A, winding 2	E	ABBIED600:2014
AngPriScyA	ABBIED600_Rev4_MV_simple_i_e	Curr ph A winding 1 to 2 angle	E	ABBIED600:2014
AngPriScyB	ABBIED600_Rev4_MV_simple_i_e	Curr ph B winding 1 to 2 angle	E	ABBIED600:2014
AngPriScyC	ABBIED600_Rev4_MV_simple_i_e	Curr ph C winding 1 to 2 angle	E	ABBIED600:2014
CTRatCor1	ABBIED600_Rev3_ASG_SP_i_e	CT ratio correction, winding 1	E	ABBIED600:2014
CTRatCor2	ABBIED600_Rev3_ASG_SP_i_e	CT ratio correction, winding 2	E	ABBIED600:2014

6.2.110 LN: TR2H2PHAR1 Name: PHAR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_threephase	Start (active when restraint is needed)		
PhStr	ABBIED600_Rev4_ASG_SG_i	Start value 2.H		

AHRat	ABBIED600_Rev3_WYE_threephase_simple_i_e	2nd harm to fund ratio of diff curr	E	AB-BIED600:2014
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6.2.111 LN: TR2H5PHAR1 Name: PHAR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_threephase	Start (active when restraint is needed)		
PhStr	ABBIED600_Rev4_ASG_SG_i	Start value 5.H		
PhStop	ABBIED600_Rev4_ASG_SG_i	Stop value		
HDBlk	ABBIED600_Rev1_SPG_SG_e	Harmonic deblock 5.	E	AB-BIED600:2014
AHRat	ABBIED600_Rev3_WYE_threephase_simple_i_e	5th harm to fund ratio of diff curr	E	AB-BIED600:2014

6.2.112 LN: TR2HPDIF1 Name: PDIF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Op	ABBIED600_Rev1_ACT_simple	Operate signal from high (instantaneous) stage		
HiSet	ABBIED600_Rev4_ASG_SG_i	High operate value		
Blk	ABBIED600_Rev1_SPS_simple	Blocks operate outputs from instantaneous stage		
EnaHiSet	ABBIED600_Rev1_SPG_SG_e	Enable high set	E	AB-BIED600:2014

6.2.113 LN: LREFPDIF1 Name: PDIF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	LREFPNDIF1		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
DifACIc	ABBIED600_Rev3_WYE_res_simple_i	ID_COSPHI		
RstA	ABBIED600_Rev3_WYE_res_simple_i	IB		
LoSet	ABBIED600_Rev4_ASG_SG_i	Operate value		
MinOp-Tmms	ABBIED600_Rev1_ING_SG	Minimum Operate Time		
RstMod	ABBIED600_Rev3_ENG_SG_RstMod	Restraint mode		
RsDITmms	ABBIED600_Rev1_ING_SP_1	Reset Delay Time		

Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
StrDur	ABBIED600_Rev4_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	LREFPND1	E	ABBIED600:2014,status-only,direct-with-normal-security
CTConnTyp	ABBIED600_Rev2_ENG_SP_CTConnTyp_e	CT connection type	E	ABBIED600:2014
Blk2HSt	ABBIED600_Rev1_ACT_simple_e	2nd harmonic restraint	E	ABBIED600:2014

6.2.114 LN: UZPDIS1 Name: PDIS (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_Of-fOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
PoRch	ABBIED600_Rev4_ASG_SG_i	Radius of the origin centric circle		
OpDITmms	ABBIED600_Rev1_ING_SG	Operate delay time		
RsDITmms	ABBIED600_Rev1_ING_SP	Reset delay time		
AMeasMod	ABBIED600_Rev3_ENG_SP_Meas-Mod_e	Selects used measurement mode	E	ABBIED600:2014
ZMeasMod	ABBIED600_Rev2_ENG_SP_ZMeas-Mod_e	Measurement mode for impedance calculation	E	ABBIED600:2014
PhSelZClc	ABBIED600_Rev2_ENG_SP_VPhSel_e	Voltage phase selection	E	ABBIED600:2014
StrDur	ABBIED600_Rev4_MV_2_e	Start duration	E	ABBIED600:2014
TstOutCmd	ABBIED600_Rev20_ENC_TstOut_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.115 LN: UZMMXU1 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
ZPP	ABBIED600_Rev3_DEL_5_simpler_e	Phase to phase impedance	E	ABBIED600:2014

6.2.116 LN: GFCDIS1 Name: PDIS (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
PhStr	ABBIED600_Rev4_ASG_SG_i	Phase start value		
GndStr	ABBIED600_Rev4_ASG_SG_i	Ground start value		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod	Directional mode		
AngLod	ABBIED600_Rev4_ASG_SG_i	Angle for load area		
OpDITmms	ABBIED600_Rev1_ING_SG	Operate time delay		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
RisFwdLod	ABBIED600_Rev4_ASG_SG_i_e	Resistive reach for load area	E	ABBIED600:2014
RisRvLod	ABBIED600_Rev4_ASG_SG_i_e	Resistive phase reverse reach	E	ABBIED600:2014
Ris-GndFwdRch	ABBIED600_Rev4_ASG_SG_i_e	Resistive ground forward reach	E	ABBIED600:2014
RisGndRvRch	ABBIED600_Rev4_ASG_SG_i_e	Resistive ground reverse reach	E	ABBIED600:2014
RisPhFwdRch	ABBIED600_Rev4_ASG_SG_i_e	Resistive phase forward reach	E	ABBIED600:2014
RisPhRvRch	ABBIED600_Rev4_ASG_SG_i_e	Resistive phase reverse reach	E	ABBIED600:2014
FltLoop	ABBIED600_Rev5_ENS_FltLoop_e	Start signals for phases A, B and C, GFC	E	IEC 61850-7-4:2007
LodDsrMod	ABBIED600_Rev1_SPG_SG_e	Enable load discrimination	E	ABBIED600:2014
RelPPLoop	ABBIED600_Rev5_ENS_FltLoop_e	Release signals for PP/3P loops. GFC.	E	ABBIED600:2014
TestPro	ABBIED600_Rev4_ENC_TestPro_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
GndMod	ABBIED600_Rev1_SPS_simple_e	Network earthing method	E	ABBIED600:2014
RcdTrg	ABBIED600_Rev2_SPC_control_e	Recorded data trigg	E	IEC 61850-7-4:2007,status-only,direct-with-normal-security
RelPhLoop	ABBIED600_Rev5_ENS_FltLoop_e	Release signals for PE-loops, GFC	E	ABBIED600:2014

EFDet	ABBIED600_Rev1_SPS_simple_e	Indication of a single phase earth-fault, GFC	E	ABBIED600:2014
XcnDet	ABBIED600_Rev1_SPS_simple_e	Indication of a cross-country-fault (high imp. earthed), GFC	E	ABBIED600:2014
RcdRs	ABBIED600_Rev2_SPC_control_e	Recorded data reset	E	ABBIED600:2014,status-only,direct-with-normal-security
PhVMeas	ABBIED600_Rev2_ENG_SP_PhVMeas_e	Phase voltage measurement principle	E	ABBIED600:2014
SysGnd	ABBIED600_Rev1_ENG_SP_SysGnd_e	System grounding principle	E	ABBIED600:2014
PhPrfModHi	ABBIED600_Rev1_ENG_SP_PhPrfModHi_e	Phase preference mode for high impedance earthed network	E	ABBIED600:2014
PhPrfModLo	ABBIED600_Rev1_ENG_SP_PhPrfModLo_e	Loop selection mode for low impedance earthed network	E	ABBIED600:2014
ZMod	ABBIED600_Rev1_ENG_SP_ZMod_e	Impedance characteristic, underimpedance, PSL	E	ABBIED600:2014
ZChrModGnd	ABBIED600_Rev1_ENG_SP_ZChrMod_e	Impedance characteristic for PE-loops, zones	E	ABBIED600:2014
ZChrModPP	ABBIED600_Rev1_ENG_SP_ZChrMod_e	Impedance characteristic for PP/3P-loops, zones	E	ABBIED600:2014
EnaAStab	ABBIED600_Rev1_SPG_SP_e	EF current stabilization enabled	E	ABBIED600:2014
FactEFABal	ABBIED600_Rev3_ASG_SP_i_e	Residual current ratio for parallel line compensation	E	ABBIED600:2014
ZnTmMod	ABBIED600_Rev1_ENG_SP_ZnTmMod_e	Operate timer start mode, zones	E	ABBIED600:2014
PhSelMod	ABBIED600_Rev2_ENG_SG_PhSelMod_e	Phase selection method	E	ABBIED600:2014
EFDetMod	ABBIED600_Rev1_ENG_SG_EfDetMod_e	Earth-fault (EF) detection method	E	ABBIED600:2014
PhLoStr	ABBIED600_Rev4_ASG_SG_i_e	Phase current start value, voltage dep. over current, PSL	E	ABBIED600:2014

PhVPhSel	ABBIED600_Rev4_ASG_SG_i_e	PE-voltage start value, voltage dep. over current, PSL	E	ABBIED600:2014
PPVPhSel	ABBIED600_Rev4_ASG_SG_i_e	PP-voltage start value, voltage dep. over current, PSL	E	ABBIED600:2014
ZChrMod	ABBIED600_Rev1_ENG_SG_ZChrMod_e	Z Chr Mod Ph Sel GFC	E	ABBIED600:2014
XGndFwdRch	ABBIED600_Rev4_ASG_SG_i_e	React. reach in fwd. dir. for PE-loops, underimpedance, PSL	E	ABBIED600:2014
XGndRvRch	ABBIED600_Rev4_ASG_SG_i_e	React. reach in rev. dir. for PE-loops, underimpedance, PSL	E	ABBIED600:2014
XPhFwdRch	ABBIED600_Rev4_ASG_SG_i_e	React. reach in fwd. dir. for PP-loops, underimpedance, PSL	E	ABBIED600:2014
XPhRvRch	ABBIED600_Rev4_ASG_SG_i_e	React. reach in rev. dir. for PP-loops, underimpedance, PSL	E	ABBIED600:2014
GndOp1	ABBIED600_Rev4_ASG_SG_i_e	Basic start value for residual curr., EF-detection function	E	ABBIED600:2014
GndOpRef	ABBIED600_Rev4_ASG_SG_i_e	Transformer neutral curr. start val., EF-detection function	E	ABBIED600:2014
GndOp2	ABBIED600_Rev4_ASG_SG_i_e	Res. curr. start value for slope 2, EF-detection function	E	ABBIED600:2014
StabSpe1	ABBIED600_Rev4_ASG_SG_i_e	Slope 1 for res. curr. stabilization, EF-detection function	E	ABBIED600:2014
StabSpe2	ABBIED600_Rev4_ASG_SG_i_e	Slope 2 for res. current stab., EF-detection function	E	ABBIED600:2014
APhStabVal	ABBIED600_Rev4_ASG_SG_i_e	Phase current start value for slope 2, EF-detection function	E	ABBIED600:2014

GndOpXcn	ABBIED600_Rev4_ASG_SG_i_e	Residual current start value, XC-fault detection function	E	ABBIED600:2014
PPVValXcn	ABBIED600_Rev4_ASG_SG_i_e	PP-voltage start value, XC-fault detection function	E	ABBIED600:2014
XcnDITmms	ABBIED600_Rev1_ING_SG_e	Time delay for residual current, XC-fault detection function	E	ABBIED600:2014
ZMaxLod	ABBIED600_Rev4_ASG_SG_i_e	Maximum load impedance	E	ABBIED600:2014
BlkOp	ABBIED600_Rev1_SPS_simple_e	Block operate	E	ABBIED600:2014
SelActZn	ABBIED600_Rev1_ENG_SP_SelActZn_e	Select active zones	E	ABBIED600:2014

6.2.117 LN: GFCRDIR1 Name: RDIR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Dir	AB-BIED600_Rev1_ACD_threephase	Direction		
ChrAng	ABBIED600_Rev4_ASG_SG_i	Relay characteristic angle		
MinFwdAng	ABBIED600_Rev4_ASG_SG_i	Minimum forward angle		
MinRvAng	ABBIED600_Rev4_ASG_SG_i	Minimum reverse angle		
MaxFwdAng	ABBIED600_Rev4_ASG_SG_i	Maximum forward angle		
MaxRvAng	ABBIED600_Rev4_ASG_SG_i	Maximum reverse angle		
PolQty	AB-BIED600_Rev3_ENG_SG_PolQty	Polarization method, earth-fault directional function		
VMemTmms	AB-BIED600_Rev1_ING_SP_time_e	Voltage memory time	E	AB-BIED600:2014
VMemUsedSt	ABBIED600_Rev1_SPS_simple_e	Voltage memory in use status	E	AB-BIED600:2014

6.2.118 LN: DST1PDIS1 Name: PDIS (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_ENC_Mod_Of-fOn	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	General start signal, zone 1		
Op	ABBIED600_Rev1_ACT_simple	Operate signal, zone 1		
DirMod	AB-BIED600_Rev3_ENG_SG_Dir-Mod	Directional mode, zone 1		

PhDIMod	ABBIED600_Rev1_SPG_SG	Operate time delay multi-phase mode, zone 1		
PhDITmms	ABBIED600_Rev1_ING_SG	Time delay to operate of PP/3P-loops, zone 1		
GndDIMod	ABBIED600_Rev1_SPG_SG	Operate time delay for single phase ground mode, zone 1		
GndDITmms	ABBIED600_Rev1_ING_SG	Operate time delay for single phase ground faults, zone 1		
X1	ABBIED600_Rev4_ASG_SG_i	Positive sequence line (reach) reactance, zone1		
LinAng	ABBIED600_Rev4_ASG_SG_i	Line angle		
K0Fact	ABBIED600_Rev4_ASG_SG_i	Residual compensation factor magnitude, zone 1		
K0FactAng	ABBIED600_Rev4_ASG_SG_i	Residual compensation factor angle, zone 1		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Z1Mod	ABBIED600_Rev4_ASG_SG_i_e	Positive sequence reach, zone 1	E	ABBIED600:2014
PPLoopRis	ABBIED600_Rev4_MV_simple_i_e	PP/3P-loop resistance, zone 1	E	ABBIED600:2014
PPLoopX	ABBIED600_Rev4_MV_simple_i_e	PP/3P-loop reactance, zone 1	E	ABBIED600:2014
FltLoopZn	ABBIED600_Rev1_INS_e	Start signals for phases A, B and C, zone 1	E	ABBIED600:2014
DirRisZn	ABBIED600_Rev4_MV_simple_i_e	Resistance used in dir. eval., zone 1	E	ABBIED600:2014
DirReactZn	ABBIED600_Rev4_MV_simple_i_e	Reactance used in dir. eval., zone 1	E	ABBIED600:2014
PhLoopRis1	ABBIED600_Rev4_MV_simple_i_e	First PE-loop resistance, zone 1	E	ABBIED600:2014
PhLoopX1	ABBIED600_Rev4_MV_simple_i_e	First PE-loop reactance, zone 1	E	ABBIED600:2014
PhLoopRis2	ABBIED600_Rev4_MV_simple_i_e	Second PE-loop resistance, zone 1	E	ABBIED600:2014
PhLoopX2	ABBIED600_Rev4_MV_simple_i_e	Second PE-loop reactance, zone 1	E	ABBIED600:2014
PhReact	ABBIED600_Rev4_MV_simple_i_e	Phase to earth reactance in phase domain, zone 1	E	ABBIED600:2014
OpModGnd	ABBIED600_Rev1_SPG_SG_e	Enable PE-loop measurement, zone 1	E	ABBIED600:2014
OpModPP	ABBIED600_Rev1_SPG_SG_e	Enable PP/3P-loop measurement, zone 1	E	ABBIED600:2014
R1	ABBIED600_Rev4_ASG_SG_i_e	Positive sequence resistive reach, zone1	E	ABBIED600:2014
X1Rv	ABBIED600_Rev4_ASG_SG_i_e	Pos. seq. reactive reach in rev. dir., non-dir. zone 1	E	ABBIED600:2014

Z1Rv	ABBIED600_Rev4_ASG_SG_i_e	Positive sequence reach in rev. dir., non-dir. zone 1	E	ABBIED600:2014
MinRisPP	ABBIED600_Rev4_ASG_SG_i_e	Minimum resistive reach of PP/3P-loops, zone 1	E	ABBIED600:2014
MaxRisPP	ABBIED600_Rev4_ASG_SG_i_e	Maximum resistive reach of PP/3P-loops, zone 1	E	ABBIED600:2014
EnaLod-Comp	ABBIED600_Rev1_SPG_SG_e	Enable load compensation for PE-loops, zone 1	E	ABBIED600:2014
R0	ABBIED600_Rev4_ASG_SG_i_e	Zero sequence resistive reach, zone 1	E	ABBIED600:2014
X0	ABBIED600_Rev4_ASG_SG_i_e	Zero sequence reactive reach, zone 1	E	ABBIED600:2014
MinRisGnd	ABBIED600_Rev4_ASG_SG_i_e	Minimum resistive reach of PE-loops, zone 1	E	ABBIED600:2014
MaxRisGnd	ABBIED600_Rev4_ASG_SG_i_e	Maximum resistive reach of PE-loops, zone 1	E	ABBIED600:2014
TiltAng	ABBIED600_Rev4_ASG_SG_i_e	Tilt angle (positive value increases zone area), zone 1	E	ABBIED600:2014
ParLinComp	ABBIED600_Rev1_SPG_SG_e	Enable parallel line compensation for PE-loops, zone 1	E	ABBIED600:2014
Rm0	ABBIED600_Rev4_ASG_SG_i_e	Parallel line zero sequence mutual resistance, zone 1	E	ABBIED600:2014
Xm0	ABBIED600_Rev4_ASG_SG_i_e	Parallel line zero sequence mutual reactance, zone 1	E	ABBIED600:2014
ErrTiltAng	ABBIED600_Rev1_INS_e	Tilt angle error	E	ABBIED600:2014

6.2.119 LN: DST2PDIS1 Name: PDIS (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_Of-fOn	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	General start signal, zone 2		
Op	ABBIED600_Rev1_ACT_simple	Operate signal, zone 2		
DirMod	ABBIED600_Rev3_ENG_SG_Dir-Mod	Directional mode, zone 2		
PhDIMod	ABBIED600_Rev1_SPG_SG	Operate time delay multi-phase mode, zone 2		
PhDITmms	ABBIED600_Rev1_ING_SG	Time delay to operate of PP/3P-loops, zone 2		
GndDIMod	ABBIED600_Rev1_SPG_SG	Operate time delay for single phase ground mode, zone 2		
GndDITmms	ABBIED600_Rev1_ING_SG	Operate time delay for single phase ground faults, zone 2		
X1	ABBIED600_Rev4_ASG_SG_i	Positive sequence line (reach) reactance, zone2		

LinAng	ABBIED600_Rev4_ASG_SG_i	Positive sequence line angle, zone 2		
K0Fact	ABBIED600_Rev4_ASG_SG_i	Residual compensation factor magnitude, zone 2		
K0FactAng	ABBIED600_Rev4_ASG_SG_i	Residual compensation factor angle, zone 2		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Z1Mod	ABBIED600_Rev4_ASG_SG_i_e	Positive sequence reach, zone 2	E	ABBIED600:2014
FltLoopZn	ABBIED600_Rev1_INS_e	Start signals for phases A, B and C, zone 2	E	ABBIED600:2014
OpModGnd	ABBIED600_Rev1_SPG_SG_e	Enable PE-loop measurement, zone 2	E	ABBIED600:2014
OpModPP	ABBIED600_Rev1_SPG_SG_e	Enable optional phase sequence supervision for PP/3P-loops, zone 2	E	ABBIED600:2014
R1	ABBIED600_Rev4_ASG_SG_i_e	Positive sequence resistive reach, zone 2	E	ABBIED600:2014
X1Rv	ABBIED600_Rev4_ASG_SG_i_e	Pos. seq. reactive reach in rev. dir., non-dir. zone 2	E	ABBIED600:2014
Z1Rv	ABBIED600_Rev4_ASG_SG_i_e	Positive sequence reach in rev. dir., non-dir. zone 2	E	ABBIED600:2014
MinRisPP	ABBIED600_Rev4_ASG_SG_i_e	Minimum resistive reach of PP/3P-loops, zone 2	E	ABBIED600:2014
MaxRisPP	ABBIED600_Rev4_ASG_SG_i_e	Maximum resistive reach of PP/3P-loops, zone 2	E	ABBIED600:2014
EnaLod-Comp	ABBIED600_Rev1_SPG_SG_e	Enable load compensation for PE-loops, zone 2	E	ABBIED600:2014
R0	ABBIED600_Rev4_ASG_SG_i_e	Zero sequence resistive reach, zone 2	E	ABBIED600:2014
X0	ABBIED600_Rev4_ASG_SG_i_e	Zero sequence reactive reach, zone 2	E	ABBIED600:2014
MinRisGnd	ABBIED600_Rev4_ASG_SG_i_e	Minimum resistive reach of PE-loops, zone 2	E	ABBIED600:2014
MaxRisGnd	ABBIED600_Rev4_ASG_SG_i_e	Maximum resistive reach of PE-loops, zone 2	E	ABBIED600:2014
TiltAng	ABBIED600_Rev4_ASG_SG_i_e	Tilt angle (positive value increases zone area), zone 2	E	ABBIED600:2014
ParLinComp	ABBIED600_Rev1_SPG_SG_e	Enable parallel line compensation for PE-loops, zone 2	E	ABBIED600:2014
Rm0	ABBIED600_Rev4_ASG_SG_i_e	Parallel line zero sequence mutual resistance, zone 2	E	ABBIED600:2014
Xm0	ABBIED600_Rev4_ASG_SG_i_e	Parallel line zero sequence mutual reactance, zone 2	E	ABBIED600:2014
DirRisZn	ABBIED600_Rev4_MV_simple_i_e	Resistance used in dir. eval., zone 2	E	ABBIED600:2014
DirReactZn	ABBIED600_Rev4_MV_simple_i_e	Reactance used in dir. eval., zone 2	E	ABBIED600:2014

PhLoopRis1	ABBIED600_Rev4_MV_simple_i_e	First PE-loop resistance, zone 2	E	ABBIED600:2014
PhLoopX1	ABBIED600_Rev4_MV_simple_i_e	First PE-loop reactance, zone 2	E	ABBIED600:2014
PhLoopRis2	ABBIED600_Rev4_MV_simple_i_e	Second PE-loop resistance, zone 2	E	ABBIED600:2014
PhLoopX2	ABBIED600_Rev4_MV_simple_i_e	Second PE-loop reactance, zone 2	E	ABBIED600:2014
PPLoopRis	ABBIED600_Rev4_MV_simple_i_e	PP/3P-loop resistance, zone 2	E	ABBIED600:2014
PPLoopX	ABBIED600_Rev4_MV_simple_i_e	PP/3P-loop reactance, zone 2	E	ABBIED600:2014
PhReact	ABBIED600_Rev4_MV_simple_i_e	Phase to earth reactance in phase domain, zone 2	E	ABBIED600:2014

6.2.120 LN: DST3PDIS1 Name: PDIS (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_OffOn	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	General start signal, zone 3		
Op	ABBIED600_Rev1_ACT_simple	Operate signal, zone 3		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod	Directional mode, zone 3		
PhDIMod	ABBIED600_Rev1_SPG_SG	Operate time delay multi-phase mode, zone 3		
PhDITmms	ABBIED600_Rev1_ING_SG	Time delay to operate of PP/3P-loops, zone 3		
GndDIMod	ABBIED600_Rev1_SPG_SG	Operate time delay for single phase ground mode, zone 3		
GndDITmms	ABBIED600_Rev1_ING_SG	Operate time delay for single phase ground faults, zone 3		
X1	ABBIED600_Rev4_ASG_SG_i	Positive sequence line (reach) reactance, zone 3		
LinAng	ABBIED600_Rev4_ASG_SG_i	Positive sequence line angle, zone 3		
K0Fact	ABBIED600_Rev4_ASG_SG_i	Residual compensation factor magnitude, zone 3		
K0FactAng	ABBIED600_Rev4_ASG_SG_i	Residual compensation factor angle, zone 3		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Z1Mod	ABBIED600_Rev4_ASG_SG_i_e	Positive sequence reach, zone 3	E	ABBIED600:2014
FitLoopZn	ABBIED600_Rev1_INS_e	Start signals for phases A, B and C, zone 3	E	ABBIED600:2014

OpModGnd	ABBIED600_Rev1_SPG_SG_e	Enable PE-loop measurement, zone 3	E	ABBIED600:2014
OpModPP	ABBIED600_Rev1_SPG_SG_e	Enable optional phase sequence supervision for PP/3P-loops, zone 3	E	ABBIED600:2014
R1	ABBIED600_Rev4_ASG_SG_i_e	Positive sequence resistive reach, zone3	E	ABBIED600:2014
X1Rv	ABBIED600_Rev4_ASG_SG_i_e	Pos. seq. reactive reach in rev. dir., non-dir. zone 3	E	ABBIED600:2014
Z1Rv	ABBIED600_Rev4_ASG_SG_i_e	Positive sequence reach in rev. dir., non-dir. zone 3	E	ABBIED600:2014
MinRisPP	ABBIED600_Rev4_ASG_SG_i_e	Minimum resistive reach of PP/3P-loops, zone 3	E	ABBIED600:2014
MaxRisPP	ABBIED600_Rev4_ASG_SG_i_e	Maximum resistive reach of PP/3P-loops, zone 3	E	ABBIED600:2014
EnaLod-Comp	ABBIED600_Rev1_SPG_SG_e	Enable load compensation for PE-loops, zone 3	E	ABBIED600:2014
R0	ABBIED600_Rev4_ASG_SG_i_e	Zero sequence resistive reach, zone 3	E	ABBIED600:2014
X0	ABBIED600_Rev4_ASG_SG_i_e	Zero sequence reactive reach, zone 3	E	ABBIED600:2014
MinRisGnd	ABBIED600_Rev4_ASG_SG_i_e	Minimum resistive reach of PE-loops, zone 3	E	ABBIED600:2014
MaxRisGnd	ABBIED600_Rev4_ASG_SG_i_e	Maximum resistive reach of PE-loops, zone 3	E	ABBIED600:2014
TiltAng	ABBIED600_Rev4_ASG_SG_i_e	Tilt angle (positive value increases zone area), zone 3	E	ABBIED600:2014
ParLinComp	ABBIED600_Rev1_SPG_SG_e	Enable parallel line compensation for PE-loops, zone 3	E	ABBIED600:2014
Rm0	ABBIED600_Rev4_ASG_SG_i_e	Parallel line zero sequence mutual resistance, zone 3	E	ABBIED600:2014
Xm0	ABBIED600_Rev4_ASG_SG_i_e	Parallel line zero sequence mutual reactance, zone 3	E	ABBIED600:2014
DirRisZn	ABBIED600_Rev4_MV_simple_i_e	Resistance used in dir. eval., zone 3	E	ABBIED600:2014
DirReactZn	ABBIED600_Rev4_MV_simple_i_e	Reactance used in dir. eval., zone 3	E	ABBIED600:2014
PhLoopRis1	ABBIED600_Rev4_MV_simple_i_e	First PE-loop resistance, zone 3	E	ABBIED600:2014
PhLoopX1	ABBIED600_Rev4_MV_simple_i_e	First PE-loop reactance, zone 3	E	ABBIED600:2014
PhLoopRis2	ABBIED600_Rev4_MV_simple_i_e	Second PE-loop resistance, zone 3	E	ABBIED600:2014
PhLoopX2	ABBIED600_Rev4_MV_simple_i_e	Second PE-loop reactance, zone 3	E	ABBIED600:2014
PPLoopRis	ABBIED600_Rev4_MV_simple_i_e	PP/3P-loop resistance, zone 3	E	ABBIED600:2014
PPLoopX	ABBIED600_Rev4_MV_simple_i_e	PP/3P-loop reactance, zone 3	E	ABBIED600:2014

PhReact	ABBIED600_Rev4_MV_simple_i_e	Phase to earth reactance in phase domain, zone 3	E	ABBIED600:2014
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6.2.121 LN: DST4PDIS1 Name: PDIS (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_ENC_Mod_OfOn	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	General start signal, zone 4		
Op	ABBIED600_Rev1_ACT_simple	Operate signal, zone 4		
DirMod	AB-BIED600_Rev3_ENG_SG_Dir-Mod	Directional mode, zone 4		
PhDIMod	ABBIED600_Rev1_SPG_SG	Operate time delay multi-phase mode, zone 4		
PhDITmms	ABBIED600_Rev1_ING_SG	Time delay to operate of PP/3P-loops, zone 4		
GndDIMod	ABBIED600_Rev1_SPG_SG	Operate time delay for single phase ground mode, zone 4		
GndDITmms	ABBIED600_Rev1_ING_SG	Operate time delay for single phase ground faults, zone 4		
X1	ABBIED600_Rev4_ASG_SG_i	Positive sequence line (reach) reactance, zone 4		
LinAng	ABBIED600_Rev4_ASG_SG_i	Positive sequence line angle, zone 4		
K0Fact	ABBIED600_Rev4_ASG_SG_i	Residual compensation factor magnitude, zone 4		
K0FactAng	ABBIED600_Rev4_ASG_SG_i	Residual compensation factor angle, zone 4		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Z1Mod	ABBIED600_Rev4_ASG_SG_i_e	Positive sequence reach, zone 4	E	ABBIED600:2014
FitLoopZn	ABBIED600_Rev1_INS_e	Start signals for phases A, B and C, zone 4	E	ABBIED600:2014
OpModGnd	ABBIED600_Rev1_SPG_SG_e	Enable PE-loop measurement, zone 4	E	ABBIED600:2014
OpModPP	ABBIED600_Rev1_SPG_SG_e	Enable optional phase sequence supervision for PP/3P-loops, zone 4	E	ABBIED600:2014
R1	ABBIED600_Rev4_ASG_SG_i_e	Positive sequence resistive reach, zone4	E	ABBIED600:2014
X1Rv	ABBIED600_Rev4_ASG_SG_i_e	Pos. seq. reactive reach in rev. dir., non-dir. zone 4	E	ABBIED600:2014
Z1Rv	ABBIED600_Rev4_ASG_SG_i_e	Positive sequence reach in rev. dir., non-dir. zone 4	E	ABBIED600:2014

MinRisPP	ABBIED600_Rev4_ASG_SG_i_e	Minimum resistive reach of PP/3P-loops, zone 4	E	ABBIED600:2014
MaxRisPP	ABBIED600_Rev4_ASG_SG_i_e	Maximum resistive reach of PP/3P-loops, zone 4	E	ABBIED600:2014
EnaLod-Comp	ABBIED600_Rev1_SPG_SG_e	Enable load compensation for PE-loops, zone 4	E	ABBIED600:2014
R0	ABBIED600_Rev4_ASG_SG_i_e	Zero sequence resistive reach, zone 4	E	ABBIED600:2014
X0	ABBIED600_Rev4_ASG_SG_i_e	Zero sequence reactive reach, zone 4	E	ABBIED600:2014
MinRisGnd	ABBIED600_Rev4_ASG_SG_i_e	Minimum resistive reach of PE-loops, zone 4	E	ABBIED600:2014
MaxRisGnd	ABBIED600_Rev4_ASG_SG_i_e	Maximum resistive reach of PE-loops, zone 4	E	ABBIED600:2014
TiltAng	ABBIED600_Rev4_ASG_SG_i_e	Tilt angle (positive value increases zone area), zone 4	E	ABBIED600:2014
ParLinComp	ABBIED600_Rev1_SPG_SG_e	Enable parallel line compensation for PE-loops, zone 4	E	ABBIED600:2014
Rm0	ABBIED600_Rev4_ASG_SG_i_e	Parallel line zero sequence mutual resistance, zone 4	E	ABBIED600:2014
Xm0	ABBIED600_Rev4_ASG_SG_i_e	Parallel line zero sequence mutual reactance, zone 4	E	ABBIED600:2014
DirRisZn	ABBIED600_Rev4_MV_simple_i_e	Resistance used in dir. eval., zone 4	E	ABBIED600:2014
DirReactZn	ABBIED600_Rev4_MV_simple_i_e	Reactance used in dir. eval., zone 4	E	ABBIED600:2014
PhLoopRis1	ABBIED600_Rev4_MV_simple_i_e	First PE-loop resistance, zone 4	E	ABBIED600:2014
PhLoopX1	ABBIED600_Rev4_MV_simple_i_e	First PE-loop reactance, zone 4	E	ABBIED600:2014
PhLoopRis2	ABBIED600_Rev4_MV_simple_i_e	Second PE-loop resistance, zone 4	E	ABBIED600:2014
PhLoopX2	ABBIED600_Rev4_MV_simple_i_e	Second PE-loop reactance, zone 4	E	ABBIED600:2014
PPLoopRis	ABBIED600_Rev4_MV_simple_i_e	PP/3P-loop resistance, zone 4	E	ABBIED600:2014
PPLoopX	ABBIED600_Rev4_MV_simple_i_e	PP/3P-loop reactance, zone 4	E	ABBIED600:2014
PhReact	ABBIED600_Rev4_MV_simple_i_e	Phase to earth reactance in phase domain, zone 4	E	ABBIED600:2014

6.2.122 LN: DST5PDIS1 Name: PDIS (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_OfOn	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	General start signal, zone 5		

Op	ABBIED600_Rev1_ACT_simple	Operate signal, zone 5		
DirMod	AB-BIED600_Rev3_ENG_SG_Dir-Mod	Directional mode, zone 5		
PhDIMod	ABBIED600_Rev1_SPG_SG	Operate time delay multi-phase mode, zone 5		
PhDITmms	ABBIED600_Rev1_ING_SG	Time delay to operate of PP/3P-loops, zone 5		
GndDIMod	ABBIED600_Rev1_SPG_SG	Operate time delay for single phase ground mode, zone 5		
GndDITmms	ABBIED600_Rev1_ING_SG	Operate time delay for single phase ground faults, zone 5		
X1	ABBIED600_Rev4_ASG_SG_i	Positive sequence line (reach) reactance, zone 5		
LinAng	ABBIED600_Rev4_ASG_SG_i	Positive sequence line angle, zone 5		
K0Fact	ABBIED600_Rev4_ASG_SG_i	Residual compensation factor magnitude, zone 5		
K0FactAng	ABBIED600_Rev4_ASG_SG_i	Residual compensation factor angle, zone 5		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Z1Mod	ABBIED600_Rev4_ASG_SG_i_e	Positive sequence reach, zone 5	E	ABBIED600:2014
FltLoopZn	ABBIED600_Rev1_INS_e	Start signals for phases A, B and C, zone 5	E	ABBIED600:2014
OpModGnd	ABBIED600_Rev1_SPG_SG_e	Enable PE-loop measurement, zone 5	E	ABBIED600:2014
OpModPP	ABBIED600_Rev1_SPG_SG_e	Enable optional phase sequence supervision for PP/3P-loops, zone 5	E	ABBIED600:2014
R1	ABBIED600_Rev4_ASG_SG_i_e	Positive sequence resistive reach, zone5	E	ABBIED600:2014
X1Rv	ABBIED600_Rev4_ASG_SG_i_e	Pos. seq. reactive reach in rev. dir., non-dir. zone 5	E	ABBIED600:2014
Z1Rv	ABBIED600_Rev4_ASG_SG_i_e	Positive sequence reach in rev. dir., non-dir. zone 5	E	ABBIED600:2014
MinRisPP	ABBIED600_Rev4_ASG_SG_i_e	Minimum resistive reach of PP/3P-loops, zone 5	E	ABBIED600:2014
MaxRisPP	ABBIED600_Rev4_ASG_SG_i_e	Maximum resistive reach of PP/3P-loops, zone 5	E	ABBIED600:2014
EnaLod-Comp	ABBIED600_Rev1_SPG_SG_e	Enable load compensation for PE-loops, zone 5	E	ABBIED600:2014
R0	ABBIED600_Rev4_ASG_SG_i_e	Zero sequence resistive reach, zone 5	E	ABBIED600:2014
X0	ABBIED600_Rev4_ASG_SG_i_e	Zero sequence reactive reach, zone 5	E	ABBIED600:2014
MinRisGnd	ABBIED600_Rev4_ASG_SG_i_e	Minimum resistive reach of PE-loops, zone 5	E	ABBIED600:2014

MaxRisGnd	ABBIED600_Rev4_ASG_SG_i_e	Maximum resistive reach of PE-loops, zone 5	E	ABBIED600:2014
TiltAng	ABBIED600_Rev4_ASG_SG_i_e	Tilt angle (positive value increases zone area), zone 5	E	ABBIED600:2014
ParLinComp	ABBIED600_Rev1_SPG_SG_e	Enable parallel line compensation for PE-loops, zone 5	E	ABBIED600:2014
Rm0	ABBIED600_Rev4_ASG_SG_i_e	Parallel line zero sequence mutual resistance, zone 5	E	ABBIED600:2014
Xm0	ABBIED600_Rev4_ASG_SG_i_e	Parallel line zero sequence mutual reactance, zone 5	E	ABBIED600:2014
DirRisZn	ABBIED600_Rev4_MV_simple_i_e	Resistance used in dir. eval., zone 5	E	ABBIED600:2014
DirReactZn	ABBIED600_Rev4_MV_simple_i_e	Reactance used in dir. eval., zone 5	E	ABBIED600:2014
PhLoopRis1	ABBIED600_Rev4_MV_simple_i_e	First PE-loop resistance, zone 5	E	ABBIED600:2014
PhLoopX1	ABBIED600_Rev4_MV_simple_i_e	First PE-loop reactance, zone 5	E	ABBIED600:2014
PhLoopRis2	ABBIED600_Rev4_MV_simple_i_e	Second PE-loop resistance, zone 5	E	ABBIED600:2014
PhLoopX2	ABBIED600_Rev4_MV_simple_i_e	Second PE-loop reactance, zone 5	E	ABBIED600:2014
PPLoopRis	ABBIED600_Rev4_MV_simple_i_e	PP/3P-loop resistance, zone 5	E	ABBIED600:2014
PPLoopX	ABBIED600_Rev4_MV_simple_i_e	PP/3P-loop reactance, zone 5	E	ABBIED600:2014
PhReact	ABBIED600_Rev4_MV_simple_i_e	Phase to earth reactance in phase domain, zone 5	E	ABBIED600:2014

6.2.123 LN: BBPTRC1 Name: PTRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OfOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
TestPro	ABBIED600_Rev4_ENC_TestPro_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.124 LN: ZNAPDIF1 Name: PDIF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Op	ABBIED600_Rev1_ACT_threephase	Operate Zone A		

DifAClc	ABBIED600_Rev3_WYE_threephase_simple_i	Differential current		
RstA	ABBIED600_Rev3_WYE_threephase_simple_i	Restraint current		
LoSet	ABBIED600_Rev4_ASG_SG_i	Low operate value, percentage of the nominal current		
SpeScn2	ABBIED600_Rev4_ASG_SG_i_e	Characteristic slope	E	AB-BIED600:2014
OpEx	ABBIED600_Rev1_ACT_simple_e	External operate	E	AB-BIED600:2014
BlkIntnSt	ABBIED600_Rev1_ACT_threephase_e	Status from waveform blocking	E	AB-BIED600:2014

6.2.125 LN: ZNBPDIF1 Name: PDIF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Op	ABBIED600_Rev1_ACT_threephase	Operate Zone B		
DifAClc	ABBIED600_Rev3_WYE_threephase_simple_i	Differential current		
RstA	ABBIED600_Rev3_WYE_threephase_simple_i	Restraint current		
LoSet	ABBIED600_Rev4_ASG_SG_i	Low operate value, percentage of the nominal current		
SpeScn2	ABBIED600_Rev4_ASG_SG_i_e	Characteristic slope	E	AB-BIED600:2014
OpEx	ABBIED600_Rev1_ACT_simple_e	External operate	E	AB-BIED600:2014
BlkIntnSt	ABBIED600_Rev1_ACT_threephase_e	Status from waveform blocking	E	AB-BIED600:2014

6.2.126 LN: ZNCZPDIF1 Name: PDIF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Op	ABBIED600_Rev1_ACT_threephase	Operate Check zone		
DifAClc	ABBIED600_Rev3_WYE_threephase_simple_i	Differential current		
RstA	ABBIED600_Rev3_WYE_threephase_simple_i	Restraint current		
LoSet	ABBIED600_Rev4_ASG_SG_i	Low operate value, percentage of the nominal current		
SpeScn2	ABBIED600_Rev4_ASG_SG_i_e	Characteristic slope	E	AB-BIED600:2014
EnaZnChk	ABBIED600_Rev1_SPG_SP_e	Enable check zone	E	AB-BIED600:2014

6.2.127 LN: SFAPDIF1 Name: PDIF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Str	AB-BIED600_Rev1_ACD_threephase	Start SEF Zone A		
Op	AB-BIED600_Rev1_ACT_threephase	Operate SEF Zone A		
LoSet	ABBIED600_Rev4_ASG_SG_i	Low operate value, percentage of the nominal current		
MinOp-Tmms	ABBIED600_Rev1_ING_SG	Minimum operate time		
RsDITmms	ABBIED600_Rev1_ING_SP_1	Reset delay time		
MaxOpA	ABBIED600_Rev3_ASG_SP_i_e	Blocking limit for sensitive earth-fault characteristic	E	ABBIED600:2014
EnaEFPro	ABBIED600_Rev1_SPG_SP_e	Enable sensitive earth-fault protection	E	ABBIED600:2014
TrgEFPro	ABBIED600_Rev1_SPC_simple_e	Trigger earth-fault protection	E	ABBIED600:2014,status-only

6.2.128 LN: SFBPDIF1 Name: PDIF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Str	AB-BIED600_Rev1_ACD_threephase	Start SEF Zone B		
Op	AB-BIED600_Rev1_ACT_threephase	Operate SEF Zone B		
LoSet	ABBIED600_Rev4_ASG_SG_i	Low operate value, percentage of the nominal current		
MinOpTmms	ABBIED600_Rev1_ING_SG	Minimum operate time		
RsDITmms	ABBIED600_Rev1_ING_SP_1	Reset delay time		
MaxOpA	ABBIED600_Rev3_ASG_SP_i_e	Blocking limit for sensitive earth-fault characteristic	E	AB-BIED600:2014
EnaEFPro	ABBIED600_Rev1_SPG_SP_e	Enable sensitive earth-fault protection	E	AB-BIED600:2014

6.2.129 LN: ANOGAPC1 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_Of-fOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		

Op	ABBIED600_Rev1_ACT_simple	Operate		
AOp	ABBIED600_Rev1_ACT_full_e	Operate for current	E	ABBIED600:2014
PhVOp	ABBIED600_Rev1_ACT_full_e	Operate for voltage	E	ABBIED600:2014
TestPro	AB-BIED600_Rev4_ENC_TestPro_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
AnoWinCyc	ABBIED600_Rev1_ING_SP_1_e	Sliding window size in fundamental cycles for anomaly detection	E	ABBIED600:2014
AnoLevPhV	AB-BIED600_Rev5_ING_SP_Unit_e	Operate level of the latest to mean anomaly ratio for PhV	E	ABBIED600:2014
AnoLevResV	AB-BIED600_Rev5_ING_SP_Unit_e	Operate level of the latest to mean anomaly ratio for Res V	E	ABBIED600:2014
AnoLevA	AB-BIED600_Rev5_ING_SP_Unit_e	Operate level of the latest to mean anomaly ratio for A	E	ABBIED600:2014
AnoLevResA	AB-BIED600_Rev5_ING_SP_Unit_e	Operate level of the latest to mean anomaly ratio for Res A	E	ABBIED600:2014

6.2.130 LN: LBMMXU1 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
ZPs	ABBIED600_Rev4_CMV_S_1_e	Positive sequence impedance	E	ABBIED600:2014

6.2.131 LN: COL1PTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev4_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev4_ASG_SG_i	Time Dial Multiplier		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
NumPh	AB-BIED600_Rev4_ENG_SP_StrPhSel_Sub1_e	Number of phases required for operate activation	E	ABBIED600:2014
StrDur	ABBIED600_Rev4_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014

PkIAPhA	ABBIED600_Rev4_MV_simple_i_e	Peak value of integrated current phase A	E	ABBIED600:2014
PkIAPhB	ABBIED600_Rev4_MV_simple_i_e	Peak value of integrated current phase B	E	ABBIED600:2014
PkIAPhC	ABBIED600_Rev4_MV_simple_i_e	Peak value of integrated current phase C	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub3_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.132 LN: COL2PTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev4_ASG_SG_i	Start value		
OpDITmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1_e	Number of phases required for operate activation	E	ABBIED600:2014

6.2.133 LN: COLPTUC1 Name: PTUC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev4_ASG_SG_i	Start value		
OpDITmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
StrDur	ABBIED600_Rev4_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
InhRec	ABBIED600_Rev1_SPS_e	Inhibit reclose (status)	E	ABBIED600:2014
EnaUnCur	ABBIED600_Rev1_SPG_SP_e	Enable under current functionality	E	ABBIED600:2014
ReclnhMod	ABBIED600_Rev3_ENG_SP_TrOut-Mod_Sub1_e	Reconnection inhibit mode	E	ABBIED600:2014
ReclnhTms	ABBIED600_Rev1_ING_SG_e	Reclose inhibit time	E	ABBIED600:2014

LORs	ABBIED600_Rev2_SPC_control_e	Reset lockout inhibit reconnection	E	ABBIED600:2014,status-only,direct-with-normal-security
InPosCls	ABBIED600_Rev1_SPS_e	Input showing the status of capacitor circuit breaker	E	ABBIED600:2014

6.2.134 LN: CUB1PTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev4_ASG_SG_i	Alarm start value		
OpDITmms	ABBIED600_Rev1_ING_SG	Alarm delay time		
FailCnt	ABBIED600_Rev2_INC_control_int_e	Total number of capacitor element failures	E	ABBIED600:2014,status-only,direct-with-normal-security
CntBr1PhsA	ABBIED600_Rev2_INC_control_int_e	Capacitor element failures in branch1 of phase A	E	ABBIED600:2014,status-only,direct-with-normal-security
CntBr2PhsA	ABBIED600_Rev2_INC_control_int_e	Capacitor element failures in branch2 of phase A	E	ABBIED600:2014,status-only,direct-with-normal-security
CntBr1PhsB	ABBIED600_Rev2_INC_control_int_e	Capacitor element failures in branch1 of phase B	E	ABBIED600:2014,status-only,direct-with-normal-security
CntBr2PhsB	ABBIED600_Rev2_INC_control_int_e	Capacitor element failures in branch2 of phase B	E	ABBIED600:2014,status-only,direct-with-normal-security
CntBr1PhsC	ABBIED600_Rev2_INC_control_int_e	Capacitor element failures in branch1 of phase C	E	ABBIED600:2014,status-only,direct-with-normal-security
CntBr2PhsC	ABBIED600_Rev2_INC_control_int_e	Capacitor element failures in branch2 of phase C	E	ABBIED600:2014,status-only,direct-with-normal-security
CntRs	ABBIED600_Rev2_SPC_control_e	Reset all counters	E	ABBIED600:2014,status-only,direct-with-normal-security

FailCntLim	ABBIED600_Rev1_ING_SG_e	Maximum permissible element failures	E	ABBIED600:2014
NatCompEna	ABBIED600_Rev1_SPG_SG_e	Enable natural unbalance compensation	E	ABBIED600:2014
RcdUnb	ABBIED600_Rev2_SPC_control_e	Record natural Unbalance current	E	ABBIED600:2014,status-only,direct-with-normal-security
UnbAlmMod	ABBIED600_Rev2_ENG_SG_CubAlmMod_e	Alarm mode	E	ABBIED600:2014
FuLoct	ABBIED600_Rev2_ENG_SG_FuLoct_e	Capacitor bank fuse location	E	ABBIED600:2014
NatUnbCur	ABBIED600_Rev4_WYE_neut_simpler_angle_i_e	Natural unbalance current	E	ABBIED600:2014
CompUnbCur	ABBIED600_Rev4_WYE_neut_simpler_angle_i_e	Compensated unbalance current	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub4_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.135 LN: CUB2PTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG_setCharacteract_SP_setParABCE	Operating curve type		
StrVal	ABBIED600_Rev4_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev4_ASG_SG_i	Time dail multiplier		
MinOpTmms	ABBIED600_Rev1_ING_SP_1	Minimum operate time		
OpDITmms	ABBIED600_Rev1_ING_SG	Operate delay time		
RsDITmms	ABBIED600_Rev1_ING_SP_1	Reset delay time		
StrDur	ABBIED600_Rev4_MV_simple_i_e	Ratio of start time / operate time	E	ABBIED600:2014

6.2.136 LN: HCUB1PTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		

Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev4_ASG_SG_i	Alarm start value		
OpDITmms	ABBIED600_Rev1_ING_SG	Alarm delay time		
CompEnaPhsA	ABBIED600_Rev1_SPG_SG_e	Enable natural unbalance compensation ph A	E	ABBIED600:2014
CompEnaPhsB	ABBIED600_Rev1_SPG_SG_e	Enable natural unbalance compensation ph B	E	ABBIED600:2014
CompEnaPhsC	ABBIED600_Rev1_SPG_SG_e	Enable natural unbalance compensation ph C	E	ABBIED600:2014
UnbRcdPh	ABBIED600_Rev1_ENC_RcdUnbPh_e	Record natural Unbalance current	E	ABBIED600:2014,status-only,direct-with-normal-security
NatUnbCur	ABBIED600_Rev4_WYE_4_1_e	Natural unbalance current	E	ABBIED600:2014
CompUnbCur	ABBIED600_Rev4_WYE_4_1_e	Compensated unbalance current	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub4_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.137 LN: HCUB2PTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	ABBIED600_Rev2_CURVE_SG_setCharacteract_SP_setParABCE	Operating curve type		
StrVal	ABBIED600_Rev4_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev4_ASG_SG_i	Time dail multiplier		
MinOp-Tmms	ABBIED600_Rev1_ING_SP_1	Minimum operate time		
OpDITmms	ABBIED600_Rev1_ING_SG	Operate delay time		
RsDITmms	ABBIED600_Rev1_ING_SP_1	Reset delay time		
StrDur	ABBIED600_Rev4_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014

6.2.138 LN: SRC1PTOC1 Name: PTOC (ED2)

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

Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev4_ASG_SG_i	Start Value		
OpDIT-mms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
TunH-Num	ABBIED600_Rev1_ING_SG_e	Tuning Harmonic Number	E	ABBIED600:2014
ResoA	ABBIED600_Rev3_WYE_threephase_simple_i_e	Resonance Current	E	ABBIED600:2014
TestPro	AB-BIED600_Rev8_ENC_TestPro_Sub28_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

6.2.139 LN: SRC2PTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	AB-BIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behavior		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev4_ASG_SG_i	Start value		
OpDITmms	ABBIED600_Rev1_ING_SG	Operate Delay Time		
InReso	ABBIED600_Rev1_SPS_simple_e	Input signal from higher frequency resonance branch	E	AB-BIED600:2014

6.2.140 LN: SCHLCCH1 Name: LCCH (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Beh	ABBIED600_Rev5_ENS_beh	Physical Channel behavior		
ChLiv	ABBIED600_Rev1_SPS	Physical channel status		
ChLivP	ABBIED600_Rev1_SPS_e	Physical channel status	E	AB-BIED600:2014
ChLivM	ABBIED600_Rev1_SPS_e	Physical channel status	E	AB-BIED600:2014
ChLivL	ABBIED600_Rev1_SPS_e	Physical channel status	E	AB-BIED600:2014
ChLivR	ABBIED600_Rev1_SPS_e	Physical channel status	E	AB-BIED600:2014
LnkLiv	ABBIED600_Rev1_SPS_e	Link status	E	AB-BIED600:2014
LnkLivP	ABBIED600_Rev1_SPS_e	Link status	E	AB-BIED600:2014

LnkLivM	ABBIED600_Rev1_SPS_e	Link status	E	AB-BIED600:2014
LnkLivL	ABBIED600_Rev1_SPS_e	Link status	E	AB-BIED600:2014
LnkLivR	ABBIED600_Rev1_SPS_e	Link status	E	AB-BIED600:2014
PortMod	ABBIED600_Rev4_ENG_SP_Eth-PortMod_e	Ethernet port mode	E	AB-BIED600:2014
PortModP	ABBIED600_Rev4_ENG_SP_Eth-PortMod_e	Ethernet port mode	E	AB-BIED600:2014
PortModM	ABBIED600_Rev4_ENG_SP_Eth-PortMod_e	Ethernet port mode	E	AB-BIED600:2014

6.2.141 LN: RCHLCCH1 Name: LCCH (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Beh	ABBIED600_Rev5_ENS_beh	Physical Channel behavior		
ChLiv	ABBIED600_Rev1_SPS	Physical channel status of port A		
RedChLiv	ABBIED600_Rev1_SPS	Physical channel status of port B		
LnkLiv	ABBIED600_Rev1_SPS_e	Link status of port A	E	AB-BIED600:2014
RedLnkLiv	ABBIED600_Rev1_SPS_e	Link status of port B	E	AB-BIED600:2014
RedCfg	ABBIED600_Rev1_ENG_SP_ChRed-Kind_e	Redundant mode	E	SSC600:2018
BusCfg	ABBIED600_Rev1_ENG_SP_BsRed-Kind_e	Bus mode	E	SSC600:2018

6.2.142 LN: LLN0 Name: LLN0 (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On-TestBlockOff	Control		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Control		
NamPlt	ABBIED600_Rev2_LPL_CTRLDR_LNN0	Control		
Loc	ABBIED600_Rev1_SPS_retain	Local / Remote		
LockKey	ABBIED600_Rev1_SPS_simple	Local operation		
LocSta	ABBIED600_Rev1_SPC_retain	Station operation		status-only,direct-with-normal-security
GrRef	ABBIED600_Rev4_ORG_SP_1	GrRef		
MltLev	ABBIED600_Rev1_SPG_SP	Multiple levels		
CmdBlk	ABBIED600_Rev1_SPC_simple	Commands blocked		status-only
LockKeyHMI	ABBIED600_Rev3_ENS_LockKeyHMI_e	Control HMI	E	SSC600:2018

LockKeyOff	ABBIED600_Rev1_SPS_simple_e	Control disable	E	SSC600:2018
LockKeyLoc	ABBIED600_Rev1_SPS_simple_e	Control local	E	SSC600:2018
LockKeyRem	ABBIED600_Rev1_SPS_simple_e	Control remote	E	SSC600:2018
LockKeySta	ABBIED600_Rev1_SPS_simple_e	Control station	E	SSC600:2018
LockKeyAll	ABBIED600_Rev1_SPS_simple_e	Control all	E	SSC600:2018
LocRemMod	ABBIED600_Rev1_ENG_SP_LocRemMod_e	Control mode	E	SSC600:2018
StaLevSet	ABBIED600_Rev1_ENG_SP_StaLevSet_e	Station authority	E	SSC600:2018

6.2.143 LN: CBCSWI1 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OfOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS	Local operation		
OpCntRs	ABBIED600_Rev2_INC_control_int	Operation counter		status-only,direct-with-normal-security
Pos	ABBIED600_Rev9_DPC_control	Switch, general		status-only,direct-with-normal-security,sbo-with-enhanced-security
OpOpn	ABBIED600_Rev1_ACT_simple	Switch, general		
OpCls	ABBIED600_Rev1_ACT_simple	Switch, general		
SelOpn	ABBIED600_Rev1_SPS	Selection open switch		
SelCls	ABBIED600_Rev1_SPS	Selection close switch		
PosDIT-mms	ABBIED600_Rev1_ING_SP_1_e	Event delay	E	ABBIED600:2014
PosOpn	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit opn	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit cls	E	ABBIED600:2014
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	ABBIED600:2014
AdpPls	ABBIED600_Rev1_SPG_SP_e	Adaptive pulse	E	ABBIED600:2014
OpnEna	ABBIED600_Rev1_SPS_e	OPEN_ENAD	E	ABBIED600:2014
ClsEna	ABBIED600_Rev1_SPS_e	CLOSE_ENAD	E	ABBIED600:2014
InSynOk	ABBIED600_Rev1_SPS_e	SYNC OK	E	ABBIED600:2014
SynItlByps	ABBIED600_Rev1_SPS_e	SYNC_ITL_BYP	E	ABBIED600:2014

6.2.144 LN: CBXCBR1 Name: XCBR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS_simple	Local operation		

EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter		
Pos	ABBIED600_Rev4_DPC_simple	Switch position		status-only
BlkOpn	ABBIED600_Rev1_SPC_simple	Block opening		status-only
BlkCls	ABBIED600_Rev1_SPC_simple	Block closing		status-only
CBOpCap	ABBIED600_Rev2_ENS_CBOpCap	Circuit breaker operating capability		

6.2.145 LN: DCCIO1 Name: CILO (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
EnaOpn	ABBIED600_Rev1_SPS	Enable Open		
EnaCls	ABBIED600_Rev1_SPS	Enable Close		
ItlByps	ABBIED600_Rev1_SPS_e	ITL_BYPASS	E	ABBIED600:2014

6.2.146 LN: DCCSWI1 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_Of-fOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS	Local operation		
OpCntRs	ABBIED600_Rev2_INC_control_int	Operation counter		status-only,direct-with-normal-security
Pos	ABBIED600_Rev9_DPC_control	Switch, general		status-only,direct-with-normal-security,sbo-with-enhanced-security
OpOpn	ABBIED600_Rev1_ACT_simple	Switch, general		
OpCls	ABBIED600_Rev1_ACT_simple	Switch, general		
PosDIT-mms	ABBIED600_Rev1_ING_SP_1_e	Event delay	E	ABBIED600:2014
PosOpn	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit opn	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit cls	E	ABBIED600:2014
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	ABBIED600:2014
AdpPls	ABBIED600_Rev1_SPG_SP_e	Adaptive pulse	E	ABBIED600:2014
OpnEna	ABBIED600_Rev1_SPS_e	OPEN_ENAD	E	ABBIED600:2014
ClsEna	ABBIED600_Rev1_SPS_e	CLOSE_ENAD	E	ABBIED600:2014

6.2.147 LN: DCXSWI1 Name: XSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS_simple	Local operation		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter		

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

6.2.148 LN: ESCILO1 Name: CILO (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
EnaOpn	ABBIED600_Rev1_SPS	Enable Open		
EnaCls	ABBIED600_Rev1_SPS	Enable Close		
ItlByps	ABBIED600_Rev1_SPS_e	ITL_BYPASS	E	ABBIED600:2014

6.2.149 LN: ESCSWI1 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_Of-fOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS	Local operation		
OpCntRs	ABBIED600_Rev2_INC_control_int	Operation counter		status-only,direct-with-normal-security
Pos	ABBIED600_Rev9_DPC_control	Switch, general		status-only,direct-with-normal-security,sbo-with-enhanced-security
OpOpn	ABBIED600_Rev1_ACT_simple	Switch, general		
OpCls	ABBIED600_Rev1_ACT_simple	Switch, general		
PosDIT-mms	ABBIED600_Rev1_ING_SP_1_e	Event delay	E	ABBIED600:2014
PosOpn	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit opn	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit cls	E	ABBIED600:2014
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	ABBIED600:2014
AdpPls	ABBIED600_Rev1_SPG_SP_e	Adaptive pulse	E	ABBIED600:2014
OpnEna	ABBIED600_Rev1_SPS_e	OPEN_ENAD	E	ABBIED600:2014
ClsEna	ABBIED600_Rev1_SPS_e	CLOSE_ENAD	E	ABBIED600:2014

6.2.150 LN: ESXSWI1 Name: XSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS_simple	Local operation		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter		
Pos	ABBIED600_Rev4_DPC_simple	Switch position		status-only

BlkOpn	ABBIED600_Rev1_SPC_simple	Block opening		status-only
BlkCls	ABBIED600_Rev1_SPC_simple	Block closing		status-only
SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		
SwOpCap	ABBIED600_Rev1_ENS_SwOpCap	Disconnecter operating capability		

6.2.151 LN: DCSXSWI1 Name: XSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS_simple	Local operation		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter		
Pos	ABBIED600_Rev4_DPC_simple	Switch position		status-only
BlkOpn	ABBIED600_Rev1_SPC_simple	Block opening		status-only
BlkCls	ABBIED600_Rev1_SPC_simple	Block closing		status-only
SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		
SwOpCap	ABBIED600_Rev1_ENS_SwOpCap	Disconnecter operating capability		

6.2.152 LN: DCSCSWI1 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Pos	ABBIED600_Rev4_DPC_simple	Switch position		status-only
PosDITmms	ABBIED600_Rev1_ING_SP_1_e	Event delay	E	ABBIED600:2014
PosOpn	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit opn	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit cls	E	ABBIED600:2014
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	ABBIED600:2014

6.2.153 LN: ESSXSWI1 Name: XSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS_simple	Local operation		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter		
Pos	ABBIED600_Rev4_DPC_simple	Switch position		status-only
BlkOpn	ABBIED600_Rev1_SPC_simple	Block opening		status-only
BlkCls	ABBIED600_Rev1_SPC_simple	Block closing		status-only
SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		
SwOpCap	ABBIED600_Rev1_ENS_SwOpCap	Disconnecter operating capability		

6.2.154 LN: ESSCSWI1 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
Pos	ABBIED600_Rev4_DPC_simple	Switch position		status-only
PosDITmms	ABBIED600_Rev1_ING_SP_1_e	Event delay	E	ABBIED600:2014
PosOpn	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit opn	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit cls	E	ABBIED600:2014
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	ABBIED600:2014

6.2.155 LN: RDRE1 Name: RDRE (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
RcdTrg	ABBIED600_Rev2_SPC_control	Trig recording		status-only,direct-with-normal-security
MemClr	ABBIED600_Rev2_SPC_control	Disturbance records		status-only,direct-with-normal-security
RcdMade	ABBIED600_Rev1_SPS_simple	Recording made		
FltNum	ABBIED600_Rev1_INS	Number of recordings		
RcdStr	ABBIED600_Rev1_SPS_simple	Recording started		
MemUsed	ABBIED600_Rev1_INS	Rec. memory used		
PerTrgTms	ABBIED600_Rev1_ING_SP_time	Periodic trig time		
ExclTmms	ABBIED600_Rev1_ING_SP_time	Exclusion time		
RcdMod	ABBIED600_Rev1_ENG_SP_RcdMod	Operation mode		
RcdDltInd	ABBIED600_Rev1_SPS_simple_e	Recording deleted	E	ABBIED600:2014
RmnRcdCap	ABBIED600_Rev1_INS_e	Rem. amount of rec.	E	ABBIED600:2014
MemFullSt	ABBIED600_Rev1_SPS_simple_e	Memory full	E	ABBIED600:2014
OvWrRcdInd	ABBIED600_Rev1_SPS_simple_e	Overwrite of rec.	E	ABBIED600:2014
PreTrgLgn	ABBIED600_Rev1_ING_SP_1_e	Pre-trg length	E	ABBIED600:2014
RcdLen	ABBIED600_Rev1_ING_SP_1_e	Record length	E	ABBIED600:2014
StoRteSel	ABBSSC600_Rev2_ING_SP_ES-toRte_e	Storage rate	E	ABBIED600:2014
StoModPer	ABBIED600_Rev2_ENG_SP_ESto-Mod_e	Stor. mode periodic	E	ABBIED600:2014
StoModMan	ABBIED600_Rev2_ENG_SP_ESto-Mod_e	Stor. mode manual	E	ABBIED600:2014
PerTmRmn	ABBIED600_Rev1_INS_e	Time to trigger	E	ABBIED600:2014
PerTrgInd	ABBIED600_Rev1_SPS_simple_e	Periodic triggering	E	ABBIED600:2014

ManTrgInd	ABBIED600_Rev1_SPS_simple_e	Manual triggering	E	ABBIED600:2014
AddSMV	ABBIED600_Rev1_SPG_SP_e	Append SMV streams	E	ABBIED600:2014

6.2.156 LN: RADR1 Name: RADR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On-Off_NoBlk	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
ChTrg	ABBIED600_Rev1_SPS_simple	Channel triggered		
HiTrgLev	ABBIED600_Rev3_ASG_SP_i	High trigger level		
LoTrgLev	ABBIED600_Rev3_ASG_SP_i	Low trigger level		
ChSigSel	ABBIED600_Rev5_ENG_SP_RadrCh-Num_e	input	E	ABBIED600:2014
StoMod	ABBIED600_Rev2_ENG_SP_ESto-Mod_e	Storage mode	E	ABBIED600:2014
ExclTmRmn	ABBIED600_Rev1_INS_e	Exclusion time rem.	E	ABBIED600:2014

6.2.157 LN: RBDR1 Name: RBDR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev1_ENC_Mod_On-Off_NoBlk	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev5_ENS_beh	Behaviour		
ChTrg	ABBIED600_Rev1_SPS_simple	Channel triggered		
LevMod	ABBIED600_Rev2_ENG_SP_LevMod	Level trigger mode		
StoMod	ABBIED600_Rev2_ENG_SP_ESto-Mod_e	Storage mode	E	ABBIED600:2014
ExclTmRmn	ABBIED600_Rev1_INS_e	Exclusion time rem.	E	ABBIED600:2014
BinInSt	ABBIED600_Rev1_SPS_e	input	E	ABBIED600:2014

7 Enum type extensions

7.1 Enum types

7.1.1 ABBIED600_Rev1_CtlModelKind_StatusDirect

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

7.1.2 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

7.1.3 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

7.1.4 ABBIED600_Rev1_CtlModelKind_Status

Value	Description	Remarks
0	status-only	

7.1.5 ABBIED600_Rev1_SetSvMaxDI

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

7.1.6 ABBIED600_Rev1_BlkMod

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

7.1.7 ABBIED600_Rev1_HzSet

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

7.1.8 ABBIED600_Rev1_PhRotSet

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

7.1.9 ABBIED600_Rev1_PhOrdSet

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

7.1.10 ABBIED600_Rev1_DmdAvMod

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

7.1.11 ABBIED600_Rev1_dmdltrv

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

7.1.12 ABBIED600_Rev1_ModRemCtl

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

7.1.13 ABBIED600_Rev4_Languages

Value	Description	Remarks
1	English (us,iec)	Language selection, Language selection
2	English (us,ansi)	Language selection, Language selection

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

7.1.14 ABBIED600_Rev4_LanguageFiles

Value	Description	Remarks
1	en-US-IEC	Language files,Name of the language files
2	en-US-ANSI	Language files,Name of the language files
3	zh-CN-IEC	Language files,Name of the language files
4	de-DE-IEC	Language files,Name of the language files
5	sv-SE-IEC	Language files,Name of the language files
6	es-ES-IEC	Language files,Name of the language files

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

7.1.15 ABBIED600_Rev1_FormatTime

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

7.1.16 ABBIED600_Rev1_FormatDate

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

6	YYYY-MM-DD	Date format,Date format
7	YYYY-DD-MM	Date format,Date format
8	YYYY/DD/MM	Date format,Date format

7.1.17 ABBIED600_Rev1_NamingConvention

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

7.1.18 ABBIED600_Rev3_DefaultView

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

7.1.19 ABBIED600_Rev2_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
4	Active secure only	Web HMI mode,Web HMI functionality
5	Secure station	Web HMI mode,Web HMI functionality

7.1.20 ABBIED600_Rev1_SLDSymbolFormat

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

7.1.21 ABBIED600_Rev1_InUseMod

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

7.1.22 ABBIED600_Rev1_SetVsb

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

7.1.23 ABBIED600_Rev1_Enable

Value	Description	Remarks
1	Disable	Enable,Enabling server 1

2	Enable	Enable,Enabling server 1
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7.1.24 ABBIED600_Rev1_UalCommConnTyp

Value	Description	Remarks
0	UDP	Connection Type,connection type of server 1
1	TCP	Connection Type,connection type of server 1
2	TCP-TLS	Connection Type,connection type of server 1

7.1.25 ABBIED600_Rev1_whmiLogonPageKind

Value	Description	Remarks
0	off	Web HMI logon page mode,Specifies what is shown on logon page before user has logged in
1	annuncia- tor	Web HMI logon page mode,Specifies what is shown on logon page before user has logged in
2	dashboard	Web HMI logon page mode,Specifies what is shown on logon page before user has logged in
3	both	Web HMI logon page mode,Specifies what is shown on logon page before user has logged in

7.1.26 ABBIED600_Rev11_AuthAcs

Value	Description	Remarks
0	No activity	User access,User access
1320	Downloaded/wrote configuration successfully	User access,User access
1420	Download/writing configuration failed	User access,User access
1520	Software updated successfully	User access,User access
1610	Firmware change fail	User access,User access
4	Attached to retrofit test case	User access,User access
5	Removed from retrofit test case	User access,User access
10	Setting group remote	User access,User access
11	Setting group local	User access,User access
20	Control remote	User access,User access
21	Control local	User access,User access
22	Test on	User access,User access
23	Test off	User access,User access
24	Reset trips	User access,User access
30	Setting commit	User access,User access
1380	Parameter changed successfully	User access,User access
1360	Viewed parameter value successfully	User access,User access
33	Time change	User access,User access
40	Audit log access	User access,User access
1110	Log-in successful	User access,User access
1130	Log-in failed - Wrong credentials	User access,User access
1170	Log-in failed 3 times	User access,User access
1210	Log-out (user logged out)	User access,User access

1220	Log-out by user inactivity (timeout)	User access,User access
2210	User password changed successfully	User access,User access
2220	Change of user password failed	User access,User access
2150	Change of user password failed	User access,User access
51	Password/id creation	User access,User access
52	Password/id deletion	User access,User access
5110	Firmware Reset	User access,User access
5140	Software reset	User access,User access
61	Audit overflow	User access,User access
5270	System startup	User access,User access
1370	Viewed Security Event logs successfully	User access,User access
2110	User account created successfully	User access,User access
2120	User account deleted successfully	User access,User access
2180	New role created successfully	User access,User access
2190	Role deleted successfully	User access,User access
8020	Date and time set successfully	User access,User access
16030	System startup	User access,User access
9010	Flooding attack detected	User access,User access
70	Violation remote	User access,User access
71	Violation local	User access,User access
7310	Hardware change detected	User access,User access
6110	Test Mode started successfully	User access,User access
6120	Test Mode ended successfully	User access,User access
6130	Control operation performed successfully	User access,User access
6140	Signal forced - value changed successfully	User access,User access
13520	Certificates transferred to the device successfully	User access,User access
14520	Failed to transfer certificates to the device	User access,User access
6220	Time Synchronized successfully	User access,User access
6320	Time Synchronization failed	User access,User access

7.1.27 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

7.1.28 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

7.1.29 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

7.1.30 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

7.1.31 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
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7.1.32 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

7.1.33 ABBIED600_Rev1_PTPTmAcc

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

7.1.34 ABBIED600_Rev1_PTPTmAnnMod

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

7.1.35 ABBIED600_Rev1_PTPTmProfMod

Value	Description	Remarks
1	P2P Default 1588-2008	PTP profile,PTP profile mode
2	Power profile C37.238-2011	PTP profile,PTP profile mode

7.1.36 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

7.1.37 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

7.1.38 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

7.1.39 ABBIED600_Rev1_SenInMod

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

7.1.40 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

7.1.41 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

7.1.42 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

7.1.43 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

7.1.44 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

7.1.45 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

7.1.46 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

7.1.47 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

7.1.48 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

7.1.49 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

7.1.50 ABBIED600_Rev1_OpModComp

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

7.1.51 ABBIED600_Rev3_TestSpvnKind

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

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

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

7.1.52 ABBIED600_Rev1_TrvClcMod

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

7.1.53 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

7.1.54 ABBIED600_Rev1_DefHzSel

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

7.1.55 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

7.1.56 ABBIED600_Rev1_PwrMeasMod

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

7.1.57 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)

7.1.58 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

7.1.59 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

7.1.60 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

7.1.61 ABBIED600_Rev5_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
57	Activate AS_CONFLICT	DARREC1,Test control for outputs
58	Deactive AS_CONFLICT	DARREC1,Test control for outputs
59	Activate LBDG	DARREC1,Test control for outputs
60	Deactive LBDG	DARREC1,Test control for outputs
61	Activate LBLG	DARREC1,Test control for outputs
62	Deactive LBLG	DARREC1,Test control for outputs
63	Activate DBLG	DARREC1,Test control for outputs
64	Deactive DBLG	DARREC1,Test control for outputs
65	Activate DBDG	DARREC1,Test control for outputs
66	Deactive DBDG	DARREC1,Test control for outputs
67	Activate SYNC_INPRO	DARREC1,Test control for outputs
68	Deactive SYNC_INPRO	DARREC1,Test control for outputs
69	Activate SYNC_OK	DARREC1,Test control for outputs
70	Deactive SYNC_OK	DARREC1,Test control for outputs
71	Activate MATCH_INPRO	DARREC1,Test control for outputs
72	Deactive MATCH_INPRO	DARREC1,Test control for outputs
73	Activate MATCH_OK	DARREC1,Test control for outputs
74	Deactive MATCH_OK	DARREC1,Test control for outputs
75	Activate CL_CB_CMD	DARREC1,Test control for outputs
76	Deactive CL_CB_CMD	DARREC1,Test control for outputs
77	Activate CMD_FAIL_AL	DARREC1,Test control for outputs
78	Deactive CMD_FAIL_AL	DARREC1,Test control for outputs
79	Activate CL_FAIL_AL	DARREC1,Test control for outputs
80	Deactive CL_FAIL_AL	DARREC1,Test control for outputs
81	Activate RAISE_U	DARREC1,Test control for outputs
82	Deactive RAISE_U	DARREC1,Test control for outputs
83	Activate LOWER_U	DARREC1,Test control for outputs
84	Deactive LOWER_U	DARREC1,Test control for outputs
85	Activate RAISE_F	DARREC1,Test control for outputs

86	Deactive RAISE_F	DARREC1,Test control for outputs
87	Activate LOWER_F	DARREC1,Test control for outputs
88	Deactive LOWER_F	DARREC1,Test control for outputs
89	Activate GOV_DROOP	DARREC1,Test control for outputs
90	Deactive GOV_DROOP	DARREC1,Test control for outputs
91	Activate AVR_DROOP	DARREC1,Test control for outputs
92	Deactive AVR_DROOP	DARREC1,Test control for outputs

7.1.62 ABBIED600_Rev1_OpModSC

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

7.1.63 ABBIED600_Rev2_OpModCtrl

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

7.1.64 ABBIED600_Rev1_EnergSt

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

7.1.65 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

7.1.66 ABBIED600_Rev2_OpQtySel

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

7.1.67 ABBIED600_Rev1_EFAIg

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

2	Load modelling	EF algorithm Sel, Selection for PhE-loop calculation algorithm
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7.1.68 ABBIED600_Rev1_EFAIgASel

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

7.1.69 ABBIED600_Rev9_TestProRIKind

Value	Description	Remarks
0	Reset	SCEFRFLO1, Test control for outputs
1	Activate OPERATE	SCEFRFLO1, Test control for outputs
2	Deactive OPERATE	SCEFRFLO1, Test control for outputs
3	Activate CB_FAULT_AL	SCEFRFLO1, Test control for outputs
4	Deactive CB_FAULT_AL	SCEFRFLO1, Test control for outputs
5	Activate TRBU	SCEFRFLO1, Test control for outputs
6	Deactive TRBU	SCEFRFLO1, Test control for outputs
7	Activate TRRET	SCEFRFLO1, Test control for outputs
8	Deactive TRRET	SCEFRFLO1, Test control for outputs
9	Activate BLK2H	SCEFRFLO1, Test control for outputs
10	Deactive BLK2H	SCEFRFLO1, Test control for outputs
11	Activate BLK2H_A	SCEFRFLO1, Test control for outputs
12	Deactive BLK2H_A	SCEFRFLO1, Test control for outputs
13	Activate BLK2H_B	SCEFRFLO1, Test control for outputs
14	Deactive BLK2H_B	SCEFRFLO1, Test control for outputs
15	Activate BLK2H_C	SCEFRFLO1, Test control for outputs
16	Deactive BLK2H_C	SCEFRFLO1, Test control for outputs
17	Activate TRIP	SCEFRFLO1, Test control for outputs
18	Deactive TRIP	SCEFRFLO1, Test control for outputs
19	Activate CL_LKOUT	SCEFRFLO1, Test control for outputs
20	Deactive CL_LKOUT	SCEFRFLO1, Test control for outputs
21	Activate OPR_Z_EXTN	SCEFRFLO1, Test control for outputs
22	Deactive OPR_Z_EXTN	SCEFRFLO1, Test control for outputs
23	Activate OPR_IRV	SCEFRFLO1, Test control for outputs
24	Deactive OPR_IRV	SCEFRFLO1, Test control for outputs
25	Activate OPR_WEI	SCEFRFLO1, Test control for outputs
26	Deactive OPR_WEI	SCEFRFLO1, Test control for outputs
27	Activate ECHO	SCEFRFLO1, Test control for outputs
28	Deactive ECHO	SCEFRFLO1, Test control for outputs
29	Activate CR	SCEFRFLO1, Test control for outputs
30	Deactive CR	SCEFRFLO1, Test control for outputs
31	Activate CS	SCEFRFLO1, Test control for outputs
32	Deactive CS	SCEFRFLO1, Test control for outputs
33	Activate CRL	SCEFRFLO1, Test control for outputs

34	Deactive CRL	SCEFRFLO1,Test control for outputs
35	Activate LCG	SCEFRFLO1,Test control for outputs
36	Deactive LCG	SCEFRFLO1,Test control for outputs
37	Activate OPR_LOSSLOAD	SCEFRFLO1,Test control for outputs
38	Deactive OPR_LOSSLOAD	SCEFRFLO1,Test control for outputs
39	Activate ALARM	SCEFRFLO1,Test control for outputs
40	Deactive ALARM	SCEFRFLO1,Test control for outputs
41	Activate CS_PRM	SCEFRFLO1,Test control for outputs
42	Deactive CS_PRM	SCEFRFLO1,Test control for outputs
43	Act. CS_BLOCKING	SCEFRFLO1,Test control for outputs
44	Deact. CS_BLOCKING	SCEFRFLO1,Test control for outputs
45	Act. CS_INTER_TR	SCEFRFLO1,Test control for outputs
46	Deact. CS_INTER_TR	SCEFRFLO1,Test control for outputs
47	Activate RELEASE	SCEFRFLO1,Test control for outputs
48	Deactive RELEASE	SCEFRFLO1,Test control for outputs
49	Activate SWING_OP	SCEFRFLO1,Test control for outputs
50	Deactive SWING_OP	SCEFRFLO1,Test control for outputs
51	Activate SWING	SCEFRFLO1,Test control for outputs
52	Deactive SWING	SCEFRFLO1,Test control for outputs
53	Activate OSB	SCEFRFLO1,Test control for outputs
54	Deactive OSB	SCEFRFLO1,Test control for outputs
55	Activate OSB_Z2	SCEFRFLO1,Test control for outputs
56	Deactive OSB_Z2	SCEFRFLO1,Test control for outputs
57	Activate OPR_TIE_A	SCEFRFLO1,Test control for outputs
58	Deactive OPR_TIE_A	SCEFRFLO1,Test control for outputs
59	Activate OPR_TIE_B	SCEFRFLO1,Test control for outputs
60	Deactivate OPR_TIE_B	SCEFRFLO1,Test control for outputs
61	Activate STOP_ENGINE	SCEFRFLO1,Test control for outputs
62	DeActivate STOP_ENGINE	SCEFRFLO1,Test control for outputs
63	Activate DE_EXCITE	SCEFRFLO1,Test control for outputs
64	Deactive DE_EXCITE	SCEFRFLO1,Test control for outputs
65	Activate PRE_TRIP	SCEFRFLO1,Test control for outputs
66	DeActivate PRE_TRIP	SCEFRFLO1,Test control for outputs
67	Activate FLT_DETECTED	SCEFRFLO1,Test control for outputs
68	DeActivate FLT_DETECTED	SCEFRFLO1,Test control for outputs
69	Activate OV_FUEL_FLT	SCEFRFLO1,Test control for outputs
70	Deactive OV_FUEL_FLT	SCEFRFLO1,Test control for outputs
71	Activate UN_FUEL_FLT	SCEFRFLO1,Test control for outputs
72	DeActivate UN_FUEL_FLT	SCEFRFLO1,Test control for outputs
73	Activate OV_EXCT_FLT	SCEFRFLO1,Test control for outputs
74	DeActivate OV_EXCT_FLT	SCEFRFLO1,Test control for outputs
75	Activate UN_EXCT_FLT	SCEFRFLO1,Test control for outputs

76	Deactive UN_EXCT_FLT	SCEFRFLO1,Test control for outputs
77	Activate GCB_TRP_FAIL	SCEFRFLO1,Test control for outputs
78	Deactivate GCB_TRP_FAIL	SCEFRFLO1,Test control for outputs
79	Activate TIE_TRP_FAIL	SCEFRFLO1,Test control for outputs
80	DeActivate TIE_TRP_FAIL	SCEFRFLO1,Test control for outputs
81	Activate FUEL_RCK_FLT	SCEFRFLO1,Test control for outputs
82	Deactive FUEL_RCK_FLT	SCEFRFLO1,Test control for outputs
83	Activate I_EXCT_FLT	SCEFRFLO1,Test control for outputs
84	DeActivate I_EXCT_FLT	SCEFRFLO1,Test control for outputs
85	Activate TEST_MOD_STS	SCEFRFLO1,Test control for outputs
86	DeActivate TEST_MOD_STS	SCEFRFLO1,Test control for outputs
87	Activate INT_BLKD	SCEFRFLO1,Test control for outputs
88	Deactive INT_BLKD	SCEFRFLO1,Test control for outputs
89	Activate EXTERNAL_FLT	SCEFRFLO1,Test control for outputs
90	DeActivate EXTERNAL_FLT	SCEFRFLO1,Test control for outputs
91	Activate START	SCEFRFLO1,Test control for outputs
92	Deactive START	SCEFRFLO1,Test control for outputs
93	Activate CLS_RETRY	SCEFRFLO1,Test control for outputs
94	Deactive CLS_RETRY	SCEFRFLO1,Test control for outputs
95	Activate CLS_RETRY_A	SCEFRFLO1,Test control for outputs
96	Deactive CLS_RETRY_A	SCEFRFLO1,Test control for outputs
97	Activate CLS_RETRY_B	SCEFRFLO1,Test control for outputs
98	Deactive CLS_RETRY_B	SCEFRFLO1,Test control for outputs
99	Activate CLS_RETRY_C	SCEFRFLO1,Test control for outputs
100	Deactive CLS_RETRY_C	SCEFRFLO1,Test control for outputs
101	Activate ZONE_A	SCEFRFLO1,Test control for outputs
102	Deactive ZONE_A	SCEFRFLO1,Test control for outputs
103	Activate ZONE_B	SCEFRFLO1,Test control for outputs
104	Deactive ZONE_B	SCEFRFLO1,Test control for outputs
105	Activate ALARM_A	SCEFRFLO1,Test control for outputs
106	Deactive ALARM_A	SCEFRFLO1,Test control for outputs
107	Activate ALARM_B	SCEFRFLO1,Test control for outputs
108	Deactive ALARM_B	SCEFRFLO1,Test control for outputs
109	Activate LB_FORWARD	SCEFRFLO1,Test control for outputs
110	Deactive LB_FORWARD	SCEFRFLO1,Test control for outputs
111	Activate LB_REVERSE	SCEFRFLO1,Test control for outputs
112	Deactive LB_REVERSE	SCEFRFLO1,Test control for outputs
113	Activate SWING_ST	SCEFRFLO1,Test control for outputs
114	Deactive SWING_ST	SCEFRFLO1,Test control for outputs
115	Activate PSB	SCEFRFLO1,Test control for outputs
116	Deactive PSB	SCEFRFLO1,Test control for outputs

7.1.70 ABBIED600_Rev1_PhVMeas

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

7.1.71 ABBIED600_Rev1_VCrSel

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

7.1.72 ABBIED600_Rev1_DmdWinMod

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

7.1.73 ABBIED600_Rev2_PhSv

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

7.1.74 ABBIED600_Rev1_OpModPh

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

7.1.75 ABBIED600_Rev2_VVaTyp

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

7	Swell+dip+Int	Variation enable,Enable variation type
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7.1.76 ABBIED600_Rev1_TrModPQ

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

7.1.77 ABBIED600_Rev1_ObsPerSel

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

7.1.78 ABBIED600_Rev1_TestOthKind

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

7.1.79 ABBIED600_Rev3_OpModSetATCC

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

7.1.80 ABBIED600_Rev1_ManBlkType

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

7.1.81 ABBIED600_Rev1_TimerOn

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

7.1.82 ABBIED600_Rev1_OpModATCC

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

7.1.83 ABBIED600_Rev1_AlmReas

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

7.1.84 ABBIED600_Rev1_FllwFlt

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

7.1.85 ABBIED600_Rev1_ParUnits

Value	Description	Remarks
0	No parall units	PAR_UNIT_MCC,Parallel units included in MCC calculation
1	Trafo 1	PAR_UNIT_MCC,Parallel units included in MCC calculation
2	Trafo 2	PAR_UNIT_MCC,Parallel units included in MCC calculation
3	Trafos 1 and 2	PAR_UNIT_MCC,Parallel units included in MCC calculation
4	Trafo 3	PAR_UNIT_MCC,Parallel units included in MCC calculation
5	Trafos 1 and 3	PAR_UNIT_MCC,Parallel units included in MCC calculation
6	Trafos 2 and 3	PAR_UNIT_MCC,Parallel units included in MCC calculation
7	Trafos 1+2+3	PAR_UNIT_MCC,Parallel units included in MCC calculation

7.1.86 ABBIED600_Rev1_BCMod

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

7.1.87 ABBIED600_Rev1_OpModArc

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

7.1.88 ABBIED600_Rev1_AutoManMod

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

7.1.89 ABBIED600_Rev1_OpModStUp

Value	Description	Remarks
1	Illt	Operation mode,Motor start-up operation mode

2	Illt, CB	Operation mode, Motor start-up operation mode
3	Illt + stall	Operation mode, Motor start-up operation mode
4	Illt + stall, CB	Operation mode, Motor start-up operation mode

7.1.90 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

7.1.91 ABBIED600_Rev1_CTConnTyp

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

7.1.92 ABBIED600_Rev2_Wnd1Typ

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

7.1.93 ABBIED600_Rev2_Wnd2Typ

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

7.1.94 ABBIED600_Rev1_ClkNum

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

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

7.1.95 ABBIED600_Rev3_ZroAEIm

Value	Description	Remarks
1	Not eliminated	Zro A elimination,Elimination of the zero-sequence current
2	Winding 1	Zro A elimination,Elimination of the zero-sequence current
3	Winding 2	Zro A elimination,Elimination of the zero-sequence current
4	Winding 1 and 2	Zro A elimination,Elimination of the zero-sequence current
5	Winding 3	Zro A elimination,Elimination of the zero-sequence current
6	Winding 1 and 3	Zro A elimination,Elimination of the zero-sequence current
7	Winding 2 and 3	Zro A elimination,Elimination of the zero-sequence current
8	Winding 1, 2, 3	Zro A elimination,Elimination of the zero-sequence current

7.1.96 ABBIED600_Rev1_WndSel

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

7.1.97 ABBIED600_Rev1_ZMeasMod

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

7.1.98 ABBIED600_Rev1_VPhSel

Value	Description	Remarks
1	A or AB	Phase Sel for Z Clc,Voltage phase selection
2	B or BC	Phase Sel for Z Clc,Voltage phase selection
3	C or CA	Phase Sel for Z Clc,Voltage phase selection

7.1.99 ABBIED600_Rev1_SysGnd

Value	Description	Remarks
1	High impedance	System grounding GFC,Network neutral earthing method
2	Low impedance	System grounding GFC,Network neutral earthing method
3	From input	System grounding GFC,Network neutral earthing method

7.1.100 ABBIED600_Rev1_PhPrfModHi

Value	Description	Remarks
1	No filter	Ph Prf mode Hi Z GFC,Phase preference mode for high impedance earthed network
2	No preference	Ph Prf mode Hi Z GFC,Phase preference mode for high impedance earthed network
3	Cyc A-B-C-A	Ph Prf mode Hi Z GFC,Phase preference mode for high impedance earthed network
4	Cyc A-C-B-A	Ph Prf mode Hi Z GFC,Phase preference mode for high impedance earthed network
5	Acyc A-B-C	Ph Prf mode Hi Z GFC,Phase preference mode for high impedance earthed network
6	Acyc A-C-B	Ph Prf mode Hi Z GFC,Phase preference mode for high impedance earthed network
7	Acyc B-A-C	Ph Prf mode Hi Z GFC,Phase preference mode for high impedance earthed network
8	Acyc B-C-A	Ph Prf mode Hi Z GFC,Phase preference mode for high impedance earthed network
9	Acyc C-A-B	Ph Prf mode Hi Z GFC,Phase preference mode for high impedance earthed network
10	Acyc C-B-A	Ph Prf mode Hi Z GFC,Phase preference mode for high impedance earthed network

7.1.101 ABBIED600_Rev1_PhPrfModLo

Value	Description	Remarks
1	All loops	Ph Prf mode Lo Z GFC,Loop selection mode for low impedance earthed network
2	PE only	Ph Prf mode Lo Z GFC,Loop selection mode for low impedance earthed network
3	PP only	Ph Prf mode Lo Z GFC,Loop selection mode for low impedance earthed network
4	BLK leading PE	Ph Prf mode Lo Z GFC,Loop selection mode for low impedance earthed network
5	BLK lagging PE	Ph Prf mode Lo Z GFC,Loop selection mode for low impedance earthed network

7.1.102 ABBIED600_Rev1_ZMod

Value	Description	Remarks
1	Rectangular	Impedance mode Zn,Impedance characteristic, underimpedance, PSL
2	Polar	Impedance mode Zn,Impedance characteristic, underimpedance, PSL

7.1.103 ABBIED600_Rev1_ZChrMod

Value	Description	Remarks
1	Quadrilateral	Impedance Chr Gnd Zn,Impedance characteristic for PE-loops, zones
2	Mho (circular)	Impedance Chr Gnd Zn,Impedance characteristic for PE-loops, zones
3	Mho Dir line	Impedance Chr Gnd Zn,Impedance characteristic for PE-loops, zones
4	Offset Dir line	Impedance Chr Gnd Zn,Impedance characteristic for PE-loops, zones
5	Bullet (combi)	Impedance Chr Gnd Zn,Impedance characteristic for PE-loops, zones

7.1.104 ABBIED600_Rev1_ZnTmMod

Value	Description	Remarks
1	Independent	Zone timer mode,Operate timer start mode, zones

2	Common	Zone timer mode, Operate timer start mode, zones
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7.1.105 ABBIED600_Rev3_PhSelMod

Value	Description	Remarks
1	Overcurrent	Phase Sel mode GFC, Phase selection method
2	Voltdep overcurr	Phase Sel mode GFC, Phase selection method
3	Under impedance	Phase Sel mode GFC, Phase selection method
4	OC AND Und impedance	Phase Sel mode GFC, Phase selection method

7.1.106 ABBIED600_Rev1_EfDetMod

Value	Description	Remarks
1	Io	EF detection Mod GFC, Earth-fault (EF) detection method
2	Io OR Uo	EF detection Mod GFC, Earth-fault (EF) detection method
3	Io AND Uo	EF detection Mod GFC, Earth-fault (EF) detection method
4	Io AND IoRef	EF detection Mod GFC, Earth-fault (EF) detection method

7.1.107 ABBIED600_Rev1_SelActZn

Value	Description	Remarks
1	Zone 1	Select active zones, Active zones selection
2	Zones 1-2	Select active zones, Active zones selection
3	Zones 1-3	Select active zones, Active zones selection
4	Zones 1-4	Select active zones, Active zones selection
5	All 5 zones	Select active zones, Active zones selection

7.1.108 ABBIED600_Rev2_StrPhSel_Sub1

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

7.1.109 ABBIED600_Rev8_TestProKind_Sub3

Value	Description	Remarks
0	Reset	COLPTOC1, Test control for outputs
17	Activate ALARM	COLPTOC1, Test control for outputs
18	Deactive ALARM	COLPTOC1, Test control for outputs
21	Activate BLK_CLOSE	COLPTOC1, Test control for outputs
22	Deactive BLK_CLOSE	COLPTOC1, Test control for outputs
113	Activate OPR_OVL0D	COLPTOC1, Test control for outputs
114	Deactive OPR_OVL0D	COLPTOC1, Test control for outputs
115	Activate ST_OVL0D	COLPTOC1, Test control for outputs
116	Deactive ST_OVL0D	COLPTOC1, Test control for outputs
117	Activate OPR_UN_I	COLPTOC1, Test control for outputs
118	Deactive OPR_UN_I	COLPTOC1, Test control for outputs

119	Activate ST_UN_I	COLPTOC1,Test control for outputs
120	Deactive ST_UN_I	COLPTOC1,Test control for outputs

7.1.110 ABBIED600_Rev1_TrOutMod_Sub1

Value	Description	Remarks
1	Non-latched	Reclose inhibit mode,Reclose inhibit mode
3	Lockout	Reclose inhibit mode,Reclose inhibit mode

7.1.111 ABBIED600_Rev1_CubAlmMod

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

7.1.112 ABBIED600_Rev1_FuLoct

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

7.1.113 ABBIED600_Rev8_TestProKind_Sub4

Value	Description	Remarks
0	Reset	CUBPTOC1,Test control for outputs
1	Activate START	CUBPTOC1,Test control for outputs
2	Deactive START	CUBPTOC1,Test control for outputs
9	Activate OPERATE	CUBPTOC1,Test control for outputs
10	Deactive OPERATE	CUBPTOC1,Test control for outputs
17	Activate ALARM	CUBPTOC1,Test control for outputs
18	Deactive ALARM	CUBPTOC1,Test control for outputs

7.1.114 ABBIED600_Rev1_RcdUnbPhKind

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

7.1.115 ABBIED600_Rev8_TestProKind_Sub28

Value	Description	Remarks
0	Reset	SRCPTOC1,Test control for outputs
9	Activate OPERATE	SRCPTOC1,Test control for outputs
10	Deactive OPERATE	SRCPTOC1,Test control for outputs
17	Activate ALARM	SRCPTOC1,Test control for outputs
18	Deactive ALARM	SRCPTOC1,Test control for outputs

7.1.116 ABBIED600_Rev2_EthPortMod

Value	Description	Remarks
0	Off	Process bus interface mode,Ethernet port mode
1	On	Process bus interface mode,Ethernet port mode

7.1.117 ABBIED600_Rev1_BusSwPos

Value	Description	Remarks
1	Bus 1	SWITCH_POS,Switch position
2	Bus 2	SWITCH_POS,Switch position

7.1.118 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

7.1.119 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

7.1.120 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

7.1.121 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

7.1.122 ABBSSC600_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
80	80 samples / cycle	Storage rate,Storage rate for waveform recordings in samples per cycle

7.1.123 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

7.1.124 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	S11	Channel selection,Select a signal, which will be recorded by this channel
19	S12	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	S11B	Channel selection,Select a signal, which will be recorded by this channel
25	S12B	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

7.2 Extended Enum types

7.2.1 ABBIED600_Rev1_HealthKind

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

7.2.2 ABBIED600_Rev35_ProFcn

Value	Description	Remarks
-127	PHAPTUV	Protection,Protection function
-126	PHCPTOV	Protection,Protection function
-125	PHBPTOV	Protection,Protection function
-124	PHAPTOV	Protection,Protection function
-123	DPH3LPDOC	Protection,Protection function
-122	DPH3LPDOC	Protection,Protection function
-121	DPH3HPDOC	Protection,Protection function
-120	DPH3HPDOC	Protection,Protection function
-119	PH3LPTOC	Protection,Protection function
-118	PH3LPTOC	Protection,Protection function
-117	XDEFLPDEF	Protection,Protection function
-116	XDEFLPDEF	Protection,Protection function
-115	SDPHLPDOC	Protection,Protection function
-114	SDPHLPDOC	Protection,Protection function
-113	XNSPTOC	Protection,Protection function
-112	XNSPTOC	Protection,Protection function
-111	XEFIPTOC	Protection,Protection function
-110	XEFHPTOC	Protection,Protection function
-109	XEFHPTOC	Protection,Protection function
-108	XEFLPTOC	Protection,Protection function
-107	XEFLPTOC	Protection,Protection function
-98	RESCPSCH	Protection,Protection function
-96	SPHIPTOC	Protection,Protection function
-93	SPHLPTOC	Protection,Protection function

-92	SPHLPTOC	Protection,Protection function
-89	SPHHPTOC	Protection,Protection function
-88	SPHHPTOC	Protection,Protection function
-87	SPHTUV	Protection,Protection function
-86	SPHTUV	Protection,Protection function
-85	SPHTUV	Protection,Protection function
-84	SPHTUV	Protection,Protection function
-83	SPHPTOV	Protection,Protection function
-82	SPHPTOV	Protection,Protection function
-81	SPHPTOV	Protection,Protection function
-80	SPHPTOV	Protection,Protection function
-79	PH3HPTOC	Protection,Protection function
-78	PH3HPTOC	Protection,Protection function
-77	PH3IPTOC	Protection,Protection function
-72	DOPDPDR	Protection,Protection function
-70	DUPDPDR	Protection,Protection function
-69	DUPDPDR	Protection,Protection function
-68	PHPVOC	Protection,Protection function
-66	DQPTUV	Protection,Protection function
-65	VVSPAM	Protection,Protection function
-64	PHPVOC	Protection,Protection function
-63	H3EFPSEF	Protection,Protection function
-62	SRCPTOC	Protection,Protection function
-61	COLPTOC	Protection,Protection function
-60	HCUBPTOC	Protection,Protection function
-59	CUBPTOC	Protection,Protection function
-58	UZPDIS	Protection,Protection function
-57	FDEFLPDEF	Protection,Protection function
-56	FDEFLPDEF	Protection,Protection function
-54	FEFLPTOC	Protection,Protection function
-53	FDPHLPDOC	Protection,Protection function
-52	FDPHLPDOC	Protection,Protection function
-50	FPHLPTOC	Protection,Protection function
-47	MAP12GAPC	Protection,Protection function
-46	MAP12GAPC	Protection,Protection function
-45	MAP12GAPC	Protection,Protection function
-44	MAP12GAPC	Protection,Protection function
-43	MAP12GAPC	Protection,Protection function
-42	MAP12GAPC	Protection,Protection function
-41	MAP12GAPC	Protection,Protection function
-40	MAP12GAPC	Protection,Protection function
-39	UEXPDIS	Protection,Protection function

-38	DSTPDIS	Protection,Protection function
-37	HAEFPTOC	Protection,Protection function
-36	UEXPDIS	Protection,Protection function
-33	WPWDE	Protection,Protection function
-30	PHDSTPDIS	Protection,Protection function
-29	TR3PTDF	Protection,Protection function
-28	HICPDIF	Protection,Protection function
-27	HIBPDIF	Protection,Protection function
-26	HIAPDIF	Protection,Protection function
-25	OEPVPH	Protection,Protection function
-24	OEPVPH	Protection,Protection function
-23	OEPVPH	Protection,Protection function
-22	OEPVPH	Protection,Protection function
-19	PSPTOV	Protection,Protection function
-18	PSPTOV	Protection,Protection function
-17	MPUPF	Protection,Protection function
-16	MPUPF	Protection,Protection function
-15	PREVPTOC	Protection,Protection function
-14	OOSRPSB	Protection,Protection function
-13	PHPTUC	Protection,Protection function
-12	PHPTUC	Protection,Protection function
-11	PHPTUC	Protection,Protection function
-10	LVRTPTUV	Protection,Protection function
-9	PHIZ	Protection,Protection function
-7	INTRPTEF	Protection,Protection function
-5	STTPMSU	Protection,Protection function
-4	MREFPTOC	Protection,Protection function
-3	JAMP TOC	Protection,Protection function
-2	PHCPTUV	Protection,Protection function
-1	PHBPTUV	Protection,Protection function
0	Unknown	Protection,Protection function
1	PHLPTOC	Protection,Protection function
5	PHLTPTOC	Protection,Protection function
6	PHHPTOC	Protection,Protection function
12	PHIPTOC	Protection,Protection function
14	MFADPSDE	Protection,Protection function
17	EFLPTOC	Protection,Protection function
22	EFHPTOC	Protection,Protection function
30	EFIPTOC	Protection,Protection function
35	NSPTOC	Protection,Protection function
41	PDNSPTOC	Protection,Protection function
44	T1PTTR	Protection,Protection function

46	T2PTTR	Protection,Protection function
48	MPTTR	Protection,Protection function
50	DEFLPDEF	Protection,Protection function
53	DEFHPDEF	Protection,Protection function
56	EFPADM	Protection,Protection function
59	FRPFRQ	Protection,Protection function
65	LSHDPFRQ	Protection,Protection function
71	DPHLPDOC	Protection,Protection function
74	DPHHPDOC	Protection,Protection function
77	MAPGAPC	Protection,Protection function
85	MNSPTOC	Protection,Protection function
88	LOFLPTUC	Protection,Protection function
90	TR2PTDF	Protection,Protection function
91	LNPLDF	Protection,Protection function
92	LREFPNDF	Protection,Protection function
94	MPDIF	Protection,Protection function
96	HREFPDIF	Protection,Protection function
97	HREFPDIF	Protection,Protection function
98	MHZPDIF	Protection,Protection function
100	ROVPTOV	Protection,Protection function
104	PHPTOV	Protection,Protection function
108	PHPTUV	Protection,Protection function
112	NSPTOV	Protection,Protection function
116	PSPTUV	Protection,Protection function
118	ARCSARC	Protection,Protection function
121	ANOGAPC	Protection,Protection function
122	BBPBDF	Protection,Protection function

7.2.3 ABBIED600_Rev2_cmdQual

Value	Description	Remarks
-1	Off	Operation mode,Operation mode for generic control point
0	pulse	Operation mode,Operation mode for generic control point,Pulsed
1	persistent	Operation mode,Operation mode for generic control point,Toggle/Persistent

7.2.4 ABBIED600_Rev1_PhaseFaultDirectionKind

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

7.2.5 ABBIED600_Rev1_CurveCharKind

Value	Description	Remarks
1	ANSI Extremely Inverse	Operating curve type,Selection of time delay curve type,ANSI Ext. inv.
2	ANSI Very Inverse	Operating curve type,Selection of time delay curve type,ANSI Very inv.
3	ANSI Normal Inverse	Operating curve type,Selection of time delay curve type,ANSI Norm. inv.
4	ANSI Moderate Inverse	Operating curve type,Selection of time delay curve type,ANSI Mod. inv.
5	ANSI Definite Time	Operating curve type,Selection of time delay curve type,ANSI Def. Time
6	Long-Time Extremely Inverse	Operating curve type,Selection of time delay curve type,L.T.E. inv.
7	Long-Time Very Inverse	Operating curve type,Selection of time delay curve type,L.T.V. inv.
8	Long-Time Inverse	Operating curve type,Selection of time delay curve type,L.T. inv.
9	IEC Normal Inverse	Operating curve type,Selection of time delay curve type,IEC Norm. inv.
10	IEC Very Inverse	Operating curve type,Selection of time delay curve type,IEC Very inv.
11	IEC Inverse	Operating curve type,Selection of time delay curve type,IEC inv.
12	IEC Extremely Inverse	Operating curve type,Selection of time delay curve type,IEC Ext. inv.
13	IEC Short-Time Inverse	Operating curve type,Selection of time delay curve type,IEC S.T. inv.
14	IEC Long-Time Inverse	Operating curve type,Selection of time delay curve type,IEC L.T. inv.
15	IEC Definite Time	Operating curve type,Selection of time delay curve type,IEC Def. Time
16	Reserved	Operating curve type,Selection of time delay curve type
17	Polynom 1	Operating curve type,Selection of time delay curve type,Programmable
18	Polynom 2	Operating curve type,Selection of time delay curve type,RI type
19	Polynom 3	Operating curve type,Selection of time delay curve type,RD type
20	Polynom 4	Operating curve type,Selection of time delay curve type
21	Polynom 5	Operating curve type,Selection of time delay curve type
22	Polynom 6	Operating curve type,Selection of time delay curve type
23	Polynom 7	Operating curve type,Selection of time delay curve type
24	Polynom 8	Operating curve type,Selection of time delay curve type
25	Polynom 9	Operating curve type,Selection of time delay curve type
26	Polynom 10	Operating curve type,Selection of time delay curve type
27	Polynom 11	Operating curve type,Selection of time delay curve type
28	Polynom 12	Operating curve type,Selection of time delay curve type
29	Polynom 13	Operating curve type,Selection of time delay curve type
30	Polynom 14	Operating curve type,Selection of time delay curve type
31	Polynom 15	Operating curve type,Selection of time delay curve type
32	Polynom 16	Operating curve type,Selection of time delay curve type
33	Multiline 1	Operating curve type,Selection of time delay curve type
34	Multiline 2	Operating curve type,Selection of time delay curve type
35	Multiline 3	Operating curve type,Selection of time delay curve type
36	Multiline 4	Operating curve type,Selection of time delay curve type
37	Multiline 5	Operating curve type,Selection of time delay curve type
38	Multiline 6	Operating curve type,Selection of time delay curve type
39	Multiline 7	Operating curve type,Selection of time delay curve type
40	Multiline 8	Operating curve type,Selection of time delay curve type

41	Multiline 9	Operating curve type,Selection of time delay curve type
42	Multiline 10	Operating curve type,Selection of time delay curve type
43	Multiline 11	Operating curve type,Selection of time delay curve type
44	Multiline 12	Operating curve type,Selection of time delay curve type
45	Multiline 13	Operating curve type,Selection of time delay curve type
46	Multiline 14	Operating curve type,Selection of time delay curve type
47	Multiline 15	Operating curve type,Selection of time delay curve type
48	Multiline 16	Operating curve type,Selection of time delay curve type
-1	Recloser 1	Operating curve type,Selection of time delay curve type
-2	Recloser 2	Operating curve type,Selection of time delay curve type
-3	Recloser 3	Operating curve type,Selection of time delay curve type
-4	Recloser 4	Operating curve type,Selection of time delay curve type
-5	Recloser 5	Operating curve type,Selection of time delay curve type
-6	Recloser 6	Operating curve type,Selection of time delay curve type
-7	Recloser 7	Operating curve type,Selection of time delay curve type
-8	Recloser 8	Operating curve type,Selection of time delay curve type
-9	Recloser 8+	Operating curve type,Selection of time delay curve type
-10	Recloser 8*	Operating curve type,Selection of time delay curve type
-11	Recloser 9	Operating curve type,Selection of time delay curve type
-12	Recloser 11	Operating curve type,Selection of time delay curve type
-13	Recloser 13	Operating curve type,Selection of time delay curve type
-14	Recloser 14	Operating curve type,Selection of time delay curve type
-15	Recloser 15	Operating curve type,Selection of time delay curve type
-16	Recloser 16	Operating curve type,Selection of time delay curve type
-17	Recloser 17	Operating curve type,Selection of time delay curve type
-18	Recloser 18	Operating curve type,Selection of time delay curve type
-19	Recloser A	Operating curve type,Selection of time delay curve type
-20	Recloser B	Operating curve type,Selection of time delay curve type
-21	Recloser C	Operating curve type,Selection of time delay curve type
-22	Recloser D	Operating curve type,Selection of time delay curve type
-23	Recloser E	Operating curve type,Selection of time delay curve type
-24	Recloser F	Operating curve type,Selection of time delay curve type
-25	Recloser G	Operating curve type,Selection of time delay curve type
-26	Recloser H	Operating curve type,Selection of time delay curve type
-27	Recloser J	Operating curve type,Selection of time delay curve type
-28	Recloser Kg	Operating curve type,Selection of time delay curve type
-29	Recloser Kp	Operating curve type,Selection of time delay curve type
-30	Recloser L	Operating curve type,Selection of time delay curve type
-31	Recloser M	Operating curve type,Selection of time delay curve type
-32	Recloser N	Operating curve type,Selection of time delay curve type
-33	Recloser P	Operating curve type,Selection of time delay curve type
-34	Recloser R	Operating curve type,Selection of time delay curve type

-35	Recloser T	Operating curve type,Selection of time delay curve type
-36	Recloser V	Operating curve type,Selection of time delay curve type
-37	Recloser W	Operating curve type,Selection of time delay curve type
-38	Recloser Y	Operating curve type,Selection of time delay curve type
-39	Recloser Z	Operating curve type,Selection of time delay curve type

7.2.6 ABBIED600_Rev20_TstOutKind

Value	Description	Remarks
0	Reset	PHLPTOC1,Test control for outputs
1	Activate START	PHLPTOC1,Test control for outputs
2	Deactive START	PHLPTOC1,Test control for outputs
3	Activate ST_A	PHLPTOC1,Test control for outputs
4	Deactive ST_A	PHLPTOC1,Test control for outputs
5	Activate ST_B	PHLPTOC1,Test control for outputs
6	Deactive ST_B	PHLPTOC1,Test control for outputs
7	Activate ST_C	PHLPTOC1,Test control for outputs
8	Deactive ST_C	PHLPTOC1,Test control for outputs
9	Activate OPERATE	PHLPTOC1,Test control for outputs
10	Deactive OPERATE	PHLPTOC1,Test control for outputs
11	Activate OPR_A	PHLPTOC1,Test control for outputs
12	Deactive OPR_A	PHLPTOC1,Test control for outputs
13	Activate OPR_B	PHLPTOC1,Test control for outputs
14	Deactive OPR_B	PHLPTOC1,Test control for outputs
15	Activate OPR_C	PHLPTOC1,Test control for outputs
16	Deactive OPR_C	PHLPTOC1,Test control for outputs
17	Activate ALARM	PHLPTOC1,Test control for outputs
18	Deactive ALARM	PHLPTOC1,Test control for outputs
19	Activate WARNING	PHLPTOC1,Test control for outputs
20	Deactive WARNING	PHLPTOC1,Test control for outputs
21	Activate BLK_CLOSE	PHLPTOC1,Test control for outputs
22	Deactive BLK_CLOSE	PHLPTOC1,Test control for outputs
23	reserved1	PHLPTOC1,Test control for outputs
24	reserved2	PHLPTOC1,Test control for outputs
25	Activate CB_FAULT_AL	PHLPTOC1,Test control for outputs
26	Deactive CB_FAULT_AL	PHLPTOC1,Test control for outputs
27	Activate TRBU	PHLPTOC1,Test control for outputs
28	Deactive TRBU	PHLPTOC1,Test control for outputs
29	Activate TRRET	PHLPTOC1,Test control for outputs
30	Deactive TRRET	PHLPTOC1,Test control for outputs
31	Activate BLK_EF	PHLPTOC1,Test control for outputs
32	Deactive BLK_EF	PHLPTOC1,Test control for outputs
33	Activate ARC_FLT_DET	PHLPTOC1,Test control for outputs
34	Deactive ARC_FLT_DET	PHLPTOC1,Test control for outputs

35	Activate BLK2H	PHLPTOC1,Test control for outputs
36	Deactive BLK2H	PHLPTOC1,Test control for outputs
37	Activate BLK2H_A	PHLPTOC1,Test control for outputs
38	Deactive BLK2H_A	PHLPTOC1,Test control for outputs
39	Activate BLK2H_B	PHLPTOC1,Test control for outputs
40	Deactive BLK2H_B	PHLPTOC1,Test control for outputs
41	Activate BLK2H_C	PHLPTOC1,Test control for outputs
42	Deactive BLK2H_C	PHLPTOC1,Test control for outputs
43	Activate TRIP	PHLPTOC1,Test control for outputs
44	Deactive TRIP	PHLPTOC1,Test control for outputs
45	Activate CL_LKOUT	PHLPTOC1,Test control for outputs
46	Deactive CL_LKOUT	PHLPTOC1,Test control for outputs
47	Activate OPEN_CB	PHLPTOC1,Test control for outputs
48	Deactive OPEN_CB	PHLPTOC1,Test control for outputs
49	Activate CLOSE_CB	PHLPTOC1,Test control for outputs
50	Deactive CLOSE_CB	PHLPTOC1,Test control for outputs
51	Activate CMD_WAIT	PHLPTOC1,Test control for outputs
52	Deactive CMD_WAIT	PHLPTOC1,Test control for outputs
53	Activate PROT_CRD	PHLPTOC1,Test control for outputs
54	Deactive PROT_CRD	PHLPTOC1,Test control for outputs
55	Activate INPRO	PHLPTOC1,Test control for outputs
56	Deactive INPRO	PHLPTOC1,Test control for outputs
57	Activate LOCKED	PHLPTOC1,Test control for outputs
58	Deactive LOCKED	PHLPTOC1,Test control for outputs
59	Activate UNSUC_RECL	PHLPTOC1,Test control for outputs
60	Deactive UNSUC_RECL	PHLPTOC1,Test control for outputs
61	Activate AR_ON	PHLPTOC1,Test control for outputs
62	Deactive AR_ON	PHLPTOC1,Test control for outputs
63	Act. TRV_T_OP_ALM	PHLPTOC1,Test control for outputs
64	Deact. TRV_T_OP_ALM	PHLPTOC1,Test control for outputs
65	Act. TRV_T_CL_ALM	PHLPTOC1,Test control for outputs
66	Deact. TRV_T_CL_ALM	PHLPTOC1,Test control for outputs
67	Act. DIFTRVTOPALM	PHLPTOC1,Test control for outputs
68	Deact. DIFTRVTOPALM	PHLPTOC1,Test control for outputs
69	Act. DIFTRVTCLALM	PHLPTOC1,Test control for outputs
70	Deact. DIFTRVTCLALM	PHLPTOC1,Test control for outputs
71	Activate SPR_CHR_ALM	PHLPTOC1,Test control for outputs
72	Deactive SPR_CHR_ALM	PHLPTOC1,Test control for outputs
73	Activate OPR_ALM	PHLPTOC1,Test control for outputs
74	Deactive OPR_ALM	PHLPTOC1,Test control for outputs
75	Activate OPR_LO	PHLPTOC1,Test control for outputs
76	Deactive OPR_LO	PHLPTOC1,Test control for outputs

77	Activate IPOW_ALM	PHLPTOC1,Test control for outputs
78	Deactive IPOW_ALM	PHLPTOC1,Test control for outputs
79	Activate IPOW_LO	PHLPTOC1,Test control for outputs
80	Deactive IPOW_LO	PHLPTOC1,Test control for outputs
81	Activate CB_LIFE_ALM	PHLPTOC1,Test control for outputs
82	Deactive CB_LIFE_ALM	PHLPTOC1,Test control for outputs
83	Activate MON_ALM	PHLPTOC1,Test control for outputs
84	Deactive MON_ALM	PHLPTOC1,Test control for outputs
85	Activate PRES_ALM	PHLPTOC1,Test control for outputs
86	Deactive PRES_ALM	PHLPTOC1,Test control for outputs
87	Activate PRES_LO	PHLPTOC1,Test control for outputs
88	Deactive PRES_LO	PHLPTOC1,Test control for outputs
89	Activate OPENPOS	PHLPTOC1,Test control for outputs
90	Deactive OPENPOS	PHLPTOC1,Test control for outputs
91	Activate INVALIDPOS	PHLPTOC1,Test control for outputs
92	Deactive INVALIDPOS	PHLPTOC1,Test control for outputs
93	Activate CLOSEPOS	PHLPTOC1,Test control for outputs
94	Deactive CLOSEPOS	PHLPTOC1,Test control for outputs
95	Activate STR_LS_LOC	PHLPTOC1,Test control for outputs
96	Deactive STR_LS_LOC	PHLPTOC1,Test control for outputs
97	Activate STR_LS_REM	PHLPTOC1,Test control for outputs
98	Deactive STR_LS_REM	PHLPTOC1,Test control for outputs
99	Activate OPR_LS_LOC	PHLPTOC1,Test control for outputs
100	Deactive OPR_LS_LOC	PHLPTOC1,Test control for outputs
101	Activate OPR_LS_REM	PHLPTOC1,Test control for outputs
102	Deactive OPR_LS_REM	PHLPTOC1,Test control for outputs
103	Activate OPR_HS_LOC	PHLPTOC1,Test control for outputs
104	Deactive OPR_HS_LOC	PHLPTOC1,Test control for outputs
105	Activate OPR_HS_REM	PHLPTOC1,Test control for outputs
106	Deactive OPR_HS_REM	PHLPTOC1,Test control for outputs
107	Activate RSTD2H_LOC	PHLPTOC1,Test control for outputs
108	Deactive RSTD2H_LOC	PHLPTOC1,Test control for outputs
109	Activate RSTD2H_REM	PHLPTOC1,Test control for outputs
110	Deactive RSTD2H_REM	PHLPTOC1,Test control for outputs
111	Activate PROT_ACTIVE	PHLPTOC1,Test control for outputs
112	Deactive PROT_ACTIVE	PHLPTOC1,Test control for outputs
113	Activate FAIL	PHLPTOC1,Test control for outputs
114	Deactive FAIL	PHLPTOC1,Test control for outputs
115	Activate RESTORE	PHLPTOC1,Test control for outputs
116	Deactive RESTORE	PHLPTOC1,Test control for outputs
117	Activate FUSEF_3PH	PHLPTOC1,Test control for outputs
118	Deactive FUSEF_3PH	PHLPTOC1,Test control for outputs

119	Activate FUSEF_U	PHLPTOC1,Test control for outputs
120	Deactive FUSEF_U	PHLPTOC1,Test control for outputs
121	Activate READY	PHLPTOC1,Test control for outputs
122	Deactive READY	PHLPTOC1,Test control for outputs
123	Activate RELEASE	PHLPTOC1,Test control for outputs
124	Deactive RELEASE	PHLPTOC1,Test control for outputs
125	Activate OPR_Z_EXTN	PHLPTOC1,Test control for outputs
126	Deactive OPR_Z_EXTN	PHLPTOC1,Test control for outputs
-1	Activate OPR_IIT	PHLPTOC1,Test control for outputs
-2	Deactive OPR_IIT	PHLPTOC1,Test control for outputs
-3	Activate OPR_STALL	PHLPTOC1,Test control for outputs
-4	Deactive OPR_STALL	PHLPTOC1,Test control for outputs
-5	Activate MOT_START	PHLPTOC1,Test control for outputs
-6	Deactive MOT_START	PHLPTOC1,Test control for outputs
-7	Activate LOCK_START	PHLPTOC1,Test control for outputs
-8	Deactive LOCK_START	PHLPTOC1,Test control for outputs
-9	Activate BLK_RESTART	PHLPTOC1,Test control for outputs
-10	Deactive BLK_RESTART	PHLPTOC1,Test control for outputs
-11	Activate OPR_LS	PHLPTOC1,Test control for outputs
-12	Deactive OPR_LS	PHLPTOC1,Test control for outputs
-13	Activate OPR_HS	PHLPTOC1,Test control for outputs
-14	Deactive OPR_HS	PHLPTOC1,Test control for outputs
-15	Activate BLKD2H	PHLPTOC1,Test control for outputs
-16	Deactive BLKD2H	PHLPTOC1,Test control for outputs
-17	Activate BLKD5H	PHLPTOC1,Test control for outputs
-18	Deactive BLKD5H	PHLPTOC1,Test control for outputs
-19	Activate BLKDWAV	PHLPTOC1,Test control for outputs
-20	Deactive BLKDWAV	PHLPTOC1,Test control for outputs
-21	Activate OPR_UFRQ	PHLPTOC1,Test control for outputs
-22	Deactive OPR_UFRQ	PHLPTOC1,Test control for outputs
-23	Activate OPR_OFQR	PHLPTOC1,Test control for outputs
-24	Deactive OPR_OFQR	PHLPTOC1,Test control for outputs
-25	Activate OPR_FRG	PHLPTOC1,Test control for outputs
-26	Deactive OPR_FRG	PHLPTOC1,Test control for outputs
-27	Activate ST_UFRQ	PHLPTOC1,Test control for outputs
-28	Deactive ST_UFRQ	PHLPTOC1,Test control for outputs
-29	Activate ST_OFQR	PHLPTOC1,Test control for outputs
-30	Deactive ST_OFQR	PHLPTOC1,Test control for outputs
-31	Activate ST_FRG	PHLPTOC1,Test control for outputs
-32	Deactive ST_FRG	PHLPTOC1,Test control for outputs
-33	Activate RAISE	PHLPTOC1,Test control for outputs
-34	Deactive RAISE	PHLPTOC1,Test control for outputs

-35	Activate LOWER	PHLPTOC1,Test control for outputs
-36	Deactive LOWER	PHLPTOC1,Test control for outputs
-37	Activate PAR_FAIL	PHLPTOC1,Test control for outputs
-38	Deactive PAR_FAIL	PHLPTOC1,Test control for outputs
-39	Activate SYNC_INPRO	PHLPTOC1,Test control for outputs
-40	Deactive SYNC_INPRO	PHLPTOC1,Test control for outputs
-41	Activate SYNC_OK	PHLPTOC1,Test control for outputs
-42	Deactive SYNC_OK	PHLPTOC1,Test control for outputs
-43	Activate CL_FAIL_AL	PHLPTOC1,Test control for outputs
-44	Deactive CL_FAIL_AL	PHLPTOC1,Test control for outputs
-45	Activate CMD_FAIL_AL	PHLPTOC1,Test control for outputs
-46	Deactive CMD_FAIL_AL	PHLPTOC1,Test control for outputs
-47	Activate LLDB	PHLPTOC1,Test control for outputs
-48	Deactive LLDB	PHLPTOC1,Test control for outputs
-49	Activate LLLB	PHLPTOC1,Test control for outputs
-50	Deactive LLLB	PHLPTOC1,Test control for outputs
-51	Activate DLLB	PHLPTOC1,Test control for outputs
-52	Deactive DLLB	PHLPTOC1,Test control for outputs
-53	Activate DLDB	PHLPTOC1,Test control for outputs
-54	Deactive DLDB	PHLPTOC1,Test control for outputs
-55	Activate ST_REST	PHLPTOC1,Test control for outputs
-56	Deactive ST_REST	PHLPTOC1,Test control for outputs
-57	Activate INT_BLKD	PHLPTOC1,Test control for outputs
-58	Deactive INT_BLKD	PHLPTOC1,Test control for outputs
-59	Activate SWELLST	PHLPTOC1,Test control for outputs
-60	Deactive SWELLST	PHLPTOC1,Test control for outputs
-61	Activate DIPST	PHLPTOC1,Test control for outputs
-62	Deactive DIPST	PHLPTOC1,Test control for outputs
-63	Activate INTST	PHLPTOC1,Test control for outputs
-64	Deactive INTST	PHLPTOC1,Test control for outputs
-65	Activate COOL_ACTIVE	PHLPTOC1,Test control for outputs
-66	Deactive COOL_ACTIVE	PHLPTOC1,Test control for outputs
-67	Activate MN_UNB_AL	PHLPTOC1,Test control for outputs
-68	Deactive MN_UNB_AL	PHLPTOC1,Test control for outputs
-69	Activate PCT_UNB_AL	PHLPTOC1,Test control for outputs
-70	Deactive PCT_UNB_AL	PHLPTOC1,Test control for outputs
-71	Activate FAIL_CTGRP1	PHLPTOC1,Test control for outputs
-72	Deactive FAIL_CTGRP1	PHLPTOC1,Test control for outputs
-73	Activate FAIL_CTGRP2	PHLPTOC1,Test control for outputs
-74	Deactive FAIL_CTGRP2	PHLPTOC1,Test control for outputs
-75	Activate FAIL_CTGRP3	PHLPTOC1,Test control for outputs
-76	Deactive FAIL_CTGRP3	PHLPTOC1,Test control for outputs

-77	Activate OBS_PR_ACT	PHLPTOC1,Test control for outputs
-78	Deactive OBS_PR_ACT	PHLPTOC1,Test control for outputs
-79	Activate OPERATE_Z1	PHLPTOC1,Test control for outputs
-80	Deactive OPERATE_Z1	PHLPTOC1,Test control for outputs
-81	Activate OPERATE_Z2	PHLPTOC1,Test control for outputs
-82	Deactive OPERATE_Z2	PHLPTOC1,Test control for outputs
-83	Activate OPERATE_Z3	PHLPTOC1,Test control for outputs
-84	Deactive OPERATE_Z3	PHLPTOC1,Test control for outputs
-85	Activate OPERATE_Z4	PHLPTOC1,Test control for outputs
-86	Deactive OPERATE_Z4	PHLPTOC1,Test control for outputs
-87	Activate OPERATE_Z5	PHLPTOC1,Test control for outputs
-88	Deactive OPERATE_Z5	PHLPTOC1,Test control for outputs
-89	Activate START_Z1	PHLPTOC1,Test control for outputs
-90	Deactive START_Z1	PHLPTOC1,Test control for outputs
-91	Activate START_Z2	PHLPTOC1,Test control for outputs
-92	Deactive START_Z2	PHLPTOC1,Test control for outputs
-93	Activate START_Z3	PHLPTOC1,Test control for outputs
-94	Deactive START_Z3	PHLPTOC1,Test control for outputs
-95	Activate START_Z4	PHLPTOC1,Test control for outputs
-96	Deactive START_Z4	PHLPTOC1,Test control for outputs
-97	Activate START_Z5	PHLPTOC1,Test control for outputs
-98	Deactive START_Z5	PHLPTOC1,Test control for outputs
-99	Activate LODDSR_GFC	PHLPTOC1,Test control for outputs
-100	Deactive LODDSR_GFC	PHLPTOC1,Test control for outputs
-101	Activate START_GFC	PHLPTOC1,Test control for outputs
-102	Deactive START_GFC	PHLPTOC1,Test control for outputs
-103	Activate ST_ALARM	PHLPTOC1,Test control for outputs
-104	Deactive ST_ALARM	PHLPTOC1,Test control for outputs
-105	Activate OPR_IRV	PHLPTOC1,Test control for outputs
-106	Deactive OPR_IRV	PHLPTOC1,Test control for outputs
-107	Activate OPR_WEI	PHLPTOC1,Test control for outputs
-108	Deactive OPR_WEI	PHLPTOC1,Test control for outputs
-109	Activate ECHO	PHLPTOC1,Test control for outputs
-110	Deactive ECHO	PHLPTOC1,Test control for outputs
-111	Activate CR	PHLPTOC1,Test control for outputs
-112	Deactive CR	PHLPTOC1,Test control for outputs
-113	Activate CS	PHLPTOC1,Test control for outputs
-114	Deactive CS	PHLPTOC1,Test control for outputs
-115	Activate CRL	PHLPTOC1,Test control for outputs
-116	Deactive CRL	PHLPTOC1,Test control for outputs
-117	Activate LCG	PHLPTOC1,Test control for outputs
-118	Deactive LCG	PHLPTOC1,Test control for outputs

-119	Activate OPR_OVL0D	PHLPTOC1,Test control for outputs
-120	Deactive OPR_OVL0D	PHLPTOC1,Test control for outputs
-121	Activate ST_OVL0D	PHLPTOC1,Test control for outputs
-122	Deactive ST_OVL0D	PHLPTOC1,Test control for outputs
-123	Activate OPR_UN_I	PHLPTOC1,Test control for outputs
-124	Deactive OPR_UN_I	PHLPTOC1,Test control for outputs
-125	Activate ST_UN_I	PHLPTOC1,Test control for outputs
-126	Deactive ST_UN_I	PHLPTOC1,Test control for outputs

7.2.7 ABBIED600_Rev5_TestProKind

Value	Description	Remarks
0	Reset	PHPTUV1,Test control for outputs
1	Activate START	PHPTUV1,Test control for outputs
2	Deactive START	PHPTUV1,Test control for outputs
3	Activate ST_A	PHPTUV1,Test control for outputs
4	Deactive ST_A	PHPTUV1,Test control for outputs
5	Activate ST_B	PHPTUV1,Test control for outputs
6	Deactive ST_B	PHPTUV1,Test control for outputs
7	Activate ST_C	PHPTUV1,Test control for outputs
8	Deactive ST_C	PHPTUV1,Test control for outputs
9	Activate OPERATE	PHPTUV1,Test control for outputs
10	Deactive OPERATE	PHPTUV1,Test control for outputs
11	Activate OPR_A	PHPTUV1,Test control for outputs
12	Deactive OPR_A	PHPTUV1,Test control for outputs
13	Activate OPR_B	PHPTUV1,Test control for outputs
14	Deactive OPR_B	PHPTUV1,Test control for outputs
15	Activate OPR_C	PHPTUV1,Test control for outputs
16	Deactive OPR_C	PHPTUV1,Test control for outputs
17	Activate ALARM	PHPTUV1,Test control for outputs
18	Deactive ALARM	PHPTUV1,Test control for outputs
19	Activate WARNING	PHPTUV1,Test control for outputs
20	Deactive WARNING	PHPTUV1,Test control for outputs
21	Activate BLK_CLOSE	PHPTUV1,Test control for outputs
22	Deactive BLK_CLOSE	PHPTUV1,Test control for outputs
23	Activate BLK_EF	PHPTUV1,Test control for outputs
24	Deactive BLK_EF	PHPTUV1,Test control for outputs
25	Activate ARC_FLT_DET	PHPTUV1,Test control for outputs
26	Deactive ARC_FLT_DET	PHPTUV1,Test control for outputs
27	Activate STR_LS_LOC	PHPTUV1,Test control for outputs
28	Deactive STR_LS_LOC	PHPTUV1,Test control for outputs
29	Activate STR_LS_REM	PHPTUV1,Test control for outputs
30	Deactive STR_LS_REM	PHPTUV1,Test control for outputs
31	Activate OPR_LS_LOC	PHPTUV1,Test control for outputs

32	Deactive OPR_LS_LOC	PHPTUV1,Test control for outputs
33	Activate OPR_LS_REM	PHPTUV1,Test control for outputs
34	Deactive OPR_LS_REM	PHPTUV1,Test control for outputs
35	Activate OPR_HS_LOC	PHPTUV1,Test control for outputs
36	Deactive OPR_HS_LOC	PHPTUV1,Test control for outputs
37	Activate OPR_HS_REM	PHPTUV1,Test control for outputs
38	Deactive OPR_HS_REM	PHPTUV1,Test control for outputs
39	Activate RSTD2H_LOC	PHPTUV1,Test control for outputs
40	Deactive RSTD2H_LOC	PHPTUV1,Test control for outputs
41	Activate RSTD2H_REM	PHPTUV1,Test control for outputs
42	Deactive RSTD2H_REM	PHPTUV1,Test control for outputs
43	Activate PROT_ACTIVE	PHPTUV1,Test control for outputs
44	Deactive PROT_ACTIVE	PHPTUV1,Test control for outputs
45	Activate RESTORE	PHPTUV1,Test control for outputs
46	Deactive RESTORE	PHPTUV1,Test control for outputs
47	Activate RELEASE	PHPTUV1,Test control for outputs
48	Deactive RELEASE	PHPTUV1,Test control for outputs
49	Activate OPR_IIT	PHPTUV1,Test control for outputs
50	Deactive OPR_IIT	PHPTUV1,Test control for outputs
51	Activate OPR_STALL	PHPTUV1,Test control for outputs
52	Deactive OPR_STALL	PHPTUV1,Test control for outputs
53	Activate MOT_START	PHPTUV1,Test control for outputs
54	Deactive MOT_START	PHPTUV1,Test control for outputs
55	Activate LOCK_START	PHPTUV1,Test control for outputs
56	Deactive LOCK_START	PHPTUV1,Test control for outputs
57	Activate BLK_RESTART	PHPTUV1,Test control for outputs
58	Deactive BLK_RESTART	PHPTUV1,Test control for outputs
59	Activate OPR_LS	PHPTUV1,Test control for outputs
60	Deactive OPR_LS	PHPTUV1,Test control for outputs
61	Activate OPR_HS	PHPTUV1,Test control for outputs
62	Deactive OPR_HS	PHPTUV1,Test control for outputs
63	Activate BLKD2H	PHPTUV1,Test control for outputs
64	Deactive BLKD2H	PHPTUV1,Test control for outputs
65	Activate BLKD5H	PHPTUV1,Test control for outputs
66	Deactive BLKD5H	PHPTUV1,Test control for outputs
67	Activate BLKDWAV	PHPTUV1,Test control for outputs
68	Deactive BLKDWAV	PHPTUV1,Test control for outputs
69	Activate OPR_UFRQ	PHPTUV1,Test control for outputs
70	Deactive OPR_UFRQ	PHPTUV1,Test control for outputs
71	Activate OPR_OFRQ	PHPTUV1,Test control for outputs
72	Deactive OPR_OFRQ	PHPTUV1,Test control for outputs
73	Activate OPR_FRG	PHPTUV1,Test control for outputs

74	Deactive OPR_FRG	PHPTUV1,Test control for outputs
75	Activate ST_UFRQ	PHPTUV1,Test control for outputs
76	Deactive ST_UFRQ	PHPTUV1,Test control for outputs
77	Activate ST_OFQR	PHPTUV1,Test control for outputs
78	Deactive ST_OFQR	PHPTUV1,Test control for outputs
79	Activate ST_FRG	PHPTUV1,Test control for outputs
80	Deactive ST_FRG	PHPTUV1,Test control for outputs
81	Activate ST_REST	PHPTUV1,Test control for outputs
82	Deactive ST_REST	PHPTUV1,Test control for outputs
83	Activate INT_BLKD	PHPTUV1,Test control for outputs
84	Deactive INT_BLKD	PHPTUV1,Test control for outputs
85	Activate COOL_ACTIVE	PHPTUV1,Test control for outputs
86	Deactive COOL_ACTIVE	PHPTUV1,Test control for outputs
87	Activate OPERATE_Z1	PHPTUV1,Test control for outputs
88	Deactive OPERATE_Z1	PHPTUV1,Test control for outputs
89	Activate OPERATE_Z2	PHPTUV1,Test control for outputs
90	Deactive OPERATE_Z2	PHPTUV1,Test control for outputs
91	Activate OPERATE_Z3	PHPTUV1,Test control for outputs
92	Deactive OPERATE_Z3	PHPTUV1,Test control for outputs
93	Activate OPERATE_Z4	PHPTUV1,Test control for outputs
94	Deactive OPERATE_Z4	PHPTUV1,Test control for outputs
95	Activate OPERATE_Z5	PHPTUV1,Test control for outputs
96	Deactive OPERATE_Z5	PHPTUV1,Test control for outputs
97	Activate START_Z1	PHPTUV1,Test control for outputs
98	Deactive START_Z1	PHPTUV1,Test control for outputs
99	Activate START_Z2	PHPTUV1,Test control for outputs
100	Deactive START_Z2	PHPTUV1,Test control for outputs
101	Activate START_Z3	PHPTUV1,Test control for outputs
102	Deactive START_Z3	PHPTUV1,Test control for outputs
103	Activate START_Z4	PHPTUV1,Test control for outputs
104	Deactive START_Z4	PHPTUV1,Test control for outputs
105	Activate START_Z5	PHPTUV1,Test control for outputs
106	Deactive START_Z5	PHPTUV1,Test control for outputs
107	Activate LODDSR_GFC	PHPTUV1,Test control for outputs
108	Deactive LODDSR_GFC	PHPTUV1,Test control for outputs
109	Activate START_GFC	PHPTUV1,Test control for outputs
110	Deactive START_GFC	PHPTUV1,Test control for outputs
111	Activate ST_ALARM	PHPTUV1,Test control for outputs
112	Deactive ST_ALARM	PHPTUV1,Test control for outputs
113	Activate OPR_OVL0D	PHPTUV1,Test control for outputs
114	Deactive OPR_OVL0D	PHPTUV1,Test control for outputs
115	Activate ST_OVL0D	PHPTUV1,Test control for outputs

116	Deactive ST_OVL0D	PHPTUV1,Test control for outputs
117	Activate OPR_UN_I	PHPTUV1,Test control for outputs
118	Deactive OPR_UN_I	PHPTUV1,Test control for outputs
119	Activate ST_UN_I	PHPTUV1,Test control for outputs
120	Deactive ST_UN_I	PHPTUV1,Test control for outputs
121	Activate INTR_EF	PHPTUV1,Test control for outputs
122	Deactive INTR_EF	PHPTUV1,Test control for outputs
123	Activate PEAK_IND	PHPTUV1,Test control for outputs
124	Deactive PEAK_IND	PHPTUV1,Test control for outputs
125	Activate ST_FRQ	PHPTUV1,Test control for outputs
126	Deactive ST_FRQ	PHPTUV1,Test control for outputs
-1	Activate OPR_FRQ	PHPTUV1,Test control for outputs
-2	Deactive OPR_FRQ	PHPTUV1,Test control for outputs
-3	Activate OPERATE_GFC	PHPTUV1,Test control for outputs
-4	Deactive OPERATE_GFC	PHPTUV1,Test control for outputs
-5	Activate XC_FLT	PHPTUV1,Test control for outputs
-6	Deactive XC_FLT	PHPTUV1,Test control for outputs
-7	Activate ARMED	PHPTUV1,Test control for outputs
-8	Deactive ARMED	PHPTUV1,Test control for outputs
-9	Activate OPR_ZA	PHPTUV1,Test control for outputs
-10	Deactive OPR_ZA	PHPTUV1,Test control for outputs
-11	Activate OPR_ZB	PHPTUV1,Test control for outputs
-12	Deactive OPR_ZB	PHPTUV1,Test control for outputs
-13	Activate OPR_ZN	PHPTUV1,Test control for outputs
-14	Deactive OPR_ZN	PHPTUV1,Test control for outputs
-15	Activate OPR_SEF_ZA	PHPTUV1,Test control for outputs
-16	Deactive OPR_SEF_ZA	PHPTUV1,Test control for outputs
-17	Activate OPR_SEF_ZB	PHPTUV1,Test control for outputs
-18	Deactive OPR_SEF_ZB	PHPTUV1,Test control for outputs
-19	Activate OPR_EX_ZA	PHPTUV1,Test control for outputs
-20	Deactive OPR_EX_ZA	PHPTUV1,Test control for outputs
-21	Activate OPR_EX_ZB	PHPTUV1,Test control for outputs
-22	Deactive OPR_EX_ZB	PHPTUV1,Test control for outputs
-23	Activate INT_BLKD_ZA	PHPTUV1,Test control for outputs
-24	Deactive INT_BLKD_ZA	PHPTUV1,Test control for outputs
-25	Activate INT_BLKD_ZB	PHPTUV1,Test control for outputs
-26	Deactive INT_BLKD_ZB	PHPTUV1,Test control for outputs
-27	Activate CT_OPEN	PHPTUV1,Test control for outputs
-28	Deactive CT_OPEN	PHPTUV1,Test control for outputs

7.2.8 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.

7.2.9 ABBIED600_Rev2_AutoReclosingKind

Value	Description	Remarks
-1	Not defined	STATUS,AR status signal for IEC61850
1	Ready	STATUS,AR status signal for IEC61850
2	InProgress	STATUS,AR status signal for IEC61850
3	Successful	STATUS,AR status signal for IEC61850
4	WaitingForTrip	STATUS,AR status signal for IEC61850
5	TripFromProtection	STATUS,AR status signal for IEC61850
6	FaultDisappeared	STATUS,AR status signal for IEC61850
7	WaitToComplete	STATUS,AR status signal for IEC61850
8	CBclosed	STATUS,AR status signal for IEC61850
9	CycleUnsuccessful	STATUS,AR status signal for IEC61850
10	Unsuccessful	STATUS,AR status signal for IEC61850
11	Aborted	STATUS,AR status signal for IEC61850

7.2.10 ABBIED600_Rev1_LiveDeadModeKind

Value	Description	Remarks
-1	Off	Live dead mode,Energizing check mode
1	Dead Line, Dead Bus	Live dead mode,Energizing check mode,Both Dead
2	Live Line, Dead Bus	Live dead mode,Energizing check mode,Live L, Dead B
3	Dead Line, Live Bus	Live dead mode,Energizing check mode,Dead L, Live B
4	Dead Line, Dead Bus OR Live Line, Dead Bus	Live dead mode,Energizing check mode,Dead Bus, L Any
5	Dead Line, Dead Bus OR Dead Line, Live Bus	Live dead mode,Energizing check mode,Dead L, Bus Any
6	Live Line, Dead Bus OR Dead Line, Live Bus	Live dead mode,Energizing check mode,One Live, Dead
7	Dead Line, Dead Bus OR Live Line, Dead Bus OR Dead Line, Live Bus	Live dead mode,Energizing check mode,Not Both Live

7.2.11 ABBIED600_Rev2_FaultLoopKind

Value	Description	Remarks
-5	No fault	FAULT_LOOP,Fault impedance loop
-4	PhaseAtoBtoCtoGround	FAULT_LOOP,Fault impedance loop,ABCG Fault
-3	PhaseCtoAGround	FAULT_LOOP,Fault impedance loop,CAG Fault
-2	PhaseBtoCGround	FAULT_LOOP,Fault impedance loop,BCG Fault
-1	PhaseAtoBGround	FAULT_LOOP,Fault impedance loop,ABG Fault
1	PhaseAtoGround	FAULT_LOOP,Fault impedance loop,AG Fault
2	PhaseBtoGround	FAULT_LOOP,Fault impedance loop,BG Fault
3	PhaseCtoGround	FAULT_LOOP,Fault impedance loop,CG Fault
4	PhaseAtoB	FAULT_LOOP,Fault impedance loop,AB Fault
5	PhaseBtoC	FAULT_LOOP,Fault impedance loop,BC Fault
6	PhaseCtoA	FAULT_LOOP,Fault impedance loop,CA Fault
7	Others	FAULT_LOOP,Fault impedance loop,ABC Fault



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