



Informe de archivo de configuración

Subestación:

Archivo: 000.x3v

Número del modelo: 618

Impreso en: 25/04/2025 10:30:20

Parameters	
Device ID	
DEVICE	
000.000: Device type:	139
002.120: Software version:	618.34
002.122: SW date:	27.02.12 dd.mm.yy
002.103: SW version communic.:	2.46
002.059: DM IEC 61850 version:	214
002.123: Language version:	800.0
002.121: Text vers.data model:	0
002.124: F number:	3.628345.0
001.000: AFS Order No.:	36904594
001.200: PCS Order No.:	P1393604594SS00K01
000.003: Order ext. No. 1:	308
000.004: Order ext. No. 2:	414
000.005: Order ext. No. 3:	947
000.006: Order ext. No. 4:	618
000.007: Order ext. No. 5:	734
000.008: Order ext. No. 6:	801
000.009: Order ext. No. 7:	0
000.010: Order ext. No. 8:	0
000.011: Order ext. No. 9:	0
000.012: Order ext. No. 10:	0
000.013: Order ext. No. 11:	0
000.014: Order ext. No. 12:	0
000.015: Order ext. No. 13:	0
000.016: Order ext. No. 14:	0
000.017: Order ext. No. 15:	0
000.018: Order ext. No. 16:	0
000.019: Order ext. No. 17:	0
000.020: Order ext. No. 18:	0
000.021: Order ext. No. 19:	0
000.022: Order ext. No. 20:	0
000.023: Order ext. No. 21:	0
000.024: Order ext. No. 22:	0
000.025: Order ext. No. 23:	0
000.026: Order ext. No. 24:	0
000.027: Order ext. No. 25:	0
000.028: Order ext. No. 26:	0
000.029: Order ext. No. 27:	0
086.050: Module var. slot 1:	Module P: 9650135
086.193: Module vers. slot 1:	Version M
086.051: Module var. slot 2:	Not fitted
086.194: Module vers. slot 2:	Not fitted
086.052: Module var. slot 3:	Not fitted
086.195: Module vers. slot 3:	Not fitted
086.053: Module var. slot 4:	Module T: 9650307
086.196: Module vers. slot 4:	Version I
086.054: Module var. slot 5:	Not fitted
086.197: Module vers. slot 5:	Not fitted
086.055: Module var. slot 6:	Module X: 0337377
086.198: Module vers. slot 6:	Version I
086.056: Module var. slot 7:	Module X: 0337377
086.199: Module vers. slot 7:	Version I
086.057: Module var. slot 8:	Module X: 0337612
086.200: Module vers. slot 8:	Version C
086.058: Module var. slot 9:	Module V: 0337191
086.201: Module vers. slot 9:	Version X
086.059: Module var. slot 10:	Module X: 0336973
086.202: Module vers. slot 10:	Version E
086.047: Variant of module A:	Module A: 9651471
086.190: Version of module A:	Version A
104.061: MAC address module A:	00-80-f4-78-0a-72
086.048: Variant of module L:	Module L: 9650319
086.191: Version of module L:	Version H
086.049: Variant of module B:	Module B: 0336187



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086.192:	Version of module B:	Version E
086.046:	Variant module B (a):	Module B: 0336421
086.189:	Version module B (a):	Version A
000.040:	Customer ID data 1:	0.00
000.041:	Customer ID data 2:	0.00
000.042:	Customer ID data 3:	0.00
000.043:	Customer ID data 4:	0.00
000.044:	Customer ID data 5:	0.00
000.045:	Customer ID data 6:	0.00
000.046:	Customer ID data 7:	0.00
000.047:	Customer ID data 8:	0.00
001.201:	Location:	
000.035:	Device ID:	0
000.036:	Substation ID:	0
000.037:	Feeder ID:	0
000.048:	Device password 1:	0
000.049:	Device password 2:	0
002.131:	SW version DHMI:	Not measured
002.132:	SW version DHMI DM:	1.10
LOC		
221.099:	Local HMI exists:	Yes
Config. parameters		
LOC		
003.020:	Language:	Reference language
003.021:	Decimal delimiter:	Dot
221.032:	Displ. ext.dev.desig:	With
221.070:	Display L/R:	With
221.071:	Displ. interl. stat.:	With
218.191:	Busbar1 Name by User:	
221.033:	Designation busbar 1:	BB1
218.192:	Busbar2-NameUser:	
221.034:	Designation busbar 2:	BB2
218.193:	Busbar3-NameUser:	
221.043:	Designation busbar 3:	BB3
218.195:	BB Sect.1-NameUser:	
221.035:	Designat. bus sect.1:	BSa
218.196:	BB Sect.2-NameUser:	
221.036:	Designat. bus sect.2:	BSb
221.038:	Character set:	Character set 1
225.208:	Fct. assign. L/R key:	R <-> L
005.251:	Fct. reset key:	MAIN General reset EXT -->
080.110:	Fct. read key:	Without function
030.238:	Fct. menu jmp list 1:	Without function
030.239:	Fct. menu jmp list 2:	Without function
053.007:	Fct. Operation Panel:	MAIN Voltage A-B prim. -->
053.005:	Fct. Overload Panel:	Without function
053.004:	Fct. Grd.Fault Panel:	Without function
053.003:	Fct. Fault Panel:	Without function
221.072:	Fct. Signal Panel:	Without function
221.073:	Aut.activ.Sign.Panel:	Activation off
221.074:	Stat.ind.Sign.Panel:	Filled box
221.075:	Indicat.Sign.Panel:	Without signalling
221.078:	Sign.caus.Sign.Panel:	All status changes
221.041:	Fct.asg. num. displ.:	Without function
221.042:	Fct. asg. bar displ.:	Without function
221.039:	Bar display type:	No bar display
221.044:	Scal. bar display I:	1.2 Inom
221.045:	Scal. bar display V:	1.2 Vnom
221.046:	Display bar scale:	Yes
031.075:	Hold-time for Panels:	5 s
031.072:	Hold-t. meas.v.displ:	Blocked
003.014:	Autom. return time:	60 s
221.030:	Return time select.:	60 s
003.023:	Return time illumin.:	60 s
PC		
003.068:	Bay address:	1



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003.069: Device address: 1
003.081: Baud rate: 115.2 kBaud
003.181: Parity bit: Even
003.187: Spontan. sig. enable: None
003.189: Select. spontan.sig.: Without function
003.084: Transm.enab.cycl.dat: Without
003.185: Cycl. data ILS tel.: Without function
003.055: Delta V: 3.0 %Vnom
003.056: Delta I: 3.0 %Inom
003.059: Delta P: 15.0 %Snom
003.057: Delta f: 2.0 %fnom
003.155: Delta meas.v.ILS tel: 3.0
003.058: Delta t: 1 min
003.188: Time-out: 1 min

COMM2
056.057: Function group COMM2: Without

IEC
056.059: Function group IEC: With
104.000: General enable USER: Yes
104.058: Enable configuration: don't execute
104.056: Ethernet media: Fiber
104.057: IED name: P139_F01
104.062: TCP keep-alive timer: 10 s
104.001: IP address: 192.168.0.36
104.005: Subnet mask: 255.255.255.0
104.011: Gateway address: 192.168.0.21
104.200: SNTP operating mode: Request from server
104.201: SNTP poll cycle time: 60 s
104.202: SNTP server 1 IP: 192.168.0.31
104.210: SNTP server 2 IP: 0.0.0.0
104.206: Diff. local time: 60 min
104.207: Diff. dayl.sav. time: 60 min
104.219: Switch.dayl.sav.time: Yes
104.220: Dayl.sav.time start: Last
104.221: Dayl.sav.time st. d: Sunday
104.222: Dayl.sav.time st. m: March
104.223: Dayl.sav.t.st.0:00 +: 120 min
104.225: Dayl.sav.time end: Last
104.226: Dayl.sav.time end d: Sunday
104.227: Dayl.sav.time end m: October
104.228: Dayl.sav.t.end 0:00+: 180 min
104.229: Update Measurements: 2 s
104.230: Dead band IP: 5
104.231: Dead band IN: 5
104.232: Dead band VPP: 5
104.233: Dead band VPG: 5
104.234: Dead band f: 5
104.235: Dead band P: 2
104.236: Dead band phi: 5
104.237: Dead band Z: 5
104.238: Dead band min/max: 100
104.239: Dead band ASC: 100
104.240: Dead band temp.: 100
104.241: Dead band 20mA: 100
104.060: Update cycle energy: Blocked
221.081: DEV control model: Direct enh. security

GOOSE
056.068: Function group GOOSE: Without

GSSE
056.060: Function group GSSE: Without

INP
010.220: Filter: 0
152.091: Fct. assignm. U 601: DEV01 Open signal EXT
152.094: Fct. assignm. U 602: DEV01 Closed signal EXT
152.097: Fct. assignm. U 603: DEV02 Open signal EXT
152.100: Fct. assignm. U 604: DEV02 Closed signal EXT



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152.103: Fct. assignm. U 605:	DEV03 Open signal EXT
152.106: Fct. assignm. U 606:	DEV03 Closed signal EXT
152.109: Fct. assignm. U 701:	Without function
152.112: Fct. assignm. U 702:	Without function
152.115: Fct. assignm. U 703:	DEV05 Open signal EXT
152.118: Fct. assignm. U 704:	DEV05 Closed signal EXT
152.121: Fct. assignm. U 705:	DEV06 Open signal EXT
152.124: Fct. assignm. U 706:	DEV06 Closed signal EXT
184.002: Fct. assignm. U 801:	SIG_1 Signal S013 EXT
184.006: Fct. assignm. U 802:	SIG_1 Signal S014 EXT
184.010: Fct. assignm. U 803:	SIG_1 Signal S015 EXT
184.014: Fct. assignm. U 804:	SIG_1 Signal S016 EXT
184.018: Fct. assignm. U 805:	SIG_1 Signal S017 EXT
184.022: Fct. assignm. U 806:	SIG_1 Signal S018 EXT
184.026: Fct. assignm. U 807:	SIG_1 Signal S019 EXT
184.030: Fct. assignm. U 808:	Without function
184.034: Fct. assignm. U 809:	Without function
184.038: Fct. assignm. U 810:	Without function
184.042: Fct. assignm. U 811:	Without function
184.046: Fct. assignm. U 812:	Without function
184.050: Fct. assignm. U 813:	Without function
184.054: Fct. assignm. U 814:	Without function
184.058: Fct. assignm. U 815:	Without function
184.062: Fct. assignm. U 816:	Without function
184.066: Fct. assignm. U 817:	Without function
184.070: Fct. assignm. U 818:	SIG_1 Signal S030 EXT
184.074: Fct. assignm. U 819:	SIG_1 Signal S031 EXT
184.078: Fct. assignm. U 820:	SIG_1 Signal S032 EXT
184.082: Fct. assignm. U 821:	SIG_1 Signal S033 EXT
184.086: Fct. assignm. U 822:	MAIN M.c.b. trip V EXT
184.090: Fct. assignm. U 823:	Without function
184.094: Fct. assignm. U 824:	SIG_1 Signal S036 EXT
152.145: Fct. assignm. U 901:	MAIN Test mode EXT
152.148: Fct. assignm. U 902:	SIG_1 Signal S038 EXT
152.151: Fct. assignm. U 903:	Without function
152.154: Fct. assignm. U 904:	Without function
152.092: Oper. mode U 601:	Active "high"
152.095: Oper. mode U 602:	Active "high"
152.098: Oper. mode U 603:	Active "high"
152.101: Oper. mode U 604:	Active "high"
152.104: Oper. mode U 605:	Active "high"
152.107: Oper. mode U 606:	Active "high"
152.110: Oper. mode U 701:	Active "high"
152.113: Oper. mode U 702:	Active "high"
152.116: Oper. mode U 703:	Active "high"
152.119: Oper. mode U 704:	Active "high"
152.122: Oper. mode U 705:	Active "high"
152.125: Oper. mode U 706:	Active "high"
184.003: Oper. mode U 801:	Active "high"
184.007: Oper. mode U 802:	Active "high"
184.011: Oper. mode U 803:	Active "high"
184.015: Oper. mode U 804:	Active "high"
184.019: Oper. mode U 805:	Active "high"
184.023: Oper. mode U 806:	Active "high"
184.027: Oper. mode U 807:	Active "low"
184.031: Oper. mode U 808:	Active "high"
184.035: Oper. mode U 809:	Active "high"
184.039: Oper. mode U 810:	Active "high"
184.043: Oper. mode U 811:	Active "high"
184.047: Oper. mode U 812:	Active "high"
184.051: Oper. mode U 813:	Active "high"
184.055: Oper. mode U 814:	Active "high"
184.059: Oper. mode U 815:	Active "high"
184.063: Oper. mode U 816:	Active "high"
184.067: Oper. mode U 817:	Active "high"
184.071: Oper. mode U 818:	Active "high"



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184.075: Oper. mode U 819: Active "high"
184.079: Oper. mode U 820: Active "high"
184.083: Oper. mode U 821: Active "high"
184.087: Oper. mode U 822: Active "high"
184.091: Oper. mode U 823: Active "high"
184.095: Oper. mode U 824: Active "low"
152.146: Oper. mode U 901: Active "low"
152.149: Oper. mode U 902: Active "high"
152.152: Oper. mode U 903: Active "high"
152.155: Oper. mode U 904: Active "high"

 OUTP

150.121: Fct. assignm. K 601: DEV01 Open command
150.124: Fct. assignm. K 602: DEV01 Close command
150.127: Fct. assignm. K 603: DEV02 Open command
150.130: Fct. assignm. K 604: DEV02 Close command
150.133: Fct. assignm. K 605: DEV03 Open command
150.136: Fct. assignm. K 606: DEV03 Close command
150.145: Fct. assignm. K 701: MAIN General starting
150.148: Fct. assignm. K 702: Without function
150.151: Fct. assignm. K 703: DEV05 Open command
150.154: Fct. assignm. K 704: DEV05 Close command
150.157: Fct. assignm. K 705: DEV06 Open command
150.160: Fct. assignm. K 706: DEV06 Close command
150.193: Fct. assignm. K 901: MAIN Gen. trip command
150.196: Fct. assignm. K 902: MAIN Gen. trip command
150.199: Fct. assignm. K 903: MAIN Gen. trip command
150.202: Fct. assignm. K 904: Without function
150.205: Fct. assignm. K 905: Without function
150.208: Fct. assignm. K 906: SFMON Warning (relay)
150.211: Fct. assignm. K 907: Without function
150.214: Fct. assignm. K 908: Without function
150.217: Fct. assignm. K 1001: Without function
150.220: Fct. assignm. K 1002: Without function
150.223: Fct. assignm. K 1003: Without function
150.226: Fct. assignm. K 1004: Without function
150.229: Fct. assignm. K 1005: Without function
150.232: Fct. assignm. K 1006: Without function
150.122: Oper. mode K 601: ES updating
150.125: Oper. mode K 602: ES updating
150.128: Oper. mode K 603: ES updating
150.131: Oper. mode K 604: ES updating
150.134: Oper. mode K 605: ES updating
150.137: Oper. mode K 606: ES updating
150.146: Oper. mode K 701: ES updating
150.149: Oper. mode K 702: ES updating
150.152: Oper. mode K 703: ES updating
150.155: Oper. mode K 704: ES updating
150.158: Oper. mode K 705: ES updating
150.161: Oper. mode K 706: ES updating
150.194: Oper. mode K 901: ES updating
150.197: Oper. mode K 902: ES updating
150.200: Oper. mode K 903: ES updating
150.203: Oper. mode K 904: ES updating
150.206: Oper. mode K 905: ES updating
150.209: Oper. mode K 906: ES updating
150.212: Oper. mode K 907: ES updating
150.215: Oper. mode K 908: ES updating
150.218: Oper. mode K 1001: ES updating
150.221: Oper. mode K 1002: ES updating
150.224: Oper. mode K 1003: ES updating
150.227: Oper. mode K 1004: ES updating
150.230: Oper. mode K 1005: ES updating
150.233: Oper. mode K 1006: ES updating

 MEASO

056.020: Function group MEASO: Without

 LED



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085.184: Fct.assig. H 1 green: MAIN Healthy
085.001: Fct.assig. H 2 yell.: MAIN Blocked/faulty
085.004: Fct.assig. H 3 yell.: SFMON Warning (LED)
085.007: Fct.assig. H 4 red: MAIN Gen. trip signal
085.010: Fct.assig. H 5 red: MAIN Starting A
085.013: Fct.assig. H 6 red: MAIN Starting B
085.016: Fct.assig. H 7 red: MAIN Starting C
085.019: Fct.assig. H 8 red: Without function
085.022: Fct.assig. H 9 red: DTOC Trip signal tI>
085.025: Fct.assig. H10 red: DTOC Trip signal tI>>
085.028: Fct.assig. H11 red: V<> tV< elapsed
085.031: Fct.assig. H12 red: V<> tV> elapsed
085.034: Fct.assig. H13 red: V<> tV>> elapsed
085.037: Fct.assig. H14 red: Without function
085.040: Fct.assig. H15 red: Without function
085.043: Fct.assig. H16 red: IEC Comm. link faulty
085.185: Fct.assig. H17 red: LOC Edit mode
085.182: Operating mode H 1: ES updating
085.002: Operating mode H 2: ES updating
085.005: Operating mode H 3: ES updating
085.008: Operating mode H 4: ES reset (fault)
085.011: Operating mode H 5: ES reset (fault)
085.014: Operating mode H 6: ES reset (fault)
085.017: Operating mode H 7: ES reset (fault)
085.020: Operating mode H 8: ES reset (fault)
085.023: Operating mode H 9: ES reset (fault)
085.026: Operating mode H 10: ES reset (fault)
085.029: Operating mode H 11: ES reset (fault)
085.032: Operating mode H 12: ES reset (fault)
085.035: Operating mode H 13: ES reset (fault)
085.038: Operating mode H 14: ES updating
085.041: Operating mode H 15: ES updating
085.044: Operating mode H 16: ES updating
085.183: Operating mode H 17: ES updating

MAIN

220.000: Type of bay: 999
221.062: Customized bay type: 9046
103.210: Prim.Source TimeSync: COMM1/IEC
103.211: BackupSourceTimeSync: COMM2/PC
103.212: Time sync. time-out: Blocked

FT_RC

035.160: Rec. analog chann. 1: Current IA
035.161: Rec. analog chann. 2: Current IB
035.162: Rec. analog chann. 3: Current IC
035.163: Rec. analog chann. 4: Voltage A-G
035.164: Rec. analog chann. 5: Voltage B-G
035.165: Rec. analog chann. 6: Voltage C-G
035.166: Rec. analog chann. 7: Current IN
035.167: Rec. analog chann. 8: Voltage VNG

DTOC

056.008: Function group DTOC: With

IDMT1

056.009: Function group IDMT1: Without

IDMT2

056.013: Function group IDMT2: Without

SCDD

056.021: Function group SCDD: With

SOTF

056.003: Function group SOTF: Without

PSIG

056.004: Function group PSIG: Without

ARC

056.005: Function group ARC: Without

GFDSS

056.012: Function group GFDSS: Without

MP



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	056.022: Function group MP:	Without
THERM		
	056.023: Function group THERM:	Without
I2>		
	056.024: Function group I2>:	Without
V<>		
	056.010: Function group V<>:	With
f<>		
	056.033: Function group f<>:	Without
P<>		
	056.045: Function group P<>:	Without
CBF		
	056.007: Function group CBF:	With
CBM		
	056.062: Function group CBM:	Without
MCMON		
	056.015: Function group MCMON:	With
LIMIT		
	056.025: Function group LIMIT:	Without
LOGIC		
	056.017: Function group LOGIC:	With
DEV01		
	210.047: Function group DEV01:	With
DEV02		
	210.097: Function group DEV02:	With
DEV03		
	210.147: Function group DEV03:	With
DEV04		
	210.197: Function group DEV04:	Without
DEV05		
	210.247: Function group DEV05:	With
DEV06		
	211.047: Function group DEV06:	With
DEV07		
	211.097: Function group DEV07:	Without
DEV08		
	211.147: Function group DEV08:	Without
DEV09		
	211.197: Function group DEV09:	Without
DEV10		
	211.247: Function group DEV10:	Without
CMD_1		
	249.252: Function group CMD_1:	With
	200.004: Command C001 config.:	No
	200.009: Command C002 config.:	No
	200.014: Command C003 config.:	No
	200.019: Command C004 config.:	No
	200.024: Command C005 config.:	No
	200.029: Command C006 config.:	No
	200.034: Command C007 config.:	No
	200.039: Command C008 config.:	No
	200.044: Command C009 config.:	No
	200.049: Command C010 config.:	No
	200.054: Command C011 config.:	No
	200.059: Command C012 config.:	No
	200.064: Command C013 config.:	No
	200.069: Command C014 config.:	No
	200.074: Command C015 config.:	No
	200.079: Command C016 config.:	No
	200.084: Command C017 config.:	No
	200.089: Command C018 config.:	No
	200.094: Command C019 config.:	No
	200.099: Command C020 config.:	No
	200.104: Command C021 config.:	No
	200.109: Command C022 config.:	No
	200.114: Command C023 config.:	No



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200.119: Command C024 config.: No
200.124: Command C025 config.: No
200.129: Command C026 config.: No

SIG_1

249.250: Function group SIG_1: With
226.007: Signal S001 config.: Yes
226.015: Signal S002 config.: No
226.023: Signal S003 config.: No
226.031: Signal S004 config.: No
226.039: Signal S005 config.: No
226.047: Signal S006 config.: No
226.055: Signal S007 config.: No
226.063: Signal S008 config.: No
226.071: Signal S009 config.: No
226.079: Signal S010 config.: No
226.087: Signal S011 config.: No
226.095: Signal S012 config.: No
226.103: Signal S013 config.: Yes
226.111: Signal S014 config.: Yes
226.119: Signal S015 config.: Yes
226.127: Signal S016 config.: Yes
226.135: Signal S017 config.: Yes
226.143: Signal S018 config.: Yes
226.151: Signal S019 config.: Yes
226.159: Signal S020 config.: Yes
226.167: Signal S021 config.: Yes
226.175: Signal S022 config.: Yes
226.183: Signal S023 config.: Yes
226.191: Signal S024 config.: Yes
226.199: Signal S025 config.: Yes
226.207: Signal S026 config.: Yes
226.215: Signal S027 config.: Yes
226.223: Signal S028 config.: Yes
226.231: Signal S029 config.: Yes
226.239: Signal S030 config.: Yes
226.247: Signal S031 config.: Yes
226.255: Signal S032 config.: Yes
227.007: Signal S033 config.: Yes
227.015: Signal S034 config.: Yes
227.023: Signal S035 config.: Yes
227.031: Signal S036 config.: Yes
227.039: Signal S037 config.: Yes
227.047: Signal S038 config.: Yes
227.055: Signal S039 config.: No
227.063: Signal S040 config.: No

COUNT

217.047: Function group COUNT: Without

Function parameters

Global

PC

003.182: Command blocking: No
003.086: Sig./meas.val.block.: No

OUTP

021.014: Outp.rel.block USER: No

MAIN

003.030: Device on-line: Yes (= on)
003.012: Test mode USER: No
010.030: Nominal frequ. from: 50 Hz
010.049: Phase sequence: A - B - C
221.098: Time tag: 1stEdge,OpMem sorted
010.001: Inom C.T. prim.: 400 A
010.018: IN,nom C.T. prim.: 400 A
010.002: Vnom V.T. prim.: 66.0 kV
010.027: VNG,nom V.T. prim.: 66.0 kV
010.003: Inom device: 5.0 A
010.026: IN,nom device: 5.0 A



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010.009: Vnom V.T. sec.: 120 V
010.028: VNG,nom V.T. sec.: 120 V
010.004: Conn. meas. circ. IP: Opposite
010.019: Conn. meas. circ. IN: Opposite
006.096: Meas. direction P,Q: Standard
011.030: Meas. value rel. IP: 0.008 Inom
011.031: Meas. value rel. IN: 0.008 IN,nom
011.032: Meas. value rel. V: 0.000 Vnom
011.033: Meas. val. rel. VNG: 0.000 VNG,nom
010.138: Op. mode energy cnt.: Procedure 1
010.113: Settl. t. IP,max,del: 15.0 min
005.248: Fct.assign. reset 1: Without function
005.249: Fct.assign. reset 2: Without function
021.021: Fct.assign. block. 1: Without function
021.022: Fct.assign. block. 2: Without function
021.031: Fct. assign. fault: Without function
021.012: Trip cmd.block. USER: No
021.001: Fct.assign.trip cmd.1: DTOC Trip signal tI> -->
021.002: Fct.assign.trip cmd.2: Without function
021.003: Min.dur. trip cmd. 1: 0.25 s
021.004: Min.dur. trip cmd. 2: 0.25 s
021.023: Latching trip cmd. 1: No
021.024: Latching trip cmd. 2: No
015.067: Close cmd.pulse time: 0.25 s
021.017: Sig. asg. CB open: Without function
021.020: Sig. asg. CB closed: Without function
221.200: Debounce time gr. 1: 0.02 s
221.201: Chatt.mon. time gr.1: 0.0 s
221.202: Change of state gr.1: 0
221.203: Debounce time gr. 2: 0.02 s
221.204: Chatt.mon. time gr.2: 0.0 s
221.205: Change of state gr.2: 0
221.206: Debounce time gr. 3: 0.02 s
221.207: Chatt.mon. time gr.3: 0.0 s
221.208: Change of state gr.3: 0
221.209: Debounce time gr. 4: 0.02 s
221.210: Chatt.mon. time gr.4: 0.0 s
221.211: Change of state gr.4: 0
221.212: Debounce time gr. 5: 0.02 s
221.213: Chatt.mon. time gr.5: 0.0 s
221.214: Change of state gr.5: 0
221.215: Debounce time gr. 6: 0.02 s
221.216: Chatt.mon. time gr.6: 0.0 s
221.217: Change of state gr.6: 0
221.218: Debounce time gr. 7: 0.02 s
221.219: Chatt.mon. time gr.7: 0.0 s
221.220: Change of state gr.7: 0
221.221: Debounce time gr. 8: 0.02 s
221.222: Chatt.mon. time gr.8: 0.0 s
221.223: Change of state gr.8: 0
221.230: Cmd. dur.long cmd.: 20 s
221.231: Cmd. dur. short cmd.: 1 s
221.061: Electrical control: Remote
221.079: Delay Man.Op.Superv.: 3 s
221.063: W. ext. cmd. termin.: No
221.057: Inp.asg. ctrl.enabl.: Without function
221.007: Inp.asg.interl.deact: Without function
221.008: Inp.asg. L/R key sw.: Without function
221.065: Auto-assignment I/O: Yes
221.010: Inp.assign. tripping: Without function
221.012: Prot.trip>CB tripped: Without function
221.013: Inp. asg. CB trip: Without function
221.050: Inp.asg.CB tr.en.ext: Without function
221.024: Inp.asg. CB trip ext: Without function
221.051: Inp.asg. mult.sig. 1: Without function
221.052: Inp.asg. mult.sig. 2: Without function



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PSS	003.100: Control via USER:	No
PSS	003.060: Param.subs.sel. USER:	Parameter subset 1
PSS	003.063: Keep time:	Blocked
SFMON	021.030: Fct. assign. warning:	SFMON Meas. circ. I faulty -->
SFMON	021.018: Mon.sig. retention:	Blocked
FT_DA	010.005: Line length:	10.00 km
FT_DA	010.012: Line reactance:	2.000 —
FT_DA	012.036: Angle kG:	0 °
FT_DA	012.037: Abs. value kG:	1.00
FT_DA	010.011: Start data acquisit.:	End of fault
FT_DA	010.032: Output fault locat.:	On general starting
FT_RC	003.085: Fct. assign. trigger:	CBF Trip command t1 -->
FT_RC	017.065: I>:	Blocked
FT_RC	003.078: Pre-fault time:	5 Periods
FT_RC	003.079: Post-fault time:	2 Periods
FT_RC	003.075: Max. recording time:	50 Periods
General functions		
MAIN	018.008: Syst.IN enabled USER:	Yes
DTC	022.075: General enable USER:	Yes
SCDD	017.070: General enable USER:	No
V<>	023.030: General enable USER:	Yes
CBF	022.080: General enable USER:	Yes
CBF	022.154: Start with man. trip:	No
CBF	022.159: Fct.assignm. CBAux.:	Without function
CBF	022.160: I<:	0.10 Inom
CBF	022.165: t1 3p:	0.20 s
CBF	022.166: t2:	0.25 s
CBF	022.167: Min.dur. trip cmd.t1:	0.25 s
CBF	022.168: Min.dur. trip cmd.t2:	0.25 s
CBF	022.169: Latching trip cmd.t1:	No
CBF	022.170: Latching trip cmd.t2:	No
CBF	022.155: Delay/starting trig.:	0.00 s
CBF	022.171: Delay/fault beh. CB:	0.12 s
CBF	022.172: Delay/CB sync.superv:	Blocked
MCMON	014.001: General enable USER:	Yes
MCMON	017.028: Op. mode Idiff>:	IA, IB, IC
MCMON	017.024: Idiff>:	0.30 IP,max
MCMON	018.079: Op. mode Vmin< monit:	Vmin<
MCMON	017.022: Vmin<:	Blocked
MCMON	017.023: Operate delay:	5.00 s
MCMON	018.019: Phase sequ. monitor.:	Yes
LOGIC	031.099: General enable USER:	Yes
LOGIC	034.030: Set 1 USER:	No
LOGIC	034.031: Set 2 USER:	No
LOGIC	034.032: Set 3 USER:	No
LOGIC	034.033: Set 4 USER:	No
LOGIC	034.034: Set 5 USER:	No
LOGIC	034.035: Set 6 USER:	No
LOGIC	034.036: Set 7 USER:	No
LOGIC	034.037: Set 8 USER:	No
LOGIC	030.000: Fct.assignm. outp. 1:	Without function
LOGIC	030.001: Op. mode t output 1:	Without timer stage
LOGIC	030.002: Time t1 output 1:	0.00 s
LOGIC	030.003: Time t2 output 1:	0.00 s
LOGIC	044.000: Sig.assign. outp. 1:	Without function



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044.001: Sig.assig.outp. 1(t):	Without function
030.004: Fct.assignm. outp. 2:	SCDD Ground fault forward -->
030.005: Op. mode t output 2:	Without timer stage
030.006: Time t1 output 2:	0.00 s
030.007: Time t2 output 2:	0.00 s
044.002: Sig.assig. outp. 2:	Without function
044.003: Sig.assig.outp. 2(t):	Without function
030.008: Fct.assignm. outp. 3:	Without function
030.009: Op. mode t output 3:	Without timer stage
030.010: Time t1 output 3:	0.00 s
030.011: Time t2 output 3:	0.00 s
044.004: Sig.assig. outp. 3:	Without function
044.005: Sig.assig.outp. 3(t):	Without function
030.012: Fct.assignm. outp. 4:	Without function
030.013: Op. mode t output 4:	Without timer stage
030.014: Time t1 output 4:	0.00 s
030.015: Time t2 output 4:	0.00 s
044.006: Sig.assig. outp. 4:	Without function
044.007: Sig.assig.outp. 4(t):	Without function
030.016: Fct.assignm. outp. 5:	Without function
030.017: Op. mode t output 5:	Without timer stage
030.018: Time t1 output 5:	0.00 s
030.019: Time t2 output 5:	0.00 s
044.008: Sig.assig. outp. 5:	Without function
044.009: Sig.assig.outp. 5(t):	Without function
030.020: Fct.assignm. outp. 6:	Without function
030.021: Op. mode t output 6:	Without timer stage
030.022: Time t1 output 6:	0.00 s
030.023: Time t2 output 6:	0.00 s
044.010: Sig.assig. outp. 6:	Without function
044.011: Sig.assig.outp. 6(t):	Without function
030.024: Fct.assignm. outp. 7:	Without function
030.025: Op. mode t output 7:	Without timer stage
030.026: Time t1 output 7:	0.00 s
030.027: Time t2 output 7:	0.00 s
044.012: Sig.assig. outp. 7:	Without function
044.013: Sig.assig.outp. 7(t):	Without function
030.028: Fct.assignm. outp. 8:	Without function
030.029: Op. mode t output 8:	Without timer stage
030.030: Time t1 output 8:	0.00 s
030.031: Time t2 output 8:	0.00 s
044.014: Sig.assig. outp. 8:	Without function
044.015: Sig.assig.outp. 8(t):	Without function
030.032: Fct.assignm. outp. 9:	Without function
030.033: Op. mode t output 9:	Without timer stage
030.034: Time t1 output 9:	0.00 s
030.035: Time t2 output 9:	0.00 s
044.016: Sig.assig. outp. 9:	Without function
044.017: Sig.assig.outp. 9(t):	Without function
030.036: Fct.assignm. outp.10:	Without function
030.037: Op. mode t output 10:	Without timer stage
030.038: Time t1 output 10:	0.00 s
030.039: Time t2 output 10:	0.00 s
044.018: Sig.assig. outp. 10:	Without function
044.019: Sig.assig.outp.10(t):	Without function
030.040: Fct.assignm. outp.11:	Without function
030.041: Op. mode t output 11:	Without timer stage
030.042: Time t1 output 11:	0.00 s
030.043: Time t2 output 11:	0.00 s
044.020: Sig.assig. outp. 11:	Without function
044.021: Sig.assig.outp.11(t):	Without function
030.044: Fct.assignm. outp.12:	Without function
030.045: Op. mode t output 12:	Without timer stage
030.046: Time t1 output 12:	0.00 s
030.047: Time t2 output 12:	0.00 s
044.022: Sig.assig. outp. 12:	Without function



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044.023: Sig.assig.outp.12(t):	Without function
030.048: Fct.assignm. outp.13:	Without function
030.049: Op. mode t output 13:	Without timer stage
030.050: Time t1 output 13:	0.00 s
030.051: Time t2 output 13:	0.00 s
044.024: Sig.assig. outp. 13:	Without function
044.025: Sig.assig.outp.13(t):	Without function
030.052: Fct.assignm. outp.14:	Without function
030.053: Op. mode t output 14:	Without timer stage
030.054: Time t1 output 14:	0.00 s
030.055: Time t2 output 14:	0.00 s
044.026: Sig.assig. outp. 14:	Without function
044.027: Sig.assig.outp.14(t):	Without function
030.056: Fct.assignm. outp.15:	Without function
030.057: Op. mode t output 15:	Without timer stage
030.058: Time t1 output 15:	0.00 s
030.059: Time t2 output 15:	0.00 s
044.028: Sig.assig. outp. 15:	Without function
044.029: Sig.assig.outp.15(t):	Without function
030.060: Fct.assignm. outp.16:	Without function
030.061: Op. mode t output 16:	Without timer stage
030.062: Time t1 output 16:	0.00 s
030.063: Time t2 output 16:	0.00 s
044.030: Sig.assig. outp. 16:	Without function
044.031: Sig.assig.outp.16(t):	Without function
030.064: Fct.assignm. outp.17:	MAIN Test mode
030.065: Op. mode t output 17:	Without timer stage
030.066: Time t1 output 17:	0.00 s
030.067: Time t2 output 17:	0.00 s
044.032: Sig.assig. outp. 17:	SIG_1 Signal S037 EXT
044.033: Sig.assig.outp.17(t):	Without function
030.068: Fct.assignm. outp.18:	DEV01 Open command
030.069: Op. mode t output 18:	Oper./releas.delay
030.070: Time t1 output 18:	0.00 s
030.071: Time t2 output 18:	1.50 s
044.034: Sig.assig. outp. 18:	Without function
044.035: Sig.assig.outp.18(t):	SIG_1 Signal S001 EXT
030.072: Fct.assignm. outp.19:	Without function
030.073: Op. mode t output 19:	Without timer stage
030.074: Time t1 output 19:	0.00 s
030.075: Time t2 output 19:	0.00 s
044.036: Sig.assig. outp. 19:	Without function
044.037: Sig.assig.outp.19(t):	Without function
030.076: Fct.assignm. outp.20:	Without function
030.077: Op. mode t output 20:	Without timer stage
030.078: Time t1 output 20:	0.00 s
030.079: Time t2 output 20:	0.00 s
044.038: Sig.assig. outp. 20:	Without function
044.039: Sig.assig.outp.20(t):	Without function
030.080: Fct.assignm. outp.21:	Without function
030.081: Op. mode t output 21:	Without timer stage
030.082: Time t1 output 21:	0.00 s
030.083: Time t2 output 21:	0.00 s
044.040: Sig.assig. outp. 21:	Without function
044.041: Sig.assig.outp.21(t):	Without function
030.084: Fct.assignm. outp.22:	Without function
030.085: Op. mode t output 22:	Without timer stage
030.086: Time t1 output 22:	0.00 s
030.087: Time t2 output 22:	0.00 s
044.042: Sig.assig. outp. 22:	Without function
044.043: Sig.assig.outp.22(t):	Without function
030.088: Fct.assignm. outp.23:	Without function
030.089: Op. mode t output 23:	Without timer stage
030.090: Time t1 output 23:	0.00 s
030.091: Time t2 output 23:	0.00 s
044.044: Sig.assig. outp. 23:	Without function



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044.045:	Sig.assig.outp.23(t):	Without function
030.092:	Fct.assignm. outp.24:	Without function
030.093:	Op. mode t output 24:	Without timer stage
030.094:	Time t1 output 24:	0.00 s
030.095:	Time t2 output 24:	0.00 s
044.046:	Sig.assig. outp. 24:	Without function
044.047:	Sig.assig.outp.24(t):	Without function
030.096:	Fct.assignm. outp.25:	Without function
030.097:	Op. mode t output 25:	Without timer stage
030.098:	Time t1 output 25:	0.00 s
030.099:	Time t2 output 25:	0.00 s
044.048:	Sig.assig. outp. 25:	Without function
044.049:	Sig.assig.outp.25(t):	Without function
031.000:	Fct.assignm. outp.26:	Without function
031.001:	Op. mode t output 26:	Without timer stage
031.002:	Time t1 output 26:	0.00 s
031.003:	Time t2 output 26:	0.00 s
044.050:	Sig.assig. outp. 26:	Without function
044.051:	Sig.assig.outp.26(t):	Without function
031.004:	Fct.assignm. outp.27:	Without function
031.005:	Op. mode t output 27:	Without timer stage
031.006:	Time t1 output 27:	0.00 s
031.007:	Time t2 output 27:	0.00 s
044.052:	Sig.assig. outp. 27:	Without function
044.053:	Sig.assig.outp.27(t):	Without function
031.008:	Fct.assignm. outp.28:	Without function
031.009:	Op. mode t output 28:	Without timer stage
031.010:	Time t1 output 28:	0.00 s
031.011:	Time t2 output 28:	0.00 s
044.054:	Sig.assig. outp. 28:	Without function
044.055:	Sig.assig.outp.28(t):	Without function
031.012:	Fct.assignm. outp.29:	Without function
031.013:	Op. mode t output 29:	Without timer stage
031.014:	Time t1 output 29:	0.00 s
031.015:	Time t2 output 29:	0.00 s
044.056:	Sig.assig. outp. 29:	Without function
044.057:	Sig.assig.outp.29(t):	Without function
031.016:	Fct.assignm. outp.30:	Without function
031.017:	Op. mode t output 30:	Without timer stage
031.018:	Time t1 output 30:	0.00 s
031.019:	Time t2 output 30:	0.00 s
044.058:	Sig.assig. outp. 30:	Without function
044.059:	Sig.assig.outp.30(t):	Without function
031.020:	Fct.assignm. outp.31:	Without function
031.021:	Op. mode t output 31:	Without timer stage
031.022:	Time t1 output 31:	0.00 s
031.023:	Time t2 output 31:	0.00 s
044.060:	Sig.assig. outp. 31:	Without function
044.061:	Sig.assig.outp.31(t):	Without function
031.024:	Fct.assignm. outp.32:	MAIN General starting
031.025:	Op. mode t output 32:	Without timer stage
031.026:	Time t1 output 32:	0.00 s
031.027:	Time t2 output 32:	0.00 s
044.062:	Sig.assig. outp. 32:	Without function
044.063:	Sig.assig.outp.32(t):	Without function
SIG_1		
226.000:	Designat. sig. S001:	S001
226.001:	Oper. mode sig. S001:	Start/end signal
226.003:	Gr.asg. debounc.S001:	Group 1
226.002:	Min. sig. dur. S001:	0 s
226.096:	Designat. sig. S013:	S013
226.097:	Oper. mode sig. S013:	Start/end signal
226.099:	Gr.asg. debounc.S013:	Group 1
226.098:	Min. sig. dur. S013:	0 s
226.104:	Designat. sig. S014:	S014
226.105:	Oper. mode sig. S014:	Start/end signal



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226.107: Gr.asg. debounc.S014:	Group 1
226.106: Min. sig. dur. S014:	0 s
226.112: Designat. sig. S015:	S015
226.113: Oper. mode sig. S015:	Start/end signal
226.115: Gr.asg. debounc.S015:	Group 1
226.114: Min. sig. dur. S015:	0 s
226.120: Designat. sig. S016:	S016
226.121: Oper. mode sig. S016:	Start/end signal
226.123: Gr.asg. debounc.S016:	Group 1
226.122: Min. sig. dur. S016:	0 s
226.128: Designat. sig. S017:	S017
226.129: Oper. mode sig. S017:	Start/end signal
226.131: Gr.asg. debounc.S017:	Group 1
226.130: Min. sig. dur. S017:	0 s
226.136: Designat. sig. S018:	S018
226.137: Oper. mode sig. S018:	Start/end signal
226.139: Gr.asg. debounc.S018:	Group 1
226.138: Min. sig. dur. S018:	0 s
226.144: Designat. sig. S019:	S019
226.145: Oper. mode sig. S019:	Start/end signal
226.147: Gr.asg. debounc.S019:	Group 1
226.146: Min. sig. dur. S019:	0 s
226.152: Designat. sig. S020:	S020
226.153: Oper. mode sig. S020:	Start/end signal
226.155: Gr.asg. debounc.S020:	Group 1
226.154: Min. sig. dur. S020:	0 s
226.160: Designat. sig. S021:	S021
226.161: Oper. mode sig. S021:	Start/end signal
226.163: Gr.asg. debounc.S021:	Group 1
226.162: Min. sig. dur. S021:	0 s
226.168: Designat. sig. S022:	S022
226.169: Oper. mode sig. S022:	Start/end signal
226.171: Gr.asg. debounc.S022:	Group 1
226.170: Min. sig. dur. S022:	0 s
226.176: Designat. sig. S023:	S023
226.177: Oper. mode sig. S023:	Start/end signal
226.179: Gr.asg. debounc.S023:	Group 1
226.178: Min. sig. dur. S023:	0 s
226.184: Designat. sig. S024:	S024
226.185: Oper. mode sig. S024:	Start/end signal
226.187: Gr.asg. debounc.S024:	Group 1
226.186: Min. sig. dur. S024:	0 s
226.192: Designat. sig. S025:	S025
226.193: Oper. mode sig. S025:	Start/end signal
226.195: Gr.asg. debounc.S025:	Group 1
226.194: Min. sig. dur. S025:	0 s
226.200: Designat. sig. S026:	S026
226.201: Oper. mode sig. S026:	Start/end signal
226.203: Gr.asg. debounc.S026:	Group 1
226.202: Min. sig. dur. S026:	0 s
226.208: Designat. sig. S027:	S027
226.209: Oper. mode sig. S027:	Start/end signal
226.211: Gr.asg. debounc.S027:	Group 1
226.210: Min. sig. dur. S027:	0 s
226.216: Designat. sig. S028:	S028
226.217: Oper. mode sig. S028:	Start/end signal
226.219: Gr.asg. debounc.S028:	Group 1
226.218: Min. sig. dur. S028:	0 s
226.224: Designat. sig. S029:	S029
226.225: Oper. mode sig. S029:	Start/end signal
226.227: Gr.asg. debounc.S029:	Group 1
226.226: Min. sig. dur. S029:	0 s
226.232: Designat. sig. S030:	S030
226.233: Oper. mode sig. S030:	Start/end signal
226.235: Gr.asg. debounc.S030:	Group 1
226.234: Min. sig. dur. S030:	0 s



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226.240: Designat. sig. S031: S031
226.241: Oper. mode sig. S031: Start/end signal
226.243: Gr.asg. debounc.S031: Group 1
226.242: Min. sig. dur. S031: 0 s
226.248: Designat. sig. S032: S032
226.249: Oper. mode sig. S032: Start/end signal
226.251: Gr.asg. debounc.S032: Group 1
226.250: Min. sig. dur. S032: 0 s
227.000: Designat. sig. S033: S033
227.001: Oper. mode sig. S033: Start/end signal
227.003: Gr.asg. debounc.S033: Group 1
227.002: Min. sig. dur. S033: 0 s
227.008: Designat. sig. S034: S034
227.009: Oper. mode sig. S034: Start/end signal
227.011: Gr.asg. debounc.S034: Group 1
227.010: Min. sig. dur. S034: 0 s
227.016: Designat. sig. S035: S035
227.017: Oper. mode sig. S035: Start/end signal
227.019: Gr.asg. debounc.S035: Group 1
227.018: Min. sig. dur. S035: 0 s
227.024: Designat. sig. S036: S036
227.025: Oper. mode sig. S036: Start/end signal
227.027: Gr.asg. debounc.S036: Group 1
227.026: Min. sig. dur. S036: 0 s
227.032: Designat. sig. S037: S037
227.033: Oper. mode sig. S037: Start/end signal
227.035: Gr.asg. debounc.S037: Group 1
227.034: Min. sig. dur. S037: 0 s
227.040: Designat. sig. S038: S038
227.041: Oper. mode sig. S038: Start/end signal
227.043: Gr.asg. debounc.S038: Group 1
227.042: Min. sig. dur. S038: 0 s

Parameter subset 1

MAIN

010.048: Neutr.pt. treat. PS1: Low-imped. grounding
018.009: Hld time dyn.par.PS1: Blocked
017.015: Bl.tim.st.IN,neg PS1: Without
017.027: Gen. start. mode PS1: With start. IN, Ineg
017.097: Op. rush restr. PS1: Without
017.098: Rush I(2fn)/I(fn)PS1: 20 %
017.095: I>lift rush restrPS1: 10.0 Inom
017.054: Suppr.start.sig. PS1: 0.00 s
017.005: tGS PS1: 0.00 s

DTC

072.098: Enable PS1: Yes
017.000: I> PS1: 1.25 Inom
017.080: I> dynamic PS1: Blocked
017.001: I>> PS1: 2.50 Inom
017.084: I>> dynamic PS1: Blocked
017.002: I>>> PS1: Blocked
017.085: I>>> dynamic PS1: Blocked
017.004: tI> PS1: 1.00 s
017.006: tI>> PS1: 0.60 s
017.007: tI>>> PS1: Blocked
072.011: Ineg> PS1: Blocked
076.200: Ineg> dynamic PS1: Blocked
072.012: Ineg>> PS1: Blocked
076.201: Ineg>> dynamic PS1: Blocked
072.013: Ineg>>> PS1: Blocked
076.202: Ineg>>> dynamic PS1: Blocked
072.023: tIneg> PS1: Blocked
072.024: tIneg>> PS1: Blocked
072.025: tIneg>>> PS1: Blocked
072.128: Eval. IN>, >>, >>> PS1: Measured
017.003: IN> PS1: 0.100 Inom
017.081: IN> dynamic PS1: Blocked



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017.009: IN>>	PS1:	1.000 Inom
017.086: IN>> dynamic	PS1:	Blocked
017.018: IN>>>	PS1:	Blocked
017.087: IN>>> dynamic	PS1:	Blocked
017.008: tIN>	PS1:	0.70 s
072.018: IN>>>>	PS1:	Blocked
017.010: tIN>>	PS1:	0.50 s
072.036: IN>>>> dyn.	PS1:	Blocked
017.019: tIN>>>	PS1:	Blocked
017.055: Puls.prol.IN>,int	PS1:	0.08 s
017.056: tIN,interm.	PS1:	Blocked
017.057: Hold-t. tIN>,intm	PS1:	0.0 s
072.030: tIN>>>>	PS1:	0.50 s
SCDD		
076.235: Enable	PS1:	No
017.074: Trip bias	PS1:	Yes
017.071: Direction tI>	PS1:	Forward directional
017.072: Direction tI>>	PS1:	Forward directional
017.066: Direct. tIref,P>	PS1:	Forward directional
017.073: Direction tIN>	PS1:	Forward directional
017.075: Direction tIN>>	PS1:	Forward directional
017.067: Direct. tIref,N>	PS1:	Forward directional
017.076: Charact. angle G	PS1:	-45 °
017.077: VNG>	PS1:	0.100 Vnom(/©3)
071.056: Evaluation VNG	PS1:	Calculated
017.078: Block. bias G	PS1:	No
010.109: Oper.val.Vmemory	PS1:	0.15 Vnom
V<>		
076.246: Enable	PS1:	Yes
076.001: Operating mode	PS1:	Star
001.155: I enable V<	PS1:	0.10 Inom
001.162: Op. mode V< mon.	PS1:	With
076.002: Evaluation VNG	PS1:	Calculated
076.003: V>	PS1:	1.10 Vnom(/©3)
076.004: V>>	PS1:	1.20 Vnom(/©3)
076.005: tV>	PS1:	60.00 s
076.027: tV> 3-pole	PS1:	60.00 s
076.006: tV>>	PS1:	0.10 s
076.007: V<	PS1:	0.76 Vnom(/©3)
076.008: V<<	PS1:	Blocked
076.009: tV<	PS1:	1.50 s
076.028: tV< 3-pole	PS1:	1.50 s
076.010: tV<<	PS1:	Blocked
076.015: Vpos>	PS1:	Blocked
076.016: Vpos>>	PS1:	Blocked
076.017: tVpos>	PS1:	Blocked
076.018: tVpos>>	PS1:	Blocked
076.019: Vpos<	PS1:	Blocked
076.020: Vpos<<	PS1:	Blocked
076.021: tVpos<	PS1:	Blocked
076.022: tVpos<<	PS1:	Blocked
076.023: Vneg>	PS1:	Blocked
076.024: Vneg>>	PS1:	Blocked
076.025: tVneg>	PS1:	Blocked
076.026: tVneg>>	PS1:	Blocked
076.011: VNG>	PS1:	Blocked
076.012: VNG>>	PS1:	Blocked
076.013: tVNG>	PS1:	Blocked
076.014: tVNG>>	PS1:	Blocked
076.029: tTransient	PS1:	1.00 s
076.048: Hyst. V<> meas.	PS1:	3 %
076.049: Hyst. V<> deduc.	PS1:	3 %
Parameter subset 2		
MAIN		
001.076: Neutr.pt. treat.	PS2:	Low-imped. grounding
001.211: Hld time dyn.par.	PS2:	Blocked



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001.214: Bl.tim.st.IN,neg PS2: Without
001.219: Gen. start. mode PS2: With start. IN, Ineg
001.088: Op. rush restr. PS2: Without
001.091: Rush I(2fn)/I(fn)PS2: 20 %
001.085: I>lift rush restrPS2: 10.0 Inom
001.222: Suppr.start.sig. PS2: 0.00 s
001.225: tGS PS2: 0.00 s

DTOC

073.098: Enable PS2: No
073.007: I> PS2: 1.00 Inom
073.032: I> dynamic PS2: 1.00 Inom
073.008: I>> PS2: 4.00 Inom
073.033: I>> dynamic PS2: 4.00 Inom
073.009: I>>> PS2: Blocked
073.034: I>>> dynamic PS2: Blocked
073.019: tI> PS2: 1.00 s
073.020: tI>> PS2: 0.50 s
073.021: tI>>> PS2: 0.50 s
073.011: Ineg> PS2: 1.00 Inom
077.200: Ineg> dynamic PS2: 1.00 Inom
073.012: Ineg>> PS2: 4.00 Inom
077.201: Ineg>> dynamic PS2: 4.00 Inom
073.013: Ineg>>> PS2: Blocked
077.202: Ineg>>> dynamic PS2: Blocked
073.023: tIneg> PS2: 1.00 s
073.024: tIneg>> PS2: 0.50 s
073.025: tIneg>>> PS2: Blocked
073.128: Eval. IN>,>>,>>> PS2: Measured
073.015: IN> PS2: 0.250 Inom
073.035: IN> dynamic PS2: 0.250 Inom
073.016: IN>> PS2: Blocked
073.036: IN>> dynamic PS2: Blocked
073.017: IN>>> PS2: Blocked
073.037: IN>>> dynamic PS2: Blocked
073.018: IN>>>> PS2: Blocked
073.027: tIN> PS2: 1.00 s
072.105: IN>>>> dyn. PS2: Blocked
073.028: tIN>> PS2: 0.50 s
073.029: tIN>>> PS2: 0.50 s
073.042: Puls.prol.IN>,intPS2: 0.08 s
073.038: tIN,interm. PS2: Blocked
073.030: tIN>>>> PS2: 0.50 s
073.039: Hold-t. tIN>,intmPS2: 0.0 s

SCDD

077.235: Enable PS2: No
077.236: Trip bias PS2: Yes
077.237: Direction tI> PS2: Forward directional
077.238: Direction tI>> PS2: Forward directional
077.239: Direct. tIref,P> PS2: Forward directional
077.240: Direction tIN> PS2: Forward directional
077.241: Direction tIN>> PS2: Forward directional
077.242: Direct. tIref,N> PS2: Forward directional
077.243: Charact. angle G PS2: -45 °
071.057: Evaluation VNG PS2: Calculated
077.244: VNG> PS2: 0.100 Vnom(/©3)
077.245: Block. bias G PS2: No
010.116: Oper.val.Vmemory PS2: 0.15 Vnom

V<>

077.246: Enable PS2: No
077.001: Operating mode PS2: Delta
001.159: I enable V< PS2: 0.10 Inom
001.163: Op. mode V< mon. PS2: Without
077.002: Evaluation VNG PS2: Calculated
077.003: V> PS2: 1.10 Vnom(/©3)
077.004: V>> PS2: 1.10 Vnom(/©3)
077.005: tV> PS2: 1.00 s



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077.027: tV> 3-pole PS2: 1.00 s
077.006: tV>> PS2: 1.00 s
077.007: V< PS2: 0.80 Vnom(/©3)
077.008: V<< PS2: 0.80 Vnom(/©3)
077.009: tV< PS2: 1.00 s
077.028: tV< 3-pole PS2: 1.00 s
077.010: tV<< PS2: 1.00 s
077.015: Vpos> PS2: 1.10 Vnom/©3
077.016: Vpos>> PS2: 1.10 Vnom/©3
077.017: tVpos> PS2: 1.00 s
077.018: tVpos>> PS2: 1.00 s
077.019: Vpos< PS2: 0.80 Vnom/©3
077.020: Vpos<< PS2: 0.80 Vnom/©3
077.021: tVpos< PS2: 1.00 s
077.022: tVpos<< PS2: 1.00 s
077.023: Vneg> PS2: Blocked
077.024: Vneg>> PS2: Blocked
077.025: tVneg> PS2: 1.00 s
077.026: tVneg>> PS2: 1.00 s
077.011: VNG> PS2: Blocked
077.012: VNG>> PS2: Blocked
077.013: tVNG> PS2: 1.00 s
077.014: tVNG>> PS2: 1.00 s
077.029: tTransient PS2: 1.00 s
077.048: Hyst. V<> meas. PS2: 3 %
077.049: Hyst. V<> deduc. PS2: 3 %

Parameter subset 3

MAIN

001.077: Neutr.pt. treat. PS3: Low-imped. grounding
001.212: Hld time dyn.par.PS3: Blocked
001.215: Bl.tim.st.IN,neg PS3: Without
001.220: Gen. start. mode PS3: With start. IN, Ineg
001.089: Op. rush restr. PS3: Without
001.092: Rush I(2fn)/I(fn)PS3: 20 %
001.086: I>lift rush restrPS3: 10.0 Inom
001.223: Suppr.start.sig. PS3: 0.00 s
001.226: tGS PS3: 0.00 s

DTC

074.098: Enable PS3: No
074.007: I> PS3: 1.00 Inom
074.032: I> dynamic PS3: 1.00 Inom
074.008: I>> PS3: 4.00 Inom
074.033: I>> dynamic PS3: 4.00 Inom
074.009: I>>> PS3: Blocked
074.034: I>>> dynamic PS3: Blocked
074.019: tI> PS3: 1.00 s
074.020: tI>> PS3: 0.50 s
074.021: tI>>> PS3: 0.50 s
074.011: Ineg> PS3: 1.00 Inom
078.200: Ineg> dynamic PS3: 1.00 Inom
074.012: Ineg>> PS3: 4.00 Inom
078.201: Ineg>> dynamic PS3: 4.00 Inom
074.013: Ineg>>> PS3: Blocked
078.202: Ineg>>> dynamic PS3: Blocked
074.023: tIneg> PS3: 1.00 s
074.024: tIneg>> PS3: 0.50 s
074.025: tIneg>>> PS3: Blocked
074.128: Eval. IN>,>>,>>> PS3: Measured
074.015: IN> PS3: 0.250 Inom
074.035: IN> dynamic PS3: 0.250 Inom
074.016: IN>> PS3: Blocked
074.036: IN>> dynamic PS3: Blocked
074.017: IN>>> PS3: Blocked
074.037: IN>>> dynamic PS3: Blocked
074.018: IN>>>> PS3: Blocked
074.027: tIN> PS3: 1.00 s



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072.202: IN>>>> dyn.	PS3:	Blocked
074.028: tIN>>	PS3:	0.50 s
074.029: tIN>>>	PS3:	0.50 s
074.042: Puls.prol.IN>,int	PS3:	0.08 s
074.038: tIN,interm.	PS3:	Blocked
074.030: tIN>>>>	PS3:	0.50 s
074.039: Hold-t. tIN>,intm	PS3:	0.0 s
SCDD		
078.235: Enable	PS3:	No
078.236: Trip bias	PS3:	Yes
078.237: Direction tI>	PS3:	Forward directional
078.238: Direction tI>>	PS3:	Forward directional
078.239: Direct. tIref,P>	PS3:	Forward directional
078.240: Direction tIN>	PS3:	Forward directional
078.241: Direction tIN>>	PS3:	Forward directional
078.242: Direct. tIref,N>	PS3:	Forward directional
078.243: Charact. angle G	PS3:	-45 °
071.058: Evaluation VNG	PS3:	Calculated
078.244: VNG>	PS3:	0.100 Vnom(/©3)
078.245: Block. bias G	PS3:	No
010.117: Oper.val.Vmemory	PS3:	0.15 Vnom
V<>		
078.246: Enable	PS3:	No
078.001: Operating mode	PS3:	Delta
001.160: I enable V<	PS3:	0.10 Inom
001.164: Op. mode V< mon.	PS3:	Without
078.002: Evaluation VNG	PS3:	Calculated
078.003: V>	PS3:	1.10 Vnom(/©3)
078.004: V>>	PS3:	1.10 Vnom(/©3)
078.005: tV>	PS3:	1.00 s
078.027: tV> 3-pole	PS3:	1.00 s
078.006: tV>>	PS3:	1.00 s
078.007: V<	PS3:	0.80 Vnom(/©3)
078.008: V<<	PS3:	0.80 Vnom(/©3)
078.009: tV<	PS3:	1.00 s
078.028: tV< 3-pole	PS3:	1.00 s
078.010: tV<<	PS3:	1.00 s
078.015: Vpos>	PS3:	1.10 Vnom/©3
078.016: Vpos>>	PS3:	1.10 Vnom/©3
078.017: tVpos>	PS3:	1.00 s
078.018: tVpos>>	PS3:	1.00 s
078.019: Vpos<	PS3:	0.80 Vnom/©3
078.020: Vpos<<	PS3:	0.80 Vnom/©3
078.021: tVpos<	PS3:	1.00 s
078.022: tVpos<<	PS3:	1.00 s
078.023: Vneg>	PS3:	Blocked
078.024: Vneg>>	PS3:	Blocked
078.025: tVneg>	PS3:	1.00 s
078.026: tVneg>>	PS3:	1.00 s
078.011: VNG>	PS3:	Blocked
078.012: VNG>>	PS3:	Blocked
078.013: tVNG>	PS3:	1.00 s
078.014: tVNG>>	PS3:	1.00 s
078.029: tTransient	PS3:	1.00 s
078.048: Hyst. V<> meas.	PS3:	3 %
078.049: Hyst. V<> deduc.	PS3:	3 %
Parameter subset 4		
MAIN		
001.078: Neutr.pt. treat.	PS4:	Low-imped. grounding
001.213: Hld time dyn.par.	PS4:	Blocked
001.216: Bl.tim.st.IN,neg	PS4:	Without
001.221: Gen. start. mode	PS4:	With start. IN, Ineg
001.090: Op. rush restr.	PS4:	Without
001.093: Rush I(2fn)/I(fn)	PS4:	20 %
001.087: I>lift rush restr	PS4:	10.0 Inom
001.224: Suppr.start.sig.	PS4:	0.00 s



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001.227: tGS	PS4:	0.00 s
DTOC		
075.098: Enable	PS4:	No
075.007: I>	PS4:	1.00 Inom
075.032: I> dynamic	PS4:	1.00 Inom
075.008: I>>	PS4:	4.00 Inom
075.033: I>> dynamic	PS4:	4.00 Inom
075.009: I>>>	PS4:	Blocked
075.034: I>>> dynamic	PS4:	Blocked
075.019: tI>	PS4:	1.00 s
075.020: tI>>	PS4:	0.50 s
075.021: tI>>>	PS4:	0.50 s
075.011: Ineg>	PS4:	1.00 Inom
079.200: Ineg> dynamic	PS4:	1.00 Inom
075.012: Ineg>>	PS4:	4.00 Inom
079.201: Ineg>> dynamic	PS4:	4.00 Inom
075.013: Ineg>>>	PS4:	Blocked
079.202: Ineg>>> dynamic	PS4:	Blocked
075.023: tIneg>	PS4:	1.00 s
075.024: tIneg>>	PS4:	0.50 s
075.025: tIneg>>>	PS4:	Blocked
075.128: Eval. IN>,>>,>>>	PS4:	Measured
075.015: IN>	PS4:	0.250 Inom
075.035: IN> dynamic	PS4:	0.250 Inom
075.016: IN>>	PS4:	Blocked
075.036: IN>> dynamic	PS4:	Blocked
075.017: IN>>>	PS4:	Blocked
075.037: IN>>> dynamic	PS4:	Blocked
075.018: IN>>>>	PS4:	Blocked
075.027: tIN>	PS4:	1.00 s
072.219: IN>>>> dyn.	PS4:	Blocked
075.028: tIN>>	PS4:	0.50 s
075.029: tIN>>>	PS4:	0.50 s
075.042: Puls.prol.IN>,int	PS4:	0.08 s
075.038: tIN,interm.	PS4:	Blocked
075.030: tIN>>>>	PS4:	0.50 s
075.039: Hold-t. tIN>,intm	PS4:	0.0 s
SCDD		
079.235: Enable	PS4:	No
079.236: Trip bias	PS4:	Yes
079.237: Direction tI>	PS4:	Forward directional
079.238: Direction tI>>	PS4:	Forward directional
079.239: Direct. tIref,P>	PS4:	Forward directional
079.240: Direction tIN>	PS4:	Forward directional
079.241: Direction tIN>>	PS4:	Forward directional
079.242: Direct. tIref,N>	PS4:	Forward directional
079.243: Charact. angle G	PS4:	-45 °
071.059: Evaluation VNG	PS4:	Calculated
079.244: VNG>	PS4:	0.100 Vnom(/©3)
079.245: Block. bias G	PS4:	No
010.118: Oper.val.Vmemory	PS4:	0.15 Vnom
V<>		
079.246: Enable	PS4:	No
079.001: Operating mode	PS4:	Delta
001.161: I enable V<	PS4:	0.10 Inom
001.165: Op. mode V< mon.	PS4:	Without
079.002: Evaluation VNG	PS4:	Calculated
079.003: V>	PS4:	1.10 Vnom(/©3)
079.004: V>>	PS4:	1.10 Vnom(/©3)
079.005: tV>	PS4:	1.00 s
079.027: tV> 3-pole	PS4:	1.00 s
079.006: tV>>	PS4:	1.00 s
079.007: V<	PS4:	0.80 Vnom(/©3)
079.008: V<<	PS4:	0.80 Vnom(/©3)
079.009: tV<	PS4:	1.00 s
079.028: tV< 3-pole	PS4:	1.00 s



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079.010: tV<<	PS4:	1.00 s
079.015: Vpos>	PS4:	1.10 Vnom/©3
079.016: Vpos>>	PS4:	1.10 Vnom/©3
079.017: tVpos>	PS4:	1.00 s
079.018: tVpos>>	PS4:	1.00 s
079.019: Vpos<	PS4:	0.80 Vnom/©3
079.020: Vpos<<	PS4:	0.80 Vnom/©3
079.021: tVpos<	PS4:	1.00 s
079.022: tVpos<<	PS4:	1.00 s
079.023: Vneg>	PS4:	Blocked
079.024: Vneg>>	PS4:	Blocked
079.025: tVneg>	PS4:	1.00 s
079.026: tVneg>>	PS4:	1.00 s
079.011: VNG>	PS4:	Blocked
079.012: VNG>>	PS4:	Blocked
079.013: tVNG>	PS4:	1.00 s
079.014: tVNG>>	PS4:	1.00 s
079.029: tTransient	PS4:	1.00 s
079.048: Hyst. V<> meas.	PS4:	3 %
079.049: Hyst. V<> deduc.	PS4:	3 %

Control

MAIN

221.003: BI active USER:	Yes
221.014: Inp.asg. fct.block.1:	Without function
221.022: Inp.asg. fct.block.2:	Without function
221.029: Op. delay fct. block:	0 s
221.027: Perm.No.mot.drive op:	15
221.084: CB1 max. oper. cap.:	1
221.026: Mon.time mot.drives:	15 min
221.028: Cool.time mot.drives:	3 min
221.060: Mon.time motor relay:	0.10 s
221.085: CB1 ready fct.assign:	Without function
221.111: Cmd.end f.K200 fail.:	Yes

DEV01

210.000: Designat. ext. dev.:	Q0
218.101: DEV-Name User:	
210.004: Op.time switch. dev.:	1 s
210.005: Latching time:	0.00 s
210.011: Gr. assign. debounc.:	Group 1
210.012: Interm. pos. suppr.:	No
210.027: Stat.ind.interm.pos.:	No
210.024: Oper. mode cmd.:	Time control
210.014: Inp.asg. sw.tr. plug:	Without function
210.021: With gen. trip cmd.1:	No
210.022: With gen. trip cmd.2:	No
210.023: With close cmd./prot:	No
210.019: Inp.asg.el.ctrl.open:	Without function
210.020: Inp.asg.el.ctr.close:	Without function
210.015: Inp. asg. end Open:	Without function
210.016: Inp. asg. end Close:	Without function
210.041: Fct.asg.BI w/o SI op:	Without function
210.042: Fct.asg.BI w/o SI cl:	ILOCK Output 10

DEV02

210.050: Designat. ext. dev.:	Q91
218.102: DEV-Name User:	
210.054: Op.time switch. dev.:	20 s
210.055: Latching time:	0.00 s
210.061: Gr. assign. debounc.:	Group 1
210.062: Interm. pos. suppr.:	No
210.077: Stat.ind.interm.pos.:	No
210.074: Oper. mode cmd.:	Time control
210.064: Inp.asg. sw.tr. plug:	Without function
210.069: Inp.asg.el.ctrl.open:	Without function
210.070: Inp.asg.el.ctr.close:	Without function
210.065: Inp. asg. end Open:	Without function
210.066: Inp. asg. end Close:	Without function



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210.091: Fct.asg.BI w/o SI op:	ILOCK Output 14
210.092: Fct.asg.BI w/o SI cl:	ILOCK Output 13
DEV03	
210.100: Designat. ext. dev.:	Q81
218.103: DEV-Name User:	
210.104: Op.time switch. dev.:	20 s
210.105: Latching time: 0.00 s	
210.111: Gr. assign. debounc.:	Group 1
210.112: Interm. pos. suppr.:	No
210.127: Stat.ind.interm.pos.:	No
210.124: Oper. mode cmd.:	Time control
210.114: Inp.asg. sw.tr. plug:	Without function
210.119: Inp.asg.el.ctrl.open:	Without function
210.120: Inp.asg.el.ctr.close:	Without function
210.115: Inp. asg. end Open:	Without function
210.116: Inp. asg. end Close:	Without function
210.141: Fct.asg.BI w/o SI op:	ILOCK Output 12
210.142: Fct.asg.BI w/o SI cl:	ILOCK Output 11
DEV05	
210.200: Designat. ext. dev.:	Q92
210.204: Op.time switch. dev.:	20 s
210.205: Latching time: 0.00 s	
210.211: Gr. assign. debounc.:	Group 1
210.212: Interm. pos. suppr.:	No
218.105: DEV-Name User:	
210.227: Stat.ind.interm.pos.:	No
210.224: Oper. mode cmd.:	Time control
210.214: Inp.asg. sw.tr. plug:	Without function
210.219: Inp.asg.el.ctrl.open:	Without function
210.220: Inp.asg.el.ctr.close:	Without function
210.215: Inp. asg. end Open:	Without function
210.216: Inp. asg. end Close:	Without function
210.241: Fct.asg.BI w/o SI op:	ILOCK Output 16
210.242: Fct.asg.BI w/o SI cl:	ILOCK Output 15
DEV06	
211.000: Designat. ext. dev.:	Q82
211.004: Op.time switch. dev.:	20 s
211.005: Latching time: 0.00 s	
211.011: Gr. assign. debounc.:	Group 1
211.012: Interm. pos. suppr.:	No
218.106: DEV-Name User:	
211.027: Stat.ind.interm.pos.:	No
211.024: Oper. mode cmd.:	Time control
211.014: Inp.asg. sw.tr. plug:	Without function
211.019: Inp.asg.el.ctrl.open:	Without function
211.020: Inp.asg.el.ctr.close:	Without function
211.015: Inp. asg. end Open:	Without function
211.016: Inp. asg. end Close:	Without function
211.041: Fct.asg.BI w/o SI op:	ILOCK Output 18
211.042: Fct.asg.BI w/o SI cl:	ILOCK Output 17
ILOCK	
250.000: Fct.assignm. outp. 1:	Without function
250.001: Fct.assignm. outp. 2:	Without function
250.002: Fct.assignm. outp. 3:	Without function
250.003: Fct.assignm. outp. 4:	Without function
250.004: Fct.assignm. outp. 5:	Without function
250.005: Fct.assignm. outp. 6:	Without function
250.006: Fct.assignm. outp. 7:	Without function
250.007: Fct.assignm. outp. 8:	Without function
250.008: Fct.assignm. outp. 9:	Without function
250.009: Fct.assignm. outp.10:	~DEV02 Sw. dev. interm.pos. -->
250.010: Fct.assignm. outp.11:	DEV02 Switch. device open
250.011: Fct.assignm. outp.12:	DEV02 Switch. device open
250.012: Fct.assignm. outp.13:	DEV03 Switch. device open -->
250.013: Fct.assignm. outp.14:	DEV03 Switch. device open -->
250.014: Fct.assignm. outp.15:	DEV06 Switch. device open -->



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..... 250.015: Fct.assignm. outp.16: DEV06 Switch. device open -->
..... 250.016: Fct.assignm. outp.17: DEV05 Switch. device open
..... 250.017: Fct.assignm. outp.18: DEV05 Switch. device open
..... 250.018: Fct.assignm. outp.19: Without function
..... 250.019: Fct.assignm. outp.20: Without function
..... 250.020: Fct.assignm. outp.21: Without function
..... 250.021: Fct.assignm. outp.22: Without function
..... 250.022: Fct.assignm. outp.23: Without function
..... 250.023: Fct.assignm. outp.24: Without function
..... 250.024: Fct.assignm. outp.25: Without function
..... 250.025: Fct.assignm. outp.26: Without function
..... 250.026: Fct.assignm. outp.27: Without function
..... 250.027: Fct.assignm. outp.28: Without function
..... 250.028: Fct.assignm. outp.29: Without function
..... 250.029: Fct.assignm. outp.30: Without function
..... 250.030: Fct.assignm. outp.31: Without function
..... 250.031: Fct.assignm. outp.32: Without function

```

Operation

Cyclic measurements

Meas. operating data

MAIN

003.090:	Date:	12.03.25	dd.mm.yy
003.091:	Time of day:	00:31	hh:mm
003.095:	Time switching:	Standard	time
004.040:	Frequency f:	50.17	Hz
005.050:	Curr. IP,max prim.:	4	A
005.036:	IP,max prim.,demand:	4	A
006.226:	IA prim,demand:	4	A
006.227:	IB prim,demand:	4	A
006.228:	IC prim,demand:	3	A
005.034:	IP,maxprim,demand.st:	120	A
006.223:	IA prim,demand stor.:	120	A
006.224:	IB prim,demand stor.:	120	A
006.225:	IC prim,demand stor.:	120	A
005.055:	Curr. IP,min prim.:	3	A
005.040:	Current A prim.:	4	A
006.040:	Current B prim.:	4	A
007.040:	Current C prim.:	3	A
005.010:	Current –(IP) prim.:	0	A
004.043:	Current IN prim.:	0	A
008.042:	Volt. VPG,max prim.:	38.5	kV
009.042:	Volt. VPG,min prim.:	38.4	kV
005.042:	Voltage A-G prim.:	38.4	kV
006.042:	Voltage B-G prim.:	38.5	kV
007.042:	Voltage C-G prim.:	38.4	kV
005.012:	Volt. –(VPG)/3 prim.:	0.0	kV
004.041:	Voltage VNG prim.:	0.0	kV
008.044:	Volt. VPP,max prim.:	66.7	kV
009.044:	Voltage VPP,min prim:	66.3	kV
005.044:	Voltage A-B prim.:	66.6	kV
006.044:	Voltage B-C prim.:	66.7	kV
007.044:	Voltage C-A prim.:	66.3	kV
005.025:	Appar. power S prim.:	0.4	MVA
004.050:	Active power P prim.:	0.0	MW
004.052:	Reac. power Q prim.:	-0.4	Mvar
005.061:	Act.energy outp.prim:	195.38	MWh
005.062:	Act.energy inp. prim:	467.39	MWh
005.063:	React.en. outp. prim:	464.32	Mvar h
005.064:	React. en. inp. prim:	167.82	Mvar h
008.065:	Act.energy outp.prim:	195.38	MWh
008.066:	Act.energy inp. prim:	462496.19	MWh
008.067:	React.en. outp. prim:	18814.40	Mvarh
008.068:	React. en. inp. prim:	21139.33	Mvarh
004.070:	Frequency f p.u.:	1.003	fnom
005.051:	Current IP,max p.u.:	0.010	Inom
005.037:	IP,max p.u.,demand:	0.011	Inom



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006.235: IA p.u.,demand: 0.009 Inom
006.236: IB p.u.,demand: 0.011 Inom
006.237: IC p.u.,demand: 0.009 Inom
005.035: IP,maxp.u.,demand.st: 0.302 Inom
006.232: IA p.u.,demand stor.: 0.301 Inom
006.233: IB p.u.,demand stor.: 0.301 Inom
006.234: IC p.u.,demand stor.: 0.300 Inom
005.056: Current IP,min p.u.: 0.009 Inom
005.041: Current A p.u.: 0.000 Inom
006.041: Current B p.u.: 0.012 Inom
007.041: Current C p.u.: 0.010 Inom
005.011: Current -(IP) p.u.: 0.000 Inom
004.044: Current IN p.u.: 0.000 IN,nom
009.016: Current Ipos p.u.: 0.012 Inom
009.015: Current Ineg p.u.: 0.000 Inom
008.043: Voltage VPG,max p.u.: 0.584 Vnom
009.043: Voltage VPG,min p.u.: 0.581 Vnom
005.043: Voltage A-G p.u.: 0.581 Vnom
006.043: Voltage B-G p.u.: 0.584 Vnom
007.043: Voltage C-G p.u.: 0.580 Vnom
005.013: Volt. -(VPG)/@3 p.u.: 0.000 Vnom
004.042: Voltage VNG p.u.: 0.000 VNG,nom
008.045: Voltage VPP,max p.u.: 1.011 Vnom
009.045: Voltage VPP,min p.u.: 1.006 Vnom
005.045: Voltage A-B p.u.: 1.010 Vnom
006.045: Voltage B-C p.u.: 1.011 Vnom
007.045: Voltage C-A p.u.: 1.006 Vnom
009.018: Voltage Vpos p.u.: 0.584 Vnom
009.017: Voltage Vneg p.u.: 0.000 Vnom
005.026: Appar. power S p.u.: 0.010 Snom
004.051: Active power P p.u.: 0.000 Snom
004.053: Reac. power Q p.u.: -0.010 Snom
004.054: Active power factor: Not measured
004.055: Load angle phi A: Not measured
004.056: Load angle phi B: Not measured
004.057: Load angle phi C: Not measured
004.072: Angle phi N: Not measured
005.073: Load angle phi A p.u.: Not measured
005.074: Load angle phi B p.u.: Not measured
005.075: Load angle phi C p.u.: Not measured
005.076: Angle phi N p.u.: Not measured
005.009: Angle -VPG vs. IN: Not measured
005.072: Angle -VPG/IN p.u.: Not measured
004.073: Phase rel.,IN vs -IP: Reverse phase
004.074: Current -I unfilt.: 0.009 Inom

Phys. state signals

INP

152.090: State U 601: "Low"
152.093: State U 602: "High"
152.096: State U 603: "Low"
152.099: State U 604: "High"
152.102: State U 605: "High"
152.105: State U 606: "Low"
152.108: State U 701: "Low"
152.111: State U 702: "Low"
152.114: State U 703: "Low"
152.117: State U 704: "High"
152.120: State U 705: "High"
152.123: State U 706: "Low"
184.001: State U 801: "Low"
184.005: State U 802: "Low"
184.009: State U 803: "Low"
184.013: State U 804: "Low"
184.017: State U 805: "Low"
184.021: State U 806: "Low"
184.025: State U 807: "Low"



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184.029: State U 808: "Low"
184.033: State U 809: "Low"
184.037: State U 810: "Low"
184.041: State U 811: "Low"
184.045: State U 812: "Low"
184.049: State U 813: "Low"
184.053: State U 814: "Low"
184.057: State U 815: "Low"
184.061: State U 816: "Low"
184.065: State U 817: "Low"
184.069: State U 818: "Low"
184.073: State U 819: "High"
184.077: State U 820: "Low"
184.081: State U 821: "Low"
184.085: State U 822: "Low"
184.089: State U 823: "Low"
184.093: State U 824: "High"
152.144: State U 901: "High"
152.147: State U 902: "Low"
152.150: State U 903: "Low"
152.153: State U 904: "Low"

OUTP

150.120: State K 601: Inactive
150.123: State K 602: Inactive
150.126: State K 603: Inactive
150.129: State K 604: Inactive
150.132: State K 605: Inactive
150.135: State K 606: Inactive
150.144: State K 701: Inactive
150.147: State K 702: Inactive
150.150: State K 703: Inactive
150.153: State K 704: Inactive
150.156: State K 705: Inactive
150.159: State K 706: Inactive
150.192: State K 901: Inactive
150.195: State K 902: Inactive
150.198: State K 903: Inactive
150.201: State K 904: Inactive
150.204: State K 905: Inactive
150.207: State K 906: Inactive
150.210: State K 907: Inactive
150.213: State K 908: Inactive
150.216: State K 1001: Inactive
150.219: State K 1002: Inactive
150.222: State K 1003: Inactive
150.225: State K 1004: Inactive
150.228: State K 1005: Inactive
150.231: State K 1006: Inactive

LED

085.180: State H 1 green: Active
085.000: State H 2 yell.: Inactive
085.003: State H 3 yell.: Inactive
085.006: State H 4 red: Inactive
085.009: State H 5 red: Inactive
085.012: State H 6 red: Inactive
085.015: State H 7 red: Inactive
085.018: State H 8 red: Inactive
085.021: State H 9 red: Inactive
085.024: State H10 red: Inactive
085.027: State H11 red: Inactive
085.030: State H12 red: Inactive
085.033: State H13 red: Inactive
085.036: State H14 red: Inactive
085.039: State H15 red: Inactive
085.042: State H16 red: Inactive
085.181: State H17 red.: Inactive



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Log. state signals	
LOC	
080.111: Edit mode:	No
030.230: Trig. menu jmp 1 EXT:	No
030.231: Trig. menu jmp 2 EXT:	No
037.101: Illumination on EXT:	No
221.005: Loc.acc.block.active:	Yes
221.004: Rem.acc.block.active:	No
221.076: Chg.Sig.Panel stat.:	No
221.077: Chg.Sig.Panel flash.:	No
IEC	
105.180: Comm. link faulty:	No
221.082: Control reservation:	No
OUTP	
040.014: Block outp.rel. EXT:	No
040.015: Reset latch. EXT:	No
021.015: Outp. relays blocked:	No
040.088: Latching reset:	No
MAIN	
060.001: Healthy:	Yes
037.019: Parallel trip EXT:	No
003.027: Enable protect. EXT:	No
005.209: Group reset 1 EXT:	No
005.210: Reset c. cl/tr.c EXT:	No
005.211: Reset IP,max,st. EXT:	No
005.212: Reset meas.v.en. EXT:	No
005.252: Group reset 2 EXT:	No
005.255: General reset EXT:	No
003.026: Disable protect. EXT:	No
003.096: Time switching EXT:	Standard time
040.130: System IN enable EXT:	No
221.086: CB1 faulty EXT:	No
221.090: CB2 faulty EXT:	No
221.108: K200 fail. cmd. end:	No
221.109: K200 fail. cmd.start:	No
221.110: DEV op.time exceeded:	No
040.131: Syst. IN disable EXT:	No
037.070: Test mode EXT:	No
040.060: Blocking 1 EXT:	No
040.061: Blocking 2 EXT:	No
040.138: Reset latch.trip EXT:	No
036.045: Trip cmd. block. EXT:	No
004.061: M.c.b. trip V EXT:	No
036.033: Switch dyn.param.EXT:	No
036.051: CB closed sig. EXT:	No
036.047: Manual close EXT:	No
037.018: Man. trip cmd. EXT:	No
041.023: Man.cl.cmd.enabl.EXT:	No
041.022: Man. close cmd. EXT:	No
031.028: CB open 3p EXT:	No
060.060: Min-pulse clock EXT:	No
003.028: Prot. ext. enabled:	Yes
038.046: Prot. ext. disabled:	No
040.132: Syst.IN ext/user en.:	Yes
040.133: System IN enabled:	Yes
040.134: System IN disabled:	No
004.060: Device not ready:	No
221.058: Enable control:	Yes
037.071: Test mode:	No
004.065: Blocked/faulty:	No
021.013: Trip cmd. blocked:	No
040.139: Latch. trip c. reset:	No
034.017: Manual trip signal:	No
037.068: Man. close command:	No
036.251: Gen. trip signal:	No
036.005: Gen. trip signal 1:	No



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036.023: Gen. trip signal 2:	No
065.001: Reset indicat. EXT:	No
035.071: Gen. trip command:	No
036.071: Gen. trip command 1:	No
036.022: Gen. trip command 2:	No
037.009: Close command:	No
037.012: Close aft.man.cl.rqu:	No
040.090: Dynam. param. active:	No
031.040: CB open 3p:	No
031.042: CB closed 3p:	No
031.041: CB pos.sig. implaus.:	No
040.000: General starting:	No
040.009: tGS elapsed:	No
040.005: Starting A:	No
040.006: Starting B:	No
040.007: Starting C:	No
040.008: Starting GF:	No
040.105: Starting Ineg:	No
041.027: Rush restr. A trig.:	No
041.028: Rush restr. B trig.:	No
041.029: Rush restr. C trig.:	No
040.031: Timer stage P elaps.:	No
040.050: Timer st. Ineg elaps:	No
040.032: Timer stage N elaps.:	No
040.042: TripSig. tI>/tIrefP>:	No
040.051: TrSg.tIneg>/Iref,neg:	No
040.043: TripSig tIN>/tIrefN>:	No
041.087: Ground fault:	No
041.054: Ground fault A:	No
041.055: Ground fault B:	No
041.056: Ground fault C:	No
041.088: Gnd. fault forw./LS:	No
041.089: Gnd. fault backw./BS:	No
221.001: Bay interlock. act.:	Yes
221.000: Subst. interl. act.:	No
221.015: Fct. block. 1 active:	No
221.023: Fct. block. 2 active:	No
221.056: Mon. mot. drives tr.:	No
221.018: Interlock equ. viol.:	No
221.095: XSWI2 available:	Yes
221.006: CB trip internal:	No
221.016: CB tripped:	No
221.017: Mult. sig. 1 active:	No
221.054: Mult. sig. 1 stored:	No
221.053: Mult. sig. 2 active:	No
221.055: Mult. sig. 2 stored:	No
221.019: Communication error:	No
038.005: Auxiliary address:	No
004.129: Dummy entry:	No
060.000: Without function:	No
061.000: Without function:	No
221.101: Cmd. fr. comm.interf:	No
221.102: Command from HMI:	No
221.103: Cmd. fr. electr.ctrl:	No
PSS	
036.101: Control via user EXT:	No
065.002: Activate PS 1 EXT:	No
065.003: Activate PS 2 EXT:	No
065.004: Activate PS 3 EXT:	No
065.005: Activate PS 4 EXT:	No
036.102: Control via user:	No
003.061: Ext.sel.param.subset:	No param. subset sel
036.094: PS 1 activated ext.:	No
036.095: PS 2 activated ext.:	No
036.096: PS 3 activated ext.:	No
036.097: PS 4 activated ext.:	No



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 003.062: Actual param. subset: Parameter subset 1 036.090: PS 1 active: Yes 036.091: PS 2 active: No 036.092: PS 3 active: No 036.093: PS 4 active: No SFMON 093.127: faulty DSP: No 093.128: Invalid SW vers. DSP: No 098.072: CB faulty EXT: No 036.070: Warning (LED): No 036.100: Warning (relay): No 041.202: Warm restart exec.: Yes 041.201: Cold restart exec.: No 093.024: Cold restart: No 093.025: Cold rest./SW update: No 090.019: Blocking/ HW failure: No 041.200: Relay Kxx faulty: No 093.040: Hardware clock fail.: No 090.010: Battery failure: No 096.121: Invalid SW d.loaded: No 096.122: Invalid type of bay: No 093.081: +15V supply faulty: No 093.082: +24V supply faulty: No 093.080: -15V supply faulty: No 096.100: Wrong module slot 1: No 096.101: Wrong module slot 2: No 096.102: Wrong module slot 3: No 096.103: Wrong module slot 4: No 096.104: Wrong module slot 5: No 096.105: Wrong module slot 6: No 096.106: Wrong module slot 7: No 096.107: Wrong module slot 8: No 096.108: Wrong module slot 9: No 096.109: Wrong module slot 10: No 097.000: Defect.module slot 1: No 097.003: Defect.module slot 4: No 097.005: Defect.module slot 6: No 097.006: Defect.module slot 7: No 097.007: Defect.module slot 8: No 097.008: Defect.module slot 9: No 097.009: Defect.module slot10: No 097.070: Error K 601: No 097.071: Error K 602: No 097.072: Error K 603: No 097.073: Error K 604: No 097.074: Error K 605: No 097.075: Error K 606: No 097.078: Error K 701: No 097.079: Error K 702: No 097.080: Error K 703: No 097.081: Error K 704: No 097.082: Error K 705: No 097.083: Error K 706: No 097.094: Error K 901: No 097.095: Error K 902: No 097.096: Error K 903: No 097.097: Error K 904: No 097.098: Error K 905: No 097.099: Error K 906: No 097.100: Error K 907: No 097.101: Error K 908: No 097.102: Error K 1001: No 097.103: Error K 1002: No 097.104: Error K 1003: No 097.105: Error K 1004: No 097.106: Error K 1005: No



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097.107: Error K 1006:	No
093.010: Undef. operat. code:	No
093.011: Invalid arithm. op.:	No
093.012: Undefined interrupt:	No
093.013: Exception oper.syst.:	No
090.021: Protection failure:	No
090.003: Checksum error param:	No
093.041: Clock sync. error:	No
093.026: Interm.volt.fail.RAM:	No
090.012: Overflow MT_RC:	No
093.015: Semaph. MT_RC block.:	No
098.000: M.c.b. trip V:	No
098.001: Phase sequ. V faulty:	No
098.009: Undervoltage:	No
098.023: M.circ. V,Vref fity.:	No
098.017: Meas. circ. V faulty:	No
098.005: Meas. circ. I faulty:	No
098.016: Meas.circ.V,I faulty:	No
093.140: Communic.fault COMM3:	No
093.143: Hardware error COMM3:	No
093.145: Invalid SW vers DHMI:	No
093.142: Comm.link fail.COMM3:	No
093.141: Lim.exceed.,tel.err.:	No
098.006: Telecom. faulty:	No
098.035: Setting error THERM:	No
098.020: Setting error CBM:	No
098.066: CB No. CB op. >:	No
098.067: CB rem. No. CB op. <:	No
098.068: CB -Itrip >:	No
098.069: CB -Itrip**2 >:	No
093.124: Invalid scaling BCD:	No
098.070: CB tmax> A:	No
098.071: CB tmax> B:	No
098.077: CB tmax> C:	No
098.028: Setting error f<>:	No
093.120: Inv.inp.f.clock sync:	No
098.053: Output 30:	No
098.054: Output 30 (t):	No
098.055: Output 31:	No
098.056: Output 31 (t):	No
098.057: Output 32:	No
098.058: Output 32 (t):	No
098.124: CB pos.sig. implaus.:	No
OP_RC	
005.213: Reset record. EXT:	No
MT_RC	
005.240: Reset record. EXT:	No
OL_RC	
005.241: Reset record. EXT:	No
035.003: Record. in progress:	No
035.007: Overl. mem. overflow:	No
GF_RC	
005.242: Reset record. EXT:	No
035.005: Record. in progress:	No
035.006: GF memory overflow:	No
FT_DA	
036.088: Trigger EXT:	No
FT_RC	
002.002: Record.trig active:	No
005.243: Reset record. EXT:	No
036.089: Trigger EXT:	No
037.076: Trigger:	No
040.063: I> triggered:	No
035.000: Record. in progress:	No
035.001: Fault mem. overflow:	No
035.004: System disturb. runn:	No



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035.002: Faulty time tag:	No
DTOC	
041.060: Blocking tI> EXT:	No
041.061: Blocking tI>> EXT:	No
041.062: Blocking tI>>> EXT:	No
036.141: Block. tIneg> EXT:	No
036.142: Block. tIneg>> EXT:	No
036.143: Block. tIneg>>> EXT:	No
041.063: Blocking tIN> EXT:	No
041.064: Blocking tIN>> EXT:	No
041.065: Blocking tIN>>> EXT:	No
041.101: Blocking tIN>>>> EXT:	No
040.120: Enabled:	Yes
040.036: Starting I>:	No
040.029: Starting I>>:	No
039.075: Starting I>>>:	No
036.145: Starting Ineg>:	No
036.146: Starting Ineg>>:	No
036.147: Starting Ineg>>>:	No
040.077: Starting IN>:	No
040.041: Starting IN>>:	No
039.078: Starting IN>>>:	No
035.031: Starting IN>>>>:	No
040.010: tI> elapsed:	No
040.033: tI>> elapsed:	No
040.012: tI>>> elapsed:	No
041.020: Trip signal tI>:	No
040.011: Trip signal tI>>:	No
040.076: Trip signal tI>>>:	No
036.148: tIneg> elapsed:	No
036.149: tIneg>> elapsed:	No
036.150: tIneg>>> elapsed:	No
036.151: Trip signal tIneg>:	No
036.152: Trip signal tIneg>>:	No
036.153: Trip signal tIneg>>>:	No
040.013: tIN> elapsed:	No
040.121: tIN>> elapsed:	No
039.079: tIN>>> elapsed:	No
035.040: tIN>>>> elapsed:	No
041.021: Trip signal tIN>:	No
040.028: Trip signal tIN>>:	No
040.079: Trip signal tIN>>>:	No
035.046: Trip sign. tIN>>>>:	No
040.086: H.-time tIN>,i. runn:	No
040.099: tIN>,interm. elapsed:	No
039.073: Trip sig. tIN>,intm.:	No
SCDD	
040.098: Enabled:	No
040.062: Blocked:	No
036.018: Fault P forward:	No
036.019: Fault P backward:	No
040.037: Ground fault forward:	No
040.038: Ground fault backw.:	No
040.039: Fault P or G forw.:	No
040.040: Fault P or G backw.:	No
038.044: Forw. w/o measurem.:	No
038.045: Direct. using Vmeas:	No
038.047: Direct. using memory:	No
040.034: tVmemory running:	No
V<>	
041.068: Blocking tV> EXT:	No
041.069: Blocking tV>> EXT:	No
041.070: Blocking tV< EXT:	No
041.071: Blocking tV<< EXT:	No
041.090: Blocking tVpos> EXT:	No
041.091: Blocking tVpos>> EXT:	No



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041.092:	Blocking tVpos< EXT:	No
041.093:	Blocking tVpos<< EXT:	No
041.094:	Blocking tVneg> EXT:	No
041.095:	Blocking tVneg>> EXT:	No
041.072:	Blocking tVNG> EXT:	No
041.073:	Blocking tVNG>> EXT:	No
040.066:	Enabled:	Yes
042.003:	Ready:	Yes
042.004:	Not ready:	No
041.031:	Starting V>/>> A(-B):	No
041.032:	Starting V>/>> B(-C):	No
041.033:	Starting V>/>> C(-A):	No
041.030:	Starting V>:	No
041.097:	Starting V> 3-pole:	No
041.096:	Starting V>>:	No
041.034:	tV> elapsed:	No
041.098:	tV> 3-pole elapsed:	No
041.035:	tV>> elapsed:	No
041.038:	Starting V</<< A(-B):	No
041.039:	Starting V</<< B(-C):	No
041.040:	Starting V</<< C(-A):	No
041.037:	Starting V<:	No
042.005:	Starting V< 3-pole:	No
041.099:	Starting V<<:	No
041.041:	tV< elapsed:	No
042.023:	tV< elaps. transient:	No
041.110:	Fault V<:	No
042.006:	tV< 3-pole elapsed:	No
042.024:	tV< 3p elaps. trans.:	No
041.111:	Fault V< 3-pole:	No
041.042:	tV<< elapsed:	No
042.025:	tV<< elapsed trans.:	No
042.007:	tV</<< elaps. trans.:	No
041.112:	Fault V<<:	No
042.010:	Starting Vpos>:	No
042.011:	Starting Vpos>>:	No
042.012:	tVpos> elapsed:	No
042.013:	tVpos>> elapsed:	No
042.014:	Starting Vpos<:	No
042.015:	Starting Vpos<<:	No
042.016:	tVpos< elapsed:	No
042.026:	tVpos< elaps. trans.:	No
041.113:	Fault Vpos<:	No
042.017:	tVpos<< elapsed:	No
042.027:	tVpos<< elaps.trans.:	No
041.114:	Fault Vpos<<:	No
042.018:	tVpos</<< elap.trans:	No
042.019:	Starting Vneg>:	No
042.020:	Starting Vneg>>:	No
042.021:	tVneg> elapsed:	No
042.022:	tVneg>> elapsed:	No
041.044:	Starting VNG>:	No
042.008:	Starting VNG>>:	No
041.045:	tVNG> elapsed:	No
041.046:	tVNG>> elapsed:	No
CBF		
038.009:	Ready:	Yes
038.211:	Startup 3p:	No
038.016:	Starting trig. EXT:	No
038.058:	Blocking EXT:	No
038.041:	Enable EXT:	No
038.042:	Disable EXT:	No
040.055:	Enabled:	Yes
040.025:	Not ready:	No
040.026:	Trip signal:	No
038.021:	Starting:	No



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038.040: Ext./user enabled:	Yes
036.017: CB failure:	No
038.205: Start 3p EXT:	No
038.209: Start enable EXT:	Yes
038.210: CB pos. implausible:	No
038.215: Trip signal t1:	No
038.219: Trip signal t2:	No
038.220: Trip command t1:	No
038.224: Trip command t2:	No
038.225: Fault behind CB:	No
038.226: TripSig Cbsync.super:	No
038.227: Cbsync.superv A open:	No
038.228: Cbsync.superv B open:	No
038.229: Cbsync.superv C open:	No
038.230: Current flow A:	No
038.231: Current flow B:	No
038.232: Current flow C:	No
038.233: Current flow Phx:	No
038.234: CB faulty EXT:	No
MCMON	
040.094: Enabled:	Yes
040.087: Meas. circ. I faulty:	No
038.038: Undervoltage:	No
038.049: Phase sequ. V faulty:	No
038.023: Meas. circ. V faulty:	No
037.020: Meas.circ.V,I faulty:	No
038.048: Meas. voltage o.k.:	Yes
040.078: M.circ. V,Vref flty.:	No
LOGIC	
034.000: Input 1 EXT:	No
034.001: Input 2 EXT:	No
034.002: Input 3 EXT:	No
034.003: Input 4 EXT:	No
034.004: Input 5 EXT:	No
034.005: Input 6 EXT:	No
034.006: Input 7 EXT:	No
034.007: Input 8 EXT:	No
034.008: Input 9 EXT:	No
034.009: Input 10 EXT:	No
034.010: Input 11 EXT:	No
034.011: Input 12 EXT:	No
034.012: Input 13 EXT:	No
034.013: Input 14 EXT:	No
034.014: Input 15 EXT:	No
034.015: Input 16 EXT:	No
034.051: Set 1 EXT:	No
034.052: Set 2 EXT:	No
034.053: Set 3 EXT:	No
034.054: Set 4 EXT:	No
034.055: Set 5 EXT:	No
034.056: Set 6 EXT:	No
034.057: Set 7 EXT:	No
034.058: Set 8 EXT:	No
034.059: Reset 1 EXT:	No
034.060: Reset 2 EXT:	No
034.061: Reset 3 EXT:	No
034.062: Reset 4 EXT:	No
034.063: Reset 5 EXT:	No
034.064: Reset 6 EXT:	No
034.065: Reset 7 EXT:	No
034.066: Reset 8 EXT:	No
034.067: 1 has been set:	No
034.068: 2 has been set:	No
034.069: 3 has been set:	No
034.070: 4 has been set:	No
034.071: 5 has been set:	No



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034.072: 6 has been set:	No
034.073: 7 has been set:	No
034.074: 8 has been set:	No
034.075: 1 set externally:	Yes
034.076: 2 set externally:	Yes
034.077: 3 set externally:	Yes
034.078: 4 set externally:	Yes
034.079: 5 set externally:	Yes
034.080: 6 set externally:	Yes
034.081: 7 set externally:	Yes
034.082: 8 set externally:	Yes
034.046: Enabled:	Yes
042.032: Output 1:	No
042.033: Output 1 (t):	No
042.034: Output 2:	No
042.035: Output 2 (t):	No
042.036: Output 3:	No
042.037: Output 3 (t):	No
042.038: Output 4:	No
042.039: Output 4 (t):	No
042.040: Output 5:	No
042.041: Output 5 (t):	No
042.042: Output 6:	No
042.043: Output 6 (t):	No
042.044: Output 7:	No
042.045: Output 7 (t):	No
042.046: Output 8:	No
042.047: Output 8 (t):	No
042.048: Output 9:	No
042.049: Output 9 (t):	No
042.050: Output 10:	No
042.051: Output 10 (t):	No
042.052: Output 11:	No
042.053: Output 11 (t):	No
042.054: Output 12:	No
042.055: Output 12 (t):	No
042.056: Output 13:	No
042.057: Output 13 (t):	No
042.058: Output 14:	No
042.059: Output 14 (t):	No
042.060: Output 15:	No
042.061: Output 15 (t):	No
042.062: Output 16:	No
042.063: Output 16 (t):	No
042.064: Output 17:	No
042.065: Output 17 (t):	No
042.066: Output 18:	No
042.067: Output 18 (t):	No
042.068: Output 19:	No
042.069: Output 19 (t):	No
042.070: Output 20:	No
042.071: Output 20 (t):	No
042.072: Output 21:	No
042.073: Output 21 (t):	No
042.074: Output 22:	No
042.075: Output 22 (t):	No
042.076: Output 23:	No
042.077: Output 23 (t):	No
042.078: Output 24:	No
042.079: Output 24 (t):	No
042.080: Output 25:	No
042.081: Output 25 (t):	No
042.082: Output 26:	No
042.083: Output 26 (t):	No
042.084: Output 27:	No
042.085: Output 27 (t):	No



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042.086: Output 28: No
042.087: Output 28 (t): No
042.088: Output 29: No
042.089: Output 29 (t): No
042.090: Output 30: No
042.091: Output 30 (t): No
042.092: Output 31: No
042.093: Output 31 (t): No
042.094: Output 32: No
042.095: Output 32 (t): No

DEV01

210.030: Open signal EXT: No
210.031: Closed signal EXT: Yes
210.018: Control state: Closed
210.036: Switch. device open: No
210.037: Switch.device closed: Yes
210.038: Sw. dev. interm.pos.: No
210.028: Open command:No
210.029: Close command:No
218.000: Open cmd. received: No
218.001: Close cmd. received: No

DEV02

210.080: Open signal EXT: No
210.081: Closed signal EXT: Yes
210.068: Control state: Closed
210.086: Switch. device open: No
210.087: Switch.device closed: Yes
210.088: Sw. dev. interm.pos.: No
210.078: Open command:No
210.079: Close command:No
218.002: Open cmd. received: No
218.003: Close cmd. received: No

DEV03

210.130: Open signal EXT: Yes
210.131: Closed signal EXT: No
210.118: Control state: Open
210.136: Switch. device open: Yes
210.137: Switch.device closed: No
210.138: Sw. dev. interm.pos.: No
210.128: Open command:No
210.129: Close command:No
218.004: Open cmd. received: No
218.005: Close cmd. received: No

DEV05

210.230: Open signal EXT: No
210.231: Closed signal EXT: Yes
210.218: Control state: Closed
210.236: Switch. device open: No
210.237: Switch.device closed: Yes
210.238: Sw. dev. interm.pos.: No
210.228: Open command:No
210.229: Close command:No
218.008: Open cmd. received: No
218.009: Close cmd. received: No

DEV06

211.030: Open signal EXT: Yes
211.031: Closed signal EXT: No
211.018: Control state: Open
211.036: Switch. device open: Yes
211.037: Switch.device closed: No
211.038: Sw. dev. interm.pos.: No
211.028: Open command:No
211.029: Close command:No
218.010: Open cmd. received: No
218.011: Close cmd. received: No

ILOCK



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250.032: Output 1:	No
250.033: Output 2:	No
250.034: Output 3:	No
250.035: Output 4:	No
250.036: Output 5:	No
250.037: Output 6:	No
250.038: Output 7:	No
250.039: Output 8:	No
250.040: Output 9:	No
250.041: Output 10:	No
250.042: Output 11:	No
250.043: Output 12:	No
250.044: Output 13:	No
250.045: Output 14:	No
250.046: Output 15:	No
250.047: Output 16:	No
250.048: Output 17:	No
250.049: Output 18:	No
250.050: Output 19:	No
250.051: Output 20:	No
250.052: Output 21:	No
250.053: Output 22:	No
250.054: Output 23:	No
250.055: Output 24:	No
250.056: Output 25:	No
250.057: Output 26:	No
250.058: Output 27:	No
250.059: Output 28:	No
250.060: Output 29:	No
250.061: Output 30:	No
250.062: Output 31:	No
250.063: Output 32:	No
SIG_1	
226.004: Signal S001 EXT:	No
226.005: Logic signal S001:	No
226.100: Signal S013 EXT:	No
226.101: Logic signal S013:	No
226.108: Signal S014 EXT:	No
226.109: Logic signal S014:	No
226.116: Signal S015 EXT:	No
226.117: Logic signal S015:	No
226.124: Signal S016 EXT:	No
226.125: Logic signal S016:	No
226.132: Signal S017 EXT:	No
226.133: Logic signal S017:	No
226.140: Signal S018 EXT:	No
226.141: Logic signal S018:	No
226.148: Signal S019 EXT:	Yes
226.149: Logic signal S019:	Yes
226.156: Signal S020 EXT:	No
226.157: Logic signal S020:	No
226.164: Signal S021 EXT:	No
226.165: Logic signal S021:	No
226.172: Signal S022 EXT:	No
226.173: Logic signal S022:	No
226.180: Signal S023 EXT:	No
226.181: Logic signal S023:	No
226.188: Signal S024 EXT:	No
226.189: Logic signal S024:	No
226.196: Signal S025 EXT:	No
226.197: Logic signal S025:	No
226.204: Signal S026 EXT:	No
226.205: Logic signal S026:	No
226.212: Signal S027 EXT:	No
226.213: Logic signal S027:	No
226.220: Signal S028 EXT:	No



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226.221:	Logic signal S028:	No
226.228:	Signal S029 EXT:	No
226.229:	Logic signal S029:	No
226.236:	Signal S030 EXT:	No
226.237:	Logic signal S030:	No
226.244:	Signal S031 EXT:	Yes
226.245:	Logic signal S031:	Yes
226.252:	Signal S032 EXT:	No
226.253:	Logic signal S032:	No
227.004:	Signal S033 EXT:	No
227.005:	Logic signal S033:	No
227.012:	Signal S034 EXT:	No
227.013:	Logic signal S034:	No
227.020:	Signal S035 EXT:	No
227.021:	Logic signal S035:	No
227.028:	Signal S036 EXT:	No
227.029:	Logic signal S036:	No
227.036:	Signal S037 EXT:	No
227.037:	Logic signal S037:	No
227.044:	Signal S038 EXT:	No
227.045:	Logic signal S038:	No
Control and testing		
DVICE		
031.080:	Service info 031 080:	No
LOC		
003.010:	Param. change enabl.:	No
OUTP		
021.009:	Reset latch. USER:	don't execute
003.042:	Relay assign. f.test:	OUTP Fct. assignm. K 1004
003.043:	Relay test:	don't execute
003.044:	Hold-time for test:	1 s
MAIN		
003.002:	General reset USER:	don't execute
003.142:	Enable syst. IN USER:	don't execute
003.141:	Disable syst.IN USER:	don't execute
021.010:	Reset indicat. USER:	don't execute
021.005:	Rset.latch.trip USER:	don't execute
003.007:	Reset c. cl/tr.cUSER:	don't execute
003.033:	Reset IP,max,st.USER:	don't execute
003.032:	Reset meas.v.en.USER:	don't execute
005.253:	Group reset 1 USER:	don't execute
005.254:	Group reset 2 USER:	don't execute
003.040:	Man. trip cmd. USER:	don't execute
018.033:	Man. close cmd. USER:	don't execute
003.039:	Warm restart:	don't execute
000.085:	Cold restart:	don't execute
OP_RC		
100.001:	Reset record. USER:	don't execute
MT_RC		
003.008:	Reset record. USER:	don't execute
OL_RC		
100.003:	Reset record. USER:	don't execute
GF_RC		
100.000:	Reset record. USER:	don't execute
FT_RC		
003.041:	Trigger USER:	don't execute
003.006:	Reset record. USER:	don't execute
CBF		
003.016:	Enable USER:	don't execute
003.015:	Disable USER:	don't execute
LOGIC		
034.038:	Trigger 1:	don't execute
034.039:	Trigger 2:	don't execute
034.040:	Trigger 3:	don't execute
034.041:	Trigger 4:	don't execute
034.042:	Trigger 5:	don't execute



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034.043: Trigger 6:	don't execute
034.044: Trigger 7:	don't execute
034.045: Trigger 8:	don't execute
Operating data rec.	
OP_RC	
003.024: Operat. data record.:	0
MT_RC	
003.001: Mon. signal record.:	0
Events	
Event counters	
MAIN	
004.000: No. general start.:	0
221.087: CB1 act. oper. cap.:	1
004.006: No. gen.trip cmds. 1:	0
009.050: No. gen.trip cmds. 2:	0
009.055: No. close commands:	0
221.025: No. motor drive op.:	0
009.090: No.overfl.act.en.out:	0
009.091: No.overfl.act.en.inp:	705
009.092: No.ov/fl.reac.en.out:	28
009.093: No.ov/fl.reac.en.inp:	32
OP_RC	
100.002: No. oper. data sig.:	100
MT_RC	
004.019: No. monit. signals:	0
OL_RC	
004.101: No. overload:	0
GF_RC	
004.100: No. ground faults:	0
FT_RC	
004.020: No. of faults:	1
004.010: No. system disturb.:	1
DEV01	
210.043: Operation counter:	166
DEV02	
210.093: Operation counter:	84
210.053: Dev. op. capability:	1
DEV03	
210.143: Operation counter:	9
210.103: Dev. op. capability:	1
DEV05	
210.243: Operation counter:	57
210.203: Dev. op. capability:	1
DEV06	
211.043: Operation counter:	4
211.003: Dev. op. capability:	1
Measured fault data	
OL_DA	
004.102: Overload duration:	Not measured
005.096: T.taken f.startup,MP:	Not measured
005.098: Start-up current, MP:	Not measured
005.097: Heat.dur.start-up,MP:	Not measured
004.147: Status THERM replica:	Not measured
004.058: Load current THERM:	Not measured
004.035: Object temp. THERM:	Not measured
004.036: Coolant temp. THERM:	Not measured
004.148: Pre-trip t.leftTHERM:	Not measured
004.154: Offset THERM replica:	Not measured
GF_DA	
009.100: Ground flt. duration:	Not measured
009.024: GF duration pow.meas:	Not measured
009.020: Voltage VNG p.u.:	Not measured
009.021: Current IN p.u.:	Not measured
009.022: Curr. IN,act p.u.:	Not measured
009.023: Curr. IN, reac p.u.:	Not measured
009.026: GF durat. curr.meas.:	Not measured



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009.025: Curr. IN filt. p.u.:	Not measured
009.068: GF duration admitt.:	Not measured
009.065: Admittance Y(N) p.u.:	Not measured
009.066: Conduct. G(N) p.u.:	Not measured
009.067: Suscept. B(N) p.u.:	Not measured
FT_DA	
008.010: Fault duration: 56.5 s	
004.021: Running time:	Not measured
004.025: Fault current P p.u.:	Not measured
004.026: Flt.volt. PG/PP p.u.:	Not measured
004.024: Fault loop angle P:	Not measured
004.049: Fault curr. N p.u.:	Not measured
004.048: Fault loop angle N:	Not measured
004.079: Meas. loop selected:	Not measured
004.029: Fault react., prim.:	Not measured
004.028: Fault reactance, sec.:	Not measured
004.023: Fault impedance, sec:	Not measured
004.027: Fault locat. percent:	Not measured
004.022: Fault location:	Not measured
004.037: Load imped.post-flt.:	Not measured
004.038: Load angle post-flt.:	Not measured
004.039: Resid.curr. post-flt:	Not measured
Event recordings	
OL_RC	
033.020: Overload recording 1:	0
033.021: Overload recording 2:	0
033.022: Overload recording 3:	0
033.023: Overload recording 4:	0
033.024: Overload recording 5:	0
033.025: Overload recording 6:	0
033.026: Overload recording 7:	0
033.027: Overload recording 8:	0
GF_RC	
033.010: Ground flt.record. 1:	0
033.011: Ground flt.record. 2:	0
033.012: Ground flt.record. 3:	0
033.013: Ground flt.record. 4:	0
033.014: Ground flt.record. 5:	0
033.015: Ground flt.record. 6:	0
033.016: Ground flt.record. 7:	0
033.017: Ground flt.record. 8:	0
FT_RC	
003.000: Fault recording 1:	0
033.001: Fault recording 2:	0
033.002: Fault recording 3:	0
033.003: Fault recording 4:	0
033.004: Fault recording 5:	0
033.005: Fault recording 6:	0
033.006: Fault recording 7:	0
033.007: Fault recording 8:	0