



Informe de archivo de configuración

Subestación: SE HUAYCA

Archivo: 000.x3v

Número del modelo: 618

Impreso en: 25/04/2025 10:23:44

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:	3.623833.9
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 G
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-f4-78-04-6d
086.048: Variant of module L:	Module L: 9650319
086.191: Version of module L:	Version G
086.049: Variant of module B:	Module B: 0336187



Informe de archivo de configuración

Subestación: SE HUAYCA

Archivo: 000.x3v

Número del modelo: 618

Impreso en: 25/04/2025 10:23:45

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:	6000 s
221.030:	Return time select.:	6000 s
003.023:	Return time illumin.:	600 s
PC		
003.068:	Bay address:	1



Informe de archivo de configuración

Subestación: SE HUAYCA

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Número del modelo: 618

Impreso en: 25/04/2025 10:23:45

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_E01
104.062: TCP keep-alive timer: 10 s
104.001: IP address: 192.168.0.32
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



Informe de archivo de configuración

Subestación: SE HUAYCA

Archivo: 000.x3v

Número del modelo: 618

Impreso en: 25/04/2025 10:23:45

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:	DEV04 Open signal EXT
152.112: Fct. assignm. U 702:	DEV04 Closed signal EXT
152.115: Fct. assignm. U 703:	Without function
152.118: Fct. assignm. U 704:	Without function
152.121: Fct. assignm. U 705:	Without function
152.124: Fct. assignm. U 706:	Without function
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:	SIG_1 Signal S020 EXT
184.034: Fct. assignm. U 809:	SIG_1 Signal S021 EXT
184.038: Fct. assignm. U 810:	SIG_1 Signal S022 EXT
184.042: Fct. assignm. U 811:	SIG_1 Signal S023 EXT
184.046: Fct. assignm. U 812:	SIG_1 Signal S024 EXT
184.050: Fct. assignm. U 813:	SIG_1 Signal S025 EXT
184.054: Fct. assignm. U 814:	SIG_1 Signal S026 EXT
184.058: Fct. assignm. U 815:	SIG_1 Signal S027 EXT
184.062: Fct. assignm. U 816:	SIG_1 Signal S028 EXT
184.066: Fct. assignm. U 817:	SIG_1 Signal S029 EXT
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:	SIG_1 Signal S034 EXT
184.090: Fct. assignm. U 823:	SIG_1 Signal S035 EXT
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 "low"
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 "low"
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"



Informe de archivo de configuración

Subestación: SE HUAYCA

Archivo: 000.x3v

Número del modelo: 618

Impreso en: 25/04/2025 10:23:45

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: Without function
150.154: Fct. assignm. K 704: Without function
150.157: Fct. assignm. K 705: Without function
150.160: Fct. assignm. K 706: Without function
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: MAIN Mult. sig. 1 active
150.205: Fct. assignm. K 905: MAIN CB tripped
150.208: Fct. assignm. K 906: SFMON Warning (relay)
150.211: Fct. assignm. K 907: Without function
150.214: Fct. assignm. K 908: MAIN Blocked/faulty
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: LOGIC Output 2
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: NE 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



Informe de archivo de configuración

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Archivo: 000.x3v

Número del modelo: 618

Impreso en: 25/04/2025 10:23:46

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: MAIN Starting GF
085.022: Fct.assig. H 9 red: DTOC Trip signal tI>
085.025: Fct.assig. H10 red: DTOC Trip signal tIN>
085.028: Fct.assig. H11 red: f<> Trip signal f4
085.031: Fct.assig. H12 red: LOGIC Output 5 (t)
085.034: Fct.assig. H13 red: LOGIC Output 30 (t)
085.037: Fct.assig. H14 red: LOGIC Output 30 (t)
085.040: Fct.assig. H15 red: MAIN CB tripped
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 reset (fault)
085.041: Operating mode H 15: ES reset (fault)
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: 8710
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



Informe de archivo de configuración

Subestación: SE HUAYCA

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Número del modelo: 618

Impreso en: 25/04/2025 10:23:46

	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<>:	Without
f<>		
	056.033: Function group f<>:	With
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:	With
DEV05		
	210.247: Function group DEV05:	Without
DEV06		
	211.047: Function group DEV06:	Without
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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Número del modelo: 618

Impreso en: 25/04/2025 10:23:46

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: 1.0 A

010.026: IN,nom device: 1.0 A



Informe de archivo de configuración

Subestación: SE HUAYCA

Archivo: 000.x3v

Número del modelo: 618

Impreso en: 25/04/2025 10:23:46

010.009: Vnom V.T. sec.: 110 V
010.028: VNG,nom V.T. sec.: 110 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: f<> Trip signal f1 -->
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: Gen.trip command 1/2
221.013: Inp. asg. CB trip: DEV01 Switch. device open
221.050: Inp.asg.CB tr.en.ext: SIG_1 Logic signal S038
221.024: Inp.asg. CB trip ext: SIG_1 Logic signal S038
221.051: Inp.asg. mult.sig. 1: LOGIC Output 23
221.052: Inp.asg. mult.sig. 2: Without function



Informe de archivo de configuración

Subestación: SE HUAYCA

Archivo: 000.x3v

Número del modelo: 618

Impreso en: 25/04/2025 10:23:47

PSS	003.100: Control via USER:	No	
	003.060: Param.subs.sel. USER:	Parameter subset 1	
	003.063: Keep time:	Blocked	
SFMON	021.030: Fct. assign. warning:	SFMON Meas. circ. I faulty -->	
	021.018: Mon.sig. retention:	Blocked	
FT_DA	010.005: Line length:	18.00 km	
	010.012: Line reactance:	4.12 —	
	012.036: Angle kG:	0 °	
	012.037: Abs. value kG:	0.58	
	010.011: Start data acquisit.:	End of fault	
	010.032: Output fault locat.:	On general starting	
FT_RC	003.085: Fct. assign. trigger:	f<> Starting f1 -->	
	017.065: I>:	Blocked	
	003.078: Pre-fault time:	5 Periods	
	003.079: Post-fault time:	2 Periods	
	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:	Yes	
f<>	023.031: General enable USER:	Yes	
	018.202: Selection meas. volt:	Voltage A-B	
	018.201: Evaluation time:	4 Periods	
	018.200: Undervolt. block. V<:	0.65 Vnom(/©3)	
CBF	022.080: General enable USER:	Yes	
	022.154: Start with man. trip:	No	
	022.159: Fct.assignm. CBAux.:	Without function	
	022.160: I<:	0.10 Inom	
	022.165: t1 3p:	0.20 s	
	022.166: t2:	0.25 s	
	022.167: Min.dur. trip cmd.t1:	0.25 s	
	022.168: Min.dur. trip cmd.t2:	0.25 s	
	022.169: Latching trip cmd.t1:	No	
	022.170: Latching trip cmd.t2:	No	
	022.155: Delay/starting trig.:	0.00 s	
	022.171: Delay/fault beh. CB:	0.12 s	
	022.172: Delay/CB sync.superv:	Blocked	
MCMON	014.001: General enable USER:	Yes	
	017.028: Op. mode Idiff>:	IA, IB, IC	
	017.024: Idiff>:	0.30 IP,max	
	018.079: Op. mode Vmin< monit:	Vmin<	
	017.022: Vmin<:	Blocked	
	017.023: Operate delay:	5.00 s	
	018.019: Phase sequ. monitor.:	Yes	
LOGIC	031.099: General enable USER:	Yes	
	034.030: Set 1 USER:	No	
	034.031: Set 2 USER:	No	
	034.032: Set 3 USER:	No	
	034.033: Set 4 USER:	No	
	034.034: Set 5 USER:	No	
	034.035: Set 6 USER:	No	
	034.036: Set 7 USER:	No	
	034.037: Set 8 USER:	No	
	030.000: Fct.assignm. outp. 1:	SIG_1 Logic signal S022 -->	
	030.001: Op. mode t output 1:	Without timer stage	



Informe de archivo de configuración

Subestación: SE HUAYCA

Archivo: 000.x3v

Número del modelo: 618

Impreso en: 25/04/2025 10:23:47

```
..... 030.002: Time t1 output 1: 0.00 s
..... 030.003: Time t2 output 1: 0.00 s
..... 044.000: Sig.assig. outp. 1: Without function
..... 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: f<> Starting f1
..... 030.009: Op. mode t output 3: Oper./releas.delay
..... 030.010: Time t1 output 3: 600.00 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: LOGIC Output 3 (t)
..... 030.013: Op. mode t output 4: Oper./releas.delay
..... 030.014: Time t1 output 4: 600.00 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: LOGIC Output 4 (t)
..... 030.017: Op. mode t output 5: Oper./releas.delay
..... 030.018: Time t1 output 5: 600.00 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: LOGIC Output 5 (t)
..... 030.037: Op. mode t output 10: Oper./releas.delay
..... 030.038: Time t1 output 10: 0.00 s
..... 030.039: Time t2 output 10: 1.00 s
..... 044.018: Sig.assig. outp. 10: Without function
..... 044.019: Sig.assig.outp.10(t): Without function
..... 030.040: Fct.assignm. outp.11: f<> Starting f4
..... 030.041: Op. mode t output 11: Oper./releas.delay
..... 030.042: Time t1 output 11: 0.00 s
..... 030.043: Time t2 output 11: 1.00 s
..... 044.020: Sig.assig. outp. 11: Without function
..... 044.021: Sig.assig.outp.11(t): Without function
..... 030.044: Fct.assignm. outp.12: f<> Starting f2 -->
..... 030.045: Op. mode t output 12: Oper./releas.delay
```



Informe de archivo de configuración

Subestación: SE HUAYCA

Archivo: 000.x3v

Número del modelo: 618

Impreso en: 25/04/2025 10:23:47

```
..... 030.046: Time t1 output 12: 0.00 s
..... 030.047: Time t2 output 12: 1.00 s
..... 044.022: Sig.assig. outp. 12: Without function
..... 044.023: Sig.assig.outp.12(t): Without function
..... 030.048: Fct.assignm. outp.13: f<> Starting f1 -->
..... 030.049: Op. mode t output 13: Oper./releas.delay
..... 030.050: Time t1 output 13: 0.00 s
..... 030.051: Time t2 output 13: 1.00 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: f<> Starting f2 -->
..... 030.077: Op. mode t output 20: Oper./releas.delay
..... 030.078: Time t1 output 20: 600.00 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: LOGIC Output 20 (t)
..... 030.081: Op. mode t output 21: Oper./releas.delay
..... 030.082: Time t1 output 21: 600.00 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: LOGIC Output 21 (t)
..... 030.085: Op. mode t output 22: Oper./releas.delay
..... 030.086: Time t1 output 22: 600.00 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: SIG_1 Logic signal S013 -->
..... 030.089: Op. mode t output 23: Without timer stage
```



Informe de archivo de configuración

Subestación: SE HUAYCA

Archivo: 000.x3v

Número del modelo: 618

Impreso en: 25/04/2025 10:23:47

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
044.045: Sig.assig.outp.23(t): Without function
030.092: Fct.assignm. outp.24: LOGIC Output 22 (t)
030.093: Op. mode t output 24: Oper./releas.delay
030.094: Time t1 output 24: 600.00 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: SIG_1 Logic signal S038
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: CBF Start 3p EXT
044.049: Sig.assig.outp.25(t): Without function
031.000: Fct.assignm. outp.26: LOGIC Output 24 (t)
031.001: Op. mode t output 26: Oper./releas.delay
031.002: Time t1 output 26: 600.00 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: LOGIC Output 26 (t)
031.005: Op. mode t output 27: Oper./releas.delay
031.006: Time t1 output 27: 600.00 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: LOGIC Output 27 (t)
031.009: Op. mode t output 28: Oper./releas.delay
031.010: Time t1 output 28: 600.00 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: LOGIC Output 28 (t)
031.013: Op. mode t output 29: Oper./releas.delay
031.014: Time t1 output 29: 600.00 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: LOGIC Output 29 (t)
031.017: Op. mode t output 30: Oper./releas.delay
031.018: Time t1 output 30: 600.00 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



Informe de archivo de configuración

Subestación: SE HUAYCA

Archivo: 000.x3v

Número del modelo: 618

Impreso en: 25/04/2025 10:23:47

226.098: Min. sig. dur. S013:	0 s
226.104: Designat. sig. S014:	S014
226.105: Oper. mode sig. S014:	Start/end signal
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



Informe de archivo de configuración

Subestación: SE HUAYCA

Archivo: 000.x3v

Número del modelo: 618

Impreso en: 25/04/2025 10:23:48

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
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:	Not phase-selective
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:	2.25 Inom
017.084:	I>> dynamic PS1:	Blocked
017.002:	I>>> PS1:	Blocked
017.085:	I>>> dynamic PS1:	Blocked
017.004:	tI> PS1:	0.80 s
017.006:	tI>> PS1:	0.32 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



Informe de archivo de configuración

Subestación: SE HUAYCA

Archivo: 000.x3v

Número del modelo: 618

Impreso en: 25/04/2025 10:23:48

072.128: Eval. IN>, >>, >>> PS1:	Measured
017.003: IN> PS1:	0.100 Inom
017.081: IN> dynamic PS1:	Blocked
017.009: IN>> PS1:	0.900 Inom
017.086: IN>> dynamic PS1:	Blocked
017.018: IN>>> PS1:	Blocked
017.087: IN>>> dynamic PS1:	Blocked
017.008: tIN> PS1:	0.52 s
072.018: IN>>>> PS1:	Blocked
017.010: tIN>> PS1:	0.32 s
072.036: IN>>>> dyn. PS1:	Blocked
017.019: tIN>>> PS1:	Blocked
017.055: Puls.prol.IN>,intPS1:	0.08 s
017.056: tIN,interm. PS1:	Blocked
017.057: Hold-t. tIN>,intmPS1:	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
f<>	
018.196: Enable PS1:	Yes
018.120: Oper. mode f1 PS1:	f
018.100: f1 PS1:	47.50 Hz
018.104: tf1 PS1:	0.10 s
018.108: df1/dt PS1:	Blocked
018.112: Delta f1 PS1:	Blocked
018.116: Delta t1 PS1:	0.30 s
018.144: Oper. mode f2 PS1:	f
018.124: f2 PS1:	52.00 Hz
018.128: tf2 PS1:	0.10 s
018.132: df2/dt PS1:	Blocked
018.136: Delta f2 PS1:	Blocked
018.140: Delta t2 PS1:	0.30 s
018.168: Oper. mode f3 PS1:	f
018.148: f3 PS1:	Blocked
018.152: tf3 PS1:	Blocked
018.156: df3/dt PS1:	Blocked
018.160: Delta f3 PS1:	Blocked
018.164: Delta t3 PS1:	0.30 s
018.192: Oper. mode f4 PS1:	f
018.172: f4 PS1:	Blocked
018.176: tf4 PS1:	Blocked
018.180: df4/dt PS1:	Blocked
018.184: Delta f4 PS1:	Blocked
018.188: Delta t4 PS1:	0.30 s
Parameter subset 2	
MAIN	
001.076: Neutr.pt. treat. PS2:	Low-imped. grounding
001.211: Hld time dyn.par.PS2:	Blocked
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



Informe de archivo de configuración

Subestación: SE HUAYCA

Archivo: 000.x3v

Número del modelo: 618

Impreso en: 25/04/2025 10:23:48

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>,int	PS2:	0.08 s
073.038: tIN,interm.	PS2:	Blocked
073.030: tIN>>>>	PS2:	0.50 s
073.039: Hold-t. tIN>,intm	PS2:	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
f<>		
018.197: Enable	PS2:	No
018.121: Oper. mode f1	PS2:	f
018.101: f1	PS2:	49.80 Hz
018.105: tf1	PS2:	0.00 s
018.109: df1/dt	PS2:	2.0 Hz/s
018.113: Delta f1	PS2:	0.30 Hz
018.117: Delta t1	PS2:	0.30 s
018.145: Oper. mode f2	PS2:	f
018.125: f2	PS2:	49.80 Hz
018.129: tf2	PS2:	0.00 s
018.133: df2/dt	PS2:	2.0 Hz/s
018.137: Delta f2	PS2:	0.30 Hz
018.141: Delta t2	PS2:	0.30 s
018.169: Oper. mode f3	PS2:	f



Informe de archivo de configuración

Subestación: SE HUAYCA

Archivo: 000.x3v

Número del modelo: 618

Impreso en: 25/04/2025 10:23:48

018.149: f3	PS2:	49.80 Hz
018.153: tf3	PS2:	0.00 s
018.157: df3/dt	PS2:	2.0 Hz/s
018.161: Delta f3	PS2:	0.30 Hz
018.165: Delta t3	PS2:	0.30 s
018.193: Oper. mode f4	PS2:	f
018.173: f4	PS2:	49.80 Hz
018.177: tf4	PS2:	0.00 s
018.181: df4/dt	PS2:	2.0 Hz/s
018.185: Delta f4	PS2:	0.30 Hz
018.189: Delta t4	PS2:	0.30 s

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 restr	PS3:	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
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



Informe de archivo de configuración

Subestación: SE HUAYCA

Archivo: 000.x3v

Número del modelo: 618

Impreso en: 25/04/2025 10:23:48

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

f<>

018.198: Enable PS3: No
018.122: Oper. mode f1 PS3: f
018.102: f1 PS3: 49.80 Hz
018.106: tf1 PS3: 0.00 s
018.110: df1/dt PS3: 2.0 Hz/s
018.114: Delta f1 PS3: 0.30 Hz
018.118: Delta t1 PS3: 0.30 s
018.146: Oper. mode f2 PS3: f
018.126: f2 PS3: 49.80 Hz
018.130: tf2 PS3: 0.00 s
018.134: df2/dt PS3: 2.0 Hz/s
018.138: Delta f2 PS3: 0.30 Hz
018.142: Delta t2 PS3: 0.30 s
018.170: Oper. mode f3 PS3: f
018.150: f3 PS3: 49.80 Hz
018.154: tf3 PS3: 0.00 s
018.158: df3/dt PS3: 2.0 Hz/s
018.162: Delta f3 PS3: 0.30 Hz
018.166: Delta t3 PS3: 0.30 s
018.194: Oper. mode f4 PS3: f
018.174: f4 PS3: 49.80 Hz
018.178: tf4 PS3: 0.00 s
018.182: df4/dt PS3: 2.0 Hz/s
018.186: Delta f4 PS3: 0.30 Hz
018.190: Delta t4 PS3: 0.30 s

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 restrPS4: 10.0 Inom
001.224: Suppr.start.sig. PS4: 0.00 s
001.227: tGS PS4: 0.00 s

DTC

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



Informe de archivo de configuración

Subestación: SE HUAYCA

Archivo: 000.x3v

Número del modelo: 618

Impreso en: 25/04/2025 10:23:49

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
f<>		
018.199: Enable	PS4:	No
018.123: Oper. mode f1	PS4:	f
018.103: f1	PS4:	49.80 Hz
018.107: tf1	PS4:	0.00 s
018.111: df1/dt	PS4:	2.0 Hz/s
018.115: Delta f1	PS4:	0.30 Hz
018.119: Delta t1	PS4:	0.30 s
018.147: Oper. mode f2	PS4:	f
018.127: f2	PS4:	49.80 Hz
018.131: tf2	PS4:	0.00 s
018.135: df2/dt	PS4:	2.0 Hz/s
018.139: Delta f2	PS4:	0.30 Hz
018.143: Delta t2	PS4:	0.30 s
018.171: Oper. mode f3	PS4:	f
018.151: f3	PS4:	49.80 Hz
018.155: tf3	PS4:	0.00 s
018.159: df3/dt	PS4:	2.0 Hz/s
018.163: Delta f3	PS4:	0.30 Hz
018.167: Delta t3	PS4:	0.30 s
018.195: Oper. mode f4	PS4:	f
018.175: f4	PS4:	49.80 Hz
018.179: tf4	PS4:	0.00 s
018.183: df4/dt	PS4:	2.0 Hz/s
018.187: Delta f4	PS4:	0.30 Hz
018.191: Delta t4	PS4:	0.30 s
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



Informe de archivo de configuración

Subestación: SE HUAYCA

Archivo: 000.x3v

Número del modelo: 618

Impreso en: 25/04/2025 10:23:49

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 2
DEV02	210.050: Designat. ext. dev.:	Q9
	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
	210.091: Fct.asg.BI w/o SI op:	ILOCK Output 3
	210.092: Fct.asg.BI w/o SI cl:	ILOCK Output 4
DEV03	210.100: Designat. ext. dev.:	Q8
	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 5
	210.142: Fct.asg.BI w/o SI cl:	ILOCK Output 6
DEV04	210.150: Designat. ext. dev.:	Q6
	210.154: Op.time switch. dev.:	20 s
	210.161: Gr. assign. debounc.:	Group 1
	210.162: Interm. pos. suppr.:	No
	218.104: DEV-Name User:	
	210.177: Stat.ind.interm.pos.:	No
	210.164: Inp.asg. sw.tr. plug:	Without function
ILOCK	250.000: Fct.assignm. outp. 1:	Without function
	250.001: Fct.assignm. outp. 2:	~DEV02 Sw. dev. interm.pos. -->
	250.002: Fct.assignm. outp. 3:	~DEV01 Switch.device closed -->
	250.003: Fct.assignm. outp. 4:	DEV01 Switch. device open -->
	250.004: Fct.assignm. outp. 5:	DEV01 Switch. device open -->
	250.005: Fct.assignm. outp. 6:	DEV01 Switch. device open -->



Informe de archivo de configuración

Subestación: SE HUAYCA

Archivo: 000.x3v

Número del modelo: 618

Impreso en: 25/04/2025 10:23:49

250.006: Fct.assignm. outp. 7: DEV01 Switch. device open -->
250.007: Fct.assignm. outp. 8: DEV01 Switch. device open -->
250.008: Fct.assignm. outp. 9: Without function
250.009: Fct.assignm. outp.10: Without function
250.010: Fct.assignm. outp.11: Without function
250.011: Fct.assignm. outp.12: Without function
250.012: Fct.assignm. outp.13: Without function
250.013: Fct.assignm. outp.14: Without function
250.014: Fct.assignm. outp.15: Without function
250.015: Fct.assignm. outp.16: Without function
250.016: Fct.assignm. outp.17: Without function
250.017: Fct.assignm. outp.18: Without function
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: 04.04.25 dd.mm.yy
003.091: Time of day: 14:10 hh:mm
003.095: Time switching: Daylight saving time
004.040: Frequency f: 49.96 Hz
005.050: Curr. IP,max prim.: 84 A
005.036: IP,max prim.,demand: 82 A
006.226: IA prim,demand: 80 A
006.227: IB prim,demand: 82 A
006.228: IC prim,demand: 82 A
005.034: IP,maxprim,demand.st: 82 A
006.223: IA prim,demand stor.: 80 A
006.224: IB prim,demand stor.: 82 A
006.225: IC prim,demand stor.: 82 A
005.055: Curr. IP,min prim.: 83 A
005.040: Current A prim.: 83 A
006.040: Current B prim.: 84 A
007.040: Current C prim.: 85 A
005.010: Current -(IP) prim.: 0 A
004.043: Current IN prim.: 0 A
008.042: Volt. VPG,max prim.: 38.7 kV
009.042: Volt. VPG,min prim.: 38.5 kV
005.042: Voltage A-G prim.: 38.7 kV
006.042: Voltage B-G prim.: 38.7 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.: 67.0 kV
009.044: Voltage VPP,min prim.: 66.8 kV
005.044: Voltage A-B prim.: 67.1 kV
006.044: Voltage B-C prim.: 66.8 kV
007.044: Voltage C-A prim.: 66.8 kV
005.025: Appar. power S prim.: 9.7 MVA
004.050: Active power P prim.: 9.7 MW
004.052: Reac. power Q prim.: -0.4 Mvar
005.061: Act.energy outp.prim: 498.75 MWh
005.062: Act.energy inp. prim: 222.98 MWh



Informe de archivo de configuración

Subestación: SE HUAYCA

Archivo: 000.x3v

Número del modelo: 618

Impreso en: 25/04/2025 10:23:49

005.063:	React.en. outp. prim:	407.15 Mvar h
005.064:	React. en. inp. prim:	352.88 Mvar h
008.065:	Act.energy outp.prim:	104700.99 MWh
008.066:	Act.energy inp. prim:	40199.94 MWh
008.067:	React.en. outp. prim:	3683.95 Mvarh
008.068:	React. en. inp. prim:	6251.12 Mvarh
004.070:	Frequency f p.u.:	0.999 fnom
005.051:	Current IP,max p.u.:	0.213 Inom
005.037:	IP,max p.u.,demand:	0.206 Inom
006.235:	IA p.u.,demand:	0.202 Inom
006.236:	IB p.u.,demand:	0.205 Inom
006.237:	IC p.u.,demand:	0.206 Inom
005.035:	IP,maxp.u.,demand.st:	0.206 Inom
006.232:	IA p.u.,demand stor.:	0.202 Inom
006.233:	IB p.u.,demand stor.:	0.205 Inom
006.234:	IC p.u.,demand stor.:	0.206 Inom
005.056:	Current IP,min p.u.:	0.207 Inom
005.041:	Current A p.u.:	0.207 Inom
006.041:	Current B p.u.:	0.210 Inom
007.041:	Current C p.u.:	0.213 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.:	0.207 Inom
009.015:	Current Ineg p.u.:	0.000 Inom
008.043:	Voltage VPG,max p.u.:	0.586 Vnom
009.043:	Voltage VPG,min p.u.:	0.583 Vnom
005.043:	Voltage A-G p.u.:	0.586 Vnom
006.043:	Voltage B-G p.u.:	0.586 Vnom
007.043:	Voltage C-G p.u.:	0.583 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.:	1.016 Vnom
009.045:	Voltage VPP,min p.u.:	1.012 Vnom
005.045:	Voltage A-B p.u.:	1.016 Vnom
006.045:	Voltage B-C p.u.:	1.012 Vnom
007.045:	Voltage C-A p.u.:	1.010 Vnom
009.018:	Voltage Vpos p.u.:	0.585 Vnom
009.017:	Voltage Vneg p.u.:	0.001 Vnom
005.026:	Appar. power S p.u.:	0.213 Snom
004.051:	Active power P p.u.:	0.213 Snom
004.053:	Reac. power Q p.u.:	-0.010 Snom
004.054:	Active power factor:	1.000
004.055:	Load angle phi A:	-3 °
004.056:	Load angle phi B:	-3 °
004.057:	Load angle phi C:	-2 °
004.072:	Angle phi N:	Not measured
005.073:	Load angle phi A p.u.:	-0.03 phi,ref
005.074:	Load angle phi B p.u.:	-0.03 phi,ref
005.075:	Load angle phi C p.u.:	-0.02 phi,ref
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:	Equal phase
004.074:	Current -I unfilt.:	0.000 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:	"High"
152.114:	State U 703:	"Low"
152.117:	State U 704:	"Low"



Informe de archivo de configuración

Subestación: SE HUAYCA

Archivo: 000.x3v

Número del modelo: 618

Impreso en: 25/04/2025 10:23:49

152.120: State U 705:	"Low"
152.123: State U 706:	"Low"
184.001: State U 801:	"Low"
184.005: State U 802:	"Low"
184.009: State U 803:	"High"
184.013: State U 804:	"Low"
184.017: State U 805:	"Low"
184.021: State U 806:	"Low"
184.025: State U 807:	"High"
184.029: State U 808:	"High"
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:	"Low"
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:	Active
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



Informe de archivo de configuración

Subestación: SE HUAYCA

Archivo: 000.x3v

Número del modelo: 618

Impreso en: 25/04/2025 10:23:50

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
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



Informe de archivo de configuración

Subestación: SE HUAYCA

Archivo: 000.x3v

Número del modelo: 618

Impreso en: 25/04/2025 10:23:50

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
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



Informe de archivo de configuración

Subestación: SE HUAYCA

Archivo: 000.x3v

Número del modelo: 618

Impreso en: 25/04/2025 10:23:50

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
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



Informe de archivo de configuración

Subestación: SE HUAYCA

Archivo: 000.x3v

Número del modelo: 618

Impreso en: 25/04/2025 10:23:50

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
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



Informe de archivo de configuración

Subestación: SE HUAYCA

Archivo: 000.x3v

Número del modelo: 618

Impreso en: 25/04/2025 10:23:51

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
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 forwd.:	No
040.040: Fault P or G backw.:	No
038.044: Forw. w/o measur.:	No
038.045: Direct. using Vmeas:	No



Informe de archivo de configuración

Subestación: SE HUAYCA

Archivo: 000.x3v

Número del modelo: 618

Impreso en: 25/04/2025 10:23:51

038.047: Direct. using memory:	No
040.034: tVmemory running:	No
f<>	
006.075: Reset meas.val. EXT:	No
042.103: Blocking f1 EXT:	No
042.104: Blocking f2 EXT:	No
042.105: Blocking f3 EXT:	No
042.106: Blocking f4 EXT:	No
042.100: Enabled:	Yes
042.101: Ready:	Yes
042.140: Not ready:	No
042.102: Blocked by V<:	No
042.107: Starting f1:	No
042.108: Starting f1/df1:	No
042.109: Delta f1 triggered:	No
042.110: Delta t1 elapsed:	No
042.111: Trip signal f1:	No
042.115: Starting f2:	No
042.116: Starting f2/df2:	No
042.117: Delta f2 triggered:	No
042.118: Delta t2 elapsed:	No
042.119: Trip signal f2:	No
042.123: Starting f3:	No
042.124: Starting f3/df3:	No
042.125: Delta f3 triggered:	No
042.126: Delta t3 elapsed:	No
042.127: Trip signal f3:	No
042.131: Starting f4:	No
042.132: Starting f4/df4:	No
042.133: Delta f4 triggered:	No
042.134: Delta t4 elapsed:	No
042.135: Trip signal f4:	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
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:	Yes
038.231: Current flow B:	Yes
038.232: Current flow C:	Yes
038.233: Current flow Phx:	Yes
038.234: CB faulty EXT:	No
MCMON	
040.094: Enabled:	Yes
040.087: Meas. circ. I faulty:	No
038.038: Undervoltage:	No



Informe de archivo de configuración

Subestación: SE HUAYCA

Archivo: 000.x3v

Número del modelo: 618

Impreso en: 25/04/2025 10:23:51

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
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



Informe de archivo de configuración

Subestación: SE HUAYCA

Archivo: 000.x3v

Número del modelo: 618

Impreso en: 25/04/2025 10:23:51

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
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



Informe de archivo de configuración

Subestación: SE HUAYCA

Archivo: 000.x3v

Número del modelo: 618

Impreso en: 25/04/2025 10:23:52

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
DEV04		
210.180:	Open signal EXT:	No
210.181:	Closed signal EXT:	Yes
210.168:	Control state:	Closed
210.186:	Switch. device open:	No
210.187:	Switch.device closed:	Yes
210.188:	Sw. dev. interm.pos.:	No
218.006:	Open cmd. received:	No
218.007:	Close cmd. received:	No
ILOCK		
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



Informe de archivo de configuración

Subestación: SE HUAYCA

Archivo: 000.x3v

Número del modelo: 618

Impreso en: 25/04/2025 10:23:52

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:	No
226.149: Logic signal S019:	No
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
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:	No
226.245: Logic signal S031:	No
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: Without function

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



Informe de archivo de configuración

Subestación: SE HUAYCA

Archivo: 000.x3v

Número del modelo: 618

Impreso en: 25/04/2025 10:23:52

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
f<>	
003.080: Reset meas.val. 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
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:	159
009.091: No.overfl.act.en.inp:	61
009.092: No.ov/fl.reac.en.out:	5
009.093: No.ov/fl.reac.en.inp:	9
OP_RC	
100.002: No. oper. data sig.:	4
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:	0
004.010: No. system disturb.:	0
DEV01	
210.043: Operation counter:	27



Informe de archivo de configuración

Subestación: SE HUAYCA

Archivo: 000.x3v

Número del modelo: 618

Impreso en: 25/04/2025 10:23:52

DEV02	210.093: Operation counter:	24
	210.053: Dev. op. capability:	1
DEV03	210.143: Operation counter:	1
	210.103: Dev. op. capability:	1
DEV04	210.193: Operation counter:	0
	210.153: 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,react p.u.:	Not measured
	009.026: GF durat. curr.meas.:	Not measured
	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:	Not measured
	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 impd.post-flt.:	Not measured
	004.038: Load angle post-flt.:	Not measured
	004.039: Resid.curr. post-flt:	Not measured
f<>		
	005.002: Max. frequ. for f>:	Not measured
	005.001: Min. frequ. for f<:	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



Informe de archivo de configuración
Subestación: SE HUAYCA
Archivo: 000.x3v
Número del modelo: 618

Impreso en: 25/04/2025 10:23:52

.....		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