

Mejillones 61850 / Mejillones / CT2 / 7SJ612 V4.8 CT2 5150

MLFB: 7SJ6126\*\*E913FB0  
Versión del juego de parámetros: V04.81.04  
Ruta del equipo: C:\Users\Getac\Desktop\José Araya\0.SLRP\SLRP  
OSC\Envio\_SE\_Mejillones\_06052022\SE  
Autor:  
Creado el: 05.11.21 10:25:40  
Mod. por última vez el: 01.06.22 16:02:09  
Modo de operación: Sin línea  
Comentario:  
Valores de ajuste en: Presentación secundaria de los valores

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1      Device Configuration

Nº	Función	Volumen
0103	Setting Group Change Option	Disabled
0104	Oscillographic Fault Records	Enabled
0112	50/51	Time Overcurrent Curve IEC
0113	50N/51N	Definite Time only
0127	50 1Ph	Disabled
0117	Cold Load Pickup	Disabled
0122	2nd Harmonic Inrush Restraint	Disabled
0131	(sensitive) Ground fault	Disabled
0140	46 Negative Sequence Protection	Disabled
0142	49 Thermal Overload Protection	Disabled
0170	50BF Breaker Failure Protection	Disabled
0172	52 Breaker Wear Monitoring	Disabled
0182	74TC Trip Circuit Supervision	Disabled
	Flexible Function	

2      Distribución - completa (clasificado por líneas)

todas

2.1      Avisos

2.1.1      Device, General Settings

>Synchronize Internal Real Time Clock (AI\_P - Aviso individual pasajero)

>Reset LED (AI - Aviso individual)

Configurado el origen:

EB:

H 2

>Back Light on (AI - Aviso individual)

Configurado el origen:

EB:

H 3

Configurado al destino:

Buffer de aviso de operación:

ES

Device is Operational and Protecting (AS - Aviso de salida)

Configurado al destino:

Buffer de aviso de operación:

ES

Interface de sistema

At Least 1 Protection Funct. is Active (Intl - Aviso individual interno)

Configurado el origen:

Interface de sistema

Configurado al destino:

Buffer de aviso de operación:

ES

Interface de sistema

Reset Device (AS - Aviso de salida)

Configurado al destino:

Buffer de aviso de operación:

E

Interface de sistema

Initial Start of Device (AS - Aviso de salida)

Configurado al destino:

Buffer de aviso de operación:

E

Interface de sistema

Reset LED (Intl - Aviso individual interno)

Configurado el origen:

Interface de sistema

Configurado al destino:

Buffer de aviso de operación: E  
Interface de sistema

Resume (AS - Aviso de salida)

Configurado al destino:

Buffer de aviso de operación: E  
Interface de sistema

Clock Synchronization Error (AS - Aviso de salida)

Configurado al destino:

Buffer de aviso de operación: ES

Daylight Saving Time (AS - Aviso de salida)

Configurado al destino:

Buffer de aviso de operación: ES

Event lost (AS\_P - Aviso de salida pasajero)

Configurado al destino:

Buffer de aviso de operación: E

Flag Lost (AS - Aviso de salida)

Configurado al destino:

Buffer de aviso de operación: E

Chatter ON (AS - Aviso de salida)

Configurado al destino:

Buffer de aviso de operación: ES

Error with a summary alarm (AS - Aviso de salida)

Configurado al destino:

Buffer de aviso de operación: ES  
Interface de sistema

Alarm Summary Event (AS - Aviso de salida)

Configurado al destino:



Buffer de aviso de operación:

Interface de sistema

ES

Error 5V (AS - Aviso de salida)

Configurado al destino:

Buffer de aviso de operación:

ES

Error 0V (AS - Aviso de salida)

Configurado al destino:

Buffer de aviso de operación:

ES

Error -5V (AS - Aviso de salida)

Configurado al destino:

Buffer de aviso de operación:

ES

Error Power Supply (AS - Aviso de salida)

Configurado al destino:

Buffer de aviso de operación:

ES

Failure: Battery empty (AS - Aviso de salida)

Configurado al destino:

Buffer de aviso de operación:

ES

Setting calculation is running (AS - Aviso de salida)

Configurado al destino:

Buffer de aviso de operación:

ES

Settings Check (AS - Aviso de salida)

Level-2 change (AS - Aviso de salida)

Configurado al destino:

Buffer de aviso de operación:

ES

Error Board 1 (AS - Aviso de salida)

Configurado al destino:

Buffer de aviso de operación:

Interface de sistema

ES

Error Board 2 (AS - Aviso de salida)

Configurado al destino:  
Buffer de aviso de operación: ES  
Interface de sistema

Error Board 3 (AS - Aviso de salida)

Configurado al destino:  
Buffer de aviso de operación: ES  
Interface de sistema

Error Board 4 (AS - Aviso de salida)

Configurado al destino:  
Buffer de aviso de operación: ES  
Interface de sistema

Error Board 5 (AS - Aviso de salida)

Configurado al destino:  
Buffer de aviso de operación: ES  
Interface de sistema

Error Board 6 (AS - Aviso de salida)

Configurado al destino:  
Buffer de aviso de operación: ES  
Interface de sistema

Error Board 7 (AS - Aviso de salida)

Configurado al destino:  
Buffer de aviso de operación: ES  
Interface de sistema

Stop data transmission (Intl - Aviso individual interno)

Configurado al destino:  
Buffer de aviso de operación: ES  
Interface de sistema

>Stop data transmission (AI - Aviso individual)

Configurado al destino:  
CFC

Test mode (Intl - Aviso individual interno)

Configurado al destino:

Buffer de aviso de operación:

ES

Interface de sistema

>Test mode (AI - Aviso individual)

Feeder GROUNDED (Intl - Aviso individual interno)

Configurado el origen:

CFC

Breaker OPENED (Intl - Aviso individual interno)

Configurado el origen:

CFC

Hardware Test Mode (Intl - Aviso individual interno)

Configurado al destino:

Buffer de aviso de operación:

ES

Clock Synchronization (Intl\_P - Aviso individual interno pasajero)

Configurado el origen:

CFC

Alarm: NO calibration data available (AS - Aviso de salida)

Configurado al destino:

Buffer de aviso de operación:

ES

>Blocking of the offset supervision (AI - Aviso individual)

Configurado al destino:

Buffer de aviso de operación:

ES

Error: Offset (AS - Aviso de salida)

Configurado al destino:

Buffer de aviso de operación:

ES

Warn: Limit of Memory Data exceeded (AS - Aviso de salida)

Configurado al destino:



Buffer de aviso de operación: ES  
Avisos de advertencia: X

Warn: Limit of Memory Parameter exceeded (AS - Aviso de salida)

Configurado al destino:  
Buffer de aviso de operación: ES  
Avisos de advertencia: X

Warn: Limit of Memory Operation exceeded (AS - Aviso de salida)

Configurado al destino:  
Buffer de aviso de operación: ES  
Avisos de advertencia: X

Warn: Limit of Memory New exceeded (AS - Aviso de salida)

Configurado al destino:  
Buffer de aviso de operación: ES  
Avisos de advertencia: X

Disturbance CFC (AS - Aviso de salida)

Configurado al destino:  
Buffer de aviso de operación: ES  
Avisos de advertencia: X

Disturbance CFC Source (WM - Aviso de valores)

Configurado al destino:  
Buffer de aviso de operación: ES

Time from Pickup to drop out (WM - Aviso de valores)

Configurado al destino:  
Buffer de avisos de perturbaciones de red: ES

Time from Pickup to TRIP (WM - Aviso de valores)

Configurado al destino:  
Buffer de avisos de perturbaciones de red: ES

BLOCK Flexible Function (Intl - Aviso individual interno)

Configurado al destino:  
Buffer de aviso de operación: ES  
Mando

2.1.2 EN100-Modul 1

Edición (Intl - Aviso individual interno)

Edición (Intl - Aviso individual interno)

Failure EN100 Modul (Intl - Aviso individual interno)

Configurado al destino:

Buffer de aviso de operación: ES  
Avisos de advertencia: X

Failure EN100 Link Channel 1 (Ch1) (Intl - Aviso individual interno)

Configurado al destino:

Buffer de aviso de operación: ES

Failure EN100 Link Channel 2 (Ch2) (Intl - Aviso individual interno)

Configurado al destino:

Buffer de aviso de operación: ES

2.1.3 Power System Data 1

>Reverse Phase Rotation (AI - Aviso individual)

Configurado al destino:

Buffer de aviso de operación: ES

Phase rotation ABC (AS - Aviso de salida)

Configurado al destino:

Buffer de aviso de operación: ES

Phase rotation ACB (AS - Aviso de salida)

Configurado al destino:

Buffer de aviso de operación: ES

2.1.4 Oscillographic Fault Records

>Trigger Waveform Capture (AI - Aviso individual)

Configurado al destino:

CFC

Waveform data deleted (AS\_P - Aviso de salida pasajero)

Configurado al destino:

Buffer de aviso de operación: E

Fault Recording Start (Intl - Aviso individual interno)

Configurado el origen:

CFC

Configurado al destino:

Buffer de aviso de operación: ES

Fault recording is running (AS - Aviso de salida)

Configurado al destino:

Interface de sistema

2.1.5 Power System Data 2

>Manual close signal (AI - Aviso individual)

>Enable 50/67-(N)-2 (override 79 blk) (AI - Aviso individual)

Configurado al destino:

Buffer de aviso de operación: ES

Primary fault current Ia (WM - Aviso de valores)

Configurado al destino:

Buffer de avisos de perturbaciones de red: ES

Primary fault current Ib (WM - Aviso de valores)

Configurado al destino:

Buffer de avisos de perturbaciones de red: ES

Primary fault current Ic (WM - Aviso de valores)

Configurado al destino:

Buffer de avisos de perturbaciones de red: ES

Relay PICKUP (AS - Aviso de salida)

Configurado al destino:

Buffer de avisos de perturbaciones de red: E  
Interface de sistema

Relay GENERAL TRIP command (AS - Aviso de salida)

Configurado al destino:

Buffer de avisos de perturbaciones de red: E  
CFC  
Interface de sistema

Manual close signal detected (AS - Aviso de salida)

Configurado al destino:

Buffer de aviso de operación: ES

>52-a contact (OPEN, if bkr is open) (AI - Aviso individual)

Configurado el origen:

EB: H 5

Configurado al destino:

Buffer de aviso de operación: ES  
Interface de sistema

>52-b contact (OPEN, if bkr is closed) (AI - Aviso individual)

Configurado el origen:

EB: H 4

Configurado al destino:

Buffer de aviso de operación: ES  
Interface de sistema

Protection ON/OFF (via system port) (Intl - Aviso individual interno)

Configurado al destino:

Buffer de aviso de operación: ES

2.1.6 50/51 Phase/Ground Overcurrent

50(N)/51(N) O/C PICKUP (AS - Aviso de salida)

Configurado al destino:

Buffer de avisos de perturbaciones de red: ES  
Interface de sistema

50(N)/51(N) TRIP (AS - Aviso de salida)

Configurado al destino:

SB: N 1,N 2,N 3,N 4  
Buffer de avisos de perturbaciones de red: E  
Interface de sistema

>BLOCK 50/51 (AI - Aviso individual)

>BLOCK 50-3 (AI - Aviso individual)

>BLOCK 50-2 (AI - Aviso individual)

>BLOCK 50-1 (AI - Aviso individual)

>BLOCK 51 (AI - Aviso individual)

50/51 O/C switched OFF (AS - Aviso de salida)

Configurado al destino:

Buffer de aviso de operación: ES  
Interface de sistema

50/51 O/C is BLOCKED (AS - Aviso de salida)

Configurado al destino:

Buffer de aviso de operación: ES  
Buffer de avisos de perturbaciones de red: ES  
Interface de sistema

50/51 O/C is ACTIVE (AS - Aviso de salida)

Configurado al destino:

Buffer de aviso de operación: ES  
Interface de sistema

50/51 Phase A picked up (AS - Aviso de salida)

Configurado al destino:

LED: G 1  
Buffer de avisos de perturbaciones de red: ES  
Interface de sistema

50/51 Phase B picked up (AS - Aviso de salida)

Configurado al destino:

LED: G 2  
Buffer de avisos de perturbaciones de red: ES  
Interface de sistema

50/51 Phase C picked up (AS - Aviso de salida)

Configurado al destino:  
LED: G 3  
Buffer de avisos de perturbaciones de red: ES  
Interface de sistema

50-3 picked up (AS - Aviso de salida)

Configurado al destino:  
Buffer de avisos de perturbaciones de red: ES  
Interface de sistema

50-3 TRIP (AS - Aviso de salida)

Configurado al destino:  
Buffer de avisos de perturbaciones de red: E  
Interface de sistema

50-2 picked up (AS - Aviso de salida)

Configurado al destino:  
Buffer de avisos de perturbaciones de red: ES  
Interface de sistema

50-2 TRIP (AS - Aviso de salida)

Configurado al destino:  
Buffer de avisos de perturbaciones de red: E  
Interface de sistema

50-1 picked up (AS - Aviso de salida)

Configurado al destino:  
Buffer de avisos de perturbaciones de red: ES  
Interface de sistema

50-1 TRIP (AS - Aviso de salida)

Configurado al destino:  
LED: G 5  
Buffer de avisos de perturbaciones de red: E  
Interface de sistema

51 picked up (AS - Aviso de salida)

Configurado al destino:  
Buffer de avisos de perturbaciones de red: ES

Interface de sistema

51 TRIP (AS - Aviso de salida)

Configurado al destino:

LED: G 4  
Buffer de avisos de perturbaciones de red: E  
Interface de sistema

50-3 TimeOut (AS - Aviso de salida)

50-2 Time Out (AS - Aviso de salida)

50-1 Time Out (AS - Aviso de salida)

51 Time Out (AS - Aviso de salida)

50-3 BLOCKED (AS - Aviso de salida)

Configurado al destino:

Buffer de aviso de operación: ES  
Buffer de avisos de perturbaciones de red: ES

50-2 BLOCKED (AS - Aviso de salida)

Configurado al destino:

Buffer de aviso de operación: ES  
Buffer de avisos de perturbaciones de red: ES

50-1 BLOCKED (AS - Aviso de salida)

Configurado al destino:

Buffer de aviso de operación: ES  
Buffer de avisos de perturbaciones de red: ES

51 BLOCKED (AS - Aviso de salida)

Configurado al destino:

Buffer de aviso de operación: ES  
Buffer de avisos de perturbaciones de red: ES

>BLOCK 50N/51N (AI - Aviso individual)

>BLOCK 50N-3 (AI - Aviso individual)

>BLOCK 50N-2 (AI - Aviso individual)

>BLOCK 50N-1 (AI - Aviso individual)

50N/51N is OFF (AS - Aviso de salida)

Configurado al destino:  
Buffer de aviso de operación: ES  
Interface de sistema

50N/51N is BLOCKED (AS - Aviso de salida)

Configurado al destino:  
Buffer de aviso de operación: ES  
Buffer de avisos de perturbaciones de red: ES

50N/51N is ACTIVE (AS - Aviso de salida)

Configurado al destino:  
Buffer de aviso de operación: ES  
Interface de sistema

50N/51N picked up (AS - Aviso de salida)

Configurado al destino:  
Buffer de avisos de perturbaciones de red: ES  
Interface de sistema

50N-3 picked up (AS - Aviso de salida)

Configurado al destino:  
Buffer de avisos de perturbaciones de red: ES

50N-3 TRIP (AS - Aviso de salida)

Configurado al destino:  
Buffer de avisos de perturbaciones de red: E

50N-2 picked up (AS - Aviso de salida)

Configurado al destino:  
Buffer de avisos de perturbaciones de red: ES



Interface de sistema

50N-2 TRIP (AS - Aviso de salida)

Configurado al destino:

LED: G 7  
Buffer de avisos de perturbaciones de red: E  
Interface de sistema

50N-1 picked up (AS - Aviso de salida)

Configurado al destino:

Buffer de avisos de perturbaciones de red: ES  
Interface de sistema

50N-1 TRIP (AS - Aviso de salida)

Configurado al destino:

SB: N 5,N 7  
LED: G 6  
Buffer de avisos de perturbaciones de red: E  
Interface de sistema

50N-3 TimeOut (AS - Aviso de salida)

50N-2 Time Out (AS - Aviso de salida)

50N-1 Time Out (AS - Aviso de salida)

50N-3 BLOCKED (AS - Aviso de salida)

Configurado al destino:

Buffer de aviso de operación: ES  
Buffer de avisos de perturbaciones de red: ES

50N-2 BLOCKED (AS - Aviso de salida)

Configurado al destino:

Buffer de aviso de operación: ES  
Buffer de avisos de perturbaciones de red: ES

50N-1 BLOCKED (AS - Aviso de salida)

Configurado al destino:



Buffer de aviso de operación: ES  
Buffer de avisos de perturbaciones de red: ES

2.1.7 Measurement Supervision

Failure: Current Summation (AS - Aviso de salida)

Configurado al destino:  
Buffer de aviso de operación: ES

Failure: Current Balance (AS - Aviso de salida)

Configurado al destino:  
Buffer de aviso de operación: ES

Failure: General Current Supervision (AS - Aviso de salida)

Configurado al destino:  
Buffer de aviso de operación: ES

Failure: Phase Sequence (AS - Aviso de salida)

Configurado al destino:  
Buffer de aviso de operación: ES

Failure: Phase Sequence Current (AS - Aviso de salida)

Configurado al destino:  
Buffer de aviso de operación: ES

Measurement Supervision is switched OFF (AS - Aviso de salida)

Configurado al destino:  
Buffer de aviso de operación: ES

2.1.8 Control Authorization

Controlmode REMOTE (Intl - Aviso individual interno)

Configurado al destino:  
Buffer de aviso de operación: ES

Control Authority (Intl - Aviso individual interno)

Configurado al destino:  
Buffer de aviso de operación: ES  
Interface de sistema

Controlmode LOCAL (Intl - Aviso individual interno)

Configurado al destino:

Buffer de aviso de operación: ES

2.1.9 Control Device

52 Breaker (AD - Aviso doble)

Configurado el origen:

EB: X 4

Configurado al destino:

Buffer de aviso de operación: ES

CFC

Interface de sistema

Cuadro de control

Cuadro básico

Q0 operationcounter= (WM - Aviso de valores)

Disconnect Switch (AD - Aviso doble)

Configurado al destino:

Buffer de aviso de operación: ES

CFC

Interface de sistema

Cuadro de control

Cuadro básico

Q1 operationcounter= (WM - Aviso de valores)

Ground Switch (AD - Aviso doble)

Configurado al destino:

Buffer de aviso de operación: ES

CFC

Interface de sistema

Cuadro de control

Cuadro básico

Q8 operationcounter= (WM - Aviso de valores)

Interlocking: 52 Open (Intl - Aviso individual interno)

Configurado el origen:



CFC

Interlocking: 52 Close (Intl - Aviso individual interno)

Configurado el origen:  
CFC

Interlocking: Disconnect switch Open (Intl - Aviso individual interno)

Configurado el origen:  
CFC

Interlocking: Disconnect switch Close (Intl - Aviso individual interno)

Configurado el origen:  
CFC

Interlocking: Ground switch Open (Intl - Aviso individual interno)

Configurado el origen:  
CFC

Interlocking: Ground switch Close (Intl - Aviso individual interno)

Configurado el origen:  
CFC

Unlock data transmission via BI (Intl - Aviso individual interno)

Configurado el origen:  
CFC

Q2 Open/Close (AD - Aviso doble)

Configurado al destino:  
Buffer de aviso de operación: ES  
Interface de sistema

Q2 operationcounter= (WM - Aviso de valores)

Q9 Open/Close (AD - Aviso doble)

Configurado al destino:  
Buffer de aviso de operación: ES  
Interface de sistema

Q9 operationcounter= (WM - Aviso de valores)

Fan ON/OFF (AD - Aviso doble)

Configurado al destino:  
Buffer de aviso de operación:ES

2.1.10 Process Data

>CB ready Spring is charged (AI - Aviso individual)

Configurado al destino:  
CFC

>Door closed (AI - Aviso individual)

Configurado al destino:  
CFC

>Cabinet door open (AI - Aviso individual)

Configurado al destino:  
Buffer de aviso de operación:ES  
CFC

>CB waiting for Spring charged (AI - Aviso individual)

Configurado al destino:  
Buffer de aviso de operación:ES  
CFC

>No Voltage (Fuse blown) (AI - Aviso individual)

Configurado al destino:  
Buffer de aviso de operación:ES  
CFC

>Error Motor Voltage (AI - Aviso individual)

Configurado al destino:  
Buffer de aviso de operación:ES

>Error Control Voltage (AI - Aviso individual)

Configurado al destino:  
Buffer de aviso de operación:ES

>SF6-Loss (AI - Aviso individual)

Configurado al destino:  
Buffer de aviso de operación: ES

>Error Meter (AI - Aviso individual)

Configurado al destino:  
Buffer de aviso de operación: ES

>Transformer Temperature (AI - Aviso individual)

Configurado al destino:  
Buffer de aviso de operación: ES

>Transformer Danger (AI - Aviso individual)

Configurado al destino:  
Buffer de aviso de operación: ES

2.1.11 Min/Max Measurement Setup

>I MIN/MAX Buffer Reset (AI - Aviso individual)

Configurado al destino:  
Buffer de aviso de operación: E

>I1 MIN/MAX Buffer Reset (AI - Aviso individual)

Configurado al destino:  
Buffer de aviso de operación: E

>Idmd MIN/MAX Buffer Reset (AI - Aviso individual)

Configurado al destino:  
Buffer de aviso de operación: E

>Theta MIN/MAX Buffer Reset (AI - Aviso individual)

Configurado al destino:  
Buffer de aviso de operación: E

2.1.12 Set Points (Measured Values)

Set Point Phase A dmd> (AS - Aviso de salida)

Configurado el origen:  
CFC



Configurado al destino:

Buffer de aviso de operación: ES

Set Point Phase B dmd> (AS - Aviso de salida)

Configurado el origen:

CFC

Configurado al destino:

Buffer de aviso de operación: ES

Set Point Phase C dmd> (AS - Aviso de salida)

Configurado el origen:

CFC

Configurado al destino:

Buffer de aviso de operación: ES

Set Point positive sequence I1dmd> (AS - Aviso de salida)

Configurado el origen:

CFC

Configurado al destino:

Buffer de aviso de operación: ES

Set Point 37-1 Undercurrent alarm (AS - Aviso de salida)

Configurado el origen:

CFC

Configurado al destino:

Buffer de aviso de operación: ES

2.1.13 Statistics

Counter of operating hours (WM - Aviso de valores)

Configurado al destino:

Interface de sistema

>BLOCK Op Counter (AI - Aviso individual)

Configurado al destino:

Buffer de aviso de operación: ES

Accumulation of interrupted current Ph A (WM - Aviso de valores)

Configurado al destino:

Interface de sistema

Accumulation of interrupted current Ph B (WM - Aviso de valores)

Configurado al destino:

Interface de sistema

Accumulation of interrupted current Ph C (WM - Aviso de valores)

Configurado al destino:

Interface de sistema

2.1.14 Set Points (Statistic)

Set Point Operating Hours (AS - Aviso de salida)

Configurado al destino:

Buffer de aviso de operación:ES

2.1.15 Threshold-Switch

Threshold Value 1 (Intl - Aviso individual interno)

Configurado al destino:

Buffer de aviso de operación:ES  
Mando

2.2 Comandos

2.2.1 Control Device

52 Breaker (CR\_D12 - Comando doble 12, con retroaviso)

Configurado el origen:

Interface de sistema

Configurado al destino:

CFC

Cuadro de control

Cuadro básico

Mando

Disconnect Switch (CR\_D2 - Comando doble 2, con retroaviso)

Configurado el origen:

Interface de sistema

Configurado al destino:

CFC

Cuadro de control

Cuadro básico

Mando

Ground Switch (CR\_D2 - Comando doble 2, con retroaviso)

Configurado el origen:

Interface de sistema

Configurado al destino:

CFC

Cuadro de control

Cuadro básico

Mando

Q2 Open/Close (CR\_D2 - Comando doble 2, con retroaviso)

Configurado el origen:

Interface de sistema

Q9 Open/Close (CR\_D2 - Comando doble 2, con retroaviso)

Configurado el origen:

Interface de sistema

Fan ON/OFF (CR\_D2 - Comando doble 2, con retroaviso)

2.3      Valores de medida

2.3.1    Measurement

la (VM - Valor de medida)

Configurado al destino:  
CFC  
Interface de sistema

lb (VM - Valor de medida)

Configurado al destino:  
CFC  
Interface de sistema

lc (VM - Valor de medida)

Configurado al destino:  
CFC  
Interface de sistema

ln (VM - Valor de medida)

Configurado al destino:  
CFC  
Interface de sistema

l1 (positive sequence) (VM - Valor de medida)

Configurado al destino:  
CFC  
Interface de sistema

l2 (negative sequence) (VM - Valor de medida)

Configurado al destino:  
CFC  
Interface de sistema

3lo (zero sequence) (VM - Valor de medida)

Configurado al destino:  
CFC  
Interface de sistema

2.3.2 Demand Measurement Setup

I A demand (VM - Valor de medida)

Configurado al destino:  
CFC

I B demand (VM - Valor de medida)

Configurado al destino:  
CFC

I C demand (VM - Valor de medida)

Configurado al destino:  
CFC

I1 (positive sequence) Demand (VM - Valor de medida)

Configurado al destino:  
CFC

2.3.3 Min/Max Measurement Setup

Ia Min (VMT - Valor de medida con tiempo)

Ia Max (VMT - Valor de medida con tiempo)

Ib Min (VMT - Valor de medida con tiempo)

Ib Max (VMT - Valor de medida con tiempo)

Ic Min (VMT - Valor de medida con tiempo)

Ic Max (VMT - Valor de medida con tiempo)

I1 (positive sequence) Minimum (VMT - Valor de medida con tiempo)

I1 (positive sequence) Maximum (VMT - Valor de medida con tiempo)

I A Demand Minimum (VMT - Valor de medida con tiempo)

I A Demand Maximum (VMT - Valor de medida con tiempo)

I B Demand Minimum (VMT - Valor de medida con tiempo)

I B Demand Maximum (VMT - Valor de medida con tiempo)

I C Demand Minimum (VMT - Valor de medida con tiempo)

I C Demand Maximum (VMT - Valor de medida con tiempo)

I1 (positive sequence) Demand Minimum (VMT - Valor de medida con tiempo)

I1 (positive sequence) Demand Maximum (VMT - Valor de medida con tiempo)

Overload Meter Min (VMT - Valor de medida con tiempo)

Overload Meter Max (VMT - Valor de medida con tiempo)

2.3.4 Set Points (Measured Values)

I A dmd> (VL - Valor límite)

Configurado al destino:

Ventana de valor de medida  
CFC

Set Points(MV)

I B dmd> (VL - Valor límite)

Configurado al destino:

Ventana de valor de medida  
CFC

Set Points(MV)

I C dmd> (VL - Valor límite)

Configurado al destino:



Ventana de valor de medida  
CFC

Set Points(MV)

I1dmd> (VL - Valor límite)

Configurado al destino:

Ventana de valor de medida  
CFC

Set Points(MV)

37-1 under current (VL - Valor límite)

Configurado al destino:

Ventana de valor de medida  
CFC

Set Points(MV)

2.4    Valores de contaje

2.4.1    Energy

Pulsed Energy Wp (active) (VCI - Valor del contaje de impulsos)

Configurado al destino:  
Ventana de valor de contaje

Pulsed Energy Wq (reactive) (VCI - Valor del contaje de impulsos)

Configurado al destino:  
Ventana de valor de contaje

2.4.2    Statistics

Number of TRIPs= (VCI - Valor del contaje de impulsos)

Configurado al destino:  
Interface de sistema

3 Configuración - corta (orientación por columna)

3.1 Entradas binarias

Entradas binarias

Entradas binarias	Nº	Grupo	Información	Tipo	Distribución
2	00005	Device, General	>Reset LED	AI	H
3		Device, General	>Back Light on	AI	H
4	04602	P.System Data 2	>52-b contact (OPEN, if bkr is closed)	AI	H
4		Control Device	52 Breaker	AD	X
5	04601	P.System Data 2	>52-a contact (OPEN, if bkr is open)	AI	H
5		Control Device	52 Breaker	AD	X

3.2 Salidas binarias

Salidas binarias

SB	Nº	Grupo	Información	Tipo	Distribución
1	01791	50/51 Overcur.	50(N)/51(N) TRIP	AS	N
2	01791	50/51 Overcur.	50(N)/51(N) TRIP	AS	N
3	01791	50/51 Overcur.	50(N)/51(N) TRIP	AS	N
4	01791	50/51 Overcur.	50(N)/51(N) TRIP	AS	N
5	01836	50/51 Overcur.	50N-1 TRIP	AS	N
7	01836	50/51 Overcur.	50N-1 TRIP	AS	N

3.3 LED

LED

LED	Nº	Grupo	Información	Tipo	Distribución
1	01762	50/51 Overcur.	50/51 Phase A picked up	AS	G
2	01763	50/51 Overcur.	50/51 Phase B picked up	AS	G
3	01764	50/51 Overcur.	50/51 Phase C picked up	AS	G
4	01825	50/51 Overcur.	51 TRIP	AS	G
5	01815	50/51 Overcur.	50-1 TRIP	AS	G
6	01836	50/51 Overcur.	50N-1 TRIP	AS	G
7	01833	50/51 Overcur.	50N-2 TRIP	AS	G

3.4 CFC

CFC

Nº	Grupo	Información	Origen	Destino
00016	Device, General	>DataStop / >Stop data transmission		X
	Device, General	Feeder gnd / Feeder GROUNDED	X	
	Device, General	Brk OPENED / Breaker OPENED	X	
	Device, General	SynchClock / Clock Synchronization	X	
00004	Osc. Fault Rec.	>Trig.Wave.Cap. / >Trigger Waveform Capture		X



CFC(2)

Nº	Grupo	Información	Origen	Destino
	Osc. Fault Rec.	FltRecSta / Fault Recording Start	X	
00511	P.System Data 2	Relay TRIP / Relay GENERAL TRIP command		X
	Control Device	52Breaker / 52 Breaker		X
	Control Device	52Breaker / 52 Breaker		X
	Control Device	Disc.Swit. / Disconnect Switch		X
	Control Device	Disc.Swit. / Disconnect Switch		X
	Control Device	GndSwit. / Ground Switch		X
	Control Device	GndSwit. / Ground Switch		X
	Control Device	52 Open / Interlocking: 52 Open	X	
	Control Device	52 Close / Interlocking: 52 Close	X	
	Control Device	Disc.Open / Interlocking: Disconnect switch Open	X	
	Control Device	Disc.Close / Interlocking: Disconnect switch Close	X	
	Control Device	GndSw Open / Interlocking: Ground switch Open	X	
	Control Device	GndSw Cl. / Interlocking: Ground switch Close	X	
	Control Device	UnlockDT / Unlock data transmission via BI	X	
	Process Data	>CB ready / >CB ready Spring is charged		X
	Process Data	>DoorClose / >Door closed		X
	Process Data	>Door open / >Cabinet door open		X
	Process Data	>CB wait / >CB waiting for Spring charged		X
	Process Data	>No Volt. / >No Voltage (Fuse blown)		X
00601	Measurement	Ia = / Ia		X
00602	Measurement	Ib = / Ib		X
00603	Measurement	Ic = / Ic		X
00604	Measurement	In = / In		X
00605	Measurement	I1 = / I1 (positive sequence)		X
00606	Measurement	I2 = / I2 (negative sequence)		X
00831	Measurement	3Io = / 3Io (zero sequence)		X
00963	Demand meter	Ia dmd= / I A demand		X
00964	Demand meter	Ib dmd= / I B demand		X
00965	Demand meter	Ic dmd= / I C demand		X
00833	Demand meter	I1 dmd= / I1 (positive sequence) Demand		X
	Set Points(MV)	I Admd> / I A dmd>		X
	Set Points(MV)	I Bdmd> / I B dmd>		X
	Set Points(MV)	I Cdmd> / I C dmd>		X
	Set Points(MV)	I1dmd> / I1dmd>		X
00273	Set Points(MV)	SP. I A dmd> / Set Point Phase A dmd>	X	
00274	Set Points(MV)	SP. I B dmd> / Set Point Phase B dmd>	X	
00275	Set Points(MV)	SP. I C dmd> / Set Point Phase C dmd>	X	
00276	Set Points(MV)	SP. I1dmd> / Set Point positive sequence I1dmd>	X	
00284	Set Points(MV)	SP. 37-1 alarm / Set Point 37-1 Undercurrent alarm	X	
	Set Points(MV)	37-1 / 37-1 under current		X

3.5 Teclas de función

sin configurar

3.6 Buffer

3.6.1 Buffer de avisos de operación

Buffer de avisos de operación

Nº	Grupo	Información	Buffer
	Device, General	>Back Light on	ES
00051	Device, General	Device is Operational and Protecting	ES
00052	Device, General	At Least 1 Protection Funct. is Active	ES
00055	Device, General	Reset Device	E
00056	Device, General	Initial Start of Device	E
	Device, General	Reset LED	E
00067	Device, General	Resume	E
00068	Device, General	Clock Synchronization Error	ES
00069	Device, General	Daylight Saving Time	ES
00110	Device, General	Event lost	E
00113	Device, General	Flag Lost	E
00125	Device, General	Chatter ON	ES
00140	Device, General	Error with a summary alarm	ES
00160	Device, General	Alarm Summary Event	ES
00144	Device, General	Error 5V	ES
00145	Device, General	Error 0V	ES
00146	Device, General	Error -5V	ES
00147	Device, General	Error Power Supply	ES
00177	Device, General	Failure: Battery empty	ES
00070	Device, General	Setting calculation is running	ES
00072	Device, General	Level-2 change	ES
00183	Device, General	Error Board 1	ES
00184	Device, General	Error Board 2	ES
00185	Device, General	Error Board 3	ES
00186	Device, General	Error Board 4	ES
00187	Device, General	Error Board 5	ES
00188	Device, General	Error Board 6	ES
00189	Device, General	Error Board 7	ES
	Device, General	Stop data transmission	ES
	Device, General	Test mode	ES
	Device, General	Hardware Test Mode	ES
00193	Device, General	Alarm: NO calibration data available	ES
17565	Device, General	>Blocking of the offset supervision	ES
00191	Device, General	Error: Offset	ES
00320	Device, General	Warn: Limit of Memory Data exceeded	ES
00321	Device, General	Warn: Limit of Memory Parameter exceeded	ES
00322	Device, General	Warn: Limit of Memory Operation exceeded	ES
00323	Device, General	Warn: Limit of Memory New exceeded	ES
	Device, General	Disturbance CFC	ES
17566	Device, General	Disturbance CFC Source	ES
236.2127.01	Device, General	BLOCK Flexible Function	ES
009.0100.01	EN100-Modul 1	Failure EN100 Modul	ES



Buffer de avisos de operación(2)

Nº	Grupo	Información	Buffer
009.0101.01	EN100-Modul 1	Failure EN100 Link Channel 1 (Ch1)	ES
009.0102.01	EN100-Modul 1	Failure EN100 Link Channel 2 (Ch2)	ES
05145	P.System Data 1	>Reverse Phase Rotation	ES
05147	P.System Data 1	Phase rotation ABC	ES
05148	P.System Data 1	Phase rotation ACB	ES
00203	Osc. Fault Rec.	Waveform data deleted	E
	Osc. Fault Rec.	Fault Recording Start	ES
02720	P.System Data 2	>Enable 50/67-(N)-2 (override 79 blk)	ES
00561	P.System Data 2	Manual close signal detected	ES
04601	P.System Data 2	>52-a contact (OPEN, if bkr is open)	ES
04602	P.System Data 2	>52-b contact (OPEN, if bkr is closed)	ES
00126	P.System Data 2	Protection ON/OFF (via system port)	ES
01751	50/51 Overcur.	50/51 O/C switched OFF	ES
01752	50/51 Overcur.	50/51 O/C is BLOCKED	ES
01753	50/51 Overcur.	50/51 O/C is ACTIVE	ES
10034	50/51 Overcur.	50-3 BLOCKED	ES
01852	50/51 Overcur.	50-2 BLOCKED	ES
01851	50/51 Overcur.	50-1 BLOCKED	ES
01855	50/51 Overcur.	51 BLOCKED	ES
01756	50/51 Overcur.	50N/51N is OFF	ES
01757	50/51 Overcur.	50N/51N is BLOCKED	ES
01758	50/51 Overcur.	50N/51N is ACTIVE	ES
10035	50/51 Overcur.	50N-3 BLOCKED	ES
01854	50/51 Overcur.	50N-2 BLOCKED	ES
01853	50/51 Overcur.	50N-1 BLOCKED	ES
00162	Measurem.Superv	Failure: Current Summation	ES
00163	Measurem.Superv	Failure: Current Balance	ES
00161	Measurem.Superv	Failure: General Current Supervision	ES
00171	Measurem.Superv	Failure: Phase Sequence	ES
00175	Measurem.Superv	Failure: Phase Sequence Current	ES
00197	Measurem.Superv	Measurement Supervision is switched OFF	ES
	Cntrl Authority	Controlmode REMOTE	ES
	Cntrl Authority	Control Authority	ES
	Cntrl Authority	Controlmode LOCAL	ES
	Control Device	52 Breaker	ES
	Control Device	Disconnect Switch	ES
	Control Device	Ground Switch	ES
	Control Device	Q2 Open/Close	ES
	Control Device	Q9 Open/Close	ES
	Control Device	Fan ON/OFF	ES
	Process Data	>Cabinet door open	ES
	Process Data	>CB waiting for Spring charged	ES
	Process Data	>No Voltage (Fuse blown)	ES
	Process Data	>Error Motor Voltage	ES
	Process Data	>Error Control Voltage	ES
	Process Data	>SF6-Loss	ES



Buffer de avisos de operación(3)

Nº	Grupo	Información	Buffer
	Process Data	>Error Meter	ES
	Process Data	>Transformer Temperature	ES
	Process Data	>Transformer Danger	ES
00395	Min/Max meter	>I MIN/MAX Buffer Reset	E
00396	Min/Max meter	>I1 MIN/MAX Buffer Reset	E
00403	Min/Max meter	>Idmd MIN/MAX Buffer Reset	E
00412	Min/Max meter	>Theta MIN/MAX Buffer Reset	E
00273	Set Points(MV)	Set Point Phase A dmd>	ES
00274	Set Points(MV)	Set Point Phase B dmd>	ES
00275	Set Points(MV)	Set Point Phase C dmd>	ES
00276	Set Points(MV)	Set Point positive sequence I1dmd>	ES
00284	Set Points(MV)	Set Point 37-1 Undercurrent alarm	ES
00409	Statistics	>BLOCK Op Counter	ES
00272	SetPoint(Stat)	Set Point Operating Hours	ES
	Thresh.-Switch	Threshold Value 1	ES

3.6.2 Buffer de avisos de contacto a tierra

sin configurar

3.6.3 Buffer de avisos de perturbación de red

Buffer de avisos de perturbación de red

Nº	Grupo	Información	Buffer
00545	Device, General	Time from Pickup to drop out	ES
00546	Device, General	Time from Pickup to TRIP	ES
00533	P.System Data 2	Primary fault current Ia	ES
00534	P.System Data 2	Primary fault current Ib	ES
00535	P.System Data 2	Primary fault current Ic	ES
00501	P.System Data 2	Relay PICKUP	E
00511	P.System Data 2	Relay GENERAL TRIP command	E
01761	50/51 Overcur.	50(N)/51(N) O/C PICKUP	ES
01791	50/51 Overcur.	50(N)/51(N) TRIP	E
01752	50/51 Overcur.	50/51 O/C is BLOCKED	ES
01762	50/51 Overcur.	50/51 Phase A picked up	ES
01763	50/51 Overcur.	50/51 Phase B picked up	ES
01764	50/51 Overcur.	50/51 Phase C picked up	ES
01767	50/51 Overcur.	50-3 picked up	ES
01769	50/51 Overcur.	50-3 TRIP	E
01800	50/51 Overcur.	50-2 picked up	ES
01805	50/51 Overcur.	50-2 TRIP	E
01810	50/51 Overcur.	50-1 picked up	ES
01815	50/51 Overcur.	50-1 TRIP	E
01820	50/51 Overcur.	51 picked up	ES
01825	50/51 Overcur.	51 TRIP	E



Buffer de avisos de perturbación de red(2)

Nº	Grupo	Información	Buffer
10034	50/51 Overcur.	50-3 BLOCKED	ES
01852	50/51 Overcur.	50-2 BLOCKED	ES
01851	50/51 Overcur.	50-1 BLOCKED	ES
01855	50/51 Overcur.	51 BLOCKED	ES
01757	50/51 Overcur.	50N/51N is BLOCKED	ES
01765	50/51 Overcur.	50N/51N picked up	ES
01768	50/51 Overcur.	50N-3 picked up	ES
01770	50/51 Overcur.	50N-3 TRIP	E
01831	50/51 Overcur.	50N-2 picked up	ES
01833	50/51 Overcur.	50N-2 TRIP	E
01834	50/51 Overcur.	50N-1 picked up	ES
01836	50/51 Overcur.	50N-1 TRIP	E
10035	50/51 Overcur.	50N-3 BLOCKED	ES
01854	50/51 Overcur.	50N-2 BLOCKED	ES
01853	50/51 Overcur.	50N-1 BLOCKED	ES

3.6.4 Buffer de valores de perturbación

sin configurar

3.7 Cuadro

sin configurar

3.8 Interface de sistema IEC 61850

Interface de sistema IEC 61850

Nº	Grupo	Información	Tipo	O	D	X	Objeto IEC 61850
00051	Device, General	Device is Operational and Protecting	AS		X		PROT/LLN0/Mod PROT/LLN0/Beh PROT/LLN0/Health PROT/LPHD1/PhyHealth PROT/PTRC1/Mod PROT/PTRC1/Beh PROT/PTRC1/Health PROT/XCBR1/Mod PROT/XCBR1/Beh PROT/XCBR1/Health . . .
00052	Device, General	At Least 1 Protection Funct. is Active	Intl	X	X		PROT/PTRC1/Mod PROT/PTRC1/Beh



Interface de sistema IEC 61850(2)

Nº	Grupo	Información	Tipo	O	D	X	Objeto IEC 61850
00055	Device, General	Reset Device	AS		X		PROT/LPHD1/Proxy PROT/XCBR1/Loc PROT/XCBR1/BlkOpn PROT/XCBR1/BlkCls MEAS/LPHD1/Proxy DR/LPHD1/Proxy CTRL/LLN0/Mod CTRL/LLN0/Beh CTRL/CALH1/Mod CTRL/CALH1/Beh . . .
00056	Device, General	Initial Start of Device	AS		X		CTRL/LPHD1/DevStr
	Device, General	Reset LED	Intl	X	X		CTRL/LLN0/LEDRs
00067	Device, General	Resume	AS		X		CTRL/LPHD1/DevStr
00140	Device, General	Error with a summary alarm	AS		X		CTRL/CALH1/GrAlm
00160	Device, General	Alarm Summary Event	AS		X		CTRL/CALH1/GrWrn
00183	Device, General	Error Board 1	AS		X		CTRL/LLN0/Health CTRL/CALH1/ErrBoard1
00184	Device, General	Error Board 2	AS		X		CTRL/LLN0/Health CTRL/CALH1/ErrBoard2
00185	Device, General	Error Board 3	AS		X		CTRL/LLN0/Health CTRL/CALH1/ErrBoard3
00186	Device, General	Error Board 4	AS		X		CTRL/LLN0/Health CTRL/CALH1/ErrBoard4
00187	Device, General	Error Board 5	AS		X		CTRL/LLN0/Health CTRL/CALH1/ErrBoard5
00188	Device, General	Error Board 6	AS		X		CTRL/LLN0/Health CTRL/CALH1/ErrBoard6
00189	Device, General	Error Board 7	AS		X		CTRL/LLN0/Health CTRL/CALH1/ErrBoard7
	Device, General	Stop data transmission	Intl		X		PROT/LLN0/Mod PROT/LLN0/Beh PROT/PTRC1/Beh PROT/XCBR1/Beh PROT/PTOC6/Beh PROT/PTOC7/Beh PROT/PTOC1/Beh PROT/PTOC8/Beh PROT/PTOC9/Beh PROT/PTOC2/Beh . . .



Interface de sistema IEC 61850(3)

Nº	Grupo	Información	Tipo	O	D	X	Objeto IEC 61850
	Device, General	Test mode	Intl		X		PROT/LLN0/Mod PROT/LLN0/Beh PROT/LLN0/OpTmh PROT/LPHD1/Proxy PROT/PTRC1/Beh PROT/PTRC1/Tr PROT/PTRC1/Str PROT/PTRC1/FinTr PROT/XCBR1/Beh PROT/XCBR1/Loc . . .
30053	Osc. Fault Rec.	Fault recording is running	AS		X		DR/SC_RDRE1/RcdMade DR/SC_RDRE1/RcdStr
00501	P.System Data 2	Relay PICKUP	AS		X		PROT/PTRC1/Str
00511	P.System Data 2	Relay GENERAL TRIP command	AS		X		PROT/PTRC1/Tr
04601	P.System Data 2	>52-a contact (OPEN, if bkr is open)	AI		X		PROT/XCBR1/Pos
04602	P.System Data 2	>52-b contact (OPEN, if bkr is closed)	AI		X		PROT/XCBR1/Pos
01761	50/51 Overcur.	50(N)/51(N) O/C PICKUP	AS		X		PROT/PTRC2/Str
01791	50/51 Overcur.	50(N)/51(N) TRIP	AS		X		PROT/PTRC2/Op
01751	50/51 Overcur.	50/51 O/C switched OFF	AS		X		PROT/PTOC6/Mod PROT/PTOC6/Beh PROT/PTOC7/Mod PROT/PTOC7/Beh PROT/PTOC1/Mod PROT/PTOC1/Beh PROT/PTOC18/Mod PROT/PTOC18/Beh
01752	50/51 Overcur.	50/51 O/C is BLOCKED	AS		X		PROT/PTOC1/Beh
01753	50/51 Overcur.	50/51 O/C is ACTIVE	AS		X		PROT/PTOC6/Mod PROT/PTOC6/Beh PROT/PTOC7/Mod PROT/PTOC7/Beh PROT/PTOC1/Mod PROT/PTOC1/Beh PROT/PTOC18/Mod PROT/PTOC18/Beh
01762	50/51 Overcur.	50/51 Phase A picked up	AS		X		PROT/PTRC2/Str
01763	50/51 Overcur.	50/51 Phase B picked up	AS		X		PROT/PTRC2/Str
01764	50/51 Overcur.	50/51 Phase C picked up	AS		X		PROT/PTRC2/Str
01767	50/51 Overcur.	50-3 picked up	AS		X		PROT/PTOC18/Str
01769	50/51 Overcur.	50-3 TRIP	AS		X		PROT/PTOC18/Op
01800	50/51 Overcur.	50-2 picked up	AS		X		PROT/PTOC7/Str
01805	50/51 Overcur.	50-2 TRIP	AS		X		PROT/PTOC7/Op
01810	50/51 Overcur.	50-1 picked up	AS		X		PROT/PTOC6/Str
01815	50/51 Overcur.	50-1 TRIP	AS		X		PROT/PTOC6/Op
01820	50/51 Overcur.	51 picked up	AS		X		PROT/PTOC1/Str
01825	50/51 Overcur.	51 TRIP	AS		X		PROT/PTOC1/Op



Interface de sistema IEC 61850(4)

Nº	Grupo	Información	Tipo	O	D	X	Objeto IEC 61850
01756	50/51 Overcur.	50N/51N is OFF	AS		X		PROT/PTOC8/Mod PROT/PTOC8/Beh PROT/PTOC9/Mod PROT/PTOC9/Beh PROT/PTOC2/Mod PROT/PTOC2/Beh
01758	50/51 Overcur.	50N/51N is ACTIVE	AS		X		PROT/PTOC8/Mod PROT/PTOC8/Beh PROT/PTOC9/Mod PROT/PTOC9/Beh PROT/PTOC2/Mod PROT/PTOC2/Beh
01765	50/51 Overcur.	50N/51N picked up	AS		X		PROT/PTRC2/Str
01831	50/51 Overcur.	50N-2 picked up	AS		X		PROT/PTOC9/Str
01833	50/51 Overcur.	50N-2 TRIP	AS		X		PROT/PTOC9/Op
01834	50/51 Overcur.	50N-1 picked up	AS		X		PROT/PTOC8/Str
01836	50/51 Overcur.	50N-1 TRIP	AS		X		PROT/PTOC8/Op
	Cntrl Authority	Control Authority	Intl		X		CTRL/LLN0/Loc
	Control Device	52 Breaker	CR_D12	X			CTRL/Q0XCBR1 CTRL/Q0CSWI1 Interruptor de potencia Q0 OpCnt=
	Control Device	52 Breaker	AD		X		CTRL/Q0XCBR1 CTRL/Q0CSWI1 Interruptor de potencia Q0 OpCnt=
	Control Device	Disconnect Switch	CR_D2	X			CTRL/Q1XSWI1 CTRL/Q1CSWI1 Seccionador Q1 OpCnt=
	Control Device	Disconnect Switch	AD		X		CTRL/Q1XSWI1 CTRL/Q1CSWI1 Seccionador Q1 OpCnt=
	Control Device	Ground Switch	CR_D2	X			CTRL/Q8XSWI1 CTRL/Q8CSWI1 Seccionadores de puesta a tierra Q8 OpCnt=
	Control Device	Ground Switch	AD		X		CTRL/Q8XSWI1 CTRL/Q8CSWI1 Seccionadores de puesta a tierra Q8 OpCnt=
	Control Device	Q2 Open/Close	CR_D2	X			CTRL/Q2XSWI1 CTRL/Q2CSWI1 Seccionador Q2 OpCnt=
	Control Device	Q2 Open/Close	AD		X		CTRL/Q2XSWI1 CTRL/Q2CSWI1 Seccionador Q2 OpCnt=
	Control Device	Q9 Open/Close	CR_D2	X			CTRL/Q9XSWI1 CTRL/Q9CSWI1 Seccionador Q9 OpCnt=



Interface de sistema IEC 61850(5)

Nº	Grupo	Información	Tipo	O	D	X	Objeto IEC 61850
	Control Device	Q9 Open/Close	AD		X		CTRL/Q9XSWI1 CTRL/Q9CSWI1 Seccionador Q9 OpCnt=
00601	Measurement	Ia	VM		X		MEAS/MMXU1/A
00602	Measurement	Ib	VM		X		MEAS/MMXU1/A
00603	Measurement	Ic	VM		X		MEAS/MMXU1/A
00604	Measurement	In	VM		X		MEAS/MMXU1/A
00605	Measurement	I1 (positive sequence)	VM		X		MEAS/MSQI1/SeqA
00606	Measurement	I2 (negative sequence)	VM		X		MEAS/MSQI1/SeqA
00831	Measurement	3Io (zero sequence)	VM		X		MEAS/MSQI1/SeqA
01020	Statistics	Counter of operating hours	WM		X		PROT/LLN0/OpTmh CTRL/LLN0/OpTmh
01021	Statistics	Accumulation of interrupted current Ph A	WM		X		PROT/XCBR1/SumSwARs1
01022	Statistics	Accumulation of interrupted current Ph B	WM		X		PROT/XCBR1/SumSwARs2
01023	Statistics	Accumulation of interrupted current Ph C	WM		X		PROT/XCBR1/SumSwARs3
	Statistics	Number of TRIPs=	VCI		X		PROT/XCBR1/OpCnt

4 Interfaces

4.1 Interface serie en el PC

Dirección (Interface operacional):	1
Bloque de transmisión:	8 E(ven) 1
Velocidad de datos:	57600
Puerto COM:	1
Ajustes bloque de transmisión, velocidad de datos y dirección	Tomar del registro "Interface operacional"

4.2 Direcciones VD:

Dirección DIGSI VD:	3
Dirección SIPROTEC VD:	10011
Dirección Proxy VD:	4
Dirección SIPROTEC T103 VD:	0

4.3 Interface operacional

Dirección:	1
Bloque de transmisión:	8 E(ven) 1
Velocidad de datos:	57600
Pausa máx. entre telegramas (0...50):	0
Dirección IP:	192.168.1.1
Máscara de red secundaria:	255.255.255.0
Capa izquierda:	PPP (Punto a punto, serial)
Autorización de acceso a la interfaz de parametrización:	Activado
Autorización de acceso a la interfaz de prueba y diagnóstico:	Activado
Manejo de Web Monitor:	Acceso total

4.4 Interface de servicio

Dirección:	1
Bloque de transmisión:	8 E(ven) 1
Velocidad de datos:	38400
Pausa máx. entre telegramas (0...50):	0
Dirección IP:	192.168.2.1
Máscara de red secundaria:	255.255.255.0
Capa izquierda:	PPP (Punto a punto, serial)
Autorización de acceso a la interfaz de parametrización:	Activado
Autorización de acceso a la interfaz de prueba y diagnóstico:	Activado
Manejo de Web Monitor:	Lectura

4.5 Ethernet en el equipo

Dirección IP:	172.35.13.71
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Máscara de red secundaria: 255.255.255.0  
Standard gateway: 172.35.13.7  
Capa izquierda: Ethernet  
Autorización de acceso a la interfaz de parametrización: Activado  
Autorización de acceso a la interfaz de prueba y diagnóstico: Activado  
Manejo de Web Monitor: Lectura  
SNMP (Simple Network Management Protocol): ON  
Servidor web: ON  
IEC 61850: ON  
Protocolo adicional de módulo EN100: ON  
DIGSI vía módulo EN100: ON

4.6 Ethernet en PC

Dirección IP: 10.47.148.58  
Máscara de red secundaria: 255.255.255.0

5 Passwords

Número	Función	Activo
1	Contraseña para conexión/marcado/seguimiento	Activado
2	Contraseña para conexión no enclavada	Activado
4	Contraseña para prueba y diagnóstico	Activado
6	Contraseña para menús de hardware y prueba	Activado
5	Contraseña para parámetro individual	Activado
7	Contraseña para juego de parámetros	Activado
50	Contraseña de aparatos de maniobra 1	Activado
51	Contraseña de aparatos de maniobra 2	Activado
52	Contraseña de aparatos de maniobra 3	Activado
53	Contraseña de aparatos de maniobra 4	Activado
54	Contraseña de aparatos de maniobra 5	Activado
55	Contraseña de aparatos de maniobra 6	Activado
56	Contraseña de aparatos de maniobra 7	Activado
57	Contraseña de aparatos de maniobra 8	Activado
58	Contraseña de aparatos de maniobra 9	Activado
59	Contraseña de aparatos de maniobra 10	Activado
100	Contraseña para derechos de acceso Acceso pleno (sólo para SIPROTEC B&B)	Activado
101	Contraseña para derechos de acceso Modificar (sólo para SIPROTEC B&B)	Activado
102	Contraseña para derechos de acceso Leer (sólo para SIPROTEC B&B)	Activado

6 General Device Settings

6.1 Grupo Device, General Settings; Grupo General

Grupo Device, General Settings; Grupo General

Nº	Parámetro	Valor	Grupo
0610	Fault Display on LED / LCD	Display Targets on TRIP only	todo
0640	Start image Default Display	image 1	todo
0625A	Minimum hold time of latched LEDs	0 min	todo

7 Power System Data 1

7.1 Grupo Power System Data 1; Grupo Power System

Grupo Power System Data 1; Grupo Power System

Nº	Parámetro	Valor	Grupo
0214	Rated Frequency	50 Hz	todo
0209	Phase Sequence	A B C	todo
0276	Unit of temperature measurement	Degree Celsius	todo
0201	CT Starpoint	towards Line	todo
0280	Holmgreen-conn. (for fast sum-i-monit.)	NO	todo
0251A	CT Connection	Ia, Ib, Ic, (IGnd)	todo
0235A	Storage of th. Replicas w/o Power Supply	NO	todo
0250A	50, 51 Time Overcurrent with 2ph. prot.	OFF	todo

7.2 Grupo Power System Data 1; Grupo CT's

Grupo Power System Data 1; Grupo CT's

Nº	Parámetro	Valor	Grupo
0204	CT Rated Primary Current	600 A	todo
0205	CT Rated Secondary Current	5A	todo
0217	Ignd-CT rated primary current	60 A	todo
0218	Ignd-CT rated secondary current	1A	todo

7.3 Grupo Power System Data 1; Grupo Breaker

Grupo Power System Data 1; Grupo Breaker

Nº	Parámetro	Valor	Grupo
0210A	Minimum TRIP Command Duration	0,15 sec	todo
0211A	Maximum Close Command Duration	1,00 sec	todo
0212	Closed Breaker Min. Current Threshold	0,50 A	todo

8 Oscillographic Fault Records

8.1 Grupo Oscillographic Fault Records; Grupo Osc. Fault Rec.

Grupo Oscillographic Fault Records; Grupo Osc. Fault Rec.

Nº	Parámetro	Valor	Grupo
0401	Waveform Capture	Save with TRIP	todo
0402	Scope of Waveform Data	Power System fault	todo
0403	Max. length of a Waveform Capture Record	2,00 sec	todo
0404	Captured Waveform Prior to Trigger	0,50 sec	todo
0405	Captured Waveform after Event	0,50 sec	todo
0406	Capture Time via Binary Input	0,10 sec	todo

9 Grupos de parámetros

9.1 Grupo Power System Data 2; Grupo General

Grupo Power System Data 2; Grupo General

Nº	Parámetro	Valor	Grupo
1102	Measurem:FullScaleCurrent(Equipm.rating)	600 A	A

9.2 Grupo 50/51 Phase/Ground Overcurrent; Grupo General

Grupo 50/51 Phase/Ground Overcurrent; Grupo General

Nº	Parámetro	Valor	Grupo
1201	50, 51 Phase Time Overcurrent	ON	A
1213A	Manual Close Mode	51 instantaneously	A
1215A	50 Drop-Out Time Delay	0,00 sec	A
1301	50N, 51N Ground Time Overcurrent	ON	A
1313A	Manual Close Mode	Inactive	A
1315A	50N Drop-Out Time Delay	0,00 sec	A

9.3 Grupo 50/51 Phase/Ground Overcurrent; Grupo 50

Grupo 50/51 Phase/Ground Overcurrent; Grupo 50

Nº	Parámetro	Valor	Grupo
1219A	50-3 measurement of	Fundamental component	A
1216A	50-3 active	Always	A
1217	50-3 Pickup	oo A	A
1218	50-3 Time Delay	oo sec	A
1220A	50-2 measurement of	Fundamental component	A
1214A	50-2 active	Always	A
1202	50-2 Pickup	oo A	A
1203	50-2 Time Delay	oo sec	A
1221A	50-1 measurement of	Fundamental component	A
1204	50-1 Pickup	25,00 A	A
1205	50-1 Time Delay	0,60 sec	A

9.4 Grupo 50/51 Phase/Ground Overcurrent; Grupo 51

Grupo 50/51 Phase/Ground Overcurrent; Grupo 51

Nº	Parámetro	Valor	Grupo
1222A	51 measurement of	Fundamental component	A
1207	51 Pickup	4,17 A	A
1208	51 Time Dial	1,00 sec	A
1210	Drop-out characteristic	Instantaneous	A
1211	IEC Curve	Normal Inverse	A

9.5 Grupo 50/51 Phase/Ground Overcurrent; Grupo 50N

Grupo 50/51 Phase/Ground Overcurrent; Grupo 50N

Nº	Parámetro	Valor	Grupo
1319A	50N-3 measurement of	Fundamental component	A
1316A	50N-3 active	Always	A
1317	50N-3 Pickup	oo A	A
1318	50N-3 Time Delay	0,00 sec	A
1320A	50N-2 measurement of	Fundamental component	A
1314A	50N-2 active	Always	A
1302	50N-2 Pickup	2,50 A	A
1303	50N-2 Time Delay	0,90 sec	A
1321A	50N-1 measurement of	Fundamental component	A
1304	50N-1 Pickup	0,50 A	A
1305	50N-1 Time Delay	1,50 sec	A

9.6 Grupo Measurement Supervision; Grupo General

Grupo Measurement Supervision; Grupo General

Nº	Parámetro	Valor	Grupo
8101	Measurement Supervision	OFF	A

9.7 Grupo Measurement Supervision; Grupo MeasSupervision

Grupo Measurement Supervision; Grupo MeasSupervision

Nº	Parámetro	Valor	Grupo
8104	Current Threshold for Balance Monitoring	2,50 A	A
8105	Balance Factor for Current Monitor	0,50	A



Grupo Measurement Supervision; Grupo MeasSupervision(2)

Nº	Parámetro	Valor	Grupo
8111A	T Current Balance Monitor	5 sec	A

9.8 Grupo Demand Measurement Setup; Grupo Measurement

Grupo Demand Measurement Setup; Grupo Measurement

Nº	Parámetro	Valor	Grupo
8301	Demand Calculation Intervals	60 Min per., 1 Sub.	A
8302	Demand Synchronization Time	On the Hour	A

9.9 Grupo Min/Max Measurement Setup; Grupo Measurement

Grupo Min/Max Measurement Setup; Grupo Measurement

Nº	Parámetro	Valor	Grupo
8311	Automatic Cyclic Reset Function	YES	A
8312	MinMax Reset Timer	0 min	A
8313	MinMax Reset Cycle Period	7 day(s)	A
8314	MinMax Start Reset Cycle in	1 Days	A

10 Time Synchronization

Origen de la sincronización temporal: Ethernet NTP  
Aviso de perturbación después de: 10 mín.  
Formato de tiempo en el cuadro: Alemán  
Desplazamiento reloj por radio: 00:00  
Con conmutación de horario de verano  
Offset Horario de verano para GMT: +02:00  
Inicio horario de verano: Último Domingo en Marzo a 02:00 hora  
Fin horario de verano: Último Domingo en Octubre a 03:00 hora  
Offset Huso horario para GMT: +01:00

11 Annunciation

11.1 Event Log - 10/11/2021 10:18:30.568 (SIGNALS\BM000001.SFP)

Event Log - 10/11/2021 10:18:30.568 (SIGNALS\BM000001.SFP)

Número	Aviso	Valor	Fecha y hora	Causa
	Fault Recording Start	OFF	10.11.2021 13:18:21.148	Spontaneous Com.Issued=AutoLocal
	Fault Recording Start	ON	10.11.2021 13:18:20.975	Control Issued Command Issued=DIGSI
	Fault Recording Start	OFF	10.11.2021 13:18:18.848	Spontaneous Com.Issued=AutoLocal
	Fault Recording Start	ON	10.11.2021 13:18:18.697	Control Issued Command Issued=DIGSI
	Fault Recording Start	OFF	10.11.2021 13:18:16.348	Spontaneous Com.Issued=AutoLocal
	Fault Recording Start	ON	10.11.2021 13:18:16.196	Control Issued Command Issued=DIGSI
009.0100.01	Failure EN100 Modul	OFF	10.11.2021 13:16:45.334	Spontaneous Com.Issued=AutoLocal
00197	Measurement Supervision is switched OFF	ON	10.11.2021 13:16:40.419	Spontaneous Com.Issued=AutoLocal
00068	Clock Synchronization Error	OFF	10.11.2021 13:16:32.001	Spontaneous Com.Issued=AutoLocal
00284	Set Point 37-1 Undercurrent alarm	ON	10.11.2021 13:16:32.378	Spontaneous Com.Issued=AutoLocal
00052	At Least 1 Protection Funct. is Active	ON	10.11.2021 13:16:32.371	Spontaneous
01758	50N/51N is ACTIVE	ON	10.11.2021 13:16:32.371	Spontaneous Com.Issued=AutoLocal
01753	50/51 O/C is ACTIVE	ON	10.11.2021 13:16:32.371	Spontaneous Com.Issued=AutoLocal
00051	Device is Operational and Protecting	ON	10.11.2021 13:16:31.976	Spontaneous Com.Issued=AutoLocal
009.0102.01	Failure EN100 Link Channel 2 (Ch2)	ON	10.11.2021 13:16:31.651	Spontaneous Com.Issued=AutoLocal
00056	Initial Start of Device	ON	10.11.2021 13:16:31.434	Spontaneous Com.Issued=AutoLocal
00055	Reset Device	ON	10.11.2021 13:16:31.434	Spontaneous Com.Issued=AutoLocal
05147	Phase rotation ABC	ON	10.11.2021 13:16:31.451	Spontaneous Com.Issued=AutoLocal
009.0100.01	Failure EN100 Modul	ON	10.11.2021 13:16:31.457	Spontaneous Com.Issued=AutoLocal

11.2 Event Log - 25/01/2022 14:20:17.631 (SIGNALS\BM000002.SFP)

Event Log - 25/01/2022 14:20:17.631 (SIGNALS\BM000002.SFP)

Número	Aviso	Valor	Fecha y hora	Causa
	Reset LED	ON	25.01.2022 16:57:26.765	Spontaneous Command Issued=Local



Event Log - 10/11/2021 10:18:30.568 (SIGNALS\BM000001.SFP)(2)

Estado

Event Log - 25/01/2022 14:20:17.631 (SIGNALS\BM000002.SFP)(2)

Estado

Event Log - 25/01/2022 14:20:17.631 (SIGNALS\BM000002.SFP)(3)

Número	Aviso	Valor	Fecha y hora	Causa
00301	Power System fault	11 - OFF	25.01.2022 16:56:56.141	Spontaneous Com.Issued=AutoLocal
	Reset LED	ON	25.01.2022 16:56:52.965	Spontaneous Command Issued=Local
00301	Power System fault	11 - ON	25.01.2022 16:56:44.942	Spontaneous Com.Issued=AutoLocal
00301	Power System fault	10 - OFF	25.01.2022 16:56:26.779	Spontaneous Com.Issued=AutoLocal
00301	Power System fault	10 - ON	25.01.2022 16:56:15.431	Spontaneous Com.Issued=AutoLocal
	Reset LED	ON	25.01.2022 16:56:06.752	Spontaneous Command Issued=Local
00301	Power System fault	9 - OFF	25.01.2022 16:56:01.526	Spontaneous Com.Issued=AutoLocal
00301	Power System fault	9 - ON	25.01.2022 16:55:51.801	Spontaneous Com.Issued=AutoLocal
	Reset LED	ON	25.01.2022 16:54:23.447	Spontaneous Command Issued=Local
00301	Power System fault	8 - OFF	25.01.2022 16:54:13.380	Spontaneous Com.Issued=AutoLocal
00301	Power System fault	8 - ON	25.01.2022 16:54:11.059	Spontaneous Com.Issued=AutoLocal
	Reset LED	ON	25.01.2022 16:53:55.046	Spontaneous Command Issued=Local
00301	Power System fault	7 - OFF	25.01.2022 16:53:29.464	Spontaneous Com.Issued=AutoLocal
00301	Power System fault	7 - ON	25.01.2022 16:53:22.728	Spontaneous Com.Issued=AutoLocal
	Reset LED	ON	25.01.2022 16:53:12.937	Spontaneous Command Issued=Local
00301	Power System fault	6 - OFF	25.01.2022 16:52:51.144	Spontaneous Com.Issued=AutoLocal
00301	Power System fault	6 - ON	25.01.2022 16:52:33.118	Spontaneous Com.Issued=AutoLocal
	Reset LED	ON	25.01.2022 16:52:28.033	Spontaneous Command Issued=Local
00301	Power System fault	5 - OFF	25.01.2022 16:52:24.188	Spontaneous Com.Issued=AutoLocal
00301	Power System fault	5 - ON	25.01.2022 16:51:55.494	Spontaneous Com.Issued=AutoLocal
	Reset LED	ON	25.01.2022 16:51:51.392	Spontaneous Command Issued=Local
00301	Power System fault	4 - OFF	25.01.2022 16:51:12.014	Spontaneous Com.Issued=AutoLocal
00301	Power System fault	4 - ON	25.01.2022 16:50:17.934	Spontaneous Com.Issued=AutoLocal
009.0101.01	Failure EN100 Link Channel 1 (Ch1)	OFF	23.11.2021 11:11:43.248	Spontaneous Com.Issued=AutoLocal
009.0101.01	Failure EN100 Link Channel 1 (Ch1)	ON	23.11.2021 11:06:53.548	Spontaneous Com.Issued=AutoLocal

Event Log - 25/01/2022 14:20:17.631 (SIGNALS\BM000002.SFP)(4)

Event Log - 25/01/2022 14:20:17.631 (SIGNALS\BM000002.SFP)(5)

Número	Aviso	Valor	Fecha y hora	Causa
00068	Clock Synchronization Error	ON	10.11.2021 13:42:33.148	Spontaneous Com.Issued=AutoLocal
00070	Setting calculation is running	OFF	10.11.2021 13:32:57.432	Spontaneous Com.Issued=AutoLocal
00072	Level-2 change	ON	10.11.2021 13:32:57.427	Spontaneous Com.Issued=AutoLocal
00068	Clock Synchronization Error	ON	10.11.2021 13:32:52.148	Spontaneous Com.Issued=AutoLocal
00070	Setting calculation is running	ON	10.11.2021 13:32:42.031	Spontaneous Com.Issued=AutoLocal
	Fault Recording Start	OFF	10.11.2021 13:18:21.148	Spontaneous Com.Issued=AutoLocal
	Fault Recording Start	ON	10.11.2021 13:18:20.975	Control Issued Command Issued=DIGSI
	Fault Recording Start	OFF	10.11.2021 13:18:18.848	Spontaneous Com.Issued=AutoLocal
	Fault Recording Start	ON	10.11.2021 13:18:18.697	Control Issued Command Issued=DIGSI
	Fault Recording Start	OFF	10.11.2021 13:18:16.348	Spontaneous Com.Issued=AutoLocal
	Fault Recording Start	ON	10.11.2021 13:18:16.196	Control Issued Command Issued=DIGSI
009.0100.01	Failure EN100 Modul	OFF	10.11.2021 13:16:45.334	Spontaneous Com.Issued=AutoLocal
00197	Measurement Supervision is switched OFF	ON	10.11.2021 13:16:40.419	Spontaneous Com.Issued=AutoLocal
00068	Clock Synchronization Error	OFF	10.11.2021 13:16:32.001	Spontaneous Com.Issued=AutoLocal
00284	Set Point 37-1 Undercurrent alarm	ON	10.11.2021 13:16:32.378	Spontaneous Com.Issued=AutoLocal
00052	At Least 1 Protection Funct. is Active	ON	10.11.2021 13:16:32.371	Spontaneous
01758	50N/51N is ACTIVE	ON	10.11.2021 13:16:32.371	Spontaneous Com.Issued=AutoLocal
01753	50/51 O/C is ACTIVE	ON	10.11.2021 13:16:32.371	Spontaneous Com.Issued=AutoLocal
00051	Device is Operational and Protecting	ON	10.11.2021 13:16:31.976	Spontaneous Com.Issued=AutoLocal
009.0102.01	Failure EN100 Link Channel 2 (Ch2)	ON	10.11.2021 13:16:31.651	Spontaneous Com.Issued=AutoLocal
00056	Initial Start of Device	ON	10.11.2021 13:16:31.434	Spontaneous Com.Issued=AutoLocal
00055	Reset Device	ON	10.11.2021 13:16:31.434	Spontaneous Com.Issued=AutoLocal
05147	Phase rotation ABC	ON	10.11.2021 13:16:31.451	Spontaneous Com.Issued=AutoLocal
009.0100.01	Failure EN100 Modul	ON	10.11.2021 13:16:31.457	Spontaneous Com.Issued=AutoLocal

Event Log - 25/01/2022 14:20:17.631 (SIGNALS\BM000002.SFP)(6)

## 11.3 Event Log - 25/01/2022 14:33:23.280 (SIGNALS\BM000003.SFP)

Event Log - 25/01/2022 14:33:23.280 (SIGNALS\BM000003.SFP)

Número	Aviso	Valor	Fecha y hora	Causa
	Reset LED	ON	25.01.2022 16:57:26.765	Spontaneous Command Issued=Local
00301	Power System fault	11 - OFF	25.01.2022 16:56:56.141	Spontaneous Com.Issued=AutoLocal
	Reset LED	ON	25.01.2022 16:56:52.965	Spontaneous Command Issued=Local
00301	Power System fault	11 - ON	25.01.2022 16:56:44.942	Spontaneous Com.Issued=AutoLocal
00301	Power System fault	10 - OFF	25.01.2022 16:56:26.779	Spontaneous Com.Issued=AutoLocal
00301	Power System fault	10 - ON	25.01.2022 16:56:15.431	Spontaneous Com.Issued=AutoLocal
	Reset LED	ON	25.01.2022 16:56:06.752	Spontaneous Command Issued=Local
00301	Power System fault	9 - OFF	25.01.2022 16:56:01.526	Spontaneous Com.Issued=AutoLocal
00301	Power System fault	9 - ON	25.01.2022 16:55:51.801	Spontaneous Com.Issued=AutoLocal
	Reset LED	ON	25.01.2022 16:54:23.447	Spontaneous Command Issued=Local
00301	Power System fault	8 - OFF	25.01.2022 16:54:13.380	Spontaneous Com.Issued=AutoLocal
00301	Power System fault	8 - ON	25.01.2022 16:54:11.059	Spontaneous Com.Issued=AutoLocal
	Reset LED	ON	25.01.2022 16:53:55.046	Spontaneous Command Issued=Local
00301	Power System fault	7 - OFF	25.01.2022 16:53:29.464	Spontaneous Com.Issued=AutoLocal
00301	Power System fault	7 - ON	25.01.2022 16:53:22.728	Spontaneous Com.Issued=AutoLocal
	Reset LED	ON	25.01.2022 16:53:12.937	Spontaneous Command Issued=Local
00301	Power System fault	6 - OFF	25.01.2022 16:52:51.144	Spontaneous Com.Issued=AutoLocal
00301	Power System fault	6 - ON	25.01.2022 16:52:33.118	Spontaneous Com.Issued=AutoLocal
	Reset LED	ON	25.01.2022 16:52:28.033	Spontaneous Command Issued=Local
00301	Power System fault	5 - OFF	25.01.2022 16:52:24.188	Spontaneous Com.Issued=AutoLocal
00301	Power System fault	5 - ON	25.01.2022 16:51:55.494	Spontaneous Com.Issued=AutoLocal
	Reset LED	ON	25.01.2022 16:51:51.392	Spontaneous Command Issued=Local
00301	Power System fault	4 - OFF	25.01.2022 16:51:12.014	Spontaneous Com.Issued=AutoLocal
00301	Power System fault	4 - ON	25.01.2022 16:50:17.934	Spontaneous Com.Issued=AutoLocal



Event Log - 25/01/2022 14:33:23.280 (SIGNALS\BM000003.SFP)(2)

Event Log - 25/01/2022 14:33:23.280 (SIGNALS\BM000003.SFP)(3)

Número	Aviso	Valor	Fecha y hora	Causa
009.0101.01	Failure EN100 Link Channel 1 (Ch1)	OFF	23.11.2021 11:11:43.248	Spontaneous Com.Issued=AutoLocal
009.0101.01	Failure EN100 Link Channel 1 (Ch1)	ON	23.11.2021 11:06:53.548	Spontaneous Com.Issued=AutoLocal
00068	Clock Synchronization Error	ON	10.11.2021 13:42:33.148	Spontaneous Com.Issued=AutoLocal
00070	Setting calculation is running	OFF	10.11.2021 13:32:57.432	Spontaneous Com.Issued=AutoLocal
00072	Level-2 change	ON	10.11.2021 13:32:57.427	Spontaneous Com.Issued=AutoLocal
00068	Clock Synchronization Error	ON	10.11.2021 13:32:52.148	Spontaneous Com.Issued=AutoLocal
00070	Setting calculation is running	ON	10.11.2021 13:32:42.031	Spontaneous Com.Issued=AutoLocal
	Fault Recording Start	OFF	10.11.2021 13:18:21.148	Spontaneous Com.Issued=AutoLocal
	Fault Recording Start	ON	10.11.2021 13:18:20.975	Control Issued Command Issued=DIGSI
	Fault Recording Start	OFF	10.11.2021 13:18:18.848	Spontaneous Com.Issued=AutoLocal
	Fault Recording Start	ON	10.11.2021 13:18:18.697	Control Issued Command Issued=DIGSI
	Fault Recording Start	OFF	10.11.2021 13:18:16.348	Spontaneous Com.Issued=AutoLocal
	Fault Recording Start	ON	10.11.2021 13:18:16.196	Control Issued Command Issued=DIGSI
009.0100.01	Failure EN100 Modul	OFF	10.11.2021 13:16:45.334	Spontaneous Com.Issued=AutoLocal
00197	Measurement Supervision is switched OFF	ON	10.11.2021 13:16:40.419	Spontaneous Com.Issued=AutoLocal
00068	Clock Synchronization Error	OFF	10.11.2021 13:16:32.001	Spontaneous Com.Issued=AutoLocal
00284	Set Point 37-1 Undercurrent alarm	ON	10.11.2021 13:16:32.378	Spontaneous Com.Issued=AutoLocal
00052	At Least 1 Protection Funct. is Active	ON	10.11.2021 13:16:32.371	Spontaneous
01758	50N/51N is ACTIVE	ON	10.11.2021 13:16:32.371	Spontaneous Com.Issued=AutoLocal
01753	50/51 O/C is ACTIVE	ON	10.11.2021 13:16:32.371	Spontaneous Com.Issued=AutoLocal
00051	Device is Operational and Protecting	ON	10.11.2021 13:16:31.976	Spontaneous Com.Issued=AutoLocal
009.0102.01	Failure EN100 Link Channel 2 (Ch2)	ON	10.11.2021 13:16:31.651	Spontaneous Com.Issued=AutoLocal
00056	Initial Start of Device	ON	10.11.2021 13:16:31.434	Spontaneous Com.Issued=AutoLocal
00055	Reset Device	ON	10.11.2021 13:16:31.434	Spontaneous Com.Issued=AutoLocal
05147	Phase rotation ABC	ON	10.11.2021 13:16:31.451	Spontaneous Com.Issued=AutoLocal
009.0100.01	Failure EN100 Modul	ON	10.11.2021 13:16:31.457	Spontaneous Com.Issued=AutoLocal

Event Log - 25/01/2022 14:33:23.280 (SIGNALS\BM000003.SFP)(4)

## 11.4 Trip Log - 000011 25/01/2022 16:56:44.942 (SIGNALS\FAULT\NS000001.SFP)

Trip Log - 000011 25/01/2022 16:56:44.942 (SIGNALS\FAULT\NS000001.SFP)

Número	Aviso	Valor	Fecha y hora	Causa	Estado
00301	Power System fault	11 - ON	25.01.2022 16:56:44.942		
00302	Fault Event	11 - ON	25.01.2022 16:56:44.942		
00501	Relay PICKUP	ON	0 ms		
01761	50(N)/51(N) O/C PICKUP	ON	0 ms		
01765	50N/51N picked up	ON	0 ms		
01834	50N-1 picked up	ON	1 ms		
01831	50N-2 picked up	ON	7 ms		
01764	50/51 Phase C picked up	ON	17 ms		
01820	51 picked up	ON	17 ms		
00511	Relay GENERAL TRIP command	ON	906 ms		
01791	50(N)/51(N) TRIP	ON	906 ms		
01833	50N-2 TRIP	ON	906 ms		
00533	Primary fault current Ia	0,00 kA	908 ms		
00534	Primary fault current Ib	0,00 kA	908 ms		
00535	Primary fault current Ic	1,06 kA	908 ms		
01836	50N-1 TRIP	ON	1496 ms		
01825	51 TRIP	ON	9348 ms		
01764	50/51 Phase C picked up	OFF	11188 ms		
01820	51 picked up	OFF	11188 ms		
01831	50N-2 picked up	OFF	11188 ms		
01765	50N/51N picked up	OFF	11198 ms		
01834	50N-1 picked up	OFF	11198 ms		
01761	50(N)/51(N) O/C PICKUP	OFF	11198 ms		
00545	Time from Pickup to drop out	11198 ms	11198 ms		
00546	Time from Pickup to TRIP	906 ms	11198 ms		
00301	Power System fault	11 - OFF	25.01.2022 16:56:56.141		

## 11.5 Trip Log - 000010 25/01/2022 16:56:15.431 (SIGNALS\FAULT\NS000002.SFP)

Trip Log - 000010 25/01/2022 16:56:15.431 (SIGNALS\FAULT\NS000002.SFP)

Número	Aviso	Valor	Fecha y hora	Causa	Estado
00301	Power System fault	10 - ON	25.01.2022 16:56:15.431		
00302	Fault Event	10 - ON	25.01.2022 16:56:15.431		
00501	Relay PICKUP	ON	0 ms		
01761	50(N)/51(N) O/C PICKUP	ON	0 ms		
01765	50N/51N picked up	ON	0 ms		
01834	50N-1 picked up	ON	0 ms		
01831	50N-2 picked up	ON	6 ms		
01763	50/51 Phase B picked up	ON	16 ms		
01820	51 picked up	ON	16 ms		
00511	Relay GENERAL TRIP command	ON	897 ms		
01791	50(N)/51(N) TRIP	ON	897 ms		
01833	50N-2 TRIP	ON	897 ms		

Trip Log - 000010 25/01/2022 16:56:15.431 (SIGNALS\FAULT\NS000002.SFP)(2)

Número	Aviso	Valor	Fecha y hora	Causa	Estado
00533	Primary fault current Ia	0,00 kA	897 ms		
00534	Primary fault current Ib	1,12 kA	897 ms		
00535	Primary fault current Ic	0,00 kA	897 ms		
01836	50N-1 TRIP	ON	1497 ms		
01825	51 TRIP	ON	8687 ms		
01763	50/51 Phase B picked up	OFF	11337 ms		
01820	51 picked up	OFF	11337 ms		
01831	50N-2 picked up	OFF	11337 ms		
01765	50N/51N picked up	OFF	11347 ms		
01834	50N-1 picked up	OFF	11347 ms		
01761	50(N)/51(N) O/C PICKUP	OFF	11347 ms		
00545	Time from Pickup to drop out	11348 ms	11348 ms		
00546	Time from Pickup to TRIP	897 ms	11348 ms		
00301	Power System fault	10 - OFF	25.01.2022 16:56:26.779		

11.6 Trip Log - 000009 25/01/2022 16:55:51.801 (SIGNALS\FAULT\NS000003.SFP)

Trip Log - 000009 25/01/2022 16:55:51.801 (SIGNALS\FAULT\NS000003.SFP)

Número	Aviso	Valor	Fecha y hora	Causa	Estado
00301	Power System fault	9 - ON	25.01.2022 16:55:51.801		
00302	Fault Event	9 - ON	25.01.2022 16:55:51.801		
00501	Relay PICKUP	ON	0 ms		
01761	50(N)/51(N) O/C PICKUP	ON	0 ms		
01765	50N/51N picked up	ON	0 ms		
01834	50N-1 picked up	ON	0 ms		
01831	50N-2 picked up	ON	6 ms		
01762	50/51 Phase A picked up	ON	16 ms		
01820	51 picked up	ON	16 ms		
00511	Relay GENERAL TRIP command	ON	897 ms		
01791	50(N)/51(N) TRIP	ON	897 ms		
01833	50N-2 TRIP	ON	897 ms		
00533	Primary fault current Ia	1,19 kA	898 ms		
00534	Primary fault current Ib	0,00 kA	898 ms		
00535	Primary fault current Ic	0,00 kA	898 ms		
01836	50N-1 TRIP	ON	1497 ms		
01825	51 TRIP	ON	8019 ms		
01762	50/51 Phase A picked up	OFF	9715 ms		
01820	51 picked up	OFF	9715 ms		
01831	50N-2 picked up	OFF	9715 ms		
01765	50N/51N picked up	OFF	9724 ms		
01834	50N-1 picked up	OFF	9724 ms		
01761	50(N)/51(N) O/C PICKUP	OFF	9724 ms		
00545	Time from Pickup to drop out	9725 ms	9725 ms		
00546	Time from Pickup to TRIP	897 ms	9725 ms		
00301	Power System fault	9 - OFF	25.01.2022 16:56:01.526		

## 11.7 Trip Log - 000008 25/01/2022 16:54:11.059 (SIGNALS\FAULT\NS000004.SFP)

Trip Log - 000008 25/01/2022 16:54:11.059 (SIGNALS\FAULT\NS000004.SFP)

Número	Aviso	Valor	Fecha y hora	Causa	Estado
00301	Power System fault	8 - ON	25.01.2022 16:54:11.059		
00302	Fault Event	8 - ON	25.01.2022 16:54:11.059		
00501	Relay PICKUP	ON	0 ms		
01761	50(N)/51(N) O/C PICKUP	ON	0 ms		
01765	50N/51N picked up	ON	0 ms		
01834	50N-1 picked up	ON	0 ms		
01831	50N-2 picked up	ON	6 ms		
01762	50/51 Phase A picked up	ON	16 ms		
01820	51 picked up	ON	16 ms		
00511	Relay GENERAL TRIP command	ON	899 ms		
01791	50(N)/51(N) TRIP	ON	899 ms		
01833	50N-2 TRIP	ON	899 ms		
00533	Primary fault current Ia	1,00 kA	899 ms		
00534	Primary fault current Ib	0,00 kA	899 ms		
00535	Primary fault current Ic	0,00 kA	899 ms		
01836	50N-1 TRIP	ON	1499 ms		
01762	50/51 Phase A picked up	OFF	2310 ms		
01820	51 picked up	OFF	2310 ms		
01765	50N/51N picked up	OFF	2320 ms		
01834	50N-1 picked up	OFF	2320 ms		
01761	50(N)/51(N) O/C PICKUP	OFF	2320 ms		
01831	50N-2 picked up	OFF	2320 ms		
00545	Time from Pickup to drop out	2321 ms	2321 ms		
00546	Time from Pickup to TRIP	899 ms	2321 ms		
00301	Power System fault	8 - OFF	25.01.2022 16:54:13.380		

## 11.8 Trip Log - 000007 25/01/2022 16:53:22.728 (SIGNALS\FAULT\NS000005.SFP)

Trip Log - 000007 25/01/2022 16:53:22.728 (SIGNALS\FAULT\NS000005.SFP)

Número	Aviso	Valor	Fecha y hora	Causa	Estado
00301	Power System fault	7 - ON	25.01.2022 16:53:22.728		
00302	Fault Event	7 - ON	25.01.2022 16:53:22.728		
00501	Relay PICKUP	ON	0 ms		
01761	50(N)/51(N) O/C PICKUP	ON	1 ms		
01765	50N/51N picked up	ON	1 ms		
01834	50N-1 picked up	ON	1 ms		
01831	50N-2 picked up	ON	7 ms		
01762	50/51 Phase A picked up	ON	17 ms		
01820	51 picked up	ON	17 ms		
00511	Relay GENERAL TRIP command	ON	900 ms		
01791	50(N)/51(N) TRIP	ON	900 ms		
01833	50N-2 TRIP	ON	900 ms		
00533	Primary fault current Ia	1,35 kA	901 ms		



Trip Log - 000007 25/01/2022 16:53:22.728 (SIGNALS\FAULT\NS000005.SFP)(2)

Número	Aviso	Valor	Fecha y hora	Causa	Estado
00534	Primary fault current Ib	0,00 kA	901 ms		
00535	Primary fault current Ic	0,00 kA	901 ms		
01836	50N-1 TRIP	ON	1500 ms		
01762	50/51 Phase A picked up	OFF	6725 ms		
01820	51 picked up	OFF	6726 ms		
01831	50N-2 picked up	OFF	6726 ms		
01765	50N/51N picked up	OFF	6735 ms		
01834	50N-1 picked up	OFF	6735 ms		
01761	50(N)/51(N) O/C PICKUP	OFF	6735 ms		
00545	Time from Pickup to drop out	6736 ms	6736 ms		
00546	Time from Pickup to TRIP	900 ms	6736 ms		
00301	Power System fault	7 - OFF	25.01.2022 16:53:29.464		

## 11.9 Trip Log - 000006 25/01/2022 16:52:33.118 (SIGNALS\FAULT\NS000006.SFP)

Trip Log - 000006 25/01/2022 16:52:33.118 (SIGNALS\FAULT\NS000006.SFP)

Número	Aviso	Valor	Fecha y hora	Causa	Estado
00301	Power System fault	6 - ON	25.01.2022 16:52:33.118		
00302	Fault Event	6 - ON	25.01.2022 16:52:33.118		
00501	Relay PICKUP	ON	1 ms		
01761	50(N)/51(N) O/C PICKUP	ON	1 ms		
01765	50N/51N picked up	ON	1 ms		
01834	50N-1 picked up	ON	1 ms		
01831	50N-2 picked up	ON	291 ms		
01762	50/51 Phase A picked up	ON	540 ms		
01820	51 picked up	ON	540 ms		
00511	Relay GENERAL TRIP command	ON	1190 ms		
01791	50(N)/51(N) TRIP	ON	1190 ms		
01833	50N-2 TRIP	ON	1190 ms		
00533	Primary fault current Ia	0,68 kA	1190 ms		
00534	Primary fault current Ib	0,00 kA	1190 ms		
00535	Primary fault current Ic	0,00 kA	1190 ms		
01836	50N-1 TRIP	ON	1500 ms		
01825	51 TRIP	ON	17161 ms		
01762	50/51 Phase A picked up	OFF	17979 ms		
01820	51 picked up	OFF	17979 ms		
01831	50N-2 picked up	OFF	17996 ms		
01765	50N/51N picked up	OFF	18025 ms		
01834	50N-1 picked up	OFF	18025 ms		
01761	50(N)/51(N) O/C PICKUP	OFF	18025 ms		
00545	Time from Pickup to drop out	18025 ms	18026 ms		
00546	Time from Pickup to TRIP	1189 ms	18026 ms		
00301	Power System fault	6 - OFF	25.01.2022 16:52:51.144		

## 11.10 Trip Log - 000005 25/01/2022 16:51:55.494 (SIGNALS\FAULT\NS000007.SFP)

Trip Log - 000005 25/01/2022 16:51:55.494 (SIGNALS\FAULT\NS000007.SFP)

Número	Aviso	Valor	Fecha y hora	Causa	Estado
00301	Power System fault	5 - ON	25.01.2022 16:51:55.494		
00302	Fault Event	5 - ON	25.01.2022 16:51:55.494		
00501	Relay PICKUP	ON	0 ms		
01761	50(N)/51(N) O/C PICKUP	ON	0 ms		
01765	50N/51N picked up	ON	0 ms		
01834	50N-1 picked up	ON	0 ms		
01831	50N-2 picked up	ON	16 ms		
00511	Relay GENERAL TRIP command	ON	914 ms		
01791	50(N)/51(N) TRIP	ON	914 ms		
01833	50N-2 TRIP	ON	914 ms		
00533	Primary fault current Ia	0,53 kA	915 ms		
00534	Primary fault current Ib	0,00 kA	915 ms		
00535	Primary fault current Ic	0,00 kA	915 ms		
01836	50N-1 TRIP	ON	1494 ms		
01762	50/51 Phase A picked up	ON	4190 ms		
01820	51 picked up	ON	4190 ms		
01825	51 TRIP	ON	17160 ms		
01762	50/51 Phase A picked up	OFF	28603 ms		
01820	51 picked up	OFF	28603 ms		
01831	50N-2 picked up	OFF	28643 ms		
01765	50N/51N picked up	OFF	28693 ms		
01834	50N-1 picked up	OFF	28693 ms		
01761	50(N)/51(N) O/C PICKUP	OFF	28693 ms		
00545	Time from Pickup to drop out	28693 ms	28693 ms		
00546	Time from Pickup to TRIP	914 ms	28693 ms		
00301	Power System fault	5 - OFF	25.01.2022 16:52:24.188		

## 11.11 Trip Log - 000004 25/01/2022 16:50:17.934 (SIGNALS\FAULT\NS000008.SFP)

Trip Log - 000004 25/01/2022 16:50:17.934 (SIGNALS\FAULT\NS000008.SFP)

Número	Aviso	Valor	Fecha y hora	Causa	Estado
00301	Power System fault	4 - ON	25.01.2022 16:50:17.934		
00302	Fault Event	4 - ON	25.01.2022 16:50:17.934		
00501	Relay PICKUP	ON	0 ms		
01761	50(N)/51(N) O/C PICKUP	ON	0 ms		
01765	50N/51N picked up	ON	0 ms		
01834	50N-1 picked up	ON	1 ms		
00511	Relay GENERAL TRIP command	ON	1494 ms		
01791	50(N)/51(N) TRIP	ON	1494 ms		
01836	50N-1 TRIP	ON	1494 ms		
00533	Primary fault current Ia	0,11 kA	1495 ms		
00534	Primary fault current Ib	0,00 kA	1495 ms		
00535	Primary fault current Ic	0,00 kA	1495 ms		

Trip Log - 000004 25/01/2022 16:50:17.934 (SIGNALS\FAULT\NS000008.SFP)(2)

Número	Aviso	Valor	Fecha y hora	Causa	Estado
01831	50N-2 picked up	ON	16668 ms		
01833	50N-2 TRIP	ON	17564 ms		
01762	50/51 Phase A picked up	ON	25657 ms		
01820	51 picked up	ON	25657 ms		
01762	50/51 Phase A picked up	OFF	39604 ms		
01820	51 picked up	OFF	39604 ms		
01831	50N-2 picked up	OFF	53889 ms		
01765	50N/51N picked up	OFF	54079 ms		
01834	50N-1 picked up	OFF	54079 ms		
01761	50(N)/51(N) O/C PICKUP	OFF	54079 ms		
00545	Time from Pickup to drop out	54079 ms	54079 ms		
00546	Time from Pickup to TRIP	1494 ms	54079 ms		
00301	Power System fault	4 - OFF	25.01.2022 16:51:12.014		

11.12 General Interrogation

sin configurar

11.13 Spontaneous Annunciation

sin configurar

11.14 Statistics - 10/11/2021 10:18:34.154 (MEASURED\STAT0000.SFP)

Statistics - 10/11/2021 10:18:34.154 (MEASURED\STAT0000.SFP)

Número	Valor de medida	Valor
01021	Accumulation of interrupted current Ph A	.....
01022	Accumulation of interrupted current Ph B	.....
01023	Accumulation of interrupted current Ph C	.....
	Number of TRIPs=	0
01020	Counter of operating hours	0 hour
31000	Q0 operationcounter=	0
31001	Q1 operationcounter=	0
31002	Q2 operationcounter=	0
31008	Q8 operationcounter=	0
31009	Q9 operationcounter=	0

11.15 Statistics - 25/01/2022 14:20:32.697 (MEASURED\STAT0001.SFP)

Statistics - 25/01/2022 14:20:32.697 (MEASURED\STAT0001.SFP)

Número	Valor de medida	Valor
01021	Accumulation of interrupted current Ph A	4,86 kA
01022	Accumulation of interrupted current Ph B	1,12 kA
01023	Accumulation of interrupted current Ph C	1,06 kA



Statistics - 25/01/2022 14:20:32.697 (MEASURED\STAT0001.SFP)(2)

Número	Valor de medida	Valor
	Number of TRIPs=	0
01020	Counter of operating hours	0 hour
31000	Q0 operationcounter=	0
31001	Q1 operationcounter=	0
31002	Q2 operationcounter=	0
31008	Q8 operationcounter=	0
31009	Q9 operationcounter=	0

11.16 Statistics - 25/01/2022 14:33:37.844 (MEASURED\STAT0002.SFP)

Statistics - 25/01/2022 14:33:37.844 (MEASURED\STAT0002.SFP)

Número	Valor de medida	Valor
01021	Accumulation of interrupted current Ph A	4,86 kA
01022	Accumulation of interrupted current Ph B	1,12 kA
01023	Accumulation of interrupted current Ph C	1,06 kA
	Number of TRIPs=	0
01020	Counter of operating hours	0 hour
31000	Q0 operationcounter=	0
31001	Q1 operationcounter=	0
31002	Q2 operationcounter=	0
31008	Q8 operationcounter=	0
31009	Q9 operationcounter=	0

11.17 Set Points (Statistic) - 10/11/2021 10:18:34.939 (MEASURED\STGR0000.SFP)

Set Points (Statistic) - 10/11/2021 10:18:34.939 (MEASURED\STGR0000.SFP)

Número	Valor de medida	Valor
	Operating hours greater than	10000 hour

11.18 Set Points (Statistic) - 25/01/2022 14:20:33.473 (MEASURED\STGR0001.SFP)

Set Points (Statistic) - 25/01/2022 14:20:33.473 (MEASURED\STGR0001.SFP)

Número	Valor de medida	Valor
	Operating hours greater than	10000 hour

11.19 Set Points (Statistic) - 25/01/2022 14:33:38.692 (MEASURED\STGR0002.SFP)

Set Points (Statistic) - 25/01/2022 14:33:38.692 (MEASURED\STGR0002.SFP)

Número	Valor de medida	Valor
	Operating hours greater than	10000 hour

12 Measurement

12.1 Operational values, primary - 10/11/2021 10:18:35.877 (MEASURED\MW010000.SFP)

Operational values, primary - 10/11/2021 10:18:35.877 (MEASURED\MW010000.SFP)

Número	Valor de medida	Valor
00601	Ia	0 A
00602	Ib	0 A
00603	Ic	0 A
00604	In	0 A
00831	3lo (zero sequence)	0 A
00605	I1 (positive sequence)	0 A
00606	I2 (negative sequence)	0 A

12.2 Operational values, primary - 25/01/2022 14:20:34.352 (MEASURED\MW010001.SFP)

Operational values, primary - 25/01/2022 14:20:34.352 (MEASURED\MW010001.SFP)

Número	Valor de medida	Valor
00601	Ia	0 A
00602	Ib	0 A
00603	Ic	0 A
00604	In	0 A
00831	3lo (zero sequence)	0 A
00605	I1 (positive sequence)	0 A
00606	I2 (negative sequence)	0 A

12.3 Operational values, primary - 25/01/2022 14:33:39.653 (MEASURED\MW010002.SFP)

Operational values, primary - 25/01/2022 14:33:39.653 (MEASURED\MW010002.SFP)

Número	Valor de medida	Valor
00601	Ia	0 A
00602	Ib	0 A
00603	Ic	0 A
00604	In	0 A
00831	3lo (zero sequence)	0 A
00605	I1 (positive sequence)	0 A
00606	I2 (negative sequence)	0 A

12.4 Operational values, secondary - 10/11/2021 10:18:36.658 (MEASURED\MW020000.SFP)

Operational values, secondary - 10/11/2021 10:18:36.658 (MEASURED\MW020000.SFP)

Número	Valor de medida	Valor
00601	Ia	0,00 A
00602	Ib	0,00 A
00603	Ic	0,00 A



Operational values, secondary - 10/11/2021 10:18:36.658 (MEASURED\MW020000.SFP)(2)

Número	Valor de medida	Valor
00604	In	0,00 A
00831	3lo (zero sequence)	0,00 A
00605	I1 (positive sequence)	0,00 A
00606	I2 (negative sequence)	0,00 A

12.5 Operational values, secondary - 25/01/2022 14:20:35.185 (MEASURED\MW020001.SFP)

Operational values, secondary - 25/01/2022 14:20:35.185 (MEASURED\MW020001.SFP)

Número	Valor de medida	Valor
00601	Ia	0,00 A
00602	Ib	0,00 A
00603	Ic	0,00 A
00604	In	0,00 A
00831	3lo (zero sequence)	0,00 A
00605	I1 (positive sequence)	0,00 A
00606	I2 (negative sequence)	0,00 A

12.6 Operational values, secondary - 25/01/2022 14:33:40.439 (MEASURED\MW020002.SFP)

Operational values, secondary - 25/01/2022 14:33:40.439 (MEASURED\MW020002.SFP)

Número	Valor de medida	Valor
00601	Ia	0,00 A
00602	Ib	0,00 A
00603	Ic	0,00 A
00604	In	0,00 A
00831	3lo (zero sequence)	0,00 A
00605	I1 (positive sequence)	0,00 A
00606	I2 (negative sequence)	0,00 A

12.7 Operational Percent - 10/11/2021 10:18:37.474 (MEASURED\MW030000.SFP)

Operational Percent - 10/11/2021 10:18:37.474 (MEASURED\MW030000.SFP)

Número	Valor de medida	Valor
00601	Ia	0,0 %
00602	Ib	0,0 %
00603	Ic	0,0 %
00604	In	0,0 %
00831	3lo (zero sequence)	0,0 %
00605	I1 (positive sequence)	0,0 %
00606	I2 (negative sequence)	0,0 %

12.8    Operational Percent - 25/01/2022 14:20:36.079 (MEASURED\MW030001.SFP)

Operational Percent - 25/01/2022 14:20:36.079 (MEASURED\MW030001.SFP)

Número	Valor de medida	Valor
00601	Ia	0,0 %
00602	Ib	0,0 %
00603	Ic	0,0 %
00604	In	0,0 %
00831	3lo (zero sequence)	0,0 %
00605	I1 (positive sequence)	0,0 %
00606	I2 (negative sequence)	0,0 %

12.9    Operational Percent - 25/01/2022 14:33:41.274 (MEASURED\MW030002.SFP)

Operational Percent - 25/01/2022 14:33:41.274 (MEASURED\MW030002.SFP)

Número	Valor de medida	Valor
00601	Ia	0,0 %
00602	Ib	0,0 %
00603	Ic	0,0 %
00604	In	0,0 %
00831	3lo (zero sequence)	0,0 %
00605	I1 (positive sequence)	0,0 %
00606	I2 (negative sequence)	0,0 %

12.10    Demand - 10/11/2021 10:18:38.266 (MEASURED\MW060000.SFP)

Demand - 10/11/2021 10:18:38.266 (MEASURED\MW060000.SFP)

Número	Valor de medida	Valor
00963	I A demand	.....
00964	I B demand	.....
00965	I C demand	.....
00833	I1 (positive sequence) Demand	.....

12.11    Demand - 25/01/2022 14:20:36.721 (MEASURED\MW060001.SFP)

Demand - 25/01/2022 14:20:36.721 (MEASURED\MW060001.SFP)

Número	Valor de medida	Valor
00963	I A demand	22 A
00964	I B demand	0 A
00965	I C demand	0 A
00833	I1 (positive sequence) Demand	9 A

12.12 Demand - 25/01/2022 14:33:42.095 (MEASURED\MW060002.SFP)

Demand - 25/01/2022 14:33:42.095 (MEASURED\MW060002.SFP)

Número	Valor de medida	Valor
00963	I A demand	22 A
00964	I B demand	0 A
00965	I C demand	0 A
00833	I1 (positive sequence) Demand	9 A

12.13 V/I,Min/Max - 10/11/2021 10:18:39.058 (MEASURED\MW070000.SFP)

V/I,Min/Max - 10/11/2021 10:18:39.058 (MEASURED\MW070000.SFP)

Número	Valor de medida	Valor	Fecha y hora
00851	Ia Min	0 A	10.11.2021 13:16:31.775
00852	Ia Max	0 A	10.11.2021 13:16:31.775
00853	Ib Min	0 A	10.11.2021 13:16:31.775
00854	Ib Max	0 A	10.11.2021 13:16:31.775
00855	Ic Min	0 A	10.11.2021 13:16:31.775
00856	Ic Max	0 A	10.11.2021 13:16:31.775
00857	I1 (positive sequence) Minimum	0 A	10.11.2021 13:16:31.775
00858	I1 (positive sequence) Maximum	0 A	10.11.2021 13:16:31.775

12.14 V/I,Min/Max - 25/01/2022 14:20:37.531 (MEASURED\MW070001.SFP)

V/I,Min/Max - 25/01/2022 14:20:37.531 (MEASURED\MW070001.SFP)

Número	Valor de medida	Valor	Fecha y hora
00851	Ia Min	0 A	21.01.2022 00:00:00.050
00852	Ia Max	1369 A	25.01.2022 16:53:26.571
00853	Ib Min	0 A	21.01.2022 00:00:00.050
00854	Ib Max	1119 A	25.01.2022 16:56:17.571
00855	Ic Min	0 A	21.01.2022 00:00:00.050
00856	Ic Max	1061 A	25.01.2022 16:56:47.572
00857	I1 (positive sequence) Minimum	0 A	21.01.2022 00:00:00.050
00858	I1 (positive sequence) Maximum	458 A	25.01.2022 16:53:26.571

12.15 V/I,Min/Max - 25/01/2022 14:33:42.866 (MEASURED\MW070002.SFP)

V/I,Min/Max - 25/01/2022 14:33:42.866 (MEASURED\MW070002.SFP)

Número	Valor de medida	Valor	Fecha y hora
00851	Ia Min	0 A	21.01.2022 00:00:00.050
00852	Ia Max	1369 A	25.01.2022 16:53:26.571
00853	Ib Min	0 A	21.01.2022 00:00:00.050
00854	Ib Max	1119 A	25.01.2022 16:56:17.571
00855	Ic Min	0 A	21.01.2022 00:00:00.050
00856	Ic Max	1061 A	25.01.2022 16:56:47.572



V/I,Min/Max - 25/01/2022 14:33:42.866 (MEASURED\MW070002.SFP)(2)

Número	Valor de medida	Valor	Fecha y hora
00857	I1 (positive sequence) Minimum	0 A	21.01.2022 00:00:00.050
00858	I1 (positive sequence) Maximum	458 A	25.01.2022 16:53:26.571

12.16 Min/Max Demand - 10/11/2021 10:18:39.950 (MEASURED\MW090000.SFP)

Min/Max Demand - 10/11/2021 10:18:39.950 (MEASURED\MW090000.SFP)

Número	Valor de medida	Valor	Fecha y hora
00837	I A Demand Minimum	.....	10.11.2021 13:16:32.376
00838	I A Demand Maximum	.....	10.11.2021 13:16:32.376
00839	I B Demand Minimum	.....	10.11.2021 13:16:32.376
00840	I B Demand Maximum	.....	10.11.2021 13:16:32.376
00841	I C Demand Minimum	.....	10.11.2021 13:16:32.376
00842	I C Demand Maximum	.....	10.11.2021 13:16:32.376
00843	I1 (positive sequence) Demand Minimum	.....	10.11.2021 13:16:32.376
00844	I1 (positive sequence) Demand Maximum	.....	10.11.2021 13:16:32.376

12.17 Min/Max Demand - 25/01/2022 14:20:38.824 (MEASURED\MW090001.SFP)

Min/Max Demand - 25/01/2022 14:20:38.824 (MEASURED\MW090001.SFP)

Número	Valor de medida	Valor	Fecha y hora
00837	I A Demand Minimum	0 A	21.01.2022 00:00:00.050
00838	I A Demand Maximum	22 A	25.01.2022 17:00:00.173
00839	I B Demand Minimum	0 A	21.01.2022 00:00:00.050
00840	I B Demand Maximum	0 A	25.01.2022 17:00:00.173
00841	I C Demand Minimum	0 A	21.01.2022 00:00:00.050
00842	I C Demand Maximum	0 A	25.01.2022 17:00:00.173
00843	I1 (positive sequence) Demand Minimum	0 A	21.01.2022 00:00:00.050
00844	I1 (positive sequence) Demand Maximum	9 A	25.01.2022 17:00:00.173

12.18 Min/Max Demand - 25/01/2022 14:33:43.716 (MEASURED\MW090002.SFP)

Min/Max Demand - 25/01/2022 14:33:43.716 (MEASURED\MW090002.SFP)

Número	Valor de medida	Valor	Fecha y hora
00837	I A Demand Minimum	0 A	21.01.2022 00:00:00.050
00838	I A Demand Maximum	22 A	25.01.2022 17:00:00.173
00839	I B Demand Minimum	0 A	21.01.2022 00:00:00.050
00840	I B Demand Maximum	0 A	25.01.2022 17:00:00.173
00841	I C Demand Minimum	0 A	21.01.2022 00:00:00.050
00842	I C Demand Maximum	0 A	25.01.2022 17:00:00.173
00843	I1 (positive sequence) Demand Minimum	0 A	21.01.2022 00:00:00.050
00844	I1 (positive sequence) Demand Maximum	9 A	25.01.2022 17:00:00.173

12.19 User Defined - 10/11/2021 10:18:40.636 (MEASURED\MW110000.SFP)

sin configurar

12.20 User Defined - 25/01/2022 14:20:39.542 (MEASURED\MW110001.SFP)

sin configurar

12.21 User Defined - 25/01/2022 14:33:44.517 (MEASURED\MW110002.SFP)

sin configurar

12.22 Energy - 10/11/2021 10:18:41.445 (MEASURED\MW120000.SFP)

Energy - 10/11/2021 10:18:41.445 (MEASURED\MW120000.SFP)

Número	Valor de medida	Valor
00888	Pulsed Energy Wp (active)	0,0 MWh
00889	Pulsed Energy Wq (reactive)	0,0 MVARh

12.23 Energy - 25/01/2022 14:20:40.232 (MEASURED\MW120001.SFP)

Energy - 25/01/2022 14:20:40.232 (MEASURED\MW120001.SFP)

Número	Valor de medida	Valor
00888	Pulsed Energy Wp (active)	0,0 MWh
00889	Pulsed Energy Wq (reactive)	0,0 MVARh

12.24 Energy - 25/01/2022 14:33:45.345 (MEASURED\MW120002.SFP)

Energy - 25/01/2022 14:33:45.345 (MEASURED\MW120002.SFP)

Número	Valor de medida	Valor
00888	Pulsed Energy Wp (active)	0,0 MWh
00889	Pulsed Energy Wq (reactive)	0,0 MVARh

12.25 Set Points (Measured Values) - 10/11/2021 10:18:42.229 (MEASURED\MW130000.SFP)

Set Points (Measured Values) - 10/11/2021 10:18:42.229 (MEASURED\MW130000.SFP)

Número	Valor de medida	Valor
	37-1 under current	80,0 %
	I A dmd>	120,0 %
	I B dmd>	120,0 %
	I C dmd>	120,0 %
	I1dmd>	120,0 %

12.26 Set Points (Measured Values) - 25/01/2022 14:20:40.982 (MEASURED\MW130001.SFP)

Set Points (Measured Values) - 25/01/2022 14:20:40.982 (MEASURED\MW130001.SFP)

Número	Valor de medida	Valor
	37-1 under current	80,0 %
	I A dmd>	120,0 %
	I B dmd>	120,0 %
	I C dmd>	120,0 %
	I1dmd>	120,0 %

12.27 Set Points (Measured Values) - 25/01/2022 14:33:46.139 (MEASURED\MW130002.SFP)

Set Points (Measured Values) - 25/01/2022 14:33:46.139 (MEASURED\MW130002.SFP)

Número	Valor de medida	Valor
	37-1 under current	80,0 %
	I A dmd>	120,0 %
	I B dmd>	120,0 %
	I C dmd>	120,0 %
	I1dmd>	120,0 %

