

## Estudio para análisis de falla EAF 403/2022

“Falla en línea 2x66 kV Los Molles - Ovalle”

Fecha de Emisión: 22-11-2022

### 1. Descripción pormenorizada de la perturbación

#### a. Fecha y Hora de la falla

Fecha	01/11/2022
Hora	03:33
Consumos desconectados (MW)	3.71
Demanda previa del sistema (MW)	7812.00
Porcentaje de desconexión	0.047 %
Calificación Apagón	No aplica (porcentaje de desconexión < 10%)

#### b. Identificación instalación afectada

Nombre de la instalación	Tramo de línea 2x110 kV Monte Patria - Los Molles / LT014CI1TR02----T002 (circuito N°1) y LT014CI2TR02----T002 (circuito N°2)
Tipo de instalación	Línea
Tensión nominal	66 kV
Segmento	Transmisión dedicada
Propietario instalación afectada	Transec S.A.
RUT	76.555.400-4
Representante Legal	Arturo Le Blanc
Dirección	Orinoco 90, piso 14, Las Condes, Santiago.

#### c. Identificación del elemento fallado

Nombre del elemento afectado	Tramo de línea 2x110 kV Monte Patria - Los Molles / LT014CI1TR02----T002 (circuito N°1) y LT014CI2TR02----T002 (circuito N°2)
Propietario elemento fallado	Transec S.A.
RUT	76.555.400-4
Representante Legal	Arturo Le Blanc
Dirección	Orinoco 90, piso 14, Las Condes, Santiago.

**d. Origen y causa de la falla**

Se produjo la desconexión forzada de la línea 2x66 kV Los Molles - Ovalle, por operación de las protecciones de ambos extremos.

La empresa Transelec S.A. señala que la causa de la falla fue un incendio bajo los conductores, en el tramo de línea entre la S/E Los Molles y la estructura N°15.

**d.2 Fenómeno Físico:**

INC1: Incendio bajo una línea o en proximidades de instalaciones.

La empresa Transelec S.A. remite en su informe de falla de 5 días antecedentes para acreditar el origen de la falla.

**d.3 Reiteración:**

Reiteración Fenómeno Físico en la instalación afectada: Esta instalación no ha sido afectada por un fenómeno físico similar (homologado), durante los últimos 24 meses móviles.

Reiteración Fenómeno Físico en instalaciones del mismo propietario: Se ha producido una falla en instalaciones del mismo propietario con un fenómeno físico similar (homologado), durante los últimos 24 meses móviles, correspondiente al Estudio para Análisis de Falla de la siguiente tabla:

FALLA ID	ACCIONES CORRECTIVAS CP	ACCIONES CORRECTIVAS LP
EAF 327-2021	No se indican.	No se indican.

Cantidad de fallas (sin importar Fenómeno Físico) en la misma instalación: Se han producido tres fallas en la misma instalación afectada, durante los últimos 24 meses móviles, correspondientes a los EAF 283-2022, EAF 284-2022 y EAF 285-2022.

**d.4 Fenómeno eléctrico**

DI21: Distancia (admitancia, impedancia o reactancia).

**e. Detalles de la instalación, equipo o elemento donde se produjo la falla**

De acuerdo con lo señalado por su propietario, las características principales de la línea 2x66 kV Los Molles - Ovalle son:

Línea 2x66 kV Los Molles – Ovalle.		
i. <u>Los Molles- Est 128</u>	ii. <u>Est 128- Est 129</u>	iii. <u>Est 129-Ovalle</u>
Tensión: 66 kV	Tensión: 66 kV	Tensión: 66 kV
Conductor: CU 3/0 AGW, 1 conductor por fase	Conductor: COPPERWELD 3/8, 1 conductor por fase	Conductor: CU 3/0 AGW, 1 conductor por fase
T° de Diseño del Conductor: 50C°	T° de Diseño del Conductor: 125C°	T° de Diseño del Conductor: 50C°
Capacidad de corriente a temperatura de operación: 0,281 kA	Capacidad de corriente a temperatura de operación: 0,25 kA	Capacidad de corriente a temperatura de operación: 0,281 kA
Cable de guardia: N/A	Cable de guardia: N/A	Cable de guardia: N/A
Longitud del conductor: 35,42 [km]	Longitud del conductor: 1[km]	Longitud del conductor: 32,61[km]
PES: 1952	PES: 1952	PES: 1952

Al respecto, la empresa Transelec S.A., propietaria de la instalación fallada, remite antecedentes correspondiente a los mantenimientos realizados a la línea 2x66 kV Los Molles - Ovalle, durante los últimos 24 meses.

**f. Ubicación urbana o rural según DS 327/1997**

CGE S.A. indica ubicación rural para los alimentadores afectados en S/E Monte Patria producto de este evento.

**g. Proposición del propietario respecto del origen de la falla**

Fuerza Mayor.

La empresa Transelec S.A. remite los siguientes antecedentes en respaldo a la proposición del origen de la falla:

- Informe de interrupción de suministro.
- Mantenimientos de los últimos 24 meses.
- Carta enviada a SEC Regional.
- Registro Fotográfico con fecha y hora.

**h. Comuna donde se presenta la falla**

4303: Monte Patria.

**i. Fecha de entrega de la información al Coordinador**

Coordinado	Informe de 48 horas (03-11-2022)	Informe de 5 días (08-11-2022)
Transelec S.A.	01-11-2022	08-11-2022
CGE Transmisión S.A.	01-11-2022	17-11-2022
CGE S.A.	02-11-2022	04-11-2022
Enel Generación Chile S.A.	01-11-2022	09-11-2022

**2. Descripción del equipamiento afectado**

**a. Sistema de Generación**

Central	Unidad	Pérdida de Generación (MW)	H. Desconexión	H. Normalización
Los Molles	1	9.00	03:33	14:45 (05-11-2022)

**Total: 9.00 MW**

- Las horas señaladas corresponden a lo informado por la empresa Enel Generación Chile S.A.

**b. Sistema de Transmisión**

Elemento Afectado	Segmento	Tramo	Hora Desc.	Hora Norm.
Los Molles - Ovalle 66 kV N°1	ST Zonal	Monte Patria - Ovalle 66 kV N°1	03:33	21:04
Los Molles - Ovalle 66 kV N°1	ST Dedicado	Los Molles - Monte Patria 66 kV N°1	03:33	21:05
Los Molles - Ovalle 66 kV N°2	ST Zonal	Monte Patria - Ovalle 66 kV N°2	03:33	04:10
Los Molles - Ovalle 66 kV N°2	ST Dedicado	Los Molles - Monte Patria 66 kV N°2	03:33	04:10

- Las horas indicadas corresponden a lo informado por la empresa Transelec S.A.

### c. Consumos

Sub-Estación	Alimentador/ Paño	Comuna	Pérdida de Consumo (MW)	% consumo pre-falla	Clientes Afectados	H. Desc.	H. Dispon.	H. Norm.
S/E Monte Patria	El Palqui / C1	Monte Patria	0.55	0.007	326	03:33	04:10	04:10
S/E Monte Patria	El Palqui / C1	Ovalle	0.23	0.003	93	03:33	04:10	04:10
S/E Monte Patria	Tulahuén / C2	Monte Patria	0.70	0.009	2018	03:33	04:10	04:10
S/E Monte Patria	San Lorenzo / E1	Monte Patria	1.15	0.015	3028	03:33	04:10	04:10
S/E Monte Patria	Bellavista / E2	Monte Patria	1.07	0.014	3112	03:33	04:10	04:10
S/E Los Molles	Las Mollacas / C3	N/I	0.01	0.000	N/I	03:33	04:10	12:30 (06-11-2022)

**Total: 3.71 MW 0.047 % 8577**

- Los montos de consumos y clientes afectados corresponden a lo informado por las empresas CGE S.A. y Enel Generación Chile S.A.

### 3. Estimación de la energía no suministrada

Sub-Estación	Alimentador/Paño	Empresa	Tipo de Cliente	Pérdida de Consumo (MW)	Tiempo Indispon. (h)	Tiempo Desc. (h)	ENS (MWh)
S/E Monte Patria	El Palqui / C1	CGE	Regulado	0.55	0.62	0.62	0.3
S/E Monte Patria	El Palqui / C1	CGE	Regulado	0.23	0.62	0.62	0.1
S/E Monte Patria	Tulahuén / C2	CGE	Regulado	0.70	0.62	0.62	0.4
S/E Monte Patria	San Lorenzo / E1	CGE	Regulado	1.15	0.62	0.62	0.7
S/E Monte Patria	Bellavista / E2	CGE	Regulado	1.07	0.62	0.62	0.7
S/E Central Los Molles	Las Mollacas / C3	CGE	Regulado	0.01	0.62	128.95	1.3

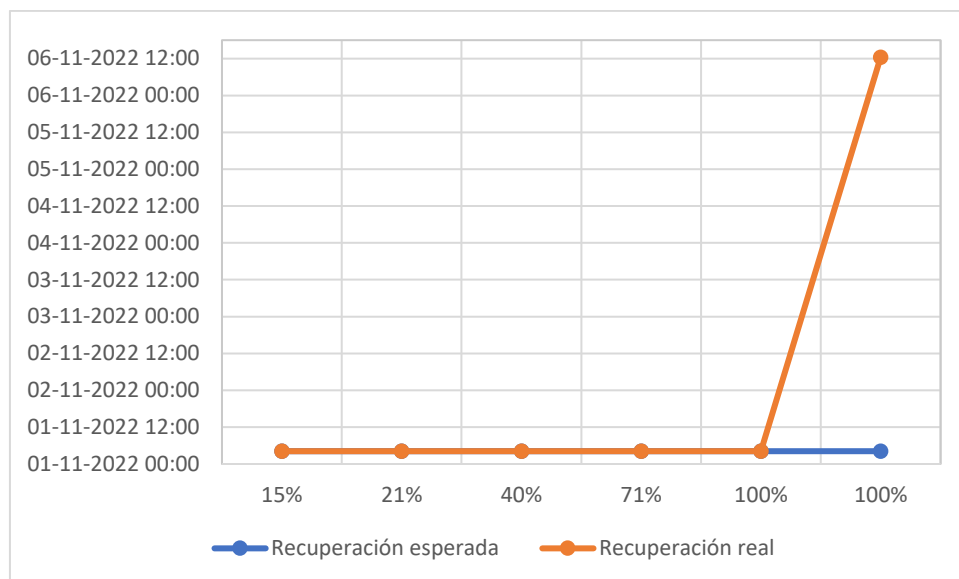
**Clientes Regulados : 3.6 MWh**

**Clientes Libres : 0.0 MWh**

**Total : 3.6 MWh**

- Los montos de consumos y clientes afectados corresponden a lo informado por la empresa CGE S.A.

- Curva de recuperación esperada v/s recuperación real.



No se aprecian diferencias entre los horarios de recuperación real y recuperación esperada de los consumos afectados, con excepción de los consumos del alimentador Las Mollacas de S/E Central Los Molles.

- Velocidad promedio de recuperación.

Rango	Potencia (MW)	Tiempo recuperación (h)	Velocidad de recuperación (MW/h)
Primer 80 %	2.97	0.62	4.79
Último 20 %	0.74	128.95	0.01
100 % Total	3.71	128.95	0.03

#### 4. Descripción de las configuraciones en los momentos previo y posterior a la falla

**Demanda del sistema previo a la falla:** 7812.00 MW

##### Regulación de Frecuencia

Control distribuido de frecuencia en el SEN previo a la falla, mediante las centrales Angostura (U1, U2 y U3), Candelaria (U2), Mejillones (IEM), Pehuenche (U1 y U2), Quintero (U1) y Ralco (U1 y U2).

##### Estado y configuración previo a la falla

Las instalaciones de transmisión se encontraban en servicio normal en los momentos previos a la desconexión forzada, con S/E Monte Patria abastecida desde el circuito N°2 de la línea 2x66 kV Los Molles - Ovalle.

## Otros antecedentes relevantes

### Otros antecedentes presentados por la empresa Transelec S.A.:

*"A las 03:33 horas, se produce la desconexión forzada de ambos circuitos de la línea 2x66kV Los Molles - Ovalle. El circuito 2 de la línea fue el que detectó en primera instancia la falla (cortocircuito bifásico en Los Molles que evolucionó a trifásico en Ovalle). Luego, el circuito 1 de la línea detectó un cortocircuito trifásico (5 segundos después de la detección por parte del circuito 2).*

### Otros antecedentes presentados por la empresa Enel Generación Chile S.A.:

*"Junto con lo anterior, se pierden los consumos correspondientes a la Comunidad Los Laureles, Clientes de CGE, conectados al alimentador Las Mollacas, de la barra 13,2 kV de la Central Los Molles."*

De forma complementaria, se adjuntan los informes de falla de instalaciones ingresados en el sistema del Coordinador Eléctrico Nacional por Transelec S.A., CGE Transmision S.A., CGE S.A. y Enel Generación Chile S.A. (Anexo N°1) y otros antecedentes aportados por estas empresas (Anexo N°2).

En función de los antecedentes presentados a la fecha de emisión del presente EAF, se solicitará la siguiente información:

### CGE S.A.

- Aclaración respecto de las diferencias en los montos de consumos y clientes afectados en el alimentador Tulahuén de S/E Monte Patria, reportados en los distintos documentos remitidos a través de la plataforma NeoMante del Coordinador.
- Detalle de los consumos afectados, número de clientes y comunas afectadas, junto con las maniobras realizadas para la normalización de los consumos que serían de propiedad de CGE S.A. en S/E Central Los Molles (alimentador Las Mollacas), de acuerdo con lo informado por Enel Generación Chile S.A.

## **Acciones preventivas y/o correctivas**

a) La instalación afectada no cuenta con una auditoría, plan de acción u otro tipo de mantenimiento en curso.

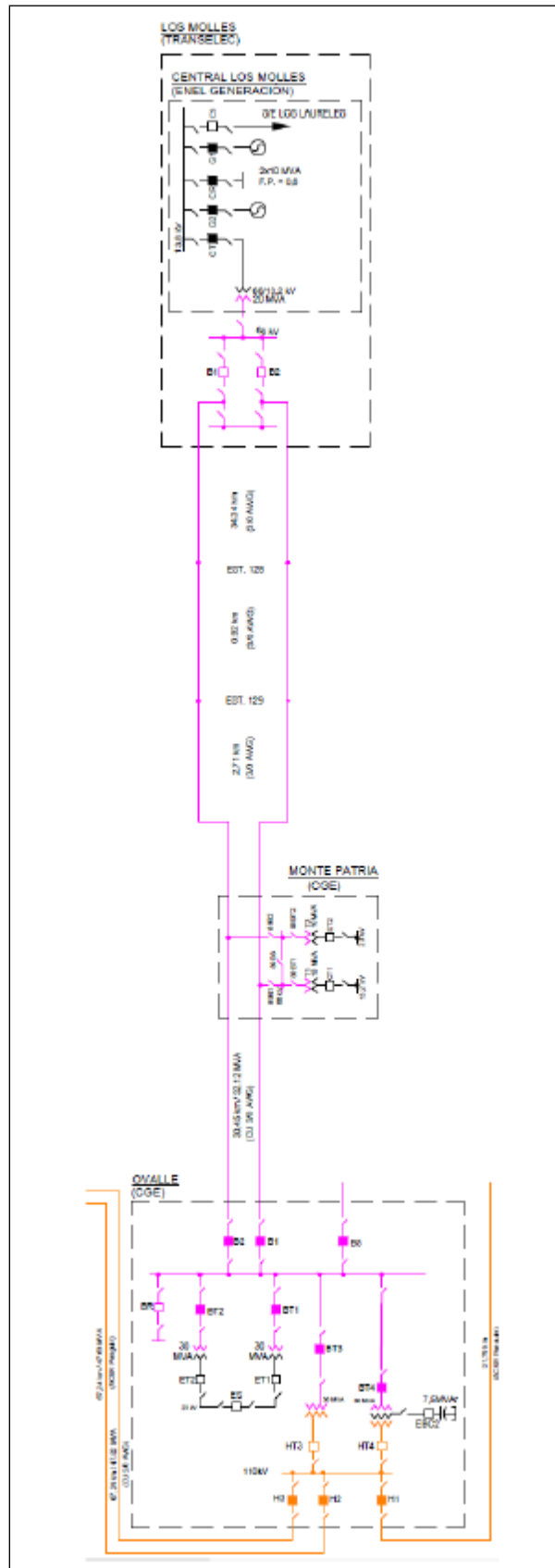
b) Acciones correctivas a corto plazo:

- Las empresas Transelec S.A. y CGE Transmisión S.A. señalan que "no aplica" ejecutar acciones correctivas a corto plazo.
- Enel Generación Chile S.A. indica que "no se contemplan" acciones correctivas a corto plazo.
- CGE S.A. no indica acciones correctivas a corto plazo.

c) Acciones correctivas a largo plazo:

- Las empresas Transelec S.A. y CGE Transmisión S.A. señalan que "no aplica" ejecutar acciones correctivas a corto plazo.
- Enel Generación Chile S.A. indica que "no se contemplan" acciones correctivas a corto plazo.
- CGE S.A. no indica acciones correctivas a corto plazo.

### Diagrama simplificado de las instalaciones previo a la falla



## 5. Cronología de eventos y la descripción de las causas de los eventos

Hora	Involucrado	Evento
03:33	Transelec	Apertura automática del interruptor 52B2 de S/E Los Molles, correspondiente a la línea 66 kV Los Molles - Ovalle N°2, por operación de su protección de distancia de fase en zona 1.
03:33	Transelec	Apertura automática del interruptor 52B2 de S/E Ovalle, correspondiente a la línea 66 kV Los Molles - Ovalle N°2, por operación de su protección de distancia de fase en zona 2.
03:33	Transelec	Apertura automática del interruptor 52B1 de S/E Los Molles, correspondiente a la línea 66 kV Los Molles - Ovalle N°1, por operación de su protección de distancia de fase en zona 1.
03:33	Transelec	Apertura automática del interruptor 52B1 de S/E Ovalle, correspondiente a la línea 66 kV Los Molles - Ovalle N°1, por operación de su protección de distancia de fase en zona 2.
03:33	Enel Generación	Apertura automática del interruptor 52G1 de S/E Central Los Molles, correspondiente a la unidad N°1 de central Los Molles, por operación de su protección de sobrevelocidad.

- Las horas señaladas corresponden a lo informado por las empresas Transelec S.A. y Enel Generación Chile S.A.

## 6. Normalización del servicio

Fecha	Involucrado	Hora	Acción
01/11/2022	Transelec	04:10	Cierre del interruptor 52B2 de S/E Ovalle, correspondiente a la línea 66 kV Los Molles - Ovalle N°2, recuperando los consumos de S/E Monte Patria.
01/11/2022	Transelec	04:10	Cierre del interruptor 52B2 de S/E Los Molles, correspondiente a la línea 66 kV Los Molles - Ovalle N°2.
01/11/2022	Enel Generación	06:20	Enel Generación Chile S.A. informa a Transelec S.A. la existencia de un incendio forestal en las cercanías de S/E Los Molles.
01/11/2022	Transelec	13:45	Transelec S.A. logra constatar que no existen daños en los conductores de la línea 2x66 kV Los Molles - Ovalle.
01/11/2022	Transelec	14:04	Conaf informa a Transelec que el incendio aún no se encuentra controlado.
01/11/2022	Transelec	21:00	Conaf informa a Transelec que el incendio ya se encuentra controlado.
01/11/2022	Transelec	21:04	Cierre del interruptor 52B1 de S/E Ovalle, correspondiente a la línea 66 kV Los Molles - Ovalle N°1.
01/11/2022	Transelec	21:05	Cierre del interruptor 52B1 de S/E Los Molles, correspondiente a la línea 66 kV Los Molles - Ovalle N°1.
05/11/2022	Enel Generación	14:45	Unidad N°1 de central Los Molles en servicio.
05/11/2022	Enel Generación	20:15	Se energiza el alimentador Las Mollacas de S/E Central Los Molles.
06/11/2022	CGE	12:30	Se recuperan los consumos de CGE S.A. asociados al alimentador Las Mollacas de S/E Central Los Molles.

- Las horas y fechas señaladas corresponden a lo informado por las empresas Transelec S.A. y Enel Generación Chile S.A.



## ANEXO N°1

Informes de trabajos y fallas de instalaciones ingresados en el sistema del Coordinador Eléctrico Nacional por las empresas Transelec S.A., CGE Transmisión S.A., CGE S.A. y Enel Generación Chile S.A.

# Resumen - Línea

## Resumen

**Número:**

2022003888

**Solicitante:**

TRANSELEC S.A.

**Empresa:**

TRANSELEC S.A.

**Tipo de Origen:**

Interno

**Línea:**

LOS MOLLES - OVALLE 66KV

**Tramo:**

Tipo: secciones\_tramos - LOS MOLLES - ESTRUCTURA 128 66KV C1

Nombre : LOS MOLLES - ESTRUCTURA 128 66KV C1

Fecha Perturbacion :

Fecha Normaliza :

Protección :

Interruptor :

Consumo :

Comentario :

Tipo: secciones\_tramos - ESTRUCTURA 128 - ESTRUCTURA 129 66KV C1

Nombre : ESTRUCTURA 128 - ESTRUCTURA 129 66KV C1

Fecha Perturbacion :

Fecha Normaliza :

Protección :

Interruptor :

Consumo :

Comentario :

Tipo: secciones\_tramos - ESTRUCTURA 129 - MONTE PATRIA 66KV C1

Nombre : ESTRUCTURA 129 - MONTE PATRIA 66KV C1

Fecha Perturbacion :

Fecha Normaliza :

Protección :

Interruptor :

Consumo :

Comentario :

Tipo: secciones\_tramos - MONTE PATRIA - OVALLE 66KV C1

Nombre : MONTE PATRIA - OVALLE 66KV C1

Fecha Perturbacion :

Fecha Normaliza :

Protección :

Interruptor :

Consumo :  
Comentario :

**Zona Afectada**

**Comuna**

**Tipo Causa**

Causa Presunta  
Causa Principal

**Comentarios Tipo Causa:**

Se investiga.

**Causas**

- Fenómeno Físico:** Origen no determinado.
- Elemento:** Interruptores
- Fenómeno Eléctrico:** Distancia (admitancia, impedancia o reactancia)
- Operación de los interruptores:** Opera según lo esperado

**Comentarios Causas:**

- Fenómeno Físico:**
- Elemento:**
- Fenómeno Eléctrico:**
- Operación de los interruptores:**

**Observaciones:**

- Observaciones:** Desconexión forzada por protecciones.
- Acciones Inmediatas:** Recopilar alarmas operadas e informar al CEN.
- Hechos Sucidos:** A las 3:33 horas opera líneas 66 kv Los Molles Ovalle C1, sin reconexión automática, falla trifásica, según datos de SCADA
- Acciones Correctivas a Corto Plazo:** Solicitud de recorrido de linea por falla trifásica y zona poblada
- Acciones Correctivas a Largo Plazo:** Se investiga

**Afecta SSCC:**

No

**Afecta Medidores:**

No

**Afecta Protecciones:**

No

**Consumo:**

No tiene consumo afectado

**Retorno Automatico:**

**Fecha / Hora Perturbación de la Solicitud:**

01-11-2022 03:33

**Fecha / Hora Estimada Retorno:**

01-11-2022 06:00

**Fecha / Hora Efectiva Retorno:**

01-11-2022 21:05



# Resumen - Línea

## Resumen

**Número:**

2022003889

**Solicitante:**

TRANSELEC S.A.

**Empresa:**

TRANSELEC S.A.

**Tipo de Origen:**

Interno

**Línea:**

LOS MOLLES - OVALLE 66KV

**Tramo:**

Tipo: secciones\_tramos - ESTRUCTURA 128 - ESTRUCTURA 129 66KV C2

Nombre : ESTRUCTURA 128 - ESTRUCTURA 129 66KV C2

Fecha Perturbacion :

Fecha Normaliza :

Protección :

Interruptor :

Consumo :

Comentario :

Tipo: secciones\_tramos - LOS MOLLES - ESTRUCTURA 128 66KV C2

Nombre : LOS MOLLES - ESTRUCTURA 128 66KV C2

Fecha Perturbacion :

Fecha Normaliza :

Protección :

Interruptor :

Consumo :

Comentario :

Tipo: secciones\_tramos - ESTRUCTURA 129 - MONTE PATRIA 66KV C2

Nombre : ESTRUCTURA 129 - MONTE PATRIA 66KV C2

Fecha Perturbacion :

Fecha Normaliza :

Protección :

Interruptor :

Consumo :

Comentario :

Tipo: secciones\_tramos - MONTE PATRIA - OVALLE 66KV C2

Nombre : MONTE PATRIA - OVALLE 66KV C2

Fecha Perturbacion :

Fecha Normaliza :

Protección :

Interruptor :

Consumo :  
Comentario :

**Zona Afectada**

**Comuna**

**Tipo Causa**

Causa Presunta  
Causa Principal

**Comentarios Tipo Causa:**

Se investiga.

**Causas**

- Fenómeno Físico:** Origen no determinado.
- Elemento:** Interruptores
- Fenómeno Eléctrico:** Distancia (admitancia, impedancia o reactancia)
- Operación de los interruptores:** Opera según lo esperado

**Comentarios Causas:**

- Fenómeno Físico:**
- Elemento:**
- Fenómeno Eléctrico:**
- Operación de los interruptores:**

**Observaciones:**

- Observaciones:** Desconexión forzada por protecciones
- Acciones Inmediatas:** Recopilar alarmas operadas e informar al CEN.
- Hechos Sucidos:** A las 3:33 horas opera líneas 66 kv Los Molles Ovalle C2, sin reconexión automática, falla bifásica, según datos de SCADA
- Acciones Correctivas a Corto Plazo:** S/E OVALLE: 04:10 horas, Reconexión Manual de pruebas 52B2 con éxito, previa autorización del CEN y en coordinación con CGE Recorrido de la instalación fallada para buscar causa de falla.
- Acciones Correctivas a Largo Plazo:** Se investiga

**Afecta SSCC:**

No

**Afecta Medidores:**

No

**Afecta Protecciones:**

No

**Consumo:**

Consumo Regulado

**Distribuidoras Afectadas**

COMPAÑÍA GENERAL DE ELECTRICIDAD S.A. / Perd. Estm. de Potencia: 4 / Región : /  
Clientes Afectados:

**Retorno Automatico:**

**Fecha / Hora Perturbación de la Solicitud:**

01-11-2022 03:33

**Fecha / Hora Estimada Retorno:**

01-11-2022 04:10

**Fecha / Hora Efectiva Retorno:**

01-11-2022 04:10

## Resumen - Subestación

### Resumen

**Número:**

2022003887

**Solicitante:**

Cristian Ahumada Gómez

**Empresa:**

CGE TRANSMISIÓN S.A.

**Tipo de Origen:**

Externo

**SubEstación:**

S/E MONTE PATRIA

**Falla Sobre:**

barra

**Elementos**

Tipo: barras - BA S/E MONTE PATRIA 66KV

Nombre : BA S/E MONTE PATRIA 66KV

Fecha Perturbacion : 01-11-2022 03:34

Fecha Normaliza : 01-11-2022 07:00

Protección : .

Interruptor : .

Consumo : 4 MW

Comentario : Pérdida de suministro.

**¿Produce otra indisponibilidad?**

No

**Zona Afectada**

Coquimbo

**Comuna**

Monte Patria

**Tipo Causa**

Causa Presunta

Causa Principal

Se investiga

**Comentarios Tipo Causa:**

Se investiga.

**Causas**

**-Fenómeno Físico:** Origen no determinado.

**-Elemento:** Conductores

**-Fenómeno Eléctrico:** Bajo voltaje

**-Operación de los interruptores:** Varios



**Comentarios Causas:**

- Fenómeno Físico:
- Elemento:
- Fenómeno Eléctrico:
- Operación de los interruptores:

**Observaciones:**

- Observaciones:** Perdida de suministro por falla aguas arriba de instalaciones de CGE Transmisión afectando los consumos de S/E Monte Patria.
- Acciones Inmediatas:** Se tomó contacto con despacho eléctrico de Transelec.
- Hechos Sucuidos:** .
- Acciones Correctivas a Corto Plazo:** .
- Acciones Correctivas a Largo Plazo:** .

**Afecta SCCC:****Afecta Medidores:**

No

**Afecta Protecciones:**

No

**Consumo:**

Consumo Regulado

**Distribuidoras Afectadas**

COMPAÑÍA GENERAL DE ELECTRICIDAD S.A. / Perd. Estm. de Potencia: 4 / Región :  
Coquimbo / Clientes Afectados: 8811

**Retorno Automatico:**

No Tiene Retorno Automático

**Fecha / Hora Perturbación de la Solicitud:**

01-11-2022 03:34

**Fecha / Hora Estimada Retorno:**

01-11-2022 07:00

**Fecha / Hora Efectiva Retorno:**

01-11-2022 04:10

## Resumen - Subestación

### Resumen

**Número:**

2022003898

**Solicitante:**

LEONEL AURELIO LEMUS TORO

**Empresa:**

COMPAÑÍA GENERAL DE ELECTRICIDAD S.A.

**Tipo de Origen:**

Externo

**SubEstación:**

S/E MONTE PATRIA

**Falla Sobre:**

otro

**Elementos**

Tipo: otros - tendido cable

Nombre :

Fecha Perturbacion : 01-11-2022 03:34

Fecha Normaliza : 01-11-2022 04:10

Protección : Se Investiga

Interruptor : .....

Consumo : 4 MW

Comentario : .....

**¿Produce otra indisponibilidad?**

No

**Zona Afectada**

Coquimbo

**Comuna**

Monte Patria

**Tipo Causa**

Causa Presunta

Causa Principal

Se investiga

**Comentarios Tipo Causa:**

Falla en instalaciones aguas arriba de la Distribuidora

**Causas**

**-Fenómeno Físico:** Fallas en instalaciones de terceros u en otro segmento.

**-Elemento:** Conductores

**-Fenómeno Eléctrico:** Sobrecorriente instantánea de fase

**-Operación de los interruptores:** Opera según lo esperado

**Comentarios Causas:**

- Fenómeno Físico: .....
- Elemento: .....
- Fenómeno Eléctrico: .....
- Operación de los interruptores: .....

**Observaciones:**

- Observaciones: .....
- Acciones Inmediatas: .....
- Hechos Sucedidos: .....
- Acciones Correctivas a Corto Plazo: .....
- Acciones Correctivas a Largo Plazo: .....

**Afecta SSCC:**

**Afecta Medidores:**

No

**Afecta Protecciones:**

No

**Consumo:**

Consumo Regulado

**Distribuidoras Afectadas**

CGE DISTRIBUCIÓN S.A. / Perd. Estm. de Potencia: 4 / Región : Coquimbo / Clientes Afectados: 8811

**Retorno Automatico:**

No Tiene Retorno Automático

**Fecha / Hora Perturbación de la Solicitud:**

02-11-2022 16:35

**Fecha / Hora Estimada Retorno:**

02-11-2022 16:45

**Fecha / Hora Efectiva Retorno:**

02-11-2022 16:45

# Resumen - Central Generadora

## Resumen

### Número:

2022003890

### Solicitante:

Ricardo Rodriguez Hermosilla

### Empresa:

ENEL GENERACIÓN CHILE S.A.

### Tipo de Origen:

Externo

### Central:

HP LOS MOLLES

### Potencia:

Desconexión de la unidad(es)

### Unidades:

Nombre: **HP LOS MOLLES U1**  
Potencia: 0 MW  
Fecha Perturbacion: 01-11-2022 03:33  
Fecha Normaliza: 01-11-2022 08:00  
Protección: No hay  
Interruptor: 52G1  
Consumo: No hay  
Comentario: No hay

### Zona Afectada

Coquimbo

### Comuna

Monte Patria

### Tipo Causa

Causa Presunta  
Causa Secundaria  
Se investiga

### Comentarios Tipo Causa:

Unidad 1 F/S con 8 MW. por falla por causa externa, se investiga apertura Línea 66 KV. Los Molles-Ovalle Cto. 1 y 2 por incendio en el sector.

### Causas

**-Fenómeno Físico:** Incendio bajo una línea o en proximidades de instalaciones.  
**-Elemento:** Equipo generador  
**-Fenómeno Eléctrico:** Falla en sistema de control  
**-Operación de los interruptores:** Opera según lo esperado

### Comentarios Causas:

**-Fenómeno Físico:** Salida intempestiva de Unidad 1 .

**-Elemento:** Sin comentarios.

**-Fenómeno Eléctrico:** Sin comentarios.

**-Operación de los interruptores:** Sin comentarios.

**Observaciones:**

**-Observaciones:** Sin comentarios.

**-Acciones Inmediatas:** Verificar alarmas y protecciones operadas.

**-Hechos Sucidos:** Sin comentarios.

**-Acciones Correctivas a Corto Plazo:** Sin comentarios.

**-Acciones Correctivas a Largo Plazo:** Sin comentarios.

**Afecta SSCC:**

**Afecta Medidores:**

No

**Afecta Protecciones:**

No

**Consumo:**

No tiene consumo afectado

**Retorno Automatico:**

No Tiene Retorno Automático

**Estado Operativo:**

FE (Falla Externa)

**Estado Operativo Efectivo:**

DF (Desconexión Forzada)

**Fecha / Hora Perturbación de la Solicitud:**

01-11-2022 03:33

**Fecha / Hora Estimada Retorno:**

01-11-2022 08:00

**Fecha / Hora Efectiva Retorno:**

01-11-2022 04:10

ANEXO N°2

Otros antecedentes aportados por las empresas Transelec S.A., CGE Transmisión S.A., CGE S.A. y Enel Generación Chile S.A.

**Informe de Desconexión Forzada IF 2022003888-2022003889 del día 1 de noviembre de 2022.**  
**Código 2025.**

**1. Características de la desconexión forzada**

El día 1 de noviembre de 2022 a las 03:33 horas, se produjo la desconexión forzada de ambos circuitos de la línea 2x66 kV Los Molles - Ovalle (en adelante la "Línea"), debido a la operación de sus protecciones. Lo anterior, ante un cortocircuito bifásico que evolucionó a trifásico causado por un incendio que se generó bajo la línea, afectando a la instalación entre el marco de la línea en S/E Ovalle hasta la estructura N°15.

**2. Identificación de la instalación fallada.**

- a. Nombre de la instalación donde se produjo la falla:
  - i. Línea 2x66 kV Los Molles - Ovalle (ID 183).
- b. Segmento al cual pertenece el equipo o elemento donde se produjo la falla:
  - i. Sistema de Transmisión Dedicado (Los Molles – Monte Patria) y Transmisión Zonal (Monte Patria- Ovalle).

**3. Instalaciones afectadas directa o indirectamente por la falla indicando horas de desconexión y reposición.**

- a. Las siguientes instalaciones de TRANSELEC fueron afectadas por la desconexión:
  - i. Línea 2x66 kV Los Molles - Ovalle (ID 183).
  - ii. S/E Los Molles (ID 578)
- b. Otras instalaciones afectadas por la desconexión:
  - i. S/E Monte Patria (ID 432), propiedad de CGE.
  - ii. S/E Ovalle (ID 421), propiedad de CGE.
- c. Las instalaciones y zonas afectadas se ubican en las siguientes regiones, provincias y comunas:
  - i. Región de Coquimbo, provincia de Limarí, comuna de Monte Patria y Ovalle (Códigos de comuna 4303 y 4301 respectivamente).

**4. Pérdidas de Generación, indicando monto y horas de desconexión y reposición.**

Transelec no tiene equipos de generación entre sus instalaciones.

**5. Pérdidas de Consumos, indicando el detalle por subestación de los montos, horas de desconexión y reposición.**

Previo a la desconexión y de acuerdo con el informe diario emitido por el Centro de Despacho de Carga del Coordinador Eléctrico Nacional, por el circuito 2 de la línea se alimentaban aproximadamente 4 MW de consumo hacia la S/E Monte Patria desde la S/E Ovalle.

**6. Cronología de eventos, y descripción de las causas directa de cada evento.**

- a. Eventos (actuaciones automáticas o manuales) ocurridos durante la evolución de la falla.

El día 1 de noviembre de 2022 a las 03:33 horas, se produjo la desconexión forzada de ambos circuitos de la línea 2x66 kV Los Molles - Ovalle, debido a la operación de sus protecciones. Lo anterior, ante un cortocircuito bifásico que evolucionó a trifásico causado por un incendio que se generó bajo la línea, afectando a la instalación entre el marco de la línea en S/E Ovalle hasta la estructura N°15.

**b.** Acciones orientadas a la reposición del servicio y normalización de las instalaciones.Martes 01-11-2022

- i. A las 03:33 horas, se produce la desconexión forzada de ambos circuitos de la línea 2x66kV Los Molles - Ovalle. El circuito 2 de la línea fue el que detectó en primera instancia la falla (cortocircuito bifásico en Los Molles que evolucionó a trifásico en Ovalle). Luego, el circuito 1 de la línea detectó un cortocircuito trifásico (5 segundos después de la detección por parte del circuito 2).
- ii. Producto de la desconexión forzada se pierden aproximadamente 4 MW de consumos en la S/E Monte Patria (según informe diario realizado por el Coordinador Eléctrico Nacional).
- iii. Inmediatamente tras ocurrida la desconexión, se inició la recopilación de alarmas y protecciones operadas para el evento.
- iv. A las 03:35 horas, Transelec informó de la falla a CGE, el cual informa que los consumos de la S/E Monte Patria estaban conectados solo desde el circuito 2 de la Línea.
- v. A las 03:47 horas, Transelec realizó un intento de comunicación con operador de la central Los Molles (ENEL), el cual no tuvo éxito.
- vi. A las 03:58 horas, Transelec (en colaboración con CGE) solicitó al Coordinador Eléctrico Nacional autorización para realizar reconexión manual de prueba del circuito 2 de la Línea desde S/E Ovalle.
- vii. A las 04:08 horas, el Coordinador Eléctrico Nacional autorizó la reconexión manual de prueba del circuito 2 de la línea.
- viii. A las 04:10 horas, Transelec (en colaboración con CGE) realizó con éxito la reconexión manual de prueba del interruptor 52B2 desde la S/E Ovalle (circuito 2 de la línea).
- ix. A las 04:10 horas, el circuito 2 de la línea se encontraba normalizado desde ambos extremos (S/E Los Molles y S/E Ovalle). Se normalizan consumos de la S/E Monte Patria.
- x. A las 04:15 horas, CGE informó que la pérdida de 4 MW de consumos afectó un total de 8811 clientes.
- xi. A las 06:20 horas, Enel informó de un incendio forestal cercano a central Los Molles y a un poblado cercano, lo cual se presumiría como la causa de falla.
- xii. A las 13:45 horas, Transelec logró hacer una inspección rápida en el área del incendio, constatando que no existe daño en los conductores.
- xiii. A las 14:04 horas, Transelec tomó contacto con la Corporación Nacional Forestal (CONAF), la cual informó que el incendio aún no se encontraba controlado.
- xiv. A las 14:06 horas, Transelec informó al Coordinador Eléctrico Nacional de la situación en la zona, y se inhabilitaron las reconexiones automáticas de la línea.
- xv. A las 17:32 horas, CONAF informó que aún no se puede controlar el incendio.
- xvi. A las 21:00 horas, CONAF informó que el incendio ya se encuentra controlado. Por lo tanto, el circuito 1 de la línea ya se encontraba en condiciones de efectuar una reconexión manual de prueba.
- xvii. A las 21:03 horas, Transelec recibe autorización del Coordinador Eléctrico Nacional para efectuar una reconexión manual de prueba al circuito 1 de la línea.
- xviii. A las 21:04 horas, Transelec efectuó con éxito la reconexión manual de prueba del circuito 1 de la línea.
- xix. A las 21:05 horas, Transelec informó al Coordinador Eléctrico Nacional la normalización del circuito 1 de la línea en ambos extremos. Se vuelven a habilitar las reconexiones automáticas en ambos circuitos.



**7. Esquemas de protección y control involucrados en la falla.**

**a. Detalle de las protecciones operadas**

Línea 66 kV Los Molles – Ovalle Circuito 1

i. Paño B1, 66 kV, de S/E Los Molles:

Sistema 1: Protección GE D60:

- Función (21), zona 1, falla trifásica.

ii. Paño B1, 66 kV, de S/E Ovalle:

Sistema 2: Protección GE D60:

- Función (21), zona 2, falla trifásica.

Línea 66 kV Los Molles – Ovalle Circuito 2

iii. Paño B2, 66 kV, de S/E Los Molles:

Sistema 1: Protección GE D60:

- Función (21), zona 1, falla bifásica (fases B y C).

iv. Paño B2, 66 kV, de S/E Ovalle:

Sistema 2: Protección GE D60:

- Función (21), zona 2, falla trifásica.

**b. Ajustes y características de las protecciones operadas.**

(En archivos adjuntos).

**c. Registros de la falla.**

(En archivos adjuntos).

En el Anexo 3, se muestran los registros oscilográficos y señales digitales generadas por los sistemas de protecciones.

En el Anexo 4 se muestran los reportes de falla obtenidos de las protecciones operadas en los paños B1 y B2 de la S/E Los Molles y en los paños B1 y B2 de la S/E Ovalle.

**d. Análisis del comportamiento de los dispositivos de protección y control.**

Línea 66 kV Los Molles – Ovalle Circuito 1

Paño B1, 66 kV, S/E Los Molles

- Protección GE D60, Sistema 1: De acuerdo con la oscilografía, señales digitales y registro de eventos generados por este sistema, se observa un cortocircuito trifásico aislado, el cual es detectado hacia adelante por la función de distancia de fase (21) en zona 1. Inmediatamente luego del pick up de la función de distancia de fase (21), se produce el trip de la protección, provocando la apertura del interruptor 52B1 de la S/E Los Molles, operando de acuerdo con sus ajustes.

Paño B1, 66 kV, S/E Ovalle

- Protección GE D60, Sistema 2: De acuerdo con la oscilografía, señales digitales y registro de eventos generados por este sistema, se observa un cortocircuito trifásico aislado, el cual es detectado hacia adelante por la función de distancia de fase (21) en zona 2. Luego del pick up de la función de distancia de fase (21), se produce el trip de la protección a los 499ms, provocando la apertura del interruptor 52B1 de la S/E Ovalle, operando de acuerdo con sus ajustes.

Línea 66 kV Los Molles – Ovalle Circuito 2

Paño B2, 66 kV, S/E Los Molles

- Protección GE D60, Sistema 1: De acuerdo con la oscilografía, señales digitales y registro de eventos generados por este sistema, se observa un cortocircuito bifásico aislado entre las

fases B y C, el cual es detectado hacia adelante por la función de distancia de fase (21) en zona 1. Inmediatamente luego del pick up de la función de distancia de fase (21), se produce el trip de la protección, provocando la apertura del interruptor 52B1 de la S/E Los Molles, operando de acuerdo con sus ajustes. Cabe mencionar, que esta protección es la primera que detectó la falla.

Paño B2, 66 kV, S/E Ovalle

- Protección GE D60, Sistema 2: De acuerdo con la oscilografía, señales digitales y registro de eventos generados por este sistema, se observa un cortocircuito trifásico aislado, el cual es detectado hacia adelante por la función de distancia de fase (21) en zona 2. Luego del pick up de la función de distancia de fase (21), se produce el trip de la protección a los 520ms, provocando la apertura del interruptor 52B1 de la S/E Ovalle, operando de acuerdo con sus ajustes.

**8. Análisis conjunto de:**

a. Causas y consecuencias de la falla

El día 1 de noviembre de 2022 a las 03:33 horas, se produjo la desconexión forzada de ambos circuitos de la línea 2x66 kV Los Molles - Ovalle, debido a la operación de sus protecciones. Lo anterior, ante un cortocircuito bifásico que evolucionó a trifásico causado por un incendio que se generó bajo la línea, afectando a la instalación entre el marco de la línea en S/E Ovalle hasta la estructura N°15.

b. Actuación de los dispositivos de protección y control

De acuerdo con los antecedentes disponibles, durante todo el evento, todas las protecciones operaron correctamente de acuerdo con sus ajustes.

c. Medidas o acciones adoptadas para mitigar los efectos de la falla y para normalización del suministro.

- i. Ver punto 6.b

**9. Reiteración de la falla según código de descripción en los últimos 24 meses**

No hay

**10. Cantidad de fallas de la instalación en los últimos 24 meses.**

Nombre IF	Instalación IF	Fecha de la falla
2022002123	Línea 66 kV Monte Patria - Ovalle C1	09-06-2022
2022002122	Línea 66 kV Monte Patria - Ovalle C1	09-06-2022
2022001306	Línea 66 kV Los Molles – Ovalle C2	14-04-2022
2022001305	Línea 66 kV Los Molles – Ovalle C2	14-04-2022
2022001304	Línea 66 kV Los Molles – Ovalle C1	14-04-2022
2022001030	Línea 66 kV Los Molles – Ovalle C1	20-03-2022
2022000757	Línea 66 kV Los Molles – Ovalle C1	04-03-2022
2022002663	Línea 66 kV Los Molles – Ovalle C1	14-07-2022
2022002664	Línea 66 kV Los Molles – Ovalle C2	14-07-2022
2022002665	Línea 66 kV Los Molles – Ovalle C2	14-07-2022

**11. Detalle de instalación, equipo o elemento donde se produjo la falla:**

- i. Los Molles- Est 128.  
Tensión: 66 kV  
Conductor: CU 3/0 AGW, 1 conductor por fase  
T° de Diseño del Conductor: 50C°  
Capacidad de corriente a temperatura de operación: 0,281 kA  
Cable de guardia: N/A  
Longitud del conductor: 35,42 [km]  
PES: 1952
- ii. Est 128- Est 129  
Tensión: 66 kV  
Conductor: COPPERWELD 3/8, 1 conductor por fase  
T° de Diseño del Conductor: 125C°  
Capacidad de corriente a temperatura de operación: 0,25 kA  
Cable de guardia: N/A  
Longitud del conductor: 1[km]  
PES: 1952
- iii. Est 129-Ovalle  
Tensión: 66 kV  
Conductor: CU 3/0 AGW, 1 conductor por fase  
T° de Diseño del Conductor: 50C°  
Capacidad de corriente a temperatura de operación: 0,281 kA  
Cable de guardia: N/A  
Longitud del conductor: 32,61[km]  
PES: 1952

**12. Proposición del propietario respecto al origen de falla.**

Fuerza Mayor, INC1 - Incendio bajo una línea o en proximidades de instalaciones.

**13. Acciones correctivas de corto y largo plazo en caso de comportamiento erróneo de instalaciones.**

No aplica.

**14. Códigos según DO N° 0815/2014.**

	<b>Código</b>	<b>Descripción</b>
FENOMENO_FISICO_ID	INC1	Incendio bajo una línea o en proximidades de instalaciones.
ELEMENTO_ID	TX2	Conductores
FENOMENO_ELECTRICO_ID	DI21	Distancia de fase.
MODO_ID	13	Opera según lo esperado.

**15. Identificación de la empresa propietaria.**

	<b>Datos de la empresa</b>
Nombre de la empresa propietaria u operadora	Transelec S.A.
Rut	76.555.400-4
Representante Legal	Arturo Le Blanc

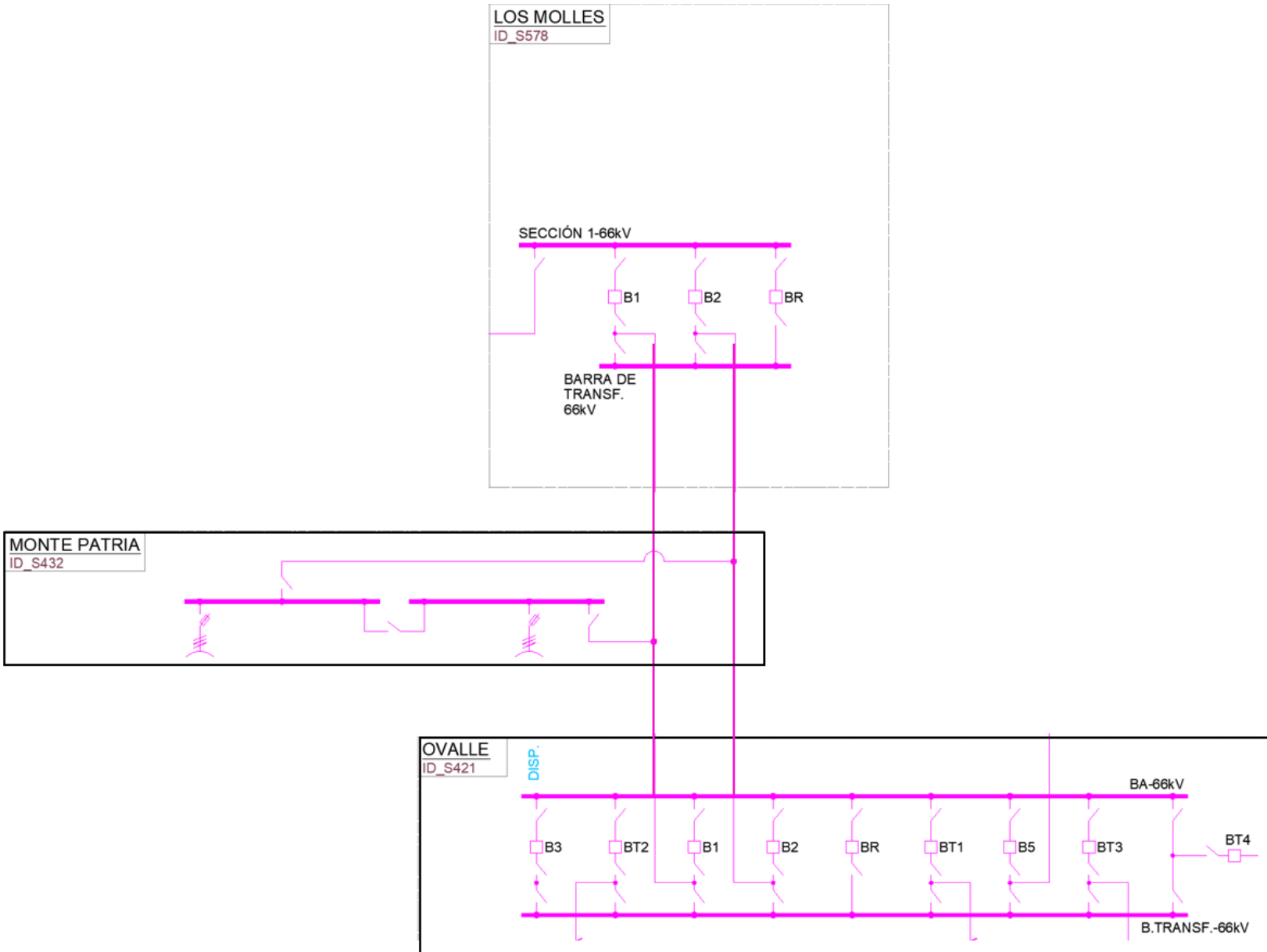
	Datos de la empresa
Dirección	Orinoco 90, piso 14, Las Condes, Santiago

**16. Otros antecedentes que la empresa considere relevantes para el análisis y respaldo de las conclusiones.**

- En el **Anexo 1**, se adjunta el diagrama unilineal de las instalaciones involucradas en la falla.
- En el **Anexo 2**, se adjunta el informe de interrupción de suministro
- En el **Anexo 3**, se adjuntan los registros oscilográficos y señales digitales generadas por los sistemas de protecciones operados en S/E Los Molles y S/E Ovalle.
- En el **Anexo 4**, se adjuntan los reportes de falla obtenidos de las protecciones operadas en el paño B1, B2 de la S/E Los Molles y en el paño B1 y B2 de la S/E Ovalle
- En el **Anexo 5**, se adjunta bitácora de mantenimiento a la línea, incluyendo las podas y roces realizados en los últimos 24 meses de los tramos afectados por el incendio.
- En el **Anexo 6**, se adjunta carta enviada a la Superintendencia de Electricidad y Combustible.
- En el **Anexo 7**, se adjunta registros fotográficos con fecha y hora

**Anexo 1: Diagrama unilineal**

**Figura 1:** Diagrama unilineal de las instalaciones involucradas en la falla.



**Anexo 2: Informe de interrupción de suministro**

**1. Información de la interrupción**

Causa de la interrupción	INC1 Incendio bajo una línea o en proximidades de instalaciones.
Instalación ID	Línea 66 kV Los Molles - Ovalle (ID 183).
Propietario de la instalación equipo donde ocurrió la falla	Transelec S.A.
Rut propietario instalación o equipo	76.555.400-4
Nombre de la instalación asociada	Línea 66 kV Los Molles - Ovalle
Punto de falla n° (corresponde al de infraestructura Gx Tx)	Falla corresponde a un incendio de amplia extensión que se generó bajo la línea, afectando a la instalación entre el marco de la línea en S/E Ovalle hasta la estructura N°15.
Dispositivo operado (id dispositivo de infraestructura Gx Tx)	SP S/E LOS MOLLES B1 (ID 1665) SP S/E LOS MOLLES B2 (ID 1667) SP S/E OVALLE B1-S2 (ID 19400) SP S/E OVALLE B2-S2 (ID 19401)
Comunas afectadas (corresponde al "código único territorial (cut)" determinado por la subsecretaría de desarrollo regional)	Región de Coquimbo, provincia de Limarí, comuna de Monte Patria y Ovalle (Códigos de comuna 4303 y 4301 respectivamente).
Cantidad clientes afectados (es la suma de todos los clientes de los bloques de reposición de la interrupción)	8811 clientes afectados
Fecha y hora inicio interrupción dd/mm/aaaa hh/mm/ss]	El día 1 de noviembre de 2022 a las 03:33 horas, se produjo la desconexión forzada de ambos circuitos de la línea 66 kV Los Molles - Ovalle, debido a la operación de sus protecciones.
Fecha y hora término interrupción corresponderá al horario de la última reposición por bloque) dd/mm/aaaa hh/mm/ss)	El día 01/11/2022 a las 04:10 horas se recuperaron los consumos correspondientes a la S/E Monte Patria

## 2. Descripción de la interrupción

### 2.1. Descripción de los hechos y de las circunstancias

El día 1 de noviembre de 2022 a las 03:33 horas, se produjo la desconexión forzada de ambos circuitos de la línea 2x66 kV Los Molles - Ovalle, debido a la operación de sus protecciones. Lo anterior, ante un cortocircuito bifásico que evolucionó a trifásico causado por un incendio que se generó bajo la línea, afectando a la instalación entre el marco de la línea en S/E Ovalle hasta la estructura N°15.

### 2.2. Elementos mínimos requeridos que acreditan imprevisibilidad (según R.Ex. N° 15704/2016)

De acuerdo a lo indicado en la legislación vigente, el requisito imprevisibilidad implica que mi representada no posee la capacidad técnica o fáctica de prever la ocurrencia del evento. En particular, el evento que dio origen a la perturbación Sistémica correspondió a una falla producto de un incendio bajo una línea o en proximidades de instalaciones. Al respecto, Transelec no puede hacerse cargo, ni prever técnica ni fácticamente este tipo de eventos con consecuencias en las instalaciones propias.

### 2.3. Elementos mínimos requeridos que acreditan irresistibilidad (según R.Ex. n° 15704/2016)

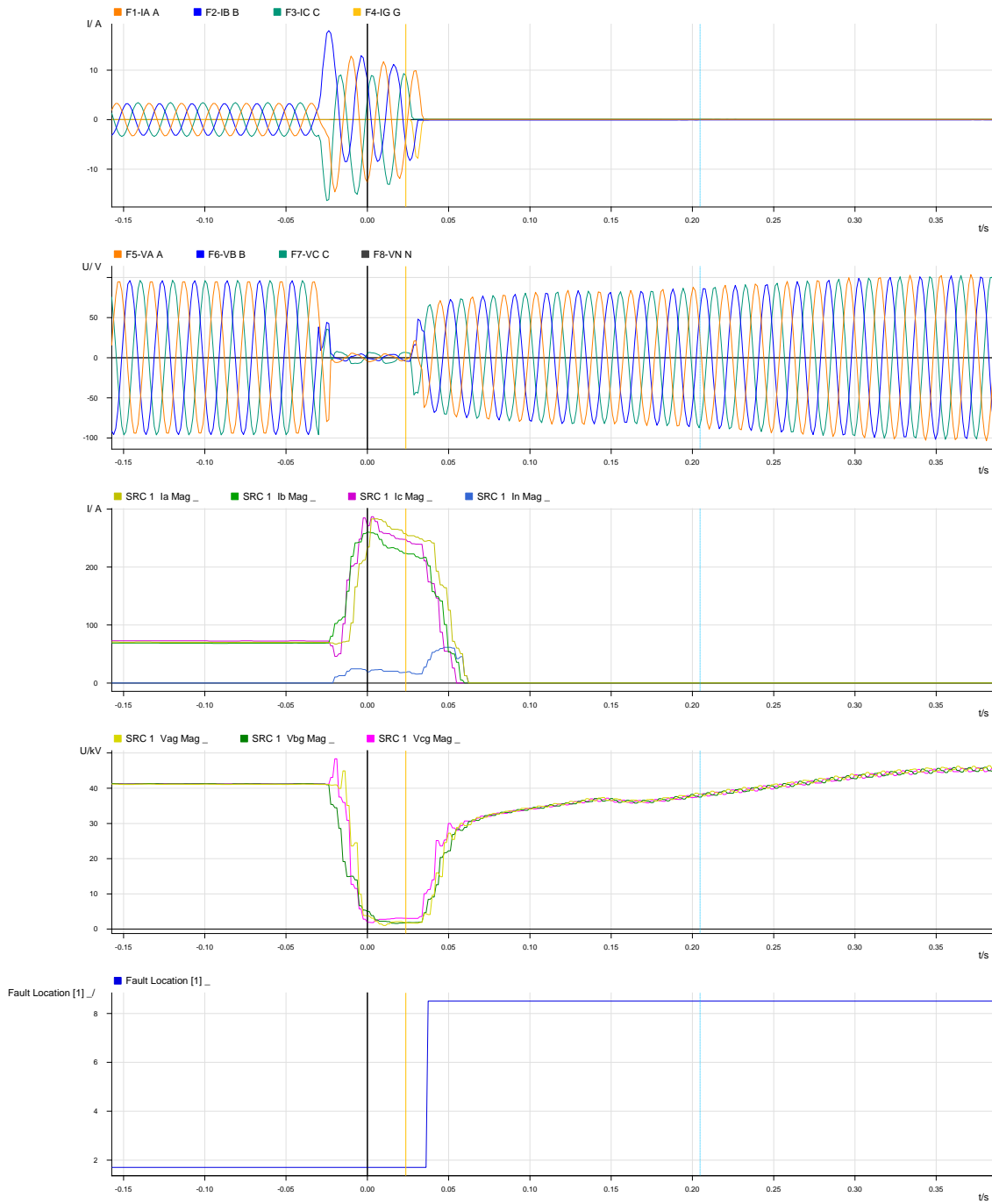
En cuanto a la irresistibilidad de hecho, como aquella circunstancia que no se ha podido evitar su acaecimiento y/o sus consecuencias, es del caso indicar que la desconexión de Transelec se debió a un cortocircuito bifásico / trifásico producto de un incendio en el sector Los Laureles, en donde la ocurrencia de la falla y las consecuencias posteriores eran irresistibles para mi representada al no existir opciones dentro de la esfera de control de Transelec para poder evitar dicha falla.

### 2.4. Elementos mínimos requeridos que acreditan exterioridad (según R.Ex. n° 15704/2016)

Finalmente, la causa de la falla se debió a un hecho ajeno, donde no existe control alguno por parte de Transelec respecto de aquellas instalaciones, y sin haber contribuido de forma alguna en la ocurrencia de dicha falla. En consecuencia, la desconexión de Transelec se debe en un 100% a un acto de fuerza mayor.

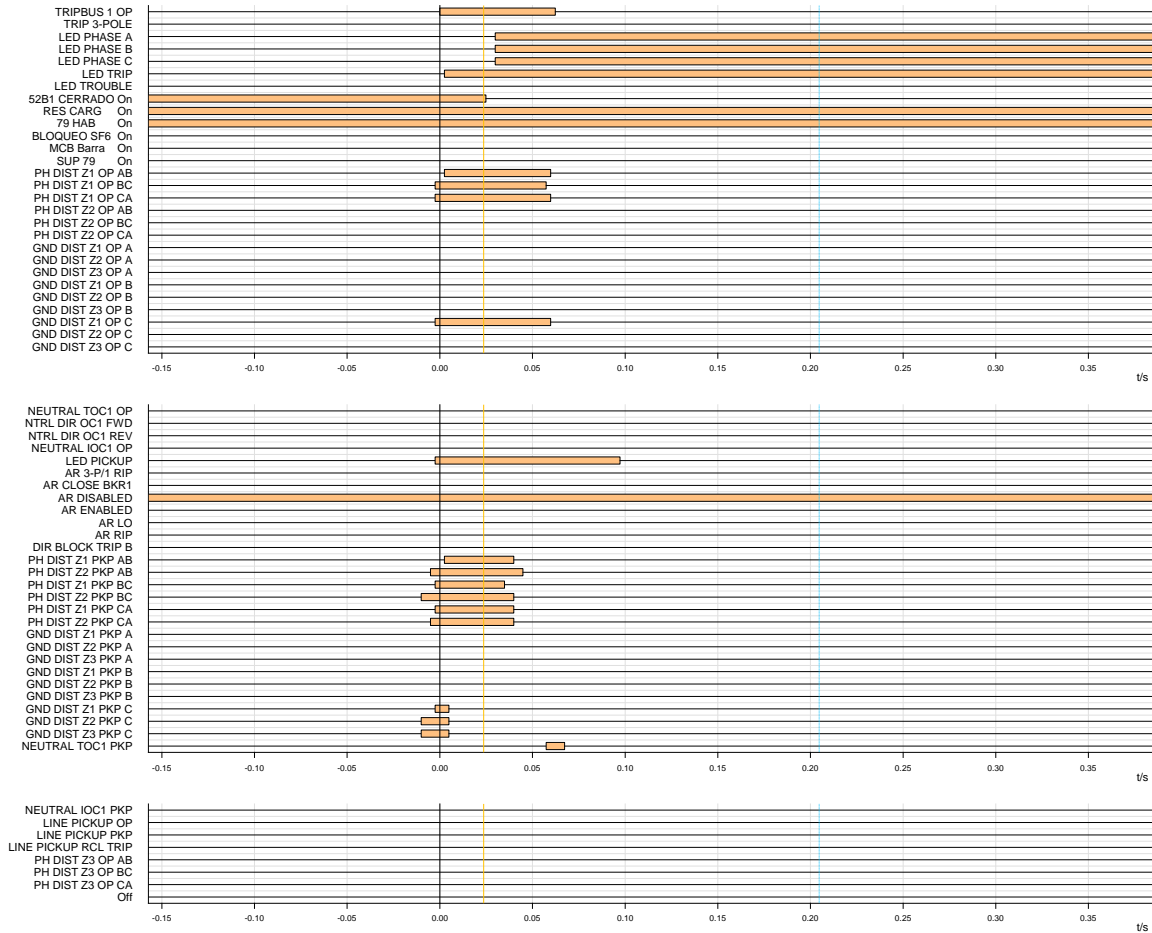
**Anexo 3: Registros oscilográficos y señales digitales recopiladas de las protecciones**

**Figura 2.** Registro oscilográfico capturado por la protección del paño B1 en la S/E Los Molles

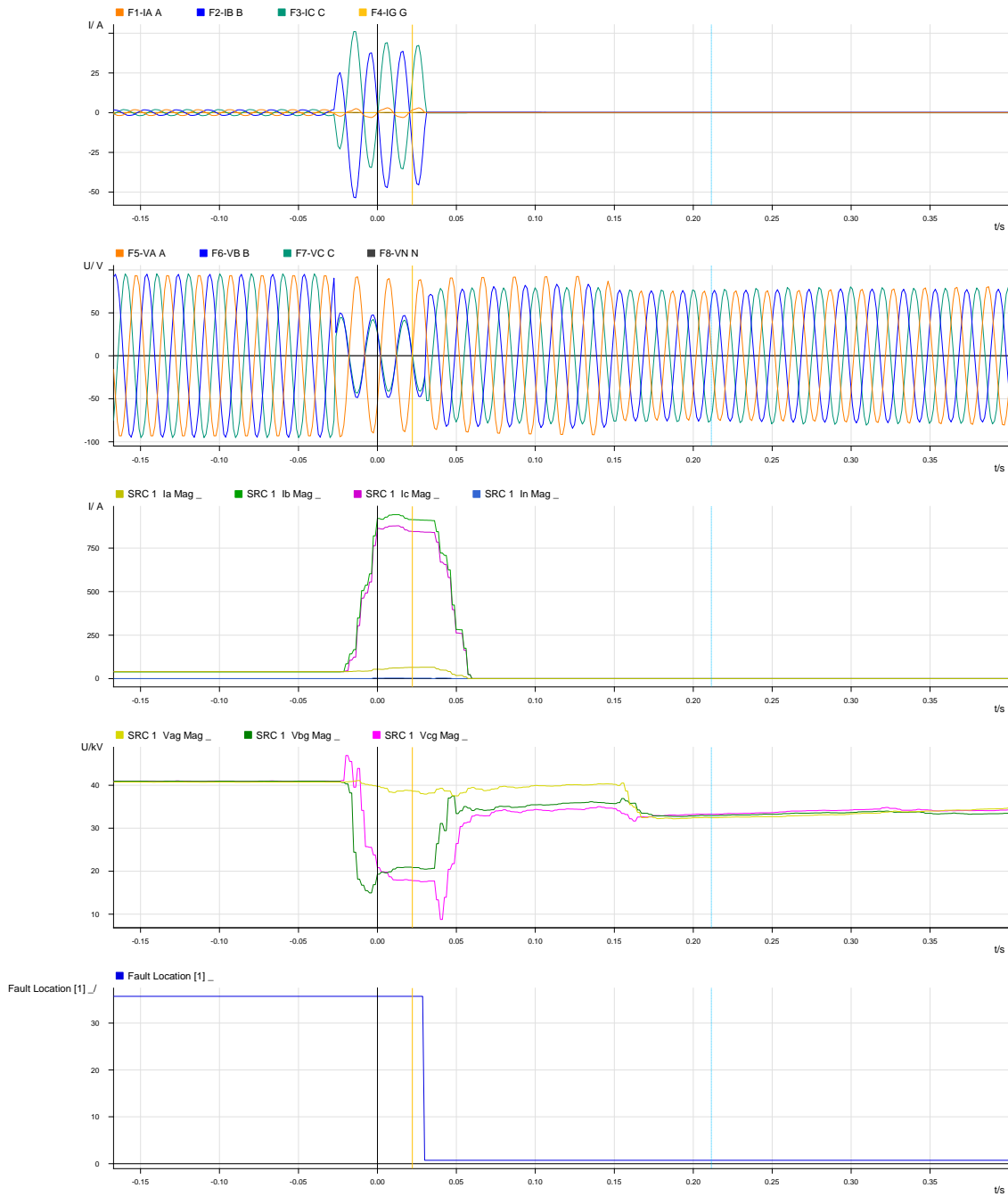




**Figura 3.** Registro de señales digitales capturado por la protección del paño B1 en la S/E Los Molles



**Figura 4.** Registro oscilográfico capturado por la protección del paño B2 en la S/E Los Molles



**Figura 5.** Registro de señales digitales capturado por la protección del paño B2 en la S/E Los Molles

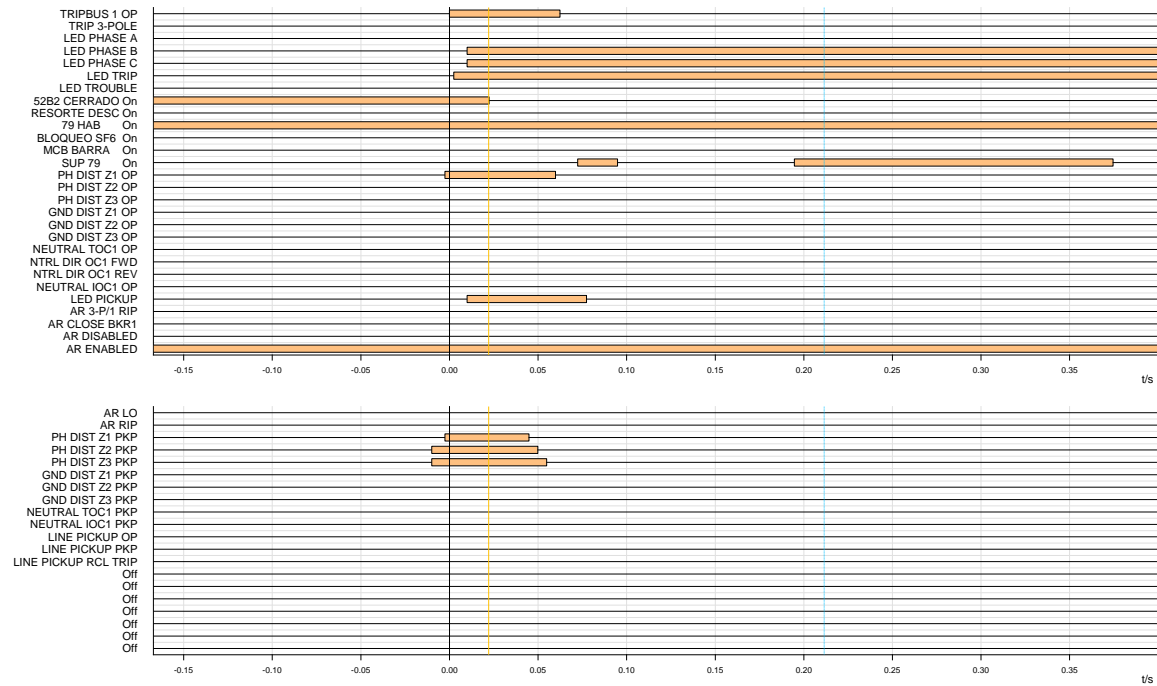
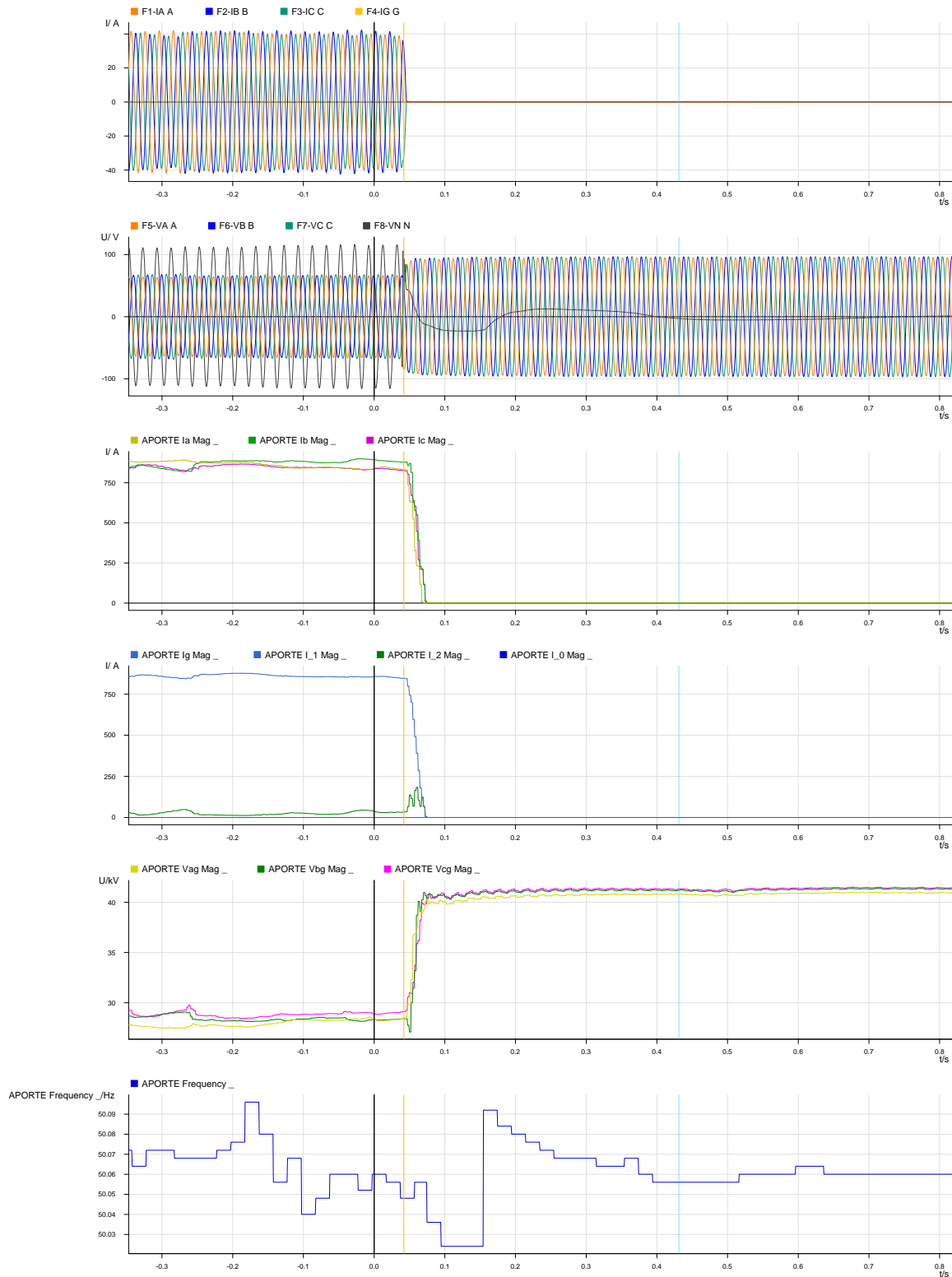
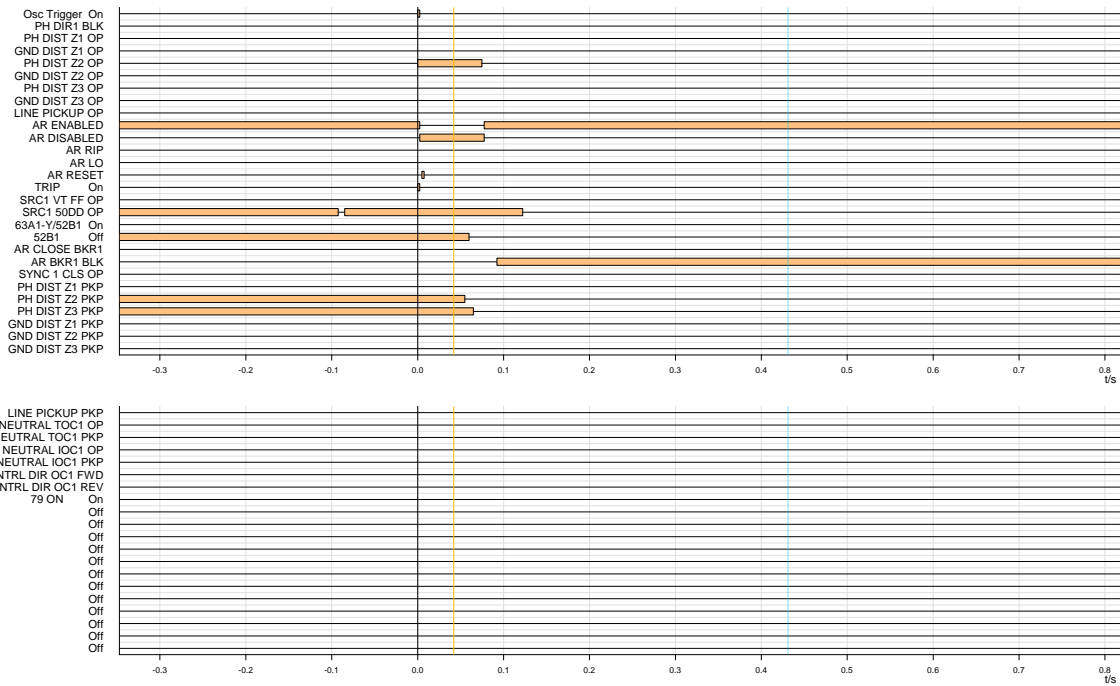


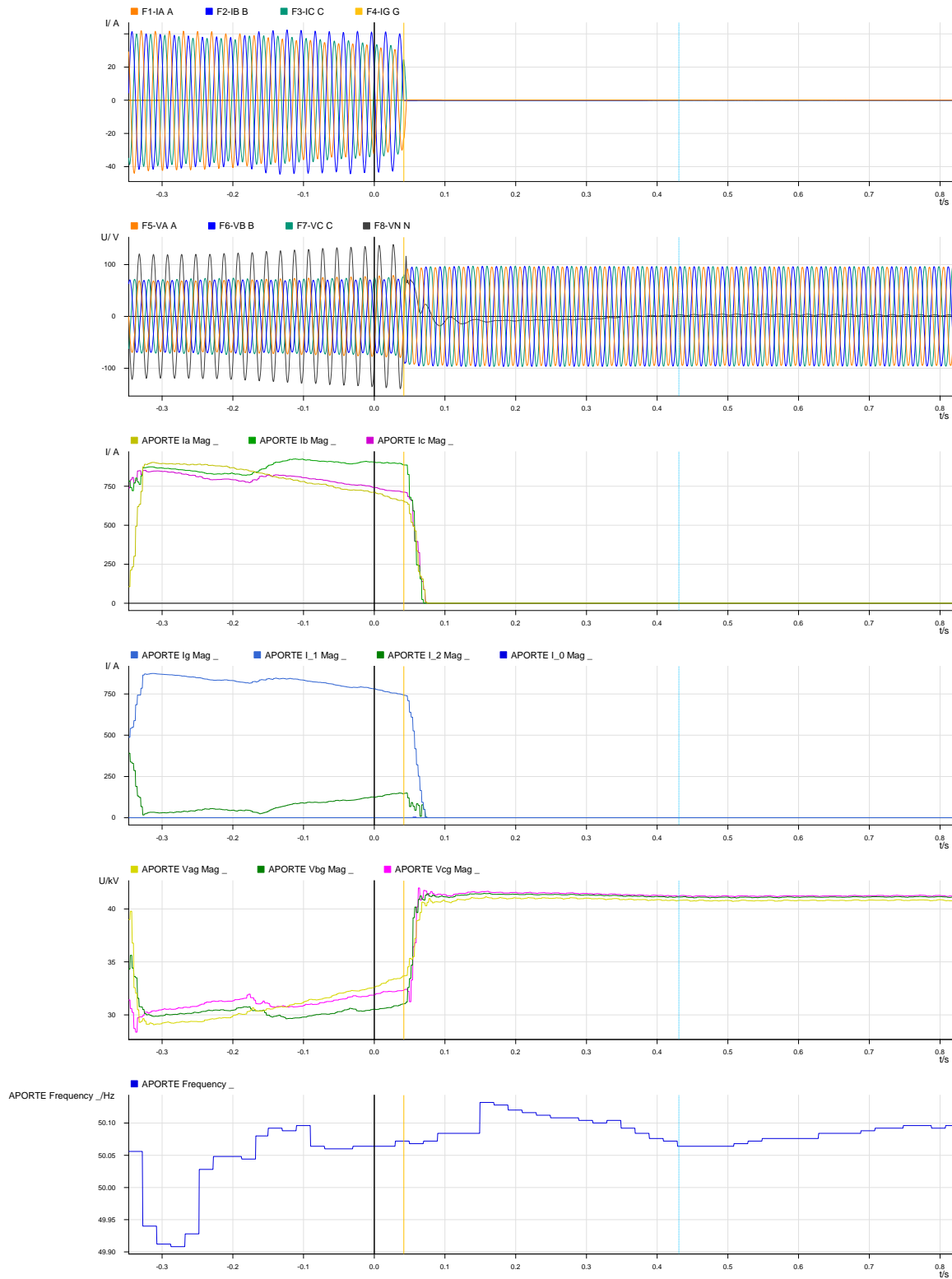
Figura 6. Registro oscilográfico capturado por la protección del paño B1 en la S/E Ovalle



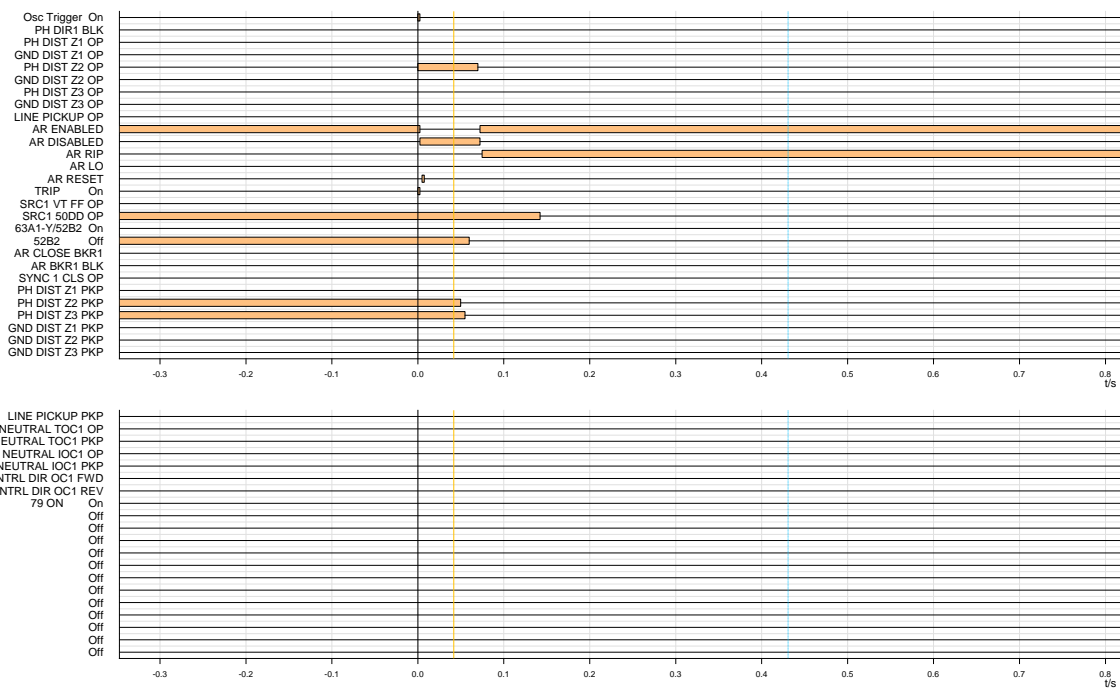
**Figura 7.** Registro de señales digitales capturado por la protección del paño B1 en la S/E Ovalle



**Figura 8.** Registro oscilográfico capturado por la protección del paño B2 en la S/E Ovalle

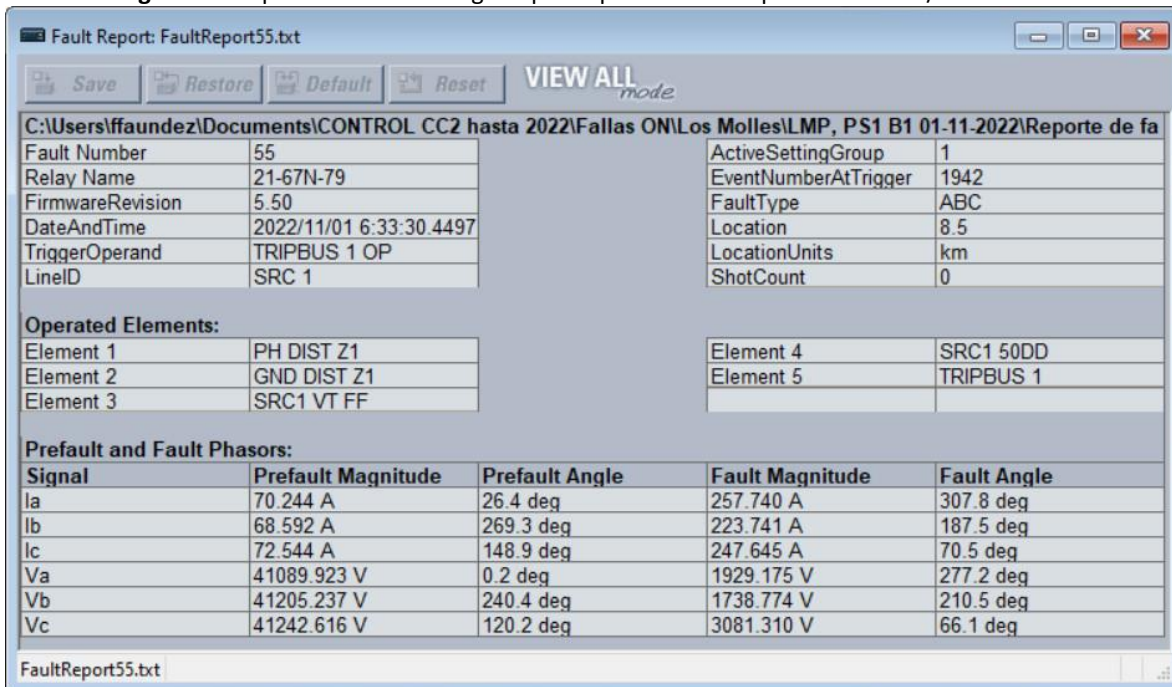


**Figura 9.** Registro de señales digitales capturado por la protección del paño B2 en la S/E Ovalle



**Anexo 4: Reportes de falla obtenidos de las protecciones**

**Figura 10.** Reporte de falla entregado por la protección del paño B1 en la S/E Los Molles



Save Restore Default Reset VIEW ALL mode

C:\Users\ffaundez\Documents\CONTROL CC2 hasta 2022\Fallas ON\Los Molles\LMP, PS1 B1 01-11-2022\Reporte de fa

Fault Number	55	ActiveSettingGroup	1
Relay Name	21-67N-79	EventNumberAtTrigger	1942
FirmwareRevision	5.50	FaultType	ABC
DateAndTime	2022/11/01 6:33:30.4497	Location	8.5
TriggerOperand	TRIPBUS 1 OP	LocationUnits	km
LineID	SRC 1	ShotCount	0

**Operated Elements:**

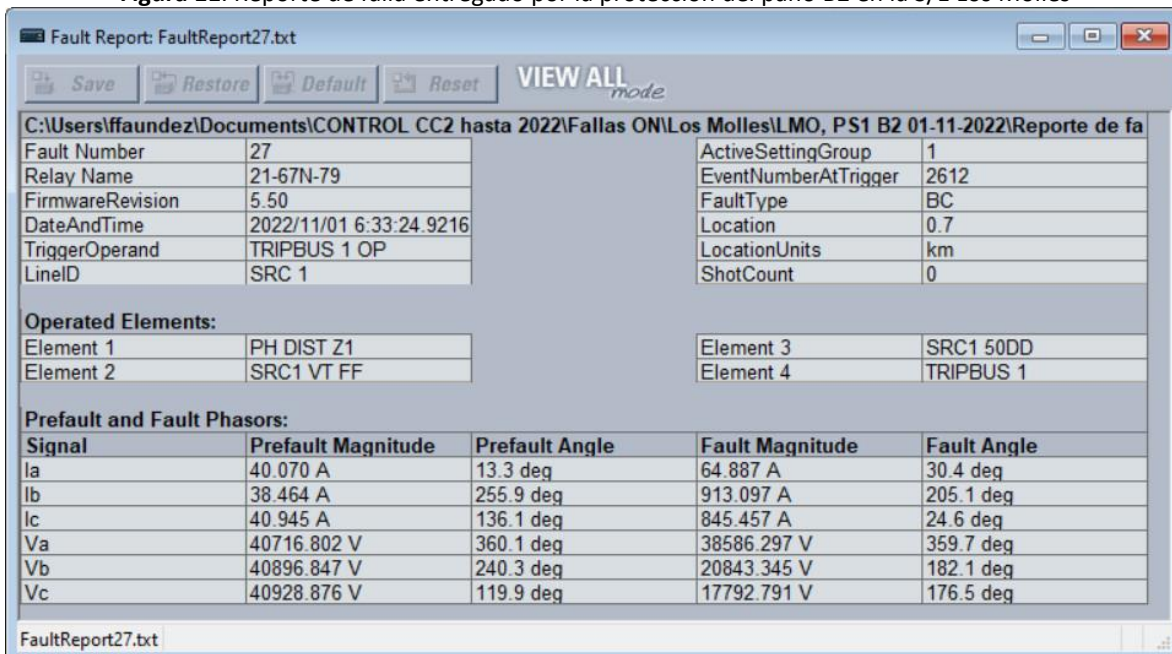
Element 1	PH DIST Z1	Element 4	SRC1 50DD
Element 2	GND DIST Z1	Element 5	TRIPBUS 1
Element 3	SRC1 VT FF		

**Prefault and Fault Phasors:**

Signal	Prefault Magnitude	Prefault Angle	Fault Magnitude	Fault Angle
Ia	70.244 A	26.4 deg	257.740 A	307.8 deg
Ib	68.592 A	269.3 deg	223.741 A	187.5 deg
Ic	72.544 A	148.9 deg	247.645 A	70.5 deg
Va	41089.923 V	0.2 deg	1929.175 V	277.2 deg
Vb	41205.237 V	240.4 deg	1738.774 V	210.5 deg
Vc	41242.616 V	120.2 deg	3081.310 V	66.1 deg

FaultReport55.txt

**Figura 11.** Reporte de falla entregado por la protección del paño B2 en la S/E Los Molles



Save Restore Default Reset VIEW ALL mode

C:\Users\ffaundez\Documents\CONTROL CC2 hasta 2022\Fallas ON\Los Molles\LMO, PS1 B2 01-11-2022\Reporte de fa

Fault Number	27	ActiveSettingGroup	1
Relay Name	21-67N-79	EventNumberAtTrigger	2612
FirmwareRevision	5.50	FaultType	BC
DateAndTime	2022/11/01 6:33:24.9216	Location	0.7
TriggerOperand	TRIPBUS 1 OP	LocationUnits	km
LineID	SRC 1	ShotCount	0

**Operated Elements:**

Element 1	PH DIST Z1	Element 3	SRC1 50DD
Element 2	SRC1 VT FF	Element 4	TRIPBUS 1

**Prefault and Fault Phasors:**

Signal	Prefault Magnitude	Prefault Angle	Fault Magnitude	Fault Angle
Ia	40.070 A	13.3 deg	64.887 A	30.4 deg
Ib	38.464 A	255.9 deg	913.097 A	205.1 deg
Ic	40.945 A	136.1 deg	845.457 A	24.6 deg
Va	40716.802 V	360.1 deg	38586.297 V	359.7 deg
Vb	40896.847 V	240.3 deg	20843.345 V	182.1 deg
Vc	40928.876 V	119.9 deg	17792.791 V	176.5 deg

FaultReport27.txt




**Figura 12.** Reporte de falla entregado por la protección del paño B1 en la S/E Ovalle

VIEW ALL <small>mode</small>				
<div style="display: flex; justify-content: space-between;"> <span>Save</span> <span>Restore</span> <span>Default</span> <span>Reset</span> </div>				
<b>Fault Report Data:</b>				
Fault Number	11		ActiveSettingGroup	1
Relay Name	LINEA SUR		EventNumberAtTrigger	4814
FirmwareRevision	5.50		FaultType	ABC
DateAndTime	2022/11/01 6:33:28.071		Location	65.7
TriggerOperand	TRIP On		LocationUnits	km
LineID	APORTE		ShotCount	0
<b>Operated Elements:</b>				
Element 1	PH DIST Z2		Element 3	SRC1 50DD
Element 2	SRC1 VT FF		Element 4	TRIPBUS 1
<b>Prefault and Fault Phasors:</b>				
Signal	Prefault Magnitude	Prefault Angle	Fault Magnitude	Fault Angle
Ia	62.227 A	198.4 deg	842.195 A	302.1 deg
Ib	60.475 A	81.5 deg	885.039 A	179.4 deg
Ic	64.052 A	321.4 deg	832.975 A	58.3 deg
Va	40732.338 V	359.8 deg	28279.494 V	355.9 deg
Vb	41024.849 V	239.8 deg	28337.745 V	236.7 deg
Vc	41191.017 V	119.5 deg	28988.671 V	116.2 deg

**Figura 13.** Reporte de falla entregado por la protección del paño B2 en la S/E Ovalle

VIEW ALL <small>mode</small>				
<div style="display: flex; justify-content: space-between;"> <span>Save</span> <span>Restore</span> <span>Default</span> <span>Reset</span> </div>				
<b>Fault Report Data:</b>				
Fault Number	8		ActiveSettingGroup	1
Relay Name	LINEA NORTE		EventNumberAtTrigger	5146
FirmwareRevision	5.50		FaultType	ABC
DateAndTime	2022/11/01 6:33:24.921		Location	53.6
TriggerOperand	TRIP On		LocationUnits	km
LineID	APORTE		ShotCount	0
<b>Operated Elements:</b>				
Element 1	PH DIST Z2		Element 3	SRC1 50DD
Element 2	SRC1 VT FF		Element 4	TRIPBUS 1
<b>Prefault and Fault Phasors:</b>				
Signal	Prefault Magnitude	Prefault Angle	Fault Magnitude	Fault Angle
Ia	13.856 A	245.2 deg	672.688 A	326.5 deg
Ib	14.073 A	130.0 deg	896.995 A	198.9 deg
Ic	15.024 A	7.5 deg	722.009 A	66.4 deg
Va	40411.302 V	0.0 deg	33288.435 V	0.2 deg
Vb	40754.024 V	240.0 deg	30674.588 V	239.8 deg
Vc	40847.136 V	119.6 deg	32205.337 V	124.2 deg

**Anexo 5: Bitácora de mantenimiento**

BITÁCORA DE MANTENIMIENTO LÍNEAS							
GERENCIA ZONAL:	NORTE		LÍNEA:	L 66 kV Los Molles - Ovalle 1			
NÚMERO DE MANTENIMIENTO	FECHA MANTENIMIENTO (mm/aaaa)	EMPRESA CONTRATISTA	ORDEN DE COMPRA	ORDEN DE MANTENIMIENTO	TIPO MANTENIMIENTO	SECUENCIA ESTRUCTURAS	NOMBRE MANTENIMIENTO (OPERACIÓN)
6806/2020	08/2020	PROPIO	PROPIO	8226806	PREVENTIVO	24 41 43 76 123 128 129 140 141 150 168 172	TERMOGRAFÍA
064/2020	07/2020	COBRA	4700055953	8197981	LAVADO	138 a 187	LAVADO DE AISLACIÓN
185/2020	07/2020	COBRA	4700055954	8227608	LAVADO	001 a 137	LAVADO DE AISLACIÓN
214/2020	09/2020	COBRA	4700057539	8217192	PREVENTIVO	001 a 245	INSPECCIÓN VISUAL PEDESTRE
237/2020	12/2020	COBRA	4700058484	8218699	LAVADO	197 a 223 y 225 a 245	LAVADO DE AISLACIÓN
125/2020	07/2020	COBRA	4700058262	5076367	CORRECTIVO	009 a 180	CORTE DE ÁRBOLES
115/2021	06/2021	COBRA	4700060622	8226604	PREVENTIVO	89 98 110 120 156 166 173 182	VERIFICACIÓN MEDIDAS PUESTA A TIERRA
122/2021	06/2021	COBRA	4700060632	8218700	LAVADO	197 a 223 y 225 a 245	LAVADO DE AISLACIÓN
125/2021	03/2021	COBRA	4700059432	8217193	PREVENTIVO	001 a 245	INSPECCIÓN VISUAL PEDESTRE
220/2021	09/2021	COBRA	4700062227	8217194	PREVENTIVO	001 a 245	INSPECCIÓN VISUAL PEDESTRE
280/2021	12/2021	COBRA	4700063452	8218701	LAVADO	197 a 223 y 225 a 245	LAVADO DE AISLACIÓN
6807/2021	08/2021	PROPIO	PROPIO	8226807	PREVENTIVO	166 168 172 173 174 197 198 230 235 236 238 245	TERMOGRAFÍA
7148/2021	10/2021	PROPIO	PROPIO	8227148	PREVENTIVO	197 A 199 206 236 239 a 244	CORONOGRAFÍA
018/2021	01/2021	COBRA	4700059856	5077054	CORRECTIVO	129 135 15 a 16 69 a 70 212 a 213 244 a 245	CORTE Y PODA DE ÁRBOLES
128/2021	06/2021	COBRA	4700061652	5077977	CORRECTIVO	124 125 135	CORTE Y PODA DE ÁRBOLES
225/2021	10/2021	COBRA	4700063341	5078735	CORRECTIVO	225 226 136 209	CORTE Y PODA DE ÁRBOLES, RETIRO VOLANTIN
137/2022	03/2022	COBRA	4700064684	8217195	PREVENTIVO	001 a 245	INSPECCIÓN VISUAL PEDESTRE
142/2022	06/2022	COBRA	4700066086	8218702	LAVADO	197 a 223 y 225 a 245	LAVADO DE AISLACIÓN
041/2022	03/2022	COBRA	4700065273	3044417	CORRECTIVO	207 A 210 225	INSPECCIÓN VISUAL PEDESTRE POR FALLA
043/2022	02/2022	COBRA	4700065274	5080129	CORRECTIVO	22 26 50 69 71 72 75 76 78 83 124 135 169 181 198 199 200 210 225 ML-245	CORTA DE ÁRBOLES
057/2022	03/2022	COBRA	4700066726	5080753	CORRECTIVO	138 A 182	INSPECCIÓN VISUAL PEDESTRE POR FALLA
070/2022	04/2022	COBRA	4700066728	5080755	CORRECTIVO	188 a 196	INSPECCIÓN VISUAL PEDESTRE POR FALLA LIMPIEZA AISLACIÓN CON ESCOBILLA
106/2022	04/2022	COBRA	4700066734	5080761	CORRECTIVO	C1 E.144 145 146 147 178 180 183 184 185 C2 E.144 145 146 147 178 175 177 180 183 184 185	LIMPIEZA MANUAL DE AISLACIÓN EN DESCONEXIÓN
129/2022	06/2022	COBRA	4700066737	5080764	CORRECTIVO	C1: 114 a 124 129 130 139 a 142 148 a 154 C2: 144 145 146 147 178 175 177 180 183 185	LIMPIEZA AISLACIÓN CON ESCOBILLA
17/2022	09/2022	EQUANS		8217196	PREVENTIVO	001 a 245	INSPECCIÓN VISUAL PEDESTRE

**Anexo 6: Carta SEC**



ONC-000088-2022

Coquimbo, 04/11/2022

Señora  
Jessica Rodríguez Poblete  
Directora Regional SEC  
Manuel Antonio Matta N° 461, Piso 3, Oficina 304  
La Serena  
**PRESENTE.**

**REFERENCIA:** Desconexión forzada de la línea 2x66 kV Los Molles – Ovalle.  
De nuestra consideración:

Informamos a Usted que el martes 01 de noviembre de 2022, a las 03:33 horas, se produjo la desconexión forzada del circuito 2 de la línea 2x66 kV Los Molles – Ovalle (en adelante la "Línea"), la cual se encontraba conectada a la Subestación Monte Patria, de propiedad de CGE, afectando el suministro eléctrico de la comuna de Monte Patria, región de Coquimbo. Preliminarmente, podemos señalar que la causa de la desconexión, de acuerdo a la información arrojada por los registros oscilográficos de las protecciones, fue producto de una falla trifásica aislada, relacionada con la presencia de una columna de humo ascendente alrededor de la Línea, mientras se desarrollaba un incendio forestal en la zona en cuestión.

De acuerdo a la información proporcionada por nuestro cliente CGE, el evento afectó a un total de 8.811 clientes regulados, pertenecientes a la comuna previamente mencionada. La potencia interrumpida total de clientes regulados se estimó en 4 MW.

A las 04:10 horas del mismo día, se efectuó la reconexión manual con éxito de la línea, con previa autorización del Coordinador Eléctrico Nacional, reestableciendo la totalidad del suministro eléctrico de los clientes afectados previamente.

Sin otro particular, saludan atentamente a usted,

TRANSELEC S.A.,

04-11-2022

X 

Firmado por: Claudio Pizarro  
Claudio Pizarro  
Gerente Zona Norte Chico

**www.transelec.cl**  
Avenida La Cantera 4400  
Coquimbo, Chile  
+(56) 51 2470580

**Anexo 8: Registros fotográficos con fecha y hora**

**Figura 14.** Fotografía tomada el 1 de noviembre a las 07:10 horas





Figura 15. Fotografía tomada el 1 de noviembre a las 07:11 horas



Figura 16. Fotografía tomada el 1 de noviembre a las 07:11 horas



Figura 17. Fotografía tomada el 1 de noviembre a las 12:35 horas





Figura 18. Fotografía tomada el 1 de noviembre a las 12:33 horas





Figura 19. Fotografía tomada el 1 de noviembre a las 12:36 horas



Figura 20. Fotografía tomada el 1 de noviembre a las 12:36 horas







## Razón de TTCC/TTPP

$TTCC: 150/5$

$$TTPP: \frac{69000}{\sqrt{3}} / 115 / \frac{115}{\sqrt{3}}$$

## Particularidades de Ajustes

- Sin esquema de teleprotección

## Ajustes relevantes

FUNCIÓN	PARÁMETROS/TIPO	VALOR/CANTIDAD
Line Pickup (SOTF)	Phase IOC UV Pickup	1.000 [pu] 150 amp. Prim 0.800 [pu] 31907.5 V. prim
67N	$I_{pickup}$	0.300 [pu] 45 amp. primarios
79	Modo Secuencia	3 Pole-B 1

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 VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B1\SE LMO BACKUP DEJADO PS2 PACO B01\_06082020\

**DEVICE DEFINITION****DEVICES**

**ORDER CODE:** D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
**VERSION:** 5.5X  
**UR SERIAL NUMBER:** AABC08000468  
**SETTINGS SENT TO RELAY:** THURSDAY, AUGUST 06, 2020 21:08:11  
**DESCRIPTION:** PACO B1  
**TEXT COLOR**  
**ASSOCIATED DEVICE:** (NONE)

**RELAY INFORMATION**

Main Firmware:	550
Boot Firmware:	301
Relay Serial Number:	AABC08000468
CPU Serial Number:	A9NC08000909
F8L Module Serial Number	A8LC08002967
H6D Module Serial Number	A6DC08001798
M6U Module Serial Number	A6UC08001633
P6U Module Serial Number	A6UC08001679
U67 Module Serial Number	A67C08001955
W67 Module Serial Number	A67C08001967
Settings Sent to Relay	Thursday, August 06, 2020 21:08:11

**PRODUCT SETUP****SECURITY**

Command Password	0
Setting Password	0
Command Password Access Timeout	5 min
Setting Password Access Timeout	30 min
Invalid Password Attempts	3
Password Lockout Duration	5 min
Password Access Events	Disabled

**DISPLAY PROPERTIES**

Flash Message Time	1.0 s
Default Message Timeout	300 s
Default Message Intensity (VFD Only)	25 %
Screen Saver Feature (LCD Only)	Enabled
Screen Saver Wait Time (LCD Only)	2 min
Current Cutoff Level	0.020 pu
Voltage Cutoff Level	1.0 V

**CLEAR RELAY RECORDS**

Clear Fault Reports	OFF
Clear Event Records	OFF
Clear Oscillography	OFF
Clear Data Logger	OFF
CLEAR Breaker 1 Arcing Amps	OFF
CLEAR Breaker 2 Arcing Amps	OFF
Clear Energy	OFF
Reset Unauth Access	OFF

**COMMUNICATIONS****SERIAL PORTS**

RS485 Com2 Baud Rate	19200
RS485 Com2 Parity	None
RS485 Com2 Response Min Time	0 ms

**NETWORK**

IP Address	10.90.34.131
IP Subnet Mask	255.255.255.240
Gateway IP Address	10.90.34.130

**MODBUS PROTOCOL**

Modbus Slave Address	254
Modbus TCP Port Number	502

**DNP PROTOCOL**

DNP Channel 1 Port	NETWORK - UDP
DNP Channel 2 Port	NONE
DNP Address	2
DNP Client Address 1	10.90.34.130
DNP Client Address 2	0.0.0.0
DNP Client Address 3	0.0.0.0
DNP Client Address 4	0.0.0.0
DNP Client Address 5	0.0.0.0
DNP TCP/UDP Port Number	20000
DNP Unsol Resp Function	Disabled
DNP Unsol Resp Timeout	5 s
DNP Unsol Resp Max Retries	10
DNP Unsol Resp Dest Addr	1
DNP Current Scale Factor	1

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 VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B1\SE LMO BACKUP DEJADO PS2 PACO B01\_06082020\

DEVICE DEFINITION

DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000468  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
 DESCRIPTION: PACO B1  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

DNP PROTOCOL (continued from last page)

DNP Voltage Scale Factor	10
DNP Power Scale Factor	1000
DNP Energy Scale Factor	1
DNP Power Factor Scale Factor	1
DNP Other Scale Factor	0.1
DNP Current Default Deadband	30000
DNP Voltage Default Deadband	30000
DNP Power Default Deadband	30000
DNP Energy Default Deadband	30000
DNP Power Factor Default Deadband	30000
DNP Other Default Deadband	30000
DNP Time Sync IIN Period	1440 min
DNP Message Fragment Size	240
DNP Number of Paired Controls	0
DNP TCP Connection Timeout	120 s
DNP Object 1 Default Variation	2
DNP Object 2 Default Variation	2
DNP Object 30 Default Variation	2
DNP Object 20 Default Variation	1
DNP Object 21 Default Variation	1
DNP Object 22 Default Variation	1
DNP Object 23 Default Variation	1
DNP Object 32 Default Variation	1

DNP - IEC104 POINTS LISTS

DNP Binary Input Point 0	TRIPBUS 1 OP
DNP Binary Input Point 1	GND DIST Z1 OP
DNP Binary Input Point 2	GND DIST Z2 OP
DNP Binary Input Point 3	PH DIST Z3 PKP
DNP Binary Input Point 4	GND DIST Z3 PKP
DNP Binary Input Point 5	AR CLOSE BKR 1
DNP Binary Input Point 6	AL RES DESC On (VO4)
DNP Binary Input Point 7	ALARMA SF6 On(H3a)
DNP Binary Input Point 8	BLOQUEO SF6 On(H2c)
DNP Binary Input Point 9	MCB Barra On(H3c)
DNP Binary Input Point 10	ANY MAJOR ERROR
DNP Binary Input Point 11	LED TEST MODE
DNP Binary Input Point 12	IRIG-b FAILURE
DNP Binary Input Point 13	SRC1 VT FUSE FAIL OP
DNP Binary Input Point 14	Virt Op 96 On (VO96)
DNP Binary Input Point 15	Virt Op 96 On (VO96)
DNP Binary Input Point 16	Virt Op 96 On (VO96)
DNP Binary Input Point 17	TRIP 21-21 On (VO80)
DNP Binary Input Point 18	TRIP 21-21N On (VO81)
DNP Binary Input Point 19	LINE PICKUP OP
DNP Binary Input Point 20	AL ZONA1 On (VO9)
DNP Binary Input Point 21	AL ZONA2 On (VO10)
DNP Binary Input Point 22	AL ZONA 3 On (VO11)
DNP Binary Input Point 23	Virt Op 96 On (VO96)
DNP Binary Input Point 24	Virt Op 96 On (VO96)
DNP Binary Input Point 25	Virt Op 96 On (VO96)
DNP Binary Input Point 26	LED TRIP
DNP Binary Input Point 27	LED PHASE A
DNP Binary Input Point 28	LED PHASE B
DNP Binary Input Point 29	LED PHASE C
DNP Binary Input Point 30	Virt Op 96 On (VO96)
DNP Binary Input Point 31	Virt Op 96 On (VO96)
DNP Binary Input Point 32	Virt Op 96 On (VO96)
DNP Binary Input Point 33	Virt Op 96 On (VO96)
DNP Binary Input Point 34	Virt Op 96 On (VO96)
DNP Binary Input Point 35	Virt Op 96 On (VO96)
DNP Binary Input Point 36	TRIP 67N On (VO82)
DNP Binary Input Point 37	Virt Op 96 On (VO96)
DNP Binary Input Point 38	Virt Op 96 On (VO96)
DNP Binary Input Point 39	Virt Op 96 On (VO96)
DNP Binary Input Point 40	79 HAB On(H2a)
DNP Binary Input Point 41	OFF
DNP Binary Input Point 42	OFF
DNP Binary Input Point 43	OFF
DNP Binary Input Point 44	OFF
DNP Binary Input Point 45	OFF

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VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B1\SE LMO BACKUP DEJADO PS2 PACO B01\_06082020\  
DEVICE DEFINITION  
DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
VERSION: 5.5X  
UR SERIAL NUMBER: AABC08000468  
SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
DESCRIPTION: PACO B1  
TEXT COLOR  
ASSOCIATED DEVICE: (NONE)

DNP - IEC104 POINTS LISTS (continued from last page)

DNP Binary Input Point 46	OFF
DNP Binary Input Point 47	OFF
DNP Binary Input Point 48	OFF
DNP Binary Input Point 49	OFF
DNP Binary Input Point 50	OFF
DNP Binary Input Point 51	OFF
DNP Binary Input Point 52	OFF
DNP Binary Input Point 53	OFF
DNP Binary Input Point 54	OFF
DNP Binary Input Point 55	OFF
DNP Binary Input Point 56	OFF
DNP Binary Input Point 57	OFF
DNP Binary Input Point 58	OFF
DNP Binary Input Point 59	OFF
DNP Binary Input Point 60	OFF
DNP Binary Input Point 61	OFF
DNP Binary Input Point 62	OFF
DNP Binary Input Point 63	OFF
DNP Binary Input Point 64	OFF
DNP Binary Input Point 65	OFF
DNP Binary Input Point 66	OFF
DNP Binary Input Point 67	OFF
DNP Binary Input Point 68	OFF
DNP Binary Input Point 69	OFF
DNP Binary Input Point 70	OFF
DNP Binary Input Point 71	OFF
DNP Binary Input Point 72	OFF
DNP Binary Input Point 73	OFF
DNP Binary Input Point 74	OFF
DNP Binary Input Point 75	OFF
DNP Binary Input Point 76	OFF
DNP Binary Input Point 77	OFF
DNP Binary Input Point 78	OFF
DNP Binary Input Point 79	OFF
DNP Binary Input Point 80	OFF
DNP Binary Input Point 81	OFF
DNP Binary Input Point 82	OFF
DNP Binary Input Point 83	OFF
DNP Binary Input Point 84	OFF
DNP Binary Input Point 85	OFF
DNP Binary Input Point 86	OFF
DNP Binary Input Point 87	OFF
DNP Binary Input Point 88	OFF
DNP Binary Input Point 89	OFF
DNP Binary Input Point 90	OFF
DNP Binary Input Point 91	OFF
DNP Binary Input Point 92	OFF
DNP Binary Input Point 93	OFF
DNP Binary Input Point 94	OFF
DNP Binary Input Point 95	OFF
DNP Binary Input Point 96	OFF
DNP Binary Input Point 97	OFF
DNP Binary Input Point 98	OFF
DNP Binary Input Point 99	OFF
DNP Binary Input Point 100	OFF
DNP Binary Input Point 101	OFF
DNP Binary Input Point 102	OFF
DNP Binary Input Point 103	OFF
DNP Binary Input Point 104	OFF
DNP Binary Input Point 105	OFF
DNP Binary Input Point 106	OFF
DNP Binary Input Point 107	OFF
DNP Binary Input Point 108	OFF
DNP Binary Input Point 109	OFF
DNP Binary Input Point 110	OFF
DNP Binary Input Point 111	OFF
DNP Binary Input Point 112	OFF
DNP Binary Input Point 113	OFF
DNP Binary Input Point 114	OFF
DNP Binary Input Point 115	OFF
DNP Binary Input Point 116	OFF

SE LMO BACKUP DEJADO PS2 PACO B01\_06082020.URS  
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VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B1\SE LMO BACKUP DEJADO PS2 PACO B01\_06082020\

DEVICE DEFINITION

DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
VERSION: 5.5X  
UR SERIAL NUMBER: AABC08000468  
SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
DESCRIPTION: PACO B1  
TEXT COLOR  
ASSOCIATED DEVICE: (NONE)

DNP - IEC104 POINTS LISTS (continued from last page)

DNP Binary Input Point 117	OFF
DNP Binary Input Point 118	OFF
DNP Binary Input Point 119	OFF
DNP Binary Input Point 120	OFF
DNP Binary Input Point 121	OFF
DNP Binary Input Point 122	OFF
DNP Binary Input Point 123	OFF
DNP Binary Input Point 124	OFF
DNP Binary Input Point 125	OFF
DNP Binary Input Point 126	OFF
DNP Binary Input Point 127	OFF
DNP Binary Input Point 128	OFF
DNP Binary Input Point 129	OFF
DNP Binary Input Point 130	OFF
DNP Binary Input Point 131	OFF
DNP Binary Input Point 132	OFF
DNP Binary Input Point 133	OFF
DNP Binary Input Point 134	OFF
DNP Binary Input Point 135	OFF
DNP Binary Input Point 136	OFF
DNP Binary Input Point 137	OFF
DNP Binary Input Point 138	OFF
DNP Binary Input Point 139	OFF
DNP Binary Input Point 140	OFF
DNP Binary Input Point 141	OFF
DNP Binary Input Point 142	OFF
DNP Binary Input Point 143	OFF
DNP Binary Input Point 144	OFF
DNP Binary Input Point 145	OFF
DNP Binary Input Point 146	OFF
DNP Binary Input Point 147	OFF
DNP Binary Input Point 148	OFF
DNP Binary Input Point 149	OFF
DNP Binary Input Point 150	OFF
DNP Binary Input Point 151	OFF
DNP Binary Input Point 152	OFF
DNP Binary Input Point 153	OFF
DNP Binary Input Point 154	OFF
DNP Binary Input Point 155	OFF
DNP Binary Input Point 156	OFF
DNP Binary Input Point 157	OFF
DNP Binary Input Point 158	OFF
DNP Binary Input Point 159	OFF
DNP Binary Input Point 160	OFF
DNP Binary Input Point 161	OFF
DNP Binary Input Point 162	OFF
DNP Binary Input Point 163	OFF
DNP Binary Input Point 164	OFF
DNP Binary Input Point 165	OFF
DNP Binary Input Point 166	OFF
DNP Binary Input Point 167	OFF
DNP Binary Input Point 168	OFF
DNP Binary Input Point 169	OFF
DNP Binary Input Point 170	OFF
DNP Binary Input Point 171	OFF
DNP Binary Input Point 172	OFF
DNP Binary Input Point 173	OFF
DNP Binary Input Point 174	OFF
DNP Binary Input Point 175	OFF
DNP Binary Input Point 176	OFF
DNP Binary Input Point 177	OFF
DNP Binary Input Point 178	OFF
DNP Binary Input Point 179	OFF
DNP Binary Input Point 180	OFF
DNP Binary Input Point 181	OFF
DNP Binary Input Point 182	OFF
DNP Binary Input Point 183	OFF
DNP Binary Input Point 184	OFF
DNP Binary Input Point 185	OFF
DNP Binary Input Point 186	OFF
DNP Binary Input Point 187	OFF



SE LMO BACKUP DEJADO PS2 PACO B01\_06082020.URS  
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 VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B1\SE LMO BACKUP DEJADO PS2 PACO B01\_06082020\

DEVICE DEFINITION

DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000468  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
 DESCRIPTION: PACO B1  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

DNP - IEC104 POINTS LISTS (continued from last page)

DNP Binary Input Point 188	OFF
DNP Binary Input Point 189	OFF
DNP Binary Input Point 190	OFF
DNP Binary Input Point 191	OFF
DNP Binary Input Point 192	OFF
DNP Binary Input Point 193	OFF
DNP Binary Input Point 194	OFF
DNP Binary Input Point 195	OFF
DNP Binary Input Point 196	OFF
DNP Binary Input Point 197	OFF
DNP Binary Input Point 198	OFF
DNP Binary Input Point 199	OFF
DNP Binary Input Point 200	OFF
DNP Binary Input Point 201	OFF
DNP Binary Input Point 202	OFF
DNP Binary Input Point 203	OFF
DNP Binary Input Point 204	OFF
DNP Binary Input Point 205	OFF
DNP Binary Input Point 206	OFF
DNP Binary Input Point 207	OFF
DNP Binary Input Point 208	OFF
DNP Binary Input Point 209	OFF
DNP Binary Input Point 210	OFF
DNP Binary Input Point 211	OFF
DNP Binary Input Point 212	OFF
DNP Binary Input Point 213	OFF
DNP Binary Input Point 214	OFF
DNP Binary Input Point 215	OFF
DNP Binary Input Point 216	OFF
DNP Binary Input Point 217	OFF
DNP Binary Input Point 218	OFF
DNP Binary Input Point 219	OFF
DNP Binary Input Point 220	OFF
DNP Binary Input Point 221	OFF
DNP Binary Input Point 222	OFF
DNP Binary Input Point 223	OFF
DNP Binary Input Point 224	OFF
DNP Binary Input Point 225	OFF
DNP Binary Input Point 226	OFF
DNP Binary Input Point 227	OFF
DNP Binary Input Point 228	OFF
DNP Binary Input Point 229	OFF
DNP Binary Input Point 230	OFF
DNP Binary Input Point 231	OFF
DNP Binary Input Point 232	OFF
DNP Binary Input Point 233	OFF
DNP Binary Input Point 234	OFF
DNP Binary Input Point 235	OFF
DNP Binary Input Point 236	OFF
DNP Binary Input Point 237	OFF
DNP Binary Input Point 238	OFF
DNP Binary Input Point 239	OFF
DNP Binary Input Point 240	OFF
DNP Binary Input Point 241	OFF
DNP Binary Input Point 242	OFF
DNP Binary Input Point 243	OFF
DNP Binary Input Point 244	OFF
DNP Binary Input Point 245	OFF
DNP Binary Input Point 246	OFF
DNP Binary Input Point 247	OFF
DNP Binary Input Point 248	OFF
DNP Binary Input Point 249	OFF
DNP Binary Input Point 250	OFF
DNP Binary Input Point 251	OFF
DNP Binary Input Point 252	OFF
DNP Binary Input Point 253	OFF
DNP Binary Input Point 254	OFF
DNP Binary Input Point 255	OFF
DNP Analog Input Point 0	SRC1 P
DNP Analog Input Point 1	SRC1 Q
DNP Analog Input Point 2	SRC1 Vab RMS

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VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B1\SE LMO BACKUP DEJADO PS2 PACO B01\_06082020\  
DEVICE DEFINITION  
DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
VERSION: 5.5X  
UR SERIAL NUMBER: AABC08000468  
SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
DESCRIPTION: PACO B1  
TEXT COLOR  
ASSOCIATED DEVICE: (NONE)

DNP - IEC104 POINTS LISTS (continued from last page)

	SRC1	Frequency	Fault Location [1]
DNP Analog Input Point 3			
DNP Analog Input Point 4			
DNP Analog Input Point 5			OFF
DNP Analog Input Point 6			OFF
DNP Analog Input Point 7			OFF
DNP Analog Input Point 8			OFF
DNP Analog Input Point 9			OFF
DNP Analog Input Point 10			OFF
DNP Analog Input Point 11			OFF
DNP Analog Input Point 12			OFF
DNP Analog Input Point 13			OFF
DNP Analog Input Point 14			OFF
DNP Analog Input Point 15			OFF
DNP Analog Input Point 16			OFF
DNP Analog Input Point 17			OFF
DNP Analog Input Point 18			OFF
DNP Analog Input Point 19			OFF
DNP Analog Input Point 20			OFF
DNP Analog Input Point 21			OFF
DNP Analog Input Point 22			OFF
DNP Analog Input Point 23			OFF
DNP Analog Input Point 24			OFF
DNP Analog Input Point 25			OFF
DNP Analog Input Point 26			OFF
DNP Analog Input Point 27			OFF
DNP Analog Input Point 28			OFF
DNP Analog Input Point 29			OFF
DNP Analog Input Point 30			OFF
DNP Analog Input Point 31			OFF
DNP Analog Input Point 32			OFF
DNP Analog Input Point 33			OFF
DNP Analog Input Point 34			OFF
DNP Analog Input Point 35			OFF
DNP Analog Input Point 36			OFF
DNP Analog Input Point 37			OFF
DNP Analog Input Point 38			OFF
DNP Analog Input Point 39			OFF
DNP Analog Input Point 40			OFF
DNP Analog Input Point 41			OFF
DNP Analog Input Point 42			OFF
DNP Analog Input Point 43			OFF
DNP Analog Input Point 44			OFF
DNP Analog Input Point 45			OFF
DNP Analog Input Point 46			OFF
DNP Analog Input Point 47			OFF
DNP Analog Input Point 48			OFF
DNP Analog Input Point 49			OFF
DNP Analog Input Point 50			OFF
DNP Analog Input Point 51			OFF
DNP Analog Input Point 52			OFF
DNP Analog Input Point 53			OFF
DNP Analog Input Point 54			OFF
DNP Analog Input Point 55			OFF
DNP Analog Input Point 56			OFF
DNP Analog Input Point 57			OFF
DNP Analog Input Point 58			OFF
DNP Analog Input Point 59			OFF
DNP Analog Input Point 60			OFF
DNP Analog Input Point 61			OFF
DNP Analog Input Point 62			OFF
DNP Analog Input Point 63			OFF
DNP Analog Input Point 64			OFF
DNP Analog Input Point 65			OFF
DNP Analog Input Point 66			OFF
DNP Analog Input Point 67			OFF
DNP Analog Input Point 68			OFF
DNP Analog Input Point 69			OFF
DNP Analog Input Point 70			OFF
DNP Analog Input Point 71			OFF
DNP Analog Input Point 72			OFF
DNP Analog Input Point 73			OFF

SE LMO BACKUP DEJADO PS2 PACO B01\_06082020.URS  
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VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B1\SE LMO BACKUP DEJADO PS2 PACO B01\_06082020\

DEVICE DEFINITION

DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
VERSION: 5.5X  
UR SERIAL NUMBER: AABC08000468  
SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
DESCRIPTION: PACO B1  
TEXT COLOR  
ASSOCIATED DEVICE: (NONE)

DNP - IEC104 POINTS LISTS (continued from last page)

DNP Analog Input Point 74	OFF
DNP Analog Input Point 75	OFF
DNP Analog Input Point 76	OFF
DNP Analog Input Point 77	OFF
DNP Analog Input Point 78	OFF
DNP Analog Input Point 79	OFF
DNP Analog Input Point 80	OFF
DNP Analog Input Point 81	OFF
DNP Analog Input Point 82	OFF
DNP Analog Input Point 83	OFF
DNP Analog Input Point 84	OFF
DNP Analog Input Point 85	OFF
DNP Analog Input Point 86	OFF
DNP Analog Input Point 87	OFF
DNP Analog Input Point 88	OFF
DNP Analog Input Point 89	OFF
DNP Analog Input Point 90	OFF
DNP Analog Input Point 91	OFF
DNP Analog Input Point 92	OFF
DNP Analog Input Point 93	OFF
DNP Analog Input Point 94	OFF
DNP Analog Input Point 95	OFF
DNP Analog Input Point 96	OFF
DNP Analog Input Point 97	OFF
DNP Analog Input Point 98	OFF
DNP Analog Input Point 99	OFF
DNP Analog Input Point 100	OFF
DNP Analog Input Point 101	OFF
DNP Analog Input Point 102	OFF
DNP Analog Input Point 103	OFF
DNP Analog Input Point 104	OFF
DNP Analog Input Point 105	OFF
DNP Analog Input Point 106	OFF
DNP Analog Input Point 107	OFF
DNP Analog Input Point 108	OFF
DNP Analog Input Point 109	OFF
DNP Analog Input Point 110	OFF
DNP Analog Input Point 111	OFF
DNP Analog Input Point 112	OFF
DNP Analog Input Point 113	OFF
DNP Analog Input Point 114	OFF
DNP Analog Input Point 115	OFF
DNP Analog Input Point 116	OFF
DNP Analog Input Point 117	OFF
DNP Analog Input Point 118	OFF
DNP Analog Input Point 119	OFF
DNP Analog Input Point 120	OFF
DNP Analog Input Point 121	OFF
DNP Analog Input Point 122	OFF
DNP Analog Input Point 123	OFF
DNP Analog Input Point 124	OFF
DNP Analog Input Point 125	OFF
DNP Analog Input Point 126	OFF
DNP Analog Input Point 127	OFF
DNP Analog Input Point 128	OFF
DNP Analog Input Point 129	OFF
DNP Analog Input Point 130	OFF
DNP Analog Input Point 131	OFF
DNP Analog Input Point 132	OFF
DNP Analog Input Point 133	OFF
DNP Analog Input Point 134	OFF
DNP Analog Input Point 135	OFF
DNP Analog Input Point 136	OFF
DNP Analog Input Point 137	OFF
DNP Analog Input Point 138	OFF
DNP Analog Input Point 139	OFF
DNP Analog Input Point 140	OFF
DNP Analog Input Point 141	OFF
DNP Analog Input Point 142	OFF
DNP Analog Input Point 143	OFF
DNP Analog Input Point 144	OFF

SE LMO BACKUP DEJADO PS2 PACO B01\_06082020.URS  
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 VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B1\SE LMO BACKUP DEJADO PS2 PACO B01\_06082020\

## DEVICE DEFINITION

## DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000468  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
 DESCRIPTION: PACO B1  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

## DNP - IEC104 POINTS LISTS (continued from last page)

DNP Analog Input Point 145	OFF
DNP Analog Input Point 146	OFF
DNP Analog Input Point 147	OFF
DNP Analog Input Point 148	OFF
DNP Analog Input Point 149	OFF
DNP Analog Input Point 150	OFF
DNP Analog Input Point 151	OFF
DNP Analog Input Point 152	OFF
DNP Analog Input Point 153	OFF
DNP Analog Input Point 154	OFF
DNP Analog Input Point 155	OFF
DNP Analog Input Point 156	OFF
DNP Analog Input Point 157	OFF
DNP Analog Input Point 158	OFF
DNP Analog Input Point 159	OFF
DNP Analog Input Point 160	OFF
DNP Analog Input Point 161	OFF
DNP Analog Input Point 162	OFF
DNP Analog Input Point 163	OFF
DNP Analog Input Point 164	OFF
DNP Analog Input Point 165	OFF
DNP Analog Input Point 166	OFF
DNP Analog Input Point 167	OFF
DNP Analog Input Point 168	OFF
DNP Analog Input Point 169	OFF
DNP Analog Input Point 170	OFF
DNP Analog Input Point 171	OFF
DNP Analog Input Point 172	OFF
DNP Analog Input Point 173	OFF
DNP Analog Input Point 174	OFF
DNP Analog Input Point 175	OFF
DNP Analog Input Point 176	OFF
DNP Analog Input Point 177	OFF
DNP Analog Input Point 178	OFF
DNP Analog Input Point 179	OFF
DNP Analog Input Point 180	OFF
DNP Analog Input Point 181	OFF
DNP Analog Input Point 182	OFF
DNP Analog Input Point 183	OFF
DNP Analog Input Point 184	OFF
DNP Analog Input Point 185	OFF
DNP Analog Input Point 186	OFF
DNP Analog Input Point 187	OFF
DNP Analog Input Point 188	OFF
DNP Analog Input Point 189	OFF
DNP Analog Input Point 190	OFF
DNP Analog Input Point 191	OFF
DNP Analog Input Point 192	OFF
DNP Analog Input Point 193	OFF
DNP Analog Input Point 194	OFF
DNP Analog Input Point 195	OFF
DNP Analog Input Point 196	OFF
DNP Analog Input Point 197	OFF
DNP Analog Input Point 198	OFF
DNP Analog Input Point 199	OFF
DNP Analog Input Point 200	OFF
DNP Analog Input Point 201	OFF
DNP Analog Input Point 202	OFF
DNP Analog Input Point 203	OFF
DNP Analog Input Point 204	OFF
DNP Analog Input Point 205	OFF
DNP Analog Input Point 206	OFF
DNP Analog Input Point 207	OFF
DNP Analog Input Point 208	OFF
DNP Analog Input Point 209	OFF
DNP Analog Input Point 210	OFF
DNP Analog Input Point 211	OFF
DNP Analog Input Point 212	OFF
DNP Analog Input Point 213	OFF
DNP Analog Input Point 214	OFF
DNP Analog Input Point 215	OFF

SE LMO BACKUP DEJADO PS2 PACO B01\_06082020.URS  
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 VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B1\SE LMO BACKUP DEJADO PS2 PACO B01\_06082020\

DEVICE DEFINITION

DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000468  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
 DESCRIPTION: PACO B1  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

DNP - IEC104 POINTS LISTS (continued from last page)

DNP Analog Input Point 216	OFF
DNP Analog Input Point 217	OFF
DNP Analog Input Point 218	OFF
DNP Analog Input Point 219	OFF
DNP Analog Input Point 220	OFF
DNP Analog Input Point 221	OFF
DNP Analog Input Point 222	OFF
DNP Analog Input Point 223	OFF
DNP Analog Input Point 224	OFF
DNP Analog Input Point 225	OFF
DNP Analog Input Point 226	OFF
DNP Analog Input Point 227	OFF
DNP Analog Input Point 228	OFF
DNP Analog Input Point 229	OFF
DNP Analog Input Point 230	OFF
DNP Analog Input Point 231	OFF
DNP Analog Input Point 232	OFF
DNP Analog Input Point 233	OFF
DNP Analog Input Point 234	OFF
DNP Analog Input Point 235	OFF
DNP Analog Input Point 236	OFF
DNP Analog Input Point 237	OFF
DNP Analog Input Point 238	OFF
DNP Analog Input Point 239	OFF
DNP Analog Input Point 240	OFF
DNP Analog Input Point 241	OFF
DNP Analog Input Point 242	OFF
DNP Analog Input Point 243	OFF
DNP Analog Input Point 244	OFF
DNP Analog Input Point 245	OFF
DNP Analog Input Point 246	OFF
DNP Analog Input Point 247	OFF
DNP Analog Input Point 248	OFF
DNP Analog Input Point 249	OFF
DNP Analog Input Point 250	OFF
DNP Analog Input Point 251	OFF
DNP Analog Input Point 252	OFF
DNP Analog Input Point 253	OFF
DNP Analog Input Point 254	OFF
DNP Analog Input Point 255	OFF

HTTP

HTTP TCP Port Number	80
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TFTP

TFTP Main UDP Port Number	69
TFTP Data UDP Port Number 1	0
TFTP Data UDP Port Number 2	0

IEC 60870-5-104

Function	Disabled
IEC TCP Port Number	2404
IEC Client Address 1	0. 0. 0. 0
IEC Client Address 2	0. 0. 0. 0
IEC Client Address 3	0. 0. 0. 0
IEC Client Address 4	0. 0. 0. 0
IEC Client Address 5	0. 0. 0. 0
IEC Common Address of ASDU	0
IEC Cyclic Data Period	60 s
IEC Current Default Threshold	30000
IEC Voltage Default Threshold	30000
IEC Power Default Threshold	30000
IEC Energy Default Threshold	30000
IEC Power Factor Default Threshold	30000
IEC Other Default Threshold	30000

SNTP

Function	Disabled
Server IP Address	0. 0. 0. 0
UDP Port Number	123

SE LMO BACKUP DEJADO PS2 PACO B01\_06082020.URS  
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VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B1\SE LMO BACKUP DEJADO PS2 PACO B01\_06082020\

DEVICE DEFINITION

DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
VERSION: 5.5X  
UR SERIAL NUMBER: AABC08000468  
SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
DESCRIPTION: PACO B1  
TEXT COLOR  
ASSOCIATED DEVICE: (NONE)

---

MODBUS USER MAP

Address 1	7182
Address 2	7176
Address 3	6671
Address 4	7552
Address 5	0
Address 6	0
Address 7	0
Address 8	0
Address 9	0
Address 10	0
Address 11	0
Address 12	0
Address 13	0
Address 14	0
Address 15	0
Address 16	0
Address 17	0
Address 18	0
Address 19	0
Address 20	0
Address 21	0
Address 22	0
Address 23	0
Address 24	0
Address 25	0
Address 26	0
Address 27	0
Address 28	0
Address 29	0
Address 30	0
Address 31	0
Address 32	0
Address 33	0
Address 34	0
Address 35	0
Address 36	0
Address 37	0
Address 38	0
Address 39	0
Address 40	0
Address 41	0
Address 42	0
Address 43	0
Address 44	0
Address 45	0
Address 46	0
Address 47	0
Address 48	0
Address 49	0
Address 50	0
Address 51	0
Address 52	0
Address 53	0
Address 54	0
Address 55	0
Address 56	0
Address 57	0
Address 58	0
Address 59	0
Address 60	0
Address 61	0
Address 62	0
Address 63	0
Address 64	0
Address 65	0
Address 66	0
Address 67	0
Address 68	0
Address 69	0
Address 70	0
Address 71	0

SE LMO BACKUP DEJADO PS2 PACO B01\_06082020.URS  
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VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B1\SE LMO BACKUP DEJADO PS2 PACO B01\_06082020\  
DEVICE DEFINITION  
DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
VERSION: 5.5X  
UR SERIAL NUMBER: AABC08000468  
SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
DESCRIPTION: PACO B1  
TEXT COLOR  
ASSOCIATED DEVICE: (NONE)

---

MODBUS USER MAP (continued from last page)

Address 72	0
Address 73	0
Address 74	0
Address 75	0
Address 76	0
Address 77	0
Address 78	0
Address 79	0
Address 80	0
Address 81	0
Address 82	0
Address 83	0
Address 84	0
Address 85	0
Address 86	0
Address 87	0
Address 88	0
Address 89	0
Address 90	0
Address 91	0
Address 92	0
Address 93	0
Address 94	0
Address 95	0
Address 96	0
Address 97	0
Address 98	0
Address 99	0
Address 100	0
Address 101	0
Address 102	0
Address 103	0
Address 104	0
Address 105	0
Address 106	0
Address 107	0
Address 108	0
Address 109	0
Address 110	0
Address 111	0
Address 112	0
Address 113	0
Address 114	0
Address 115	0
Address 116	0
Address 117	0
Address 118	0
Address 119	0
Address 120	0
Address 121	0
Address 122	0
Address 123	0
Address 124	0
Address 125	0
Address 126	0
Address 127	0
Address 128	0
Address 129	0
Address 130	0
Address 131	0
Address 132	0
Address 133	0
Address 134	0
Address 135	0
Address 136	0
Address 137	0
Address 138	0
Address 139	0
Address 140	0
Address 141	0
Address 142	0

SE LMO BACKUP DEJADO PS2 PACO B01\_06082020.URS  
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VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B1\SE LMO BACKUP DEJADO PS2 PACO B01\_06082020\  
DEVICE DEFINITION  
DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
VERSION: 5.5X  
UR SERIAL NUMBER: AABC08000468  
SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
DESCRIPTION: PACO B1  
TEXT COLOR  
ASSOCIATED DEVICE: (NONE)

---

MODBUS USER MAP (continued from last page)

Address 143	0
Address 144	0
Address 145	0
Address 146	0
Address 147	0
Address 148	0
Address 149	0
Address 150	0
Address 151	0
Address 152	0
Address 153	0
Address 154	0
Address 155	0
Address 156	0
Address 157	0
Address 158	0
Address 159	0
Address 160	0
Address 161	0
Address 162	0
Address 163	0
Address 164	0
Address 165	0
Address 166	0
Address 167	0
Address 168	0
Address 169	0
Address 170	0
Address 171	0
Address 172	0
Address 173	0
Address 174	0
Address 175	0
Address 176	0
Address 177	0
Address 178	0
Address 179	0
Address 180	0
Address 181	0
Address 182	0
Address 183	0
Address 184	0
Address 185	0
Address 186	0
Address 187	0
Address 188	0
Address 189	0
Address 190	0
Address 191	0
Address 192	0
Address 193	0
Address 194	0
Address 195	0
Address 196	0
Address 197	0
Address 198	0
Address 199	0
Address 200	0
Address 201	0
Address 202	0
Address 203	0
Address 204	0
Address 205	0
Address 206	0
Address 207	0
Address 208	0
Address 209	0
Address 210	0
Address 211	0
Address 212	0
Address 213	0



SE LMO BACKUP DEJADO PS2 PACO B01\_06082020.URS  
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 VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B1\SE LMO BACKUP DEJADO PS2 PACO B01\_06082020\

DEVICE DEFINITION

DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000468  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
 DESCRIPTION: PACO B1  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

MODBUS USER MAP (continued from last page)

Address 214	0
Address 215	0
Address 216	0
Address 217	0
Address 218	0
Address 219	0
Address 220	0
Address 221	0
Address 222	0
Address 223	0
Address 224	0
Address 225	0
Address 226	0
Address 227	0
Address 228	0
Address 229	0
Address 230	0
Address 231	0
Address 232	0
Address 233	0
Address 234	0
Address 235	0
Address 236	0
Address 237	0
Address 238	0
Address 239	0
Address 240	0
Address 241	0
Address 242	0
Address 243	0
Address 244	0
Address 245	0
Address 246	0
Address 247	0
Address 248	0
Address 249	0
Address 250	0
Address 251	0
Address 252	0
Address 253	0
Address 254	0
Address 255	0
Address 256	0

REAL TIME CLOCK

IRIG-B Signal Type	DC Shift
Real Time Clock Events	Enabled
Time Zone Offset	-4.0 hr
DST Function	Disabled
DST Start Month	January
DST Start Day	Sunday
DST Start Day Instance	First
DST Start Hour	2
DST Stop Month	January
DST Stop Day	Sunday
DST Stop Day Instance	First
DST Stop Hour	2

FAULT REPORT

Fault Report 1 Source	SRC 1 (SRC 1)
Fault Report 1 Trigger	TRIPBUS 1 OP
Fault Report 1 Positive Seq (Z1) Mag	1.53 ohms
Fault Report 1 Positive Seq (Z1) Angle	61 deg
Fault Report 1 Zero Seq (Z0) Mag	5.41 ohms
Fault Report 1 Zero Seq (Z0) Angle	73 deg
Fault Report 1 Line Length Units	km
Fault Report 1 Line Length	66.8
Fault Report 1 VT Substitution	None
Fault Report 1 System Z0 Mag	2.00 ohms
Fault Report 1 System Z0 Angle	75 deg

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 DESCRIPTION: PACO B1  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

OSCILLOGRAPHY

Number Of Records	64
Trigger Mode	Automatic Overwrite
Trigger Position	30 %
Trigger Source	TRIPBUS 1 OP
AC Input Waveforms	16 samples/cycle
Digital Channel 1	TRIP 3-POLE
Digital Channel 2	LED PHASE A
Digital Channel 3	LED PHASE B
Digital Channel 4	LED PHASE C
Digital Channel 5	LED TRIP
Digital Channel 6	LED TROUBLE
Digital Channel 7	52B1 CERRADO On(H1a)
Digital Channel 8	RES CARG On(H1c)
Digital Channel 9	79 HAB On(H2a)
Digital Channel 10	BLOQUEO SF6 On(H2c)
Digital Channel 11	MCB Barra On(H3c)
Digital Channel 12	SUP 79 On(H4a)
Digital Channel 13	PH DIST Z1 OP AB
Digital Channel 14	PH DIST Z1 OP BC
Digital Channel 15	PH DIST Z1 OP CA
Digital Channel 16	PH DIST Z2 OP AB
Digital Channel 17	PH DIST Z2 OP BC
Digital Channel 18	PH DIST Z2 OP CA
Digital Channel 19	GND DIST Z1 OP A
Digital Channel 20	GND DIST Z2 OP A
Digital Channel 21	GND DIST Z3 OP A
Digital Channel 22	GND DIST Z1 OP B
Digital Channel 23	GND DIST Z2 OP B
Digital Channel 24	GND DIST Z3 OP B
Digital Channel 25	GND DIST Z1 OP C
Digital Channel 26	GND DIST Z2 OP C
Digital Channel 27	GND DIST Z3 OP C
Digital Channel 28	NEUTRAL TOC1 OP
Digital Channel 29	NTRL DIR OC1 FWD
Digital Channel 30	NTRL DIR OC1 REV
Digital Channel 31	NEUTRAL IOC1 OP
Digital Channel 32	LED PICKUP
Digital Channel 33	AR 3-P/1 RIP
Digital Channel 34	AR CLOSE BKR 1
Digital Channel 35	AR DISABLED
Digital Channel 36	AR ENABLED
Digital Channel 37	AR LO
Digital Channel 38	AR RIP
Digital Channel 39	DIR BLOCK TRIP B
Digital Channel 40	PH DIST Z1 PKP AB
Digital Channel 41	PH DIST Z2 PKP AB
Digital Channel 42	PH DIST Z1 PKP BC
Digital Channel 43	PH DIST Z2 PKP BC
Digital Channel 44	PH DIST Z1 PKP CA
Digital Channel 45	PH DIST Z2 PKP CA
Digital Channel 46	GND DIST Z1 PKP A
Digital Channel 47	GND DIST Z2 PKP A
Digital Channel 48	GND DIST Z3 PKP A
Digital Channel 49	GND DIST Z1 PKP B
Digital Channel 50	GND DIST Z2 PKP B
Digital Channel 51	GND DIST Z3 PKP B
Digital Channel 52	GND DIST Z1 PKP C
Digital Channel 53	GND DIST Z2 PKP C
Digital Channel 54	GND DIST Z3 PKP C
Digital Channel 55	NEUTRAL TOC1 PKP
Digital Channel 56	NEUTRAL IOC1 PKP
Digital Channel 57	LINE PICKUP OP
Digital Channel 58	LINE PICKUP PKP
Digital Channel 59	LINE PICKUP RCL TRIP
Digital Channel 60	PH DIST Z3 OP AB
Digital Channel 61	PH DIST Z3 OP BC
Digital Channel 62	PH DIST Z3 OP CA
Digital Channel 63	OFF
Analog Channel 1	SRC1 Ia Mag
Analog Channel 2	SRC1 Ib Mag
Analog Channel 3	SRC1 Ic Mag

SE LMO BACKUP DEJADO PS2 PACO B01\_06082020.URS

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VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B1\SE LMO BACKUP DEJADO PS2 PACO B01\_06082020\

## DEVICE DEFINITION

## DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67

VERSION: 5.5X

UR SERIAL NUMBER: AABC08000468

SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11

DESCRIPTION: PACO B1

TEXT COLOR

ASSOCIATED DEVICE: (NONE)

## OSCILLOGRAPHY (continued from last page)

Analog Channel 4	SRC1	In Mag
Analog Channel 5	SRC1	Vag Mag
Analog Channel 6	SRC1	Vbg Mag
Analog Channel 7	SRC1	Vcg Mag
Analog Channel 8		Fault Location [1]
Analog Channel 9		OFF
Analog Channel 10		OFF
Analog Channel 11		OFF
Analog Channel 12		OFF
Analog Channel 13		OFF
Analog Channel 14		OFF
Analog Channel 15		OFF
Analog Channel 16		OFF

## DATA LOGGER

Data Logger Mode	Continuous
Data Logger Trigger	OFF
Rate	60000 msec
Channel 1	OFF
Channel 2	OFF
Channel 3	OFF
Channel 4	OFF
Channel 5	OFF
Channel 6	OFF
Channel 7	OFF
Channel 8	OFF
Channel 9	OFF
Channel 10	OFF
Channel 11	OFF
Channel 12	OFF
Channel 13	OFF
Channel 14	OFF
Channel 15	OFF
Channel 16	OFF
Configuration	--- CHNL x --- DAYS

## USER-PROGRAMMABLE LEADS

## LED TEST

Function	Disabled
Control	OFF

## TRIP AND ALARMS LEADS

Trip LED Input	TRIPBUS 1 OP
Alarm LED Input	OFF

## USER PROGRAMMABLE LEADS

LED 1: OPERAND	52B1 CERRADO On(H1a)
LED 1: TYPE	Self-Reset
LED 2: OPERAND	AL RES DESC On (VO4)
LED 2: TYPE	Self-Reset
LED 3: OPERAND	79 HAB On(H2a)
LED 3: TYPE	Self-Reset
LED 4: OPERAND	SUP 79 On(H4a)
LED 4: TYPE	Self-Reset
LED 5: OPERAND	ALARMA SF6 On(H3a)
LED 5: TYPE	Self-Reset
LED 6: OPERAND	BLOQUEO SF6 On(H2c)
LED 6: TYPE	Self-Reset
LED 7: OPERAND	MCB Barra On(H3c)
LED 7: TYPE	Self-Reset
LED 8: OPERAND	OFF
LED 8: TYPE	Self-Reset
LED 9: OPERAND	OFF
LED 9: TYPE	Self-Reset
LED 10: OPERAND	OFF
LED 10: TYPE	Self-Reset
LED 11: OPERAND	OFF
LED 11: TYPE	Self-Reset
LED 12: OPERAND	OFF
LED 12: TYPE	Self-Reset
LED 13: OPERAND	AL ZONA1 On (VO9)

SE LMO BACKUP DEJADO PS2 PACO B01\_06082020.URS  
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 VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B1\SE LMO BACKUP DEJADO PS2 PACO B01\_06082020\

DEVICE DEFINITION

DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000468  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
 DESCRIPTION: PACO B1  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

USER PROGRAMMABLE LEDES (continued from last page)

LED 13: TYPE	Latched
LED 14: OPERAND	AL ZONA2 On (VO10)
LED 14: TYPE	Latched
LED 15: OPERAND	AL ZONA 3 On (VO11)
LED 15: TYPE	Latched
LED 16: OPERAND	NEUTRAL IOC1 OP
LED 16: TYPE	Latched
LED 17: OPERAND	NEUTRAL TOC1 OP
LED 17: TYPE	Latched
LED 18: OPERAND	OFF
LED 18: TYPE	Self-Reset
LED 19: OPERAND	OFF
LED 19: TYPE	Self-Reset
LED 20: OPERAND	OFF
LED 20: TYPE	Self-Reset
LED 21: OPERAND	OFF
LED 21: TYPE	Self-Reset
LED 22: OPERAND	OFF
LED 22: TYPE	Self-Reset
LED 23: OPERAND	OFF
LED 23: TYPE	Self-Reset
LED 24: OPERAND	OFF
LED 24: TYPE	Self-Reset
LED 25: OPERAND	OFF
LED 25: TYPE	Self-Reset
LED 26: OPERAND	OFF
LED 26: TYPE	Self-Reset
LED 27: OPERAND	OFF
LED 27: TYPE	Self-Reset
LED 28: OPERAND	OFF
LED 28: TYPE	Self-Reset
LED 29: OPERAND	OFF
LED 29: TYPE	Self-Reset
LED 30: OPERAND	OFF
LED 30: TYPE	Self-Reset
LED 31: OPERAND	OFF
LED 31: TYPE	Self-Reset
LED 32: OPERAND	OFF
LED 32: TYPE	Self-Reset
LED 33: OPERAND	OFF
LED 33: TYPE	Self-Reset
LED 34: OPERAND	OFF
LED 34: TYPE	Self-Reset
LED 35: OPERAND	OFF
LED 35: TYPE	Self-Reset
LED 36: OPERAND	OFF
LED 36: TYPE	Self-Reset
LED 37: OPERAND	OFF
LED 37: TYPE	Self-Reset
LED 38: OPERAND	OFF
LED 38: TYPE	Self-Reset
LED 39: OPERAND	OFF
LED 39: TYPE	Self-Reset
LED 40: OPERAND	OFF
LED 40: TYPE	Self-Reset
LED 41: OPERAND	OFF
LED 41: TYPE	Self-Reset
LED 42: OPERAND	OFF
LED 42: TYPE	Self-Reset
LED 43: OPERAND	OFF
LED 43: TYPE	Self-Reset
LED 44: OPERAND	OFF
LED 44: TYPE	Self-Reset
LED 45: OPERAND	OFF
LED 45: TYPE	Self-Reset
LED 46: OPERAND	OFF
LED 46: TYPE	Self-Reset
LED 47: OPERAND	OFF
LED 47: TYPE	Self-Reset
LED 48: OPERAND	OFF
LED 48: TYPE	Self-Reset

SE LMO BACKUP DEJADO PS2 PACO B01\_06082020.URS  
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 VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B1\SE LMO BACKUP DEJADO PS2 PACO B01\_06082020\

DEVICE DEFINITION

DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000468  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
 DESCRIPTION: PACO B1  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

USER-PROGRAMMABLE SELF TESTS

Remote Device Off Function	Enabled
Pri Ethernet Fail Function	Disabled
Battery Fail Function	Enabled
SNTP Fail Function	Enabled
IRIG B Fail Function	Enabled

CONTROL PUSHBUTTONS

CPB 1: Function	Disabled
CPB 1: Events	Disabled
CPB 2: Function	Disabled
CPB 2: Events	Disabled
CPB 3: Function	Disabled
CPB 3: Events	Disabled

FLEX STATES

Parameter 1	OFF
Parameter 2	OFF
Parameter 3	OFF
Parameter 4	OFF
Parameter 5	OFF
Parameter 6	OFF
Parameter 7	OFF
Parameter 8	OFF
Parameter 9	OFF
Parameter 10	OFF
Parameter 11	OFF
Parameter 12	OFF
Parameter 13	OFF
Parameter 14	OFF
Parameter 15	OFF
Parameter 16	OFF
Parameter 17	OFF
Parameter 18	OFF
Parameter 19	OFF
Parameter 20	OFF
Parameter 21	OFF
Parameter 22	OFF
Parameter 23	OFF
Parameter 24	OFF
Parameter 25	OFF
Parameter 26	OFF
Parameter 27	OFF
Parameter 28	OFF
Parameter 29	OFF
Parameter 30	OFF
Parameter 31	OFF
Parameter 32	OFF
Parameter 33	OFF
Parameter 34	OFF
Parameter 35	OFF
Parameter 36	OFF
Parameter 37	OFF
Parameter 38	OFF
Parameter 39	OFF
Parameter 40	OFF
Parameter 41	OFF
Parameter 42	OFF
Parameter 43	OFF
Parameter 44	OFF
Parameter 45	OFF
Parameter 46	OFF
Parameter 47	OFF
Parameter 48	OFF
Parameter 49	OFF
Parameter 50	OFF
Parameter 51	OFF
Parameter 52	OFF
Parameter 53	OFF
Parameter 54	OFF
Parameter 55	OFF

SE LMO BACKUP DEJADO PS2 PACO B01\_06082020.URS  
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VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B1\SE LMO BACKUP DEJADO PS2 PACO B01\_06082020\

DEVICE DEFINITION

DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
VERSION: 5.5X  
UR SERIAL NUMBER: AABC08000468  
SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
DESCRIPTION: PACO B1  
TEXT COLOR  
ASSOCIATED DEVICE: (NONE)

FLEX STATES (continued from last page)

Parameter 56	OFF
Parameter 57	OFF
Parameter 58	OFF
Parameter 59	OFF
Parameter 60	OFF
Parameter 61	OFF
Parameter 62	OFF
Parameter 63	OFF
Parameter 64	OFF
Parameter 65	OFF
Parameter 66	OFF
Parameter 67	OFF
Parameter 68	OFF
Parameter 69	OFF
Parameter 70	OFF
Parameter 71	OFF
Parameter 72	OFF
Parameter 73	OFF
Parameter 74	OFF
Parameter 75	OFF
Parameter 76	OFF
Parameter 77	OFF
Parameter 78	OFF
Parameter 79	OFF
Parameter 80	OFF
Parameter 81	OFF
Parameter 82	OFF
Parameter 83	OFF
Parameter 84	OFF
Parameter 85	OFF
Parameter 86	OFF
Parameter 87	OFF
Parameter 88	OFF
Parameter 89	OFF
Parameter 90	OFF
Parameter 91	OFF
Parameter 92	OFF
Parameter 93	OFF
Parameter 94	OFF
Parameter 95	OFF
Parameter 96	OFF
Parameter 97	OFF
Parameter 98	OFF
Parameter 99	OFF
Parameter 100	OFF
Parameter 101	OFF
Parameter 102	OFF
Parameter 103	OFF
Parameter 104	OFF
Parameter 105	OFF
Parameter 106	OFF
Parameter 107	OFF
Parameter 108	OFF
Parameter 109	OFF
Parameter 110	OFF
Parameter 111	OFF
Parameter 112	OFF
Parameter 113	OFF
Parameter 114	OFF
Parameter 115	OFF
Parameter 116	OFF
Parameter 117	OFF
Parameter 118	OFF
Parameter 119	OFF
Parameter 120	OFF
Parameter 121	OFF
Parameter 122	OFF
Parameter 123	OFF
Parameter 124	OFF
Parameter 125	OFF
Parameter 126	OFF

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VERSION: 5.5X  
UR SERIAL NUMBER: AABC08000468  
SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
DESCRIPTION: PACO B1  
TEXT COLOR  
ASSOCIATED DEVICE: (NONE)

FLEX STATES (continued from last page)

Parameter 127	OFF
Parameter 128	OFF
Parameter 129	OFF
Parameter 130	OFF
Parameter 131	OFF
Parameter 132	OFF
Parameter 133	OFF
Parameter 134	OFF
Parameter 135	OFF
Parameter 136	OFF
Parameter 137	OFF
Parameter 138	OFF
Parameter 139	OFF
Parameter 140	OFF
Parameter 141	OFF
Parameter 142	OFF
Parameter 143	OFF
Parameter 144	OFF
Parameter 145	OFF
Parameter 146	OFF
Parameter 147	OFF
Parameter 148	OFF
Parameter 149	OFF
Parameter 150	OFF
Parameter 151	OFF
Parameter 152	OFF
Parameter 153	OFF
Parameter 154	OFF
Parameter 155	OFF
Parameter 156	OFF
Parameter 157	OFF
Parameter 158	OFF
Parameter 159	OFF
Parameter 160	OFF
Parameter 161	OFF
Parameter 162	OFF
Parameter 163	OFF
Parameter 164	OFF
Parameter 165	OFF
Parameter 166	OFF
Parameter 167	OFF
Parameter 168	OFF
Parameter 169	OFF
Parameter 170	OFF
Parameter 171	OFF
Parameter 172	OFF
Parameter 173	OFF
Parameter 174	OFF
Parameter 175	OFF
Parameter 176	OFF
Parameter 177	OFF
Parameter 178	OFF
Parameter 179	OFF
Parameter 180	OFF
Parameter 181	OFF
Parameter 182	OFF
Parameter 183	OFF
Parameter 184	OFF
Parameter 185	OFF
Parameter 186	OFF
Parameter 187	OFF
Parameter 188	OFF
Parameter 189	OFF
Parameter 190	OFF
Parameter 191	OFF
Parameter 192	OFF
Parameter 193	OFF
Parameter 194	OFF
Parameter 195	OFF
Parameter 196	OFF
Parameter 197	OFF

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 DESCRIPTION: PACO B1  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

FLEX STATES (continued from last page)

Parameter 198	OFF
Parameter 199	OFF
Parameter 200	OFF
Parameter 201	OFF
Parameter 202	OFF
Parameter 203	OFF
Parameter 204	OFF
Parameter 205	OFF
Parameter 206	OFF
Parameter 207	OFF
Parameter 208	OFF
Parameter 209	OFF
Parameter 210	OFF
Parameter 211	OFF
Parameter 212	OFF
Parameter 213	OFF
Parameter 214	OFF
Parameter 215	OFF
Parameter 216	OFF
Parameter 217	OFF
Parameter 218	OFF
Parameter 219	OFF
Parameter 220	OFF
Parameter 221	OFF
Parameter 222	OFF
Parameter 223	OFF
Parameter 224	OFF
Parameter 225	OFF
Parameter 226	OFF
Parameter 227	OFF
Parameter 228	OFF
Parameter 229	OFF
Parameter 230	OFF
Parameter 231	OFF
Parameter 232	OFF
Parameter 233	OFF
Parameter 234	OFF
Parameter 235	OFF
Parameter 236	OFF
Parameter 237	OFF
Parameter 238	OFF
Parameter 239	OFF
Parameter 240	OFF
Parameter 241	OFF
Parameter 242	OFF
Parameter 243	OFF
Parameter 244	OFF
Parameter 245	OFF
Parameter 246	OFF
Parameter 247	OFF
Parameter 248	OFF
Parameter 249	OFF
Parameter 250	OFF
Parameter 251	OFF
Parameter 252	OFF
Parameter 253	OFF
Parameter 254	OFF
Parameter 255	OFF
Parameter 256	OFF

USER-DEFINABLE DISPLAYS

USER DISPLAY 1: Top Line	LINEA OVALLE 1
USER DISPLAY 1: Bottom Line	21-67N-79
USER DISPLAY 1: Item 1	0
USER DISPLAY 1: Item 2	0
USER DISPLAY 1: Item 3	0
USER DISPLAY 1: Item 4	0
USER DISPLAY 1: Item 5	0
USER DISPLAY 2: Top Line	Vab::~
USER DISPLAY 2: Bottom Line	Ang::~
USER DISPLAY 2: Item 1	6671



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DEVICES

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 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
 DESCRIPTION: PACO B1  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

USER-DEFINABLE DISPLAYS (continued from last page)

USER DISPLAY 2: Item 2	6679
USER DISPLAY 2: Item 3	0
USER DISPLAY 2: Item 4	0
USER DISPLAY 2: Item 5	0
USER DISPLAY 3: Top Line	Vbc::~
USER DISPLAY 3: Bottom Line	Ang::~
USER DISPLAY 3: Item 1	6673
USER DISPLAY 3: Item 2	6682
USER DISPLAY 3: Item 3	0
USER DISPLAY 3: Item 4	0
USER DISPLAY 3: Item 5	0
USER DISPLAY 4: Top Line	Vca::~
USER DISPLAY 4: Bottom Line	Ang::~
USER DISPLAY 4: Item 1	6675
USER DISPLAY 4: Item 2	6685
USER DISPLAY 4: Item 3	0
USER DISPLAY 4: Item 4	0
USER DISPLAY 4: Item 5	0
USER DISPLAY 5: Top Line	Ia::~
USER DISPLAY 5: Bottom Line	Ang::~
USER DISPLAY 5: Item 1	6152
USER DISPLAY 5: Item 2	6154
USER DISPLAY 5: Item 3	0
USER DISPLAY 5: Item 4	0
USER DISPLAY 5: Item 5	0
USER DISPLAY 6: Top Line	Ib::~
USER DISPLAY 6: Bottom Line	Ang::~
USER DISPLAY 6: Item 1	6155
USER DISPLAY 6: Item 2	6157
USER DISPLAY 6: Item 3	0
USER DISPLAY 6: Item 4	0
USER DISPLAY 6: Item 5	0
USER DISPLAY 7: Top Line	Ic::~
USER DISPLAY 7: Bottom Line	Ang::~
USER DISPLAY 7: Item 1	6158
USER DISPLAY 7: Item 2	6160
USER DISPLAY 7: Item 3	0
USER DISPLAY 7: Item 4	0
USER DISPLAY 7: Item 5	0
USER DISPLAY 8: Top Line	POT. ACT::~
USER DISPLAY 8: Bottom Line	POT. REC::~
USER DISPLAY 8: Item 1	7168
USER DISPLAY 8: Item 2	7176
USER DISPLAY 8: Item 3	0
USER DISPLAY 8: Item 4	0
USER DISPLAY 8: Item 5	0
USER DISPLAY 9: Top Line	LOC DE FALLA::~
USER DISPLAY 9: Bottom Line	
USER DISPLAY 9: Item 1	9061
USER DISPLAY 9: Item 2	0
USER DISPLAY 9: Item 3	0
USER DISPLAY 9: Item 4	0
USER DISPLAY 9: Item 5	0
USER DISPLAY 10: Top Line	~
USER DISPLAY 10: Bottom Line	
USER DISPLAY 10: Item 1	16800
USER DISPLAY 10: Item 2	0
USER DISPLAY 10: Item 3	0
USER DISPLAY 10: Item 4	0
USER DISPLAY 10: Item 5	0
USER DISPLAY 11: Top Line	
USER DISPLAY 11: Bottom Line	
USER DISPLAY 11: Item 1	0
USER DISPLAY 11: Item 2	0
USER DISPLAY 11: Item 3	0
USER DISPLAY 11: Item 4	0
USER DISPLAY 11: Item 5	0
USER DISPLAY 12: Top Line	
USER DISPLAY 12: Bottom Line	
USER DISPLAY 12: Item 1	0
USER DISPLAY 12: Item 2	0

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DEVICE DEFINITION

DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000468  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
 DESCRIPTION: PACO B1  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

USER-DEFINABLE DISPLAYS (continued from last page)

USER DISPLAY 12: Item 3	0
USER DISPLAY 12: Item 4	0
USER DISPLAY 12: Item 5	0
USER DISPLAY 13: Top Line	
USER DISPLAY 13: Bottom Line	
USER DISPLAY 13: Item 1	0
USER DISPLAY 13: Item 2	0
USER DISPLAY 13: Item 3	0
USER DISPLAY 13: Item 4	0
USER DISPLAY 13: Item 5	0
USER DISPLAY 14: Top Line	
USER DISPLAY 14: Bottom Line	
USER DISPLAY 14: Item 1	0
USER DISPLAY 14: Item 2	0
USER DISPLAY 14: Item 3	0
USER DISPLAY 14: Item 4	0
USER DISPLAY 14: Item 5	0
USER DISPLAY 15: Top Line	
USER DISPLAY 15: Bottom Line	
USER DISPLAY 15: Item 1	0
USER DISPLAY 15: Item 2	0
USER DISPLAY 15: Item 3	0
USER DISPLAY 15: Item 4	0
USER DISPLAY 15: Item 5	0
USER DISPLAY 16: Top Line	
USER DISPLAY 16: Bottom Line	
USER DISPLAY 16: Item 1	0
USER DISPLAY 16: Item 2	0
USER DISPLAY 16: Item 3	0
USER DISPLAY 16: Item 4	0
USER DISPLAY 16: Item 5	0
Invoke and Scroll	ON

INSTALLATION

Relay Name	21-67N-79
------------	-----------

SYSTEM SETUP

AC INPUTS

CURRENT

CT F1: Phase CT Primary	150 A
CT F1: Phase CT Secondary	5 A
CT F1: Ground CT Primary	150 A
CT F1: Ground CT Secondary	5 A

VOLTAGE

VT F5: Phase VT Connection	Wye
VT F5: Phase VT Secondary	66.4 V
VT F5: Phase VT Ratio	600.00 :1
VT F5: Auxiliary VT Connection	Vag
VT F5: Auxiliary VT Secondary	66.4 V
VT F5: Auxiliary VT Ratio	1.00 :1

POWER SYSTEM

Nominal Frequency	50 Hz
Phase Rotation	ABC
Frequency And Phase Reference	SRC 1 (SRC 1)
Frequency Tracking Function	Enabled

SIGNAL SOURCES

SOURCE 1: Name	SRC 1
SOURCE 1: Phase CT	F1
SOURCE 1: Ground CT	F1
SOURCE 1: Phase VT	F5
SOURCE 1: Auxiliary VT	None
SOURCE 2: Name	SRC 2
SOURCE 2: Phase CT	None
SOURCE 2: Ground CT	None
SOURCE 2: Phase VT	None
SOURCE 2: Auxiliary VT	None

BREAKERS

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 VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B1\SE LMO BACKUP DEJADO PS2 PACO B01\_06082020\

## DEVICE DEFINITION

## DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000468  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
 DESCRIPTION: PACO B1  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

BREAKERS (continued from last page)

Breaker 1 Function	Enabled
Breaker 1 Push Button Control	OFF
Breaker 1 Name	52B1
Breaker 1 Mode	3-Pole
Breaker 1 Open	OFF
Breaker 1 Block Open	OFF
Breaker 1 Close	OFF
Breaker 1 Block Close	OFF
Breaker 1 Phase A/3-Pole Closed	52B1 CERRADO On(H1a)
Breaker 1 Phase A/3-Pole Opened	52B1 CERRADO Off(H1a)
Breaker 1 Phase B Closed	OFF
Breaker 1 Phase B Opened	OFF
Breaker 1 Phase C Closed	OFF
Breaker 1 Phase C Opened	OFF
Breaker 1 Toperate	0.070 s
Breaker 1 External Alarm	OFF
Breaker 1 Alarm Delay	0.000 s
Breaker 1 Manual Close Recal Time	0.000 s
Breaker 1 Out Of Service	OFF
Breaker 1 Events	Enabled
Breaker 2 Function	Disabled
Breaker 2 Push Button Control	OFF
Breaker 2 Name	Bkr 2
Breaker 2 Mode	3-Pole
Breaker 2 Open	OFF
Breaker 2 Block Open	OFF
Breaker 2 Close	OFF
Breaker 2 Block Close	OFF
Breaker 2 Phase A/3-Pole Closed	OFF
Breaker 2 Phase A/3-Pole Opened	OFF
Breaker 2 Phase B Closed	OFF
Breaker 2 Phase B Opened	OFF
Breaker 2 Phase C Closed	OFF
Breaker 2 Phase C Opened	OFF
Breaker 2 Toperate	0.070 s
Breaker 2 External Alarm	OFF
Breaker 2 Alarm Delay	0.000 s
Breaker 2 Manual Close Recal Time	0.000 s
Breaker 2 Out Of Service	OFF
Breaker 2 Events	Disabled

SWITCHES

Switch 1 Function	Disabled
Switch 1 Name	SW 1
Switch 1 Mode	3-Pole
Switch 1 Open	OFF
Switch 1 Block Open	OFF
Switch 1 Close	OFF
Switch 1 Block Close	OFF
Switch 1 Phase A/3 Pole Closed	OFF
Switch 1 Phase A/3 Pole Opened	OFF
Switch 1 Phase B Closed	OFF
Switch 1 Phase B Opened	OFF
Switch 1 Phase C Closed	OFF
Switch 1 Phase C Opened	OFF
Switch 1 Toperate	0.070 s
Switch 1 Alarm Delay	0.000 s
Switch 1 Events	Disabled
Switch 2 Function	Disabled
Switch 2 Name	SW 2
Switch 2 Mode	3-Pole
Switch 2 Open	OFF
Switch 2 Block Open	OFF
Switch 2 Close	OFF
Switch 2 Block Close	OFF
Switch 2 Phase A/3 Pole Closed	OFF
Switch 2 Phase A/3 Pole Opened	OFF
Switch 2 Phase B Closed	OFF
Switch 2 Phase B Opened	OFF
Switch 2 Phase C Closed	OFF
Switch 2 Phase C Opened	OFF

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 VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B1\SE LMO BACKUP DEJADO PS2 PACO B01\_06082020\

## DEVICE DEFINITION

## DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000468  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
 DESCRIPTION: PACO B1  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

## SWITCHES (continued from last page)

Switch 2 Operate	0.070 s
Switch 2 Alarm Delay	0.000 s
Switch 2 Events	Disabled
Switch 3 Function	Disabled
Switch 3 Name	SW 3
Switch 3 Mode	3-Pole
Switch 3 Open	OFF
Switch 3 Block Open	OFF
Switch 3 Close	OFF
Switch 3 Block Close	OFF
Switch 3 Phase A/3 Pole Closed	OFF
Switch 3 Phase A/3 Pole Opened	OFF
Switch 3 Phase B Closed	OFF
Switch 3 Phase B Opened	OFF
Switch 3 Phase C Closed	OFF
Switch 3 Phase C Opened	OFF
Switch 3 Operate	0.070 s
Switch 3 Alarm Delay	0.000 s
Switch 3 Events	Disabled
Switch 4 Function	Disabled
Switch 4 Name	SW 4
Switch 4 Mode	3-Pole
Switch 4 Open	OFF
Switch 4 Block Open	OFF
Switch 4 Close	OFF
Switch 4 Block Close	OFF
Switch 4 Phase A/3 Pole Closed	OFF
Switch 4 Phase A/3 Pole Opened	OFF
Switch 4 Phase B Closed	OFF
Switch 4 Phase B Opened	OFF
Switch 4 Phase C Closed	OFF
Switch 4 Phase C Opened	OFF
Switch 4 Operate	0.070 s
Switch 4 Alarm Delay	0.000 s
Switch 4 Events	Disabled
Switch 5 Function	Disabled
Switch 5 Name	SW 5
Switch 5 Mode	3-Pole
Switch 5 Open	OFF
Switch 5 Block Open	OFF
Switch 5 Close	OFF
Switch 5 Block Close	OFF
Switch 5 Phase A/3 Pole Closed	OFF
Switch 5 Phase A/3 Pole Opened	OFF
Switch 5 Phase B Closed	OFF
Switch 5 Phase B Opened	OFF
Switch 5 Phase C Closed	OFF
Switch 5 Phase C Opened	OFF
Switch 5 Operate	0.070 s
Switch 5 Alarm Delay	0.000 s
Switch 5 Events	Disabled
Switch 6 Function	Disabled
Switch 6 Name	SW 6
Switch 6 Mode	3-Pole
Switch 6 Open	OFF
Switch 6 Block Open	OFF
Switch 6 Close	OFF
Switch 6 Block Close	OFF
Switch 6 Phase A/3 Pole Closed	OFF
Switch 6 Phase A/3 Pole Opened	OFF
Switch 6 Phase B Closed	OFF
Switch 6 Phase B Opened	OFF
Switch 6 Phase C Closed	OFF
Switch 6 Phase C Opened	OFF
Switch 6 Operate	0.070 s
Switch 6 Alarm Delay	0.000 s
Switch 6 Events	Disabled
Switch 7 Function	Disabled
Switch 7 Name	SW 7
Switch 7 Mode	3-Pole
Switch 7 Open	OFF

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 VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B1\SE LMO BACKUP DEJADO PS2 PACO B01\_06082020\

DEVICE DEFINITION

DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000468  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
 DESCRIPTION: PACO B1  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

SWITCHES (continued from last page)

Switch 7 Block Open	OFF
Switch 7 Close	OFF
Switch 7 Block Close	OFF
Switch 7 Phase A/3 Pole Closed	OFF
Switch 7 Phase A/3 Pole Opened	OFF
Switch 7 Phase B Closed	OFF
Switch 7 Phase B Opened	OFF
Switch 7 Phase C Closed	OFF
Switch 7 Phase C Opened	OFF
Switch 7 Toperate	0.070 s
Switch 7 Alarm Delay	0.000 s
Switch 7 Events	Disabled
Switch 8 Function	Disabled
Switch 8 Name	SW 8
Switch 8 Mode	3-Pole
Switch 8 Open	OFF
Switch 8 Block Open	OFF
Switch 8 Close	OFF
Switch 8 Block Close	OFF
Switch 8 Phase A/3 Pole Closed	OFF
Switch 8 Phase A/3 Pole Opened	OFF
Switch 8 Phase B Closed	OFF
Switch 8 Phase B Opened	OFF
Switch 8 Phase C Closed	OFF
Switch 8 Phase C Opened	OFF
Switch 8 Toperate	0.070 s
Switch 8 Alarm Delay	0.000 s
Switch 8 Events	Disabled

FLEXCURVES

FLEXCURVE A

0.00 x PKP	0 ms
0.05 x PKP	0 ms
0.10 x PKP	0 ms
0.15 x PKP	0 ms
0.20 x PKP	0 ms
0.25 x PKP	0 ms
0.30 x PKP	0 ms
0.35 x PKP	0 ms
0.40 x PKP	0 ms
0.45 x PKP	0 ms
0.48 x PKP	0 ms
0.50 x PKP	0 ms
0.52 x PKP	0 ms
0.54 x PKP	0 ms
0.56 x PKP	0 ms
0.58 x PKP	0 ms
0.60 x PKP	0 ms
0.62 x PKP	0 ms
0.64 x PKP	0 ms
0.66 x PKP	0 ms
0.68 x PKP	0 ms
0.70 x PKP	0 ms
0.72 x PKP	0 ms
0.74 x PKP	0 ms
0.76 x PKP	0 ms
0.78 x PKP	0 ms
0.80 x PKP	0 ms
0.82 x PKP	0 ms
0.84 x PKP	0 ms
0.86 x PKP	0 ms
0.88 x PKP	0 ms
0.90 x PKP	0 ms
0.91 x PKP	0 ms
0.92 x PKP	0 ms
0.93 x PKP	0 ms
0.94 x PKP	0 ms
0.95 x PKP	0 ms
0.96 x PKP	0 ms
0.97 x PKP	0 ms
0.98 x PKP	0 ms

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VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B1\SE LMO BACKUP DEJADO PS2 PACO B01\_06082020\  
DEVICE DEFINITION  
DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
VERSION: 5.5X  
UR SERIAL NUMBER: AABC08000468  
SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
DESCRIPTION: PACO B1  
TEXT COLOR  
ASSOCIATED DEVICE: (NONE)

FLEXCURVE A (continued from last page)

1.03 x PKP	0 ms
1.05 x PKP	0 ms
1.10 x PKP	0 ms
1.20 x PKP	0 ms
1.30 x PKP	0 ms
1.40 x PKP	0 ms
1.50 x PKP	0 ms
1.60 x PKP	0 ms
1.70 x PKP	0 ms
1.80 x PKP	0 ms
1.90 x PKP	0 ms
2.00 x PKP	0 ms
2.10 x PKP	0 ms
2.20 x PKP	0 ms
2.30 x PKP	0 ms
2.40 x PKP	0 ms
2.50 x PKP	0 ms
2.60 x PKP	0 ms
2.70 x PKP	0 ms
2.80 x PKP	0 ms
2.90 x PKP	0 ms
3.00 x PKP	0 ms
3.10 x PKP	0 ms
3.20 x PKP	0 ms
3.30 x PKP	0 ms
3.40 x PKP	0 ms
3.50 x PKP	0 ms
3.60 x PKP	0 ms
3.70 x PKP	0 ms
3.80 x PKP	0 ms
3.90 x PKP	0 ms
4.00 x PKP	0 ms
4.10 x PKP	0 ms
4.20 x PKP	0 ms
4.30 x PKP	0 ms
4.40 x PKP	0 ms
4.50 x PKP	0 ms
4.60 x PKP	0 ms
4.70 x PKP	0 ms
4.80 x PKP	0 ms
4.90 x PKP	0 ms
5.00 x PKP	0 ms
5.10 x PKP	0 ms
5.20 x PKP	0 ms
5.30 x PKP	0 ms
5.40 x PKP	0 ms
5.50 x PKP	0 ms
5.60 x PKP	0 ms
5.70 x PKP	0 ms
5.80 x PKP	0 ms
5.90 x PKP	0 ms
6.00 x PKP	0 ms
6.50 x PKP	0 ms
7.00 x PKP	0 ms
7.50 x PKP	0 ms
8.00 x PKP	0 ms
8.50 x PKP	0 ms
9.00 x PKP	0 ms
9.50 x PKP	0 ms
10.00 x PKP	0 ms
10.50 x PKP	0 ms
11.00 x PKP	0 ms
11.50 x PKP	0 ms
12.00 x PKP	0 ms
12.50 x PKP	0 ms
13.00 x PKP	0 ms
13.50 x PKP	0 ms
14.00 x PKP	0 ms
14.50 x PKP	0 ms
15.00 x PKP	0 ms
15.50 x PKP	0 ms

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 VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B1\SE LMO BACKUP DEJADO PS2 PACO B01\_06082020\

## DEVICE DEFINITION

## DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000468  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
 DESCRIPTION: PACO B1  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

## FLEXCURVE A (continued from last page)

16.00 x PKP	0 ms
16.50 x PKP	0 ms
17.00 x PKP	0 ms
17.50 x PKP	0 ms
18.00 x PKP	0 ms
18.50 x PKP	0 ms
19.00 x PKP	0 ms
19.50 x PKP	0 ms
20.00 x PKP	0 ms

## FLEXCURVE B

0.00 x PKP	0 ms
0.05 x PKP	0 ms
0.10 x PKP	0 ms
0.15 x PKP	0 ms
0.20 x PKP	0 ms
0.25 x PKP	0 ms
0.30 x PKP	0 ms
0.35 x PKP	0 ms
0.40 x PKP	0 ms
0.45 x PKP	0 ms
0.48 x PKP	0 ms
0.50 x PKP	0 ms
0.52 x PKP	0 ms
0.54 x PKP	0 ms
0.56 x PKP	0 ms
0.58 x PKP	0 ms
0.60 x PKP	0 ms
0.62 x PKP	0 ms
0.64 x PKP	0 ms
0.66 x PKP	0 ms
0.68 x PKP	0 ms
0.70 x PKP	0 ms
0.72 x PKP	0 ms
0.74 x PKP	0 ms
0.76 x PKP	0 ms
0.78 x PKP	0 ms
0.80 x PKP	0 ms
0.82 x PKP	0 ms
0.84 x PKP	0 ms
0.86 x PKP	0 ms
0.88 x PKP	0 ms
0.90 x PKP	0 ms
0.91 x PKP	0 ms
0.92 x PKP	0 ms
0.93 x PKP	0 ms
0.94 x PKP	0 ms
0.95 x PKP	0 ms
0.96 x PKP	0 ms
0.97 x PKP	0 ms
0.98 x PKP	0 ms
1.03 x PKP	0 ms
1.05 x PKP	0 ms
1.10 x PKP	0 ms
1.20 x PKP	0 ms
1.30 x PKP	0 ms
1.40 x PKP	0 ms
1.50 x PKP	0 ms
1.60 x PKP	0 ms
1.70 x PKP	0 ms
1.80 x PKP	0 ms
1.90 x PKP	0 ms
2.00 x PKP	0 ms
2.10 x PKP	0 ms
2.20 x PKP	0 ms
2.30 x PKP	0 ms
2.40 x PKP	0 ms
2.50 x PKP	0 ms
2.60 x PKP	0 ms
2.70 x PKP	0 ms
2.80 x PKP	0 ms

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VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B1\SE LMO BACKUP DEJADO PS2 PACO B01\_06082020\

DEVICE DEFINITION  
DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
VERSION: 5.5X  
UR SERIAL NUMBER: AABC08000468  
SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
DESCRIPTION: PACO B1  
TEXT COLOR  
ASSOCIATED DEVICE: (NONE)

---

FLEXCURVE B (continued from last page)

2.90 x PKP	0 ms
3.00 x PKP	0 ms
3.10 x PKP	0 ms
3.20 x PKP	0 ms
3.30 x PKP	0 ms
3.40 x PKP	0 ms
3.50 x PKP	0 ms
3.60 x PKP	0 ms
3.70 x PKP	0 ms
3.80 x PKP	0 ms
3.90 x PKP	0 ms
4.00 x PKP	0 ms
4.10 x PKP	0 ms
4.20 x PKP	0 ms
4.30 x PKP	0 ms
4.40 x PKP	0 ms
4.50 x PKP	0 ms
4.60 x PKP	0 ms
4.70 x PKP	0 ms
4.80 x PKP	0 ms
4.90 x PKP	0 ms
5.00 x PKP	0 ms
5.10 x PKP	0 ms
5.20 x PKP	0 ms
5.30 x PKP	0 ms
5.40 x PKP	0 ms
5.50 x PKP	0 ms
5.60 x PKP	0 ms
5.70 x PKP	0 ms
5.80 x PKP	0 ms
5.90 x PKP	0 ms
6.00 x PKP	0 ms
6.50 x PKP	0 ms
7.00 x PKP	0 ms
7.50 x PKP	0 ms
8.00 x PKP	0 ms
8.50 x PKP	0 ms
9.00 x PKP	0 ms
9.50 x PKP	0 ms
10.00 x PKP	0 ms
10.50 x PKP	0 ms
11.00 x PKP	0 ms
11.50 x PKP	0 ms
12.00 x PKP	0 ms
12.50 x PKP	0 ms
13.00 x PKP	0 ms
13.50 x PKP	0 ms
14.00 x PKP	0 ms
14.50 x PKP	0 ms
15.00 x PKP	0 ms
15.50 x PKP	0 ms
16.00 x PKP	0 ms
16.50 x PKP	0 ms
17.00 x PKP	0 ms
17.50 x PKP	0 ms
18.00 x PKP	0 ms
18.50 x PKP	0 ms
19.00 x PKP	0 ms
19.50 x PKP	0 ms
20.00 x PKP	0 ms

---

FLEXCURVE C

0.00 x PKP	0 ms
0.05 x PKP	0 ms
0.10 x PKP	0 ms
0.15 x PKP	0 ms
0.20 x PKP	0 ms
0.25 x PKP	0 ms
0.30 x PKP	0 ms
0.35 x PKP	0 ms
0.40 x PKP	0 ms



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VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B1\SE LMO BACKUP DEJADO PS2 PACO B01\_06082020\

DEVICE DEFINITION

DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
VERSION: 5.5X  
UR SERIAL NUMBER: AABC08000468  
SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
DESCRIPTION: PACO B1  
TEXT COLOR  
ASSOCIATED DEVICE: (NONE)

FLEXCURVE C (continued from last page)

0.45 x PKP	0 ms
0.48 x PKP	0 ms
0.50 x PKP	0 ms
0.52 x PKP	0 ms
0.54 x PKP	0 ms
0.56 x PKP	0 ms
0.58 x PKP	0 ms
0.60 x PKP	0 ms
0.62 x PKP	0 ms
0.64 x PKP	0 ms
0.66 x PKP	0 ms
0.68 x PKP	0 ms
0.70 x PKP	0 ms
0.72 x PKP	0 ms
0.74 x PKP	0 ms
0.76 x PKP	0 ms
0.78 x PKP	0 ms
0.80 x PKP	0 ms
0.82 x PKP	0 ms
0.84 x PKP	0 ms
0.86 x PKP	0 ms
0.88 x PKP	0 ms
0.90 x PKP	0 ms
0.91 x PKP	0 ms
0.92 x PKP	0 ms
0.93 x PKP	0 ms
0.94 x PKP	0 ms
0.95 x PKP	0 ms
0.96 x PKP	0 ms
0.97 x PKP	0 ms
0.98 x PKP	0 ms
1.03 x PKP	0 ms
1.05 x PKP	0 ms
1.10 x PKP	0 ms
1.20 x PKP	0 ms
1.30 x PKP	0 ms
1.40 x PKP	0 ms
1.50 x PKP	0 ms
1.60 x PKP	0 ms
1.70 x PKP	0 ms
1.80 x PKP	0 ms
1.90 x PKP	0 ms
2.00 x PKP	0 ms
2.10 x PKP	0 ms
2.20 x PKP	0 ms
2.30 x PKP	0 ms
2.40 x PKP	0 ms
2.50 x PKP	0 ms
2.60 x PKP	0 ms
2.70 x PKP	0 ms
2.80 x PKP	0 ms
2.90 x PKP	0 ms
3.00 x PKP	0 ms
3.10 x PKP	0 ms
3.20 x PKP	0 ms
3.30 x PKP	0 ms
3.40 x PKP	0 ms
3.50 x PKP	0 ms
3.60 x PKP	0 ms
3.70 x PKP	0 ms
3.80 x PKP	0 ms
3.90 x PKP	0 ms
4.00 x PKP	0 ms
4.10 x PKP	0 ms
4.20 x PKP	0 ms
4.30 x PKP	0 ms
4.40 x PKP	0 ms
4.50 x PKP	0 ms
4.60 x PKP	0 ms
4.70 x PKP	0 ms
4.80 x PKP	0 ms

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 VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B1\SE LMO BACKUP DEJADO PS2 PACO B01\_06082020\

## DEVICE DEFINITION

## DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000468  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
 DESCRIPTION: PACO B1  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

## FLEXCURVE C (continued from last page)

4.90 x PKP	0 ms
5.00 x PKP	0 ms
5.10 x PKP	0 ms
5.20 x PKP	0 ms
5.30 x PKP	0 ms
5.40 x PKP	0 ms
5.50 x PKP	0 ms
5.60 x PKP	0 ms
5.70 x PKP	0 ms
5.80 x PKP	0 ms
5.90 x PKP	0 ms
6.00 x PKP	0 ms
6.50 x PKP	0 ms
7.00 x PKP	0 ms
7.50 x PKP	0 ms
8.00 x PKP	0 ms
8.50 x PKP	0 ms
9.00 x PKP	0 ms
9.50 x PKP	0 ms
10.00 x PKP	0 ms
10.50 x PKP	0 ms
11.00 x PKP	0 ms
11.50 x PKP	0 ms
12.00 x PKP	0 ms
12.50 x PKP	0 ms
13.00 x PKP	0 ms
13.50 x PKP	0 ms
14.00 x PKP	0 ms
14.50 x PKP	0 ms
15.00 x PKP	0 ms
15.50 x PKP	0 ms
16.00 x PKP	0 ms
16.50 x PKP	0 ms
17.00 x PKP	0 ms
17.50 x PKP	0 ms
18.00 x PKP	0 ms
18.50 x PKP	0 ms
19.00 x PKP	0 ms
19.50 x PKP	0 ms
20.00 x PKP	0 ms

## FLEXCURVE D

0.00 x PKP	0 ms
0.05 x PKP	0 ms
0.10 x PKP	0 ms
0.15 x PKP	0 ms
0.20 x PKP	0 ms
0.25 x PKP	0 ms
0.30 x PKP	0 ms
0.35 x PKP	0 ms
0.40 x PKP	0 ms
0.45 x PKP	0 ms
0.48 x PKP	0 ms
0.50 x PKP	0 ms
0.52 x PKP	0 ms
0.54 x PKP	0 ms
0.56 x PKP	0 ms
0.58 x PKP	0 ms
0.60 x PKP	0 ms
0.62 x PKP	0 ms
0.64 x PKP	0 ms
0.66 x PKP	0 ms
0.68 x PKP	0 ms
0.70 x PKP	0 ms
0.72 x PKP	0 ms
0.74 x PKP	0 ms
0.76 x PKP	0 ms
0.78 x PKP	0 ms
0.80 x PKP	0 ms
0.82 x PKP	0 ms
0.84 x PKP	0 ms

SE LMO BACKUP DEJADO PS2 PACO B01\_06082020.URS  
 C:\USERS\MFIGUEROA\DOCUMENTS\DOCUMENTOS PC ANTERIOR\OMICRON 2.0\VERIFICACIONES\SE LOS MOLLES\  
 VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B1\SE LMO BACKUP DEJADO PS2 PACO B01\_06082020\  
 DEVICE DEFINITION  
 DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000468  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
 DESCRIPTION: PACO B1  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

FLEXCURVE D (continued from last page)

0.86 x PKP	0 ms
0.88 x PKP	0 ms
0.90 x PKP	0 ms
0.91 x PKP	0 ms
0.92 x PKP	0 ms
0.93 x PKP	0 ms
0.94 x PKP	0 ms
0.95 x PKP	0 ms
0.96 x PKP	0 ms
0.97 x PKP	0 ms
0.98 x PKP	0 ms
1.03 x PKP	0 ms
1.05 x PKP	0 ms
1.10 x PKP	0 ms
1.20 x PKP	0 ms
1.30 x PKP	0 ms
1.40 x PKP	0 ms
1.50 x PKP	0 ms
1.60 x PKP	0 ms
1.70 x PKP	0 ms
1.80 x PKP	0 ms
1.90 x PKP	0 ms
2.00 x PKP	0 ms
2.10 x PKP	0 ms
2.20 x PKP	0 ms
2.30 x PKP	0 ms
2.40 x PKP	0 ms
2.50 x PKP	0 ms
2.60 x PKP	0 ms
2.70 x PKP	0 ms
2.80 x PKP	0 ms
2.90 x PKP	0 ms
3.00 x PKP	0 ms
3.10 x PKP	0 ms
3.20 x PKP	0 ms
3.30 x PKP	0 ms
3.40 x PKP	0 ms
3.50 x PKP	0 ms
3.60 x PKP	0 ms
3.70 x PKP	0 ms
3.80 x PKP	0 ms
3.90 x PKP	0 ms
4.00 x PKP	0 ms
4.10 x PKP	0 ms
4.20 x PKP	0 ms
4.30 x PKP	0 ms
4.40 x PKP	0 ms
4.50 x PKP	0 ms
4.60 x PKP	0 ms
4.70 x PKP	0 ms
4.80 x PKP	0 ms
4.90 x PKP	0 ms
5.00 x PKP	0 ms
5.10 x PKP	0 ms
5.20 x PKP	0 ms
5.30 x PKP	0 ms
5.40 x PKP	0 ms
5.50 x PKP	0 ms
5.60 x PKP	0 ms
5.70 x PKP	0 ms
5.80 x PKP	0 ms
5.90 x PKP	0 ms
6.00 x PKP	0 ms
6.50 x PKP	0 ms
7.00 x PKP	0 ms
7.50 x PKP	0 ms
8.00 x PKP	0 ms
8.50 x PKP	0 ms
9.00 x PKP	0 ms
9.50 x PKP	0 ms
10.00 x PKP	0 ms

SE LMO BACKUP DEJADO PS2 PACO B01\_06082020.URS  
 C:\USERS\MFIGUEROA\DOCUMENTS\DOCUMENTOS PC ANTERIOR\OMICRON 2.0\VERIFICACIONES\SE LOS MOLLES\  
 VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B1\SE LMO BACKUP DEJADO PS2 PACO B01\_06082020\

## DEVICE DEFINITION

## DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000468  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
 DESCRIPTION: PACO B1  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

## FLEXCURVE D (continued from last page)

10.50 x PKP	0 ms
11.00 x PKP	0 ms
11.50 x PKP	0 ms
12.00 x PKP	0 ms
12.50 x PKP	0 ms
13.00 x PKP	0 ms
13.50 x PKP	0 ms
14.00 x PKP	0 ms
14.50 x PKP	0 ms
15.00 x PKP	0 ms
15.50 x PKP	0 ms
16.00 x PKP	0 ms
16.50 x PKP	0 ms
17.00 x PKP	0 ms
17.50 x PKP	0 ms
18.00 x PKP	0 ms
18.50 x PKP	0 ms
19.00 x PKP	0 ms
19.50 x PKP	0 ms
20.00 x PKP	0 ms

## FLEXLOGIC

## FLEXLOGIC EQUATION EDITOR

FlexLogic Entry 1	SRC1 VT FUSE FAIL OP
FlexLogic Entry 2	MCB Barra On(H3c)
FlexLogic Entry 3	OR(2)
FlexLogic Entry 4	= Falla POT (VO1)
FlexLogic Entry 5	PH DIST Z1 OP
FlexLogic Entry 6	PH DIST Z2 OP
FlexLogic Entry 7	PH DIST Z3 OP
FlexLogic Entry 8	GND DIST Z1 OP
FlexLogic Entry 9	GND DIST Z2 OP
FlexLogic Entry 10	GND DIST Z3 OP
FlexLogic Entry 11	NEUTRAL TOC1 OP
FlexLogic Entry 12	NEUTRAL IOC1 OP
FlexLogic Entry 13	OR(8)
FlexLogic Entry 14	= Fallas zonas (VO3)
FlexLogic Entry 15	RES CARG Off(H1c)
FlexLogic Entry 16	TIMER 1
FlexLogic Entry 17	= AL RES DESC (VO4)
FlexLogic Entry 18	GND DIST Z1 OP A
FlexLogic Entry 19	GND DIST Z1 OP B
FlexLogic Entry 20	GND DIST Z1 OP C
FlexLogic Entry 21	OR(3)
FlexLogic Entry 22	= INICIO79 (VO6)
FlexLogic Entry 23	P 8MW (FE 1) OP
FlexLogic Entry 24	52B1 CERRADO On(H1a)
FlexLogic Entry 25	AND(2)
FlexLogic Entry 26	= SUP79OK (VO8)
FlexLogic Entry 27	PH DIST Z1 OP
FlexLogic Entry 28	GND DIST Z1 OP
FlexLogic Entry 29	OR(2)
FlexLogic Entry 30	= AL ZONA1 (VO9)
FlexLogic Entry 31	PH DIST Z2 OP
FlexLogic Entry 32	GND DIST Z2 OP
FlexLogic Entry 33	OR(2)
FlexLogic Entry 34	= AL ZONA2 (VO10)
FlexLogic Entry 35	PH DIST Z3 OP
FlexLogic Entry 36	GND DIST Z3 OP
FlexLogic Entry 37	OR(2)
FlexLogic Entry 38	= AL ZONA 3 (VO11)
FlexLogic Entry 39	PH DIST Z1 OP
FlexLogic Entry 40	PH DIST Z2 OP
FlexLogic Entry 41	PH DIST Z3 OP
FlexLogic Entry 42	OR(3)
FlexLogic Entry 43	= TRIP 21-21 (VO80)
FlexLogic Entry 44	GND DIST Z1 OP
FlexLogic Entry 45	GND DIST Z2 OP
FlexLogic Entry 46	GND DIST Z3 OP
FlexLogic Entry 47	OR(3)
FlexLogic Entry 48	= TRIP 21-21N (VO81)

SE LMO BACKUP DEJADO PS2 PACO B01\_06082020.URS  
C:\USERS\MFIGUEROA\DOCUMENTS\DOCUMENTOS PC ANTERIOR\OMICRON 2.0\VERIFICACIONES\SE LOS MOLLES\  
VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B1\SE LMO BACKUP DEJADO PS2 PACO B01\_06082020\

DEVICE DEFINITION

DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
VERSION: 5.5X  
UR SERIAL NUMBER: AABC08000468  
SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
DESCRIPTION: PACO B1  
TEXT COLOR  
ASSOCIATED DEVICE: (NONE)

FLEXLOGIC EQUATION EDITOR (continued from last page)

FlexLogic Entry 49	NEUTRAL TOC1 OP
FlexLogic Entry 50	NEUTRAL IOC1 OP
FlexLogic Entry 51	OR(2)
FlexLogic Entry 52	= TRIP 67N (VO82)
FlexLogic Entry 53	Falla POT On (VO1)
FlexLogic Entry 54	NOT
FlexLogic Entry 55	= POT OK (VO5)
FlexLogic Entry 56	Falla POT On (VO1)
FlexLogic Entry 57	RES CARG Off(H1c)
FlexLogic Entry 58	79 HAB Off(H2a)
FlexLogic Entry 59	BLOQUEO SF6 On(H2c)
FlexLogic Entry 60	SUP 79 Off(H4a)
FlexLogic Entry 61	OR(5)
FlexLogic Entry 62	= BLOQUEO79 (VO7)
FlexLogic Entry 63	AL RES DESC On (VO4)
FlexLogic Entry 64	BLOQUEO SF6 Off(H2c)
FlexLogic Entry 65	SUP 79 On(H4a)
FlexLogic Entry 66	79 HAB On(H2a)
FlexLogic Entry 67	POT OK On (VO5)
FlexLogic Entry 68	AND(5)
FlexLogic Entry 69	= 79 OK (VO2)
FlexLogic Entry 70	END
FlexLogic Entry 71	END
FlexLogic Entry 72	END
FlexLogic Entry 73	END
FlexLogic Entry 74	END
FlexLogic Entry 75	END
FlexLogic Entry 76	END
FlexLogic Entry 77	END
FlexLogic Entry 78	END
FlexLogic Entry 79	END
FlexLogic Entry 80	END
FlexLogic Entry 81	END
FlexLogic Entry 82	END
FlexLogic Entry 83	END
FlexLogic Entry 84	END
FlexLogic Entry 85	END
FlexLogic Entry 86	END
FlexLogic Entry 87	END
FlexLogic Entry 88	END
FlexLogic Entry 89	END
FlexLogic Entry 90	END
FlexLogic Entry 91	END
FlexLogic Entry 92	END
FlexLogic Entry 93	END
FlexLogic Entry 94	END
FlexLogic Entry 95	END
FlexLogic Entry 96	END
FlexLogic Entry 97	END
FlexLogic Entry 98	END
FlexLogic Entry 99	END
FlexLogic Entry 100	END
FlexLogic Entry 101	END
FlexLogic Entry 102	END
FlexLogic Entry 103	END
FlexLogic Entry 104	END
FlexLogic Entry 105	END
FlexLogic Entry 106	END
FlexLogic Entry 107	END
FlexLogic Entry 108	END
FlexLogic Entry 109	END
FlexLogic Entry 110	END
FlexLogic Entry 111	END
FlexLogic Entry 112	END
FlexLogic Entry 113	END
FlexLogic Entry 114	END
FlexLogic Entry 115	END
FlexLogic Entry 116	END
FlexLogic Entry 117	END
FlexLogic Entry 118	END
FlexLogic Entry 119	END

SE LMO BACKUP DEJADO PS2 PACO B01\_06082020.URS  
 C:\USERS\MFIGUEROA\DOCUMENTS\DOCUMENTOS PC ANTERIOR\OMICRON 2.0\VERIFICACIONES\SE LOS MOLLES\  
 VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B1\SE LMO BACKUP DEJADO PS2 PACO B01\_06082020\  
 DEVICE DEFINITION  
 DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000468  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
 DESCRIPTION: PACO B1  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

---

FLEXLOGIC EQUATION EDITOR (continued from last page)

FlexLogic Entry 120	END
FlexLogic Entry 121	END
FlexLogic Entry 122	END
FlexLogic Entry 123	END
FlexLogic Entry 124	END
FlexLogic Entry 125	END
FlexLogic Entry 126	END
FlexLogic Entry 127	END
FlexLogic Entry 128	END
FlexLogic Entry 129	END
FlexLogic Entry 130	END
FlexLogic Entry 131	END
FlexLogic Entry 132	END
FlexLogic Entry 133	END
FlexLogic Entry 134	END
FlexLogic Entry 135	END
FlexLogic Entry 136	END
FlexLogic Entry 137	END
FlexLogic Entry 138	END
FlexLogic Entry 139	END
FlexLogic Entry 140	END
FlexLogic Entry 141	END
FlexLogic Entry 142	END
FlexLogic Entry 143	END
FlexLogic Entry 144	END
FlexLogic Entry 145	END
FlexLogic Entry 146	END
FlexLogic Entry 147	END
FlexLogic Entry 148	END
FlexLogic Entry 149	END
FlexLogic Entry 150	END
FlexLogic Entry 151	END
FlexLogic Entry 152	END
FlexLogic Entry 153	END
FlexLogic Entry 154	END
FlexLogic Entry 155	END
FlexLogic Entry 156	END
FlexLogic Entry 157	END
FlexLogic Entry 158	END
FlexLogic Entry 159	END
FlexLogic Entry 160	END
FlexLogic Entry 161	END
FlexLogic Entry 162	END
FlexLogic Entry 163	END
FlexLogic Entry 164	END
FlexLogic Entry 165	END
FlexLogic Entry 166	END
FlexLogic Entry 167	END
FlexLogic Entry 168	END
FlexLogic Entry 169	END
FlexLogic Entry 170	END
FlexLogic Entry 171	END
FlexLogic Entry 172	END
FlexLogic Entry 173	END
FlexLogic Entry 174	END
FlexLogic Entry 175	END
FlexLogic Entry 176	END
FlexLogic Entry 177	END
FlexLogic Entry 178	END
FlexLogic Entry 179	END
FlexLogic Entry 180	END
FlexLogic Entry 181	END
FlexLogic Entry 182	END
FlexLogic Entry 183	END
FlexLogic Entry 184	END
FlexLogic Entry 185	END
FlexLogic Entry 186	END
FlexLogic Entry 187	END
FlexLogic Entry 188	END
FlexLogic Entry 189	END
FlexLogic Entry 190	END

SE LMO BACKUP DEJADO PS2 PACO B01\_06082020.URS  
C:\USERS\MFIGUEROA\DOCUMENTS\DOCUMENTOS PC ANTERIOR\OMICRON 2.0\VERIFICACIONES\SE LOS MOLLES\  
VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B1\SE LMO BACKUP DEJADO PS2 PACO B01\_06082020\  
DEVICE DEFINITION  
DEVICES  
ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
VERSION: 5.5X  
UR SERIAL NUMBER: AABC08000468  
SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
DESCRIPTION: PACO B1  
TEXT COLOR  
ASSOCIATED DEVICE: (NONE)

---

FLEXLOGIC EQUATION EDITOR (continued from last page)

FlexLogic Entry 191	END
FlexLogic Entry 192	END
FlexLogic Entry 193	END
FlexLogic Entry 194	END
FlexLogic Entry 195	END
FlexLogic Entry 196	END
FlexLogic Entry 197	END
FlexLogic Entry 198	END
FlexLogic Entry 199	END
FlexLogic Entry 200	END
FlexLogic Entry 201	END
FlexLogic Entry 202	END
FlexLogic Entry 203	END
FlexLogic Entry 204	END
FlexLogic Entry 205	END
FlexLogic Entry 206	END
FlexLogic Entry 207	END
FlexLogic Entry 208	END
FlexLogic Entry 209	END
FlexLogic Entry 210	END
FlexLogic Entry 211	END
FlexLogic Entry 212	END
FlexLogic Entry 213	END
FlexLogic Entry 214	END
FlexLogic Entry 215	END
FlexLogic Entry 216	END
FlexLogic Entry 217	END
FlexLogic Entry 218	END
FlexLogic Entry 219	END
FlexLogic Entry 220	END
FlexLogic Entry 221	END
FlexLogic Entry 222	END
FlexLogic Entry 223	END
FlexLogic Entry 224	END
FlexLogic Entry 225	END
FlexLogic Entry 226	END
FlexLogic Entry 227	END
FlexLogic Entry 228	END
FlexLogic Entry 229	END
FlexLogic Entry 230	END
FlexLogic Entry 231	END
FlexLogic Entry 232	END
FlexLogic Entry 233	END
FlexLogic Entry 234	END
FlexLogic Entry 235	END
FlexLogic Entry 236	END
FlexLogic Entry 237	END
FlexLogic Entry 238	END
FlexLogic Entry 239	END
FlexLogic Entry 240	END
FlexLogic Entry 241	END
FlexLogic Entry 242	END
FlexLogic Entry 243	END
FlexLogic Entry 244	END
FlexLogic Entry 245	END
FlexLogic Entry 246	END
FlexLogic Entry 247	END
FlexLogic Entry 248	END
FlexLogic Entry 249	END
FlexLogic Entry 250	END
FlexLogic Entry 251	END
FlexLogic Entry 252	END
FlexLogic Entry 253	END
FlexLogic Entry 254	END
FlexLogic Entry 255	END
FlexLogic Entry 256	END
FlexLogic Entry 257	END
FlexLogic Entry 258	END
FlexLogic Entry 259	END
FlexLogic Entry 260	END
FlexLogic Entry 261	END

SE LMO BACKUP DEJADO PS2 PACO B01\_06082020.URS  
C:\USERS\MFIGUEROA\DOCUMENTS\DOCUMENTOS PC ANTERIOR\OMICRON 2.0\VERIFICACIONES\SE LOS MOLLES\ VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B1\SE LMO BACKUP DEJADO PS2 PACO B01\_06082020\

DEVICE DEFINITION

DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
VERSION: 5.5X  
UR SERIAL NUMBER: AABC08000468  
SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
DESCRIPTION: PACO B1  
TEXT COLOR  
ASSOCIATED DEVICE: (NONE)

FLEXLOGIC EQUATION EDITOR (continued from last page)

FlexLogic Entry 262	END
FlexLogic Entry 263	END
FlexLogic Entry 264	END
FlexLogic Entry 265	END
FlexLogic Entry 266	END
FlexLogic Entry 267	END
FlexLogic Entry 268	END
FlexLogic Entry 269	END
FlexLogic Entry 270	END
FlexLogic Entry 271	END
FlexLogic Entry 272	END
FlexLogic Entry 273	END
FlexLogic Entry 274	END
FlexLogic Entry 275	END
FlexLogic Entry 276	END
FlexLogic Entry 277	END
FlexLogic Entry 278	END
FlexLogic Entry 279	END
FlexLogic Entry 280	END
FlexLogic Entry 281	END
FlexLogic Entry 282	END
FlexLogic Entry 283	END
FlexLogic Entry 284	END
FlexLogic Entry 285	END
FlexLogic Entry 286	END
FlexLogic Entry 287	END
FlexLogic Entry 288	END
FlexLogic Entry 289	END
FlexLogic Entry 290	END
FlexLogic Entry 291	END
FlexLogic Entry 292	END
FlexLogic Entry 293	END
FlexLogic Entry 294	END
FlexLogic Entry 295	END
FlexLogic Entry 296	END
FlexLogic Entry 297	END
FlexLogic Entry 298	END
FlexLogic Entry 299	END
FlexLogic Entry 300	END
FlexLogic Entry 301	END
FlexLogic Entry 302	END
FlexLogic Entry 303	END
FlexLogic Entry 304	END
FlexLogic Entry 305	END
FlexLogic Entry 306	END
FlexLogic Entry 307	END
FlexLogic Entry 308	END
FlexLogic Entry 309	END
FlexLogic Entry 310	END
FlexLogic Entry 311	END
FlexLogic Entry 312	END
FlexLogic Entry 313	END
FlexLogic Entry 314	END
FlexLogic Entry 315	END
FlexLogic Entry 316	END
FlexLogic Entry 317	END
FlexLogic Entry 318	END
FlexLogic Entry 319	END
FlexLogic Entry 320	END
FlexLogic Entry 321	END
FlexLogic Entry 322	END
FlexLogic Entry 323	END
FlexLogic Entry 324	END
FlexLogic Entry 325	END
FlexLogic Entry 326	END
FlexLogic Entry 327	END
FlexLogic Entry 328	END
FlexLogic Entry 329	END
FlexLogic Entry 330	END
FlexLogic Entry 331	END
FlexLogic Entry 332	END



SE LMO BACKUP DEJADO PS2 PACO B01\_06082020.URS  
C:\USERS\MFIGUEROA\DOCUMENTS\DOCUMENTOS PC ANTERIOR\OMICRON 2.0\VERIFICACIONES\SE LOS MOLLES\  
VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B1\SE LMO BACKUP DEJADO PS2 PACO B01\_06082020\  
DEVICE DEFINITION  
DEVICES  
ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
VERSION: 5.5X  
UR SERIAL NUMBER: AABC08000468  
SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
DESCRIPTION: PACO B1  
TEXT COLOR  
ASSOCIATED DEVICE: (NONE)

---

FLEXLOGIC EQUATION EDITOR (continued from last page)

FlexLogic Entry 333	END
FlexLogic Entry 334	END
FlexLogic Entry 335	END
FlexLogic Entry 336	END
FlexLogic Entry 337	END
FlexLogic Entry 338	END
FlexLogic Entry 339	END
FlexLogic Entry 340	END
FlexLogic Entry 341	END
FlexLogic Entry 342	END
FlexLogic Entry 343	END
FlexLogic Entry 344	END
FlexLogic Entry 345	END
FlexLogic Entry 346	END
FlexLogic Entry 347	END
FlexLogic Entry 348	END
FlexLogic Entry 349	END
FlexLogic Entry 350	END
FlexLogic Entry 351	END
FlexLogic Entry 352	END
FlexLogic Entry 353	END
FlexLogic Entry 354	END
FlexLogic Entry 355	END
FlexLogic Entry 356	END
FlexLogic Entry 357	END
FlexLogic Entry 358	END
FlexLogic Entry 359	END
FlexLogic Entry 360	END
FlexLogic Entry 361	END
FlexLogic Entry 362	END
FlexLogic Entry 363	END
FlexLogic Entry 364	END
FlexLogic Entry 365	END
FlexLogic Entry 366	END
FlexLogic Entry 367	END
FlexLogic Entry 368	END
FlexLogic Entry 369	END
FlexLogic Entry 370	END
FlexLogic Entry 371	END
FlexLogic Entry 372	END
FlexLogic Entry 373	END
FlexLogic Entry 374	END
FlexLogic Entry 375	END
FlexLogic Entry 376	END
FlexLogic Entry 377	END
FlexLogic Entry 378	END
FlexLogic Entry 379	END
FlexLogic Entry 380	END
FlexLogic Entry 381	END
FlexLogic Entry 382	END
FlexLogic Entry 383	END
FlexLogic Entry 384	END
FlexLogic Entry 385	END
FlexLogic Entry 386	END
FlexLogic Entry 387	END
FlexLogic Entry 388	END
FlexLogic Entry 389	END
FlexLogic Entry 390	END
FlexLogic Entry 391	END
FlexLogic Entry 392	END
FlexLogic Entry 393	END
FlexLogic Entry 394	END
FlexLogic Entry 395	END
FlexLogic Entry 396	END
FlexLogic Entry 397	END
FlexLogic Entry 398	END
FlexLogic Entry 399	END
FlexLogic Entry 400	END
FlexLogic Entry 401	END
FlexLogic Entry 402	END
FlexLogic Entry 403	END

SE LMO BACKUP DEJADO PS2 PACO B01\_06082020.URS  
C:\USERS\MFIGUEROA\DOCUMENTS\DOCUMENTOS PC ANTERIOR\OMICRON 2.0\VERIFICACIONES\SE LOS MOLLES\  
VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B1\SE LMO BACKUP DEJADO PS2 PACO B01\_06082020\  
DEVICE DEFINITION  
DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
VERSION: 5.5X  
UR SERIAL NUMBER: AABC08000468  
SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
DESCRIPTION: PACO B1  
TEXT COLOR  
ASSOCIATED DEVICE: (NONE)

FLEXLOGIC EQUATION EDITOR (continued from last page)

FlexLogic Entry 404	END
FlexLogic Entry 405	END
FlexLogic Entry 406	END
FlexLogic Entry 407	END
FlexLogic Entry 408	END
FlexLogic Entry 409	END
FlexLogic Entry 410	END
FlexLogic Entry 411	END
FlexLogic Entry 412	END
FlexLogic Entry 413	END
FlexLogic Entry 414	END
FlexLogic Entry 415	END
FlexLogic Entry 416	END
FlexLogic Entry 417	END
FlexLogic Entry 418	END
FlexLogic Entry 419	END
FlexLogic Entry 420	END
FlexLogic Entry 421	END
FlexLogic Entry 422	END
FlexLogic Entry 423	END
FlexLogic Entry 424	END
FlexLogic Entry 425	END
FlexLogic Entry 426	END
FlexLogic Entry 427	END
FlexLogic Entry 428	END
FlexLogic Entry 429	END
FlexLogic Entry 430	END
FlexLogic Entry 431	END
FlexLogic Entry 432	END
FlexLogic Entry 433	END
FlexLogic Entry 434	END
FlexLogic Entry 435	END
FlexLogic Entry 436	END
FlexLogic Entry 437	END
FlexLogic Entry 438	END
FlexLogic Entry 439	END
FlexLogic Entry 440	END
FlexLogic Entry 441	END
FlexLogic Entry 442	END
FlexLogic Entry 443	END
FlexLogic Entry 444	END
FlexLogic Entry 445	END
FlexLogic Entry 446	END
FlexLogic Entry 447	END
FlexLogic Entry 448	END
FlexLogic Entry 449	END
FlexLogic Entry 450	END
FlexLogic Entry 451	END
FlexLogic Entry 452	END
FlexLogic Entry 453	END
FlexLogic Entry 454	END
FlexLogic Entry 455	END
FlexLogic Entry 456	END
FlexLogic Entry 457	END
FlexLogic Entry 458	END
FlexLogic Entry 459	END
FlexLogic Entry 460	END
FlexLogic Entry 461	END
FlexLogic Entry 462	END
FlexLogic Entry 463	END
FlexLogic Entry 464	END
FlexLogic Entry 465	END
FlexLogic Entry 466	END
FlexLogic Entry 467	END
FlexLogic Entry 468	END
FlexLogic Entry 469	END
FlexLogic Entry 470	END
FlexLogic Entry 471	END
FlexLogic Entry 472	END
FlexLogic Entry 473	END
FlexLogic Entry 474	END

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 VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B1\SE LMO BACKUP DEJADO PS2 PACO B01\_06082020\  
 DEVICE DEFINITION  
 DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000468  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
 DESCRIPTION: PACO B1  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

FLEXLOGIC EQUATION EDITOR (continued from last page)

FlexLogic Entry 475	END
FlexLogic Entry 476	END
FlexLogic Entry 477	END
FlexLogic Entry 478	END
FlexLogic Entry 479	END
FlexLogic Entry 480	END
FlexLogic Entry 481	END
FlexLogic Entry 482	END
FlexLogic Entry 483	END
FlexLogic Entry 484	END
FlexLogic Entry 485	END
FlexLogic Entry 486	END
FlexLogic Entry 487	END
FlexLogic Entry 488	END
FlexLogic Entry 489	END
FlexLogic Entry 490	END
FlexLogic Entry 491	END
FlexLogic Entry 492	END
FlexLogic Entry 493	END
FlexLogic Entry 494	END
FlexLogic Entry 495	END
FlexLogic Entry 496	END
FlexLogic Entry 497	END
FlexLogic Entry 498	END
FlexLogic Entry 499	END
FlexLogic Entry 500	END
FlexLogic Entry 501	END
FlexLogic Entry 502	END
FlexLogic Entry 503	END
FlexLogic Entry 504	END
FlexLogic Entry 505	END
FlexLogic Entry 506	END
FlexLogic Entry 507	END
FlexLogic Entry 508	END
FlexLogic Entry 509	END
FlexLogic Entry 510	END
FlexLogic Entry 511	END
FlexLogic Entry 512	END

FLEXLOGIC TIMERS

Timer 1: Type	second
Timer 1: Pickup Delay	15
Timer 1: Dropout Delay	0
Timer 2: Type	millisecond
Timer 2: Pickup Delay	0
Timer 2: Dropout Delay	0
Timer 3: Type	millisecond
Timer 3: Pickup Delay	0
Timer 3: Dropout Delay	0
Timer 4: Type	millisecond
Timer 4: Pickup Delay	0
Timer 4: Dropout Delay	0
Timer 5: Type	millisecond
Timer 5: Pickup Delay	0
Timer 5: Dropout Delay	0
Timer 6: Type	millisecond
Timer 6: Pickup Delay	0
Timer 6: Dropout Delay	0
Timer 7: Type	millisecond
Timer 7: Pickup Delay	0
Timer 7: Dropout Delay	0
Timer 8: Type	millisecond
Timer 8: Pickup Delay	0
Timer 8: Dropout Delay	0
Timer 9: Type	millisecond
Timer 9: Pickup Delay	0
Timer 9: Dropout Delay	0
Timer 10: Type	millisecond
Timer 10: Pickup Delay	0
Timer 10: Dropout Delay	0
Timer 11: Type	millisecond

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 VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B1\SE LMO BACKUP DEJADO PS2 PACO B01\_06082020\

DEVICE DEFINITION

DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000468  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
 DESCRIPTION: PACO B1  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

FLEXLOGIC TIMERS (continued from last page)

Timer 11: Pickup Delay	0
Timer 11: Dropout Delay	0
Timer 12: Type	millisecond
Timer 12: Pickup Delay	0
Timer 12: Dropout Delay	0
Timer 13: Type	millisecond
Timer 13: Pickup Delay	0
Timer 13: Dropout Delay	0
Timer 14: Type	millisecond
Timer 14: Pickup Delay	0
Timer 14: Dropout Delay	0
Timer 15: Type	millisecond
Timer 15: Pickup Delay	0
Timer 15: Dropout Delay	0
Timer 16: Type	millisecond
Timer 16: Pickup Delay	0
Timer 16: Dropout Delay	0
Timer 17: Type	millisecond
Timer 17: Pickup Delay	0
Timer 17: Dropout Delay	0
Timer 18: Type	millisecond
Timer 18: Pickup Delay	0
Timer 18: Dropout Delay	0
Timer 19: Type	millisecond
Timer 19: Pickup Delay	0
Timer 19: Dropout Delay	0
Timer 20: Type	millisecond
Timer 20: Pickup Delay	0
Timer 20: Dropout Delay	0
Timer 21: Type	millisecond
Timer 21: Pickup Delay	0
Timer 21: Dropout Delay	0
Timer 22: Type	millisecond
Timer 22: Pickup Delay	0
Timer 22: Dropout Delay	0
Timer 23: Type	millisecond
Timer 23: Pickup Delay	0
Timer 23: Dropout Delay	0
Timer 24: Type	millisecond
Timer 24: Pickup Delay	0
Timer 24: Dropout Delay	0
Timer 25: Type	millisecond
Timer 25: Pickup Delay	0
Timer 25: Dropout Delay	0
Timer 26: Type	millisecond
Timer 26: Pickup Delay	0
Timer 26: Dropout Delay	0
Timer 27: Type	millisecond
Timer 27: Pickup Delay	0
Timer 27: Dropout Delay	0
Timer 28: Type	millisecond
Timer 28: Pickup Delay	0
Timer 28: Dropout Delay	0
Timer 29: Type	millisecond
Timer 29: Pickup Delay	0
Timer 29: Dropout Delay	0
Timer 30: Type	millisecond
Timer 30: Pickup Delay	0
Timer 30: Dropout Delay	0
Timer 31: Type	millisecond
Timer 31: Pickup Delay	0
Timer 31: Dropout Delay	0
Timer 32: Type	millisecond
Timer 32: Pickup Delay	0
Timer 32: Dropout Delay	0

FLEXELEMENTS

FLEXELEMENTS 1: Function	Enabled
FLEXELEMENTS 1: Name	P 8MW
FLEXELEMENTS 1: InputPlus	SRC1 P
FLEXELEMENTS 1: InputMinus	OFF

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VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B1\SE LMO BACKUP DEJADO PS2 PACO B01\_06082020\

## DEVICE DEFINITION

## DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67

VERSION: 5.5X

UR SERIAL NUMBER: AABC08000468

SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11

DESCRIPTION: PACO B1

TEXT COLOR

ASSOCIATED DEVICE: (NONE)

## FLEXELEMENTS (continued from last page)

FLEXELEMENTS 1: InputMode	ABSOLUTE
FLEXELEMENTS 1: Compare Mode	LEVEL
FLEXELEMENTS 1: Direction Type	OVER
FLEXELEMENTS 1: Pickup	1.330 pu
FLEXELEMENTS 1: Hysteresis	3.0 %
FLEXELEMENTS 1: DeltaTUnits	Milliseconds
FLEXELEMENTS 1: DeltaT	20
FLEXELEMENTS 1: Pickup Delay	0.000 s
FLEXELEMENTS 1: Reset Delay	0.000 s
FLEXELEMENTS 1: Block	OFF
FLEXELEMENTS 1: Target	Self-reset
FLEXELEMENTS 1: Events	Enabled
FLEXELEMENTS 2: Function	Disabled
FLEXELEMENTS 2: Name	FxE 2
FLEXELEMENTS 2: InputPlus	OFF
FLEXELEMENTS 2: InputMinus	OFF
FLEXELEMENTS 2: InputMode	SIGNED
FLEXELEMENTS 2: Compare Mode	LEVEL
FLEXELEMENTS 2: Direction Type	OVER
FLEXELEMENTS 2: Pickup	1.000 pu
FLEXELEMENTS 2: Hysteresis	3.0 %
FLEXELEMENTS 2: DeltaTUnits	Milliseconds
FLEXELEMENTS 2: DeltaT	20
FLEXELEMENTS 2: Pickup Delay	0.000 s
FLEXELEMENTS 2: Reset Delay	0.000 s
FLEXELEMENTS 2: Block	OFF
FLEXELEMENTS 2: Target	Self-reset
FLEXELEMENTS 2: Events	Disabled
FLEXELEMENTS 3: Function	Disabled
FLEXELEMENTS 3: Name	FxE 3
FLEXELEMENTS 3: InputPlus	OFF
FLEXELEMENTS 3: InputMinus	OFF
FLEXELEMENTS 3: InputMode	SIGNED
FLEXELEMENTS 3: Compare Mode	LEVEL
FLEXELEMENTS 3: Direction Type	OVER
FLEXELEMENTS 3: Pickup	1.000 pu
FLEXELEMENTS 3: Hysteresis	3.0 %
FLEXELEMENTS 3: DeltaTUnits	Milliseconds
FLEXELEMENTS 3: DeltaT	20
FLEXELEMENTS 3: Pickup Delay	0.000 s
FLEXELEMENTS 3: Reset Delay	0.000 s
FLEXELEMENTS 3: Block	OFF
FLEXELEMENTS 3: Target	Self-reset
FLEXELEMENTS 3: Events	Disabled
FLEXELEMENTS 4: Function	Disabled
FLEXELEMENTS 4: Name	FxE 4
FLEXELEMENTS 4: InputPlus	OFF
FLEXELEMENTS 4: InputMinus	OFF
FLEXELEMENTS 4: InputMode	SIGNED
FLEXELEMENTS 4: Compare Mode	LEVEL
FLEXELEMENTS 4: Direction Type	OVER
FLEXELEMENTS 4: Pickup	1.000 pu
FLEXELEMENTS 4: Hysteresis	3.0 %
FLEXELEMENTS 4: DeltaTUnits	Milliseconds
FLEXELEMENTS 4: DeltaT	20
FLEXELEMENTS 4: Pickup Delay	0.000 s
FLEXELEMENTS 4: Reset Delay	0.000 s
FLEXELEMENTS 4: Block	OFF
FLEXELEMENTS 4: Target	Self-reset
FLEXELEMENTS 4: Events	Disabled
FLEXELEMENTS 5: Function	Disabled
FLEXELEMENTS 5: Name	FxE 5
FLEXELEMENTS 5: InputPlus	OFF
FLEXELEMENTS 5: InputMinus	OFF
FLEXELEMENTS 5: InputMode	SIGNED
FLEXELEMENTS 5: Compare Mode	LEVEL
FLEXELEMENTS 5: Direction Type	OVER
FLEXELEMENTS 5: Pickup	1.000 pu
FLEXELEMENTS 5: Hysteresis	3.0 %
FLEXELEMENTS 5: DeltaTUnits	Milliseconds
FLEXELEMENTS 5: DeltaT	20

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## DEVICE DEFINITION

## DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67

VERSION: 5.5X

UR SERIAL NUMBER: AABC08000468

SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11

DESCRIPTION: PACO B1

TEXT COLOR

ASSOCIATED DEVICE: (NONE)

## FLEXELEMENTS (continued from last page)

FLEXELEMENTS 5: Pickup Delay	0.000 s
FLEXELEMENTS 5: Reset Delay	0.000 s
FLEXELEMENTS 5: Block	OFF
FLEXELEMENTS 5: Target	Self-reset
FLEXELEMENTS 5: Events	Disabled
FLEXELEMENTS 6: Function	Disabled
FLEXELEMENTS 6: Name	FxE 6
FLEXELEMENTS 6: InputPlus	OFF
FLEXELEMENTS 6: InputMinus	OFF
FLEXELEMENTS 6: InputMode	SIGNED
FLEXELEMENTS 6: Compare Mode	LEVEL
FLEXELEMENTS 6: Direction Type	OVER
FLEXELEMENTS 6: Pickup	1.000 pu
FLEXELEMENTS 6: Hysteresis	3.0 %
FLEXELEMENTS 6: DeltaTUnits	Milliseconds
FLEXELEMENTS 6: DeltaT	20
FLEXELEMENTS 6: Pickup Delay	0.000 s
FLEXELEMENTS 6: Reset Delay	0.000 s
FLEXELEMENTS 6: Block	OFF
FLEXELEMENTS 6: Target	Self-reset
FLEXELEMENTS 6: Events	Disabled
FLEXELEMENTS 7: Function	Disabled
FLEXELEMENTS 7: Name	FxE 7
FLEXELEMENTS 7: InputPlus	OFF
FLEXELEMENTS 7: InputMinus	OFF
FLEXELEMENTS 7: InputMode	SIGNED
FLEXELEMENTS 7: Compare Mode	LEVEL
FLEXELEMENTS 7: Direction Type	OVER
FLEXELEMENTS 7: Pickup	1.000 pu
FLEXELEMENTS 7: Hysteresis	3.0 %
FLEXELEMENTS 7: DeltaTUnits	Milliseconds
FLEXELEMENTS 7: DeltaT	20
FLEXELEMENTS 7: Pickup Delay	0.000 s
FLEXELEMENTS 7: Reset Delay	0.000 s
FLEXELEMENTS 7: Block	OFF
FLEXELEMENTS 7: Target	Self-reset
FLEXELEMENTS 7: Events	Disabled
FLEXELEMENTS 8: Function	Disabled
FLEXELEMENTS 8: Name	FxE 8
FLEXELEMENTS 8: InputPlus	OFF
FLEXELEMENTS 8: InputMinus	OFF
FLEXELEMENTS 8: InputMode	SIGNED
FLEXELEMENTS 8: Compare Mode	LEVEL
FLEXELEMENTS 8: Direction Type	OVER
FLEXELEMENTS 8: Pickup	1.000 pu
FLEXELEMENTS 8: Hysteresis	3.0 %
FLEXELEMENTS 8: DeltaTUnits	Milliseconds
FLEXELEMENTS 8: DeltaT	20
FLEXELEMENTS 8: Pickup Delay	0.000 s
FLEXELEMENTS 8: Reset Delay	0.000 s
FLEXELEMENTS 8: Block	OFF
FLEXELEMENTS 8: Target	Self-reset
FLEXELEMENTS 8: Events	Disabled

## NON-VOLATILE LATCHES

LATCH 1: Function	Disabled
LATCH 1: Type	Reset Dominant
LATCH 1: Set	OFF
LATCH 1: Reset	OFF
LATCH 1: Target	Self-reset
LATCH 1: Events	Disabled
LATCH 2: Function	Disabled
LATCH 2: Type	Reset Dominant
LATCH 2: Set	OFF
LATCH 2: Reset	OFF
LATCH 2: Target	Self-reset
LATCH 2: Events	Disabled
LATCH 3: Function	Disabled
LATCH 3: Type	Reset Dominant
LATCH 3: Set	OFF
LATCH 3: Reset	OFF

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 VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B1\SE LMO BACKUP DEJADO PS2 PACO B01\_06082020\  
 DEVICE DEFINITION  
 DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000468  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
 DESCRIPTION: PACO B1  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

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NON-VOLATILE LATCHES (continued from last page)

LATCH 3: Target	Self-reset
LATCH 3: Events	Disabled
LATCH 4: Function	Disabled
LATCH 4: Type	Reset Dominant
LATCH 4: Set	OFF
LATCH 4: Reset	OFF
LATCH 4: Target	Self-reset
LATCH 4: Events	Disabled
LATCH 5: Function	Disabled
LATCH 5: Type	Reset Dominant
LATCH 5: Set	OFF
LATCH 5: Reset	OFF
LATCH 5: Target	Self-reset
LATCH 5: Events	Disabled
LATCH 6: Function	Disabled
LATCH 6: Type	Reset Dominant
LATCH 6: Set	OFF
LATCH 6: Reset	OFF
LATCH 6: Target	Self-reset
LATCH 6: Events	Disabled
LATCH 7: Function	Disabled
LATCH 7: Type	Reset Dominant
LATCH 7: Set	OFF
LATCH 7: Reset	OFF
LATCH 7: Target	Self-reset
LATCH 7: Events	Disabled
LATCH 8: Function	Disabled
LATCH 8: Type	Reset Dominant
LATCH 8: Set	OFF
LATCH 8: Reset	OFF
LATCH 8: Target	Self-reset
LATCH 8: Events	Disabled
LATCH 9: Function	Disabled
LATCH 9: Type	Reset Dominant
LATCH 9: Set	OFF
LATCH 9: Reset	OFF
LATCH 9: Target	Self-reset
LATCH 9: Events	Disabled
LATCH 10: Function	Disabled
LATCH 10: Type	Reset Dominant
LATCH 10: Set	OFF
LATCH 10: Reset	OFF
LATCH 10: Target	Self-reset
LATCH 10: Events	Disabled
LATCH 11: Function	Disabled
LATCH 11: Type	Reset Dominant
LATCH 11: Set	OFF
LATCH 11: Reset	OFF
LATCH 11: Target	Self-reset
LATCH 11: Events	Disabled
LATCH 12: Function	Disabled
LATCH 12: Type	Reset Dominant
LATCH 12: Set	OFF
LATCH 12: Reset	OFF
LATCH 12: Target	Self-reset
LATCH 12: Events	Disabled
LATCH 13: Function	Disabled
LATCH 13: Type	Reset Dominant
LATCH 13: Set	OFF
LATCH 13: Reset	OFF
LATCH 13: Target	Self-reset
LATCH 13: Events	Disabled
LATCH 14: Function	Disabled
LATCH 14: Type	Reset Dominant
LATCH 14: Set	OFF
LATCH 14: Reset	OFF
LATCH 14: Target	Self-reset
LATCH 14: Events	Disabled
LATCH 15: Function	Disabled
LATCH 15: Type	Reset Dominant
LATCH 15: Set	OFF

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 VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B1\SE LMO BACKUP DEJADO PS2 PACO B01\_06082020\

DEVICE DEFINITION

DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000468  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
 DESCRIPTION: PACO B1  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

NON-VOLATILE LATCHES (continued from last page)

LATCH 15: Reset	OFF
LATCH 15: Target	Self-reset
LATCH 15: Events	Disabled
LATCH 16: Function	Disabled
LATCH 16: Type	Reset Dominant
LATCH 16: Set	OFF
LATCH 16: Reset	OFF
LATCH 16: Target	Self-reset
LATCH 16: Events	Disabled

GROUPED ELEMENTS

GROUP 1

LINE PICKUP [GROUP 1]

Function	Enabled
Signal Source	SRC 1 (SRC 1)
Phase IOC Line Pickup	1.000 pu
UV Pickup	0.800 pu
Line End Open Pickup Delay	0.200 s
Line End Open Reset Delay	0.200 s
OV Pickup Delay	0.040 s
Autoreclose Coordination Bypass	Enabled
Autoreclose Coordination Pickup Delay	0.045 s
Autoreclose Coordination Reset Delay	0.005 s
Terminal Open	BREAKER 1 OPEN
AR Accelerate	OFF
Distance Trip	Disabled
Block	OFF
Target	Self-reset
Events	Enabled

DISTANCE

DISTANCE [GROUP 1]

Source	SRC 1 (SRC 1)
Memory Duration	10 cycles
Force Self-Polar	OFF
Force Mem-Polar	OFF

PHASE DISTANCE [GROUP 1]

PHASE DISTANCE Z1: Function	Enabled
PHASE DISTANCE Z1: Direction	Forward
PHASE DISTANCE Z1: Shape	Mho
PHASE DISTANCE Z1: Xfmr Vol Connection	None
PHASE DISTANCE Z1: Xfmr Curr Connection	None
PHASE DISTANCE Z1: Reach	1.16 ohms
PHASE DISTANCE Z1: RCA	60 deg
PHASE DISTANCE Z1: Rev Reach	0.02 ohms
PHASE DISTANCE Z1: Rev Reach RCA	60 deg
PHASE DISTANCE Z1: Comp Limit	90 deg
PHASE DISTANCE Z1: DIR RCA	60 deg
PHASE DISTANCE Z1: DIR Comp Limit	90 deg
PHASE DISTANCE Z1: Quad Right Blinder	10.00 ohms
PHASE DISTANCE Z1: Quad Right Blinder RCA	85 deg
PHASE DISTANCE Z1: Quad Left Blinder	10.00 ohms
PHASE DISTANCE Z1: Quad Left Blinder RCA	85 deg
PHASE DISTANCE Z1: Supervision	0.100 pu
PHASE DISTANCE Z1: Volt Level	0.000 pu
PHASE DISTANCE Z1: Delay	0.000 s
PHASE DISTANCE Z1: Block	Falla POT On (VO1)
PHASE DISTANCE Z1: Target	Latched
PHASE DISTANCE Z1: Events	Enabled
PHASE DISTANCE Z2: Function	Enabled
PHASE DISTANCE Z2: Direction	Forward
PHASE DISTANCE Z2: Shape	Mho
PHASE DISTANCE Z2: Xfmr Vol Connection	None
PHASE DISTANCE Z2: Xfmr Curr Connection	None
PHASE DISTANCE Z2: Reach	2.28 ohms
PHASE DISTANCE Z2: RCA	60 deg
PHASE DISTANCE Z2: Rev Reach	0.02 ohms
PHASE DISTANCE Z2: Rev Reach RCA	60 deg
PHASE DISTANCE Z2: Comp Limit	90 deg
PHASE DISTANCE Z2: DIR RCA	60 deg



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VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B1\SE LMO BACKUP DEJADO PS2 PACO B01\_06082020\

## DEVICE DEFINITION

## DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67

VERSION: 5.5X

UR SERIAL NUMBER: AABC08000468

SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11

DESCRIPTION: PACO B1

TEXT COLOR

ASSOCIATED DEVICE: (NONE)

## PHASE DISTANCE [GROUP 1] (continued from last page)

PHASE DISTANCE Z2: DIR Comp Limit	90 deg
PHASE DISTANCE Z2: Quad Right Blinder	10.00 ohms
PHASE DISTANCE Z2: Quad Right Blinder RCA	85 deg
PHASE DISTANCE Z2: Quad Left Blinder	10.00 ohms
PHASE DISTANCE Z2: Quad Left Blinder RCA	85 deg
PHASE DISTANCE Z2: Supervision	0.100 pu
PHASE DISTANCE Z2: Volt Level	0.000 pu
PHASE DISTANCE Z2: Delay	0.500 s
PHASE DISTANCE Z2: Block	Falla POT On (VO1)
PHASE DISTANCE Z2: Target	Latched
PHASE DISTANCE Z2: Events	Enabled
PHASE DISTANCE Z3: Function	Enabled
PHASE DISTANCE Z3: Direction	Forward
PHASE DISTANCE Z3: Shape	Mho
PHASE DISTANCE Z3: Xfmr Vol Connection	None
PHASE DISTANCE Z3: Xfmr Curr Connection	None
PHASE DISTANCE Z3: Reach	6.21 ohms
PHASE DISTANCE Z3: RCA	60 deg
PHASE DISTANCE Z3: Rev Reach	0.02 ohms
PHASE DISTANCE Z3: Rev Reach RCA	60 deg
PHASE DISTANCE Z3: Comp Limit	90 deg
PHASE DISTANCE Z3: DIR RCA	60 deg
PHASE DISTANCE Z3: DIR Comp Limit	90 deg
PHASE DISTANCE Z3: Quad Right Blinder	10.00 ohms
PHASE DISTANCE Z3: Quad Right Blinder RCA	85 deg
PHASE DISTANCE Z3: Quad Left Blinder	10.00 ohms
PHASE DISTANCE Z3: Quad Left Blinder RCA	85 deg
PHASE DISTANCE Z3: Supervision	0.100 pu
PHASE DISTANCE Z3: Volt Level	0.000 pu
PHASE DISTANCE Z3: Delay	0.900 s
PHASE DISTANCE Z3: Block	Falla POT On (VO1)
PHASE DISTANCE Z3: Target	Latched
PHASE DISTANCE Z3: Events	Enabled
PHASE DISTANCE Z4: Function	Disabled
PHASE DISTANCE Z4: Direction	Forward
PHASE DISTANCE Z4: Shape	Mho
PHASE DISTANCE Z4: Xfmr Vol Connection	None
PHASE DISTANCE Z4: Xfmr Curr Connection	None
PHASE DISTANCE Z4: Reach	2.00 ohms
PHASE DISTANCE Z4: RCA	85 deg
PHASE DISTANCE Z4: Rev Reach	2.00 ohms
PHASE DISTANCE Z4: Rev Reach RCA	85 deg
PHASE DISTANCE Z4: Comp Limit	90 deg
PHASE DISTANCE Z4: DIR RCA	85 deg
PHASE DISTANCE Z4: DIR Comp Limit	90 deg
PHASE DISTANCE Z4: Quad Right Blinder	10.00 ohms
PHASE DISTANCE Z4: Quad Right Blinder RCA	85 deg
PHASE DISTANCE Z4: Quad Left Blinder	10.00 ohms
PHASE DISTANCE Z4: Quad Left Blinder RCA	85 deg
PHASE DISTANCE Z4: Supervision	0.100 pu
PHASE DISTANCE Z4: Volt Level	0.000 pu
PHASE DISTANCE Z4: Delay	0.000 s
PHASE DISTANCE Z4: Block	OFF
PHASE DISTANCE Z4: Target	Self-reset
PHASE DISTANCE Z4: Events	Disabled
PHASE DISTANCE Z5: Function	Disabled
PHASE DISTANCE Z5: Direction	Forward
PHASE DISTANCE Z5: Shape	Mho
PHASE DISTANCE Z5: Xfmr Vol Connection	None
PHASE DISTANCE Z5: Xfmr Curr Connection	None
PHASE DISTANCE Z5: Reach	2.00 ohms
PHASE DISTANCE Z5: RCA	85 deg
PHASE DISTANCE Z5: Rev Reach	2.00 ohms
PHASE DISTANCE Z5: Rev Reach RCA	85 deg
PHASE DISTANCE Z5: Comp Limit	90 deg
PHASE DISTANCE Z5: DIR RCA	85 deg
PHASE DISTANCE Z5: DIR Comp Limit	90 deg
PHASE DISTANCE Z5: Quad Right Blinder	10.00 ohms
PHASE DISTANCE Z5: Quad Right Blinder RCA	85 deg
PHASE DISTANCE Z5: Quad Left Blinder	10.00 ohms
PHASE DISTANCE Z5: Quad Left Blinder RCA	85 deg

SE LMO BACKUP DEJADO PS2 PACO B01\_06082020.URS  
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 VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B1\SE LMO BACKUP DEJADO PS2 PACO B01\_06082020\

## DEVICE DEFINITION

## DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000468  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
 DESCRIPTION: PACO B1  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

PHASE DISTANCE [GROUP 1] (continued from last page)

PHASE DISTANCE Z5: Supervision	0.100 pu
PHASE DISTANCE Z5: Volt Level	0.000 pu
PHASE DISTANCE Z5: Delay	0.000 s
PHASE DISTANCE Z5: Block	OFF
PHASE DISTANCE Z5: Target	Self-reset
PHASE DISTANCE Z5: Events	Disabled

GROUND DISTANCE [GROUP 1]

GROUND DISTANCE Z1: Function	Enabled
GROUND DISTANCE Z1: Direction	Forward
GROUND DISTANCE Z1: Shape	Mho
GROUND DISTANCE Z1: Z0/Z1 Mag	3.32
GROUND DISTANCE Z1: Z0/Z1 Ang	11 deg
GROUND DISTANCE Z1: Z0M/Z1 Mag	0.00
GROUND DISTANCE Z1: Z0M/Z1 Ang	0 deg
GROUND DISTANCE Z1: Reach	0.93 ohms
GROUND DISTANCE Z1: RCA	60 deg
GROUND DISTANCE Z1: Rev Reach	0.02 ohms
GROUND DISTANCE Z1: Rev Reach RCA	60 deg
GROUND DISTANCE Z1: POL Current	Neg-seq
GROUND DISTANCE Z1: Non-Homogen Ang	0.0 deg
GROUND DISTANCE Z1: Comp Limit	90 deg
GROUND DISTANCE Z1: DIR RCA	60 deg
GROUND DISTANCE Z1: DIR Comp Limit	90 deg
GROUND DISTANCE Z1: Quad Right Blinder	10.00 ohms
GROUND DISTANCE Z1: Quad Right Blinder RCA	85 deg
GROUND DISTANCE Z1: Quad Left Blinder	10.00 ohms
GROUND DISTANCE Z1: Quad Left Blinder RCA	85 deg
GROUND DISTANCE Z1: Supervision	0.100 pu
GROUND DISTANCE Z1: Volt Level	0.000 pu
GROUND DISTANCE Z1: Delay	0.000 s
GROUND DISTANCE Z1: Block	Falla POT On (VO1)
GROUND DISTANCE Z1: Target	Latched
GROUND DISTANCE Z1: Events	Enabled
GROUND DISTANCE Z2: Function	Enabled
GROUND DISTANCE Z2: Direction	Forward
GROUND DISTANCE Z2: Shape	Mho
GROUND DISTANCE Z2: Z0/Z1 Mag	3.32
GROUND DISTANCE Z2: Z0/Z1 Ang	11 deg
GROUND DISTANCE Z2: Z0M/Z1 Mag	0.00
GROUND DISTANCE Z2: Z0M/Z1 Ang	0 deg
GROUND DISTANCE Z2: Reach	2.64 ohms
GROUND DISTANCE Z2: RCA	60 deg
GROUND DISTANCE Z2: Rev Reach	0.02 ohms
GROUND DISTANCE Z2: Rev Reach RCA	60 deg
GROUND DISTANCE Z2: POL Current	Neg-seq
GROUND DISTANCE Z2: Non-Homogen Ang	0.0 deg
GROUND DISTANCE Z2: Comp Limit	90 deg
GROUND DISTANCE Z2: DIR RCA	60 deg
GROUND DISTANCE Z2: DIR Comp Limit	90 deg
GROUND DISTANCE Z2: Quad Right Blinder	10.00 ohms
GROUND DISTANCE Z2: Quad Right Blinder RCA	85 deg
GROUND DISTANCE Z2: Quad Left Blinder	10.00 ohms
GROUND DISTANCE Z2: Quad Left Blinder RCA	85 deg
GROUND DISTANCE Z2: Supervision	0.100 pu
GROUND DISTANCE Z2: Volt Level	0.000 pu
GROUND DISTANCE Z2: Delay	0.500 s
GROUND DISTANCE Z2: Block	Falla POT On (VO1)
GROUND DISTANCE Z2: Target	Latched
GROUND DISTANCE Z2: Events	Enabled
GROUND DISTANCE Z3: Function	Enabled
GROUND DISTANCE Z3: Direction	Forward
GROUND DISTANCE Z3: Shape	Mho
GROUND DISTANCE Z3: Z0/Z1 Mag	3.32
GROUND DISTANCE Z3: Z0/Z1 Ang	11 deg
GROUND DISTANCE Z3: Z0M/Z1 Mag	0.00
GROUND DISTANCE Z3: Z0M/Z1 Ang	0 deg
GROUND DISTANCE Z3: Reach	3.69 ohms
GROUND DISTANCE Z3: RCA	60 deg
GROUND DISTANCE Z3: Rev Reach	0.02 ohms
GROUND DISTANCE Z3: Rev Reach RCA	60 deg

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 VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B1\SE LMO BACKUP DEJADO PS2 PACO B01\_06082020\

DEVICE DEFINITION

DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000468  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
 DESCRIPTION: PACO B1  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

GROUND DISTANCE [GROUP 1] (continued from last page)

GROUND DISTANCE Z3: POL Current	Neg-seq
GROUND DISTANCE Z3: Non-Homogen Ang	0.0 deg
GROUND DISTANCE Z3: Comp Limit	90 deg
GROUND DISTANCE Z3: DIR RCA	60 deg
GROUND DISTANCE Z3: DIR Comp Limit	90 deg
GROUND DISTANCE Z3: Quad Right Blinder	10.00 ohms
GROUND DISTANCE Z3: Quad Right Blinder RCA	85 deg
GROUND DISTANCE Z3: Quad Left Blinder	10.00 ohms
GROUND DISTANCE Z3: Quad Left Blinder RCA	85 deg
GROUND DISTANCE Z3: Supervision	0.100 pu
GROUND DISTANCE Z3: Volt Level	0.000 pu
GROUND DISTANCE Z3: Delay	1.500 s
GROUND DISTANCE Z3: Block	Falla POT On (VO1)
GROUND DISTANCE Z3: Target	Latched
GROUND DISTANCE Z3: Events	Enabled
GROUND DISTANCE Z4: Function	Disabled
GROUND DISTANCE Z4: Direction	Forward
GROUND DISTANCE Z4: Shape	Mho
GROUND DISTANCE Z4: Z0/Z1 Mag	2.70
GROUND DISTANCE Z4: Z0/Z1 Ang	0 deg
GROUND DISTANCE Z4: Z0M/Z1 Mag	0.00
GROUND DISTANCE Z4: Z0M/Z1 Ang	0 deg
GROUND DISTANCE Z4: Reach	2.00 ohms
GROUND DISTANCE Z4: RCA	85 deg
GROUND DISTANCE Z4: Rev Reach	2.00 ohms
GROUND DISTANCE Z4: Rev Reach RCA	85 deg
GROUND DISTANCE Z4: POL Current	Zero-seq
GROUND DISTANCE Z4: Non-Homogen Ang	0.0 deg
GROUND DISTANCE Z4: Comp Limit	90 deg
GROUND DISTANCE Z4: DIR RCA	85 deg
GROUND DISTANCE Z4: DIR Comp Limit	90 deg
GROUND DISTANCE Z4: Quad Right Blinder	10.00 ohms
GROUND DISTANCE Z4: Quad Right Blinder RCA	85 deg
GROUND DISTANCE Z4: Quad Left Blinder	10.00 ohms
GROUND DISTANCE Z4: Quad Left Blinder RCA	85 deg
GROUND DISTANCE Z4: Supervision	0.200 pu
GROUND DISTANCE Z4: Volt Level	0.000 pu
GROUND DISTANCE Z4: Delay	0.500 s
GROUND DISTANCE Z4: Block	OFF
GROUND DISTANCE Z4: Target	Self-reset
GROUND DISTANCE Z4: Events	Disabled
GROUND DISTANCE Z5: Function	Disabled
GROUND DISTANCE Z5: Direction	Forward
GROUND DISTANCE Z5: Shape	Mho
GROUND DISTANCE Z5: Z0/Z1 Mag	2.70
GROUND DISTANCE Z5: Z0/Z1 Ang	0 deg
GROUND DISTANCE Z5: Z0M/Z1 Mag	0.00
GROUND DISTANCE Z5: Z0M/Z1 Ang	0 deg
GROUND DISTANCE Z5: Reach	2.00 ohms
GROUND DISTANCE Z5: RCA	85 deg
GROUND DISTANCE Z5: Rev Reach	2.00 ohms
GROUND DISTANCE Z5: Rev Reach RCA	85 deg
GROUND DISTANCE Z5: POL Current	Zero-seq
GROUND DISTANCE Z5: Non-Homogen Ang	0.0 deg
GROUND DISTANCE Z5: Comp Limit	90 deg
GROUND DISTANCE Z5: DIR RCA	85 deg
GROUND DISTANCE Z5: DIR Comp Limit	90 deg
GROUND DISTANCE Z5: Quad Right Blinder	10.00 ohms
GROUND DISTANCE Z5: Quad Right Blinder RCA	85 deg
GROUND DISTANCE Z5: Quad Left Blinder	10.00 ohms
GROUND DISTANCE Z5: Quad Left Blinder RCA	85 deg
GROUND DISTANCE Z5: Supervision	0.200 pu
GROUND DISTANCE Z5: Volt Level	0.000 pu
GROUND DISTANCE Z5: Delay	0.000 s
GROUND DISTANCE Z5: Block	OFF
GROUND DISTANCE Z5: Target	Self-reset
GROUND DISTANCE Z5: Events	Disabled

POWER SWING DETECT [GROUP 1]

Function	Disabled
Source	SRC 1 (SRC 1)

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 VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B1\SE LMO BACKUP DEJADO PS2 PACO B01\_06082020\

DEVICE DEFINITION

DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000468  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
 DESCRIPTION: PACO B1  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

POWER SWING DETECT [GROUP 1] (continued from last page)

Shape	Mho Shape
Mode	Two Step
Supv	0.600 pu
Fwd Reach	50.00 ohms
Quad Fwd Mid	60.00 ohms
Quad Fwd Out	70.00 ohms
Fwd Rca	75 deg
Rev Reach	50.00 ohms
Quad Rev Mid	60.00 ohms
Quad Rev Out	70.00 ohms
Rev Rca	75 deg
Outer Limit Angle	120 deg
Middle Limit Angle	90 deg
Inner Limit Angle	60 deg
Outer Rgt Bld	100.00 ohms
Outer Lft Bld	100.00 ohms
Midle Rgt Bld	100.00 ohms
Midle Lft Bld	100.00 ohms
Inner Rgt Bld	100.00 ohms
Inner Lft Bld	100.00 ohms
Delay 1 Pickup	0.030 s
Delay 1 Reset	0.050 s
Delay 2 Pickup	0.017 s
Delay 3 Pickup	0.009 s
Delay 4 Pickup	0.017 s
Seal-In Delay	0.400 s
Trip Mode	Delayed
Block	OFF
Target	Self-reset
Event	Disabled

LOAD ENCROACHMENT [GROUP 1]

Function	Disabled
Source	SRC 1 (SRC 1)
Min Volt	0.250 pu
Reach	1.00 ohms
Angle	30 deg
Pickup Delay	0.000 s
Reset Delay	0.000 s
Block	OFF
Target	Self-reset
Events	Disabled

PHASE CURRENT

PHASE TOC [GROUP 1]

PHASE TOC1: Function	Disabled
PHASE TOC1: Signal Source	SRC 1 (SRC 1)
PHASE TOC1: Input	Phasor
PHASE TOC1: Pickup	1.000 pu
PHASE TOC1: Curve	IEEE Mod Inv
PHASE TOC1: TD Multiplier	1.00
PHASE TOC1: Reset	Instantaneous
PHASE TOC1: Voltage Restraint	Disabled
PHASE TOC1: Block A	OFF
PHASE TOC1: Block B	OFF
PHASE TOC1: Block C	OFF
PHASE TOC1: Target	Self-reset
PHASE TOC1: Events	Disabled
PHASE TOC2: Function	Disabled
PHASE TOC2: Signal Source	SRC 1 (SRC 1)
PHASE TOC2: Input	Phasor
PHASE TOC2: Pickup	1.000 pu
PHASE TOC2: Curve	IEEE Mod Inv
PHASE TOC2: TD Multiplier	1.00
PHASE TOC2: Reset	Instantaneous
PHASE TOC2: Voltage Restraint	Disabled
PHASE TOC2: Block A	OFF
PHASE TOC2: Block B	OFF
PHASE TOC2: Block C	OFF
PHASE TOC2: Target	Self-reset
PHASE TOC2: Events	Disabled

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 VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B1\SE LMO BACKUP DEJADO PS2 PACO B01\_06082020\

## DEVICE DEFINITION

## DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000468  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
 DESCRIPTION: PACO B1  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

PHASE IOC [GROUP 1]

PHASE IOC1: Function	Disabled
PHASE IOC1: Source	SRC 1 (SRC 1)
PHASE IOC1: Pickup	1.000 pu
PHASE IOC1: Delay	0.00 s
PHASE IOC1: Reset Delay	0.00 s
PHASE IOC1: Block A	OFF
PHASE IOC1: Block B	OFF
PHASE IOC1: Block C	OFF
PHASE IOC1: Target	Self-reset
PHASE IOC1: Events	Disabled
PHASE IOC2: Function	Disabled
PHASE IOC2: Source	SRC 1 (SRC 1)
PHASE IOC2: Pickup	1.000 pu
PHASE IOC2: Delay	0.00 s
PHASE IOC2: Reset Delay	0.00 s
PHASE IOC2: Block A	OFF
PHASE IOC2: Block B	OFF
PHASE IOC2: Block C	OFF
PHASE IOC2: Target	Self-reset
PHASE IOC2: Events	Disabled

PHASE DIRECTIONAL [GROUP 1]

PHASE DIR1: Function	Disabled
PHASE DIR1: Source	SRC 1 (SRC 1)
PHASE DIR1: Block	OFF
PHASE DIR1: ECA	30 deg
PHASE DIR1: Pol V Threshold	0.700 pu
PHASE DIR1: Block when V Mem Exp	No
PHASE DIR1: Target	Self-reset
PHASE DIR1: Events	Disabled
PHASE DIR2: Function	Disabled
PHASE DIR2: Source	SRC 1 (SRC 1)
PHASE DIR2: Block	OFF
PHASE DIR2: ECA	30 deg
PHASE DIR2: Pol V Threshold	0.700 pu
PHASE DIR2: Block when V Mem Exp	No
PHASE DIR2: Target	Self-reset
PHASE DIR2: Events	Disabled

## NEUTRAL CURRENT

NEUTRAL TOC [GROUP 1]

NEUTRAL TOC1: Function	Enabled
NEUTRAL TOC1: Source	SRC 1 (SRC 1)
NEUTRAL TOC1: Input	Phasor
NEUTRAL TOC1: Pickup	0.300 pu
NEUTRAL TOC1: Curve	IEC Curve B
NEUTRAL TOC1: TD Multiplier	0.40
NEUTRAL TOC1: Reset	Instantaneous
NEUTRAL TOC1: Block	NTRL DIR OC1 REV
NEUTRAL TOC1: Target	Latched
NEUTRAL TOC1: Events	Enabled
NEUTRAL TOC2: Function	Disabled
NEUTRAL TOC2: Source	SRC 1 (SRC 1)
NEUTRAL TOC2: Input	Phasor
NEUTRAL TOC2: Pickup	1.000 pu
NEUTRAL TOC2: Curve	IEEE Mod Inv
NEUTRAL TOC2: TD Multiplier	1.00
NEUTRAL TOC2: Reset	Instantaneous
NEUTRAL TOC2: Block	OFF
NEUTRAL TOC2: Target	Self-reset
NEUTRAL TOC2: Events	Disabled

NEUTRAL IOC [GROUP 1]

NEUTRAL IOC1: Function	Enabled
NEUTRAL IOC1: Source	SRC 1 (SRC 1)
NEUTRAL IOC1: Pickup	3.300 pu
NEUTRAL IOC1: Delay	0.00 s
NEUTRAL IOC1: Reset Delay	0.00 s
NEUTRAL IOC1: Block	NTRL DIR OC1 REV
NEUTRAL IOC1: Target	Latched

SE LMO BACKUP DEJADO PS2 PACO B01\_06082020.URS

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VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B1\SE LMO BACKUP DEJADO PS2 PACO B01\_06082020\

## DEVICE DEFINITION

## DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67

VERSION: 5.5X

UR SERIAL NUMBER: AABC08000468

SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11

DESCRIPTION: PACO B1

TEXT COLOR

ASSOCIATED DEVICE: (NONE)

NEUTRAL IOC [GROUP 1] (continued from last page)

NEUTRAL IOC1: Events	Enabled
NEUTRAL IOC2: Function	Disabled
NEUTRAL IOC2: Source	SRC 1 (SRC 1)
NEUTRAL IOC2: Pickup	1.000 pu
NEUTRAL IOC2: Delay	0.00 s
NEUTRAL IOC2: Reset Delay	0.00 s
NEUTRAL IOC2: Block	OFF
NEUTRAL IOC2: Target	Self-reset
NEUTRAL IOC2: Events	Disabled

NEUTRAL DIRECTIONAL OC [GROUP 1]

NEUTRAL DIR OC1: Function	Enabled
NEUTRAL DIR OC1: Source	SRC 1 (SRC 1)
NEUTRAL DIR OC1: Polarizing	Voltage
NEUTRAL DIR OC1: Polarizing Volt	Calculated V0
NEUTRAL DIR OC1: Op Current	Calculated 3I0
NEUTRAL DIR OC1: POS SEQ Restraint	0.063
NEUTRAL DIR OC1: Offset	0.00 ohms
NEUTRAL DIR OC1: Forward ECA	75 ° Lag
NEUTRAL DIR OC1: Forward Limit Angle	85 deg
NEUTRAL DIR OC1: Forward Pickup	0.080 pu
NEUTRAL DIR OC1: Reverse Limit Angle	85 deg
NEUTRAL DIR OC1: Reverse Pickup	0.080 pu
NEUTRAL DIR OC1: Block	Falla POT On (VO1)
NEUTRAL DIR OC1: Target	Latched
NEUTRAL DIR OC1: Events	Enabled
NEUTRAL DIR OC2: Function	Disabled
NEUTRAL DIR OC2: Source	SRC 1 (SRC 1)
NEUTRAL DIR OC2: Polarizing	Voltage
NEUTRAL DIR OC2: Polarizing Volt	Calculated V0
NEUTRAL DIR OC2: Op Current	Calculated 3I0
NEUTRAL DIR OC2: POS SEQ Restraint	0.063
NEUTRAL DIR OC2: Offset	0.00 ohms
NEUTRAL DIR OC2: Forward ECA	75 ° Lag
NEUTRAL DIR OC2: Forward Limit Angle	90 deg
NEUTRAL DIR OC2: Forward Pickup	0.050 pu
NEUTRAL DIR OC2: Reverse Limit Angle	90 deg
NEUTRAL DIR OC2: Reverse Pickup	0.050 pu
NEUTRAL DIR OC2: Block	OFF
NEUTRAL DIR OC2: Target	Self-reset
NEUTRAL DIR OC2: Events	Disabled

WATTMETRIC GROUND FAULT [GROUP 1]

WATTMETRIC GND FLT 1: Function	Disabled
WATTMETRIC GND FLT 1: Source	SRC 1 (SRC 1)
WATTMETRIC GND FLT 1: Voltage	Calculated VN
WATTMETRIC GND FLT 1: OV Pickup	0.20 pu
WATTMETRIC GND FLT 1: Current	Calculated IN
WATTMETRIC GND FLT 1: OC Pickup	0.060 pu
WATTMETRIC GND FLT 1: OC Pickup Delay	0.20 s
WATTMETRIC GND FLT 1: Power Pickup	0.100 pu
WATTMETRIC GND FLT 1: Ref Power	0.500 pu
WATTMETRIC GND FLT 1: ECA	0 ° Lag
WATTMETRIC GND FLT 1: Power Pickup Delay	0.20 s
WATTMETRIC GND FLT 1: Curve	Definite Time
WATTMETRIC GND FLT 1: Multiplier	1.00 s
WATTMETRIC GND FLT 1: Block	OFF
WATTMETRIC GND FLT 1: Target	Self-reset
WATTMETRIC GND FLT 1: Events	Disabled
WATTMETRIC GND FLT 2: Function	Disabled
WATTMETRIC GND FLT 2: Source	SRC 1 (SRC 1)
WATTMETRIC GND FLT 2: Voltage	Calculated VN
WATTMETRIC GND FLT 2: OV Pickup	0.20 pu
WATTMETRIC GND FLT 2: Current	Calculated IN
WATTMETRIC GND FLT 2: OC Pickup	0.060 pu
WATTMETRIC GND FLT 2: OC Pickup Delay	0.20 s
WATTMETRIC GND FLT 2: Power Pickup	0.100 pu
WATTMETRIC GND FLT 2: Ref Power	0.500 pu
WATTMETRIC GND FLT 2: ECA	0 ° Lag
WATTMETRIC GND FLT 2: Power Pickup Delay	0.20 s
WATTMETRIC GND FLT 2: Curve	Definite Time

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 VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B1\SE LMO BACKUP DEJADO PS2 PACO B01\_06082020\

DEVICE DEFINITION

DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000468  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
 DESCRIPTION: PACO B1  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

WATTMETRIC GROUND FAULT [GROUP 1] (continued from last page)

WATTMETRIC GND FLT 2: Multiplier 1.00 s  
 WATTMETRIC GND FLT 2: Block OFF  
 WATTMETRIC GND FLT 2: Target Self-reset  
 WATTMETRIC GND FLT 2: Events Disabled

GROUND CURRENT

GROUND TOC [GROUP 1]

GROUND TOC1: Function Disabled  
 GROUND TOC1: Source SRC 1 (SRC 1)  
 GROUND TOC1: Input Phasor  
 GROUND TOC1: Pickup 1.000 pu  
 GROUND TOC1: Curve IEEE Mod Inv  
 GROUND TOC1: TD Multiplier 1.00  
 GROUND TOC1: Reset Instantaneous  
 GROUND TOC1: Block OFF  
 GROUND TOC1: Target Self-reset  
 GROUND TOC1: Events Disabled  
 GROUND TOC2: Function Disabled  
 GROUND TOC2: Source SRC 1 (SRC 1)  
 GROUND TOC2: Input Phasor  
 GROUND TOC2: Pickup 1.000 pu  
 GROUND TOC2: Curve IEEE Mod Inv  
 GROUND TOC2: TD Multiplier 1.00  
 GROUND TOC2: Reset Instantaneous  
 GROUND TOC2: Block OFF  
 GROUND TOC2: Target Self-reset  
 GROUND TOC2: Events Disabled

GROUND IOC [GROUP 1]

GROUND IOC1: Function Disabled  
 GROUND IOC1: Source SRC 1 (SRC 1)  
 GROUND IOC1: Pickup 1.000 pu  
 GROUND IOC1: Delay 0.00 s  
 GROUND IOC1: Reset Delay 0.00 s  
 GROUND IOC1: Block OFF  
 GROUND IOC1: Target Self-reset  
 GROUND IOC1: Events Disabled  
 GROUND IOC2: Function Disabled  
 GROUND IOC2: Source SRC 1 (SRC 1)  
 GROUND IOC2: Pickup 1.000 pu  
 GROUND IOC2: Delay 0.00 s  
 GROUND IOC2: Reset Delay 0.00 s  
 GROUND IOC2: Block OFF  
 GROUND IOC2: Target Self-reset  
 GROUND IOC2: Events Disabled

NEGATIVE SEQUENCE CURRENT

NEGATIVE SEQUENCE TOC [GROUP 1]

NEGATIVE SEQ TOC1: Function Disabled  
 NEGATIVE SEQ TOC1: Source SRC 1 (SRC 1)  
 NEGATIVE SEQ TOC1: Pickup 1.000 pu  
 NEGATIVE SEQ TOC1: Curve IEEE Mod Inv  
 NEGATIVE SEQ TOC1: TD Multiplier 1.00  
 NEGATIVE SEQ TOC1: Reset Instantaneous  
 NEGATIVE SEQ TOC1: Block OFF  
 NEGATIVE SEQ TOC1: Target Self-reset  
 NEGATIVE SEQ TOC1: Events Disabled  
 NEGATIVE SEQ TOC2: Function Disabled  
 NEGATIVE SEQ TOC2: Source SRC 1 (SRC 1)  
 NEGATIVE SEQ TOC2: Pickup 1.000 pu  
 NEGATIVE SEQ TOC2: Curve IEEE Mod Inv  
 NEGATIVE SEQ TOC2: TD Multiplier 1.00  
 NEGATIVE SEQ TOC2: Reset Instantaneous  
 NEGATIVE SEQ TOC2: Block OFF  
 NEGATIVE SEQ TOC2: Target Self-reset  
 NEGATIVE SEQ TOC2: Events Disabled

NEGATIVE SEQUENCE IOC [GROUP 1]

NEGATIVE SEQ IOC1: Function Disabled  
 NEGATIVE SEQ IOC1: Source SRC 1 (SRC 1)  
 NEGATIVE SEQ IOC1: Pickup 1.000 pu

SE LMO BACKUP DEJADO PS2 PACO B01\_06082020.URS  
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 VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B1\SE LMO BACKUP DEJADO PS2 PACO B01\_06082020\

## DEVICE DEFINITION

## DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000468  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
 DESCRIPTION: PACO B1  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

NEGATIVE SEQUENCE IOC [GROUP 1] (continued from last page)

NEGATIVE SEQ IOC1: Delay	0.00 s
NEGATIVE SEQ IOC1: Reset Delay	0.00 s
NEGATIVE SEQ IOC1: Block	OFF
NEGATIVE SEQ IOC1: Target	Self-reset
NEGATIVE SEQ IOC1: Events	Disabled
NEGATIVE SEQ IOC2: Function	Disabled
NEGATIVE SEQ IOC2: Source	SRC 1 (SRC 1)
NEGATIVE SEQ IOC2: Pickup	1.000 pu
NEGATIVE SEQ IOC2: Delay	0.00 s
NEGATIVE SEQ IOC2: Reset Delay	0.00 s
NEGATIVE SEQ IOC2: Block	OFF
NEGATIVE SEQ IOC2: Target	Self-reset
NEGATIVE SEQ IOC2: Events	Disabled

NEGATIVE SEQUENCE DIRECTIONAL OC [GROUP 1]

NEGATIVE SEQ DIR OC1: Function	Disabled
NEGATIVE SEQ DIR OC1: Source	SRC 1 (SRC 1)
NEGATIVE SEQ DIR OC1: Offset	0.00 ohms
NEGATIVE SEQ DIR OC1: Type	Neg Sequence
NEGATIVE SEQ DIR OC1: POS SEQ Restraint	0.063
NEGATIVE SEQ DIR OC1: Forward ECA	75 ° Lag
NEGATIVE SEQ DIR OC1: Forward Limit Angle	90 deg
NEGATIVE SEQ DIR OC1: Forward Pickup	0.050 pu
NEGATIVE SEQ DIR OC1: Reverse Limit Angle	90 deg
NEGATIVE SEQ DIR OC1: Reverse Pickup	0.050 pu
NEGATIVE SEQ DIR OC1: Block	OFF
NEGATIVE SEQ DIR OC1: Target	Self-reset
NEGATIVE SEQ DIR OC1: Events	Disabled
NEGATIVE SEQ DIR OC2: Function	Disabled
NEGATIVE SEQ DIR OC2: Source	SRC 1 (SRC 1)
NEGATIVE SEQ DIR OC2: Offset	0.00 ohms
NEGATIVE SEQ DIR OC2: Type	Neg Sequence
NEGATIVE SEQ DIR OC2: POS SEQ Restraint	0.063
NEGATIVE SEQ DIR OC2: Forward ECA	75 ° Lag
NEGATIVE SEQ DIR OC2: Forward Limit Angle	90 deg
NEGATIVE SEQ DIR OC2: Forward Pickup	0.050 pu
NEGATIVE SEQ DIR OC2: Reverse Limit Angle	90 deg
NEGATIVE SEQ DIR OC2: Reverse Pickup	0.050 pu
NEGATIVE SEQ DIR OC2: Block	OFF
NEGATIVE SEQ DIR OC2: Target	Self-reset
NEGATIVE SEQ DIR OC2: Events	Disabled

BREAKER FAILURE [GROUP 1]

BF 1: Function	Disabled
BF 1: Mode	3-Pole
BF 1: Source	SRC 1 (SRC 1)
BF 1: Current Supervision	Yes
BF 1: Use Seal-In	Yes
BF 1: Three Pole Initiate	OFF
BF 1: Block	OFF
BF 1: Phase Current Supv Pickup	1.050 pu
BF 1: Neutral Current Supv Pickup	1.050 pu
BF 1: Use Timer 1	Yes
BF 1: Timer 1 Pickup Delay	0.000 s
BF 1: Use Timer 2	Yes
BF 1: Timer 2 Pickup Delay	0.000 s
BF 1: Use Timer 3	Yes
BF 1: Timer 3 Pickup Delay	0.000 s
BF 1: Breaker Pos1 Phase A/3P	OFF
BF 1: Breaker Pos2 Phase A/3P	OFF
BF 1: Breaker Test On	OFF
BF 1: Phase Current HiSet Pickup	1.050 pu
BF 1: Neutral Current HiSet Pickup	1.050 pu
BF 1: Phase Current LoSet Pickup	1.050 pu
BF 1: Neutral Current LoSet Pickup	1.050 pu
BF 1: LoSet Time Delay	0.000 s
BF 1: Trip Dropout Delay	0.000 s
BF 1: Target	Self-reset
BF 1: Events	Disabled
BF 1: Phase A Initiate	OFF
BF 1: Phase B Initiate	OFF



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 VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B1\SE LMO BACKUP DEJADO PS2 PACO B01\_06082020\

## DEVICE DEFINITION

## DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000468  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
 DESCRIPTION: PACO B1  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

BREAKER FAILURE [GROUP 1] (continued from last page)

BF 1: Phase C Initiate	OFF
BF 1: Breaker Pos1 Phase B	OFF
BF 1: Breaker Pos1 Phase C	OFF
BF 1: Breaker Pos2 Phase B	OFF
BF 1: Breaker Pos2 Phase C	OFF
BF 2: Function	Disabled
BF 2: Mode	3-Pole
BF 2: Source	SRC 1 (SRC 1)
BF 2: Current Supervision	Yes
BF 2: Use Seal-In	Yes
BF 2: Three Pole Initiate	OFF
BF 2: Block	OFF
BF 2: Phase Current Supv Pickup	1.050 pu
BF 2: Neutral Current Supv Pickup	1.050 pu
BF 2: Use Timer 1	Yes
BF 2: Timer 1 Pickup Delay	0.000 s
BF 2: Use Timer 2	Yes
BF 2: Timer 2 Pickup Delay	0.000 s
BF 2: Use Timer 3	Yes
BF 2: Timer 3 Pickup Delay	0.000 s
BF 2: Breaker Pos1 Phase A/3P	OFF
BF 2: Breaker Pos2 Phase A/3P	OFF
BF 2: Breaker Test On	OFF
BF 2: Phase Current HiSet Pickup	1.050 pu
BF 2: Neutral Current HiSet Pickup	1.050 pu
BF 2: Phase Current LoSet Pickup	1.050 pu
BF 2: Neutral Current LoSet Pickup	1.050 pu
BF 2: LoSet Time Delay	0.000 s
BF 2: Trip Dropout Delay	0.000 s
BF 2: Target	Self-reset
BF 2: Events	Disabled
BF 2: Phase A Initiate	OFF
BF 2: Phase B Initiate	OFF
BF 2: Phase C Initiate	OFF
BF 2: Breaker Pos1 Phase B	OFF
BF 2: Breaker Pos1 Phase C	OFF
BF 2: Breaker Pos2 Phase B	OFF
BF 2: Breaker Pos2 Phase C	OFF

## VOLTAGE ELEMENTS

PHASE UV [GROUP 1]

PHASE UV1: Function	Disabled
PHASE UV1: Signal Source	SRC 1 (SRC 1)
PHASE UV1: Mode	Phase to Ground
PHASE UV1: Pickup	1.000 pu
PHASE UV1: Curve	Definite Time
PHASE UV1: Delay	1.00 s
PHASE UV1: Minimum Voltage	0.100 pu
PHASE UV1: Block	OFF
PHASE UV1: Target	Self-reset
PHASE UV1: Events	Disabled
PHASE UV2: Function	Disabled
PHASE UV2: Signal Source	SRC 1 (SRC 1)
PHASE UV2: Mode	Phase to Ground
PHASE UV2: Pickup	1.000 pu
PHASE UV2: Curve	Definite Time
PHASE UV2: Delay	1.00 s
PHASE UV2: Minimum Voltage	0.100 pu
PHASE UV2: Block	OFF
PHASE UV2: Target	Self-reset
PHASE UV2: Events	Disabled
PHASE UV3: Function	Disabled
PHASE UV3: Signal Source	SRC 1 (SRC 1)
PHASE UV3: Mode	Phase to Ground
PHASE UV3: Pickup	1.000 pu
PHASE UV3: Curve	Definite Time
PHASE UV3: Delay	1.00 s
PHASE UV3: Minimum Voltage	0.100 pu
PHASE UV3: Block	OFF
PHASE UV3: Target	Self-reset
PHASE UV3: Events	Disabled

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## DEVICE DEFINITION

## DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000468  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
 DESCRIPTION: PACO B1  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

PHASE OV [GROUP 1]

PHASE OV1: Function	Disabled
PHASE OV1: Source	SRC 1 (SRC 1)
PHASE OV1: Pickup	1.000 pu
PHASE OV1: Delay	1.00 s
PHASE OV1: Reset Delay	1.00 s
PHASE OV1: Block	OFF
PHASE OV1: Target	Self-reset
PHASE OV1: Events	Disabled

NEUTRAL OV [GROUP 1]

NEUTRAL OV 1: Function	Disabled
NEUTRAL OV 1: Source	SRC 1 (SRC 1)
NEUTRAL OV 1: Pickup	0.300 pu
NEUTRAL OV 1: Curve	Definite Time
NEUTRAL OV 1: Pickup Delay	1.00 s
NEUTRAL OV 1: Reset Delay	1.00 s
NEUTRAL OV 1: Block	OFF
NEUTRAL OV 1: Target	Self-reset
NEUTRAL OV 1: Events	Disabled
NEUTRAL OV 2: Function	Disabled
NEUTRAL OV 2: Source	SRC 1 (SRC 1)
NEUTRAL OV 2: Pickup	0.300 pu
NEUTRAL OV 2: Curve	Definite Time
NEUTRAL OV 2: Pickup Delay	1.00 s
NEUTRAL OV 2: Reset Delay	1.00 s
NEUTRAL OV 2: Block	OFF
NEUTRAL OV 2: Target	Self-reset
NEUTRAL OV 2: Events	Disabled
NEUTRAL OV 3: Function	Disabled
NEUTRAL OV 3: Source	SRC 1 (SRC 1)
NEUTRAL OV 3: Pickup	0.300 pu
NEUTRAL OV 3: Curve	Definite Time
NEUTRAL OV 3: Pickup Delay	1.00 s
NEUTRAL OV 3: Reset Delay	1.00 s
NEUTRAL OV 3: Block	OFF
NEUTRAL OV 3: Target	Self-reset
NEUTRAL OV 3: Events	Disabled

NEGATIVE SEQUENCE OV [GROUP 1]

NEG SEQ OV1: Function	Disabled
NEG SEQ OV1: Source	SRC 1 (SRC 1)
NEG SEQ OV1: Pickup	0.300 pu
NEG SEQ OV1: Pickup Delay	0.50 s
NEG SEQ OV1: Reset Delay	0.50 s
NEG SEQ OV1: Block	OFF
NEG SEQ OV1: Target	Self-reset
NEG SEQ OV1: Events	Disabled
NEG SEQ OV2: Function	Disabled
NEG SEQ OV2: Source	SRC 1 (SRC 1)
NEG SEQ OV2: Pickup	0.300 pu
NEG SEQ OV2: Pickup Delay	0.50 s
NEG SEQ OV2: Reset Delay	0.50 s
NEG SEQ OV2: Block	OFF
NEG SEQ OV2: Target	Self-reset
NEG SEQ OV2: Events	Disabled
NEG SEQ OV3: Function	Disabled
NEG SEQ OV3: Source	SRC 1 (SRC 1)
NEG SEQ OV3: Pickup	0.300 pu
NEG SEQ OV3: Pickup Delay	0.50 s
NEG SEQ OV3: Reset Delay	0.50 s
NEG SEQ OV3: Block	OFF
NEG SEQ OV3: Target	Self-reset
NEG SEQ OV3: Events	Disabled

AUXILIARY UV [GROUP 1]

AUXILIARY UV 1: Function	Disabled
AUXILIARY UV 1: Source	SRC 1 (SRC 1)
AUXILIARY UV 1: Pickup	0.700 pu
AUXILIARY UV 1: Curve	Definite Time
AUXILIARY UV 1: Delay	1.00 s

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## DEVICE DEFINITION

## DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000468  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
 DESCRIPTION: PACO B1  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

AUXILIARY UV [GROUP 1] (continued from last page)

AUXILIARY UV 1: Minimum Voltage	0.100 pu
AUXILIARY UV 1: Block	OFF
AUXILIARY UV 1: Target	Self-reset
AUXILIARY UV 1: Events	Disabled

AUXILIARY OV [GROUP 1]

AUXILIARY OV 1: Function	Disabled
AUXILIARY OV 1: Source	SRC 1 (SRC 1)
AUXILIARY OV 1: Pickup	0.300 pu
AUXILIARY OV 1: Pickup Delay	1.00 s
AUXILIARY OV 1: Reset Delay	1.00 s
AUXILIARY OV 1: Block	OFF
AUXILIARY OV 1: Target	Self-reset
AUXILIARY OV 1: Events	Disabled

## CONTROL ELEMENTS

TRIP BUS

Trip Bus 1 Function	Enabled
Trip Bus 1 Block	OFF
Trip Bus 1 Pickup Delay	0.00 s
Trip Bus 1 Reset Delay	0.00 s
Trip Bus 1 Input 1	Fallas zonas On (VO3)
Trip Bus 1 Input 2	OFF
Trip Bus 1 Input 3	OFF
Trip Bus 1 Input 4	OFF
Trip Bus 1 Input 5	OFF
Trip Bus 1 Input 6	OFF
Trip Bus 1 Input 7	OFF
Trip Bus 1 Input 8	OFF
Trip Bus 1 Input 9	OFF
Trip Bus 1 Input 10	OFF
Trip Bus 1 Input 11	OFF
Trip Bus 1 Input 12	OFF
Trip Bus 1 Input 13	OFF
Trip Bus 1 Input 14	OFF
Trip Bus 1 Input 15	OFF
Trip Bus 1 Input 16	OFF
Trip Bus 1 Latching	Disabled
Trip Bus 1 Reset	OFF
Trip Bus 1 Target	Self-reset
Trip Bus 1 Events	Enabled
Trip Bus 2 Function	Disabled
Trip Bus 2 Block	OFF
Trip Bus 2 Pickup Delay	0.00 s
Trip Bus 2 Reset Delay	0.00 s
Trip Bus 2 Input 1	OFF
Trip Bus 2 Input 2	OFF
Trip Bus 2 Input 3	OFF
Trip Bus 2 Input 4	OFF
Trip Bus 2 Input 5	OFF
Trip Bus 2 Input 6	OFF
Trip Bus 2 Input 7	OFF
Trip Bus 2 Input 8	OFF
Trip Bus 2 Input 9	OFF
Trip Bus 2 Input 10	OFF
Trip Bus 2 Input 11	OFF
Trip Bus 2 Input 12	OFF
Trip Bus 2 Input 13	OFF
Trip Bus 2 Input 14	OFF
Trip Bus 2 Input 15	OFF
Trip Bus 2 Input 16	OFF
Trip Bus 2 Latching	Disabled
Trip Bus 2 Reset	OFF
Trip Bus 2 Target	Self-reset
Trip Bus 2 Events	Disabled
Trip Bus 3 Function	Disabled
Trip Bus 3 Block	OFF
Trip Bus 3 Pickup Delay	0.00 s
Trip Bus 3 Reset Delay	0.00 s
Trip Bus 3 Input 1	OFF
Trip Bus 3 Input 2	OFF

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## DEVICE DEFINITION

## DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000468  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
 DESCRIPTION: PACO B1  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

## TRIP BUS (continued from last page)

Trip Bus 3 Input 3	OFF
Trip Bus 3 Input 4	OFF
Trip Bus 3 Input 5	OFF
Trip Bus 3 Input 6	OFF
Trip Bus 3 Input 7	OFF
Trip Bus 3 Input 8	OFF
Trip Bus 3 Input 9	OFF
Trip Bus 3 Input 10	OFF
Trip Bus 3 Input 11	OFF
Trip Bus 3 Input 12	OFF
Trip Bus 3 Input 13	OFF
Trip Bus 3 Input 14	OFF
Trip Bus 3 Input 15	OFF
Trip Bus 3 Input 16	OFF
Trip Bus 3 Latching	Disabled
Trip Bus 3 Reset	OFF
Trip Bus 3 Target	Self-reset
Trip Bus 3 Events	Disabled
Trip Bus 4 Function	Disabled
Trip Bus 4 Block	OFF
Trip Bus 4 Pickup Delay	0.00 s
Trip Bus 4 Reset Delay	0.00 s
Trip Bus 4 Input 1	OFF
Trip Bus 4 Input 2	OFF
Trip Bus 4 Input 3	OFF
Trip Bus 4 Input 4	OFF
Trip Bus 4 Input 5	OFF
Trip Bus 4 Input 6	OFF
Trip Bus 4 Input 7	OFF
Trip Bus 4 Input 8	OFF
Trip Bus 4 Input 9	OFF
Trip Bus 4 Input 10	OFF
Trip Bus 4 Input 11	OFF
Trip Bus 4 Input 12	OFF
Trip Bus 4 Input 13	OFF
Trip Bus 4 Input 14	OFF
Trip Bus 4 Input 15	OFF
Trip Bus 4 Input 16	OFF
Trip Bus 4 Latching	Disabled
Trip Bus 4 Reset	OFF
Trip Bus 4 Target	Self-reset
Trip Bus 4 Events	Disabled
Trip Bus 5 Function	Disabled
Trip Bus 5 Block	OFF
Trip Bus 5 Pickup Delay	0.00 s
Trip Bus 5 Reset Delay	0.00 s
Trip Bus 5 Input 1	OFF
Trip Bus 5 Input 2	OFF
Trip Bus 5 Input 3	OFF
Trip Bus 5 Input 4	OFF
Trip Bus 5 Input 5	OFF
Trip Bus 5 Input 6	OFF
Trip Bus 5 Input 7	OFF
Trip Bus 5 Input 8	OFF
Trip Bus 5 Input 9	OFF
Trip Bus 5 Input 10	OFF
Trip Bus 5 Input 11	OFF
Trip Bus 5 Input 12	OFF
Trip Bus 5 Input 13	OFF
Trip Bus 5 Input 14	OFF
Trip Bus 5 Input 15	OFF
Trip Bus 5 Input 16	OFF
Trip Bus 5 Latching	Disabled
Trip Bus 5 Reset	OFF
Trip Bus 5 Target	Self-reset
Trip Bus 5 Events	Disabled
Trip Bus 6 Function	Disabled
Trip Bus 6 Block	OFF
Trip Bus 6 Pickup Delay	0.00 s
Trip Bus 6 Reset Delay	0.00 s
Trip Bus 6 Input 1	OFF

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DEVICE DEFINITION

DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000468  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
 DESCRIPTION: PACO B1  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

TRIP BUS (continued from last page)

Trip Bus 6 Input 2	OFF
Trip Bus 6 Input 3	OFF
Trip Bus 6 Input 4	OFF
Trip Bus 6 Input 5	OFF
Trip Bus 6 Input 6	OFF
Trip Bus 6 Input 7	OFF
Trip Bus 6 Input 8	OFF
Trip Bus 6 Input 9	OFF
Trip Bus 6 Input 10	OFF
Trip Bus 6 Input 11	OFF
Trip Bus 6 Input 12	OFF
Trip Bus 6 Input 13	OFF
Trip Bus 6 Input 14	OFF
Trip Bus 6 Input 15	OFF
Trip Bus 6 Input 16	OFF
Trip Bus 6 Latching	Disabled
Trip Bus 6 Reset	OFF
Trip Bus 6 Target	Self-reset
Trip Bus 6 Events	Disabled

SETTING GROUPS

Function	Disabled
Block	OFF
Group 2 Activate On	OFF
Group 3 Activate On	OFF
Group 4 Activate On	OFF
Group 5 Activate On	OFF
Group 6 Activate On	OFF
Group 1 Name	
Group 2 Name	
Group 3 Name	
Group 4 Name	
Group 5 Name	
Group 6 Name	
Events	Disabled

SELECTOR SWITCHES

SELECTOR SWITCH 1: Function	Disabled
SELECTOR SWITCH 1: Full Range	7
SELECTOR SWITCH 1: Timeout	5.0 s
SELECTOR SWITCH 1: Step-Up	OFF
SELECTOR SWITCH 1: Step-Up Mode	Time-out
SELECTOR SWITCH 1: Acknowledge	OFF
SELECTOR SWITCH 1: 3Bit A0	OFF
SELECTOR SWITCH 1: 3Bit A1	OFF
SELECTOR SWITCH 1: 3Bit A2	OFF
SELECTOR SWITCH 1: 3Bit Mode	Time-out
SELECTOR SWITCH 1: 3Bit Ack	OFF
SELECTOR SWITCH 1: Power-Up Mode	Restore
SELECTOR SWITCH 1: Targets	Self-reset
SELECTOR SWITCH 1: Events	Disabled
SELECTOR SWITCH 2: Function	Disabled
SELECTOR SWITCH 2: Full Range	7
SELECTOR SWITCH 2: Timeout	5.0 s
SELECTOR SWITCH 2: Step-Up	OFF
SELECTOR SWITCH 2: Step-Up Mode	Time-out
SELECTOR SWITCH 2: Acknowledge	OFF
SELECTOR SWITCH 2: 3Bit A0	OFF
SELECTOR SWITCH 2: 3Bit A1	OFF
SELECTOR SWITCH 2: 3Bit A2	OFF
SELECTOR SWITCH 2: 3Bit Mode	Time-out
SELECTOR SWITCH 2: 3Bit Ack	OFF
SELECTOR SWITCH 2: Power-Up Mode	Restore
SELECTOR SWITCH 2: Targets	Self-reset
SELECTOR SWITCH 2: Events	Disabled

TRIP OUTPUT

Trip Mode	3 Pole Only
Trip 3-Pole Input1	OFF
Trip 3-Pole Input2	OFF
Trip 3-Pole Input3	OFF

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VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B1\SE LMO BACKUP DEJADO PS2 PACO B01\_06082020\

## DEVICE DEFINITION

## DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67

VERSION: 5.5X

UR SERIAL NUMBER: AABC08000468

SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11

DESCRIPTION: PACO B1

TEXT COLOR

ASSOCIATED DEVICE: (NONE)

TRIP OUTPUT (continued from last page)

Trip 3-Pole Input4	OFF
Trip 3-Pole Input5	OFF
Trip 3-Pole Input6	OFF
Trip 1-Pole Input1	OFF
Trip 1-Pole Input2	OFF
Trip 1-Pole Input3	OFF
Trip 1-Pole Input4	OFF
Trip 1-Pole Input5	OFF
Trip 1-Pole Input6	OFF
Trip Reclose Input1	OFF
Trip Reclose Input2	OFF
Trip Reclose Input3	OFF
Trip Reclose Input4	OFF
Trip Reclose Input5	OFF
Trip Reclose Input6	OFF
BKR Phase A Open	LINE PICKUP I<A
BKR Phase B Open	LINE PICKUP I<B
BKR Phase C Open	LINE PICKUP I<C
Trip Force 3-Pole	OFF
Trip Pilot Priority	0.000 s
Reverse Fault	OFF
Trip Delay On Evolving Faults	0.000 s
Trip Events	Enabled

SYNCHROCHECK

SYNCHROCHECK1: Function	Disabled
SYNCHROCHECK1: Block	OFF
SYNCHROCHECK1: V1 Source	SRC 1 (SRC 1)
SYNCHROCHECK1: V2 Source	SRC 2 (SRC 2)
SYNCHROCHECK1: Max Volt Diff	10000 V
SYNCHROCHECK1: Max Angle Diff	30 deg
SYNCHROCHECK1: Max Freq Diff	1.00 Hz
SYNCHROCHECK1: Max Freq Hysteresis	0.06 Hz
SYNCHROCHECK1: Dead Source Select	LV1 and DV2
SYNCHROCHECK1: Dead V1 Max Volt	0.30 pu
SYNCHROCHECK1: Dead V2 Max Volt	0.30 pu
SYNCHROCHECK1: Live V1 Min Volt	0.70 pu
SYNCHROCHECK1: Live V2 Min Volt	0.70 pu
SYNCHROCHECK1: Target	Self-reset
SYNCHROCHECK1: Events	Disabled
SYNCHROCHECK2: Function	Disabled
SYNCHROCHECK2: Block	OFF
SYNCHROCHECK2: V1 Source	SRC 1 (SRC 1)
SYNCHROCHECK2: V2 Source	SRC 2 (SRC 2)
SYNCHROCHECK2: Max Volt Diff	10000 V
SYNCHROCHECK2: Max Angle Diff	30 deg
SYNCHROCHECK2: Max Freq Diff	1.00 Hz
SYNCHROCHECK2: Max Freq Hysteresis	0.06 Hz
SYNCHROCHECK2: Dead Source Select	LV1 and DV2
SYNCHROCHECK2: Dead V1 Max Volt	0.30 pu
SYNCHROCHECK2: Dead V2 Max Volt	0.30 pu
SYNCHROCHECK2: Live V1 Min Volt	0.70 pu
SYNCHROCHECK2: Live V2 Min Volt	0.70 pu
SYNCHROCHECK2: Target	Self-reset
SYNCHROCHECK2: Events	Disabled

DIGITAL ELEMENTS

Digital Element 1 Function	Disabled
Digital Element 1 Name	Dig Element 1
Digital Element 1 Input	OFF
Digital Element 1 Pickup Delay	0.000 s
Digital Element 1 Reset Delay	0.000 s
Digital Element 1 Pickup Led	Enabled
Digital Element 1 Block	OFF
Digital Element 1 Target	Self-reset
Digital Element 1 Events	Disabled
Digital Element 2 Function	Disabled
Digital Element 2 Name	Dig Element 2
Digital Element 2 Input	OFF
Digital Element 2 Pickup Delay	0.000 s
Digital Element 2 Reset Delay	0.000 s

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## DEVICE DEFINITION

## DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000468  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
 DESCRIPTION: PACO B1  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

## DIGITAL ELEMENTS (continued from last page)

Digital Element 2 Pickup Led	Enabled
Digital Element 2 Block	OFF
Digital Element 2 Target	Self-reset
Digital Element 2 Events	Disabled
Digital Element 3 Function	Disabled
Digital Element 3 Name	Dig Element 3
Digital Element 3 Input	OFF
Digital Element 3 Pickup Delay	0.000 s
Digital Element 3 Reset Delay	0.000 s
Digital Element 3 Pickup Led	Enabled
Digital Element 3 Block	OFF
Digital Element 3 Target	Self-reset
Digital Element 3 Events	Disabled
Digital Element 4 Function	Disabled
Digital Element 4 Name	Dig Element 4
Digital Element 4 Input	OFF
Digital Element 4 Pickup Delay	0.000 s
Digital Element 4 Reset Delay	0.000 s
Digital Element 4 Pickup Led	Enabled
Digital Element 4 Block	OFF
Digital Element 4 Target	Self-reset
Digital Element 4 Events	Disabled
Digital Element 5 Function	Disabled
Digital Element 5 Name	Dig Element 5
Digital Element 5 Input	OFF
Digital Element 5 Pickup Delay	0.000 s
Digital Element 5 Reset Delay	0.000 s
Digital Element 5 Pickup Led	Enabled
Digital Element 5 Block	OFF
Digital Element 5 Target	Self-reset
Digital Element 5 Events	Disabled
Digital Element 6 Function	Disabled
Digital Element 6 Name	Dig Element 6
Digital Element 6 Input	OFF
Digital Element 6 Pickup Delay	0.000 s
Digital Element 6 Reset Delay	0.000 s
Digital Element 6 Pickup Led	Enabled
Digital Element 6 Block	OFF
Digital Element 6 Target	Self-reset
Digital Element 6 Events	Disabled
Digital Element 7 Function	Disabled
Digital Element 7 Name	Dig Element 7
Digital Element 7 Input	OFF
Digital Element 7 Pickup Delay	0.000 s
Digital Element 7 Reset Delay	0.000 s
Digital Element 7 Pickup Led	Enabled
Digital Element 7 Block	OFF
Digital Element 7 Target	Self-reset
Digital Element 7 Events	Disabled
Digital Element 8 Function	Disabled
Digital Element 8 Name	Dig Element 8
Digital Element 8 Input	OFF
Digital Element 8 Pickup Delay	0.000 s
Digital Element 8 Reset Delay	0.000 s
Digital Element 8 Pickup Led	Enabled
Digital Element 8 Block	OFF
Digital Element 8 Target	Self-reset
Digital Element 8 Events	Disabled
Digital Element 9 Function	Disabled
Digital Element 9 Name	Dig Element 9
Digital Element 9 Input	OFF
Digital Element 9 Pickup Delay	0.000 s
Digital Element 9 Reset Delay	0.000 s
Digital Element 9 Pickup Led	Enabled
Digital Element 9 Block	OFF
Digital Element 9 Target	Self-reset
Digital Element 9 Events	Disabled
Digital Element 10 Function	Disabled
Digital Element 10 Name	Dig Element 10
Digital Element 10 Input	OFF
Digital Element 10 Pickup Delay	0.000 s

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 VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B1\SE LMO BACKUP DEJADO PS2 PACO B01\_06082020\

## DEVICE DEFINITION

## DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000468  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
 DESCRIPTION: PACO B1  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

## DIGITAL ELEMENTS (continued from last page)

Digital Element 10 Reset Delay	0.000 s
Digital Element 10 Pickup Led	Enabled
Digital Element 10 Block	OFF
Digital Element 10 Target	Self-reset
Digital Element 10 Events	Disabled
Digital Element 11 Function	Disabled
Digital Element 11 Name	Dig Element 11
Digital Element 11 Input	OFF
Digital Element 11 Pickup Delay	0.000 s
Digital Element 11 Reset Delay	0.000 s
Digital Element 11 Pickup Led	Enabled
Digital Element 11 Block	OFF
Digital Element 11 Target	Self-reset
Digital Element 11 Events	Disabled
Digital Element 12 Function	Disabled
Digital Element 12 Name	Dig Element 12
Digital Element 12 Input	OFF
Digital Element 12 Pickup Delay	0.000 s
Digital Element 12 Reset Delay	0.000 s
Digital Element 12 Pickup Led	Enabled
Digital Element 12 Block	OFF
Digital Element 12 Target	Self-reset
Digital Element 12 Events	Disabled
Digital Element 13 Function	Disabled
Digital Element 13 Name	Dig Element 13
Digital Element 13 Input	OFF
Digital Element 13 Pickup Delay	0.000 s
Digital Element 13 Reset Delay	0.000 s
Digital Element 13 Pickup Led	Enabled
Digital Element 13 Block	OFF
Digital Element 13 Target	Self-reset
Digital Element 13 Events	Disabled
Digital Element 14 Function	Disabled
Digital Element 14 Name	Dig Element 14
Digital Element 14 Input	OFF
Digital Element 14 Pickup Delay	0.000 s
Digital Element 14 Reset Delay	0.000 s
Digital Element 14 Pickup Led	Enabled
Digital Element 14 Block	OFF
Digital Element 14 Target	Self-reset
Digital Element 14 Events	Disabled
Digital Element 15 Function	Disabled
Digital Element 15 Name	Dig Element 15
Digital Element 15 Input	OFF
Digital Element 15 Pickup Delay	0.000 s
Digital Element 15 Reset Delay	0.000 s
Digital Element 15 Pickup Led	Enabled
Digital Element 15 Block	OFF
Digital Element 15 Target	Self-reset
Digital Element 15 Events	Disabled
Digital Element 16 Function	Disabled
Digital Element 16 Name	Dig Element 16
Digital Element 16 Input	OFF
Digital Element 16 Pickup Delay	0.000 s
Digital Element 16 Reset Delay	0.000 s
Digital Element 16 Pickup Led	Enabled
Digital Element 16 Block	OFF
Digital Element 16 Target	Self-reset
Digital Element 16 Events	Disabled
Digital Element 17 Function	Disabled
Digital Element 17 Name	Dig Element 17
Digital Element 17 Input	OFF
Digital Element 17 Pickup Delay	0.000 s
Digital Element 17 Reset Delay	0.000 s
Digital Element 17 Pickup Led	Enabled
Digital Element 17 Block	OFF
Digital Element 17 Target	Self-reset
Digital Element 17 Events	Disabled
Digital Element 18 Function	Disabled
Digital Element 18 Name	Dig Element 18
Digital Element 18 Input	OFF



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## DEVICE DEFINITION

## DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000468  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
 DESCRIPTION: PACO B1  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

## DIGITAL ELEMENTS (continued from last page)

Digital Element 18 Pickup Delay	0.000 s
Digital Element 18 Reset Delay	0.000 s
Digital Element 18 Pickup Led	Enabled
Digital Element 18 Block	OFF
Digital Element 18 Target	Self-reset
Digital Element 18 Events	Disabled
Digital Element 19 Function	Disabled
Digital Element 19 Name	Dig Element 19
Digital Element 19 Input	OFF
Digital Element 19 Pickup Delay	0.000 s
Digital Element 19 Reset Delay	0.000 s
Digital Element 19 Pickup Led	Enabled
Digital Element 19 Block	OFF
Digital Element 19 Target	Self-reset
Digital Element 19 Events	Disabled
Digital Element 20 Function	Disabled
Digital Element 20 Name	Dig Element 20
Digital Element 20 Input	OFF
Digital Element 20 Pickup Delay	0.000 s
Digital Element 20 Reset Delay	0.000 s
Digital Element 20 Pickup Led	Enabled
Digital Element 20 Block	OFF
Digital Element 20 Target	Self-reset
Digital Element 20 Events	Disabled
Digital Element 21 Function	Disabled
Digital Element 21 Name	Dig Element 21
Digital Element 21 Input	OFF
Digital Element 21 Pickup Delay	0.000 s
Digital Element 21 Reset Delay	0.000 s
Digital Element 21 Pickup Led	Enabled
Digital Element 21 Block	OFF
Digital Element 21 Target	Self-reset
Digital Element 21 Events	Disabled
Digital Element 22 Function	Disabled
Digital Element 22 Name	Dig Element 22
Digital Element 22 Input	OFF
Digital Element 22 Pickup Delay	0.000 s
Digital Element 22 Reset Delay	0.000 s
Digital Element 22 Pickup Led	Enabled
Digital Element 22 Block	OFF
Digital Element 22 Target	Self-reset
Digital Element 22 Events	Disabled
Digital Element 23 Function	Disabled
Digital Element 23 Name	Dig Element 23
Digital Element 23 Input	OFF
Digital Element 23 Pickup Delay	0.000 s
Digital Element 23 Reset Delay	0.000 s
Digital Element 23 Pickup Led	Enabled
Digital Element 23 Block	OFF
Digital Element 23 Target	Self-reset
Digital Element 23 Events	Disabled
Digital Element 24 Function	Disabled
Digital Element 24 Name	Dig Element 24
Digital Element 24 Input	OFF
Digital Element 24 Pickup Delay	0.000 s
Digital Element 24 Reset Delay	0.000 s
Digital Element 24 Pickup Led	Enabled
Digital Element 24 Block	OFF
Digital Element 24 Target	Self-reset
Digital Element 24 Events	Disabled
Digital Element 25 Function	Disabled
Digital Element 25 Name	Dig Element 25
Digital Element 25 Input	OFF
Digital Element 25 Pickup Delay	0.000 s
Digital Element 25 Reset Delay	0.000 s
Digital Element 25 Pickup Led	Enabled
Digital Element 25 Block	OFF
Digital Element 25 Target	Self-reset
Digital Element 25 Events	Disabled
Digital Element 26 Function	Disabled
Digital Element 26 Name	Dig Element 26

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## DEVICE DEFINITION

## DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000468  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
 DESCRIPTION: PACO B1  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

## DIGITAL ELEMENTS (continued from last page)

Digital Element 26 Input	OFF
Digital Element 26 Pickup Delay	0.000 s
Digital Element 26 Reset Delay	0.000 s
Digital Element 26 Pickup Led	Enabled
Digital Element 26 Block	OFF
Digital Element 26 Target	Self-reset
Digital Element 26 Events	Disabled
Digital Element 27 Function	Disabled
Digital Element 27 Name	Dig Element 27
Digital Element 27 Input	OFF
Digital Element 27 Pickup Delay	0.000 s
Digital Element 27 Reset Delay	0.000 s
Digital Element 27 Pickup Led	Enabled
Digital Element 27 Block	OFF
Digital Element 27 Target	Self-reset
Digital Element 27 Events	Disabled
Digital Element 28 Function	Disabled
Digital Element 28 Name	Dig Element 28
Digital Element 28 Input	OFF
Digital Element 28 Pickup Delay	0.000 s
Digital Element 28 Reset Delay	0.000 s
Digital Element 28 Pickup Led	Enabled
Digital Element 28 Block	OFF
Digital Element 28 Target	Self-reset
Digital Element 28 Events	Disabled
Digital Element 29 Function	Disabled
Digital Element 29 Name	Dig Element 29
Digital Element 29 Input	OFF
Digital Element 29 Pickup Delay	0.000 s
Digital Element 29 Reset Delay	0.000 s
Digital Element 29 Pickup Led	Enabled
Digital Element 29 Block	OFF
Digital Element 29 Target	Self-reset
Digital Element 29 Events	Disabled
Digital Element 30 Function	Disabled
Digital Element 30 Name	Dig Element 30
Digital Element 30 Input	OFF
Digital Element 30 Pickup Delay	0.000 s
Digital Element 30 Reset Delay	0.000 s
Digital Element 30 Pickup Led	Enabled
Digital Element 30 Block	OFF
Digital Element 30 Target	Self-reset
Digital Element 30 Events	Disabled
Digital Element 31 Function	Disabled
Digital Element 31 Name	Dig Element 31
Digital Element 31 Input	OFF
Digital Element 31 Pickup Delay	0.000 s
Digital Element 31 Reset Delay	0.000 s
Digital Element 31 Pickup Led	Enabled
Digital Element 31 Block	OFF
Digital Element 31 Target	Self-reset
Digital Element 31 Events	Disabled
Digital Element 32 Function	Disabled
Digital Element 32 Name	Dig Element 32
Digital Element 32 Input	OFF
Digital Element 32 Pickup Delay	0.000 s
Digital Element 32 Reset Delay	0.000 s
Digital Element 32 Pickup Led	Enabled
Digital Element 32 Block	OFF
Digital Element 32 Target	Self-reset
Digital Element 32 Events	Disabled
Digital Element 33 Function	Disabled
Digital Element 33 Name	Dig Element 33
Digital Element 33 Input	OFF
Digital Element 33 Pickup Delay	0.000 s
Digital Element 33 Reset Delay	0.000 s
Digital Element 33 Pickup Led	Enabled
Digital Element 33 Block	OFF
Digital Element 33 Target	Self-reset
Digital Element 33 Events	Disabled
Digital Element 34 Function	Disabled

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## DEVICE DEFINITION

## DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000468  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
 DESCRIPTION: PACO B1  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

## DIGITAL ELEMENTS (continued from last page)

Digital Element 34 Name	Dig Element 34
Digital Element 34 Input	OFF
Digital Element 34 Pickup Delay	0.000 s
Digital Element 34 Reset Delay	0.000 s
Digital Element 34 Pickup Led	Enabled
Digital Element 34 Block	OFF
Digital Element 34 Target	Self-reset
Digital Element 34 Events	Disabled
Digital Element 35 Function	Disabled
Digital Element 35 Name	Dig Element 35
Digital Element 35 Input	OFF
Digital Element 35 Pickup Delay	0.000 s
Digital Element 35 Reset Delay	0.000 s
Digital Element 35 Pickup Led	Enabled
Digital Element 35 Block	OFF
Digital Element 35 Target	Self-reset
Digital Element 35 Events	Disabled
Digital Element 36 Function	Disabled
Digital Element 36 Name	Dig Element 36
Digital Element 36 Input	OFF
Digital Element 36 Pickup Delay	0.000 s
Digital Element 36 Reset Delay	0.000 s
Digital Element 36 Pickup Led	Enabled
Digital Element 36 Block	OFF
Digital Element 36 Target	Self-reset
Digital Element 36 Events	Disabled
Digital Element 37 Function	Disabled
Digital Element 37 Name	Dig Element 37
Digital Element 37 Input	OFF
Digital Element 37 Pickup Delay	0.000 s
Digital Element 37 Reset Delay	0.000 s
Digital Element 37 Pickup Led	Enabled
Digital Element 37 Block	OFF
Digital Element 37 Target	Self-reset
Digital Element 37 Events	Disabled
Digital Element 38 Function	Disabled
Digital Element 38 Name	Dig Element 38
Digital Element 38 Input	OFF
Digital Element 38 Pickup Delay	0.000 s
Digital Element 38 Reset Delay	0.000 s
Digital Element 38 Pickup Led	Enabled
Digital Element 38 Block	OFF
Digital Element 38 Target	Self-reset
Digital Element 38 Events	Disabled
Digital Element 39 Function	Disabled
Digital Element 39 Name	Dig Element 39
Digital Element 39 Input	OFF
Digital Element 39 Pickup Delay	0.000 s
Digital Element 39 Reset Delay	0.000 s
Digital Element 39 Pickup Led	Enabled
Digital Element 39 Block	OFF
Digital Element 39 Target	Self-reset
Digital Element 39 Events	Disabled
Digital Element 40 Function	Disabled
Digital Element 40 Name	Dig Element 40
Digital Element 40 Input	OFF
Digital Element 40 Pickup Delay	0.000 s
Digital Element 40 Reset Delay	0.000 s
Digital Element 40 Pickup Led	Enabled
Digital Element 40 Block	OFF
Digital Element 40 Target	Self-reset
Digital Element 40 Events	Disabled
Digital Element 41 Function	Disabled
Digital Element 41 Name	Dig Element 41
Digital Element 41 Input	OFF
Digital Element 41 Pickup Delay	0.000 s
Digital Element 41 Reset Delay	0.000 s
Digital Element 41 Pickup Led	Enabled
Digital Element 41 Block	OFF
Digital Element 41 Target	Self-reset
Digital Element 41 Events	Disabled

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## DEVICE DEFINITION

## DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000468  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
 DESCRIPTION: PACO B1  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

## DIGITAL ELEMENTS (continued from last page)

Digital Element 42 Function	Disabled
Digital Element 42 Name	Dig Element 42
Digital Element 42 Input	OFF
Digital Element 42 Pickup Delay	0.000 s
Digital Element 42 Reset Delay	0.000 s
Digital Element 42 Pickup Led	Enabled
Digital Element 42 Block	OFF
Digital Element 42 Target	Self-reset
Digital Element 42 Events	Disabled
Digital Element 43 Function	Disabled
Digital Element 43 Name	Dig Element 43
Digital Element 43 Input	OFF
Digital Element 43 Pickup Delay	0.000 s
Digital Element 43 Reset Delay	0.000 s
Digital Element 43 Pickup Led	Enabled
Digital Element 43 Block	OFF
Digital Element 43 Target	Self-reset
Digital Element 43 Events	Disabled
Digital Element 44 Function	Disabled
Digital Element 44 Name	Dig Element 44
Digital Element 44 Input	OFF
Digital Element 44 Pickup Delay	0.000 s
Digital Element 44 Reset Delay	0.000 s
Digital Element 44 Pickup Led	Enabled
Digital Element 44 Block	OFF
Digital Element 44 Target	Self-reset
Digital Element 44 Events	Disabled
Digital Element 45 Function	Disabled
Digital Element 45 Name	Dig Element 45
Digital Element 45 Input	OFF
Digital Element 45 Pickup Delay	0.000 s
Digital Element 45 Reset Delay	0.000 s
Digital Element 45 Pickup Led	Enabled
Digital Element 45 Block	OFF
Digital Element 45 Target	Self-reset
Digital Element 45 Events	Disabled
Digital Element 46 Function	Disabled
Digital Element 46 Name	Dig Element 46
Digital Element 46 Input	OFF
Digital Element 46 Pickup Delay	0.000 s
Digital Element 46 Reset Delay	0.000 s
Digital Element 46 Pickup Led	Enabled
Digital Element 46 Block	OFF
Digital Element 46 Target	Self-reset
Digital Element 46 Events	Disabled
Digital Element 47 Function	Disabled
Digital Element 47 Name	Dig Element 47
Digital Element 47 Input	OFF
Digital Element 47 Pickup Delay	0.000 s
Digital Element 47 Reset Delay	0.000 s
Digital Element 47 Pickup Led	Enabled
Digital Element 47 Block	OFF
Digital Element 47 Target	Self-reset
Digital Element 47 Events	Disabled
Digital Element 48 Function	Disabled
Digital Element 48 Name	Dig Element 48
Digital Element 48 Input	OFF
Digital Element 48 Pickup Delay	0.000 s
Digital Element 48 Reset Delay	0.000 s
Digital Element 48 Pickup Led	Enabled
Digital Element 48 Block	OFF
Digital Element 48 Target	Self-reset
Digital Element 48 Events	Disabled

## DIGITAL COUNTERS

Digital Counter 1 Function	Disabled
Digital Counter 1 Name	Counter 1
Digital Counter 1 Units	
Digital Counter 1 Preset	0
Digital Counter 1 Compare	0
Digital Counter 1 Up	OFF

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DEVICE DEFINITION

DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000468  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
 DESCRIPTION: PACO B1  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

DIGITAL COUNTERS (continued from last page)

Digital Counter 1 Down	OFF
Digital Counter 1 Block	OFF
Digital Counter 1 Set To Preset	OFF
Digital Counter 1 Reset	OFF
Digital Counter 1 Freeze/Reset	OFF
Digital Counter 1 Freeze/Count	OFF
Digital Counter 2 Function	Disabled
Digital Counter 2 Name	Counter 2
Digital Counter 2 Units	
Digital Counter 2 Preset	0
Digital Counter 2 Compare	0
Digital Counter 2 Up	OFF
Digital Counter 2 Down	OFF
Digital Counter 2 Block	OFF
Digital Counter 2 Set To Preset	OFF
Digital Counter 2 Reset	OFF
Digital Counter 2 Freeze/Reset	OFF
Digital Counter 2 Freeze/Count	OFF
Digital Counter 3 Function	Disabled
Digital Counter 3 Name	Counter 3
Digital Counter 3 Units	
Digital Counter 3 Preset	0
Digital Counter 3 Compare	0
Digital Counter 3 Up	OFF
Digital Counter 3 Down	OFF
Digital Counter 3 Block	OFF
Digital Counter 3 Set To Preset	OFF
Digital Counter 3 Reset	OFF
Digital Counter 3 Freeze/Reset	OFF
Digital Counter 3 Freeze/Count	OFF
Digital Counter 4 Function	Disabled
Digital Counter 4 Name	Counter 4
Digital Counter 4 Units	
Digital Counter 4 Preset	0
Digital Counter 4 Compare	0
Digital Counter 4 Up	OFF
Digital Counter 4 Down	OFF
Digital Counter 4 Block	OFF
Digital Counter 4 Set To Preset	OFF
Digital Counter 4 Reset	OFF
Digital Counter 4 Freeze/Reset	OFF
Digital Counter 4 Freeze/Count	OFF
Digital Counter 5 Function	Disabled
Digital Counter 5 Name	Counter 5
Digital Counter 5 Units	
Digital Counter 5 Preset	0
Digital Counter 5 Compare	0
Digital Counter 5 Up	OFF
Digital Counter 5 Down	OFF
Digital Counter 5 Block	OFF
Digital Counter 5 Set To Preset	OFF
Digital Counter 5 Reset	OFF
Digital Counter 5 Freeze/Reset	OFF
Digital Counter 5 Freeze/Count	OFF
Digital Counter 6 Function	Disabled
Digital Counter 6 Name	Counter 6
Digital Counter 6 Units	
Digital Counter 6 Preset	0
Digital Counter 6 Compare	0
Digital Counter 6 Up	OFF
Digital Counter 6 Down	OFF
Digital Counter 6 Block	OFF
Digital Counter 6 Set To Preset	OFF
Digital Counter 6 Reset	OFF
Digital Counter 6 Freeze/Reset	OFF
Digital Counter 6 Freeze/Count	OFF
Digital Counter 7 Function	Disabled
Digital Counter 7 Name	Counter 7
Digital Counter 7 Units	
Digital Counter 7 Preset	0
Digital Counter 7 Compare	0

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## DEVICE DEFINITION

## DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000468  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
 DESCRIPTION: PACO B1  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

DIGITAL COUNTERS (continued from last page)

Digital Counter 7 Up	OFF
Digital Counter 7 Down	OFF
Digital Counter 7 Block	OFF
Digital Counter 7 Set To Preset	OFF
Digital Counter 7 Reset	OFF
Digital Counter 7 Freeze/Reset	OFF
Digital Counter 7 Freeze/Count	OFF
Digital Counter 8 Function	Disabled
Digital Counter 8 Name	Counter 8
Digital Counter 8 Units	
Digital Counter 8 Preset	0
Digital Counter 8 Compare	0
Digital Counter 8 Up	OFF
Digital Counter 8 Down	OFF
Digital Counter 8 Block	OFF
Digital Counter 8 Set To Preset	OFF
Digital Counter 8 Reset	OFF
Digital Counter 8 Freeze/Reset	OFF
Digital Counter 8 Freeze/Count	OFF

## MONITORING ELEMENTS

BREAKER ARCING CURRENT

BREAKER 1 ARC: Function	Disabled
BREAKER 1 ARC: Source	SRC 1 (SRC 1)
BREAKER 1 ARC: Init A	OFF
BREAKER 1 ARC: Init B	OFF
BREAKER 1 ARC: Init C	OFF
BREAKER 1 ARC: Delay	0.000 s
BREAKER 1 ARC: Limit	1000 kA2-cyc
BREAKER 1 ARC: Block	OFF
BREAKER 1 ARC: Target	Self-reset
BREAKER 1 ARC: Events	Disabled
BREAKER 2 ARC: Function	Disabled
BREAKER 2 ARC: Source	SRC 1 (SRC 1)
BREAKER 2 ARC: Init A	OFF
BREAKER 2 ARC: Init B	OFF
BREAKER 2 ARC: Init C	OFF
BREAKER 2 ARC: Delay	0.000 s
BREAKER 2 ARC: Limit	1000 kA2-cyc
BREAKER 2 ARC: Block	OFF
BREAKER 2 ARC: Target	Self-reset
BREAKER 2 ARC: Events	Disabled

BREAKER FLASHOVER

BREAKER FLASHOVER 1: Function	Disabled
BREAKER FLASHOVER 1: Side 1	SRC 1 (SRC 1)
BREAKER FLASHOVER 1: Side 2	None
BREAKER FLASHOVER 1: Status Closed A	OFF
BREAKER FLASHOVER 1: Status Closed B	OFF
BREAKER FLASHOVER 1: Status Closed C	OFF
BREAKER FLASHOVER 1: V Pickup	0.850 pu
BREAKER FLASHOVER 1: Diff V Pickup	1000 V
BREAKER FLASHOVER 1: Amp Pickup	0.600 pu
BREAKER FLASHOVER 1: Pickup Delay	0.100 s
BREAKER FLASHOVER 1: Supv A	OFF
BREAKER FLASHOVER 1: Supv B	OFF
BREAKER FLASHOVER 1: Supv C	OFF
BREAKER FLASHOVER 1: Block	OFF
BREAKER FLASHOVER 1: Target	Self-reset
BREAKER FLASHOVER 1: Events	Disabled
BREAKER FLASHOVER 2: Function	Disabled
BREAKER FLASHOVER 2: Side 1	SRC 1 (SRC 1)
BREAKER FLASHOVER 2: Side 2	None
BREAKER FLASHOVER 2: Status Closed A	OFF
BREAKER FLASHOVER 2: Status Closed B	OFF
BREAKER FLASHOVER 2: Status Closed C	OFF
BREAKER FLASHOVER 2: V Pickup	0.850 pu
BREAKER FLASHOVER 2: Diff V Pickup	1000 V
BREAKER FLASHOVER 2: Amp Pickup	0.600 pu
BREAKER FLASHOVER 2: Pickup Delay	0.100 s
BREAKER FLASHOVER 2: Supv A	OFF

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DEVICE DEFINITION

DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000468  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
 DESCRIPTION: PACO B1  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

BREAKER FLASHOVER (continued from last page)

BREAKER FLASHOVER 2: Supv B	OFF
BREAKER FLASHOVER 2: Supv C	OFF
BREAKER FLASHOVER 2: Block	OFF
BREAKER FLASHOVER 2: Target	Self-reset
BREAKER FLASHOVER 2: Events	Disabled

VT FUSE FAILURE

VT FUSE FAILURE 1: Function	Enabled
VT FUSE FAILURE 2: Function	Disabled

OPEN POLE

Function	Disabled
Block	OFF
Voltage SUPV	Disabled
Current Pickup	0.050 pu
Open Pole Line XC1	9999.9 ohms
Open Pole Line XC0	9999.9 ohms
Open Pole REM Current PKP	0.050 pu
Target	Self-reset
Events	Enabled

PILOT SCHEMES

1P DUTT SCHEME

Function	Disabled
Block	OFF
Seal-In Delay	0.000 s
No of Comm Bits	1
RX1	OFF
RX2	OFF
RX3	OFF
RX4	OFF
Target	Self-reset
Event	Disabled

1P PUTT SCHEME

Function	Disabled
Block	OFF
Rx Pickup Delay	0.000 s
Seal-In Delay	0.000 s
No of Comm Bits	1
Rx1	OFF
Rx2	OFF
Rx3	OFF
Rx4	OFF
target	Self-reset
Event	Disabled

1P POTT SCHEME

Function	Disabled
Block	OFF
Permissive Echo	Disabled
Echo Condition	OFF
Rx Pickup Delay	0.000 s
Trans Block Pickup Delay	0.020 s
Trans Block Reset Delay	0.090 s
Echo Duration	0.100 s
Echo Lockout	0.250 s
Line End Open Pickup Delay	0.050 s
Seal-In Delay	0.000 s
Gnd Dir OC Fwd	OFF
Comm Bits	1
Rx1	OFF
Rx2	OFF
Rx3	OFF
Rx4	OFF
Target	Self-reset
Event	Disabled

1P HYBRID POTT SCHEME

Function	Disabled
Block	OFF

SE LMO BACKUP DEJADO PS2 PACO B01\_06082020.URS

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## DEVICE DEFINITION

## DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67

VERSION: 5.5X

UR SERIAL NUMBER: AABC08000468

SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11

DESCRIPTION: PACO B1

TEXT COLOR

ASSOCIATED DEVICE: (NONE)

1P HYBRID POTT SCHEME (continued from last page)

Permissive Echo	Disabled
Echo Condition	OFF
Weak Infeed	Enabled
W/I Condition	OFF
Rx Pickup Delay	0.000 s
Trans Block Pickup Delay	0.020 s
Trans Block Reset Delay	0.090 s
Echo Duration	0.100 s
Echo Lockout	0.250 s
Seal-In Delay	0.000 s
Gnd Dir OC Fwd	OFF
Gnd Dir OC Rev	OFF
No of Comm Bits	1
Rx1	OFF
Rx2	OFF
Rx3	OFF
Rx4	OFF
Target	Self-reset
Event	Disabled

1P BLOCKING SCHEME

Function	Disabled
Block	OFF
Rx Coord Pickup Delay	0.010 s
Transient Block Pickup Delay	0.030 s
Transient Block Reset Delay	0.090 s
Seal-In Delay	0.000 s
Gnd Dir OC Fwd	OFF
Gnd Dir OC Rev	OFF
No of Comm Bits	1
Rx1	OFF
Rx2	OFF
Rx3	OFF
Rx4	OFF
Target	Self-reset
Event	Disabled

DCUB SCHEME

Scheme Function	Disabled
Block	OFF
Permissive Echo	Disabled
Echo Cond	OFF
Gnd Dir OC Fwd	OFF
Gnd Dir OC Rev	OFF
Trans Block Pickup Delay	0.020 s
Trans Block Reset Delay	0.090 s
Echo Duration	0.100 s
Echo Lockout	0.250 s
Line End Open Pickup Delay	0.050 s
Log Pickup Delay	0.008 s
Guard Healthy Reset Delay	0.015 s
Log Trip Window	0.150 s
Seal In Delay	0.010 s
Comm Bits	1
Rx1	OFF
Log1	OFF
Rx2	OFF
Log2	OFF
Rx3	OFF
Log3	OFF
Rx4	OFF
Log4	OFF
Target	Self-reset
Event	Disabled

AUTORECLOSE 1P

Function	Enabled
Mode	3 Pole - B
Max Number Of Shots	1
Block BKR1	OFF
Close Time BKR1	0.10 s



SE LMO BACKUP DEJADO PS2 PACO B01\_06082020.URS  
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 VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B1\SE LMO BACKUP DEJADO PS2 PACO B01\_06082020\

DEVICE DEFINITION

DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000468  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
 DESCRIPTION: PACO B1  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

AUTORECLOSE 1P (continued from last page)

BKR Man Close	OFF
Blk Time Upon Man Cls	1.00 s
1-P Init	OFF
3-P Init	INICIO79 On (VO6)
3-P TD Init	OFF
Multi P Fault	OFF
BKR 1 Pole Open	OFF
BKR 3 Pole Open	52B1 CERRADO Off(H1a)
3-P Dead Time 1	2.00 s
3-P Dead Time 2	1.20 s
3-P Dead Time 3	2.00 s
3-P Dead Time 4	4.00 s
Extend Dead T1	OFF
Dead T1 Extension	0.50 s
Reset	OFF
Reset Time	1.00 s
BKR Closed	52B1 CERRADO On(H1a)
Block	BLOQUEO79 On (VO7)
Pause	OFF
Inc Seq Time	5.00 s
Block BKR2	OFF
Close Time BKR2	0.10 s
Transfer 1 to 2	No
Transfer 2 to 1	No
BKR1 Fail Option	Continue
BKR2 Fail Option	Continue
1-P Dead Time	1.00 s
BKR Sequence	1
Transfer Time	4.00 s
BUS FLT Init	OFF
Event	Enabled

INPUTS/OUTPUTS

CONTACT INPUTS

[H1a] Contact Input 1a ID	52B1 CERRADO
[H1a] Contact Input 1a Debounce Time	2.0 ms
[H1a] Contact Input 1a Events	Enabled
[H1c] Contact Input 1c ID	RES CARG
[H1c] Contact Input 1c Debounce Time	2.0 ms
[H1c] Contact Input 1c Events	Enabled
[H2a] Contact Input 2a ID	79 HAB
[H2a] Contact Input 2a Debounce Time	2.0 ms
[H2a] Contact Input 2a Events	Enabled
[H2c] Contact Input 2c ID	BLOQUEO SF6
[H2c] Contact Input 2c Debounce Time	2.0 ms
[H2c] Contact Input 2c Events	Enabled
[H3a] Contact Input 3a ID	ALARMA SF6
[H3a] Contact Input 3a Debounce Time	2.0 ms
[H3a] Contact Input 3a Events	Enabled
[H3c] Contact Input 3c ID	MCB Barra
[H3c] Contact Input 3c Debounce Time	2.0 ms
[H3c] Contact Input 3c Events	Enabled
[H4a] Contact Input 4a ID	SUP 79
[H4a] Contact Input 4a Debounce Time	2.0 ms
[H4a] Contact Input 4a Events	Enabled
[H4c] Contact Input 4c ID	Cont Ip 8
[H4c] Contact Input 4c Debounce Time	2.0 ms
[H4c] Contact Input 4c Events	Disabled
[H5a] Contact Input 5a ID	Cont Ip 9
[H5a] Contact Input 5a Debounce Time	2.0 ms
[H5a] Contact Input 5a Events	Disabled
[H5c] Contact Input 5c ID	Cont Ip 10
[H5c] Contact Input 5c Debounce Time	2.0 ms
[H5c] Contact Input 5c Events	Disabled
[H6a] Contact Input 6a ID	Cont Ip 11
[H6a] Contact Input 6a Debounce Time	2.0 ms
[H6a] Contact Input 6a Events	Disabled
[H6c] Contact Input 6c ID	Cont Ip 12
[H6c] Contact Input 6c Debounce Time	2.0 ms
[H6c] Contact Input 6c Events	Disabled
[H7a] Contact Input 7a ID	Cont Ip 13

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DEVICE DEFINITION

DEVICES

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 ASSOCIATED DEVICE: (NONE)

CONTACT INPUTS (continued from last page)

[H7a] Contact Input 7a Debounce Time	2.0 ms
[H7a] Contact Input 7a Events	Disabled
[H7c] Contact Input 7c ID	Cont Ip 14
[H7c] Contact Input 7c Debounce Time	2.0 ms
[H7c] Contact Input 7c Events	Disabled
[H8a] Contact Input 8a ID	Cont Ip 15
[H8a] Contact Input 8a Debounce Time	2.0 ms
[H8a] Contact Input 8a Events	Disabled
[H8c] Contact Input 8c ID	Cont Ip 16
[H8c] Contact Input 8c Debounce Time	2.0 ms
[H8c] Contact Input 8c Events	Disabled
[M7a] Contact Input 7a ID	Cont Ip 17
[M7a] Contact Input 7a Debounce Time	2.0 ms
[M7a] Contact Input 7a Events	Disabled
[M7c] Contact Input 7c ID	Cont Ip 18
[M7c] Contact Input 7c Debounce Time	2.0 ms
[M7c] Contact Input 7c Events	Disabled
[M8a] Contact Input 8a ID	Cont Ip 19
[M8a] Contact Input 8a Debounce Time	2.0 ms
[M8a] Contact Input 8a Events	Disabled
[M8c] Contact Input 8c ID	Cont Ip 20
[M8c] Contact Input 8c Debounce Time	2.0 ms
[M8c] Contact Input 8c Events	Disabled
[P7a] Contact Input 7a ID	Cont Ip 21
[P7a] Contact Input 7a Debounce Time	2.0 ms
[P7a] Contact Input 7a Events	Disabled
[P7c] Contact Input 7c ID	Cont Ip 22
[P7c] Contact Input 7c Debounce Time	2.0 ms
[P7c] Contact Input 7c Events	Disabled
[P8a] Contact Input 8a ID	Cont Ip 23
[P8a] Contact Input 8a Debounce Time	2.0 ms
[P8a] Contact Input 8a Events	Disabled
[P8c] Contact Input 8c ID	Cont Ip 24
[P8c] Contact Input 8c Debounce Time	2.0 ms
[P8c] Contact Input 8c Events	Disabled

CONTACT INPUT THRESHOLDS

52B1 CERRADO, RES CARG, 79 HAB, BLOQUEO SF6(H1a, H1c, H2a, H2c)	33 Vdc
ALARMA SF6, MCB Barra, SUP 79, Cont Ip 8(H3a, H3c, H4a, H4c)	33 Vdc
Cont Ip 9, Cont Ip 10, Cont Ip 11, Cont Ip 12(H5a, H5c, H6a, H6c)	33 Vdc
Cont Ip 13, Cont Ip 14, Cont Ip 15, Cont Ip 16(H7a, H7c, H8a, H8c)	33 Vdc
Cont Ip 17, Cont Ip 18, Cont Ip 19, Cont Ip 20(M7a, M7c, M8a, M8c)	33 Vdc
Cont Ip 21, Cont Ip 22, Cont Ip 23, Cont Ip 24(P7a, P7c, P8a, P8c)	33 Vdc

VIRTUAL INPUTS

VIRTUAL INPUTS

Virtual Input 1 Function	Disabled
Virtual Input 1 ID	Virt Ip 1
Virtual Input 1 Type	Latched
Virtual Input 1 Events	Disabled
Virtual Input 2 Function	Disabled
Virtual Input 2 ID	Virt Ip 2
Virtual Input 2 Type	Latched
Virtual Input 2 Events	Disabled
Virtual Input 3 Function	Disabled
Virtual Input 3 ID	Virt Ip 3
Virtual Input 3 Type	Latched
Virtual Input 3 Events	Disabled
Virtual Input 4 Function	Disabled
Virtual Input 4 ID	Virt Ip 4
Virtual Input 4 Type	Latched
Virtual Input 4 Events	Disabled
Virtual Input 5 Function	Disabled
Virtual Input 5 ID	Virt Ip 5
Virtual Input 5 Type	Latched

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## DEVICE DEFINITION

## DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
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 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

## VIRTUAL INPUTS (continued from last page)

Virtual Input 5 Events	Disabled
Virtual Input 6 Function	Disabled
Virtual Input 6 ID	Virt Ip 6
Virtual Input 6 Type	Latched
Virtual Input 6 Events	Disabled
Virtual Input 7 Function	Disabled
Virtual Input 7 ID	Virt Ip 7
Virtual Input 7 Type	Latched
Virtual Input 7 Events	Disabled
Virtual Input 8 Function	Disabled
Virtual Input 8 ID	Virt Ip 8
Virtual Input 8 Type	Latched
Virtual Input 8 Events	Disabled
Virtual Input 9 Function	Disabled
Virtual Input 9 ID	Virt Ip 9
Virtual Input 9 Type	Latched
Virtual Input 9 Events	Disabled
Virtual Input 10 Function	Disabled
Virtual Input 10 ID	Virt Ip 10
Virtual Input 10 Type	Latched
Virtual Input 10 Events	Disabled
Virtual Input 11 Function	Disabled
Virtual Input 11 ID	Virt Ip 11
Virtual Input 11 Type	Latched
Virtual Input 11 Events	Disabled
Virtual Input 12 Function	Disabled
Virtual Input 12 ID	Virt Ip 12
Virtual Input 12 Type	Latched
Virtual Input 12 Events	Disabled
Virtual Input 13 Function	Disabled
Virtual Input 13 ID	Virt Ip 13
Virtual Input 13 Type	Latched
Virtual Input 13 Events	Disabled
Virtual Input 14 Function	Disabled
Virtual Input 14 ID	Virt Ip 14
Virtual Input 14 Type	Latched
Virtual Input 14 Events	Disabled
Virtual Input 15 Function	Disabled
Virtual Input 15 ID	Virt Ip 15
Virtual Input 15 Type	Latched
Virtual Input 15 Events	Disabled
Virtual Input 16 Function	Disabled
Virtual Input 16 ID	Virt Ip 16
Virtual Input 16 Type	Latched
Virtual Input 16 Events	Disabled
Virtual Input 17 Function	Disabled
Virtual Input 17 ID	Virt Ip 17
Virtual Input 17 Type	Latched
Virtual Input 17 Events	Disabled
Virtual Input 18 Function	Disabled
Virtual Input 18 ID	Virt Ip 18
Virtual Input 18 Type	Latched
Virtual Input 18 Events	Disabled
Virtual Input 19 Function	Disabled
Virtual Input 19 ID	Virt Ip 19
Virtual Input 19 Type	Latched
Virtual Input 19 Events	Disabled
Virtual Input 20 Function	Disabled
Virtual Input 20 ID	Virt Ip 20
Virtual Input 20 Type	Latched
Virtual Input 20 Events	Disabled
Virtual Input 21 Function	Disabled
Virtual Input 21 ID	Virt Ip 21
Virtual Input 21 Type	Latched
Virtual Input 21 Events	Disabled
Virtual Input 22 Function	Disabled
Virtual Input 22 ID	Virt Ip 22
Virtual Input 22 Type	Latched
Virtual Input 22 Events	Disabled
Virtual Input 23 Function	Disabled
Virtual Input 23 ID	Virt Ip 23

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DEVICE DEFINITION

DEVICES

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 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

VIRTUAL INPUTS (continued from last page)

Virtual Input 23 Type	Latched
Virtual Input 23 Events	Disabled
Virtual Input 24 Function	Disabled
Virtual Input 24 ID	Virt Ip 24
Virtual Input 24 Type	Latched
Virtual Input 24 Events	Disabled
Virtual Input 25 Function	Disabled
Virtual Input 25 ID	Virt Ip 25
Virtual Input 25 Type	Latched
Virtual Input 25 Events	Disabled
Virtual Input 26 Function	Disabled
Virtual Input 26 ID	Virt Ip 26
Virtual Input 26 Type	Latched
Virtual Input 26 Events	Disabled
Virtual Input 27 Function	Disabled
Virtual Input 27 ID	Virt Ip 27
Virtual Input 27 Type	Latched
Virtual Input 27 Events	Disabled
Virtual Input 28 Function	Disabled
Virtual Input 28 ID	Virt Ip 28
Virtual Input 28 Type	Latched
Virtual Input 28 Events	Disabled
Virtual Input 29 Function	Disabled
Virtual Input 29 ID	Virt Ip 29
Virtual Input 29 Type	Latched
Virtual Input 29 Events	Disabled
Virtual Input 30 Function	Disabled
Virtual Input 30 ID	Virt Ip 30
Virtual Input 30 Type	Latched
Virtual Input 30 Events	Disabled
Virtual Input 31 Function	Disabled
Virtual Input 31 ID	Virt Ip 31
Virtual Input 31 Type	Latched
Virtual Input 31 Events	Disabled
Virtual Input 32 Function	Disabled
Virtual Input 32 ID	Virt Ip 32
Virtual Input 32 Type	Latched
Virtual Input 32 Events	Disabled
Virtual Input 33 Function	Disabled
Virtual Input 33 ID	Virt Ip 33
Virtual Input 33 Type	Latched
Virtual Input 33 Events	Disabled
Virtual Input 34 Function	Disabled
Virtual Input 34 ID	Virt Ip 34
Virtual Input 34 Type	Latched
Virtual Input 34 Events	Disabled
Virtual Input 35 Function	Disabled
Virtual Input 35 ID	Virt Ip 35
Virtual Input 35 Type	Latched
Virtual Input 35 Events	Disabled
Virtual Input 36 Function	Disabled
Virtual Input 36 ID	Virt Ip 36
Virtual Input 36 Type	Latched
Virtual Input 36 Events	Disabled
Virtual Input 37 Function	Disabled
Virtual Input 37 ID	Virt Ip 37
Virtual Input 37 Type	Latched
Virtual Input 37 Events	Disabled
Virtual Input 38 Function	Disabled
Virtual Input 38 ID	Virt Ip 38
Virtual Input 38 Type	Latched
Virtual Input 38 Events	Disabled
Virtual Input 39 Function	Disabled
Virtual Input 39 ID	Virt Ip 39
Virtual Input 39 Type	Latched
Virtual Input 39 Events	Disabled
Virtual Input 40 Function	Disabled
Virtual Input 40 ID	Virt Ip 40
Virtual Input 40 Type	Latched
Virtual Input 40 Events	Disabled
Virtual Input 41 Function	Disabled

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 VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B1\SE LMO BACKUP DEJADO PS2 PACO B01\_06082020\

## DEVICE DEFINITION

## DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000468  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
 DESCRIPTION: PACO B1  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

## VIRTUAL INPUTS (continued from last page)

Virtual Input 41 ID	Virt Ip 41
Virtual Input 41 Type	Latched
Virtual Input 41 Events	Disabled
Virtual Input 42 Function	Disabled
Virtual Input 42 ID	Virt Ip 42
Virtual Input 42 Type	Latched
Virtual Input 42 Events	Disabled
Virtual Input 43 Function	Disabled
Virtual Input 43 ID	Virt Ip 43
Virtual Input 43 Type	Latched
Virtual Input 43 Events	Disabled
Virtual Input 44 Function	Disabled
Virtual Input 44 ID	Virt Ip 44
Virtual Input 44 Type	Latched
Virtual Input 44 Events	Disabled
Virtual Input 45 Function	Disabled
Virtual Input 45 ID	Virt Ip 45
Virtual Input 45 Type	Latched
Virtual Input 45 Events	Disabled
Virtual Input 46 Function	Disabled
Virtual Input 46 ID	Virt Ip 46
Virtual Input 46 Type	Latched
Virtual Input 46 Events	Disabled
Virtual Input 47 Function	Disabled
Virtual Input 47 ID	Virt Ip 47
Virtual Input 47 Type	Latched
Virtual Input 47 Events	Disabled
Virtual Input 48 Function	Disabled
Virtual Input 48 ID	Virt Ip 48
Virtual Input 48 Type	Latched
Virtual Input 48 Events	Disabled
Virtual Input 49 Function	Disabled
Virtual Input 49 ID	Virt Ip 49
Virtual Input 49 Type	Latched
Virtual Input 49 Events	Disabled
Virtual Input 50 Function	Disabled
Virtual Input 50 ID	Virt Ip 50
Virtual Input 50 Type	Latched
Virtual Input 50 Events	Disabled
Virtual Input 51 Function	Disabled
Virtual Input 51 ID	Virt Ip 51
Virtual Input 51 Type	Latched
Virtual Input 51 Events	Disabled
Virtual Input 52 Function	Disabled
Virtual Input 52 ID	Virt Ip 52
Virtual Input 52 Type	Latched
Virtual Input 52 Events	Disabled
Virtual Input 53 Function	Disabled
Virtual Input 53 ID	Virt Ip 53
Virtual Input 53 Type	Latched
Virtual Input 53 Events	Disabled
Virtual Input 54 Function	Disabled
Virtual Input 54 ID	Virt Ip 54
Virtual Input 54 Type	Latched
Virtual Input 54 Events	Disabled
Virtual Input 55 Function	Disabled
Virtual Input 55 ID	Virt Ip 55
Virtual Input 55 Type	Latched
Virtual Input 55 Events	Disabled
Virtual Input 56 Function	Disabled
Virtual Input 56 ID	Virt Ip 56
Virtual Input 56 Type	Latched
Virtual Input 56 Events	Disabled
Virtual Input 57 Function	Disabled
Virtual Input 57 ID	Virt Ip 57
Virtual Input 57 Type	Latched
Virtual Input 57 Events	Disabled
Virtual Input 58 Function	Disabled
Virtual Input 58 ID	Virt Ip 58
Virtual Input 58 Type	Latched
Virtual Input 58 Events	Disabled

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VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B1\SE LMO BACKUP DEJADO PS2 PACO B01\_06082020\

## DEVICE DEFINITION

## DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67

VERSION: 5.5X

UR SERIAL NUMBER: AABC08000468

SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11

DESCRIPTION: PACO B1

TEXT COLOR

ASSOCIATED DEVICE: (NONE)

VIRTUAL INPUTS (continued from last page)

Virtual Input 59 Function	Disabled
Virtual Input 59 ID	Virt Ip 59
Virtual Input 59 Type	Latched
Virtual Input 59 Events	Disabled
Virtual Input 60 Function	Disabled
Virtual Input 60 ID	Virt Ip 60
Virtual Input 60 Type	Latched
Virtual Input 60 Events	Disabled
Virtual Input 61 Function	Disabled
Virtual Input 61 ID	Virt Ip 61
Virtual Input 61 Type	Latched
Virtual Input 61 Events	Disabled
Virtual Input 62 Function	Disabled
Virtual Input 62 ID	Virt Ip 62
Virtual Input 62 Type	Latched
Virtual Input 62 Events	Disabled
Virtual Input 63 Function	Disabled
Virtual Input 63 ID	Virt Ip 63
Virtual Input 63 Type	Latched
Virtual Input 63 Events	Disabled
Virtual Input 64 Function	Disabled
Virtual Input 64 ID	Virt Ip 64
Virtual Input 64 Type	Latched
Virtual Input 64 Events	Disabled

CONTACT OUTPUTS

[M1] Contact Output 1 ID	Trip1 52B1
[M1] Contact Output 1 Operate	TRIPBUS 1 OP
[M1] Contact Output 1 Seal-In	OFF
[M1] Contact Output 1 Events	Enabled
[M2] Contact Output 2 ID	Trip2 52B1
[M2] Contact Output 2 Operate	TRIPBUS 1 OP
[M2] Contact Output 2 Seal-In	OFF
[M2] Contact Output 2 Events	Enabled
[M3] Contact Output 3 ID	Orden 79
[M3] Contact Output 3 Operate	AR CLOSE BKR 1
[M3] Contact Output 3 Seal-In	OFF
[M3] Contact Output 3 Events	Enabled
[M4] Contact Output 4 ID	Sup 79
[M4] Contact Output 4 Operate	SUP79OK On (VO8)
[M4] Contact Output 4 Seal-In	OFF
[M4] Contact Output 4 Events	Enabled
[M5] Contact Output 5 ID	Cont Op 5
[M5] Contact Output 5 Operate	OFF
[M5] Contact Output 5 Seal-In	OFF
[M5] Contact Output 5 Events	Disabled
[M6] Contact Output 6 ID	Cont Op 6
[M6] Contact Output 6 Operate	OFF
[M6] Contact Output 6 Seal-In	OFF
[M6] Contact Output 6 Events	Disabled
[P1] Contact Output 7 ID	Alarma Trip
[P1] Contact Output 7 Operate	TRIPBUS 1 OP
[P1] Contact Output 7 Seal-In	OFF
[P1] Contact Output 7 Events	Enabled
[P2] Contact Output 8 ID	Al falla B1
[P2] Contact Output 8 Operate	OFF
[P2] Contact Output 8 Seal-In	OFF
[P2] Contact Output 8 Events	Enabled
[P3] Contact Output 9 ID	Cont Op 9
[P3] Contact Output 9 Operate	OFF
[P3] Contact Output 9 Seal-In	OFF
[P3] Contact Output 9 Events	Disabled
[P4] Contact Output 10 ID	Cont Op 10
[P4] Contact Output 10 Operate	OFF
[P4] Contact Output 10 Seal-In	OFF
[P4] Contact Output 10 Events	Disabled
[P5] Contact Output 11 ID	Cont Op 11
[P5] Contact Output 11 Operate	OFF
[P5] Contact Output 11 Seal-In	OFF
[P5] Contact Output 11 Events	Disabled
[P6] Contact Output 12 ID	Cont Op 12

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DEVICES

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 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

CONTACT OUTPUTS (continued from last page)

[P6] Contact Output 12 Operate	OFF
[P6] Contact Output 12 Seal-In	OFF
[P6] Contact Output 12 Events	Disabled
[U1] Contact Output 13 ID	Cont Op 13
[U1] Contact Output 13 Operate	OFF
[U1] Contact Output 13 Seal-In	OFF
[U1] Contact Output 13 Events	Disabled
[U2] Contact Output 14 ID	Cont Op 14
[U2] Contact Output 14 Operate	OFF
[U2] Contact Output 14 Seal-In	OFF
[U2] Contact Output 14 Events	Disabled
[U3] Contact Output 15 ID	Cont Op 15
[U3] Contact Output 15 Operate	OFF
[U3] Contact Output 15 Seal-In	OFF
[U3] Contact Output 15 Events	Disabled
[U4] Contact Output 16 ID	Cont Op 16
[U4] Contact Output 16 Operate	OFF
[U4] Contact Output 16 Seal-In	OFF
[U4] Contact Output 16 Events	Disabled
[U5] Contact Output 17 ID	Cont Op 17
[U5] Contact Output 17 Operate	OFF
[U5] Contact Output 17 Seal-In	OFF
[U5] Contact Output 17 Events	Disabled
[U6] Contact Output 18 ID	Cont Op 18
[U6] Contact Output 18 Operate	OFF
[U6] Contact Output 18 Seal-In	OFF
[U6] Contact Output 18 Events	Disabled
[U7] Contact Output 19 ID	Cont Op 19
[U7] Contact Output 19 Operate	OFF
[U7] Contact Output 19 Seal-In	OFF
[U7] Contact Output 19 Events	Disabled
[U8] Contact Output 20 ID	Cont Op 20
[U8] Contact Output 20 Operate	OFF
[U8] Contact Output 20 Seal-In	OFF
[U8] Contact Output 20 Events	Disabled
[W1] Contact Output 21 ID	Prueba caja
[W1] Contact Output 21 Operate	OFF
[W1] Contact Output 21 Seal-In	OFF
[W1] Contact Output 21 Events	Enabled
[W2] Contact Output 22 ID	Cont Op 22
[W2] Contact Output 22 Operate	OFF
[W2] Contact Output 22 Seal-In	OFF
[W2] Contact Output 22 Events	Disabled
[W3] Contact Output 23 ID	Cont Op 23
[W3] Contact Output 23 Operate	OFF
[W3] Contact Output 23 Seal-In	OFF
[W3] Contact Output 23 Events	Disabled
[W4] Contact Output 24 ID	Cont Op 24
[W4] Contact Output 24 Operate	OFF
[W4] Contact Output 24 Seal-In	OFF
[W4] Contact Output 24 Events	Disabled
[W5] Contact Output 25 ID	Cont Op 25
[W5] Contact Output 25 Operate	OFF
[W5] Contact Output 25 Seal-In	OFF
[W5] Contact Output 25 Events	Disabled
[W6] Contact Output 26 ID	Cont Op 26
[W6] Contact Output 26 Operate	OFF
[W6] Contact Output 26 Seal-In	OFF
[W6] Contact Output 26 Events	Disabled
[W7] Contact Output 27 ID	Cont Op 27
[W7] Contact Output 27 Operate	OFF
[W7] Contact Output 27 Seal-In	OFF
[W7] Contact Output 27 Events	Disabled
[W8] Contact Output 28 ID	Prueba
[W8] Contact Output 28 Operate	TRIPBUS 1 OP
[W8] Contact Output 28 Seal-In	OFF
[W8] Contact Output 28 Events	Disabled

VIRTUAL OUTPUTS

Virtual Output 1 ID	Falla POT
Virtual Output 1 Events	Enabled

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 VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B1\SE LMO BACKUP DEJADO PS2 PACO B01\_06082020\

DEVICE DEFINITION

DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000468  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
 DESCRIPTION: PACO B1  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

VIRTUAL OUTPUTS (continued from last page)

Virtual Output 2 ID	79 OK
Virtual Output 2 Events	Enabled
Virtual Output 3 ID	Fallas zonas
Virtual Output 3 Events	Enabled
Virtual Output 4 ID	AL RES DESC
Virtual Output 4 Events	Enabled
Virtual Output 5 ID	POT OK
Virtual Output 5 Events	Enabled
Virtual Output 6 ID	INICIO79
Virtual Output 6 Events	Enabled
Virtual Output 7 ID	BLOQUEO79
Virtual Output 7 Events	Enabled
Virtual Output 8 ID	SUP79OK
Virtual Output 8 Events	Enabled
Virtual Output 9 ID	AL ZONA1
Virtual Output 9 Events	Enabled
Virtual Output 10 ID	AL ZONA2
Virtual Output 10 Events	Enabled
Virtual Output 11 ID	AL ZONA 3
Virtual Output 11 Events	Enabled
Virtual Output 12 ID	Virt Op 12
Virtual Output 12 Events	Disabled
Virtual Output 13 ID	Virt Op 13
Virtual Output 13 Events	Disabled
Virtual Output 14 ID	Virt Op 14
Virtual Output 14 Events	Disabled
Virtual Output 15 ID	Virt Op 15
Virtual Output 15 Events	Disabled
Virtual Output 16 ID	Virt Op 16
Virtual Output 16 Events	Disabled
Virtual Output 17 ID	Virt Op 17
Virtual Output 17 Events	Disabled
Virtual Output 18 ID	Virt Op 18
Virtual Output 18 Events	Disabled
Virtual Output 19 ID	Virt Op 19
Virtual Output 19 Events	Disabled
Virtual Output 20 ID	Virt Op 20
Virtual Output 20 Events	Disabled
Virtual Output 21 ID	Virt Op 21
Virtual Output 21 Events	Disabled
Virtual Output 22 ID	Virt Op 22
Virtual Output 22 Events	Disabled
Virtual Output 23 ID	Virt Op 23
Virtual Output 23 Events	Disabled
Virtual Output 24 ID	Virt Op 24
Virtual Output 24 Events	Disabled
Virtual Output 25 ID	Virt Op 25
Virtual Output 25 Events	Disabled
Virtual Output 26 ID	Virt Op 26
Virtual Output 26 Events	Disabled
Virtual Output 27 ID	Virt Op 27
Virtual Output 27 Events	Disabled
Virtual Output 28 ID	Virt Op 28
Virtual Output 28 Events	Disabled
Virtual Output 29 ID	Virt Op 29
Virtual Output 29 Events	Disabled
Virtual Output 30 ID	Virt Op 30
Virtual Output 30 Events	Disabled
Virtual Output 31 ID	Virt Op 31
Virtual Output 31 Events	Disabled
Virtual Output 32 ID	Virt Op 32
Virtual Output 32 Events	Disabled
Virtual Output 33 ID	Virt Op 33
Virtual Output 33 Events	Disabled
Virtual Output 34 ID	Virt Op 34
Virtual Output 34 Events	Disabled
Virtual Output 35 ID	Virt Op 35
Virtual Output 35 Events	Disabled
Virtual Output 36 ID	Virt Op 36
Virtual Output 36 Events	Disabled
Virtual Output 37 ID	Virt Op 37



SE LMO BACKUP DEJADO PS2 PACO B01\_06082020.URS  
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 VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B1\SE LMO BACKUP DEJADO PS2 PACO B01\_06082020\

## DEVICE DEFINITION

## DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000468  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
 DESCRIPTION: PACO B1  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

## VIRTUAL OUTPUTS (continued from last page)

Virtual Output 37 Events	Disabled
Virtual Output 38 ID	Virt Op 38
Virtual Output 38 Events	Disabled
Virtual Output 39 ID	Virt Op 39
Virtual Output 39 Events	Disabled
Virtual Output 40 ID	Virt Op 40
Virtual Output 40 Events	Disabled
Virtual Output 41 ID	Virt Op 41
Virtual Output 41 Events	Disabled
Virtual Output 42 ID	Virt Op 42
Virtual Output 42 Events	Disabled
Virtual Output 43 ID	Virt Op 43
Virtual Output 43 Events	Disabled
Virtual Output 44 ID	Virt Op 44
Virtual Output 44 Events	Disabled
Virtual Output 45 ID	Virt Op 45
Virtual Output 45 Events	Disabled
Virtual Output 46 ID	Virt Op 46
Virtual Output 46 Events	Disabled
Virtual Output 47 ID	Virt Op 47
Virtual Output 47 Events	Disabled
Virtual Output 48 ID	Virt Op 48
Virtual Output 48 Events	Disabled
Virtual Output 49 ID	Virt Op 49
Virtual Output 49 Events	Disabled
Virtual Output 50 ID	Virt Op 50
Virtual Output 50 Events	Disabled
Virtual Output 51 ID	Virt Op 51
Virtual Output 51 Events	Disabled
Virtual Output 52 ID	Virt Op 52
Virtual Output 52 Events	Disabled
Virtual Output 53 ID	Virt Op 53
Virtual Output 53 Events	Disabled
Virtual Output 54 ID	Virt Op 54
Virtual Output 54 Events	Disabled
Virtual Output 55 ID	Virt Op 55
Virtual Output 55 Events	Disabled
Virtual Output 56 ID	Virt Op 56
Virtual Output 56 Events	Disabled
Virtual Output 57 ID	Virt Op 57
Virtual Output 57 Events	Disabled
Virtual Output 58 ID	Virt Op 58
Virtual Output 58 Events	Disabled
Virtual Output 59 ID	Virt Op 59
Virtual Output 59 Events	Disabled
Virtual Output 60 ID	Virt Op 60
Virtual Output 60 Events	Disabled
Virtual Output 61 ID	Virt Op 61
Virtual Output 61 Events	Disabled
Virtual Output 62 ID	Virt Op 62
Virtual Output 62 Events	Disabled
Virtual Output 63 ID	Virt Op 63
Virtual Output 63 Events	Disabled
Virtual Output 64 ID	Virt Op 64
Virtual Output 64 Events	Disabled
Virtual Output 65 ID	Virt Op 65
Virtual Output 65 Events	Disabled
Virtual Output 66 ID	Virt Op 66
Virtual Output 66 Events	Disabled
Virtual Output 67 ID	Virt Op 67
Virtual Output 67 Events	Disabled
Virtual Output 68 ID	Virt Op 68
Virtual Output 68 Events	Disabled
Virtual Output 69 ID	Virt Op 69
Virtual Output 69 Events	Disabled
Virtual Output 70 ID	Virt Op 70
Virtual Output 70 Events	Disabled
Virtual Output 71 ID	Virt Op 71
Virtual Output 71 Events	Disabled
Virtual Output 72 ID	Virt Op 72
Virtual Output 72 Events	Disabled

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 VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B1\SE LMO BACKUP DEJADO PS2 PACO B01\_06082020\

DEVICE DEFINITION

DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000468  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:08:11  
 DESCRIPTION: PACO B1  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

VIRTUAL OUTPUTS (continued from last page)

Virtual Output 73 ID	Virt Op 73
Virtual Output 73 Events	Disabled
Virtual Output 74 ID	Virt Op 74
Virtual Output 74 Events	Disabled
Virtual Output 75 ID	Virt Op 75
Virtual Output 75 Events	Disabled
Virtual Output 76 ID	Virt Op 76
Virtual Output 76 Events	Disabled
Virtual Output 77 ID	Virt Op 77
Virtual Output 77 Events	Disabled
Virtual Output 78 ID	Virt Op 78
Virtual Output 78 Events	Disabled
Virtual Output 79 ID	Virt Op 79
Virtual Output 79 Events	Disabled
Virtual Output 80 ID	TRIP 21-21
Virtual Output 80 Events	Enabled
Virtual Output 81 ID	TRIP 21-21N
Virtual Output 81 Events	Enabled
Virtual Output 82 ID	TRIP 67N
Virtual Output 82 Events	Enabled
Virtual Output 83 ID	TRIP Z1
Virtual Output 83 Events	Enabled
Virtual Output 84 ID	TRIP Z2
Virtual Output 84 Events	Enabled
Virtual Output 85 ID	TRIP Z3
Virtual Output 85 Events	Enabled
Virtual Output 86 ID	VO86
Virtual Output 86 Events	Enabled
Virtual Output 87 ID	Virt Op 87
Virtual Output 87 Events	Disabled
Virtual Output 88 ID	Virt Op 88
Virtual Output 88 Events	Disabled
Virtual Output 89 ID	Virt Op 89
Virtual Output 89 Events	Disabled
Virtual Output 90 ID	Virt Op 90
Virtual Output 90 Events	Disabled
Virtual Output 91 ID	Virt Op 91
Virtual Output 91 Events	Disabled
Virtual Output 92 ID	Virt Op 92
Virtual Output 92 Events	Disabled
Virtual Output 93 ID	Virt Op 93
Virtual Output 93 Events	Disabled
Virtual Output 94 ID	Virt Op 94
Virtual Output 94 Events	Disabled
Virtual Output 95 ID	Virt Op 95
Virtual Output 95 Events	Disabled
Virtual Output 96 ID	Virt Op 96
Virtual Output 96 Events	Disabled

RESETTING

Operand OFF



## Razón de TTCC/TTPP

$TTCC: 150/5$

$$TTPP: \frac{69000}{\sqrt{3}} / 115 / \frac{115}{\sqrt{3}}$$

## Particularidades de Ajustes

- Sin esquema de teleprotección

## Ajustes relevantes

FUNCIÓN	PARÁMETROS/TIPO	VALOR/CANTIDAD
Line Pickup (SOTF)	Phase IOC UV Pickup	1.000 [pu] 150 amp. Prim 0.800 [pu] 31907.5 V. prim
67N	$I_{pickup}$	0.300 [pu] 45 amp. primarios
79	Modo Secuencia	3 Pole-B 1

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 VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B2\SE LMO BACKUP DEJADO PS2 PACO B02\_06082020\

**DEVICE DEFINITION****DEVICES**

**ORDER CODE:** D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
**VERSION:** 5.5X  
**UR SERIAL NUMBER:** AABC08000458  
**SETTINGS SENT TO RELAY:** THURSDAY, AUGUST 06, 2020 21:59:05  
**DESCRIPTION:** PACO B2  
**TEXT COLOR**  
**ASSOCIATED DEVICE:** (NONE)

**RELAY INFORMATION**

Main Firmware:	550
Boot Firmware:	301
Relay Serial Number:	AABC08000458
CPU Serial Number:	A9NC08000917
F8L Module Serial Number	A8LC08002965
H6D Module Serial Number	A6DC08001806
M6U Module Serial Number	A6UC08001599
P6U Module Serial Number	A6UC08001627
U67 Module Serial Number	A67C08001911
W67 Module Serial Number	A67C08001910
Settings Sent to Relay	Thursday, August 06, 2020 21:59:05

**PRODUCT SETUP****SECURITY**

Command Password	0
Setting Password	0
Command Password Access Timeout	5 min
Setting Password Access Timeout	30 min
Invalid Password Attempts	3
Password Lockout Duration	5 min
Password Access Events	Disabled

**DISPLAY PROPERTIES**

Flash Message Time	1.0 s
Default Message Timeout	300 s
Default Message Intensity (VFD Only)	25 %
Screen Saver Feature (LCD Only)	Enabled
Screen Saver Wait Time (LCD Only)	2 min
Current Cutoff Level	0.020 pu
Voltage Cutoff Level	1.0 V

**CLEAR RELAY RECORDS**

Clear Fault Reports	OFF
Clear Event Records	OFF
Clear Oscillography	OFF
Clear Data Logger	OFF
CLEAR Breaker 1 Arcing Amps	OFF
CLEAR Breaker 2 Arcing Amps	OFF
Clear Energy	OFF
Reset Unauth Access	OFF

**COMMUNICATIONS****SERIAL PORTS**

RS485 Com2 Baud Rate	19200
RS485 Com2 Parity	None
RS485 Com2 Response Min Time	0 ms

**NETWORK**

IP Address	10.90.34.132
IP Subnet Mask	255.255.255.240
Gateway IP Address	10.90.34.130

**MODBUS PROTOCOL**

Modbus Slave Address	254
Modbus TCP Port Number	502

**DNP PROTOCOL**

DNP Channel 1 Port	NETWORK - UDP
DNP Channel 2 Port	NONE
DNP Address	3
DNP Client Address 1	10.90.34.130
DNP Client Address 2	0.0.0.0
DNP Client Address 3	0.0.0.0
DNP Client Address 4	0.0.0.0
DNP Client Address 5	0.0.0.0
DNP TCP/UDP Port Number	20000
DNP Unsol Resp Function	Disabled
DNP Unsol Resp Timeout	5 s
DNP Unsol Resp Max Retries	10
DNP Unsol Resp Dest Addr	1
DNP Current Scale Factor	1

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 VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B2\SE LMO BACKUP DEJADO PS2 PACO B02\_06082020\

DEVICE DEFINITION

DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000458  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05  
 DESCRIPTION: PACO B2  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

DNP PROTOCOL (continued from last page)

DNP Voltage Scale Factor	1
DNP Power Scale Factor	1000
DNP Energy Scale Factor	1
DNP Power Factor Scale Factor	1
DNP Other Scale Factor	0.1
DNP Current Default Deadband	30000
DNP Voltage Default Deadband	30000
DNP Power Default Deadband	30000
DNP Energy Default Deadband	30000
DNP Power Factor Default Deadband	30000
DNP Other Default Deadband	30000
DNP Time Sync IIN Period	1440 min
DNP Message Fragment Size	240
DNP Number of Paired Controls	0
DNP TCP Connection Timeout	120 s
DNP Object 1 Default Variation	2
DNP Object 2 Default Variation	2
DNP Object 30 Default Variation	4
DNP Object 20 Default Variation	1
DNP Object 21 Default Variation	1
DNP Object 22 Default Variation	1
DNP Object 23 Default Variation	1
DNP Object 32 Default Variation	1

DNP - IEC104 POINTS LISTS

DNP Binary Input Point 0	TRIPBUS 1 OP
DNP Binary Input Point 1	AL ZONA1 On (VO9)
DNP Binary Input Point 2	AL ZONA2 On (VO10)
DNP Binary Input Point 3	PH DIST Z3 PKP
DNP Binary Input Point 4	GND DIST Z3 PKP
DNP Binary Input Point 5	AR CLOSE BKR 1
DNP Binary Input Point 6	AL. RES. DES On (VO4)
DNP Binary Input Point 7	ALARMA SF6 On(H3a)
DNP Binary Input Point 8	BLOQUEO SF6 On(H2c)
DNP Binary Input Point 9	MCB BARRA On(H3c)
DNP Binary Input Point 10	ANY MAJOR ERROR
DNP Binary Input Point 11	LED TEST MODE
DNP Binary Input Point 12	IRIG-b FAILURE
DNP Binary Input Point 13	SRC1 VT FUSE FAIL OP
DNP Binary Input Point 14	Virt Op 96 On (VO96)
DNP Binary Input Point 15	Virt Op 96 On (VO96)
DNP Binary Input Point 16	Virt Op 96 On (VO96)
DNP Binary Input Point 17	TRIP 21-21 On (VO80)
DNP Binary Input Point 18	TRIP 21-21N On (VO81)
DNP Binary Input Point 19	LINE PICKUP OP
DNP Binary Input Point 20	Virt Op 96 On (VO96)
DNP Binary Input Point 21	Virt Op 96 On (VO96)
DNP Binary Input Point 22	AL ZONA 3 On (VO13)
DNP Binary Input Point 23	Virt Op 96 On (VO96)
DNP Binary Input Point 24	Virt Op 96 On (VO96)
DNP Binary Input Point 25	Virt Op 96 On (VO96)
DNP Binary Input Point 26	LED TRIP
DNP Binary Input Point 27	LED PHASE A
DNP Binary Input Point 28	LED PHASE B
DNP Binary Input Point 29	LED PHASE C
DNP Binary Input Point 30	Virt Op 96 On (VO96)
DNP Binary Input Point 31	Virt Op 96 On (VO96)
DNP Binary Input Point 32	Virt Op 96 On (VO96)
DNP Binary Input Point 33	Virt Op 96 On (VO96)
DNP Binary Input Point 34	Virt Op 96 On (VO96)
DNP Binary Input Point 35	Virt Op 96 On (VO96)
DNP Binary Input Point 36	TRIP 67N On (VO82)
DNP Binary Input Point 37	Virt Op 96 On (VO96)
DNP Binary Input Point 38	Virt Op 96 On (VO96)
DNP Binary Input Point 39	Virt Op 96 On (VO96)
DNP Binary Input Point 40	79 HAB On(H2a)
DNP Binary Input Point 41	OFF
DNP Binary Input Point 42	OFF
DNP Binary Input Point 43	OFF
DNP Binary Input Point 44	OFF
DNP Binary Input Point 45	OFF

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VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B2\SE LMO BACKUP DEJADO PS2 PACO B02\_06082020\  
DEVICE DEFINITION  
DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
VERSION: 5.5X  
UR SERIAL NUMBER: AABC08000458  
SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05  
DESCRIPTION: PACO B2  
TEXT COLOR  
ASSOCIATED DEVICE: (NONE)

DNP - IEC104 POINTS LISTS (continued from last page)

DNP Binary Input Point 46	OFF
DNP Binary Input Point 47	OFF
DNP Binary Input Point 48	OFF
DNP Binary Input Point 49	OFF
DNP Binary Input Point 50	OFF
DNP Binary Input Point 51	OFF
DNP Binary Input Point 52	OFF
DNP Binary Input Point 53	OFF
DNP Binary Input Point 54	OFF
DNP Binary Input Point 55	OFF
DNP Binary Input Point 56	OFF
DNP Binary Input Point 57	OFF
DNP Binary Input Point 58	OFF
DNP Binary Input Point 59	OFF
DNP Binary Input Point 60	OFF
DNP Binary Input Point 61	OFF
DNP Binary Input Point 62	OFF
DNP Binary Input Point 63	OFF
DNP Binary Input Point 64	OFF
DNP Binary Input Point 65	OFF
DNP Binary Input Point 66	OFF
DNP Binary Input Point 67	OFF
DNP Binary Input Point 68	OFF
DNP Binary Input Point 69	OFF
DNP Binary Input Point 70	OFF
DNP Binary Input Point 71	OFF
DNP Binary Input Point 72	OFF
DNP Binary Input Point 73	OFF
DNP Binary Input Point 74	OFF
DNP Binary Input Point 75	OFF
DNP Binary Input Point 76	OFF
DNP Binary Input Point 77	OFF
DNP Binary Input Point 78	OFF
DNP Binary Input Point 79	OFF
DNP Binary Input Point 80	OFF
DNP Binary Input Point 81	OFF
DNP Binary Input Point 82	OFF
DNP Binary Input Point 83	OFF
DNP Binary Input Point 84	OFF
DNP Binary Input Point 85	OFF
DNP Binary Input Point 86	OFF
DNP Binary Input Point 87	OFF
DNP Binary Input Point 88	OFF
DNP Binary Input Point 89	OFF
DNP Binary Input Point 90	OFF
DNP Binary Input Point 91	OFF
DNP Binary Input Point 92	OFF
DNP Binary Input Point 93	OFF
DNP Binary Input Point 94	OFF
DNP Binary Input Point 95	OFF
DNP Binary Input Point 96	OFF
DNP Binary Input Point 97	OFF
DNP Binary Input Point 98	OFF
DNP Binary Input Point 99	OFF
DNP Binary Input Point 100	OFF
DNP Binary Input Point 101	OFF
DNP Binary Input Point 102	OFF
DNP Binary Input Point 103	OFF
DNP Binary Input Point 104	OFF
DNP Binary Input Point 105	OFF
DNP Binary Input Point 106	OFF
DNP Binary Input Point 107	OFF
DNP Binary Input Point 108	OFF
DNP Binary Input Point 109	OFF
DNP Binary Input Point 110	OFF
DNP Binary Input Point 111	OFF
DNP Binary Input Point 112	OFF
DNP Binary Input Point 113	OFF
DNP Binary Input Point 114	OFF
DNP Binary Input Point 115	OFF
DNP Binary Input Point 116	OFF

SE LMO BACKUP DEJADO PS2 PACO B02\_06082020.URS  
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VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B2\SE LMO BACKUP DEJADO PS2 PACO B02\_06082020\  
DEVICE DEFINITION  
DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
VERSION: 5.5X  
UR SERIAL NUMBER: AABC08000458  
SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05  
DESCRIPTION: PACO B2  
TEXT COLOR  
ASSOCIATED DEVICE: (NONE)

DNP - IEC104 POINTS LISTS (continued from last page)

DNP Binary Input Point 117	OFF
DNP Binary Input Point 118	OFF
DNP Binary Input Point 119	OFF
DNP Binary Input Point 120	OFF
DNP Binary Input Point 121	OFF
DNP Binary Input Point 122	OFF
DNP Binary Input Point 123	OFF
DNP Binary Input Point 124	OFF
DNP Binary Input Point 125	OFF
DNP Binary Input Point 126	OFF
DNP Binary Input Point 127	OFF
DNP Binary Input Point 128	OFF
DNP Binary Input Point 129	OFF
DNP Binary Input Point 130	OFF
DNP Binary Input Point 131	OFF
DNP Binary Input Point 132	OFF
DNP Binary Input Point 133	OFF
DNP Binary Input Point 134	OFF
DNP Binary Input Point 135	OFF
DNP Binary Input Point 136	OFF
DNP Binary Input Point 137	OFF
DNP Binary Input Point 138	OFF
DNP Binary Input Point 139	OFF
DNP Binary Input Point 140	OFF
DNP Binary Input Point 141	OFF
DNP Binary Input Point 142	OFF
DNP Binary Input Point 143	OFF
DNP Binary Input Point 144	OFF
DNP Binary Input Point 145	OFF
DNP Binary Input Point 146	OFF
DNP Binary Input Point 147	OFF
DNP Binary Input Point 148	OFF
DNP Binary Input Point 149	OFF
DNP Binary Input Point 150	OFF
DNP Binary Input Point 151	OFF
DNP Binary Input Point 152	OFF
DNP Binary Input Point 153	OFF
DNP Binary Input Point 154	OFF
DNP Binary Input Point 155	OFF
DNP Binary Input Point 156	OFF
DNP Binary Input Point 157	OFF
DNP Binary Input Point 158	OFF
DNP Binary Input Point 159	OFF
DNP Binary Input Point 160	OFF
DNP Binary Input Point 161	OFF
DNP Binary Input Point 162	OFF
DNP Binary Input Point 163	OFF
DNP Binary Input Point 164	OFF
DNP Binary Input Point 165	OFF
DNP Binary Input Point 166	OFF
DNP Binary Input Point 167	OFF
DNP Binary Input Point 168	OFF
DNP Binary Input Point 169	OFF
DNP Binary Input Point 170	OFF
DNP Binary Input Point 171	OFF
DNP Binary Input Point 172	OFF
DNP Binary Input Point 173	OFF
DNP Binary Input Point 174	OFF
DNP Binary Input Point 175	OFF
DNP Binary Input Point 176	OFF
DNP Binary Input Point 177	OFF
DNP Binary Input Point 178	OFF
DNP Binary Input Point 179	OFF
DNP Binary Input Point 180	OFF
DNP Binary Input Point 181	OFF
DNP Binary Input Point 182	OFF
DNP Binary Input Point 183	OFF
DNP Binary Input Point 184	OFF
DNP Binary Input Point 185	OFF
DNP Binary Input Point 186	OFF
DNP Binary Input Point 187	OFF



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 DEVICE DEFINITION  
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ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
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 UR SERIAL NUMBER: AABC08000458  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05  
 DESCRIPTION: PACO B2  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

DNP - IEC104 POINTS LISTS (continued from last page)

DNP Binary Input Point 188	OFF
DNP Binary Input Point 189	OFF
DNP Binary Input Point 190	OFF
DNP Binary Input Point 191	OFF
DNP Binary Input Point 192	OFF
DNP Binary Input Point 193	OFF
DNP Binary Input Point 194	OFF
DNP Binary Input Point 195	OFF
DNP Binary Input Point 196	OFF
DNP Binary Input Point 197	OFF
DNP Binary Input Point 198	OFF
DNP Binary Input Point 199	OFF
DNP Binary Input Point 200	OFF
DNP Binary Input Point 201	OFF
DNP Binary Input Point 202	OFF
DNP Binary Input Point 203	OFF
DNP Binary Input Point 204	OFF
DNP Binary Input Point 205	OFF
DNP Binary Input Point 206	OFF
DNP Binary Input Point 207	OFF
DNP Binary Input Point 208	OFF
DNP Binary Input Point 209	OFF
DNP Binary Input Point 210	OFF
DNP Binary Input Point 211	OFF
DNP Binary Input Point 212	OFF
DNP Binary Input Point 213	OFF
DNP Binary Input Point 214	OFF
DNP Binary Input Point 215	OFF
DNP Binary Input Point 216	OFF
DNP Binary Input Point 217	OFF
DNP Binary Input Point 218	OFF
DNP Binary Input Point 219	OFF
DNP Binary Input Point 220	OFF
DNP Binary Input Point 221	OFF
DNP Binary Input Point 222	OFF
DNP Binary Input Point 223	OFF
DNP Binary Input Point 224	OFF
DNP Binary Input Point 225	OFF
DNP Binary Input Point 226	OFF
DNP Binary Input Point 227	OFF
DNP Binary Input Point 228	OFF
DNP Binary Input Point 229	OFF
DNP Binary Input Point 230	OFF
DNP Binary Input Point 231	OFF
DNP Binary Input Point 232	OFF
DNP Binary Input Point 233	OFF
DNP Binary Input Point 234	OFF
DNP Binary Input Point 235	OFF
DNP Binary Input Point 236	OFF
DNP Binary Input Point 237	OFF
DNP Binary Input Point 238	OFF
DNP Binary Input Point 239	OFF
DNP Binary Input Point 240	OFF
DNP Binary Input Point 241	OFF
DNP Binary Input Point 242	OFF
DNP Binary Input Point 243	OFF
DNP Binary Input Point 244	OFF
DNP Binary Input Point 245	OFF
DNP Binary Input Point 246	OFF
DNP Binary Input Point 247	OFF
DNP Binary Input Point 248	OFF
DNP Binary Input Point 249	OFF
DNP Binary Input Point 250	OFF
DNP Binary Input Point 251	OFF
DNP Binary Input Point 252	OFF
DNP Binary Input Point 253	OFF
DNP Binary Input Point 254	OFF
DNP Binary Input Point 255	OFF
DNP Analog Input Point 0	SRC1 P
DNP Analog Input Point 1	SRC1 Q
DNP Analog Input Point 2	Fault Location [1]

SE LMO BACKUP DEJADO PS2 PACO B02\_06082020.URS  
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VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B2\SE LMO BACKUP DEJADO PS2 PACO B02\_06082020\  
DEVICE DEFINITION  
DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
VERSION: 5.5X  
UR SERIAL NUMBER: AABC08000458  
SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05  
DESCRIPTION: PACO B2  
TEXT COLOR  
ASSOCIATED DEVICE: (NONE)

---

DNP - IEC104 POINTS LISTS (continued from last page)

DNP Analog Input Point 3	OFF
DNP Analog Input Point 4	OFF
DNP Analog Input Point 5	OFF
DNP Analog Input Point 6	OFF
DNP Analog Input Point 7	OFF
DNP Analog Input Point 8	OFF
DNP Analog Input Point 9	OFF
DNP Analog Input Point 10	OFF
DNP Analog Input Point 11	OFF
DNP Analog Input Point 12	OFF
DNP Analog Input Point 13	OFF
DNP Analog Input Point 14	OFF
DNP Analog Input Point 15	OFF
DNP Analog Input Point 16	OFF
DNP Analog Input Point 17	OFF
DNP Analog Input Point 18	OFF
DNP Analog Input Point 19	OFF
DNP Analog Input Point 20	OFF
DNP Analog Input Point 21	OFF
DNP Analog Input Point 22	OFF
DNP Analog Input Point 23	OFF
DNP Analog Input Point 24	OFF
DNP Analog Input Point 25	OFF
DNP Analog Input Point 26	OFF
DNP Analog Input Point 27	OFF
DNP Analog Input Point 28	OFF
DNP Analog Input Point 29	OFF
DNP Analog Input Point 30	OFF
DNP Analog Input Point 31	OFF
DNP Analog Input Point 32	OFF
DNP Analog Input Point 33	OFF
DNP Analog Input Point 34	OFF
DNP Analog Input Point 35	OFF
DNP Analog Input Point 36	OFF
DNP Analog Input Point 37	OFF
DNP Analog Input Point 38	OFF
DNP Analog Input Point 39	OFF
DNP Analog Input Point 40	OFF
DNP Analog Input Point 41	OFF
DNP Analog Input Point 42	OFF
DNP Analog Input Point 43	OFF
DNP Analog Input Point 44	OFF
DNP Analog Input Point 45	OFF
DNP Analog Input Point 46	OFF
DNP Analog Input Point 47	OFF
DNP Analog Input Point 48	OFF
DNP Analog Input Point 49	OFF
DNP Analog Input Point 50	OFF
DNP Analog Input Point 51	OFF
DNP Analog Input Point 52	OFF
DNP Analog Input Point 53	OFF
DNP Analog Input Point 54	OFF
DNP Analog Input Point 55	OFF
DNP Analog Input Point 56	OFF
DNP Analog Input Point 57	OFF
DNP Analog Input Point 58	OFF
DNP Analog Input Point 59	OFF
DNP Analog Input Point 60	OFF
DNP Analog Input Point 61	OFF
DNP Analog Input Point 62	OFF
DNP Analog Input Point 63	OFF
DNP Analog Input Point 64	OFF
DNP Analog Input Point 65	OFF
DNP Analog Input Point 66	OFF
DNP Analog Input Point 67	OFF
DNP Analog Input Point 68	OFF
DNP Analog Input Point 69	OFF
DNP Analog Input Point 70	OFF
DNP Analog Input Point 71	OFF
DNP Analog Input Point 72	OFF
DNP Analog Input Point 73	OFF

SE LMO BACKUP DEJADO PS2 PACO B02\_06082020.URS  
C:\USERS\MFIGUEROA\DOCUMENTS\DOCUMENTOS PC ANTERIOR\OMICRON 2.0\VERIFICACIONES\SE LOS MOLLES\

VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B2\SE LMO BACKUP DEJADO PS2 PACO B02\_06082020\  
DEVICE DEFINITION  
DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
VERSION: 5.5X  
UR SERIAL NUMBER: AABC08000458  
SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05  
DESCRIPTION: PACO B2  
TEXT COLOR  
ASSOCIATED DEVICE: (NONE)

DNP - IEC104 POINTS LISTS (continued from last page)

DNP Analog Input Point 74	OFF
DNP Analog Input Point 75	OFF
DNP Analog Input Point 76	OFF
DNP Analog Input Point 77	OFF
DNP Analog Input Point 78	OFF
DNP Analog Input Point 79	OFF
DNP Analog Input Point 80	OFF
DNP Analog Input Point 81	OFF
DNP Analog Input Point 82	OFF
DNP Analog Input Point 83	OFF
DNP Analog Input Point 84	OFF
DNP Analog Input Point 85	OFF
DNP Analog Input Point 86	OFF
DNP Analog Input Point 87	OFF
DNP Analog Input Point 88	OFF
DNP Analog Input Point 89	OFF
DNP Analog Input Point 90	OFF
DNP Analog Input Point 91	OFF
DNP Analog Input Point 92	OFF
DNP Analog Input Point 93	OFF
DNP Analog Input Point 94	OFF
DNP Analog Input Point 95	OFF
DNP Analog Input Point 96	OFF
DNP Analog Input Point 97	OFF
DNP Analog Input Point 98	OFF
DNP Analog Input Point 99	OFF
DNP Analog Input Point 100	OFF
DNP Analog Input Point 101	OFF
DNP Analog Input Point 102	OFF
DNP Analog Input Point 103	OFF
DNP Analog Input Point 104	OFF
DNP Analog Input Point 105	OFF
DNP Analog Input Point 106	OFF
DNP Analog Input Point 107	OFF
DNP Analog Input Point 108	OFF
DNP Analog Input Point 109	OFF
DNP Analog Input Point 110	OFF
DNP Analog Input Point 111	OFF
DNP Analog Input Point 112	OFF
DNP Analog Input Point 113	OFF
DNP Analog Input Point 114	OFF
DNP Analog Input Point 115	OFF
DNP Analog Input Point 116	OFF
DNP Analog Input Point 117	OFF
DNP Analog Input Point 118	OFF
DNP Analog Input Point 119	OFF
DNP Analog Input Point 120	OFF
DNP Analog Input Point 121	OFF
DNP Analog Input Point 122	OFF
DNP Analog Input Point 123	OFF
DNP Analog Input Point 124	OFF
DNP Analog Input Point 125	OFF
DNP Analog Input Point 126	OFF
DNP Analog Input Point 127	OFF
DNP Analog Input Point 128	OFF
DNP Analog Input Point 129	OFF
DNP Analog Input Point 130	OFF
DNP Analog Input Point 131	OFF
DNP Analog Input Point 132	OFF
DNP Analog Input Point 133	OFF
DNP Analog Input Point 134	OFF
DNP Analog Input Point 135	OFF
DNP Analog Input Point 136	OFF
DNP Analog Input Point 137	OFF
DNP Analog Input Point 138	OFF
DNP Analog Input Point 139	OFF
DNP Analog Input Point 140	OFF
DNP Analog Input Point 141	OFF
DNP Analog Input Point 142	OFF
DNP Analog Input Point 143	OFF
DNP Analog Input Point 144	OFF

SE LMO BACKUP DEJADO PS2 PACO B02\_06082020.URS  
C:\USERS\MFIGUEROA\DOCUMENTS\DOCUMENTOS PC ANTERIOR\OMICRON 2.0\VERIFICACIONES\SE LOS MOLLES\

VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B2\SE LMO BACKUP DEJADO PS2 PACO B02\_06082020\

DEVICE DEFINITION

DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
VERSION: 5.5X  
UR SERIAL NUMBER: AABC08000458  
SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05  
DESCRIPTION: PACO B2  
TEXT COLOR  
ASSOCIATED DEVICE: (NONE)

DNP - IEC104 POINTS LISTS (continued from last page)

DNP Analog Input Point 145	OFF
DNP Analog Input Point 146	OFF
DNP Analog Input Point 147	OFF
DNP Analog Input Point 148	OFF
DNP Analog Input Point 149	OFF
DNP Analog Input Point 150	OFF
DNP Analog Input Point 151	OFF
DNP Analog Input Point 152	OFF
DNP Analog Input Point 153	OFF
DNP Analog Input Point 154	OFF
DNP Analog Input Point 155	OFF
DNP Analog Input Point 156	OFF
DNP Analog Input Point 157	OFF
DNP Analog Input Point 158	OFF
DNP Analog Input Point 159	OFF
DNP Analog Input Point 160	OFF
DNP Analog Input Point 161	OFF
DNP Analog Input Point 162	OFF
DNP Analog Input Point 163	OFF
DNP Analog Input Point 164	OFF
DNP Analog Input Point 165	OFF
DNP Analog Input Point 166	OFF
DNP Analog Input Point 167	OFF
DNP Analog Input Point 168	OFF
DNP Analog Input Point 169	OFF
DNP Analog Input Point 170	OFF
DNP Analog Input Point 171	OFF
DNP Analog Input Point 172	OFF
DNP Analog Input Point 173	OFF
DNP Analog Input Point 174	OFF
DNP Analog Input Point 175	OFF
DNP Analog Input Point 176	OFF
DNP Analog Input Point 177	OFF
DNP Analog Input Point 178	OFF
DNP Analog Input Point 179	OFF
DNP Analog Input Point 180	OFF
DNP Analog Input Point 181	OFF
DNP Analog Input Point 182	OFF
DNP Analog Input Point 183	OFF
DNP Analog Input Point 184	OFF
DNP Analog Input Point 185	OFF
DNP Analog Input Point 186	OFF
DNP Analog Input Point 187	OFF
DNP Analog Input Point 188	OFF
DNP Analog Input Point 189	OFF
DNP Analog Input Point 190	OFF
DNP Analog Input Point 191	OFF
DNP Analog Input Point 192	OFF
DNP Analog Input Point 193	OFF
DNP Analog Input Point 194	OFF
DNP Analog Input Point 195	OFF
DNP Analog Input Point 196	OFF
DNP Analog Input Point 197	OFF
DNP Analog Input Point 198	OFF
DNP Analog Input Point 199	OFF
DNP Analog Input Point 200	OFF
DNP Analog Input Point 201	OFF
DNP Analog Input Point 202	OFF
DNP Analog Input Point 203	OFF
DNP Analog Input Point 204	OFF
DNP Analog Input Point 205	OFF
DNP Analog Input Point 206	OFF
DNP Analog Input Point 207	OFF
DNP Analog Input Point 208	OFF
DNP Analog Input Point 209	OFF
DNP Analog Input Point 210	OFF
DNP Analog Input Point 211	OFF
DNP Analog Input Point 212	OFF
DNP Analog Input Point 213	OFF
DNP Analog Input Point 214	OFF
DNP Analog Input Point 215	OFF

SE LMO BACKUP DEJADO PS2 PACO B02\_06082020.URS  
 C:\USERS\MFIGUEROA\DOCUMENTS\DOCUMENTOS PC ANTERIOR\OMICRON 2.0\VERIFICACIONES\SE LOS MOLLES\  
 VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B2\SE LMO BACKUP DEJADO PS2 PACO B02\_06082020\

DEVICE DEFINITION

DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000458  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05  
 DESCRIPTION: PACO B2  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

DNP - IEC104 POINTS LISTS (continued from last page)

DNP Analog Input Point 216	OFF
DNP Analog Input Point 217	OFF
DNP Analog Input Point 218	OFF
DNP Analog Input Point 219	OFF
DNP Analog Input Point 220	OFF
DNP Analog Input Point 221	OFF
DNP Analog Input Point 222	OFF
DNP Analog Input Point 223	OFF
DNP Analog Input Point 224	OFF
DNP Analog Input Point 225	OFF
DNP Analog Input Point 226	OFF
DNP Analog Input Point 227	OFF
DNP Analog Input Point 228	OFF
DNP Analog Input Point 229	OFF
DNP Analog Input Point 230	OFF
DNP Analog Input Point 231	OFF
DNP Analog Input Point 232	OFF
DNP Analog Input Point 233	OFF
DNP Analog Input Point 234	OFF
DNP Analog Input Point 235	OFF
DNP Analog Input Point 236	OFF
DNP Analog Input Point 237	OFF
DNP Analog Input Point 238	OFF
DNP Analog Input Point 239	OFF
DNP Analog Input Point 240	OFF
DNP Analog Input Point 241	OFF
DNP Analog Input Point 242	OFF
DNP Analog Input Point 243	OFF
DNP Analog Input Point 244	OFF
DNP Analog Input Point 245	OFF
DNP Analog Input Point 246	OFF
DNP Analog Input Point 247	OFF
DNP Analog Input Point 248	OFF
DNP Analog Input Point 249	OFF
DNP Analog Input Point 250	OFF
DNP Analog Input Point 251	OFF
DNP Analog Input Point 252	OFF
DNP Analog Input Point 253	OFF
DNP Analog Input Point 254	OFF
DNP Analog Input Point 255	OFF

HTTP

HTTP TCP Port Number	80
----------------------	----

TFTP

TFTP Main UDP Port Number	69
TFTP Data UDP Port Number 1	0
TFTP Data UDP Port Number 2	0

IEC 60870-5-104

Function	Disabled
IEC TCP Port Number	2404
IEC Client Address 1	0. 0. 0. 0
IEC Client Address 2	0. 0. 0. 0
IEC Client Address 3	0. 0. 0. 0
IEC Client Address 4	0. 0. 0. 0
IEC Client Address 5	0. 0. 0. 0
IEC Common Address of ASDU	0
IEC Cyclic Data Period	60 s
IEC Current Default Threshold	30000
IEC Voltage Default Threshold	30000
IEC Power Default Threshold	30000
IEC Energy Default Threshold	30000
IEC Power Factor Default Threshold	30000
IEC Other Default Threshold	30000

SNTP

Function	Disabled
Server IP Address	0. 0. 0. 0
UDP Port Number	123

SE LMO BACKUP DEJADO PS2 PACO B02\_06082020.URS  
C:\USERS\MFIGUEROA\DOCUMENTS\DOCUMENTOS PC ANTERIOR\OMICRON 2.0\VERIFICACIONES\SE LOS MOLLES\  
VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B2\SE LMO BACKUP DEJADO PS2 PACO B02\_06082020\

DEVICE DEFINITION

DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
VERSION: 5.5X  
UR SERIAL NUMBER: AABC08000458  
SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05  
DESCRIPTION: PACO B2  
TEXT COLOR  
ASSOCIATED DEVICE: (NONE)

---

MODBUS USER MAP

Address 1	0
Address 2	0
Address 3	0
Address 4	0
Address 5	0
Address 6	0
Address 7	0
Address 8	0
Address 9	0
Address 10	0
Address 11	0
Address 12	0
Address 13	0
Address 14	0
Address 15	0
Address 16	0
Address 17	0
Address 18	0
Address 19	0
Address 20	0
Address 21	0
Address 22	0
Address 23	0
Address 24	0
Address 25	0
Address 26	0
Address 27	0
Address 28	0
Address 29	0
Address 30	0
Address 31	0
Address 32	0
Address 33	0
Address 34	0
Address 35	0
Address 36	0
Address 37	0
Address 38	0
Address 39	0
Address 40	0
Address 41	0
Address 42	0
Address 43	0
Address 44	0
Address 45	0
Address 46	0
Address 47	0
Address 48	0
Address 49	0
Address 50	0
Address 51	0
Address 52	0
Address 53	0
Address 54	0
Address 55	0
Address 56	0
Address 57	0
Address 58	0
Address 59	0
Address 60	0
Address 61	0
Address 62	0
Address 63	0
Address 64	0
Address 65	0
Address 66	0
Address 67	0
Address 68	0
Address 69	0
Address 70	0
Address 71	0

SE LMO BACKUP DEJADO PS2 PACO B02\_06082020.URS  
C:\USERS\MFIGUEROA\DOCUMENTS\DOCUMENTOS PC ANTERIOR\OMICRON 2.0\VERIFICACIONES\SE LOS MOLLES\  
VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B2\SE LMO BACKUP DEJADO PS2 PACO B02\_06082020\  
DEVICE DEFINITION  
DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
VERSION: 5.5X  
UR SERIAL NUMBER: AABC08000458  
SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05  
DESCRIPTION: PACO B2  
TEXT COLOR  
ASSOCIATED DEVICE: (NONE)

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MODBUS USER MAP (continued from last page)

Address 72	0
Address 73	0
Address 74	0
Address 75	0
Address 76	0
Address 77	0
Address 78	0
Address 79	0
Address 80	0
Address 81	0
Address 82	0
Address 83	0
Address 84	0
Address 85	0
Address 86	0
Address 87	0
Address 88	0
Address 89	0
Address 90	0
Address 91	0
Address 92	0
Address 93	0
Address 94	0
Address 95	0
Address 96	0
Address 97	0
Address 98	0
Address 99	0
Address 100	0
Address 101	0
Address 102	0
Address 103	0
Address 104	0
Address 105	0
Address 106	0
Address 107	0
Address 108	0
Address 109	0
Address 110	0
Address 111	0
Address 112	0
Address 113	0
Address 114	0
Address 115	0
Address 116	0
Address 117	0
Address 118	0
Address 119	0
Address 120	0
Address 121	0
Address 122	0
Address 123	0
Address 124	0
Address 125	0
Address 126	0
Address 127	0
Address 128	0
Address 129	0
Address 130	0
Address 131	0
Address 132	0
Address 133	0
Address 134	0
Address 135	0
Address 136	0
Address 137	0
Address 138	0
Address 139	0
Address 140	0
Address 141	0
Address 142	0

SE LMO BACKUP DEJADO PS2 PACO B02\_06082020.URS  
C:\USERS\MFIGUEROA\DOCUMENTS\DOCUMENTOS PC ANTERIOR\OMICRON 2.0\VERIFICACIONES\SE LOS MOLLES\  
VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B2\SE LMO BACKUP DEJADO PS2 PACO B02\_06082020\  
DEVICE DEFINITION  
DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
VERSION: 5.5X  
UR SERIAL NUMBER: AABC08000458  
SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05  
DESCRIPTION: PACO B2  
TEXT COLOR  
ASSOCIATED DEVICE: (NONE)

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MODBUS USER MAP (continued from last page)

Address 143	0
Address 144	0
Address 145	0
Address 146	0
Address 147	0
Address 148	0
Address 149	0
Address 150	0
Address 151	0
Address 152	0
Address 153	0
Address 154	0
Address 155	0
Address 156	0
Address 157	0
Address 158	0
Address 159	0
Address 160	0
Address 161	0
Address 162	0
Address 163	0
Address 164	0
Address 165	0
Address 166	0
Address 167	0
Address 168	0
Address 169	0
Address 170	0
Address 171	0
Address 172	0
Address 173	0
Address 174	0
Address 175	0
Address 176	0
Address 177	0
Address 178	0
Address 179	0
Address 180	0
Address 181	0
Address 182	0
Address 183	0
Address 184	0
Address 185	0
Address 186	0
Address 187	0
Address 188	0
Address 189	0
Address 190	0
Address 191	0
Address 192	0
Address 193	0
Address 194	0
Address 195	0
Address 196	0
Address 197	0
Address 198	0
Address 199	0
Address 200	0
Address 201	0
Address 202	0
Address 203	0
Address 204	0
Address 205	0
Address 206	0
Address 207	0
Address 208	0
Address 209	0
Address 210	0
Address 211	0
Address 212	0
Address 213	0



SE LMO BACKUP DEJADO PS2 PACO B02\_06082020.URS  
 C:\USERS\MFIGUEROA\DOCUMENTS\DOCUMENTOS PC ANTERIOR\OMICRON 2.0\VERIFICACIONES\SE LOS MOLLES\  
 VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B2\SE LMO BACKUP DEJADO PS2 PACO B02\_06082020\

DEVICE DEFINITION

DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000458  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05  
 DESCRIPTION: PACO B2  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

MODBUS USER MAP (continued from last page)

Address 214	0
Address 215	0
Address 216	0
Address 217	0
Address 218	0
Address 219	0
Address 220	0
Address 221	0
Address 222	0
Address 223	0
Address 224	0
Address 225	0
Address 226	0
Address 227	0
Address 228	0
Address 229	0
Address 230	0
Address 231	0
Address 232	0
Address 233	0
Address 234	0
Address 235	0
Address 236	0
Address 237	0
Address 238	0
Address 239	0
Address 240	0
Address 241	0
Address 242	0
Address 243	0
Address 244	0
Address 245	0
Address 246	0
Address 247	0
Address 248	0
Address 249	0
Address 250	0
Address 251	0
Address 252	0
Address 253	0
Address 254	0
Address 255	0
Address 256	0

REAL TIME CLOCK

IRIG-B Signal Type	DC Shift
Real Time Clock Events	Enabled
Time Zone Offset	0.0 hr
DST Function	Disabled
DST Start Month	March
DST Start Day	Sunday
DST Start Day Instance	First
DST Start Hour	0
DST Stop Month	April
DST Stop Day	Sunday
DST Stop Day Instance	First
DST Stop Hour	0

FAULT REPORT

Fault Report 1 Source	SRC 1 (SRC 1)
Fault Report 1 Trigger	TRIPBUS 1 OP
Fault Report 1 Positive Seq (Z1) Mag	1.53 ohms
Fault Report 1 Positive Seq (Z1) Angle	61 deg
Fault Report 1 Zero Seq (Z0) Mag	5.41 ohms
Fault Report 1 Zero Seq (Z0) Angle	73 deg
Fault Report 1 Line Length Units	km
Fault Report 1 Line Length	66.8
Fault Report 1 VT Substitution	None
Fault Report 1 System Z0 Mag	2.00 ohms
Fault Report 1 System Z0 Angle	75 deg

SE LMO BACKUP DEJADO PS2 PACO B02\_06082020.URS  
 C:\USERS\MFIGUEROA\DOCUMENTS\DOCUMENTOS PC ANTERIOR\OMICRON 2.0\VERIFICACIONES\SE LOS MOLLES\  
 VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B2\SE LMO BACKUP DEJADO PS2 PACO B02\_06082020\

DEVICE DEFINITION

DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000458  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05  
 DESCRIPTION: PACO B2  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

OSCILLOGRAPHY

Number Of Records	64
Trigger Mode	Automatic Overwrite
Trigger Position	30 %
Trigger Source	TRIPBUS 1 OP
AC Input Waveforms	16 samples/cycle
Digital Channel 1	TRIP 3-POLE
Digital Channel 2	LED PHASE A
Digital Channel 3	LED PHASE B
Digital Channel 4	LED PHASE C
Digital Channel 5	LED TRIP
Digital Channel 6	LED TROUBLE
Digital Channel 7	52B2 CERRADO On(H1a)
Digital Channel 8	RESORTE DESC On(H1c)
Digital Channel 9	79 HAB On(H2a)
Digital Channel 10	BLOQUEO SF6 On(H2c)
Digital Channel 11	MCB BARRA On(H3c)
Digital Channel 12	SUP 79 On(H4a)
Digital Channel 13	PH DIST Z1 OP
Digital Channel 14	PH DIST Z2 OP
Digital Channel 15	PH DIST Z3 OP
Digital Channel 16	GND DIST Z1 OP
Digital Channel 17	GND DIST Z2 OP
Digital Channel 18	GND DIST Z3 OP
Digital Channel 19	NEUTRAL TOC1 OP
Digital Channel 20	NTRL DIR OC1 FWD
Digital Channel 21	NTRL DIR OC1 REV
Digital Channel 22	NEUTRAL IOC1 OP
Digital Channel 23	LED PICKUP
Digital Channel 24	AR 3-P/1 RIP
Digital Channel 25	AR CLOSE BKR 1
Digital Channel 26	AR DISABLED
Digital Channel 27	AR ENABLED
Digital Channel 28	AR LO
Digital Channel 29	AR RIP
Digital Channel 30	PH DIST Z1 PKP
Digital Channel 31	PH DIST Z2 PKP
Digital Channel 32	PH DIST Z3 PKP
Digital Channel 33	GND DIST Z1 PKP
Digital Channel 34	GND DIST Z2 PKP
Digital Channel 35	GND DIST Z3 PKP
Digital Channel 36	NEUTRAL TOC1 PKP
Digital Channel 37	NEUTRAL IOC1 PKP
Digital Channel 38	LINE PICKUP OP
Digital Channel 39	LINE PICKUP PKP
Digital Channel 40	LINE PICKUP RCL TRIP
Digital Channel 41	OFF
Digital Channel 42	OFF
Digital Channel 43	OFF
Digital Channel 44	OFF
Digital Channel 45	OFF
Digital Channel 46	OFF
Digital Channel 47	OFF
Digital Channel 48	OFF
Digital Channel 49	OFF
Digital Channel 50	OFF
Digital Channel 51	OFF
Digital Channel 52	OFF
Digital Channel 53	OFF
Digital Channel 54	OFF
Digital Channel 55	OFF
Digital Channel 56	OFF
Digital Channel 57	OFF
Digital Channel 58	OFF
Digital Channel 59	OFF
Digital Channel 60	OFF
Digital Channel 61	OFF
Digital Channel 62	OFF
Digital Channel 63	OFF
Analog Channel 1	SRC1 Ia Mag
Analog Channel 2	SRC1 Ib Mag
Analog Channel 3	SRC1 Ic Mag

SE LMO BACKUP DEJADO PS2 PACO B02\_06082020.URS  
 C:\USERS\MFIGUEROA\DOCUMENTS\DOCUMENTOS PC ANTERIOR\OMICRON 2.0\VERIFICACIONES\SE LOS MOLLES\  
 VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B2\SE LMO BACKUP DEJADO PS2 PACO B02\_06082020\

DEVICE DEFINITION

DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000458  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05  
 DESCRIPTION: PACO B2  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

OSCILLOGRAPHY (continued from last page)

Analog Channel 4	SRC1	In Mag
Analog Channel 5	SRC1	Vag Mag
Analog Channel 6	SRC1	Vbg Mag
Analog Channel 7	SRC1	Vcg Mag
Analog Channel 8		Fault Location [1]
Analog Channel 9		OFF
Analog Channel 10		OFF
Analog Channel 11		OFF
Analog Channel 12		OFF
Analog Channel 13		OFF
Analog Channel 14		OFF
Analog Channel 15		OFF
Analog Channel 16		OFF

DATA LOGGER

Data Logger Mode	Continuous
Data Logger Trigger	OFF
Rate	60000 msec
Channel 1	OFF
Channel 2	OFF
Channel 3	OFF
Channel 4	OFF
Channel 5	OFF
Channel 6	OFF
Channel 7	OFF
Channel 8	OFF
Channel 9	OFF
Channel 10	OFF
Channel 11	OFF
Channel 12	OFF
Channel 13	OFF
Channel 14	OFF
Channel 15	OFF
Channel 16	OFF
Configuration	--- CHNL x --- DAYS

USER-PROGRAMMABLE LEDES

LED TEST

Function	Disabled
Control	OFF

TRIP AND ALARMS LEDES

Trip LED Input	TRIPBUS 1 OP
Alarm LED Input	OFF

USER PROGRAMMABLE LEDES

LED 1: OPERAND	52B2 CERRADO On(H1a)
LED 1: TYPE	Self-Reset
LED 2: OPERAND	AL. RES. DES On (VO4)
LED 2: TYPE	Self-Reset
LED 3: OPERAND	79 HAB On(H2a)
LED 3: TYPE	Self-Reset
LED 4: OPERAND	SUP 79 On(H4a)
LED 4: TYPE	Self-Reset
LED 5: OPERAND	ALARMA SF6 On(H3a)
LED 5: TYPE	Self-Reset
LED 6: OPERAND	BLOQUEO SF6 On(H2c)
LED 6: TYPE	Self-Reset
LED 7: OPERAND	MCB BARRA On(H3c)
LED 7: TYPE	Self-Reset
LED 8: OPERAND	OFF
LED 8: TYPE	Self-Reset
LED 9: OPERAND	OFF
LED 9: TYPE	Self-Reset
LED 10: OPERAND	OFF
LED 10: TYPE	Self-Reset
LED 11: OPERAND	OFF
LED 11: TYPE	Self-Reset
LED 12: OPERAND	OFF
LED 12: TYPE	Self-Reset
LED 13: OPERAND	AL ZONA1 On (VO9)

SE LMO BACKUP DEJADO PS2 PACO B02\_06082020.URS  
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 VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B2\SE LMO BACKUP DEJADO PS2 PACO B02\_06082020\

DEVICE DEFINITION

DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000458  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05  
 DESCRIPTION: PACO B2  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

USER PROGRAMMABLE LEDES (continued from last page)

LED 13: TYPE	Latched
LED 14: OPERAND	AL ZONA2 On (VO10)
LED 14: TYPE	Latched
LED 15: OPERAND	AL ZONA 3 On (VO13)
LED 15: TYPE	Latched
LED 16: OPERAND	NEUTRAL IOC1 OP
LED 16: TYPE	Latched
LED 17: OPERAND	NEUTRAL TOC1 OP
LED 17: TYPE	Latched
LED 18: OPERAND	OFF
LED 18: TYPE	Self-Reset
LED 19: OPERAND	OFF
LED 19: TYPE	Self-Reset
LED 20: OPERAND	OFF
LED 20: TYPE	Self-Reset
LED 21: OPERAND	OFF
LED 21: TYPE	Self-Reset
LED 22: OPERAND	OFF
LED 22: TYPE	Self-Reset
LED 23: OPERAND	OFF
LED 23: TYPE	Self-Reset
LED 24: OPERAND	OFF
LED 24: TYPE	Self-Reset
LED 25: OPERAND	OFF
LED 25: TYPE	Self-Reset
LED 26: OPERAND	OFF
LED 26: TYPE	Self-Reset
LED 27: OPERAND	OFF
LED 27: TYPE	Self-Reset
LED 28: OPERAND	OFF
LED 28: TYPE	Self-Reset
LED 29: OPERAND	OFF
LED 29: TYPE	Self-Reset
LED 30: OPERAND	OFF
LED 30: TYPE	Self-Reset
LED 31: OPERAND	OFF
LED 31: TYPE	Self-Reset
LED 32: OPERAND	OFF
LED 32: TYPE	Self-Reset
LED 33: OPERAND	OFF
LED 33: TYPE	Self-Reset
LED 34: OPERAND	OFF
LED 34: TYPE	Self-Reset
LED 35: OPERAND	OFF
LED 35: TYPE	Self-Reset
LED 36: OPERAND	OFF
LED 36: TYPE	Self-Reset
LED 37: OPERAND	OFF
LED 37: TYPE	Self-Reset
LED 38: OPERAND	OFF
LED 38: TYPE	Self-Reset
LED 39: OPERAND	OFF
LED 39: TYPE	Self-Reset
LED 40: OPERAND	OFF
LED 40: TYPE	Self-Reset
LED 41: OPERAND	OFF
LED 41: TYPE	Self-Reset
LED 42: OPERAND	OFF
LED 42: TYPE	Self-Reset
LED 43: OPERAND	OFF
LED 43: TYPE	Self-Reset
LED 44: OPERAND	OFF
LED 44: TYPE	Self-Reset
LED 45: OPERAND	OFF
LED 45: TYPE	Self-Reset
LED 46: OPERAND	OFF
LED 46: TYPE	Self-Reset
LED 47: OPERAND	OFF
LED 47: TYPE	Self-Reset
LED 48: OPERAND	OFF
LED 48: TYPE	Self-Reset

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 VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B2\SE LMO BACKUP DEJADO PS2 PACO B02\_06082020\

DEVICE DEFINITION

DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
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 UR SERIAL NUMBER: AABC08000458  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05  
 DESCRIPTION: PACO B2  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

USER-PROGRAMMABLE SELF TESTS

Remote Device Off Function	Enabled
Pri Ethernet Fail Function	Disabled
Battery Fail Function	Enabled
SNTP Fail Function	Enabled
IRIG B Fail Function	Enabled

CONTROL PUSHBUTTONS

CPB 1: Function	Disabled
CPB 1: Events	Disabled
CPB 2: Function	Disabled
CPB 2: Events	Disabled
CPB 3: Function	Disabled
CPB 3: Events	Disabled

FLEX STATES

Parameter 1	OFF
Parameter 2	OFF
Parameter 3	OFF
Parameter 4	OFF
Parameter 5	OFF
Parameter 6	OFF
Parameter 7	OFF
Parameter 8	OFF
Parameter 9	OFF
Parameter 10	OFF
Parameter 11	OFF
Parameter 12	OFF
Parameter 13	OFF
Parameter 14	OFF
Parameter 15	OFF
Parameter 16	OFF
Parameter 17	OFF
Parameter 18	OFF
Parameter 19	OFF
Parameter 20	OFF
Parameter 21	OFF
Parameter 22	OFF
Parameter 23	OFF
Parameter 24	OFF
Parameter 25	OFF
Parameter 26	OFF
Parameter 27	OFF
Parameter 28	OFF
Parameter 29	OFF
Parameter 30	OFF
Parameter 31	OFF
Parameter 32	OFF
Parameter 33	OFF
Parameter 34	OFF
Parameter 35	OFF
Parameter 36	OFF
Parameter 37	OFF
Parameter 38	OFF
Parameter 39	OFF
Parameter 40	OFF
Parameter 41	OFF
Parameter 42	OFF
Parameter 43	OFF
Parameter 44	OFF
Parameter 45	OFF
Parameter 46	OFF
Parameter 47	OFF
Parameter 48	OFF
Parameter 49	OFF
Parameter 50	OFF
Parameter 51	OFF
Parameter 52	OFF
Parameter 53	OFF
Parameter 54	OFF
Parameter 55	OFF

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DEVICE DEFINITION  
DEVICES

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VERSION: 5.5X  
UR SERIAL NUMBER: AABC08000458  
SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05  
DESCRIPTION: PACO B2  
TEXT COLOR  
ASSOCIATED DEVICE: (NONE)

FLEX STATES (continued from last page)

---

Parameter 56	OFF
Parameter 57	OFF
Parameter 58	OFF
Parameter 59	OFF
Parameter 60	OFF
Parameter 61	OFF
Parameter 62	OFF
Parameter 63	OFF
Parameter 64	OFF
Parameter 65	OFF
Parameter 66	OFF
Parameter 67	OFF
Parameter 68	OFF
Parameter 69	OFF
Parameter 70	OFF
Parameter 71	OFF
Parameter 72	OFF
Parameter 73	OFF
Parameter 74	OFF
Parameter 75	OFF
Parameter 76	OFF
Parameter 77	OFF
Parameter 78	OFF
Parameter 79	OFF
Parameter 80	OFF
Parameter 81	OFF
Parameter 82	OFF
Parameter 83	OFF
Parameter 84	OFF
Parameter 85	OFF
Parameter 86	OFF
Parameter 87	OFF
Parameter 88	OFF
Parameter 89	OFF
Parameter 90	OFF
Parameter 91	OFF
Parameter 92	OFF
Parameter 93	OFF
Parameter 94	OFF
Parameter 95	OFF
Parameter 96	OFF
Parameter 97	OFF
Parameter 98	OFF
Parameter 99	OFF
Parameter 100	OFF
Parameter 101	OFF
Parameter 102	OFF
Parameter 103	OFF
Parameter 104	OFF
Parameter 105	OFF
Parameter 106	OFF
Parameter 107	OFF
Parameter 108	OFF
Parameter 109	OFF
Parameter 110	OFF
Parameter 111	OFF
Parameter 112	OFF
Parameter 113	OFF
Parameter 114	OFF
Parameter 115	OFF
Parameter 116	OFF
Parameter 117	OFF
Parameter 118	OFF
Parameter 119	OFF
Parameter 120	OFF
Parameter 121	OFF
Parameter 122	OFF
Parameter 123	OFF
Parameter 124	OFF
Parameter 125	OFF
Parameter 126	OFF

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 DEVICE DEFINITION  
 DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000458  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05  
 DESCRIPTION: PACO B2  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

FLEX STATES (continued from last page)

Parameter 127	OFF
Parameter 128	OFF
Parameter 129	OFF
Parameter 130	OFF
Parameter 131	OFF
Parameter 132	OFF
Parameter 133	OFF
Parameter 134	OFF
Parameter 135	OFF
Parameter 136	OFF
Parameter 137	OFF
Parameter 138	OFF
Parameter 139	OFF
Parameter 140	OFF
Parameter 141	OFF
Parameter 142	OFF
Parameter 143	OFF
Parameter 144	OFF
Parameter 145	OFF
Parameter 146	OFF
Parameter 147	OFF
Parameter 148	OFF
Parameter 149	OFF
Parameter 150	OFF
Parameter 151	OFF
Parameter 152	OFF
Parameter 153	OFF
Parameter 154	OFF
Parameter 155	OFF
Parameter 156	OFF
Parameter 157	OFF
Parameter 158	OFF
Parameter 159	OFF
Parameter 160	OFF
Parameter 161	OFF
Parameter 162	OFF
Parameter 163	OFF
Parameter 164	OFF
Parameter 165	OFF
Parameter 166	OFF
Parameter 167	OFF
Parameter 168	OFF
Parameter 169	OFF
Parameter 170	OFF
Parameter 171	OFF
Parameter 172	OFF
Parameter 173	OFF
Parameter 174	OFF
Parameter 175	OFF
Parameter 176	OFF
Parameter 177	OFF
Parameter 178	OFF
Parameter 179	OFF
Parameter 180	OFF
Parameter 181	OFF
Parameter 182	OFF
Parameter 183	OFF
Parameter 184	OFF
Parameter 185	OFF
Parameter 186	OFF
Parameter 187	OFF
Parameter 188	OFF
Parameter 189	OFF
Parameter 190	OFF
Parameter 191	OFF
Parameter 192	OFF
Parameter 193	OFF
Parameter 194	OFF
Parameter 195	OFF
Parameter 196	OFF
Parameter 197	OFF

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DEVICE DEFINITION

DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
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 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05  
 DESCRIPTION: PACO B2  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

FLEX STATES (continued from last page)

Parameter 198	OFF
Parameter 199	OFF
Parameter 200	OFF
Parameter 201	OFF
Parameter 202	OFF
Parameter 203	OFF
Parameter 204	OFF
Parameter 205	OFF
Parameter 206	OFF
Parameter 207	OFF
Parameter 208	OFF
Parameter 209	OFF
Parameter 210	OFF
Parameter 211	OFF
Parameter 212	OFF
Parameter 213	OFF
Parameter 214	OFF
Parameter 215	OFF
Parameter 216	OFF
Parameter 217	OFF
Parameter 218	OFF
Parameter 219	OFF
Parameter 220	OFF
Parameter 221	OFF
Parameter 222	OFF
Parameter 223	OFF
Parameter 224	OFF
Parameter 225	OFF
Parameter 226	OFF
Parameter 227	OFF
Parameter 228	OFF
Parameter 229	OFF
Parameter 230	OFF
Parameter 231	OFF
Parameter 232	OFF
Parameter 233	OFF
Parameter 234	OFF
Parameter 235	OFF
Parameter 236	OFF
Parameter 237	OFF
Parameter 238	OFF
Parameter 239	OFF
Parameter 240	OFF
Parameter 241	OFF
Parameter 242	OFF
Parameter 243	OFF
Parameter 244	OFF
Parameter 245	OFF
Parameter 246	OFF
Parameter 247	OFF
Parameter 248	OFF
Parameter 249	OFF
Parameter 250	OFF
Parameter 251	OFF
Parameter 252	OFF
Parameter 253	OFF
Parameter 254	OFF
Parameter 255	OFF
Parameter 256	OFF

USER-DEFINABLE DISPLAYS

USER DISPLAY 1: Top Line	LINEA OVALLE 2
USER DISPLAY 1: Bottom Line	21-21N-67N-79
USER DISPLAY 1: Item 1	0
USER DISPLAY 1: Item 2	0
USER DISPLAY 1: Item 3	0
USER DISPLAY 1: Item 4	0
USER DISPLAY 1: Item 5	0
USER DISPLAY 2: Top Line	Vab::~
USER DISPLAY 2: Bottom Line	Ang::~
USER DISPLAY 2: Item 1	6671



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DEVICE DEFINITION

DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000458  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05  
 DESCRIPTION: PACO B2  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

USER-DEFINABLE DISPLAYS (continued from last page)

USER DISPLAY 2: Item 2	6679
USER DISPLAY 2: Item 3	0
USER DISPLAY 2: Item 4	0
USER DISPLAY 2: Item 5	0
USER DISPLAY 3: Top Line	Vbc::~
USER DISPLAY 3: Bottom Line	Ang::~
USER DISPLAY 3: Item 1	6673
USER DISPLAY 3: Item 2	6682
USER DISPLAY 3: Item 3	0
USER DISPLAY 3: Item 4	0
USER DISPLAY 3: Item 5	0
USER DISPLAY 4: Top Line	Vca::~
USER DISPLAY 4: Bottom Line	Ang::~
USER DISPLAY 4: Item 1	6675
USER DISPLAY 4: Item 2	6685
USER DISPLAY 4: Item 3	0
USER DISPLAY 4: Item 4	0
USER DISPLAY 4: Item 5	0
USER DISPLAY 5: Top Line	Ia::~
USER DISPLAY 5: Bottom Line	Ang::~
USER DISPLAY 5: Item 1	6152
USER DISPLAY 5: Item 2	6154
USER DISPLAY 5: Item 3	0
USER DISPLAY 5: Item 4	0
USER DISPLAY 5: Item 5	0
USER DISPLAY 6: Top Line	Ib::~
USER DISPLAY 6: Bottom Line	Ang::~
USER DISPLAY 6: Item 1	6155
USER DISPLAY 6: Item 2	6157
USER DISPLAY 6: Item 3	0
USER DISPLAY 6: Item 4	0
USER DISPLAY 6: Item 5	0
USER DISPLAY 7: Top Line	Ic::~
USER DISPLAY 7: Bottom Line	Ang::~
USER DISPLAY 7: Item 1	6158
USER DISPLAY 7: Item 2	6160
USER DISPLAY 7: Item 3	0
USER DISPLAY 7: Item 4	0
USER DISPLAY 7: Item 5	0
USER DISPLAY 8: Top Line	POT. ACT::~
USER DISPLAY 8: Bottom Line	POT. REC::~
USER DISPLAY 8: Item 1	7168
USER DISPLAY 8: Item 2	7176
USER DISPLAY 8: Item 3	0
USER DISPLAY 8: Item 4	0
USER DISPLAY 8: Item 5	0
USER DISPLAY 9: Top Line	LOC DE FALLA::~
USER DISPLAY 9: Bottom Line	
USER DISPLAY 9: Item 1	9061
USER DISPLAY 9: Item 2	0
USER DISPLAY 9: Item 3	0
USER DISPLAY 9: Item 4	0
USER DISPLAY 9: Item 5	0
USER DISPLAY 10: Top Line	~
USER DISPLAY 10: Bottom Line	
USER DISPLAY 10: Item 1	16800
USER DISPLAY 10: Item 2	0
USER DISPLAY 10: Item 3	0
USER DISPLAY 10: Item 4	0
USER DISPLAY 10: Item 5	0
USER DISPLAY 11: Top Line	
USER DISPLAY 11: Bottom Line	
USER DISPLAY 11: Item 1	0
USER DISPLAY 11: Item 2	0
USER DISPLAY 11: Item 3	0
USER DISPLAY 11: Item 4	0
USER DISPLAY 11: Item 5	0
USER DISPLAY 12: Top Line	
USER DISPLAY 12: Bottom Line	
USER DISPLAY 12: Item 1	0
USER DISPLAY 12: Item 2	0

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 VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B2\SE LMO BACKUP DEJADO PS2 PACO B02\_06082020\

DEVICE DEFINITION

DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000458  
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 DESCRIPTION: PACO B2  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

USER-DEFINABLE DISPLAYS (continued from last page)

USER DISPLAY 12: Item 3	0
USER DISPLAY 12: Item 4	0
USER DISPLAY 12: Item 5	0
USER DISPLAY 13: Top Line	
USER DISPLAY 13: Bottom Line	
USER DISPLAY 13: Item 1	0
USER DISPLAY 13: Item 2	0
USER DISPLAY 13: Item 3	0
USER DISPLAY 13: Item 4	0
USER DISPLAY 13: Item 5	0
USER DISPLAY 14: Top Line	
USER DISPLAY 14: Bottom Line	
USER DISPLAY 14: Item 1	0
USER DISPLAY 14: Item 2	0
USER DISPLAY 14: Item 3	0
USER DISPLAY 14: Item 4	0
USER DISPLAY 14: Item 5	0
USER DISPLAY 15: Top Line	
USER DISPLAY 15: Bottom Line	
USER DISPLAY 15: Item 1	0
USER DISPLAY 15: Item 2	0
USER DISPLAY 15: Item 3	0
USER DISPLAY 15: Item 4	0
USER DISPLAY 15: Item 5	0
USER DISPLAY 16: Top Line	
USER DISPLAY 16: Bottom Line	
USER DISPLAY 16: Item 1	0
USER DISPLAY 16: Item 2	0
USER DISPLAY 16: Item 3	0
USER DISPLAY 16: Item 4	0
USER DISPLAY 16: Item 5	0
Invoke and Scroll	ON

INSTALLATION

Relay Name	21-67N-79
------------	-----------

SYSTEM SETUP

AC INPUTS

CURRENT

CT F1: Phase CT Primary	150 A
CT F1: Phase CT Secondary	5 A
CT F1: Ground CT Primary	150 A
CT F1: Ground CT Secondary	5 A

VOLTAGE

VT F5: Phase VT Connection	Wye
VT F5: Phase VT Secondary	66.4 V
VT F5: Phase VT Ratio	600.00 :1
VT F5: Auxiliary VT Connection	Vag
VT F5: Auxiliary VT Secondary	66.4 V
VT F5: Auxiliary VT Ratio	1.00 :1

POWER SYSTEM

Nominal Frequency	50 Hz
Phase Rotation	ABC
Frequency And Phase Reference	SRC 1 (SRC 1)
Frequency Tracking Function	Enabled

SIGNAL SOURCES

SOURCE 1: Name	SRC 1
SOURCE 1: Phase CT	F1
SOURCE 1: Ground CT	F1
SOURCE 1: Phase VT	F5
SOURCE 1: Auxiliary VT	None
SOURCE 2: Name	SRC 2
SOURCE 2: Phase CT	None
SOURCE 2: Ground CT	None
SOURCE 2: Phase VT	None
SOURCE 2: Auxiliary VT	None

BREAKERS

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## DEVICE DEFINITION

## DEVICES

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 DESCRIPTION: PACO B2  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

BREAKERS (continued from last page)

Breaker 1 Function	Enabled
Breaker 1 Push Button Control	OFF
Breaker 1 Name	52B2
Breaker 1 Mode	3-Pole
Breaker 1 Open	OFF
Breaker 1 Block Open	OFF
Breaker 1 Close	OFF
Breaker 1 Block Close	OFF
Breaker 1 Phase A/3-Pole Closed	52B2 CERRADO On(H1a)
Breaker 1 Phase A/3-Pole Opened	52B2 CERRADO Off(H1a)
Breaker 1 Phase B Closed	OFF
Breaker 1 Phase B Opened	OFF
Breaker 1 Phase C Closed	OFF
Breaker 1 Phase C Opened	OFF
Breaker 1 Toperate	0.070 s
Breaker 1 External Alarm	OFF
Breaker 1 Alarm Delay	0.000 s
Breaker 1 Manual Close Recal Time	0.000 s
Breaker 1 Out Of Service	OFF
Breaker 1 Events	Enabled
Breaker 2 Function	Disabled
Breaker 2 Push Button Control	OFF
Breaker 2 Name	Bkr 2
Breaker 2 Mode	3-Pole
Breaker 2 Open	OFF
Breaker 2 Block Open	OFF
Breaker 2 Close	OFF
Breaker 2 Block Close	OFF
Breaker 2 Phase A/3-Pole Closed	OFF
Breaker 2 Phase A/3-Pole Opened	OFF
Breaker 2 Phase B Closed	OFF
Breaker 2 Phase B Opened	OFF
Breaker 2 Phase C Closed	OFF
Breaker 2 Phase C Opened	OFF
Breaker 2 Toperate	0.070 s
Breaker 2 External Alarm	OFF
Breaker 2 Alarm Delay	0.000 s
Breaker 2 Manual Close Recal Time	0.000 s
Breaker 2 Out Of Service	OFF
Breaker 2 Events	Disabled

SWITCHES

Switch 1 Function	Disabled
Switch 1 Name	SW 1
Switch 1 Mode	3-Pole
Switch 1 Open	OFF
Switch 1 Block Open	OFF
Switch 1 Close	OFF
Switch 1 Block Close	OFF
Switch 1 Phase A/3 Pole Closed	OFF
Switch 1 Phase A/3 Pole Opened	OFF
Switch 1 Phase B Closed	OFF
Switch 1 Phase B Opened	OFF
Switch 1 Phase C Closed	OFF
Switch 1 Phase C Opened	OFF
Switch 1 Toperate	0.070 s
Switch 1 Alarm Delay	0.000 s
Switch 1 Events	Disabled
Switch 2 Function	Disabled
Switch 2 Name	SW 2
Switch 2 Mode	3-Pole
Switch 2 Open	OFF
Switch 2 Block Open	OFF
Switch 2 Close	OFF
Switch 2 Block Close	OFF
Switch 2 Phase A/3 Pole Closed	OFF
Switch 2 Phase A/3 Pole Opened	OFF
Switch 2 Phase B Closed	OFF
Switch 2 Phase B Opened	OFF
Switch 2 Phase C Closed	OFF
Switch 2 Phase C Opened	OFF

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## DEVICE DEFINITION

## DEVICES

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 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05  
 DESCRIPTION: PACO B2  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

## SWITCHES (continued from last page)

Switch 2 Operate	0.070 s
Switch 2 Alarm Delay	0.000 s
Switch 2 Events	Disabled
Switch 3 Function	Disabled
Switch 3 Name	SW 3
Switch 3 Mode	3-Pole
Switch 3 Open	OFF
Switch 3 Block Open	OFF
Switch 3 Close	OFF
Switch 3 Block Close	OFF
Switch 3 Phase A/3 Pole Closed	OFF
Switch 3 Phase A/3 Pole Opened	OFF
Switch 3 Phase B Closed	OFF
Switch 3 Phase B Opened	OFF
Switch 3 Phase C Closed	OFF
Switch 3 Phase C Opened	OFF
Switch 3 Operate	0.070 s
Switch 3 Alarm Delay	0.000 s
Switch 3 Events	Disabled
Switch 4 Function	Disabled
Switch 4 Name	SW 4
Switch 4 Mode	3-Pole
Switch 4 Open	OFF
Switch 4 Block Open	OFF
Switch 4 Close	OFF
Switch 4 Block Close	OFF
Switch 4 Phase A/3 Pole Closed	OFF
Switch 4 Phase A/3 Pole Opened	OFF
Switch 4 Phase B Closed	OFF
Switch 4 Phase B Opened	OFF
Switch 4 Phase C Closed	OFF
Switch 4 Phase C Opened	OFF
Switch 4 Operate	0.070 s
Switch 4 Alarm Delay	0.000 s
Switch 4 Events	Disabled
Switch 5 Function	Disabled
Switch 5 Name	SW 5
Switch 5 Mode	3-Pole
Switch 5 Open	OFF
Switch 5 Block Open	OFF
Switch 5 Close	OFF
Switch 5 Block Close	OFF
Switch 5 Phase A/3 Pole Closed	OFF
Switch 5 Phase A/3 Pole Opened	OFF
Switch 5 Phase B Closed	OFF
Switch 5 Phase B Opened	OFF
Switch 5 Phase C Closed	OFF
Switch 5 Phase C Opened	OFF
Switch 5 Operate	0.070 s
Switch 5 Alarm Delay	0.000 s
Switch 5 Events	Disabled
Switch 6 Function	Disabled
Switch 6 Name	SW 6
Switch 6 Mode	3-Pole
Switch 6 Open	OFF
Switch 6 Block Open	OFF
Switch 6 Close	OFF
Switch 6 Block Close	OFF
Switch 6 Phase A/3 Pole Closed	OFF
Switch 6 Phase A/3 Pole Opened	OFF
Switch 6 Phase B Closed	OFF
Switch 6 Phase B Opened	OFF
Switch 6 Phase C Closed	OFF
Switch 6 Phase C Opened	OFF
Switch 6 Operate	0.070 s
Switch 6 Alarm Delay	0.000 s
Switch 6 Events	Disabled
Switch 7 Function	Disabled
Switch 7 Name	SW 7
Switch 7 Mode	3-Pole
Switch 7 Open	OFF

SE LMO BACKUP DEJADO PS2 PACO B02\_06082020.URS  
 C:\USERS\MFIGUEROA\DOCUMENTS\DOCUMENTOS PC ANTERIOR\OMICRON 2.0\VERIFICACIONES\SE LOS MOLLES\  
 VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B2\SE LMO BACKUP DEJADO PS2 PACO B02\_06082020\

DEVICE DEFINITION

DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000458  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05  
 DESCRIPTION: PACO B2  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

SWITCHES (continued from last page)

Switch 7 Block Open	OFF
Switch 7 Close	OFF
Switch 7 Block Close	OFF
Switch 7 Phase A/3 Pole Closed	OFF
Switch 7 Phase A/3 Pole Opened	OFF
Switch 7 Phase B Closed	OFF
Switch 7 Phase B Opened	OFF
Switch 7 Phase C Closed	OFF
Switch 7 Phase C Opened	OFF
Switch 7 Toperate	0.070 s
Switch 7 Alarm Delay	0.000 s
Switch 7 Events	Disabled
Switch 8 Function	Disabled
Switch 8 Name	SW 8
Switch 8 Mode	3-Pole
Switch 8 Open	OFF
Switch 8 Block Open	OFF
Switch 8 Close	OFF
Switch 8 Block Close	OFF
Switch 8 Phase A/3 Pole Closed	OFF
Switch 8 Phase A/3 Pole Opened	OFF
Switch 8 Phase B Closed	OFF
Switch 8 Phase B Opened	OFF
Switch 8 Phase C Closed	OFF
Switch 8 Phase C Opened	OFF
Switch 8 Toperate	0.070 s
Switch 8 Alarm Delay	0.000 s
Switch 8 Events	Disabled

FLEXCURVES

FLEXCURVE A

0.00 x PKP	0 ms
0.05 x PKP	0 ms
0.10 x PKP	0 ms
0.15 x PKP	0 ms
0.20 x PKP	0 ms
0.25 x PKP	0 ms
0.30 x PKP	0 ms
0.35 x PKP	0 ms
0.40 x PKP	0 ms
0.45 x PKP	0 ms
0.48 x PKP	0 ms
0.50 x PKP	0 ms
0.52 x PKP	0 ms
0.54 x PKP	0 ms
0.56 x PKP	0 ms
0.58 x PKP	0 ms
0.60 x PKP	0 ms
0.62 x PKP	0 ms
0.64 x PKP	0 ms
0.66 x PKP	0 ms
0.68 x PKP	0 ms
0.70 x PKP	0 ms
0.72 x PKP	0 ms
0.74 x PKP	0 ms
0.76 x PKP	0 ms
0.78 x PKP	0 ms
0.80 x PKP	0 ms
0.82 x PKP	0 ms
0.84 x PKP	0 ms
0.86 x PKP	0 ms
0.88 x PKP	0 ms
0.90 x PKP	0 ms
0.91 x PKP	0 ms
0.92 x PKP	0 ms
0.93 x PKP	0 ms
0.94 x PKP	0 ms
0.95 x PKP	0 ms
0.96 x PKP	0 ms
0.97 x PKP	0 ms
0.98 x PKP	0 ms

SE LMO BACKUP DEJADO PS2 PACO B02\_06082020.URS  
C:\USERS\MFIGUEROA\DOCUMENTS\DOCUMENTOS PC ANTERIOR\OMICRON 2.0\VERIFICACIONES\SE LOS MOLLES\  
VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B2\SE LMO BACKUP DEJADO PS2 PACO B02\_06082020\

## DEVICE DEFINITION

## DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
VERSION: 5.5X  
UR SERIAL NUMBER: AABC08000458  
SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05  
DESCRIPTION: PACO B2  
TEXT COLOR  
ASSOCIATED DEVICE: (NONE)

## FLEXCURVE A (continued from last page)

1.03 x PKP	0 ms
1.05 x PKP	0 ms
1.10 x PKP	0 ms
1.20 x PKP	0 ms
1.30 x PKP	0 ms
1.40 x PKP	0 ms
1.50 x PKP	0 ms
1.60 x PKP	0 ms
1.70 x PKP	0 ms
1.80 x PKP	0 ms
1.90 x PKP	0 ms
2.00 x PKP	0 ms
2.10 x PKP	0 ms
2.20 x PKP	0 ms
2.30 x PKP	0 ms
2.40 x PKP	0 ms
2.50 x PKP	0 ms
2.60 x PKP	0 ms
2.70 x PKP	0 ms
2.80 x PKP	0 ms
2.90 x PKP	0 ms
3.00 x PKP	0 ms
3.10 x PKP	0 ms
3.20 x PKP	0 ms
3.30 x PKP	0 ms
3.40 x PKP	0 ms
3.50 x PKP	0 ms
3.60 x PKP	0 ms
3.70 x PKP	0 ms
3.80 x PKP	0 ms
3.90 x PKP	0 ms
4.00 x PKP	0 ms
4.10 x PKP	0 ms
4.20 x PKP	0 ms
4.30 x PKP	0 ms
4.40 x PKP	0 ms
4.50 x PKP	0 ms
4.60 x PKP	0 ms
4.70 x PKP	0 ms
4.80 x PKP	0 ms
4.90 x PKP	0 ms
5.00 x PKP	0 ms
5.10 x PKP	0 ms
5.20 x PKP	0 ms
5.30 x PKP	0 ms
5.40 x PKP	0 ms
5.50 x PKP	0 ms
5.60 x PKP	0 ms
5.70 x PKP	0 ms
5.80 x PKP	0 ms
5.90 x PKP	0 ms
6.00 x PKP	0 ms
6.50 x PKP	0 ms
7.00 x PKP	0 ms
7.50 x PKP	0 ms
8.00 x PKP	0 ms
8.50 x PKP	0 ms
9.00 x PKP	0 ms
9.50 x PKP	0 ms
10.00 x PKP	0 ms
10.50 x PKP	0 ms
11.00 x PKP	0 ms
11.50 x PKP	0 ms
12.00 x PKP	0 ms
12.50 x PKP	0 ms
13.00 x PKP	0 ms
13.50 x PKP	0 ms
14.00 x PKP	0 ms
14.50 x PKP	0 ms
15.00 x PKP	0 ms
15.50 x PKP	0 ms

SE LMO BACKUP DEJADO PS2 PACO B02\_06082020.URS  
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VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B2\SE LMO BACKUP DEJADO PS2 PACO B02\_06082020\  
DEVICE DEFINITION

DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
VERSION: 5.5X  
UR SERIAL NUMBER: AABC08000458  
SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05  
DESCRIPTION: PACO B2  
TEXT COLOR  
ASSOCIATED DEVICE: (NONE)

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FLEXCURVE A (continued from last page)

16.00 x PKP	0 ms
16.50 x PKP	0 ms
17.00 x PKP	0 ms
17.50 x PKP	0 ms
18.00 x PKP	0 ms
18.50 x PKP	0 ms
19.00 x PKP	0 ms
19.50 x PKP	0 ms
20.00 x PKP	0 ms

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FLEXCURVE B

0.00 x PKP	0 ms
0.05 x PKP	0 ms
0.10 x PKP	0 ms
0.15 x PKP	0 ms
0.20 x PKP	0 ms
0.25 x PKP	0 ms
0.30 x PKP	0 ms
0.35 x PKP	0 ms
0.40 x PKP	0 ms
0.45 x PKP	0 ms
0.48 x PKP	0 ms
0.50 x PKP	0 ms
0.52 x PKP	0 ms
0.54 x PKP	0 ms
0.56 x PKP	0 ms
0.58 x PKP	0 ms
0.60 x PKP	0 ms
0.62 x PKP	0 ms
0.64 x PKP	0 ms
0.66 x PKP	0 ms
0.68 x PKP	0 ms
0.70 x PKP	0 ms
0.72 x PKP	0 ms
0.74 x PKP	0 ms
0.76 x PKP	0 ms
0.78 x PKP	0 ms
0.80 x PKP	0 ms
0.82 x PKP	0 ms
0.84 x PKP	0 ms
0.86 x PKP	0 ms
0.88 x PKP	0 ms
0.90 x PKP	0 ms
0.91 x PKP	0 ms
0.92 x PKP	0 ms
0.93 x PKP	0 ms
0.94 x PKP	0 ms
0.95 x PKP	0 ms
0.96 x PKP	0 ms
0.97 x PKP	0 ms
0.98 x PKP	0 ms
1.03 x PKP	0 ms
1.05 x PKP	0 ms
1.10 x PKP	0 ms
1.20 x PKP	0 ms
1.30 x PKP	0 ms
1.40 x PKP	0 ms
1.50 x PKP	0 ms
1.60 x PKP	0 ms
1.70 x PKP	0 ms
1.80 x PKP	0 ms
1.90 x PKP	0 ms
2.00 x PKP	0 ms
2.10 x PKP	0 ms
2.20 x PKP	0 ms
2.30 x PKP	0 ms
2.40 x PKP	0 ms
2.50 x PKP	0 ms
2.60 x PKP	0 ms
2.70 x PKP	0 ms
2.80 x PKP	0 ms

SE LMO BACKUP DEJADO PS2 PACO B02\_06082020.URS  
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 VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B2\SE LMO BACKUP DEJADO PS2 PACO B02\_06082020\  
 DEVICE DEFINITION  
 DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000458  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05  
 DESCRIPTION: PACO B2  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

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FLEXCURVE B (continued from last page)

2.90 x PKP	0 ms
3.00 x PKP	0 ms
3.10 x PKP	0 ms
3.20 x PKP	0 ms
3.30 x PKP	0 ms
3.40 x PKP	0 ms
3.50 x PKP	0 ms
3.60 x PKP	0 ms
3.70 x PKP	0 ms
3.80 x PKP	0 ms
3.90 x PKP	0 ms
4.00 x PKP	0 ms
4.10 x PKP	0 ms
4.20 x PKP	0 ms
4.30 x PKP	0 ms
4.40 x PKP	0 ms
4.50 x PKP	0 ms
4.60 x PKP	0 ms
4.70 x PKP	0 ms
4.80 x PKP	0 ms
4.90 x PKP	0 ms
5.00 x PKP	0 ms
5.10 x PKP	0 ms
5.20 x PKP	0 ms
5.30 x PKP	0 ms
5.40 x PKP	0 ms
5.50 x PKP	0 ms
5.60 x PKP	0 ms
5.70 x PKP	0 ms
5.80 x PKP	0 ms
5.90 x PKP	0 ms
6.00 x PKP	0 ms
6.50 x PKP	0 ms
7.00 x PKP	0 ms
7.50 x PKP	0 ms
8.00 x PKP	0 ms
8.50 x PKP	0 ms
9.00 x PKP	0 ms
9.50 x PKP	0 ms
10.00 x PKP	0 ms
10.50 x PKP	0 ms
11.00 x PKP	0 ms
11.50 x PKP	0 ms
12.00 x PKP	0 ms
12.50 x PKP	0 ms
13.00 x PKP	0 ms
13.50 x PKP	0 ms
14.00 x PKP	0 ms
14.50 x PKP	0 ms
15.00 x PKP	0 ms
15.50 x PKP	0 ms
16.00 x PKP	0 ms
16.50 x PKP	0 ms
17.00 x PKP	0 ms
17.50 x PKP	0 ms
18.00 x PKP	0 ms
18.50 x PKP	0 ms
19.00 x PKP	0 ms
19.50 x PKP	0 ms
20.00 x PKP	0 ms

---

FLEXCURVE C

0.00 x PKP	0 ms
0.05 x PKP	0 ms
0.10 x PKP	0 ms
0.15 x PKP	0 ms
0.20 x PKP	0 ms
0.25 x PKP	0 ms
0.30 x PKP	0 ms
0.35 x PKP	0 ms
0.40 x PKP	0 ms



SE LMO BACKUP DEJADO PS2 PACO B02\_06082020.URS  
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VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B2\SE LMO BACKUP DEJADO PS2 PACO B02\_06082020\  
DEVICE DEFINITION  
DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
VERSION: 5.5X  
UR SERIAL NUMBER: AABC08000458  
SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05  
DESCRIPTION: PACO B2  
TEXT COLOR  
ASSOCIATED DEVICE: (NONE)

---

FLEXCURVE C (continued from last page)

0.45 x PKP	0 ms
0.48 x PKP	0 ms
0.50 x PKP	0 ms
0.52 x PKP	0 ms
0.54 x PKP	0 ms
0.56 x PKP	0 ms
0.58 x PKP	0 ms
0.60 x PKP	0 ms
0.62 x PKP	0 ms
0.64 x PKP	0 ms
0.66 x PKP	0 ms
0.68 x PKP	0 ms
0.70 x PKP	0 ms
0.72 x PKP	0 ms
0.74 x PKP	0 ms
0.76 x PKP	0 ms
0.78 x PKP	0 ms
0.80 x PKP	0 ms
0.82 x PKP	0 ms
0.84 x PKP	0 ms
0.86 x PKP	0 ms
0.88 x PKP	0 ms
0.90 x PKP	0 ms
0.91 x PKP	0 ms
0.92 x PKP	0 ms
0.93 x PKP	0 ms
0.94 x PKP	0 ms
0.95 x PKP	0 ms
0.96 x PKP	0 ms
0.97 x PKP	0 ms
0.98 x PKP	0 ms
1.03 x PKP	0 ms
1.05 x PKP	0 ms
1.10 x PKP	0 ms
1.20 x PKP	0 ms
1.30 x PKP	0 ms
1.40 x PKP	0 ms
1.50 x PKP	0 ms
1.60 x PKP	0 ms
1.70 x PKP	0 ms
1.80 x PKP	0 ms
1.90 x PKP	0 ms
2.00 x PKP	0 ms
2.10 x PKP	0 ms
2.20 x PKP	0 ms
2.30 x PKP	0 ms
2.40 x PKP	0 ms
2.50 x PKP	0 ms
2.60 x PKP	0 ms
2.70 x PKP	0 ms
2.80 x PKP	0 ms
2.90 x PKP	0 ms
3.00 x PKP	0 ms
3.10 x PKP	0 ms
3.20 x PKP	0 ms
3.30 x PKP	0 ms
3.40 x PKP	0 ms
3.50 x PKP	0 ms
3.60 x PKP	0 ms
3.70 x PKP	0 ms
3.80 x PKP	0 ms
3.90 x PKP	0 ms
4.00 x PKP	0 ms
4.10 x PKP	0 ms
4.20 x PKP	0 ms
4.30 x PKP	0 ms
4.40 x PKP	0 ms
4.50 x PKP	0 ms
4.60 x PKP	0 ms
4.70 x PKP	0 ms
4.80 x PKP	0 ms

SE LMO BACKUP DEJADO PS2 PACO B02\_06082020.URS  
C:\USERS\MFIGUEROA\DOCUMENTS\DOCUMENTOS PC ANTERIOR\OMICRON 2.0\VERIFICACIONES\SE LOS MOLLES\  
VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B2\SE LMO BACKUP DEJADO PS2 PACO B02\_06082020\

## DEVICE DEFINITION

## DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
VERSION: 5.5X  
UR SERIAL NUMBER: AABC08000458  
SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05  
DESCRIPTION: PACO B2  
TEXT COLOR  
ASSOCIATED DEVICE: (NONE)

## FLEXCURVE C (continued from last page)

4.90 x PKP	0 ms
5.00 x PKP	0 ms
5.10 x PKP	0 ms
5.20 x PKP	0 ms
5.30 x PKP	0 ms
5.40 x PKP	0 ms
5.50 x PKP	0 ms
5.60 x PKP	0 ms
5.70 x PKP	0 ms
5.80 x PKP	0 ms
5.90 x PKP	0 ms
6.00 x PKP	0 ms
6.50 x PKP	0 ms
7.00 x PKP	0 ms
7.50 x PKP	0 ms
8.00 x PKP	0 ms
8.50 x PKP	0 ms
9.00 x PKP	0 ms
9.50 x PKP	0 ms
10.00 x PKP	0 ms
10.50 x PKP	0 ms
11.00 x PKP	0 ms
11.50 x PKP	0 ms
12.00 x PKP	0 ms
12.50 x PKP	0 ms
13.00 x PKP	0 ms
13.50 x PKP	0 ms
14.00 x PKP	0 ms
14.50 x PKP	0 ms
15.00 x PKP	0 ms
15.50 x PKP	0 ms
16.00 x PKP	0 ms
16.50 x PKP	0 ms
17.00 x PKP	0 ms
17.50 x PKP	0 ms
18.00 x PKP	0 ms
18.50 x PKP	0 ms
19.00 x PKP	0 ms
19.50 x PKP	0 ms
20.00 x PKP	0 ms

## FLEXCURVE D

0.00 x PKP	0 ms
0.05 x PKP	0 ms
0.10 x PKP	0 ms
0.15 x PKP	0 ms
0.20 x PKP	0 ms
0.25 x PKP	0 ms
0.30 x PKP	0 ms
0.35 x PKP	0 ms
0.40 x PKP	0 ms
0.45 x PKP	0 ms
0.48 x PKP	0 ms
0.50 x PKP	0 ms
0.52 x PKP	0 ms
0.54 x PKP	0 ms
0.56 x PKP	0 ms
0.58 x PKP	0 ms
0.60 x PKP	0 ms
0.62 x PKP	0 ms
0.64 x PKP	0 ms
0.66 x PKP	0 ms
0.68 x PKP	0 ms
0.70 x PKP	0 ms
0.72 x PKP	0 ms
0.74 x PKP	0 ms
0.76 x PKP	0 ms
0.78 x PKP	0 ms
0.80 x PKP	0 ms
0.82 x PKP	0 ms
0.84 x PKP	0 ms

SE LMO BACKUP DEJADO PS2 PACO B02\_06082020.URS  
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 VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B2\SE LMO BACKUP DEJADO PS2 PACO B02\_06082020\  
 DEVICE DEFINITION  
 DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000458  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05  
 DESCRIPTION: PACO B2  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

FLEXCURVE D (continued from last page)

0.86 x PKP	0 ms
0.88 x PKP	0 ms
0.90 x PKP	0 ms
0.91 x PKP	0 ms
0.92 x PKP	0 ms
0.93 x PKP	0 ms
0.94 x PKP	0 ms
0.95 x PKP	0 ms
0.96 x PKP	0 ms
0.97 x PKP	0 ms
0.98 x PKP	0 ms
1.03 x PKP	0 ms
1.05 x PKP	0 ms
1.10 x PKP	0 ms
1.20 x PKP	0 ms
1.30 x PKP	0 ms
1.40 x PKP	0 ms
1.50 x PKP	0 ms
1.60 x PKP	0 ms
1.70 x PKP	0 ms
1.80 x PKP	0 ms
1.90 x PKP	0 ms
2.00 x PKP	0 ms
2.10 x PKP	0 ms
2.20 x PKP	0 ms
2.30 x PKP	0 ms
2.40 x PKP	0 ms
2.50 x PKP	0 ms
2.60 x PKP	0 ms
2.70 x PKP	0 ms
2.80 x PKP	0 ms
2.90 x PKP	0 ms
3.00 x PKP	0 ms
3.10 x PKP	0 ms
3.20 x PKP	0 ms
3.30 x PKP	0 ms
3.40 x PKP	0 ms
3.50 x PKP	0 ms
3.60 x PKP	0 ms
3.70 x PKP	0 ms
3.80 x PKP	0 ms
3.90 x PKP	0 ms
4.00 x PKP	0 ms
4.10 x PKP	0 ms
4.20 x PKP	0 ms
4.30 x PKP	0 ms
4.40 x PKP	0 ms
4.50 x PKP	0 ms
4.60 x PKP	0 ms
4.70 x PKP	0 ms
4.80 x PKP	0 ms
4.90 x PKP	0 ms
5.00 x PKP	0 ms
5.10 x PKP	0 ms
5.20 x PKP	0 ms
5.30 x PKP	0 ms
5.40 x PKP	0 ms
5.50 x PKP	0 ms
5.60 x PKP	0 ms
5.70 x PKP	0 ms
5.80 x PKP	0 ms
5.90 x PKP	0 ms
6.00 x PKP	0 ms
6.50 x PKP	0 ms
7.00 x PKP	0 ms
7.50 x PKP	0 ms
8.00 x PKP	0 ms
8.50 x PKP	0 ms
9.00 x PKP	0 ms
9.50 x PKP	0 ms
10.00 x PKP	0 ms

SE LMO BACKUP DEJADO PS2 PACO B02\_06082020.URS  
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 VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B2\SE LMO BACKUP DEJADO PS2 PACO B02\_06082020\

## DEVICE DEFINITION

## DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000458  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05  
 DESCRIPTION: PACO B2  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

## FLEXCURVE D (continued from last page)

10.50 x PKP	0 ms
11.00 x PKP	0 ms
11.50 x PKP	0 ms
12.00 x PKP	0 ms
12.50 x PKP	0 ms
13.00 x PKP	0 ms
13.50 x PKP	0 ms
14.00 x PKP	0 ms
14.50 x PKP	0 ms
15.00 x PKP	0 ms
15.50 x PKP	0 ms
16.00 x PKP	0 ms
16.50 x PKP	0 ms
17.00 x PKP	0 ms
17.50 x PKP	0 ms
18.00 x PKP	0 ms
18.50 x PKP	0 ms
19.00 x PKP	0 ms
19.50 x PKP	0 ms
20.00 x PKP	0 ms

## FLEXLOGIC

## FLEXLOGIC EQUATION EDITOR

FlexLogic Entry 1	SRC1 VT FUSE FAIL OP
FlexLogic Entry 2	MCB BARRA On(H3c)
FlexLogic Entry 3	OR(2)
FlexLogic Entry 4	= FALLA POT (VO1)
FlexLogic Entry 5	FALLA POT On (VO1)
FlexLogic Entry 6	NOT
FlexLogic Entry 7	= POT OK (VO5)
FlexLogic Entry 8	RESORTE DESC Off(H1c)
FlexLogic Entry 9	BLOQUEO SF6 Off(H2c)
FlexLogic Entry 10	SUP 79 On(H4a)
FlexLogic Entry 11	79 HAB On(H2a)
FlexLogic Entry 12	POT OK On (VO5)
FlexLogic Entry 13	AND(5)
FlexLogic Entry 14	= 79 OK (VO2)
FlexLogic Entry 15	PH DIST Z1 OP
FlexLogic Entry 16	PH DIST Z2 OP
FlexLogic Entry 17	PH DIST Z3 OP
FlexLogic Entry 18	GND DIST Z1 OP
FlexLogic Entry 19	GND DIST Z2 OP
FlexLogic Entry 20	GND DIST Z3 OP
FlexLogic Entry 21	NEUTRAL TOC1 OP
FlexLogic Entry 22	NEUTRAL IOC1 OP
FlexLogic Entry 23	OR(8)
FlexLogic Entry 24	= FALLAS ZONAS (VO3)
FlexLogic Entry 25	GND DIST Z1 OP A
FlexLogic Entry 26	GND DIST Z1 OP B
FlexLogic Entry 27	GND DIST Z1 OP C
FlexLogic Entry 28	OR(3)
FlexLogic Entry 29	= INICIO79 (VO6)
FlexLogic Entry 30	RESORTE DESC On(H1c)
FlexLogic Entry 31	TIMER 1
FlexLogic Entry 32	= AL. RES. DES (VO4)
FlexLogic Entry 33	FALLA POT On (VO1)
FlexLogic Entry 34	AL. RES. DES On (VO4)
FlexLogic Entry 35	79 HAB Off(H2a)
FlexLogic Entry 36	BLOQUEO SF6 On(H2c)
FlexLogic Entry 37	SUP 79 Off(H4a)
FlexLogic Entry 38	AND(5)
FlexLogic Entry 39	= BLOQUEO79 (VO7)
FlexLogic Entry 40	P 8MW (FE 1) OP
FlexLogic Entry 41	52B2 CERRADO On(H1a)
FlexLogic Entry 42	AND(2)
FlexLogic Entry 43	= SUP79OK (VO8)
FlexLogic Entry 44	PH DIST Z1 OP
FlexLogic Entry 45	GND DIST Z1 OP
FlexLogic Entry 46	OR(2)
FlexLogic Entry 47	= AL ZONA1 (VO9)
FlexLogic Entry 48	PH DIST Z2 OP

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DEVICE DEFINITION

DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
VERSION: 5.5X  
UR SERIAL NUMBER: AABC08000458  
SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05  
DESCRIPTION: PACO B2  
TEXT COLOR  
ASSOCIATED DEVICE: (NONE)

FLEXLOGIC EQUATION EDITOR (continued from last page)

FlexLogic Entry 49	GND DIST Z2 OP
FlexLogic Entry 50	OR(2)
FlexLogic Entry 51	= AL ZONA2 (VO10)
FlexLogic Entry 52	PH DIST Z3 OP
FlexLogic Entry 53	GND DIST Z3 OP
FlexLogic Entry 54	OR(2)
FlexLogic Entry 55	= AL ZONA 3 (VO13)
FlexLogic Entry 56	END
FlexLogic Entry 57	END
FlexLogic Entry 58	END
FlexLogic Entry 59	END
FlexLogic Entry 60	END
FlexLogic Entry 61	END
FlexLogic Entry 62	END
FlexLogic Entry 63	END
FlexLogic Entry 64	END
FlexLogic Entry 65	END
FlexLogic Entry 66	END
FlexLogic Entry 67	END
FlexLogic Entry 68	END
FlexLogic Entry 69	END
FlexLogic Entry 70	END
FlexLogic Entry 71	END
FlexLogic Entry 72	END
FlexLogic Entry 73	END
FlexLogic Entry 74	END
FlexLogic Entry 75	END
FlexLogic Entry 76	END
FlexLogic Entry 77	END
FlexLogic Entry 78	END
FlexLogic Entry 79	END
FlexLogic Entry 80	END
FlexLogic Entry 81	END
FlexLogic Entry 82	END
FlexLogic Entry 83	END
FlexLogic Entry 84	END
FlexLogic Entry 85	END
FlexLogic Entry 86	END
FlexLogic Entry 87	END
FlexLogic Entry 88	END
FlexLogic Entry 89	END
FlexLogic Entry 90	END
FlexLogic Entry 91	END
FlexLogic Entry 92	END
FlexLogic Entry 93	END
FlexLogic Entry 94	END
FlexLogic Entry 95	END
FlexLogic Entry 96	END
FlexLogic Entry 97	END
FlexLogic Entry 98	END
FlexLogic Entry 99	END
FlexLogic Entry 100	END
FlexLogic Entry 101	END
FlexLogic Entry 102	END
FlexLogic Entry 103	END
FlexLogic Entry 104	END
FlexLogic Entry 105	END
FlexLogic Entry 106	END
FlexLogic Entry 107	END
FlexLogic Entry 108	END
FlexLogic Entry 109	END
FlexLogic Entry 110	END
FlexLogic Entry 111	END
FlexLogic Entry 112	END
FlexLogic Entry 113	END
FlexLogic Entry 114	END
FlexLogic Entry 115	END
FlexLogic Entry 116	END
FlexLogic Entry 117	END
FlexLogic Entry 118	END
FlexLogic Entry 119	END

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VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B2\SE LMO BACKUP DEJADO PS2 PACO B02\_06082020\  
DEVICE DEFINITION  
DEVICES  
ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
VERSION: 5.5X  
UR SERIAL NUMBER: AABC08000458  
SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05  
DESCRIPTION: PACO B2  
TEXT COLOR  
ASSOCIATED DEVICE: (NONE)

---

FLEXLOGIC EQUATION EDITOR (continued from last page)

FlexLogic Entry 120	END
FlexLogic Entry 121	END
FlexLogic Entry 122	END
FlexLogic Entry 123	END
FlexLogic Entry 124	END
FlexLogic Entry 125	END
FlexLogic Entry 126	END
FlexLogic Entry 127	END
FlexLogic Entry 128	END
FlexLogic Entry 129	END
FlexLogic Entry 130	END
FlexLogic Entry 131	END
FlexLogic Entry 132	END
FlexLogic Entry 133	END
FlexLogic Entry 134	END
FlexLogic Entry 135	END
FlexLogic Entry 136	END
FlexLogic Entry 137	END
FlexLogic Entry 138	END
FlexLogic Entry 139	END
FlexLogic Entry 140	END
FlexLogic Entry 141	END
FlexLogic Entry 142	END
FlexLogic Entry 143	END
FlexLogic Entry 144	END
FlexLogic Entry 145	END
FlexLogic Entry 146	END
FlexLogic Entry 147	END
FlexLogic Entry 148	END
FlexLogic Entry 149	END
FlexLogic Entry 150	END
FlexLogic Entry 151	END
FlexLogic Entry 152	END
FlexLogic Entry 153	END
FlexLogic Entry 154	END
FlexLogic Entry 155	END
FlexLogic Entry 156	END
FlexLogic Entry 157	END
FlexLogic Entry 158	END
FlexLogic Entry 159	END
FlexLogic Entry 160	END
FlexLogic Entry 161	END
FlexLogic Entry 162	END
FlexLogic Entry 163	END
FlexLogic Entry 164	END
FlexLogic Entry 165	END
FlexLogic Entry 166	END
FlexLogic Entry 167	END
FlexLogic Entry 168	END
FlexLogic Entry 169	END
FlexLogic Entry 170	END
FlexLogic Entry 171	END
FlexLogic Entry 172	END
FlexLogic Entry 173	END
FlexLogic Entry 174	END
FlexLogic Entry 175	END
FlexLogic Entry 176	END
FlexLogic Entry 177	END
FlexLogic Entry 178	END
FlexLogic Entry 179	END
FlexLogic Entry 180	END
FlexLogic Entry 181	END
FlexLogic Entry 182	END
FlexLogic Entry 183	END
FlexLogic Entry 184	END
FlexLogic Entry 185	END
FlexLogic Entry 186	END
FlexLogic Entry 187	END
FlexLogic Entry 188	END
FlexLogic Entry 189	END
FlexLogic Entry 190	END

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DEVICE DEFINITION  
DEVICES  
ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
VERSION: 5.5X  
UR SERIAL NUMBER: AABC08000458  
SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05  
DESCRIPTION: PACO B2  
TEXT COLOR  
ASSOCIATED DEVICE: (NONE)

---

FLEXLOGIC EQUATION EDITOR (continued from last page)

FlexLogic Entry 191	END
FlexLogic Entry 192	END
FlexLogic Entry 193	END
FlexLogic Entry 194	END
FlexLogic Entry 195	END
FlexLogic Entry 196	END
FlexLogic Entry 197	END
FlexLogic Entry 198	END
FlexLogic Entry 199	END
FlexLogic Entry 200	END
FlexLogic Entry 201	END
FlexLogic Entry 202	END
FlexLogic Entry 203	END
FlexLogic Entry 204	END
FlexLogic Entry 205	END
FlexLogic Entry 206	END
FlexLogic Entry 207	END
FlexLogic Entry 208	END
FlexLogic Entry 209	END
FlexLogic Entry 210	END
FlexLogic Entry 211	END
FlexLogic Entry 212	END
FlexLogic Entry 213	END
FlexLogic Entry 214	END
FlexLogic Entry 215	END
FlexLogic Entry 216	END
FlexLogic Entry 217	END
FlexLogic Entry 218	END
FlexLogic Entry 219	END
FlexLogic Entry 220	END
FlexLogic Entry 221	END
FlexLogic Entry 222	END
FlexLogic Entry 223	END
FlexLogic Entry 224	END
FlexLogic Entry 225	END
FlexLogic Entry 226	END
FlexLogic Entry 227	END
FlexLogic Entry 228	END
FlexLogic Entry 229	END
FlexLogic Entry 230	END
FlexLogic Entry 231	END
FlexLogic Entry 232	END
FlexLogic Entry 233	END
FlexLogic Entry 234	END
FlexLogic Entry 235	END
FlexLogic Entry 236	END
FlexLogic Entry 237	END
FlexLogic Entry 238	END
FlexLogic Entry 239	END
FlexLogic Entry 240	END
FlexLogic Entry 241	END
FlexLogic Entry 242	END
FlexLogic Entry 243	END
FlexLogic Entry 244	END
FlexLogic Entry 245	END
FlexLogic Entry 246	END
FlexLogic Entry 247	END
FlexLogic Entry 248	END
FlexLogic Entry 249	END
FlexLogic Entry 250	END
FlexLogic Entry 251	END
FlexLogic Entry 252	END
FlexLogic Entry 253	END
FlexLogic Entry 254	END
FlexLogic Entry 255	END
FlexLogic Entry 256	END
FlexLogic Entry 257	END
FlexLogic Entry 258	END
FlexLogic Entry 259	END
FlexLogic Entry 260	END
FlexLogic Entry 261	END

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DEVICE DEFINITION

DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
VERSION: 5.5X  
UR SERIAL NUMBER: AABC08000458  
SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05  
DESCRIPTION: PACO B2  
TEXT COLOR  
ASSOCIATED DEVICE: (NONE)

FLEXLOGIC EQUATION EDITOR (continued from last page)

FlexLogic Entry 262	END
FlexLogic Entry 263	END
FlexLogic Entry 264	END
FlexLogic Entry 265	END
FlexLogic Entry 266	END
FlexLogic Entry 267	END
FlexLogic Entry 268	END
FlexLogic Entry 269	END
FlexLogic Entry 270	END
FlexLogic Entry 271	END
FlexLogic Entry 272	END
FlexLogic Entry 273	END
FlexLogic Entry 274	END
FlexLogic Entry 275	END
FlexLogic Entry 276	END
FlexLogic Entry 277	END
FlexLogic Entry 278	END
FlexLogic Entry 279	END
FlexLogic Entry 280	END
FlexLogic Entry 281	END
FlexLogic Entry 282	END
FlexLogic Entry 283	END
FlexLogic Entry 284	END
FlexLogic Entry 285	END
FlexLogic Entry 286	END
FlexLogic Entry 287	END
FlexLogic Entry 288	END
FlexLogic Entry 289	END
FlexLogic Entry 290	END
FlexLogic Entry 291	END
FlexLogic Entry 292	END
FlexLogic Entry 293	END
FlexLogic Entry 294	END
FlexLogic Entry 295	END
FlexLogic Entry 296	END
FlexLogic Entry 297	END
FlexLogic Entry 298	END
FlexLogic Entry 299	END
FlexLogic Entry 300	END
FlexLogic Entry 301	END
FlexLogic Entry 302	END
FlexLogic Entry 303	END
FlexLogic Entry 304	END
FlexLogic Entry 305	END
FlexLogic Entry 306	END
FlexLogic Entry 307	END
FlexLogic Entry 308	END
FlexLogic Entry 309	END
FlexLogic Entry 310	END
FlexLogic Entry 311	END
FlexLogic Entry 312	END
FlexLogic Entry 313	END
FlexLogic Entry 314	END
FlexLogic Entry 315	END
FlexLogic Entry 316	END
FlexLogic Entry 317	END
FlexLogic Entry 318	END
FlexLogic Entry 319	END
FlexLogic Entry 320	END
FlexLogic Entry 321	END
FlexLogic Entry 322	END
FlexLogic Entry 323	END
FlexLogic Entry 324	END
FlexLogic Entry 325	END
FlexLogic Entry 326	END
FlexLogic Entry 327	END
FlexLogic Entry 328	END
FlexLogic Entry 329	END
FlexLogic Entry 330	END
FlexLogic Entry 331	END
FlexLogic Entry 332	END



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DEVICE DEFINITION  
DEVICES  
ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
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UR SERIAL NUMBER: AABC08000458  
SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05  
DESCRIPTION: PACO B2  
TEXT COLOR  
ASSOCIATED DEVICE: (NONE)

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FLEXLOGIC EQUATION EDITOR (continued from last page)

FlexLogic Entry 333	END
FlexLogic Entry 334	END
FlexLogic Entry 335	END
FlexLogic Entry 336	END
FlexLogic Entry 337	END
FlexLogic Entry 338	END
FlexLogic Entry 339	END
FlexLogic Entry 340	END
FlexLogic Entry 341	END
FlexLogic Entry 342	END
FlexLogic Entry 343	END
FlexLogic Entry 344	END
FlexLogic Entry 345	END
FlexLogic Entry 346	END
FlexLogic Entry 347	END
FlexLogic Entry 348	END
FlexLogic Entry 349	END
FlexLogic Entry 350	END
FlexLogic Entry 351	END
FlexLogic Entry 352	END
FlexLogic Entry 353	END
FlexLogic Entry 354	END
FlexLogic Entry 355	END
FlexLogic Entry 356	END
FlexLogic Entry 357	END
FlexLogic Entry 358	END
FlexLogic Entry 359	END
FlexLogic Entry 360	END
FlexLogic Entry 361	END
FlexLogic Entry 362	END
FlexLogic Entry 363	END
FlexLogic Entry 364	END
FlexLogic Entry 365	END
FlexLogic Entry 366	END
FlexLogic Entry 367	END
FlexLogic Entry 368	END
FlexLogic Entry 369	END
FlexLogic Entry 370	END
FlexLogic Entry 371	END
FlexLogic Entry 372	END
FlexLogic Entry 373	END
FlexLogic Entry 374	END
FlexLogic Entry 375	END
FlexLogic Entry 376	END
FlexLogic Entry 377	END
FlexLogic Entry 378	END
FlexLogic Entry 379	END
FlexLogic Entry 380	END
FlexLogic Entry 381	END
FlexLogic Entry 382	END
FlexLogic Entry 383	END
FlexLogic Entry 384	END
FlexLogic Entry 385	END
FlexLogic Entry 386	END
FlexLogic Entry 387	END
FlexLogic Entry 388	END
FlexLogic Entry 389	END
FlexLogic Entry 390	END
FlexLogic Entry 391	END
FlexLogic Entry 392	END
FlexLogic Entry 393	END
FlexLogic Entry 394	END
FlexLogic Entry 395	END
FlexLogic Entry 396	END
FlexLogic Entry 397	END
FlexLogic Entry 398	END
FlexLogic Entry 399	END
FlexLogic Entry 400	END
FlexLogic Entry 401	END
FlexLogic Entry 402	END
FlexLogic Entry 403	END

SE LMO BACKUP DEJADO PS2 PACO B02\_06082020.URS  
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DEVICE DEFINITION

DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
VERSION: 5.5X  
UR SERIAL NUMBER: AABC08000458  
SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05  
DESCRIPTION: PACO B2  
TEXT COLOR  
ASSOCIATED DEVICE: (NONE)

FLEXLOGIC EQUATION EDITOR (continued from last page)

FlexLogic Entry 404	END
FlexLogic Entry 405	END
FlexLogic Entry 406	END
FlexLogic Entry 407	END
FlexLogic Entry 408	END
FlexLogic Entry 409	END
FlexLogic Entry 410	END
FlexLogic Entry 411	END
FlexLogic Entry 412	END
FlexLogic Entry 413	END
FlexLogic Entry 414	END
FlexLogic Entry 415	END
FlexLogic Entry 416	END
FlexLogic Entry 417	END
FlexLogic Entry 418	END
FlexLogic Entry 419	END
FlexLogic Entry 420	END
FlexLogic Entry 421	END
FlexLogic Entry 422	END
FlexLogic Entry 423	END
FlexLogic Entry 424	END
FlexLogic Entry 425	END
FlexLogic Entry 426	END
FlexLogic Entry 427	END
FlexLogic Entry 428	END
FlexLogic Entry 429	END
FlexLogic Entry 430	END
FlexLogic Entry 431	END
FlexLogic Entry 432	END
FlexLogic Entry 433	END
FlexLogic Entry 434	END
FlexLogic Entry 435	END
FlexLogic Entry 436	END
FlexLogic Entry 437	END
FlexLogic Entry 438	END
FlexLogic Entry 439	END
FlexLogic Entry 440	END
FlexLogic Entry 441	END
FlexLogic Entry 442	END
FlexLogic Entry 443	END
FlexLogic Entry 444	END
FlexLogic Entry 445	END
FlexLogic Entry 446	END
FlexLogic Entry 447	END
FlexLogic Entry 448	END
FlexLogic Entry 449	END
FlexLogic Entry 450	END
FlexLogic Entry 451	END
FlexLogic Entry 452	END
FlexLogic Entry 453	END
FlexLogic Entry 454	END
FlexLogic Entry 455	END
FlexLogic Entry 456	END
FlexLogic Entry 457	END
FlexLogic Entry 458	END
FlexLogic Entry 459	END
FlexLogic Entry 460	END
FlexLogic Entry 461	END
FlexLogic Entry 462	END
FlexLogic Entry 463	END
FlexLogic Entry 464	END
FlexLogic Entry 465	END
FlexLogic Entry 466	END
FlexLogic Entry 467	END
FlexLogic Entry 468	END
FlexLogic Entry 469	END
FlexLogic Entry 470	END
FlexLogic Entry 471	END
FlexLogic Entry 472	END
FlexLogic Entry 473	END
FlexLogic Entry 474	END

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DEVICE DEFINITION

DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000458  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05  
 DESCRIPTION: PACO B2  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

FLEXLOGIC EQUATION EDITOR (continued from last page)

FlexLogic Entry 475	END
FlexLogic Entry 476	END
FlexLogic Entry 477	END
FlexLogic Entry 478	END
FlexLogic Entry 479	END
FlexLogic Entry 480	END
FlexLogic Entry 481	END
FlexLogic Entry 482	END
FlexLogic Entry 483	END
FlexLogic Entry 484	END
FlexLogic Entry 485	END
FlexLogic Entry 486	END
FlexLogic Entry 487	END
FlexLogic Entry 488	END
FlexLogic Entry 489	END
FlexLogic Entry 490	END
FlexLogic Entry 491	END
FlexLogic Entry 492	END
FlexLogic Entry 493	END
FlexLogic Entry 494	END
FlexLogic Entry 495	END
FlexLogic Entry 496	END
FlexLogic Entry 497	END
FlexLogic Entry 498	END
FlexLogic Entry 499	END
FlexLogic Entry 500	END
FlexLogic Entry 501	END
FlexLogic Entry 502	END
FlexLogic Entry 503	END
FlexLogic Entry 504	END
FlexLogic Entry 505	END
FlexLogic Entry 506	END
FlexLogic Entry 507	END
FlexLogic Entry 508	END
FlexLogic Entry 509	END
FlexLogic Entry 510	END
FlexLogic Entry 511	END
FlexLogic Entry 512	END

FLEXLOGIC TIMERS

Timer 1: Type	second
Timer 1: Pickup Delay	15
Timer 1: Dropout Delay	0
Timer 2: Type	millisecond
Timer 2: Pickup Delay	0
Timer 2: Dropout Delay	0
Timer 3: Type	millisecond
Timer 3: Pickup Delay	0
Timer 3: Dropout Delay	0
Timer 4: Type	millisecond
Timer 4: Pickup Delay	0
Timer 4: Dropout Delay	0
Timer 5: Type	millisecond
Timer 5: Pickup Delay	0
Timer 5: Dropout Delay	0
Timer 6: Type	millisecond
Timer 6: Pickup Delay	0
Timer 6: Dropout Delay	0
Timer 7: Type	millisecond
Timer 7: Pickup Delay	0
Timer 7: Dropout Delay	0
Timer 8: Type	millisecond
Timer 8: Pickup Delay	0
Timer 8: Dropout Delay	0
Timer 9: Type	millisecond
Timer 9: Pickup Delay	0
Timer 9: Dropout Delay	0
Timer 10: Type	millisecond
Timer 10: Pickup Delay	0
Timer 10: Dropout Delay	0
Timer 11: Type	millisecond

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DEVICE DEFINITION

DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000458  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05  
 DESCRIPTION: PACO B2  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

FLEXLOGIC TIMERS (continued from last page)

Timer 11: Pickup Delay	0
Timer 11: Dropout Delay	0
Timer 12: Type	millisecond
Timer 12: Pickup Delay	0
Timer 12: Dropout Delay	0
Timer 13: Type	millisecond
Timer 13: Pickup Delay	0
Timer 13: Dropout Delay	0
Timer 14: Type	millisecond
Timer 14: Pickup Delay	0
Timer 14: Dropout Delay	0
Timer 15: Type	millisecond
Timer 15: Pickup Delay	0
Timer 15: Dropout Delay	0
Timer 16: Type	millisecond
Timer 16: Pickup Delay	0
Timer 16: Dropout Delay	0
Timer 17: Type	millisecond
Timer 17: Pickup Delay	0
Timer 17: Dropout Delay	0
Timer 18: Type	millisecond
Timer 18: Pickup Delay	0
Timer 18: Dropout Delay	0
Timer 19: Type	millisecond
Timer 19: Pickup Delay	0
Timer 19: Dropout Delay	0
Timer 20: Type	millisecond
Timer 20: Pickup Delay	0
Timer 20: Dropout Delay	0
Timer 21: Type	millisecond
Timer 21: Pickup Delay	0
Timer 21: Dropout Delay	0
Timer 22: Type	millisecond
Timer 22: Pickup Delay	0
Timer 22: Dropout Delay	0
Timer 23: Type	millisecond
Timer 23: Pickup Delay	0
Timer 23: Dropout Delay	0
Timer 24: Type	millisecond
Timer 24: Pickup Delay	0
Timer 24: Dropout Delay	0
Timer 25: Type	millisecond
Timer 25: Pickup Delay	0
Timer 25: Dropout Delay	0
Timer 26: Type	millisecond
Timer 26: Pickup Delay	0
Timer 26: Dropout Delay	0
Timer 27: Type	millisecond
Timer 27: Pickup Delay	0
Timer 27: Dropout Delay	0
Timer 28: Type	millisecond
Timer 28: Pickup Delay	0
Timer 28: Dropout Delay	0
Timer 29: Type	millisecond
Timer 29: Pickup Delay	0
Timer 29: Dropout Delay	0
Timer 30: Type	millisecond
Timer 30: Pickup Delay	0
Timer 30: Dropout Delay	0
Timer 31: Type	millisecond
Timer 31: Pickup Delay	0
Timer 31: Dropout Delay	0
Timer 32: Type	millisecond
Timer 32: Pickup Delay	0
Timer 32: Dropout Delay	0

FLEXELEMENTS

FLEXELEMENTS 1: Function	Enabled
FLEXELEMENTS 1: Name	P 8MW
FLEXELEMENTS 1: InputPlus	SRC1 P
FLEXELEMENTS 1: InputMinus	OFF

SE LMO BACKUP DEJADO PS2 PACO B02\_06082020.URS

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## DEVICE DEFINITION

## DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67

VERSION: 5.5X

UR SERIAL NUMBER: AABC08000458

SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05

DESCRIPTION: PACO B2

TEXT COLOR

ASSOCIATED DEVICE: (NONE)

## FLEXELEMENTS (continued from last page)

FLEXELEMENTS 1: InputMode	ABSOLUTE
FLEXELEMENTS 1: Compare Mode	LEVEL
FLEXELEMENTS 1: Direction Type	OVER
FLEXELEMENTS 1: Pickup	1.330 pu
FLEXELEMENTS 1: Hysteresis	3.0 %
FLEXELEMENTS 1: DeltaTUnits	Milliseconds
FLEXELEMENTS 1: DeltaT	20
FLEXELEMENTS 1: Pickup Delay	0.000 s
FLEXELEMENTS 1: Reset Delay	0.000 s
FLEXELEMENTS 1: Block	OFF
FLEXELEMENTS 1: Target	Self-reset
FLEXELEMENTS 1: Events	Enabled
FLEXELEMENTS 2: Function	Disabled
FLEXELEMENTS 2: Name	FxE 2
FLEXELEMENTS 2: InputPlus	OFF
FLEXELEMENTS 2: InputMinus	OFF
FLEXELEMENTS 2: InputMode	SIGNED
FLEXELEMENTS 2: Compare Mode	LEVEL
FLEXELEMENTS 2: Direction Type	OVER
FLEXELEMENTS 2: Pickup	1.000 pu
FLEXELEMENTS 2: Hysteresis	3.0 %
FLEXELEMENTS 2: DeltaTUnits	Milliseconds
FLEXELEMENTS 2: DeltaT	20
FLEXELEMENTS 2: Pickup Delay	0.000 s
FLEXELEMENTS 2: Reset Delay	0.000 s
FLEXELEMENTS 2: Block	OFF
FLEXELEMENTS 2: Target	Self-reset
FLEXELEMENTS 2: Events	Disabled
FLEXELEMENTS 3: Function	Disabled
FLEXELEMENTS 3: Name	FxE 3
FLEXELEMENTS 3: InputPlus	OFF
FLEXELEMENTS 3: InputMinus	OFF
FLEXELEMENTS 3: InputMode	SIGNED
FLEXELEMENTS 3: Compare Mode	LEVEL
FLEXELEMENTS 3: Direction Type	OVER
FLEXELEMENTS 3: Pickup	1.000 pu
FLEXELEMENTS 3: Hysteresis	3.0 %
FLEXELEMENTS 3: DeltaTUnits	Milliseconds
FLEXELEMENTS 3: DeltaT	20
FLEXELEMENTS 3: Pickup Delay	0.000 s
FLEXELEMENTS 3: Reset Delay	0.000 s
FLEXELEMENTS 3: Block	OFF
FLEXELEMENTS 3: Target	Self-reset
FLEXELEMENTS 3: Events	Disabled
FLEXELEMENTS 4: Function	Disabled
FLEXELEMENTS 4: Name	FxE 4
FLEXELEMENTS 4: InputPlus	OFF
FLEXELEMENTS 4: InputMinus	OFF
FLEXELEMENTS 4: InputMode	SIGNED
FLEXELEMENTS 4: Compare Mode	LEVEL
FLEXELEMENTS 4: Direction Type	OVER
FLEXELEMENTS 4: Pickup	1.000 pu
FLEXELEMENTS 4: Hysteresis	3.0 %
FLEXELEMENTS 4: DeltaTUnits	Milliseconds
FLEXELEMENTS 4: DeltaT	20
FLEXELEMENTS 4: Pickup Delay	0.000 s
FLEXELEMENTS 4: Reset Delay	0.000 s
FLEXELEMENTS 4: Block	OFF
FLEXELEMENTS 4: Target	Self-reset
FLEXELEMENTS 4: Events	Disabled
FLEXELEMENTS 5: Function	Disabled
FLEXELEMENTS 5: Name	FxE 5
FLEXELEMENTS 5: InputPlus	OFF
FLEXELEMENTS 5: InputMinus	OFF
FLEXELEMENTS 5: InputMode	SIGNED
FLEXELEMENTS 5: Compare Mode	LEVEL
FLEXELEMENTS 5: Direction Type	OVER
FLEXELEMENTS 5: Pickup	1.000 pu
FLEXELEMENTS 5: Hysteresis	3.0 %
FLEXELEMENTS 5: DeltaTUnits	Milliseconds
FLEXELEMENTS 5: DeltaT	20

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 VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B2\SE LMO BACKUP DEJADO PS2 PACO B02\_06082020\

## DEVICE DEFINITION

## DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000458  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05  
 DESCRIPTION: PACO B2  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

## FLEXELEMENTS (continued from last page)

FLEXELEMENTS 5: Pickup Delay	0.000 s
FLEXELEMENTS 5: Reset Delay	0.000 s
FLEXELEMENTS 5: Block	OFF
FLEXELEMENTS 5: Target	Self-reset
FLEXELEMENTS 5: Events	Disabled
FLEXELEMENTS 6: Function	Disabled
FLEXELEMENTS 6: Name	FxE 6
FLEXELEMENTS 6: InputPlus	OFF
FLEXELEMENTS 6: InputMinus	OFF
FLEXELEMENTS 6: InputMode	SIGNED
FLEXELEMENTS 6: Compare Mode	LEVEL
FLEXELEMENTS 6: Direction Type	OVER
FLEXELEMENTS 6: Pickup	1.000 pu
FLEXELEMENTS 6: Hysteresis	3.0 %
FLEXELEMENTS 6: DeltaTUnits	Milliseconds
FLEXELEMENTS 6: DeltaT	20
FLEXELEMENTS 6: Pickup Delay	0.000 s
FLEXELEMENTS 6: Reset Delay	0.000 s
FLEXELEMENTS 6: Block	OFF
FLEXELEMENTS 6: Target	Self-reset
FLEXELEMENTS 6: Events	Disabled
FLEXELEMENTS 7: Function	Disabled
FLEXELEMENTS 7: Name	FxE 7
FLEXELEMENTS 7: InputPlus	OFF
FLEXELEMENTS 7: InputMinus	OFF
FLEXELEMENTS 7: InputMode	SIGNED
FLEXELEMENTS 7: Compare Mode	LEVEL
FLEXELEMENTS 7: Direction Type	OVER
FLEXELEMENTS 7: Pickup	1.000 pu
FLEXELEMENTS 7: Hysteresis	3.0 %
FLEXELEMENTS 7: DeltaTUnits	Milliseconds
FLEXELEMENTS 7: DeltaT	20
FLEXELEMENTS 7: Pickup Delay	0.000 s
FLEXELEMENTS 7: Reset Delay	0.000 s
FLEXELEMENTS 7: Block	OFF
FLEXELEMENTS 7: Target	Self-reset
FLEXELEMENTS 7: Events	Disabled
FLEXELEMENTS 8: Function	Disabled
FLEXELEMENTS 8: Name	FxE 8
FLEXELEMENTS 8: InputPlus	OFF
FLEXELEMENTS 8: InputMinus	OFF
FLEXELEMENTS 8: InputMode	SIGNED
FLEXELEMENTS 8: Compare Mode	LEVEL
FLEXELEMENTS 8: Direction Type	OVER
FLEXELEMENTS 8: Pickup	1.000 pu
FLEXELEMENTS 8: Hysteresis	3.0 %
FLEXELEMENTS 8: DeltaTUnits	Milliseconds
FLEXELEMENTS 8: DeltaT	20
FLEXELEMENTS 8: Pickup Delay	0.000 s
FLEXELEMENTS 8: Reset Delay	0.000 s
FLEXELEMENTS 8: Block	OFF
FLEXELEMENTS 8: Target	Self-reset
FLEXELEMENTS 8: Events	Disabled

## NON-VOLATILE LATCHES

LATCH 1: Function	Disabled
LATCH 1: Type	Reset Dominant
LATCH 1: Set	OFF
LATCH 1: Reset	OFF
LATCH 1: Target	Self-reset
LATCH 1: Events	Disabled
LATCH 2: Function	Disabled
LATCH 2: Type	Reset Dominant
LATCH 2: Set	OFF
LATCH 2: Reset	OFF
LATCH 2: Target	Self-reset
LATCH 2: Events	Disabled
LATCH 3: Function	Disabled
LATCH 3: Type	Reset Dominant
LATCH 3: Set	OFF
LATCH 3: Reset	OFF

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DEVICE DEFINITION

DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000458  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05  
 DESCRIPTION: PACO B2  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

NON-VOLATILE LATCHES (continued from last page)

LATCH 3: Target	Self-reset
LATCH 3: Events	Disabled
LATCH 4: Function	Disabled
LATCH 4: Type	Reset Dominant
LATCH 4: Set	OFF
LATCH 4: Reset	OFF
LATCH 4: Target	Self-reset
LATCH 4: Events	Disabled
LATCH 5: Function	Disabled
LATCH 5: Type	Reset Dominant
LATCH 5: Set	OFF
LATCH 5: Reset	OFF
LATCH 5: Target	Self-reset
LATCH 5: Events	Disabled
LATCH 6: Function	Disabled
LATCH 6: Type	Reset Dominant
LATCH 6: Set	OFF
LATCH 6: Reset	OFF
LATCH 6: Target	Self-reset
LATCH 6: Events	Disabled
LATCH 7: Function	Disabled
LATCH 7: Type	Reset Dominant
LATCH 7: Set	OFF
LATCH 7: Reset	OFF
LATCH 7: Target	Self-reset
LATCH 7: Events	Disabled
LATCH 8: Function	Disabled
LATCH 8: Type	Reset Dominant
LATCH 8: Set	OFF
LATCH 8: Reset	OFF
LATCH 8: Target	Self-reset
LATCH 8: Events	Disabled
LATCH 9: Function	Disabled
LATCH 9: Type	Reset Dominant
LATCH 9: Set	OFF
LATCH 9: Reset	OFF
LATCH 9: Target	Self-reset
LATCH 9: Events	Disabled
LATCH 10: Function	Disabled
LATCH 10: Type	Reset Dominant
LATCH 10: Set	OFF
LATCH 10: Reset	OFF
LATCH 10: Target	Self-reset
LATCH 10: Events	Disabled
LATCH 11: Function	Disabled
LATCH 11: Type	Reset Dominant
LATCH 11: Set	OFF
LATCH 11: Reset	OFF
LATCH 11: Target	Self-reset
LATCH 11: Events	Disabled
LATCH 12: Function	Disabled
LATCH 12: Type	Reset Dominant
LATCH 12: Set	OFF
LATCH 12: Reset	OFF
LATCH 12: Target	Self-reset
LATCH 12: Events	Disabled
LATCH 13: Function	Disabled
LATCH 13: Type	Reset Dominant
LATCH 13: Set	OFF
LATCH 13: Reset	OFF
LATCH 13: Target	Self-reset
LATCH 13: Events	Disabled
LATCH 14: Function	Disabled
LATCH 14: Type	Reset Dominant
LATCH 14: Set	OFF
LATCH 14: Reset	OFF
LATCH 14: Target	Self-reset
LATCH 14: Events	Disabled
LATCH 15: Function	Disabled
LATCH 15: Type	Reset Dominant
LATCH 15: Set	OFF

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DEVICE DEFINITION

DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000458  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05  
 DESCRIPTION: PACO B2  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

NON-VOLATILE LATCHES (continued from last page)

LATCH 15: Reset	OFF
LATCH 15: Target	Self-reset
LATCH 15: Events	Disabled
LATCH 16: Function	Disabled
LATCH 16: Type	Reset Dominant
LATCH 16: Set	OFF
LATCH 16: Reset	OFF
LATCH 16: Target	Self-reset
LATCH 16: Events	Disabled

GROUPED ELEMENTS

GROUP 1

LINE PICKUP [GROUP 1]

Function	Enabled
Signal Source	SRC 1 (SRC 1)
Phase IOC Line Pickup	1.000 pu
UV Pickup	0.800 pu
Line End Open Pickup Delay	0.200 s
Line End Open Reset Delay	0.200 s
OV Pickup Delay	0.040 s
Autoreclose Coordination Bypass	Enabled
Autoreclose Coordination Pickup Delay	0.045 s
Autoreclose Coordination Reset Delay	0.005 s
Terminal Open	BREAKER 1 OPEN
AR Accelerate	OFF
Distance Trip	Disabled
Block	OFF
Target	Latched
Events	Enabled

DISTANCE

DISTANCE [GROUP 1]

Source	SRC 1 (SRC 1)
Memory Duration	10 cycles
Force Self-Polar	OFF
Force Mem-Polar	OFF

PHASE DISTANCE [GROUP 1]

PHASE DISTANCE Z1: Function	Enabled
PHASE DISTANCE Z1: Direction	Forward
PHASE DISTANCE Z1: Shape	Mho
PHASE DISTANCE Z1: Xfmr Vol Connection	None
PHASE DISTANCE Z1: Xfmr Curr Connection	None
PHASE DISTANCE Z1: Reach	1.16 ohms
PHASE DISTANCE Z1: RCA	60 deg
PHASE DISTANCE Z1: Rev Reach	0.02 ohms
PHASE DISTANCE Z1: Rev Reach RCA	60 deg
PHASE DISTANCE Z1: Comp Limit	90 deg
PHASE DISTANCE Z1: DIR RCA	60 deg
PHASE DISTANCE Z1: DIR Comp Limit	90 deg
PHASE DISTANCE Z1: Quad Right Blinder	10.00 ohms
PHASE DISTANCE Z1: Quad Right Blinder RCA	85 deg
PHASE DISTANCE Z1: Quad Left Blinder	10.00 ohms
PHASE DISTANCE Z1: Quad Left Blinder RCA	85 deg
PHASE DISTANCE Z1: Supervision	0.100 pu
PHASE DISTANCE Z1: Volt Level	0.000 pu
PHASE DISTANCE Z1: Delay	0.000 s
PHASE DISTANCE Z1: Block	FALLA POT On (VO1)
PHASE DISTANCE Z1: Target	Latched
PHASE DISTANCE Z1: Events	Enabled
PHASE DISTANCE Z2: Function	Enabled
PHASE DISTANCE Z2: Direction	Forward
PHASE DISTANCE Z2: Shape	Mho
PHASE DISTANCE Z2: Xfmr Vol Connection	None
PHASE DISTANCE Z2: Xfmr Curr Connection	None
PHASE DISTANCE Z2: Reach	2.28 ohms
PHASE DISTANCE Z2: RCA	60 deg
PHASE DISTANCE Z2: Rev Reach	0.02 ohms
PHASE DISTANCE Z2: Rev Reach RCA	60 deg
PHASE DISTANCE Z2: Comp Limit	90 deg
PHASE DISTANCE Z2: DIR RCA	60 deg



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## DEVICE DEFINITION

## DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000458  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05  
 DESCRIPTION: PACO B2  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

## PHASE DISTANCE [GROUP 1] (continued from last page)

PHASE DISTANCE Z2: DIR Comp Limit	90 deg
PHASE DISTANCE Z2: Quad Right Blinder	10.00 ohms
PHASE DISTANCE Z2: Quad Right Blinder RCA	85 deg
PHASE DISTANCE Z2: Quad Left Blinder	10.00 ohms
PHASE DISTANCE Z2: Quad Left Blinder RCA	85 deg
PHASE DISTANCE Z2: Supervision	0.100 pu
PHASE DISTANCE Z2: Volt Level	0.000 pu
PHASE DISTANCE Z2: Delay	0.500 s
PHASE DISTANCE Z2: Block	FALLA POT On (VO1)
PHASE DISTANCE Z2: Target	Latched
PHASE DISTANCE Z2: Events	Enabled
PHASE DISTANCE Z3: Function	Enabled
PHASE DISTANCE Z3: Direction	Forward
PHASE DISTANCE Z3: Shape	Mho
PHASE DISTANCE Z3: Xfmr Vol Connection	None
PHASE DISTANCE Z3: Xfmr Curr Connection	None
PHASE DISTANCE Z3: Reach	6.21 ohms
PHASE DISTANCE Z3: RCA	60 deg
PHASE DISTANCE Z3: Rev Reach	0.02 ohms
PHASE DISTANCE Z3: Rev Reach RCA	60 deg
PHASE DISTANCE Z3: Comp Limit	90 deg
PHASE DISTANCE Z3: DIR RCA	60 deg
PHASE DISTANCE Z3: DIR Comp Limit	90 deg
PHASE DISTANCE Z3: Quad Right Blinder	10.00 ohms
PHASE DISTANCE Z3: Quad Right Blinder RCA	85 deg
PHASE DISTANCE Z3: Quad Left Blinder	10.00 ohms
PHASE DISTANCE Z3: Quad Left Blinder RCA	85 deg
PHASE DISTANCE Z3: Supervision	0.100 pu
PHASE DISTANCE Z3: Volt Level	0.000 pu
PHASE DISTANCE Z3: Delay	0.900 s
PHASE DISTANCE Z3: Block	FALLA POT On (VO1)
PHASE DISTANCE Z3: Target	Latched
PHASE DISTANCE Z3: Events	Enabled
PHASE DISTANCE Z4: Function	Disabled
PHASE DISTANCE Z4: Direction	Forward
PHASE DISTANCE Z4: Shape	Mho
PHASE DISTANCE Z4: Xfmr Vol Connection	None
PHASE DISTANCE Z4: Xfmr Curr Connection	None
PHASE DISTANCE Z4: Reach	2.00 ohms
PHASE DISTANCE Z4: RCA	85 deg
PHASE DISTANCE Z4: Rev Reach	2.00 ohms
PHASE DISTANCE Z4: Rev Reach RCA	85 deg
PHASE DISTANCE Z4: Comp Limit	90 deg
PHASE DISTANCE Z4: DIR RCA	85 deg
PHASE DISTANCE Z4: DIR Comp Limit	90 deg
PHASE DISTANCE Z4: Quad Right Blinder	10.00 ohms
PHASE DISTANCE Z4: Quad Right Blinder RCA	85 deg
PHASE DISTANCE Z4: Quad Left Blinder	10.00 ohms
PHASE DISTANCE Z4: Quad Left Blinder RCA	85 deg
PHASE DISTANCE Z4: Supervision	0.100 pu
PHASE DISTANCE Z4: Volt Level	0.000 pu
PHASE DISTANCE Z4: Delay	0.000 s
PHASE DISTANCE Z4: Block	OFF
PHASE DISTANCE Z4: Target	Self-reset
PHASE DISTANCE Z4: Events	Disabled
PHASE DISTANCE Z5: Function	Disabled
PHASE DISTANCE Z5: Direction	Forward
PHASE DISTANCE Z5: Shape	Mho
PHASE DISTANCE Z5: Xfmr Vol Connection	None
PHASE DISTANCE Z5: Xfmr Curr Connection	None
PHASE DISTANCE Z5: Reach	2.00 ohms
PHASE DISTANCE Z5: RCA	85 deg
PHASE DISTANCE Z5: Rev Reach	2.00 ohms
PHASE DISTANCE Z5: Rev Reach RCA	85 deg
PHASE DISTANCE Z5: Comp Limit	90 deg
PHASE DISTANCE Z5: DIR RCA	85 deg
PHASE DISTANCE Z5: DIR Comp Limit	90 deg
PHASE DISTANCE Z5: Quad Right Blinder	10.00 ohms
PHASE DISTANCE Z5: Quad Right Blinder RCA	85 deg
PHASE DISTANCE Z5: Quad Left Blinder	10.00 ohms
PHASE DISTANCE Z5: Quad Left Blinder RCA	85 deg

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 VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B2\SE LMO BACKUP DEJADO PS2 PACO B02\_06082020\

DEVICE DEFINITION

DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000458  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05  
 DESCRIPTION: PACO B2  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

PHASE DISTANCE [GROUP 1] (continued from last page)

PHASE DISTANCE Z5: Supervision	0.100 pu
PHASE DISTANCE Z5: Volt Level	0.000 pu
PHASE DISTANCE Z5: Delay	0.000 s
PHASE DISTANCE Z5: Block	OFF
PHASE DISTANCE Z5: Target	Self-reset
PHASE DISTANCE Z5: Events	Disabled

GROUND DISTANCE [GROUP 1]

GROUND DISTANCE Z1: Function	Enabled
GROUND DISTANCE Z1: Direction	Forward
GROUND DISTANCE Z1: Shape	Mho
GROUND DISTANCE Z1: Z0/Z1 Mag	3.32
GROUND DISTANCE Z1: Z0/Z1 Ang	11 deg
GROUND DISTANCE Z1: Z0M/Z1 Mag	0.00
GROUND DISTANCE Z1: Z0M/Z1 Ang	0 deg
GROUND DISTANCE Z1: Reach	0.93 ohms
GROUND DISTANCE Z1: RCA	60 deg
GROUND DISTANCE Z1: Rev Reach	0.02 ohms
GROUND DISTANCE Z1: Rev Reach RCA	60 deg
GROUND DISTANCE Z1: POL Current	Neg-seq
GROUND DISTANCE Z1: Non-Homogen Ang	0.0 deg
GROUND DISTANCE Z1: Comp Limit	90 deg
GROUND DISTANCE Z1: DIR RCA	60 deg
GROUND DISTANCE Z1: DIR Comp Limit	90 deg
GROUND DISTANCE Z1: Quad Right Blinder	10.00 ohms
GROUND DISTANCE Z1: Quad Right Blinder RCA	85 deg
GROUND DISTANCE Z1: Quad Left Blinder	10.00 ohms
GROUND DISTANCE Z1: Quad Left Blinder RCA	85 deg
GROUND DISTANCE Z1: Supervision	0.100 pu
GROUND DISTANCE Z1: Volt Level	0.000 pu
GROUND DISTANCE Z1: Delay	0.000 s
GROUND DISTANCE Z1: Block	FALLA POT On (VO1)
GROUND DISTANCE Z1: Target	Latched
GROUND DISTANCE Z1: Events	Enabled
GROUND DISTANCE Z2: Function	Enabled
GROUND DISTANCE Z2: Direction	Forward
GROUND DISTANCE Z2: Shape	Mho
GROUND DISTANCE Z2: Z0/Z1 Mag	3.32
GROUND DISTANCE Z2: Z0/Z1 Ang	11 deg
GROUND DISTANCE Z2: Z0M/Z1 Mag	0.00
GROUND DISTANCE Z2: Z0M/Z1 Ang	0 deg
GROUND DISTANCE Z2: Reach	2.64 ohms
GROUND DISTANCE Z2: RCA	60 deg
GROUND DISTANCE Z2: Rev Reach	0.02 ohms
GROUND DISTANCE Z2: Rev Reach RCA	60 deg
GROUND DISTANCE Z2: POL Current	Neg-seq
GROUND DISTANCE Z2: Non-Homogen Ang	0.0 deg
GROUND DISTANCE Z2: Comp Limit	90 deg
GROUND DISTANCE Z2: DIR RCA	60 deg
GROUND DISTANCE Z2: DIR Comp Limit	90 deg
GROUND DISTANCE Z2: Quad Right Blinder	10.00 ohms
GROUND DISTANCE Z2: Quad Right Blinder RCA	85 deg
GROUND DISTANCE Z2: Quad Left Blinder	10.00 ohms
GROUND DISTANCE Z2: Quad Left Blinder RCA	85 deg
GROUND DISTANCE Z2: Supervision	0.100 pu
GROUND DISTANCE Z2: Volt Level	0.000 pu
GROUND DISTANCE Z2: Delay	0.500 s
GROUND DISTANCE Z2: Block	FALLA POT On (VO1)
GROUND DISTANCE Z2: Target	Latched
GROUND DISTANCE Z2: Events	Enabled
GROUND DISTANCE Z3: Function	Enabled
GROUND DISTANCE Z3: Direction	Forward
GROUND DISTANCE Z3: Shape	Mho
GROUND DISTANCE Z3: Z0/Z1 Mag	3.32
GROUND DISTANCE Z3: Z0/Z1 Ang	11 deg
GROUND DISTANCE Z3: Z0M/Z1 Mag	0.00
GROUND DISTANCE Z3: Z0M/Z1 Ang	0 deg
GROUND DISTANCE Z3: Reach	3.69 ohms
GROUND DISTANCE Z3: RCA	60 deg
GROUND DISTANCE Z3: Rev Reach	0.02 ohms
GROUND DISTANCE Z3: Rev Reach RCA	60 deg

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DEVICE DEFINITION

DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000458  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05  
 DESCRIPTION: PACO B2  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

GROUND DISTANCE [GROUP 1] (continued from last page)

GROUND DISTANCE Z3: POL Current	Neg-seq
GROUND DISTANCE Z3: Non-Homogen Ang	0.0 deg
GROUND DISTANCE Z3: Comp Limit	90 deg
GROUND DISTANCE Z3: DIR RCA	60 deg
GROUND DISTANCE Z3: DIR Comp Limit	90 deg
GROUND DISTANCE Z3: Quad Right Blinder	10.00 ohms
GROUND DISTANCE Z3: Quad Right Blinder RCA	85 deg
GROUND DISTANCE Z3: Quad Left Blinder	10.00 ohms
GROUND DISTANCE Z3: Quad Left Blinder RCA	85 deg
GROUND DISTANCE Z3: Supervision	0.100 pu
GROUND DISTANCE Z3: Volt Level	0.000 pu
GROUND DISTANCE Z3: Delay	1.500 s
GROUND DISTANCE Z3: Block	FALLA POT On (VO1)
GROUND DISTANCE Z3: Target	Latched
GROUND DISTANCE Z3: Events	Enabled
GROUND DISTANCE Z4: Function	Disabled
GROUND DISTANCE Z4: Direction	Forward
GROUND DISTANCE Z4: Shape	Mho
GROUND DISTANCE Z4: Z0/Z1 Mag	2.70
GROUND DISTANCE Z4: Z0/Z1 Ang	0 deg
GROUND DISTANCE Z4: Z0M/Z1 Mag	0.00
GROUND DISTANCE Z4: Z0M/Z1 Ang	0 deg
GROUND DISTANCE Z4: Reach	2.00 ohms
GROUND DISTANCE Z4: RCA	85 deg
GROUND DISTANCE Z4: Rev Reach	2.00 ohms
GROUND DISTANCE Z4: Rev Reach RCA	85 deg
GROUND DISTANCE Z4: POL Current	Zero-seq
GROUND DISTANCE Z4: Non-Homogen Ang	0.0 deg
GROUND DISTANCE Z4: Comp Limit	90 deg
GROUND DISTANCE Z4: DIR RCA	85 deg
GROUND DISTANCE Z4: DIR Comp Limit	90 deg
GROUND DISTANCE Z4: Quad Right Blinder	10.00 ohms
GROUND DISTANCE Z4: Quad Right Blinder RCA	85 deg
GROUND DISTANCE Z4: Quad Left Blinder	10.00 ohms
GROUND DISTANCE Z4: Quad Left Blinder RCA	85 deg
GROUND DISTANCE Z4: Supervision	0.200 pu
GROUND DISTANCE Z4: Volt Level	0.000 pu
GROUND DISTANCE Z4: Delay	0.500 s
GROUND DISTANCE Z4: Block	OFF
GROUND DISTANCE Z4: Target	Self-reset
GROUND DISTANCE Z4: Events	Disabled
GROUND DISTANCE Z5: Function	Disabled
GROUND DISTANCE Z5: Direction	Forward
GROUND DISTANCE Z5: Shape	Mho
GROUND DISTANCE Z5: Z0/Z1 Mag	2.70
GROUND DISTANCE Z5: Z0/Z1 Ang	0 deg
GROUND DISTANCE Z5: Z0M/Z1 Mag	0.00
GROUND DISTANCE Z5: Z0M/Z1 Ang	0 deg
GROUND DISTANCE Z5: Reach	2.00 ohms
GROUND DISTANCE Z5: RCA	85 deg
GROUND DISTANCE Z5: Rev Reach	2.00 ohms
GROUND DISTANCE Z5: Rev Reach RCA	85 deg
GROUND DISTANCE Z5: POL Current	Zero-seq
GROUND DISTANCE Z5: Non-Homogen Ang	0.0 deg
GROUND DISTANCE Z5: Comp Limit	90 deg
GROUND DISTANCE Z5: DIR RCA	85 deg
GROUND DISTANCE Z5: DIR Comp Limit	90 deg
GROUND DISTANCE Z5: Quad Right Blinder	10.00 ohms
GROUND DISTANCE Z5: Quad Right Blinder RCA	85 deg
GROUND DISTANCE Z5: Quad Left Blinder	10.00 ohms
GROUND DISTANCE Z5: Quad Left Blinder RCA	85 deg
GROUND DISTANCE Z5: Supervision	0.200 pu
GROUND DISTANCE Z5: Volt Level	0.000 pu
GROUND DISTANCE Z5: Delay	0.000 s
GROUND DISTANCE Z5: Block	OFF
GROUND DISTANCE Z5: Target	Self-reset
GROUND DISTANCE Z5: Events	Disabled

POWER SWING DETECT [GROUP 1]

Function	Disabled
Source	SRC 1 (SRC 1)

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DEVICE DEFINITION

DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000458  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05  
 DESCRIPTION: PACO B2  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

POWER SWING DETECT [GROUP 1] (continued from last page)

Shape	Mho Shape
Mode	Two Step
Supv	0.600 pu
Fwd Reach	50.00 ohms
Quad Fwd Mid	60.00 ohms
Quad Fwd Out	70.00 ohms
Fwd Rca	75 deg
Rev Reach	50.00 ohms
Quad Rev Mid	60.00 ohms
Quad Rev Out	70.00 ohms
Rev Rca	75 deg
Outer Limit Angle	120 deg
Middle Limit Angle	90 deg
Inner Limit Angle	60 deg
Outer Rgt Bld	100.00 ohms
Outer Lft Bld	100.00 ohms
Midle Rgt Bld	100.00 ohms
Midle Lft Bld	100.00 ohms
Inner Rgt Bld	100.00 ohms
Inner Lft Bld	100.00 ohms
Delay 1 Pickup	0.030 s
Delay 1 Reset	0.050 s
Delay 2 Pickup	0.017 s
Delay 3 Pickup	0.009 s
Delay 4 Pickup	0.017 s
Seal-In Delay	0.400 s
Trip Mode	Delayed
Block	OFF
Target	Self-reset
Event	Disabled

LOAD ENCROACHMENT [GROUP 1]

Function	Disabled
Source	SRC 1 (SRC 1)
Min Volt	0.250 pu
Reach	1.00 ohms
Angle	30 deg
Pickup Delay	0.000 s
Reset Delay	0.000 s
Block	OFF
Target	Self-reset
Events	Disabled

PHASE CURRENT

PHASE TOC [GROUP 1]

PHASE TOC1: Function	Disabled
PHASE TOC1: Signal Source	SRC 1 (SRC 1)
PHASE TOC1: Input	Phasor
PHASE TOC1: Pickup	1.000 pu
PHASE TOC1: Curve	IEEE Mod Inv
PHASE TOC1: TD Multiplier	1.00
PHASE TOC1: Reset	Instantaneous
PHASE TOC1: Voltage Restraint	Disabled
PHASE TOC1: Block A	OFF
PHASE TOC1: Block B	OFF
PHASE TOC1: Block C	OFF
PHASE TOC1: Target	Self-reset
PHASE TOC1: Events	Disabled
PHASE TOC2: Function	Disabled
PHASE TOC2: Signal Source	SRC 1 (SRC 1)
PHASE TOC2: Input	Phasor
PHASE TOC2: Pickup	1.000 pu
PHASE TOC2: Curve	IEEE Mod Inv
PHASE TOC2: TD Multiplier	1.00
PHASE TOC2: Reset	Instantaneous
PHASE TOC2: Voltage Restraint	Disabled
PHASE TOC2: Block A	OFF
PHASE TOC2: Block B	OFF
PHASE TOC2: Block C	OFF
PHASE TOC2: Target	Self-reset
PHASE TOC2: Events	Disabled

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 VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B2\SE LMO BACKUP DEJADO PS2 PACO B02\_06082020\

## DEVICE DEFINITION

## DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
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 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05  
 DESCRIPTION: PACO B2  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

PHASE IOC [GROUP 1]

PHASE IOC1: Function	Disabled
PHASE IOC1: Source	SRC 1 (SRC 1)
PHASE IOC1: Pickup	1.000 pu
PHASE IOC1: Delay	0.00 s
PHASE IOC1: Reset Delay	0.00 s
PHASE IOC1: Block A	OFF
PHASE IOC1: Block B	OFF
PHASE IOC1: Block C	OFF
PHASE IOC1: Target	Self-reset
PHASE IOC1: Events	Disabled
PHASE IOC2: Function	Disabled
PHASE IOC2: Source	SRC 1 (SRC 1)
PHASE IOC2: Pickup	1.000 pu
PHASE IOC2: Delay	0.00 s
PHASE IOC2: Reset Delay	0.00 s
PHASE IOC2: Block A	OFF
PHASE IOC2: Block B	OFF
PHASE IOC2: Block C	OFF
PHASE IOC2: Target	Self-reset
PHASE IOC2: Events	Disabled

PHASE DIRECTIONAL [GROUP 1]

PHASE DIR1: Function	Disabled
PHASE DIR1: Source	SRC 1 (SRC 1)
PHASE DIR1: Block	OFF
PHASE DIR1: ECA	30 deg
PHASE DIR1: Pol V Threshold	0.700 pu
PHASE DIR1: Block when V Mem Exp	No
PHASE DIR1: Target	Self-reset
PHASE DIR1: Events	Disabled
PHASE DIR2: Function	Disabled
PHASE DIR2: Source	SRC 1 (SRC 1)
PHASE DIR2: Block	OFF
PHASE DIR2: ECA	30 deg
PHASE DIR2: Pol V Threshold	0.700 pu
PHASE DIR2: Block when V Mem Exp	No
PHASE DIR2: Target	Self-reset
PHASE DIR2: Events	Disabled

## NEUTRAL CURRENT

NEUTRAL TOC [GROUP 1]

NEUTRAL TOC1: Function	Enabled
NEUTRAL TOC1: Source	SRC 1 (SRC 1)
NEUTRAL TOC1: Input	Phasor
NEUTRAL TOC1: Pickup	0.300 pu
NEUTRAL TOC1: Curve	IEC Curve B
NEUTRAL TOC1: TD Multiplier	0.40
NEUTRAL TOC1: Reset	Instantaneous
NEUTRAL TOC1: Block	NTRL DIR OC1 REV
NEUTRAL TOC1: Target	Latched
NEUTRAL TOC1: Events	Enabled
NEUTRAL TOC2: Function	Disabled
NEUTRAL TOC2: Source	SRC 1 (SRC 1)
NEUTRAL TOC2: Input	Phasor
NEUTRAL TOC2: Pickup	1.000 pu
NEUTRAL TOC2: Curve	IEEE Mod Inv
NEUTRAL TOC2: TD Multiplier	1.00
NEUTRAL TOC2: Reset	Instantaneous
NEUTRAL TOC2: Block	OFF
NEUTRAL TOC2: Target	Self-reset
NEUTRAL TOC2: Events	Disabled

NEUTRAL IOC [GROUP 1]

NEUTRAL IOC1: Function	Enabled
NEUTRAL IOC1: Source	SRC 1 (SRC 1)
NEUTRAL IOC1: Pickup	3.300 pu
NEUTRAL IOC1: Delay	0.00 s
NEUTRAL IOC1: Reset Delay	0.00 s
NEUTRAL IOC1: Block	NTRL DIR OC1 REV
NEUTRAL IOC1: Target	Latched

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## DEVICE DEFINITION

## DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67

VERSION: 5.5X

UR SERIAL NUMBER: AABC08000458

SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05

DESCRIPTION: PACO B2

TEXT COLOR

ASSOCIATED DEVICE: (NONE)

NEUTRAL IOC [GROUP 1] (continued from last page)

NEUTRAL IOC1: Events	Enabled
NEUTRAL IOC2: Function	Disabled
NEUTRAL IOC2: Source	SRC 1 (SRC 1)
NEUTRAL IOC2: Pickup	1.000 pu
NEUTRAL IOC2: Delay	0.00 s
NEUTRAL IOC2: Reset Delay	0.00 s
NEUTRAL IOC2: Block	OFF
NEUTRAL IOC2: Target	Self-reset
NEUTRAL IOC2: Events	Disabled

NEUTRAL DIRECTIONAL OC [GROUP 1]

NEUTRAL DIR OC1: Function	Enabled
NEUTRAL DIR OC1: Source	SRC 1 (SRC 1)
NEUTRAL DIR OC1: Polarizing	Voltage
NEUTRAL DIR OC1: Polarizing Volt	Calculated V0
NEUTRAL DIR OC1: Op Current	Calculated 3I0
NEUTRAL DIR OC1: POS SEQ Restraint	0.063
NEUTRAL DIR OC1: Offset	0.00 ohms
NEUTRAL DIR OC1: Forward ECA	75 ° Lag
NEUTRAL DIR OC1: Forward Limit Angle	85 deg
NEUTRAL DIR OC1: Forward Pickup	0.080 pu
NEUTRAL DIR OC1: Reverse Limit Angle	85 deg
NEUTRAL DIR OC1: Reverse Pickup	0.080 pu
NEUTRAL DIR OC1: Block	FALLA POT On (VO1)
NEUTRAL DIR OC1: Target	Latched
NEUTRAL DIR OC1: Events	Enabled
NEUTRAL DIR OC2: Function	Disabled
NEUTRAL DIR OC2: Source	SRC 1 (SRC 1)
NEUTRAL DIR OC2: Polarizing	Voltage
NEUTRAL DIR OC2: Polarizing Volt	Calculated V0
NEUTRAL DIR OC2: Op Current	Calculated 3I0
NEUTRAL DIR OC2: POS SEQ Restraint	0.063
NEUTRAL DIR OC2: Offset	0.00 ohms
NEUTRAL DIR OC2: Forward ECA	75 ° Lag
NEUTRAL DIR OC2: Forward Limit Angle	90 deg
NEUTRAL DIR OC2: Forward Pickup	0.050 pu
NEUTRAL DIR OC2: Reverse Limit Angle	90 deg
NEUTRAL DIR OC2: Reverse Pickup	0.050 pu
NEUTRAL DIR OC2: Block	OFF
NEUTRAL DIR OC2: Target	Self-reset
NEUTRAL DIR OC2: Events	Disabled

WATTMETRIC GROUND FAULT [GROUP 1]

WATTMETRIC GND FLT 1: Function	Disabled
WATTMETRIC GND FLT 1: Source	SRC 1 (SRC 1)
WATTMETRIC GND FLT 1: Voltage	Calculated VN
WATTMETRIC GND FLT 1: OV Pickup	0.20 pu
WATTMETRIC GND FLT 1: Current	Calculated IN
WATTMETRIC GND FLT 1: OC Pickup	0.060 pu
WATTMETRIC GND FLT 1: OC Pickup Delay	0.20 s
WATTMETRIC GND FLT 1: Power Pickup	0.100 pu
WATTMETRIC GND FLT 1: Ref Power	0.500 pu
WATTMETRIC GND FLT 1: ECA	0 ° Lag
WATTMETRIC GND FLT 1: Power Pickup Delay	0.20 s
WATTMETRIC GND FLT 1: Curve	Definite Time
WATTMETRIC GND FLT 1: Multiplier	1.00 s
WATTMETRIC GND FLT 1: Block	OFF
WATTMETRIC GND FLT 1: Target	Self-reset
WATTMETRIC GND FLT 1: Events	Disabled
WATTMETRIC GND FLT 2: Function	Disabled
WATTMETRIC GND FLT 2: Source	SRC 1 (SRC 1)
WATTMETRIC GND FLT 2: Voltage	Calculated VN
WATTMETRIC GND FLT 2: OV Pickup	0.20 pu
WATTMETRIC GND FLT 2: Current	Calculated IN
WATTMETRIC GND FLT 2: OC Pickup	0.060 pu
WATTMETRIC GND FLT 2: OC Pickup Delay	0.20 s
WATTMETRIC GND FLT 2: Power Pickup	0.100 pu
WATTMETRIC GND FLT 2: Ref Power	0.500 pu
WATTMETRIC GND FLT 2: ECA	0 ° Lag
WATTMETRIC GND FLT 2: Power Pickup Delay	0.20 s
WATTMETRIC GND FLT 2: Curve	Definite Time

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DEVICE DEFINITION

DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
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 ASSOCIATED DEVICE: (NONE)

WATTMETRIC GROUND FAULT [GROUP 1] (continued from last page)

WATTMETRIC GND FLT 2: Multiplier 1.00 s  
 WATTMETRIC GND FLT 2: Block OFF  
 WATTMETRIC GND FLT 2: Target Self-reset  
 WATTMETRIC GND FLT 2: Events Disabled

GROUND CURRENT

GROUND TOC [GROUP 1]

GROUND TOC1: Function Disabled  
 GROUND TOC1: Source SRC 1 (SRC 1)  
 GROUND TOC1: Input Phasor  
 GROUND TOC1: Pickup 1.000 pu  
 GROUND TOC1: Curve IEEE Mod Inv  
 GROUND TOC1: TD Multiplier 1.00  
 GROUND TOC1: Reset Instantaneous  
 GROUND TOC1: Block OFF  
 GROUND TOC1: Target Self-reset  
 GROUND TOC1: Events Disabled  
 GROUND TOC2: Function Disabled  
 GROUND TOC2: Source SRC 1 (SRC 1)  
 GROUND TOC2: Input Phasor  
 GROUND TOC2: Pickup 1.000 pu  
 GROUND TOC2: Curve IEEE Mod Inv  
 GROUND TOC2: TD Multiplier 1.00  
 GROUND TOC2: Reset Instantaneous  
 GROUND TOC2: Block OFF  
 GROUND TOC2: Target Self-reset  
 GROUND TOC2: Events Disabled

GROUND IOC [GROUP 1]

GROUND IOC1: Function Disabled  
 GROUND IOC1: Source SRC 1 (SRC 1)  
 GROUND IOC1: Pickup 1.000 pu  
 GROUND IOC1: Delay 0.00 s  
 GROUND IOC1: Reset Delay 0.00 s  
 GROUND IOC1: Block OFF  
 GROUND IOC1: Target Self-reset  
 GROUND IOC1: Events Disabled  
 GROUND IOC2: Function Disabled  
 GROUND IOC2: Source SRC 1 (SRC 1)  
 GROUND IOC2: Pickup 1.000 pu  
 GROUND IOC2: Delay 0.00 s  
 GROUND IOC2: Reset Delay 0.00 s  
 GROUND IOC2: Block OFF  
 GROUND IOC2: Target Self-reset  
 GROUND IOC2: Events Disabled

NEGATIVE SEQUENCE CURRENT

NEGATIVE SEQUENCE TOC [GROUP 1]

NEGATIVE SEQ TOC1: Function Disabled  
 NEGATIVE SEQ TOC1: Source SRC 1 (SRC 1)  
 NEGATIVE SEQ TOC1: Pickup 1.000 pu  
 NEGATIVE SEQ TOC1: Curve IEEE Mod Inv  
 NEGATIVE SEQ TOC1: TD Multiplier 1.00  
 NEGATIVE SEQ TOC1: Reset Instantaneous  
 NEGATIVE SEQ TOC1: Block OFF  
 NEGATIVE SEQ TOC1: Target Self-reset  
 NEGATIVE SEQ TOC1: Events Disabled  
 NEGATIVE SEQ TOC2: Function Disabled  
 NEGATIVE SEQ TOC2: Source SRC 1 (SRC 1)  
 NEGATIVE SEQ TOC2: Pickup 1.000 pu  
 NEGATIVE SEQ TOC2: Curve IEEE Mod Inv  
 NEGATIVE SEQ TOC2: TD Multiplier 1.00  
 NEGATIVE SEQ TOC2: Reset Instantaneous  
 NEGATIVE SEQ TOC2: Block OFF  
 NEGATIVE SEQ TOC2: Target Self-reset  
 NEGATIVE SEQ TOC2: Events Disabled

NEGATIVE SEQUENCE IOC [GROUP 1]

NEGATIVE SEQ IOC1: Function Disabled  
 NEGATIVE SEQ IOC1: Source SRC 1 (SRC 1)  
 NEGATIVE SEQ IOC1: Pickup 1.000 pu

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## DEVICE DEFINITION

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 ASSOCIATED DEVICE: (NONE)

NEGATIVE SEQUENCE IOC [GROUP 1] (continued from last page)

NEGATIVE SEQ IOC1: Delay	0.00 s
NEGATIVE SEQ IOC1: Reset Delay	0.00 s
NEGATIVE SEQ IOC1: Block	OFF
NEGATIVE SEQ IOC1: Target	Self-reset
NEGATIVE SEQ IOC1: Events	Disabled
NEGATIVE SEQ IOC2: Function	Disabled
NEGATIVE SEQ IOC2: Source	SRC 1 (SRC 1)
NEGATIVE SEQ IOC2: Pickup	1.000 pu
NEGATIVE SEQ IOC2: Delay	0.00 s
NEGATIVE SEQ IOC2: Reset Delay	0.00 s
NEGATIVE SEQ IOC2: Block	OFF
NEGATIVE SEQ IOC2: Target	Self-reset
NEGATIVE SEQ IOC2: Events	Disabled

NEGATIVE SEQUENCE DIRECTIONAL OC [GROUP 1]

NEGATIVE SEQ DIR OC1: Function	Disabled
NEGATIVE SEQ DIR OC1: Source	SRC 1 (SRC 1)
NEGATIVE SEQ DIR OC1: Offset	0.00 ohms
NEGATIVE SEQ DIR OC1: Type	Neg Sequence
NEGATIVE SEQ DIR OC1: POS SEQ Restraint	0.063
NEGATIVE SEQ DIR OC1: Forward ECA	75 ° Lag
NEGATIVE SEQ DIR OC1: Forward Limit Angle	90 deg
NEGATIVE SEQ DIR OC1: Forward Pickup	0.050 pu
NEGATIVE SEQ DIR OC1: Reverse Limit Angle	90 deg
NEGATIVE SEQ DIR OC1: Reverse Pickup	0.050 pu
NEGATIVE SEQ DIR OC1: Block	OFF
NEGATIVE SEQ DIR OC1: Target	Self-reset
NEGATIVE SEQ DIR OC1: Events	Disabled
NEGATIVE SEQ DIR OC2: Function	Disabled
NEGATIVE SEQ DIR OC2: Source	SRC 1 (SRC 1)
NEGATIVE SEQ DIR OC2: Offset	0.00 ohms
NEGATIVE SEQ DIR OC2: Type	Neg Sequence
NEGATIVE SEQ DIR OC2: POS SEQ Restraint	0.063
NEGATIVE SEQ DIR OC2: Forward ECA	75 ° Lag
NEGATIVE SEQ DIR OC2: Forward Limit Angle	90 deg
NEGATIVE SEQ DIR OC2: Forward Pickup	0.050 pu
NEGATIVE SEQ DIR OC2: Reverse Limit Angle	90 deg
NEGATIVE SEQ DIR OC2: Reverse Pickup	0.050 pu
NEGATIVE SEQ DIR OC2: Block	OFF
NEGATIVE SEQ DIR OC2: Target	Self-reset
NEGATIVE SEQ DIR OC2: Events	Disabled

BREAKER FAILURE [GROUP 1]

BF 1: Function	Disabled
BF 1: Mode	3-Pole
BF 1: Source	SRC 1 (SRC 1)
BF 1: Current Supervision	Yes
BF 1: Use Seal-In	Yes
BF 1: Three Pole Initiate	OFF
BF 1: Block	OFF
BF 1: Phase Current Supv Pickup	1.050 pu
BF 1: Neutral Current Supv Pickup	1.050 pu
BF 1: Use Timer 1	Yes
BF 1: Timer 1 Pickup Delay	0.000 s
BF 1: Use Timer 2	Yes
BF 1: Timer 2 Pickup Delay	0.000 s
BF 1: Use Timer 3	Yes
BF 1: Timer 3 Pickup Delay	0.000 s
BF 1: Breaker Pos1 Phase A/3P	OFF
BF 1: Breaker Pos2 Phase A/3P	OFF
BF 1: Breaker Test On	OFF
BF 1: Phase Current HiSet Pickup	1.050 pu
BF 1: Neutral Current HiSet Pickup	1.050 pu
BF 1: Phase Current LoSet Pickup	1.050 pu
BF 1: Neutral Current LoSet Pickup	1.050 pu
BF 1: LoSet Time Delay	0.000 s
BF 1: Trip Dropout Delay	0.000 s
BF 1: Target	Self-reset
BF 1: Events	Disabled
BF 1: Phase A Initiate	OFF
BF 1: Phase B Initiate	OFF



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## DEVICE DEFINITION

## DEVICES

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 ASSOCIATED DEVICE: (NONE)

BREAKER FAILURE [GROUP 1] (continued from last page)

BF 1: Phase C Initiate	OFF
BF 1: Breaker Pos1 Phase B	OFF
BF 1: Breaker Pos1 Phase C	OFF
BF 1: Breaker Pos2 Phase B	OFF
BF 1: Breaker Pos2 Phase C	OFF
BF 2: Function	Disabled
BF 2: Mode	3-Pole
BF 2: Source	SRC 1 (SRC 1)
BF 2: Current Supervision	Yes
BF 2: Use Seal-In	Yes
BF 2: Three Pole Initiate	OFF
BF 2: Block	OFF
BF 2: Phase Current Supv Pickup	1.050 pu
BF 2: Neutral Current Supv Pickup	1.050 pu
BF 2: Use Timer 1	Yes
BF 2: Timer 1 Pickup Delay	0.000 s
BF 2: Use Timer 2	Yes
BF 2: Timer 2 Pickup Delay	0.000 s
BF 2: Use Timer 3	Yes
BF 2: Timer 3 Pickup Delay	0.000 s
BF 2: Breaker Pos1 Phase A/3P	OFF
BF 2: Breaker Pos2 Phase A/3P	OFF
BF 2: Breaker Test On	OFF
BF 2: Phase Current HiSet Pickup	1.050 pu
BF 2: Neutral Current HiSet Pickup	1.050 pu
BF 2: Phase Current LoSet Pickup	1.050 pu
BF 2: Neutral Current LoSet Pickup	1.050 pu
BF 2: LoSet Time Delay	0.000 s
BF 2: Trip Dropout Delay	0.000 s
BF 2: Target	Self-reset
BF 2: Events	Disabled
BF 2: Phase A Initiate	OFF
BF 2: Phase B Initiate	OFF
BF 2: Phase C Initiate	OFF
BF 2: Breaker Pos1 Phase B	OFF
BF 2: Breaker Pos1 Phase C	OFF
BF 2: Breaker Pos2 Phase B	OFF
BF 2: Breaker Pos2 Phase C	OFF

## VOLTAGE ELEMENTS

PHASE UV [GROUP 1]

PHASE UV1: Function	Disabled
PHASE UV1: Signal Source	SRC 1 (SRC 1)
PHASE UV1: Mode	Phase to Ground
PHASE UV1: Pickup	1.000 pu
PHASE UV1: Curve	Definite Time
PHASE UV1: Delay	1.00 s
PHASE UV1: Minimum Voltage	0.100 pu
PHASE UV1: Block	OFF
PHASE UV1: Target	Self-reset
PHASE UV1: Events	Disabled
PHASE UV2: Function	Disabled
PHASE UV2: Signal Source	SRC 1 (SRC 1)
PHASE UV2: Mode	Phase to Ground
PHASE UV2: Pickup	1.000 pu
PHASE UV2: Curve	Definite Time
PHASE UV2: Delay	1.00 s
PHASE UV2: Minimum Voltage	0.100 pu
PHASE UV2: Block	OFF
PHASE UV2: Target	Self-reset
PHASE UV2: Events	Disabled
PHASE UV3: Function	Disabled
PHASE UV3: Signal Source	SRC 1 (SRC 1)
PHASE UV3: Mode	Phase to Ground
PHASE UV3: Pickup	1.000 pu
PHASE UV3: Curve	Definite Time
PHASE UV3: Delay	1.00 s
PHASE UV3: Minimum Voltage	0.100 pu
PHASE UV3: Block	OFF
PHASE UV3: Target	Self-reset
PHASE UV3: Events	Disabled

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## DEVICE DEFINITION

## DEVICES

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 DESCRIPTION: PACO B2  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

PHASE OV [GROUP 1]

PHASE OV1: Function	Disabled
PHASE OV1: Source	SRC 1 (SRC 1)
PHASE OV1: Pickup	1.000 pu
PHASE OV1: Delay	1.00 s
PHASE OV1: Reset Delay	1.00 s
PHASE OV1: Block	OFF
PHASE OV1: Target	Self-reset
PHASE OV1: Events	Disabled

NEUTRAL OV [GROUP 1]

NEUTRAL OV 1: Function	Disabled
NEUTRAL OV 1: Source	SRC 1 (SRC 1)
NEUTRAL OV 1: Pickup	0.300 pu
NEUTRAL OV 1: Curve	Definite Time
NEUTRAL OV 1: Pickup Delay	1.00 s
NEUTRAL OV 1: Reset Delay	1.00 s
NEUTRAL OV 1: Block	OFF
NEUTRAL OV 1: Target	Self-reset
NEUTRAL OV 1: Events	Disabled
NEUTRAL OV 2: Function	Disabled
NEUTRAL OV 2: Source	SRC 1 (SRC 1)
NEUTRAL OV 2: Pickup	0.300 pu
NEUTRAL OV 2: Curve	Definite Time
NEUTRAL OV 2: Pickup Delay	1.00 s
NEUTRAL OV 2: Reset Delay	1.00 s
NEUTRAL OV 2: Block	OFF
NEUTRAL OV 2: Target	Self-reset
NEUTRAL OV 2: Events	Disabled
NEUTRAL OV 3: Function	Disabled
NEUTRAL OV 3: Source	SRC 1 (SRC 1)
NEUTRAL OV 3: Pickup	0.300 pu
NEUTRAL OV 3: Curve	Definite Time
NEUTRAL OV 3: Pickup Delay	1.00 s
NEUTRAL OV 3: Reset Delay	1.00 s
NEUTRAL OV 3: Block	OFF
NEUTRAL OV 3: Target	Self-reset
NEUTRAL OV 3: Events	Disabled

NEGATIVE SEQUENCE OV [GROUP 1]

NEG SEQ OV1: Function	Disabled
NEG SEQ OV1: Source	SRC 1 (SRC 1)
NEG SEQ OV1: Pickup	0.300 pu
NEG SEQ OV1: Pickup Delay	0.50 s
NEG SEQ OV1: Reset Delay	0.50 s
NEG SEQ OV1: Block	OFF
NEG SEQ OV1: Target	Self-reset
NEG SEQ OV1: Events	Disabled
NEG SEQ OV2: Function	Disabled
NEG SEQ OV2: Source	SRC 1 (SRC 1)
NEG SEQ OV2: Pickup	0.300 pu
NEG SEQ OV2: Pickup Delay	0.50 s
NEG SEQ OV2: Reset Delay	0.50 s
NEG SEQ OV2: Block	OFF
NEG SEQ OV2: Target	Self-reset
NEG SEQ OV2: Events	Disabled
NEG SEQ OV3: Function	Disabled
NEG SEQ OV3: Source	SRC 1 (SRC 1)
NEG SEQ OV3: Pickup	0.300 pu
NEG SEQ OV3: Pickup Delay	0.50 s
NEG SEQ OV3: Reset Delay	0.50 s
NEG SEQ OV3: Block	OFF
NEG SEQ OV3: Target	Self-reset
NEG SEQ OV3: Events	Disabled

AUXILIARY UV [GROUP 1]

AUXILIARY UV 1: Function	Disabled
AUXILIARY UV 1: Source	SRC 1 (SRC 1)
AUXILIARY UV 1: Pickup	0.700 pu
AUXILIARY UV 1: Curve	Definite Time
AUXILIARY UV 1: Delay	1.00 s

SE LMO BACKUP DEJADO PS2 PACO B02\_06082020.URS  
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 VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B2\SE LMO BACKUP DEJADO PS2 PACO B02\_06082020\

## DEVICE DEFINITION

## DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000458  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05  
 DESCRIPTION: PACO B2  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

AUXILIARY UV [GROUP 1] (continued from last page)

AUXILIARY UV 1: Minimum Voltage	0.100 pu
AUXILIARY UV 1: Block	OFF
AUXILIARY UV 1: Target	Self-reset
AUXILIARY UV 1: Events	Disabled

AUXILIARY OV [GROUP 1]

AUXILIARY OV 1: Function	Disabled
AUXILIARY OV 1: Source	SRC 1 (SRC 1)
AUXILIARY OV 1: Pickup	0.300 pu
AUXILIARY OV 1: Pickup Delay	1.00 s
AUXILIARY OV 1: Reset Delay	1.00 s
AUXILIARY OV 1: Block	OFF
AUXILIARY OV 1: Target	Self-reset
AUXILIARY OV 1: Events	Disabled

## CONTROL ELEMENTS

TRIP BUS

Trip Bus 1 Function	Enabled
Trip Bus 1 Block	OFF
Trip Bus 1 Pickup Delay	0.00 s
Trip Bus 1 Reset Delay	0.00 s
Trip Bus 1 Input 1	FALLAS ZONAS On (VO3)
Trip Bus 1 Input 2	OFF
Trip Bus 1 Input 3	OFF
Trip Bus 1 Input 4	OFF
Trip Bus 1 Input 5	OFF
Trip Bus 1 Input 6	OFF
Trip Bus 1 Input 7	OFF
Trip Bus 1 Input 8	OFF
Trip Bus 1 Input 9	OFF
Trip Bus 1 Input 10	OFF
Trip Bus 1 Input 11	OFF
Trip Bus 1 Input 12	OFF
Trip Bus 1 Input 13	OFF
Trip Bus 1 Input 14	OFF
Trip Bus 1 Input 15	OFF
Trip Bus 1 Input 16	OFF
Trip Bus 1 Latching	Disabled
Trip Bus 1 Reset	OFF
Trip Bus 1 Target	Self-reset
Trip Bus 1 Events	Enabled
Trip Bus 2 Function	Disabled
Trip Bus 2 Block	OFF
Trip Bus 2 Pickup Delay	0.00 s
Trip Bus 2 Reset Delay	0.00 s
Trip Bus 2 Input 1	OFF
Trip Bus 2 Input 2	OFF
Trip Bus 2 Input 3	OFF
Trip Bus 2 Input 4	OFF
Trip Bus 2 Input 5	OFF
Trip Bus 2 Input 6	OFF
Trip Bus 2 Input 7	OFF
Trip Bus 2 Input 8	OFF
Trip Bus 2 Input 9	OFF
Trip Bus 2 Input 10	OFF
Trip Bus 2 Input 11	OFF
Trip Bus 2 Input 12	OFF
Trip Bus 2 Input 13	OFF
Trip Bus 2 Input 14	OFF
Trip Bus 2 Input 15	OFF
Trip Bus 2 Input 16	OFF
Trip Bus 2 Latching	Disabled
Trip Bus 2 Reset	OFF
Trip Bus 2 Target	Self-reset
Trip Bus 2 Events	Disabled
Trip Bus 3 Function	Disabled
Trip Bus 3 Block	OFF
Trip Bus 3 Pickup Delay	0.00 s
Trip Bus 3 Reset Delay	0.00 s
Trip Bus 3 Input 1	OFF
Trip Bus 3 Input 2	OFF

SE LMO BACKUP DEJADO PS2 PACO B02\_06082020.URS  
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 VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B2\SE LMO BACKUP DEJADO PS2 PACO B02\_06082020\

## DEVICE DEFINITION

## DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000458  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05  
 DESCRIPTION: PACO B2  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

## TRIP BUS (continued from last page)

Trip Bus 3 Input 3	OFF
Trip Bus 3 Input 4	OFF
Trip Bus 3 Input 5	OFF
Trip Bus 3 Input 6	OFF
Trip Bus 3 Input 7	OFF
Trip Bus 3 Input 8	OFF
Trip Bus 3 Input 9	OFF
Trip Bus 3 Input 10	OFF
Trip Bus 3 Input 11	OFF
Trip Bus 3 Input 12	OFF
Trip Bus 3 Input 13	OFF
Trip Bus 3 Input 14	OFF
Trip Bus 3 Input 15	OFF
Trip Bus 3 Input 16	OFF
Trip Bus 3 Latching	Disabled
Trip Bus 3 Reset	OFF
Trip Bus 3 Target	Self-reset
Trip Bus 3 Events	Disabled
Trip Bus 4 Function	Disabled
Trip Bus 4 Block	OFF
Trip Bus 4 Pickup Delay	0.00 s
Trip Bus 4 Reset Delay	0.00 s
Trip Bus 4 Input 1	OFF
Trip Bus 4 Input 2	OFF
Trip Bus 4 Input 3	OFF
Trip Bus 4 Input 4	OFF
Trip Bus 4 Input 5	OFF
Trip Bus 4 Input 6	OFF
Trip Bus 4 Input 7	OFF
Trip Bus 4 Input 8	OFF
Trip Bus 4 Input 9	OFF
Trip Bus 4 Input 10	OFF
Trip Bus 4 Input 11	OFF
Trip Bus 4 Input 12	OFF
Trip Bus 4 Input 13	OFF
Trip Bus 4 Input 14	OFF
Trip Bus 4 Input 15	OFF
Trip Bus 4 Input 16	OFF
Trip Bus 4 Latching	Disabled
Trip Bus 4 Reset	OFF
Trip Bus 4 Target	Self-reset
Trip Bus 4 Events	Disabled
Trip Bus 5 Function	Disabled
Trip Bus 5 Block	OFF
Trip Bus 5 Pickup Delay	0.00 s
Trip Bus 5 Reset Delay	0.00 s
Trip Bus 5 Input 1	OFF
Trip Bus 5 Input 2	OFF
Trip Bus 5 Input 3	OFF
Trip Bus 5 Input 4	OFF
Trip Bus 5 Input 5	OFF
Trip Bus 5 Input 6	OFF
Trip Bus 5 Input 7	OFF
Trip Bus 5 Input 8	OFF
Trip Bus 5 Input 9	OFF
Trip Bus 5 Input 10	OFF
Trip Bus 5 Input 11	OFF
Trip Bus 5 Input 12	OFF
Trip Bus 5 Input 13	OFF
Trip Bus 5 Input 14	OFF
Trip Bus 5 Input 15	OFF
Trip Bus 5 Input 16	OFF
Trip Bus 5 Latching	Disabled
Trip Bus 5 Reset	OFF
Trip Bus 5 Target	Self-reset
Trip Bus 5 Events	Disabled
Trip Bus 6 Function	Disabled
Trip Bus 6 Block	OFF
Trip Bus 6 Pickup Delay	0.00 s
Trip Bus 6 Reset Delay	0.00 s
Trip Bus 6 Input 1	OFF

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 VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B2\SE LMO BACKUP DEJADO PS2 PACO B02\_06082020\

## DEVICE DEFINITION

## DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000458  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05  
 DESCRIPTION: PACO B2  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

TRIP BUS (continued from last page)

Trip Bus 6 Input 2	OFF
Trip Bus 6 Input 3	OFF
Trip Bus 6 Input 4	OFF
Trip Bus 6 Input 5	OFF
Trip Bus 6 Input 6	OFF
Trip Bus 6 Input 7	OFF
Trip Bus 6 Input 8	OFF
Trip Bus 6 Input 9	OFF
Trip Bus 6 Input 10	OFF
Trip Bus 6 Input 11	OFF
Trip Bus 6 Input 12	OFF
Trip Bus 6 Input 13	OFF
Trip Bus 6 Input 14	OFF
Trip Bus 6 Input 15	OFF
Trip Bus 6 Input 16	OFF
Trip Bus 6 Latching	Disabled
Trip Bus 6 Reset	OFF
Trip Bus 6 Target	Self-reset
Trip Bus 6 Events	Disabled

SETTING GROUPS

Function	Disabled
Block	OFF
Group 2 Activate On	OFF
Group 3 Activate On	OFF
Group 4 Activate On	OFF
Group 5 Activate On	OFF
Group 6 Activate On	OFF
Group 1 Name	
Group 2 Name	
Group 3 Name	
Group 4 Name	
Group 5 Name	
Group 6 Name	
Events	Disabled

SELECTOR SWITCHES

SELECTOR SWITCH 1: Function	Disabled
SELECTOR SWITCH 1: Full Range	7
SELECTOR SWITCH 1: Timeout	5.0 s
SELECTOR SWITCH 1: Step-Up	OFF
SELECTOR SWITCH 1: Step-Up Mode	Time-out
SELECTOR SWITCH 1: Acknowledge	OFF
SELECTOR SWITCH 1: 3Bit A0	OFF
SELECTOR SWITCH 1: 3Bit A1	OFF
SELECTOR SWITCH 1: 3Bit A2	OFF
SELECTOR SWITCH 1: 3Bit Mode	Time-out
SELECTOR SWITCH 1: 3Bit Ack	OFF
SELECTOR SWITCH 1: Power-Up Mode	Restore
SELECTOR SWITCH 1: Targets	Self-reset
SELECTOR SWITCH 1: Events	Disabled
SELECTOR SWITCH 2: Function	Disabled
SELECTOR SWITCH 2: Full Range	7
SELECTOR SWITCH 2: Timeout	5.0 s
SELECTOR SWITCH 2: Step-Up	OFF
SELECTOR SWITCH 2: Step-Up Mode	Time-out
SELECTOR SWITCH 2: Acknowledge	OFF
SELECTOR SWITCH 2: 3Bit A0	OFF
SELECTOR SWITCH 2: 3Bit A1	OFF
SELECTOR SWITCH 2: 3Bit A2	OFF
SELECTOR SWITCH 2: 3Bit Mode	Time-out
SELECTOR SWITCH 2: 3Bit Ack	OFF
SELECTOR SWITCH 2: Power-Up Mode	Restore
SELECTOR SWITCH 2: Targets	Self-reset
SELECTOR SWITCH 2: Events	Disabled

TRIP OUTPUT

Trip Mode	3 Pole Only
Trip 3-Pole Input1	OFF
Trip 3-Pole Input2	OFF
Trip 3-Pole Input3	OFF

SE LMO BACKUP DEJADO PS2 PACO B02\_06082020.URS

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VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B2\SE LMO BACKUP DEJADO PS2 PACO B02\_06082020\

## DEVICE DEFINITION

## DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67

VERSION: 5.5X

UR SERIAL NUMBER: AABC08000458

SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05

DESCRIPTION: PACO B2

TEXT COLOR

ASSOCIATED DEVICE: (NONE)

TRIP OUTPUT (continued from last page)

Trip 3-Pole Input4	OFF
Trip 3-Pole Input5	OFF
Trip 3-Pole Input6	OFF
Trip 1-Pole Input1	OFF
Trip 1-Pole Input2	OFF
Trip 1-Pole Input3	OFF
Trip 1-Pole Input4	OFF
Trip 1-Pole Input5	OFF
Trip 1-Pole Input6	OFF
Trip Reclose Input1	OFF
Trip Reclose Input2	OFF
Trip Reclose Input3	OFF
Trip Reclose Input4	OFF
Trip Reclose Input5	OFF
Trip Reclose Input6	OFF
BKR Phase A Open	LINE PICKUP I<A
BKR Phase B Open	LINE PICKUP I<B
BKR Phase C Open	LINE PICKUP I<C
Trip Force 3-Pole	OFF
Trip Pilot Priority	0.000 s
Reverse Fault	OFF
Trip Delay On Evolving Faults	0.000 s
Trip Events	Enabled

SYNCHROCHECK

SYNCHROCHECK1: Function	Disabled
SYNCHROCHECK1: Block	OFF
SYNCHROCHECK1: V1 Source	SRC 1 (SRC 1)
SYNCHROCHECK1: V2 Source	SRC 2 (SRC 2)
SYNCHROCHECK1: Max Volt Diff	10000 V
SYNCHROCHECK1: Max Angle Diff	30 deg
SYNCHROCHECK1: Max Freq Diff	1.00 Hz
SYNCHROCHECK1: Max Freq Hysteresis	0.06 Hz
SYNCHROCHECK1: Dead Source Select	LV1 and DV2
SYNCHROCHECK1: Dead V1 Max Volt	0.30 pu
SYNCHROCHECK1: Dead V2 Max Volt	0.30 pu
SYNCHROCHECK1: Live V1 Min Volt	0.70 pu
SYNCHROCHECK1: Live V2 Min Volt	0.70 pu
SYNCHROCHECK1: Target	Self-reset
SYNCHROCHECK1: Events	Disabled
SYNCHROCHECK2: Function	Disabled
SYNCHROCHECK2: Block	OFF
SYNCHROCHECK2: V1 Source	SRC 1 (SRC 1)
SYNCHROCHECK2: V2 Source	SRC 2 (SRC 2)
SYNCHROCHECK2: Max Volt Diff	10000 V
SYNCHROCHECK2: Max Angle Diff	30 deg
SYNCHROCHECK2: Max Freq Diff	1.00 Hz
SYNCHROCHECK2: Max Freq Hysteresis	0.06 Hz
SYNCHROCHECK2: Dead Source Select	LV1 and DV2
SYNCHROCHECK2: Dead V1 Max Volt	0.30 pu
SYNCHROCHECK2: Dead V2 Max Volt	0.30 pu
SYNCHROCHECK2: Live V1 Min Volt	0.70 pu
SYNCHROCHECK2: Live V2 Min Volt	0.70 pu
SYNCHROCHECK2: Target	Self-reset
SYNCHROCHECK2: Events	Disabled

DIGITAL ELEMENTS

Digital Element 1 Function	Disabled
Digital Element 1 Name	Dig Element 1
Digital Element 1 Input	OFF
Digital Element 1 Pickup Delay	0.000 s
Digital Element 1 Reset Delay	0.000 s
Digital Element 1 Pickup Led	Enabled
Digital Element 1 Block	OFF
Digital Element 1 Target	Self-reset
Digital Element 1 Events	Disabled
Digital Element 2 Function	Disabled
Digital Element 2 Name	Dig Element 2
Digital Element 2 Input	OFF
Digital Element 2 Pickup Delay	0.000 s
Digital Element 2 Reset Delay	0.000 s

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 VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B2\SE LMO BACKUP DEJADO PS2 PACO B02\_06082020\

## DEVICE DEFINITION

## DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
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 DESCRIPTION: PACO B2  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

## DIGITAL ELEMENTS (continued from last page)

Digital Element 2 Pickup Led	Enabled
Digital Element 2 Block	OFF
Digital Element 2 Target	Self-reset
Digital Element 2 Events	Disabled
Digital Element 3 Function	Disabled
Digital Element 3 Name	Dig Element 3
Digital Element 3 Input	OFF
Digital Element 3 Pickup Delay	0.000 s
Digital Element 3 Reset Delay	0.000 s
Digital Element 3 Pickup Led	Enabled
Digital Element 3 Block	OFF
Digital Element 3 Target	Self-reset
Digital Element 3 Events	Disabled
Digital Element 4 Function	Disabled
Digital Element 4 Name	Dig Element 4
Digital Element 4 Input	OFF
Digital Element 4 Pickup Delay	0.000 s
Digital Element 4 Reset Delay	0.000 s
Digital Element 4 Pickup Led	Enabled
Digital Element 4 Block	OFF
Digital Element 4 Target	Self-reset
Digital Element 4 Events	Disabled
Digital Element 5 Function	Disabled
Digital Element 5 Name	Dig Element 5
Digital Element 5 Input	OFF
Digital Element 5 Pickup Delay	0.000 s
Digital Element 5 Reset Delay	0.000 s
Digital Element 5 Pickup Led	Enabled
Digital Element 5 Block	OFF
Digital Element 5 Target	Self-reset
Digital Element 5 Events	Disabled
Digital Element 6 Function	Disabled
Digital Element 6 Name	Dig Element 6
Digital Element 6 Input	OFF
Digital Element 6 Pickup Delay	0.000 s
Digital Element 6 Reset Delay	0.000 s
Digital Element 6 Pickup Led	Enabled
Digital Element 6 Block	OFF
Digital Element 6 Target	Self-reset
Digital Element 6 Events	Disabled
Digital Element 7 Function	Disabled
Digital Element 7 Name	Dig Element 7
Digital Element 7 Input	OFF
Digital Element 7 Pickup Delay	0.000 s
Digital Element 7 Reset Delay	0.000 s
Digital Element 7 Pickup Led	Enabled
Digital Element 7 Block	OFF
Digital Element 7 Target	Self-reset
Digital Element 7 Events	Disabled
Digital Element 8 Function	Disabled
Digital Element 8 Name	Dig Element 8
Digital Element 8 Input	OFF
Digital Element 8 Pickup Delay	0.000 s
Digital Element 8 Reset Delay	0.000 s
Digital Element 8 Pickup Led	Enabled
Digital Element 8 Block	OFF
Digital Element 8 Target	Self-reset
Digital Element 8 Events	Disabled
Digital Element 9 Function	Disabled
Digital Element 9 Name	Dig Element 9
Digital Element 9 Input	OFF
Digital Element 9 Pickup Delay	0.000 s
Digital Element 9 Reset Delay	0.000 s
Digital Element 9 Pickup Led	Enabled
Digital Element 9 Block	OFF
Digital Element 9 Target	Self-reset
Digital Element 9 Events	Disabled
Digital Element 10 Function	Disabled
Digital Element 10 Name	Dig Element 10
Digital Element 10 Input	OFF
Digital Element 10 Pickup Delay	0.000 s

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 VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B2\SE LMO BACKUP DEJADO PS2 PACO B02\_06082020\  
 DEVICE DEFINITION  
 DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000458  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05  
 DESCRIPTION: PACO B2  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

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DIGITAL ELEMENTS (continued from last page)

Digital Element 10 Reset Delay	0.000 s
Digital Element 10 Pickup Led	Enabled
Digital Element 10 Block	OFF
Digital Element 10 Target	Self-reset
Digital Element 10 Events	Disabled
Digital Element 11 Function	Disabled
Digital Element 11 Name	Dig Element 11
Digital Element 11 Input	OFF
Digital Element 11 Pickup Delay	0.000 s
Digital Element 11 Reset Delay	0.000 s
Digital Element 11 Pickup Led	Enabled
Digital Element 11 Block	OFF
Digital Element 11 Target	Self-reset
Digital Element 11 Events	Disabled
Digital Element 12 Function	Disabled
Digital Element 12 Name	Dig Element 12
Digital Element 12 Input	OFF
Digital Element 12 Pickup Delay	0.000 s
Digital Element 12 Reset Delay	0.000 s
Digital Element 12 Pickup Led	Enabled
Digital Element 12 Block	OFF
Digital Element 12 Target	Self-reset
Digital Element 12 Events	Disabled
Digital Element 13 Function	Disabled
Digital Element 13 Name	Dig Element 13
Digital Element 13 Input	OFF
Digital Element 13 Pickup Delay	0.000 s
Digital Element 13 Reset Delay	0.000 s
Digital Element 13 Pickup Led	Enabled
Digital Element 13 Block	OFF
Digital Element 13 Target	Self-reset
Digital Element 13 Events	Disabled
Digital Element 14 Function	Disabled
Digital Element 14 Name	Dig Element 14
Digital Element 14 Input	OFF
Digital Element 14 Pickup Delay	0.000 s
Digital Element 14 Reset Delay	0.000 s
Digital Element 14 Pickup Led	Enabled
Digital Element 14 Block	OFF
Digital Element 14 Target	Self-reset
Digital Element 14 Events	Disabled
Digital Element 15 Function	Disabled
Digital Element 15 Name	Dig Element 15
Digital Element 15 Input	OFF
Digital Element 15 Pickup Delay	0.000 s
Digital Element 15 Reset Delay	0.000 s
Digital Element 15 Pickup Led	Enabled
Digital Element 15 Block	OFF
Digital Element 15 Target	Self-reset
Digital Element 15 Events	Disabled
Digital Element 16 Function	Disabled
Digital Element 16 Name	Dig Element 16
Digital Element 16 Input	OFF
Digital Element 16 Pickup Delay	0.000 s
Digital Element 16 Reset Delay	0.000 s
Digital Element 16 Pickup Led	Enabled
Digital Element 16 Block	OFF
Digital Element 16 Target	Self-reset
Digital Element 16 Events	Disabled
Digital Element 17 Function	Disabled
Digital Element 17 Name	Dig Element 17
Digital Element 17 Input	OFF
Digital Element 17 Pickup Delay	0.000 s
Digital Element 17 Reset Delay	0.000 s
Digital Element 17 Pickup Led	Enabled
Digital Element 17 Block	OFF
Digital Element 17 Target	Self-reset
Digital Element 17 Events	Disabled
Digital Element 18 Function	Disabled
Digital Element 18 Name	Dig Element 18
Digital Element 18 Input	OFF



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 VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B2\SE LMO BACKUP DEJADO PS2 PACO B02\_06082020\

DEVICE DEFINITION

DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000458  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05  
 DESCRIPTION: PACO B2  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

DIGITAL ELEMENTS (continued from last page)

Digital Element 18 Pickup Delay	0.000 s
Digital Element 18 Reset Delay	0.000 s
Digital Element 18 Pickup Led	Enabled
Digital Element 18 Block	OFF
Digital Element 18 Target	Self-reset
Digital Element 18 Events	Disabled
Digital Element 19 Function	Disabled
Digital Element 19 Name	Dig Element 19
Digital Element 19 Input	OFF
Digital Element 19 Pickup Delay	0.000 s
Digital Element 19 Reset Delay	0.000 s
Digital Element 19 Pickup Led	Enabled
Digital Element 19 Block	OFF
Digital Element 19 Target	Self-reset
Digital Element 19 Events	Disabled
Digital Element 20 Function	Disabled
Digital Element 20 Name	Dig Element 20
Digital Element 20 Input	OFF
Digital Element 20 Pickup Delay	0.000 s
Digital Element 20 Reset Delay	0.000 s
Digital Element 20 Pickup Led	Enabled
Digital Element 20 Block	OFF
Digital Element 20 Target	Self-reset
Digital Element 20 Events	Disabled
Digital Element 21 Function	Disabled
Digital Element 21 Name	Dig Element 21
Digital Element 21 Input	OFF
Digital Element 21 Pickup Delay	0.000 s
Digital Element 21 Reset Delay	0.000 s
Digital Element 21 Pickup Led	Enabled
Digital Element 21 Block	OFF
Digital Element 21 Target	Self-reset
Digital Element 21 Events	Disabled
Digital Element 22 Function	Disabled
Digital Element 22 Name	Dig Element 22
Digital Element 22 Input	OFF
Digital Element 22 Pickup Delay	0.000 s
Digital Element 22 Reset Delay	0.000 s
Digital Element 22 Pickup Led	Enabled
Digital Element 22 Block	OFF
Digital Element 22 Target	Self-reset
Digital Element 22 Events	Disabled
Digital Element 23 Function	Disabled
Digital Element 23 Name	Dig Element 23
Digital Element 23 Input	OFF
Digital Element 23 Pickup Delay	0.000 s
Digital Element 23 Reset Delay	0.000 s
Digital Element 23 Pickup Led	Enabled
Digital Element 23 Block	OFF
Digital Element 23 Target	Self-reset
Digital Element 23 Events	Disabled
Digital Element 24 Function	Disabled
Digital Element 24 Name	Dig Element 24
Digital Element 24 Input	OFF
Digital Element 24 Pickup Delay	0.000 s
Digital Element 24 Reset Delay	0.000 s
Digital Element 24 Pickup Led	Enabled
Digital Element 24 Block	OFF
Digital Element 24 Target	Self-reset
Digital Element 24 Events	Disabled
Digital Element 25 Function	Disabled
Digital Element 25 Name	Dig Element 25
Digital Element 25 Input	OFF
Digital Element 25 Pickup Delay	0.000 s
Digital Element 25 Reset Delay	0.000 s
Digital Element 25 Pickup Led	Enabled
Digital Element 25 Block	OFF
Digital Element 25 Target	Self-reset
Digital Element 25 Events	Disabled
Digital Element 26 Function	Disabled
Digital Element 26 Name	Dig Element 26

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## DEVICE DEFINITION

## DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000458  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05  
 DESCRIPTION: PACO B2  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

## DIGITAL ELEMENTS (continued from last page)

Digital Element 26 Input	OFF
Digital Element 26 Pickup Delay	0.000 s
Digital Element 26 Reset Delay	0.000 s
Digital Element 26 Pickup Led	Enabled
Digital Element 26 Block	OFF
Digital Element 26 Target	Self-reset
Digital Element 26 Events	Disabled
Digital Element 27 Function	Disabled
Digital Element 27 Name	Dig Element 27
Digital Element 27 Input	OFF
Digital Element 27 Pickup Delay	0.000 s
Digital Element 27 Reset Delay	0.000 s
Digital Element 27 Pickup Led	Enabled
Digital Element 27 Block	OFF
Digital Element 27 Target	Self-reset
Digital Element 27 Events	Disabled
Digital Element 28 Function	Disabled
Digital Element 28 Name	Dig Element 28
Digital Element 28 Input	OFF
Digital Element 28 Pickup Delay	0.000 s
Digital Element 28 Reset Delay	0.000 s
Digital Element 28 Pickup Led	Enabled
Digital Element 28 Block	OFF
Digital Element 28 Target	Self-reset
Digital Element 28 Events	Disabled
Digital Element 29 Function	Disabled
Digital Element 29 Name	Dig Element 29
Digital Element 29 Input	OFF
Digital Element 29 Pickup Delay	0.000 s
Digital Element 29 Reset Delay	0.000 s
Digital Element 29 Pickup Led	Enabled
Digital Element 29 Block	OFF
Digital Element 29 Target	Self-reset
Digital Element 29 Events	Disabled
Digital Element 30 Function	Disabled
Digital Element 30 Name	Dig Element 30
Digital Element 30 Input	OFF
Digital Element 30 Pickup Delay	0.000 s
Digital Element 30 Reset Delay	0.000 s
Digital Element 30 Pickup Led	Enabled
Digital Element 30 Block	OFF
Digital Element 30 Target	Self-reset
Digital Element 30 Events	Disabled
Digital Element 31 Function	Disabled
Digital Element 31 Name	Dig Element 31
Digital Element 31 Input	OFF
Digital Element 31 Pickup Delay	0.000 s
Digital Element 31 Reset Delay	0.000 s
Digital Element 31 Pickup Led	Enabled
Digital Element 31 Block	OFF
Digital Element 31 Target	Self-reset
Digital Element 31 Events	Disabled
Digital Element 32 Function	Disabled
Digital Element 32 Name	Dig Element 32
Digital Element 32 Input	OFF
Digital Element 32 Pickup Delay	0.000 s
Digital Element 32 Reset Delay	0.000 s
Digital Element 32 Pickup Led	Enabled
Digital Element 32 Block	OFF
Digital Element 32 Target	Self-reset
Digital Element 32 Events	Disabled
Digital Element 33 Function	Disabled
Digital Element 33 Name	Dig Element 33
Digital Element 33 Input	OFF
Digital Element 33 Pickup Delay	0.000 s
Digital Element 33 Reset Delay	0.000 s
Digital Element 33 Pickup Led	Enabled
Digital Element 33 Block	OFF
Digital Element 33 Target	Self-reset
Digital Element 33 Events	Disabled
Digital Element 34 Function	Disabled

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 VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B2\SE LMO BACKUP DEJADO PS2 PACO B02\_06082020\

## DEVICE DEFINITION

## DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000458  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05  
 DESCRIPTION: PACO B2  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

## DIGITAL ELEMENTS (continued from last page)

Digital Element 34 Name	Dig Element 34
Digital Element 34 Input	OFF
Digital Element 34 Pickup Delay	0.000 s
Digital Element 34 Reset Delay	0.000 s
Digital Element 34 Pickup Led	Enabled
Digital Element 34 Block	OFF
Digital Element 34 Target	Self-reset
Digital Element 34 Events	Disabled
Digital Element 35 Function	Disabled
Digital Element 35 Name	Dig Element 35
Digital Element 35 Input	OFF
Digital Element 35 Pickup Delay	0.000 s
Digital Element 35 Reset Delay	0.000 s
Digital Element 35 Pickup Led	Enabled
Digital Element 35 Block	OFF
Digital Element 35 Target	Self-reset
Digital Element 35 Events	Disabled
Digital Element 36 Function	Disabled
Digital Element 36 Name	Dig Element 36
Digital Element 36 Input	OFF
Digital Element 36 Pickup Delay	0.000 s
Digital Element 36 Reset Delay	0.000 s
Digital Element 36 Pickup Led	Enabled
Digital Element 36 Block	OFF
Digital Element 36 Target	Self-reset
Digital Element 36 Events	Disabled
Digital Element 37 Function	Disabled
Digital Element 37 Name	Dig Element 37
Digital Element 37 Input	OFF
Digital Element 37 Pickup Delay	0.000 s
Digital Element 37 Reset Delay	0.000 s
Digital Element 37 Pickup Led	Enabled
Digital Element 37 Block	OFF
Digital Element 37 Target	Self-reset
Digital Element 37 Events	Disabled
Digital Element 38 Function	Disabled
Digital Element 38 Name	Dig Element 38
Digital Element 38 Input	OFF
Digital Element 38 Pickup Delay	0.000 s
Digital Element 38 Reset Delay	0.000 s
Digital Element 38 Pickup Led	Enabled
Digital Element 38 Block	OFF
Digital Element 38 Target	Self-reset
Digital Element 38 Events	Disabled
Digital Element 39 Function	Disabled
Digital Element 39 Name	Dig Element 39
Digital Element 39 Input	OFF
Digital Element 39 Pickup Delay	0.000 s
Digital Element 39 Reset Delay	0.000 s
Digital Element 39 Pickup Led	Enabled
Digital Element 39 Block	OFF
Digital Element 39 Target	Self-reset
Digital Element 39 Events	Disabled
Digital Element 40 Function	Disabled
Digital Element 40 Name	Dig Element 40
Digital Element 40 Input	OFF
Digital Element 40 Pickup Delay	0.000 s
Digital Element 40 Reset Delay	0.000 s
Digital Element 40 Pickup Led	Enabled
Digital Element 40 Block	OFF
Digital Element 40 Target	Self-reset
Digital Element 40 Events	Disabled
Digital Element 41 Function	Disabled
Digital Element 41 Name	Dig Element 41
Digital Element 41 Input	OFF
Digital Element 41 Pickup Delay	0.000 s
Digital Element 41 Reset Delay	0.000 s
Digital Element 41 Pickup Led	Enabled
Digital Element 41 Block	OFF
Digital Element 41 Target	Self-reset
Digital Element 41 Events	Disabled

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## DEVICE DEFINITION

## DEVICES

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 DESCRIPTION: PACO B2  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

## DIGITAL ELEMENTS (continued from last page)

Digital Element 42 Function	Disabled
Digital Element 42 Name	Dig Element 42
Digital Element 42 Input	OFF
Digital Element 42 Pickup Delay	0.000 s
Digital Element 42 Reset Delay	0.000 s
Digital Element 42 Pickup Led	Enabled
Digital Element 42 Block	OFF
Digital Element 42 Target	Self-reset
Digital Element 42 Events	Disabled
Digital Element 43 Function	Disabled
Digital Element 43 Name	Dig Element 43
Digital Element 43 Input	OFF
Digital Element 43 Pickup Delay	0.000 s
Digital Element 43 Reset Delay	0.000 s
Digital Element 43 Pickup Led	Enabled
Digital Element 43 Block	OFF
Digital Element 43 Target	Self-reset
Digital Element 43 Events	Disabled
Digital Element 44 Function	Disabled
Digital Element 44 Name	Dig Element 44
Digital Element 44 Input	OFF
Digital Element 44 Pickup Delay	0.000 s
Digital Element 44 Reset Delay	0.000 s
Digital Element 44 Pickup Led	Enabled
Digital Element 44 Block	OFF
Digital Element 44 Target	Self-reset
Digital Element 44 Events	Disabled
Digital Element 45 Function	Disabled
Digital Element 45 Name	Dig Element 45
Digital Element 45 Input	OFF
Digital Element 45 Pickup Delay	0.000 s
Digital Element 45 Reset Delay	0.000 s
Digital Element 45 Pickup Led	Enabled
Digital Element 45 Block	OFF
Digital Element 45 Target	Self-reset
Digital Element 45 Events	Disabled
Digital Element 46 Function	Disabled
Digital Element 46 Name	Dig Element 46
Digital Element 46 Input	OFF
Digital Element 46 Pickup Delay	0.000 s
Digital Element 46 Reset Delay	0.000 s
Digital Element 46 Pickup Led	Enabled
Digital Element 46 Block	OFF
Digital Element 46 Target	Self-reset
Digital Element 46 Events	Disabled
Digital Element 47 Function	Disabled
Digital Element 47 Name	Dig Element 47
Digital Element 47 Input	OFF
Digital Element 47 Pickup Delay	0.000 s
Digital Element 47 Reset Delay	0.000 s
Digital Element 47 Pickup Led	Enabled
Digital Element 47 Block	OFF
Digital Element 47 Target	Self-reset
Digital Element 47 Events	Disabled
Digital Element 48 Function	Disabled
Digital Element 48 Name	Dig Element 48
Digital Element 48 Input	OFF
Digital Element 48 Pickup Delay	0.000 s
Digital Element 48 Reset Delay	0.000 s
Digital Element 48 Pickup Led	Enabled
Digital Element 48 Block	OFF
Digital Element 48 Target	Self-reset
Digital Element 48 Events	Disabled

## DIGITAL COUNTERS

Digital Counter 1 Function	Disabled
Digital Counter 1 Name	Counter 1
Digital Counter 1 Units	
Digital Counter 1 Preset	0
Digital Counter 1 Compare	0
Digital Counter 1 Up	OFF

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## DEVICE DEFINITION

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 DESCRIPTION: PACO B2  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

## DIGITAL COUNTERS (continued from last page)

Digital Counter 1 Down	OFF
Digital Counter 1 Block	OFF
Digital Counter 1 Set To Preset	OFF
Digital Counter 1 Reset	OFF
Digital Counter 1 Freeze/Reset	OFF
Digital Counter 1 Freeze/Count	OFF
Digital Counter 2 Function	Disabled
Digital Counter 2 Name	Counter 2
Digital Counter 2 Units	
Digital Counter 2 Preset	0
Digital Counter 2 Compare	0
Digital Counter 2 Up	OFF
Digital Counter 2 Down	OFF
Digital Counter 2 Block	OFF
Digital Counter 2 Set To Preset	OFF
Digital Counter 2 Reset	OFF
Digital Counter 2 Freeze/Reset	OFF
Digital Counter 2 Freeze/Count	OFF
Digital Counter 3 Function	Disabled
Digital Counter 3 Name	Counter 3
Digital Counter 3 Units	
Digital Counter 3 Preset	0
Digital Counter 3 Compare	0
Digital Counter 3 Up	OFF
Digital Counter 3 Down	OFF
Digital Counter 3 Block	OFF
Digital Counter 3 Set To Preset	OFF
Digital Counter 3 Reset	OFF
Digital Counter 3 Freeze/Reset	OFF
Digital Counter 3 Freeze/Count	OFF
Digital Counter 4 Function	Disabled
Digital Counter 4 Name	Counter 4
Digital Counter 4 Units	
Digital Counter 4 Preset	0
Digital Counter 4 Compare	0
Digital Counter 4 Up	OFF
Digital Counter 4 Down	OFF
Digital Counter 4 Block	OFF
Digital Counter 4 Set To Preset	OFF
Digital Counter 4 Reset	OFF
Digital Counter 4 Freeze/Reset	OFF
Digital Counter 4 Freeze/Count	OFF
Digital Counter 5 Function	Disabled
Digital Counter 5 Name	Counter 5
Digital Counter 5 Units	
Digital Counter 5 Preset	0
Digital Counter 5 Compare	0
Digital Counter 5 Up	OFF
Digital Counter 5 Down	OFF
Digital Counter 5 Block	OFF
Digital Counter 5 Set To Preset	OFF
Digital Counter 5 Reset	OFF
Digital Counter 5 Freeze/Reset	OFF
Digital Counter 5 Freeze/Count	OFF
Digital Counter 6 Function	Disabled
Digital Counter 6 Name	Counter 6
Digital Counter 6 Units	
Digital Counter 6 Preset	0
Digital Counter 6 Compare	0
Digital Counter 6 Up	OFF
Digital Counter 6 Down	OFF
Digital Counter 6 Block	OFF
Digital Counter 6 Set To Preset	OFF
Digital Counter 6 Reset	OFF
Digital Counter 6 Freeze/Reset	OFF
Digital Counter 6 Freeze/Count	OFF
Digital Counter 7 Function	Disabled
Digital Counter 7 Name	Counter 7
Digital Counter 7 Units	
Digital Counter 7 Preset	0
Digital Counter 7 Compare	0

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## DEVICE DEFINITION

## DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
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 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05  
 DESCRIPTION: PACO B2  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

DIGITAL COUNTERS (continued from last page)

Digital Counter 7 Up	OFF
Digital Counter 7 Down	OFF
Digital Counter 7 Block	OFF
Digital Counter 7 Set To Preset	OFF
Digital Counter 7 Reset	OFF
Digital Counter 7 Freeze/Reset	OFF
Digital Counter 7 Freeze/Count	OFF
Digital Counter 8 Function	Disabled
Digital Counter 8 Name	Counter 8
Digital Counter 8 Units	
Digital Counter 8 Preset	0
Digital Counter 8 Compare	0
Digital Counter 8 Up	OFF
Digital Counter 8 Down	OFF
Digital Counter 8 Block	OFF
Digital Counter 8 Set To Preset	OFF
Digital Counter 8 Reset	OFF
Digital Counter 8 Freeze/Reset	OFF
Digital Counter 8 Freeze/Count	OFF

## MONITORING ELEMENTS

BREAKER ARCING CURRENT

BREAKER 1 ARC: Function	Disabled
BREAKER 1 ARC: Source	SRC 1 (SRC 1)
BREAKER 1 ARC: Init A	OFF
BREAKER 1 ARC: Init B	OFF
BREAKER 1 ARC: Init C	OFF
BREAKER 1 ARC: Delay	0.000 s
BREAKER 1 ARC: Limit	1000 kA2-cyc
BREAKER 1 ARC: Block	OFF
BREAKER 1 ARC: Target	Self-reset
BREAKER 1 ARC: Events	Disabled
BREAKER 2 ARC: Function	Disabled
BREAKER 2 ARC: Source	SRC 1 (SRC 1)
BREAKER 2 ARC: Init A	OFF
BREAKER 2 ARC: Init B	OFF
BREAKER 2 ARC: Init C	OFF
BREAKER 2 ARC: Delay	0.000 s
BREAKER 2 ARC: Limit	1000 kA2-cyc
BREAKER 2 ARC: Block	OFF
BREAKER 2 ARC: Target	Self-reset
BREAKER 2 ARC: Events	Disabled

BREAKER FLASHOVER

BREAKER FLASHOVER 1: Function	Disabled
BREAKER FLASHOVER 1: Side 1	SRC 1 (SRC 1)
BREAKER FLASHOVER 1: Side 2	None
BREAKER FLASHOVER 1: Status Closed A	OFF
BREAKER FLASHOVER 1: Status Closed B	OFF
BREAKER FLASHOVER 1: Status Closed C	OFF
BREAKER FLASHOVER 1: V Pickup	0.850 pu
BREAKER FLASHOVER 1: Diff V Pickup	1000 V
BREAKER FLASHOVER 1: Amp Pickup	0.600 pu
BREAKER FLASHOVER 1: Pickup Delay	0.100 s
BREAKER FLASHOVER 1: Supv A	OFF
BREAKER FLASHOVER 1: Supv B	OFF
BREAKER FLASHOVER 1: Supv C	OFF
BREAKER FLASHOVER 1: Block	OFF
BREAKER FLASHOVER 1: Target	Self-reset
BREAKER FLASHOVER 1: Events	Disabled
BREAKER FLASHOVER 2: Function	Disabled
BREAKER FLASHOVER 2: Side 1	SRC 1 (SRC 1)
BREAKER FLASHOVER 2: Side 2	None
BREAKER FLASHOVER 2: Status Closed A	OFF
BREAKER FLASHOVER 2: Status Closed B	OFF
BREAKER FLASHOVER 2: Status Closed C	OFF
BREAKER FLASHOVER 2: V Pickup	0.850 pu
BREAKER FLASHOVER 2: Diff V Pickup	1000 V
BREAKER FLASHOVER 2: Amp Pickup	0.600 pu
BREAKER FLASHOVER 2: Pickup Delay	0.100 s
BREAKER FLASHOVER 2: Supv A	OFF

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## DEVICE DEFINITION

## DEVICES

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 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05  
 DESCRIPTION: PACO B2  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

BREAKER FLASHOVER (continued from last page)

BREAKER FLASHOVER 2: Supv B	OFF
BREAKER FLASHOVER 2: Supv C	OFF
BREAKER FLASHOVER 2: Block	OFF
BREAKER FLASHOVER 2: Target	Self-reset
BREAKER FLASHOVER 2: Events	Disabled

VT FUSE FAILURE

VT FUSE FAILURE 1: Function	Enabled
VT FUSE FAILURE 2: Function	Disabled

OPEN POLE

Function	Disabled
Block	OFF
Voltage SUPV	Disabled
Current Pickup	0.050 pu
Open Pole Line XC1	9999.9 ohms
Open Pole Line XC0	9999.9 ohms
Open Pole REM Current PKP	0.050 pu
Target	Self-reset
Events	Enabled

## PILOT SCHEMES

1P DUTT SCHEME

Function	Disabled
Block	OFF
Seal-In Delay	0.000 s
No of Comm Bits	1
RX1	OFF
RX2	OFF
RX3	OFF
RX4	OFF
Target	Self-reset
Event	Disabled

1P PUTT SCHEME

Function	Disabled
Block	OFF
Rx Pickup Delay	0.000 s
Seal-In Delay	0.000 s
No of Comm Bits	1
Rx1	OFF
Rx2	OFF
Rx3	OFF
Rx4	OFF
target	Self-reset
Event	Disabled

1P POTT SCHEME

Function	Disabled
Block	OFF
Permissive Echo	Disabled
Echo Condition	OFF
Rx Pickup Delay	0.000 s
Trans Block Pickup Delay	0.020 s
Trans Block Reset Delay	0.090 s
Echo Duration	0.100 s
Echo Lockout	0.250 s
Line End Open Pickup Delay	0.050 s
Seal-In Delay	0.000 s
Gnd Dir OC Fwd	OFF
Comm Bits	1
Rx1	OFF
Rx2	OFF
Rx3	OFF
Rx4	OFF
Target	Self-reset
Event	Disabled

1P HYBRID POTT SCHEME

Function	Disabled
Block	OFF

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## DEVICE DEFINITION

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 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

1P HYBRID POTT SCHEME (continued from last page)

Permissive Echo	Disabled
Echo Condition	OFF
Weak Infeed	Enabled
W/I Condition	OFF
Rx Pickup Delay	0.000 s
Trans Block Pickup Delay	0.020 s
Trans Block Reset Delay	0.090 s
Echo Duration	0.100 s
Echo Lockout	0.250 s
Seal-In Delay	0.000 s
Gnd Dir OC Fwd	OFF
Gnd Dir OC Rev	OFF
No of Comm Bits	1
Rx1	OFF
Rx2	OFF
Rx3	OFF
Rx4	OFF
Target	Self-reset
Event	Disabled

1P BLOCKING SCHEME

Function	Disabled
Block	OFF
Rx Coord Pickup Delay	0.010 s
Transient Block Pickup Delay	0.030 s
Transient Block Reset Delay	0.090 s
Seal-In Delay	0.000 s
Gnd Dir OC Fwd	OFF
Gnd Dir OC Rev	OFF
No of Comm Bits	1
Rx1	OFF
Rx2	OFF
Rx3	OFF
Rx4	OFF
Target	Self-reset
Event	Disabled

DCUB SCHEME

Scheme Function	Disabled
Block	OFF
Permissive Echo	Disabled
Echo Cond	OFF
Gnd Dir OC Fwd	OFF
Gnd Dir OC Rev	OFF
Trans Block Pickup Delay	0.020 s
Trans Block Reset Delay	0.090 s
Echo Duration	0.100 s
Echo Lockout	0.250 s
Line End Open Pickup Delay	0.050 s
Log Pickup Delay	0.008 s
Guard Healthy Reset Delay	0.015 s
Log Trip Window	0.150 s
Seal In Delay	0.010 s
Comm Bits	1
Rx1	OFF
Log1	OFF
Rx2	OFF
Log2	OFF
Rx3	OFF
Log3	OFF
Rx4	OFF
Log4	OFF
Target	Self-reset
Event	Disabled

AUTORECLOSE 1P

Function	Enabled
Mode	3 Pole - B
Max Number Of Shots	1
Block BKR1	OFF
Close Time BKR1	0.10 s



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DEVICE DEFINITION

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 ASSOCIATED DEVICE: (NONE)

AUTORECLOSE 1P (continued from last page)

BKR Man Close	OFF
Blk Time Upon Man Cls	1.00 s
1-P Init	OFF
3-P Init	INICIO79 On (VO6)
3-P TD Init	OFF
Multi P Fault	OFF
BKR 1 Pole Open	OFF
BKR 3 Pole Open	52B2 CERRADO Off(H1a)
3-P Dead Time 1	2.00 s
3-P Dead Time 2	1.20 s
3-P Dead Time 3	2.00 s
3-P Dead Time 4	4.00 s
Extend Dead T1	OFF
Dead T1 Extension	0.50 s
Reset	OFF
Reset Time	1.00 s
BKR Closed	52B2 CERRADO On(H1a)
Block	BLOQUEO79 On (VO7)
Pause	OFF
Inc Seq Time	5.00 s
Block BKR2	OFF
Close Time BKR2	0.10 s
Transfer 1 to 2	No
Transfer 2 to 1	No
BKR1 Fail Option	Continue
BKR2 Fail Option	Continue
1-P Dead Time	1.00 s
BKR Sequence	1
Transfer Time	4.00 s
BUS FLT Init	OFF
Event	Enabled

INPUTS/OUTPUTS

CONTACT INPUTS

[H1a] Contact Input 1a ID	52B2 CERRADO
[H1a] Contact Input 1a Debounce Time	2.0 ms
[H1a] Contact Input 1a Events	Enabled
[H1c] Contact Input 1c ID	RESORTE DESC
[H1c] Contact Input 1c Debounce Time	2.0 ms
[H1c] Contact Input 1c Events	Enabled
[H2a] Contact Input 2a ID	79 HAB
[H2a] Contact Input 2a Debounce Time	2.0 ms
[H2a] Contact Input 2a Events	Enabled
[H2c] Contact Input 2c ID	BLOQUEO SF6
[H2c] Contact Input 2c Debounce Time	2.0 ms
[H2c] Contact Input 2c Events	Enabled
[H3a] Contact Input 3a ID	ALARMA SF6
[H3a] Contact Input 3a Debounce Time	2.0 ms
[H3a] Contact Input 3a Events	Enabled
[H3c] Contact Input 3c ID	MCB BARRA
[H3c] Contact Input 3c Debounce Time	2.0 ms
[H3c] Contact Input 3c Events	Enabled
[H4a] Contact Input 4a ID	SUP 79
[H4a] Contact Input 4a Debounce Time	2.0 ms
[H4a] Contact Input 4a Events	Enabled
[H4c] Contact Input 4c ID	Cont Ip 8
[H4c] Contact Input 4c Debounce Time	2.0 ms
[H4c] Contact Input 4c Events	Disabled
[H5a] Contact Input 5a ID	Cont Ip 9
[H5a] Contact Input 5a Debounce Time	2.0 ms
[H5a] Contact Input 5a Events	Disabled
[H5c] Contact Input 5c ID	Cont Ip 10
[H5c] Contact Input 5c Debounce Time	2.0 ms
[H5c] Contact Input 5c Events	Disabled
[H6a] Contact Input 6a ID	Cont Ip 11
[H6a] Contact Input 6a Debounce Time	2.0 ms
[H6a] Contact Input 6a Events	Disabled
[H6c] Contact Input 6c ID	Cont Ip 12
[H6c] Contact Input 6c Debounce Time	2.0 ms
[H6c] Contact Input 6c Events	Disabled
[H7a] Contact Input 7a ID	Cont Ip 13

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CONTACT INPUTS (continued from last page)

[H7a] Contact Input 7a Debounce Time	2.0 ms
[H7a] Contact Input 7a Events	Disabled
[H7c] Contact Input 7c ID	Cont Ip 14
[H7c] Contact Input 7c Debounce Time	2.0 ms
[H7c] Contact Input 7c Events	Disabled
[H8a] Contact Input 8a ID	Cont Ip 15
[H8a] Contact Input 8a Debounce Time	2.0 ms
[H8a] Contact Input 8a Events	Disabled
[H8c] Contact Input 8c ID	Cont Ip 16
[H8c] Contact Input 8c Debounce Time	2.0 ms
[H8c] Contact Input 8c Events	Disabled
[M7a] Contact Input 7a ID	Cont Ip 17
[M7a] Contact Input 7a Debounce Time	2.0 ms
[M7a] Contact Input 7a Events	Disabled
[M7c] Contact Input 7c ID	Cont Ip 18
[M7c] Contact Input 7c Debounce Time	2.0 ms
[M7c] Contact Input 7c Events	Disabled
[M8a] Contact Input 8a ID	Cont Ip 19
[M8a] Contact Input 8a Debounce Time	2.0 ms
[M8a] Contact Input 8a Events	Disabled
[M8c] Contact Input 8c ID	Cont Ip 20
[M8c] Contact Input 8c Debounce Time	2.0 ms
[M8c] Contact Input 8c Events	Disabled
[P7a] Contact Input 7a ID	Cont Ip 21
[P7a] Contact Input 7a Debounce Time	2.0 ms
[P7a] Contact Input 7a Events	Disabled
[P7c] Contact Input 7c ID	Cont Ip 22
[P7c] Contact Input 7c Debounce Time	2.0 ms
[P7c] Contact Input 7c Events	Disabled
[P8a] Contact Input 8a ID	Cont Ip 23
[P8a] Contact Input 8a Debounce Time	2.0 ms
[P8a] Contact Input 8a Events	Disabled
[P8c] Contact Input 8c ID	Cont Ip 24
[P8c] Contact Input 8c Debounce Time	2.0 ms
[P8c] Contact Input 8c Events	Disabled

CONTACT INPUT THRESHOLDS

52B2 CERRADO, RESORTE DESC, 79 HAB, BLOQUEO SF6(H1a, H1c, H2a, H2c)	84 Vdc
ALARMA SF6, MCB BARRA, SUP 79, Cont Ip 8(H3a, H3c, H4a, H4c)	84 Vdc
Cont Ip 9, Cont Ip 10, Cont Ip 11, Cont Ip 12(H5a, H5c, H6a, H6c)	84 Vdc
Cont Ip 13, Cont Ip 14, Cont Ip 15, Cont Ip 16(H7a, H7c, H8a, H8c)	84 Vdc
Cont Ip 17, Cont Ip 18, Cont Ip 19, Cont Ip 20(M7a, M7c, M8a, M8c)	84 Vdc
Cont Ip 21, Cont Ip 22, Cont Ip 23, Cont Ip 24(P7a, P7c, P8a, P8c)	84 Vdc

VIRTUAL INPUTS

VIRTUAL INPUTS

Virtual Input 1 Function	Disabled
Virtual Input 1 ID	Virt Ip 1
Virtual Input 1 Type	Latched
Virtual Input 1 Events	Disabled
Virtual Input 2 Function	Disabled
Virtual Input 2 ID	Virt Ip 2
Virtual Input 2 Type	Latched
Virtual Input 2 Events	Disabled
Virtual Input 3 Function	Disabled
Virtual Input 3 ID	Virt Ip 3
Virtual Input 3 Type	Latched
Virtual Input 3 Events	Disabled
Virtual Input 4 Function	Disabled
Virtual Input 4 ID	Virt Ip 4
Virtual Input 4 Type	Latched
Virtual Input 4 Events	Disabled
Virtual Input 5 Function	Disabled
Virtual Input 5 ID	Virt Ip 5
Virtual Input 5 Type	Latched

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 VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B2\SE LMO BACKUP DEJADO PS2 PACO B02\_06082020\

## DEVICE DEFINITION

## DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000458  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05  
 DESCRIPTION: PACO B2  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

## VIRTUAL INPUTS (continued from last page)

Virtual Input 5 Events	Disabled
Virtual Input 6 Function	Disabled
Virtual Input 6 ID	Virt Ip 6
Virtual Input 6 Type	Latched
Virtual Input 6 Events	Disabled
Virtual Input 7 Function	Disabled
Virtual Input 7 ID	Virt Ip 7
Virtual Input 7 Type	Latched
Virtual Input 7 Events	Disabled
Virtual Input 8 Function	Disabled
Virtual Input 8 ID	Virt Ip 8
Virtual Input 8 Type	Latched
Virtual Input 8 Events	Disabled
Virtual Input 9 Function	Disabled
Virtual Input 9 ID	Virt Ip 9
Virtual Input 9 Type	Latched
Virtual Input 9 Events	Disabled
Virtual Input 10 Function	Disabled
Virtual Input 10 ID	Virt Ip 10
Virtual Input 10 Type	Latched
Virtual Input 10 Events	Disabled
Virtual Input 11 Function	Disabled
Virtual Input 11 ID	Virt Ip 11
Virtual Input 11 Type	Latched
Virtual Input 11 Events	Disabled
Virtual Input 12 Function	Disabled
Virtual Input 12 ID	Virt Ip 12
Virtual Input 12 Type	Latched
Virtual Input 12 Events	Disabled
Virtual Input 13 Function	Disabled
Virtual Input 13 ID	Virt Ip 13
Virtual Input 13 Type	Latched
Virtual Input 13 Events	Disabled
Virtual Input 14 Function	Disabled
Virtual Input 14 ID	Virt Ip 14
Virtual Input 14 Type	Latched
Virtual Input 14 Events	Disabled
Virtual Input 15 Function	Disabled
Virtual Input 15 ID	Virt Ip 15
Virtual Input 15 Type	Latched
Virtual Input 15 Events	Disabled
Virtual Input 16 Function	Disabled
Virtual Input 16 ID	Virt Ip 16
Virtual Input 16 Type	Latched
Virtual Input 16 Events	Disabled
Virtual Input 17 Function	Disabled
Virtual Input 17 ID	Virt Ip 17
Virtual Input 17 Type	Latched
Virtual Input 17 Events	Disabled
Virtual Input 18 Function	Disabled
Virtual Input 18 ID	Virt Ip 18
Virtual Input 18 Type	Latched
Virtual Input 18 Events	Disabled
Virtual Input 19 Function	Disabled
Virtual Input 19 ID	Virt Ip 19
Virtual Input 19 Type	Latched
Virtual Input 19 Events	Disabled
Virtual Input 20 Function	Disabled
Virtual Input 20 ID	Virt Ip 20
Virtual Input 20 Type	Latched
Virtual Input 20 Events	Disabled
Virtual Input 21 Function	Disabled
Virtual Input 21 ID	Virt Ip 21
Virtual Input 21 Type	Latched
Virtual Input 21 Events	Disabled
Virtual Input 22 Function	Disabled
Virtual Input 22 ID	Virt Ip 22
Virtual Input 22 Type	Latched
Virtual Input 22 Events	Disabled
Virtual Input 23 Function	Disabled
Virtual Input 23 ID	Virt Ip 23

SE LMO BACKUP DEJADO PS2 PACO B02\_06082020.URS  
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 VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B2\SE LMO BACKUP DEJADO PS2 PACO B02\_06082020\

DEVICE DEFINITION

DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 UR SERIAL NUMBER: AABC08000458  
 SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05  
 DESCRIPTION: PACO B2  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

VIRTUAL INPUTS (continued from last page)

Virtual Input 23 Type	Latched
Virtual Input 23 Events	Disabled
Virtual Input 24 Function	Disabled
Virtual Input 24 ID	Virt Ip 24
Virtual Input 24 Type	Latched
Virtual Input 24 Events	Disabled
Virtual Input 25 Function	Disabled
Virtual Input 25 ID	Virt Ip 25
Virtual Input 25 Type	Latched
Virtual Input 25 Events	Disabled
Virtual Input 26 Function	Disabled
Virtual Input 26 ID	Virt Ip 26
Virtual Input 26 Type	Latched
Virtual Input 26 Events	Disabled
Virtual Input 27 Function	Disabled
Virtual Input 27 ID	Virt Ip 27
Virtual Input 27 Type	Latched
Virtual Input 27 Events	Disabled
Virtual Input 28 Function	Disabled
Virtual Input 28 ID	Virt Ip 28
Virtual Input 28 Type	Latched
Virtual Input 28 Events	Disabled
Virtual Input 29 Function	Disabled
Virtual Input 29 ID	Virt Ip 29
Virtual Input 29 Type	Latched
Virtual Input 29 Events	Disabled
Virtual Input 30 Function	Disabled
Virtual Input 30 ID	Virt Ip 30
Virtual Input 30 Type	Latched
Virtual Input 30 Events	Disabled
Virtual Input 31 Function	Disabled
Virtual Input 31 ID	Virt Ip 31
Virtual Input 31 Type	Latched
Virtual Input 31 Events	Disabled
Virtual Input 32 Function	Disabled
Virtual Input 32 ID	Virt Ip 32
Virtual Input 32 Type	Latched
Virtual Input 32 Events	Disabled
Virtual Input 33 Function	Disabled
Virtual Input 33 ID	Virt Ip 33
Virtual Input 33 Type	Latched
Virtual Input 33 Events	Disabled
Virtual Input 34 Function	Disabled
Virtual Input 34 ID	Virt Ip 34
Virtual Input 34 Type	Latched
Virtual Input 34 Events	Disabled
Virtual Input 35 Function	Disabled
Virtual Input 35 ID	Virt Ip 35
Virtual Input 35 Type	Latched
Virtual Input 35 Events	Disabled
Virtual Input 36 Function	Disabled
Virtual Input 36 ID	Virt Ip 36
Virtual Input 36 Type	Latched
Virtual Input 36 Events	Disabled
Virtual Input 37 Function	Disabled
Virtual Input 37 ID	Virt Ip 37
Virtual Input 37 Type	Latched
Virtual Input 37 Events	Disabled
Virtual Input 38 Function	Disabled
Virtual Input 38 ID	Virt Ip 38
Virtual Input 38 Type	Latched
Virtual Input 38 Events	Disabled
Virtual Input 39 Function	Disabled
Virtual Input 39 ID	Virt Ip 39
Virtual Input 39 Type	Latched
Virtual Input 39 Events	Disabled
Virtual Input 40 Function	Disabled
Virtual Input 40 ID	Virt Ip 40
Virtual Input 40 Type	Latched
Virtual Input 40 Events	Disabled
Virtual Input 41 Function	Disabled

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VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B2\SE LMO BACKUP DEJADO PS2 PACO B02\_06082020\

## DEVICE DEFINITION

## DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67

VERSION: 5.5X

UR SERIAL NUMBER: AABC08000458

SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05

DESCRIPTION: PACO B2

TEXT COLOR

ASSOCIATED DEVICE: (NONE)

## VIRTUAL INPUTS (continued from last page)

Virtual Input 41 ID	Virt Ip 41
Virtual Input 41 Type	Latched
Virtual Input 41 Events	Disabled
Virtual Input 42 Function	Disabled
Virtual Input 42 ID	Virt Ip 42
Virtual Input 42 Type	Latched
Virtual Input 42 Events	Disabled
Virtual Input 43 Function	Disabled
Virtual Input 43 ID	Virt Ip 43
Virtual Input 43 Type	Latched
Virtual Input 43 Events	Disabled
Virtual Input 44 Function	Disabled
Virtual Input 44 ID	Virt Ip 44
Virtual Input 44 Type	Latched
Virtual Input 44 Events	Disabled
Virtual Input 45 Function	Disabled
Virtual Input 45 ID	Virt Ip 45
Virtual Input 45 Type	Latched
Virtual Input 45 Events	Disabled
Virtual Input 46 Function	Disabled
Virtual Input 46 ID	Virt Ip 46
Virtual Input 46 Type	Latched
Virtual Input 46 Events	Disabled
Virtual Input 47 Function	Disabled
Virtual Input 47 ID	Virt Ip 47
Virtual Input 47 Type	Latched
Virtual Input 47 Events	Disabled
Virtual Input 48 Function	Disabled
Virtual Input 48 ID	Virt Ip 48
Virtual Input 48 Type	Latched
Virtual Input 48 Events	Disabled
Virtual Input 49 Function	Disabled
Virtual Input 49 ID	Virt Ip 49
Virtual Input 49 Type	Latched
Virtual Input 49 Events	Disabled
Virtual Input 50 Function	Disabled
Virtual Input 50 ID	Virt Ip 50
Virtual Input 50 Type	Latched
Virtual Input 50 Events	Disabled
Virtual Input 51 Function	Disabled
Virtual Input 51 ID	Virt Ip 51
Virtual Input 51 Type	Latched
Virtual Input 51 Events	Disabled
Virtual Input 52 Function	Disabled
Virtual Input 52 ID	Virt Ip 52
Virtual Input 52 Type	Latched
Virtual Input 52 Events	Disabled
Virtual Input 53 Function	Disabled
Virtual Input 53 ID	Virt Ip 53
Virtual Input 53 Type	Latched
Virtual Input 53 Events	Disabled
Virtual Input 54 Function	Disabled
Virtual Input 54 ID	Virt Ip 54
Virtual Input 54 Type	Latched
Virtual Input 54 Events	Disabled
Virtual Input 55 Function	Disabled
Virtual Input 55 ID	Virt Ip 55
Virtual Input 55 Type	Latched
Virtual Input 55 Events	Disabled
Virtual Input 56 Function	Disabled
Virtual Input 56 ID	Virt Ip 56
Virtual Input 56 Type	Latched
Virtual Input 56 Events	Disabled
Virtual Input 57 Function	Disabled
Virtual Input 57 ID	Virt Ip 57
Virtual Input 57 Type	Latched
Virtual Input 57 Events	Disabled
Virtual Input 58 Function	Disabled
Virtual Input 58 ID	Virt Ip 58
Virtual Input 58 Type	Latched
Virtual Input 58 Events	Disabled

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## DEVICE DEFINITION

## DEVICES

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VERSION: 5.5X

UR SERIAL NUMBER: AABC08000458

SETTINGS SENT TO RELAY: THURSDAY, AUGUST 06, 2020 21:59:05

DESCRIPTION: PACO B2

TEXT COLOR

ASSOCIATED DEVICE: (NONE)

VIRTUAL INPUTS (continued from last page)

Virtual Input 59 Function	Disabled
Virtual Input 59 ID	Virt Ip 59
Virtual Input 59 Type	Latched
Virtual Input 59 Events	Disabled
Virtual Input 60 Function	Disabled
Virtual Input 60 ID	Virt Ip 60
Virtual Input 60 Type	Latched
Virtual Input 60 Events	Disabled
Virtual Input 61 Function	Disabled
Virtual Input 61 ID	Virt Ip 61
Virtual Input 61 Type	Latched
Virtual Input 61 Events	Disabled
Virtual Input 62 Function	Disabled
Virtual Input 62 ID	Virt Ip 62
Virtual Input 62 Type	Latched
Virtual Input 62 Events	Disabled
Virtual Input 63 Function	Disabled
Virtual Input 63 ID	Virt Ip 63
Virtual Input 63 Type	Latched
Virtual Input 63 Events	Disabled
Virtual Input 64 Function	Disabled
Virtual Input 64 ID	Virt Ip 64
Virtual Input 64 Type	Latched
Virtual Input 64 Events	Disabled

CONTACT OUTPUTS

[M1] Contact Output 1 ID	TRIP1 52B2
[M1] Contact Output 1 Operate	TRIPBUS 1 OP
[M1] Contact Output 1 Seal-In	OFF
[M1] Contact Output 1 Events	Enabled
[M2] Contact Output 2 ID	TRIP2 52B2
[M2] Contact Output 2 Operate	TRIPBUS 1 OP
[M2] Contact Output 2 Seal-In	OFF
[M2] Contact Output 2 Events	Enabled
[M3] Contact Output 3 ID	ORDEN 79
[M3] Contact Output 3 Operate	AR CLOSE BKR 1
[M3] Contact Output 3 Seal-In	OFF
[M3] Contact Output 3 Events	Enabled
[M4] Contact Output 4 ID	SUP 79
[M4] Contact Output 4 Operate	SUP79OK On (VO8)
[M4] Contact Output 4 Seal-In	OFF
[M4] Contact Output 4 Events	Enabled
[M5] Contact Output 5 ID	Cont Op 5
[M5] Contact Output 5 Operate	OFF
[M5] Contact Output 5 Seal-In	OFF
[M5] Contact Output 5 Events	Disabled
[M6] Contact Output 6 ID	Cont Op 6
[M6] Contact Output 6 Operate	OFF
[M6] Contact Output 6 Seal-In	OFF
[M6] Contact Output 6 Events	Disabled
[P1] Contact Output 7 ID	ALARMA TRIP
[P1] Contact Output 7 Operate	TRIPBUS 1 OP
[P1] Contact Output 7 Seal-In	OFF
[P1] Contact Output 7 Events	Enabled
[P2] Contact Output 8 ID	AL FALLA B2
[P2] Contact Output 8 Operate	OFF
[P2] Contact Output 8 Seal-In	OFF
[P2] Contact Output 8 Events	Enabled
[P3] Contact Output 9 ID	Cont Op 9
[P3] Contact Output 9 Operate	OFF
[P3] Contact Output 9 Seal-In	OFF
[P3] Contact Output 9 Events	Disabled
[P4] Contact Output 10 ID	Cont Op 10
[P4] Contact Output 10 Operate	OFF
[P4] Contact Output 10 Seal-In	OFF
[P4] Contact Output 10 Events	Disabled
[P5] Contact Output 11 ID	Cont Op 11
[P5] Contact Output 11 Operate	OFF
[P5] Contact Output 11 Seal-In	OFF
[P5] Contact Output 11 Events	Disabled
[P6] Contact Output 12 ID	Cont Op 12

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## DEVICES

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DESCRIPTION: PACO B2

TEXT COLOR

ASSOCIATED DEVICE: (NONE)

CONTACT OUTPUTS (continued from last page)

[P6] Contact Output 12 Operate	OFF
[P6] Contact Output 12 Seal-In	OFF
[P6] Contact Output 12 Events	Disabled
[U1] Contact Output 13 ID	Cont Op 13
[U1] Contact Output 13 Operate	OFF
[U1] Contact Output 13 Seal-In	OFF
[U1] Contact Output 13 Events	Disabled
[U2] Contact Output 14 ID	Cont Op 14
[U2] Contact Output 14 Operate	OFF
[U2] Contact Output 14 Seal-In	OFF
[U2] Contact Output 14 Events	Disabled
[U3] Contact Output 15 ID	Cont Op 15
[U3] Contact Output 15 Operate	OFF
[U3] Contact Output 15 Seal-In	OFF
[U3] Contact Output 15 Events	Disabled
[U4] Contact Output 16 ID	Cont Op 16
[U4] Contact Output 16 Operate	OFF
[U4] Contact Output 16 Seal-In	OFF
[U4] Contact Output 16 Events	Disabled
[U5] Contact Output 17 ID	Cont Op 17
[U5] Contact Output 17 Operate	OFF
[U5] Contact Output 17 Seal-In	OFF
[U5] Contact Output 17 Events	Disabled
[U6] Contact Output 18 ID	Cont Op 18
[U6] Contact Output 18 Operate	OFF
[U6] Contact Output 18 Seal-In	OFF
[U6] Contact Output 18 Events	Disabled
[U7] Contact Output 19 ID	Cont Op 19
[U7] Contact Output 19 Operate	OFF
[U7] Contact Output 19 Seal-In	OFF
[U7] Contact Output 19 Events	Disabled
[U8] Contact Output 20 ID	Cont Op 20
[U8] Contact Output 20 Operate	OFF
[U8] Contact Output 20 Seal-In	OFF
[U8] Contact Output 20 Events	Disabled
[W1] Contact Output 21 ID	Cont Op 21
[W1] Contact Output 21 Operate	OFF
[W1] Contact Output 21 Seal-In	OFF
[W1] Contact Output 21 Events	Enabled
[W2] Contact Output 22 ID	Cont Op 22
[W2] Contact Output 22 Operate	OFF
[W2] Contact Output 22 Seal-In	OFF
[W2] Contact Output 22 Events	Disabled
[W3] Contact Output 23 ID	Cont Op 23
[W3] Contact Output 23 Operate	OFF
[W3] Contact Output 23 Seal-In	OFF
[W3] Contact Output 23 Events	Disabled
[W4] Contact Output 24 ID	Cont Op 24
[W4] Contact Output 24 Operate	OFF
[W4] Contact Output 24 Seal-In	OFF
[W4] Contact Output 24 Events	Disabled
[W5] Contact Output 25 ID	Cont Op 25
[W5] Contact Output 25 Operate	OFF
[W5] Contact Output 25 Seal-In	OFF
[W5] Contact Output 25 Events	Disabled
[W6] Contact Output 26 ID	Cont Op 26
[W6] Contact Output 26 Operate	OFF
[W6] Contact Output 26 Seal-In	OFF
[W6] Contact Output 26 Events	Disabled
[W7] Contact Output 27 ID	Cont Op 27
[W7] Contact Output 27 Operate	OFF
[W7] Contact Output 27 Seal-In	OFF
[W7] Contact Output 27 Events	Disabled
[W8] Contact Output 28 ID	Cont Op 28
[W8] Contact Output 28 Operate	TRIPBUS 1 OP
[W8] Contact Output 28 Seal-In	OFF
[W8] Contact Output 28 Events	Disabled

VIRTUAL OUTPUTS

Virtual Output 1 ID	FALLA POT
Virtual Output 1 Events	Enabled

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DEVICE DEFINITION

DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
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 DESCRIPTION: PACO B2  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

VIRTUAL OUTPUTS (continued from last page)

Virtual Output 2 ID	79 OK
Virtual Output 2 Events	Enabled
Virtual Output 3 ID	FALLAS ZONAS
Virtual Output 3 Events	Enabled
Virtual Output 4 ID	AL. RES. DES
Virtual Output 4 Events	Enabled
Virtual Output 5 ID	POT OK
Virtual Output 5 Events	Enabled
Virtual Output 6 ID	INICIO79
Virtual Output 6 Events	Enabled
Virtual Output 7 ID	BLOQUEO79
Virtual Output 7 Events	Enabled
Virtual Output 8 ID	SUP79OK
Virtual Output 8 Events	Enabled
Virtual Output 9 ID	AL ZONA1
Virtual Output 9 Events	Enabled
Virtual Output 10 ID	AL ZONA2
Virtual Output 10 Events	Enabled
Virtual Output 11 ID	AL TRIP F-F
Virtual Output 11 Events	Enabled
Virtual Output 12 ID	AL TRIP F-N
Virtual Output 12 Events	Enabled
Virtual Output 13 ID	AL ZONA 3
Virtual Output 13 Events	Enabled
Virtual Output 14 ID	Virt Op 14
Virtual Output 14 Events	Disabled
Virtual Output 15 ID	Virt Op 15
Virtual Output 15 Events	Disabled
Virtual Output 16 ID	Virt Op 16
Virtual Output 16 Events	Disabled
Virtual Output 17 ID	Virt Op 17
Virtual Output 17 Events	Disabled
Virtual Output 18 ID	Virt Op 18
Virtual Output 18 Events	Disabled
Virtual Output 19 ID	Virt Op 19
Virtual Output 19 Events	Disabled
Virtual Output 20 ID	Virt Op 20
Virtual Output 20 Events	Disabled
Virtual Output 21 ID	Virt Op 21
Virtual Output 21 Events	Disabled
Virtual Output 22 ID	Virt Op 22
Virtual Output 22 Events	Disabled
Virtual Output 23 ID	Virt Op 23
Virtual Output 23 Events	Disabled
Virtual Output 24 ID	Virt Op 24
Virtual Output 24 Events	Disabled
Virtual Output 25 ID	Virt Op 25
Virtual Output 25 Events	Disabled
Virtual Output 26 ID	Virt Op 26
Virtual Output 26 Events	Disabled
Virtual Output 27 ID	Virt Op 27
Virtual Output 27 Events	Disabled
Virtual Output 28 ID	Virt Op 28
Virtual Output 28 Events	Disabled
Virtual Output 29 ID	Virt Op 29
Virtual Output 29 Events	Disabled
Virtual Output 30 ID	Virt Op 30
Virtual Output 30 Events	Disabled
Virtual Output 31 ID	Virt Op 31
Virtual Output 31 Events	Disabled
Virtual Output 32 ID	Virt Op 32
Virtual Output 32 Events	Disabled
Virtual Output 33 ID	Virt Op 33
Virtual Output 33 Events	Disabled
Virtual Output 34 ID	Virt Op 34
Virtual Output 34 Events	Disabled
Virtual Output 35 ID	Virt Op 35
Virtual Output 35 Events	Disabled
Virtual Output 36 ID	Virt Op 36
Virtual Output 36 Events	Disabled
Virtual Output 37 ID	Virt Op 37



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 VERIF. PS1 PACO B01 SE LMO\_06.08.2020\06-08-2020\B2\SE LMO BACKUP DEJADO PS2 PACO B02\_06082020\

## DEVICE DEFINITION

## DEVICES

ORDER CODE: D60-N00-HKH-F8L-H6D-M6U-P6U-U67-W67  
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 DESCRIPTION: PACO B2  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

## VIRTUAL OUTPUTS (continued from last page)

Virtual Output 37 Events	Disabled
Virtual Output 38 ID	Virt Op 38
Virtual Output 38 Events	Disabled
Virtual Output 39 ID	Virt Op 39
Virtual Output 39 Events	Disabled
Virtual Output 40 ID	Virt Op 40
Virtual Output 40 Events	Disabled
Virtual Output 41 ID	Virt Op 41
Virtual Output 41 Events	Disabled
Virtual Output 42 ID	Virt Op 42
Virtual Output 42 Events	Disabled
Virtual Output 43 ID	Virt Op 43
Virtual Output 43 Events	Disabled
Virtual Output 44 ID	Virt Op 44
Virtual Output 44 Events	Disabled
Virtual Output 45 ID	Virt Op 45
Virtual Output 45 Events	Disabled
Virtual Output 46 ID	Virt Op 46
Virtual Output 46 Events	Disabled
Virtual Output 47 ID	Virt Op 47
Virtual Output 47 Events	Disabled
Virtual Output 48 ID	Virt Op 48
Virtual Output 48 Events	Disabled
Virtual Output 49 ID	Virt Op 49
Virtual Output 49 Events	Disabled
Virtual Output 50 ID	Virt Op 50
Virtual Output 50 Events	Disabled
Virtual Output 51 ID	Virt Op 51
Virtual Output 51 Events	Disabled
Virtual Output 52 ID	Virt Op 52
Virtual Output 52 Events	Disabled
Virtual Output 53 ID	Virt Op 53
Virtual Output 53 Events	Disabled
Virtual Output 54 ID	Virt Op 54
Virtual Output 54 Events	Disabled
Virtual Output 55 ID	Virt Op 55
Virtual Output 55 Events	Disabled
Virtual Output 56 ID	Virt Op 56
Virtual Output 56 Events	Disabled
Virtual Output 57 ID	Virt Op 57
Virtual Output 57 Events	Disabled
Virtual Output 58 ID	Virt Op 58
Virtual Output 58 Events	Disabled
Virtual Output 59 ID	Virt Op 59
Virtual Output 59 Events	Disabled
Virtual Output 60 ID	Virt Op 60
Virtual Output 60 Events	Disabled
Virtual Output 61 ID	Virt Op 61
Virtual Output 61 Events	Disabled
Virtual Output 62 ID	Virt Op 62
Virtual Output 62 Events	Disabled
Virtual Output 63 ID	Virt Op 63
Virtual Output 63 Events	Disabled
Virtual Output 64 ID	Virt Op 64
Virtual Output 64 Events	Disabled
Virtual Output 65 ID	Virt Op 65
Virtual Output 65 Events	Disabled
Virtual Output 66 ID	Virt Op 66
Virtual Output 66 Events	Disabled
Virtual Output 67 ID	Virt Op 67
Virtual Output 67 Events	Disabled
Virtual Output 68 ID	Virt Op 68
Virtual Output 68 Events	Disabled
Virtual Output 69 ID	Virt Op 69
Virtual Output 69 Events	Disabled
Virtual Output 70 ID	Virt Op 70
Virtual Output 70 Events	Disabled
Virtual Output 71 ID	Virt Op 71
Virtual Output 71 Events	Disabled
Virtual Output 72 ID	Virt Op 72
Virtual Output 72 Events	Disabled

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DEVICE DEFINITION

DEVICES

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 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

VIRTUAL OUTPUTS (continued from last page)

Virtual Output 73 ID	Virt Op 73
Virtual Output 73 Events	Disabled
Virtual Output 74 ID	Virt Op 74
Virtual Output 74 Events	Disabled
Virtual Output 75 ID	Virt Op 75
Virtual Output 75 Events	Disabled
Virtual Output 76 ID	Virt Op 76
Virtual Output 76 Events	Disabled
Virtual Output 77 ID	Virt Op 77
Virtual Output 77 Events	Disabled
Virtual Output 78 ID	Virt Op 78
Virtual Output 78 Events	Disabled
Virtual Output 79 ID	Virt Op 79
Virtual Output 79 Events	Disabled
Virtual Output 80 ID	TRIP 21-21
Virtual Output 80 Events	Enabled
Virtual Output 81 ID	TRIP 21-21N
Virtual Output 81 Events	Enabled
Virtual Output 82 ID	TRIP 67N
Virtual Output 82 Events	Enabled
Virtual Output 83 ID	Virt Op 83
Virtual Output 83 Events	Disabled
Virtual Output 84 ID	Virt Op 84
Virtual Output 84 Events	Disabled
Virtual Output 85 ID	Virt Op 85
Virtual Output 85 Events	Disabled
Virtual Output 86 ID	Virt Op 86
Virtual Output 86 Events	Disabled
Virtual Output 87 ID	Virt Op 87
Virtual Output 87 Events	Disabled
Virtual Output 88 ID	Virt Op 88
Virtual Output 88 Events	Disabled
Virtual Output 89 ID	Virt Op 89
Virtual Output 89 Events	Disabled
Virtual Output 90 ID	Virt Op 90
Virtual Output 90 Events	Disabled
Virtual Output 91 ID	Virt Op 91
Virtual Output 91 Events	Disabled
Virtual Output 92 ID	Virt Op 92
Virtual Output 92 Events	Disabled
Virtual Output 93 ID	Virt Op 93
Virtual Output 93 Events	Disabled
Virtual Output 94 ID	Virt Op 94
Virtual Output 94 Events	Disabled
Virtual Output 95 ID	Virt Op 95
Virtual Output 95 Events	Disabled
Virtual Output 96 ID	Virt Op 96
Virtual Output 96 Events	Disabled

RESETTING

Operand OFF

## CONTROL DE REVISIÓN DEL CRAP

REVISOR	FECHA	N° EAP	OBSERVACIONES
Sin Antecedente	28/04/2010	15/2010	Instalación de una nueva protección D60.
Sin Antecedente	06/03/2013	13/2013	Modificación del umbral de line pick up de 1 p.u a 2 p.u.
Alonso González	06/03/2013	---	Se actualiza formato CRAP y Ajustes equipos GE D60
Alonso González	16/06/2020	15/2020	Modificación método de direccionalidad en equipo GE D60.

\* En las observaciones se debe indicar las protecciones que se modifican respecto a la revisión anterior

## Razón de TTCC/TTPP

$TTCC: 150/5$

$$TTPP: \frac{69000}{\sqrt{3}} / 115 / \frac{115}{\sqrt{3}}$$

## Particularidades de Ajustes

- Sin esquema de teleprotección

## Ajustes relevantes

FUNCIÓN	PARÁMETROS/TIPO	VALOR/CANTIDAD
Line Pickup (SOTF)	Phase IOC UV Pickup	2.000 [pu] 300 amp. Prim 0.800 [pu] 31907.5 V. prim
67N	$I_{pickup}$	0.300 [pu] 45 amp. primarios
79	Modo Secuencia	3 Pole-B 1

## S/E Ovalle

### Línea 66 kV Los Molles – Ovalle, Circuito 1 y 2

#### 1.-Protección de distancia

$$TT / CC = \frac{150}{5} \quad TT / PP = \frac{69000}{\sqrt{3}} \Big/ 115 \Big/ \frac{115}{\sqrt{3}}$$

##### 1.1.-Relés para fallas entre fases GCX 17 A

Ajuste del tap input : 100 %

Ajustes : tap número 1 : 42 % ( 1,19 ohms sec. a 90°)  
tap número 2 : 25 % ( 2,0 ohms sec. a 90°)  
tap E2 : 73 % ( 3,42 ohms sec. a 60°)

Tiempos de operación: segunda zona : 0,5 seg.  
tercera zona : 0,9 seg.

#### 2.-Protección direccional de sobrecorriente residual de tiempo muy inverso

$$TT / CC = \frac{150}{5} \quad TT / PP = \frac{69000}{\sqrt{3}} \Big/ 115 \Big/ \frac{115}{\sqrt{3}}$$

Relé MCGG21 + METI12

##### 2.1.-Características de tiempo: Muy inverso ( V.I. ) – IEC B

-Posición de clavijas : 1-0-0

##### 2.2.-Ajustes de corrientes de operación

-Elemento de tiempo (Is):

-Valor de ajuste : 0,2 x In  
-Clavijas activas : 0,2  
-Corriente de operación : 1,0 Amp.

-Elemento instantáneo (Iinst):

-Valor de ajuste : 14 x Is  
-Clavijas activas : 2 + 4 + 8  
-Corriente de operación : 14 Amp.

### 2.3.-Ajustes de tiempo (xt)

- Valor de ajuste : 0,5
- Clavijas activas : 0,05+0,05+0,4
- Tiempos de operación : 3 x pick-up: 3,38 s  
5 x pick-up: 1,69 s  
8 x pick-up: 0,96 s.

### 2.4.-Unidad direccional (relé METI12)

- Angulo característico (RCA):  $-60^{\circ}$

## 3.-Protección de respaldo

### 3.1.-Relé de tiempo PA 1

Tiempo de operación : 0,5 seg.

Nota 1.-Este relé es energizado por las protecciones de los puntos 1 y 2 y da orden de desenganche a todos los interruptores de la barra de 66 KV.

## 4.-Esquema de reconexión

### 4.1.-Relé P4wa

Contactador de tiempo de reconexión PR5 (contactor "a")

Ajuste : 2,0 seg.

Contactador de tiempo de bloqueo PR5 (contactor "b")

Ajuste : 5,0 seg.

Contactador de tiempo de supervisión presión de aire PR1  
(contactor "d")

Ajuste : 1,0 seg.

Nota 2.-La reconexión automática es habilitada por la operación de la protección de distancia para fallas entre fases, en primera zona, y por la operación del elemento instantáneo de la protección residual. La orden de reconexión es supervisada por la posición del interruptor del circuito paralelo.

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DEVICE DEFINITION

DEVICES

ORDER CODE: D60-N00-HKL-F8L-H6D-M6U-P6U-U67-W67  
VERSION: 5.50  
UR SERIAL NUMBER: AABC08000478  
SETTINGS SENT TO RELAY: TUESDAY, JUNE 16, 2020 00:09:23  
DESCRIPTION: PACO B2  
TEXT COLOR  
ASSOCIATED DEVICE: (NONE)

RELAY INFORMATION

Main Firmware: 550  
Boot Firmware: 301  
Relay Serial Number: AABC08000478  
CPU Serial Number: A9NC08000929  
F8L Module Serial Number: A8LC08003169  
H6D Module Serial Number: A6DC08001832  
M6U Module Serial Number: A6UC08001624  
P6U Module Serial Number: A6UC08001625  
U67 Module Serial Number: A67C08001906  
W67 Module Serial Number: A67C08001900  
Settings Sent to Relay: Tuesday, June 16, 2020 00:09:23

PRODUCT SETUP

SECURITY

Command Password: 0  
Setting Password: 0  
Command Password Access Timeout: 5 min  
Setting Password Access Timeout: 30 min  
Invalid Password Attempts: 3  
Password Lockout Duration: 5 min  
Password Access Events: Disabled

DISPLAY PROPERTIES

Flash Message Time: 1.0 s  
Default Message Timeout: 300 s  
Default Message Intensity (VFD Only): 25 %  
Screen Saver Feature (LCD Only): Enabled  
Screen Saver Wait Time (LCD Only): 2 min  
Current Cutoff Level: 0.020 pu  
Voltage Cutoff Level: 1.0 V

COMMUNICATIONS

SERIAL PORTS

RS485 Com2 Baud Rate: 19200  
RS485 Com2 Parity: None  
RS485 Com2 Response Min Time: 0 ms

NETWORK

IP Address: 10.90.38.136  
IP Subnet Mask: 255.255.255.0  
Gateway IP Address: 0.0.0.0

MODBUS PROTOCOL

Modbus Slave Address: 254  
Modbus TCP Port Number: 502

DNP PROTOCOL

DNP Channel 1 Port: NETWORK - TCP  
DNP Channel 2 Port: NONE  
DNP Address: 32  
DNP Client Address 1: 10.90.38.130  
DNP Client Address 2: 0.0.0.0  
DNP Client Address 3: 0.0.0.0  
DNP Client Address 4: 0.0.0.0  
DNP Client Address 5: 0.0.0.0  
DNP TCP/UDP Port Number: 20000  
DNP Unsol Resp Function: Disabled  
DNP Unsol Resp Timeout: 5 s  
DNP Unsol Resp Max Retries: 10  
DNP Unsol Resp Dest Addr: 100  
DNP Current Scale Factor: 1  
DNP Voltage Scale Factor: 1  
DNP Power Scale Factor: 1  
DNP Energy Scale Factor: 1  
DNP Power Factor Scale Factor: 1

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TEXT COLOR  
ASSOCIATED DEVICE: (NONE)

DNP PROTOCOL (continued from last page)

DNP Other Scale Factor	1
DNP Current Default Deadband	30000
DNP Voltage Default Deadband	30000
DNP Power Default Deadband	30000
DNP Energy Default Deadband	30000
DNP Power Factor Default Deadband	30000
DNP Other Default Deadband	30000
DNP Time Sync IIN Period	1440 min
DNP Message Fragment Size	240
DNP Number of Paired Controls	0
DNP TCP Connection Timeout	120 s
DNP Object 1 Default Variation	2
DNP Object 2 Default Variation	2
DNP Object 30 Default Variation	1
DNP Object 20 Default Variation	1
DNP Object 21 Default Variation	1
DNP Object 22 Default Variation	1
DNP Object 23 Default Variation	1
DNP Object 32 Default Variation	1

DNP - IEC104 POINTS LISTS

DNP Binary Input Point 0	ANY MAJOR ERROR
DNP Binary Input Point 1	LED TEST MODE
DNP Binary Input Point 2	IRIG-b FAILURE
DNP Binary Input Point 3	SRC1 VT FUSE FAIL OP
DNP Binary Input Point 4	PRI ETHERNET FAIL
DNP Binary Input Point 5	ON
DNP Binary Input Point 6	BKR FAIL 1 T1 OP
DNP Binary Input Point 7	21-21 phase On (VO17)
DNP Binary Input Point 8	21-21N On (VO18)
DNP Binary Input Point 9	LINE PICKUP OP
DNP Binary Input Point 10	Z1 On (VO14)
DNP Binary Input Point 11	Z2 On (VO15)
DNP Binary Input Point 12	Z3 On (VO16)
DNP Binary Input Point 13	ON
DNP Binary Input Point 14	ON
DNP Binary Input Point 15	ON
DNP Binary Input Point 16	TRIP On (VO1)
DNP Binary Input Point 17	LED PHASE A
DNP Binary Input Point 18	LED PHASE B
DNP Binary Input Point 19	LED PHASE C
DNP Binary Input Point 20	ON
DNP Binary Input Point 21	ON
DNP Binary Input Point 22	ON
DNP Binary Input Point 23	PHASE TOC1 OP
DNP Binary Input Point 24	NEUTRAL TOC1 OP
DNP Binary Input Point 25	PH DIR1 BLK
DNP Binary Input Point 26	NTRL DIR OC1 FWD
DNP Binary Input Point 27	ON
DNP Binary Input Point 28	POWER SWING BLOCK
DNP Binary Input Point 29	AR CLOSE BKR 1
DNP Analog Input Point 0	Fault Location [1]

HTTP

HTTP TCP Port Number	80
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TFTP

TFTP Main UDP Port Number	69
TFTP Data UDP Port Number 1	0
TFTP Data UDP Port Number 2	0

REAL TIME CLOCK

IRIG-B Signal Type	DC Shift
Real Time Clock Events	Enabled
Time Zone Offset	7.0 hr



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DEVICE DEFINITION

DEVICES

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 VERSION: 5.50  
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 SETTINGS SENT TO RELAY: TUESDAY, JUNE 16, 2020 00:09:23  
 DESCRIPTION: PACO B2  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

REAL TIME CLOCK (continued from last page)

DST Function	Enabled
DST Start Month	March
DST Start Day	Sunday
DST Start Day Instance	Second
DST Start Hour	2
DST Stop Month	October
DST Stop Day	Sunday
DST Stop Day Instance	Second
DST Stop Hour	2

FAULT REPORT

Fault Report 1 Source	APORTE (SRC 1)
Fault Report 1 Trigger	TRIP On (VO1)
Fault Report 1 Positive Seq (Z1) Mag	1.55 ohms
Fault Report 1 Positive Seq (Z1) Angle	59 deg
Fault Report 1 Zero Seq (Z0) Mag	5.16 ohms
Fault Report 1 Zero Seq (Z0) Angle	76 deg
Fault Report 1 Line Length Units	km
Fault Report 1 Line Length	66.8
Fault Report 1 VT Substitution	None
Fault Report 1 System Z0 Mag	1.99 ohms
Fault Report 1 System Z0 Angle	75 deg

OSCILLOGRAPHY

Number Of Records	15
Trigger Mode	Automatic Overwrite
Trigger Position	30 %
Trigger Source	Osc Trigger On (VO64)
AC Input Waveforms	32 samples/cycle
Digital Channel 1	PH DIR1 BLK
Digital Channel 2	PH DIST Z1 OP
Digital Channel 3	GND DIST Z1 OP
Digital Channel 4	PH DIST Z2 OP
Digital Channel 5	GND DIST Z2 OP
Digital Channel 6	PH DIST Z3 OP
Digital Channel 7	GND DIST Z3 OP
Digital Channel 8	LINE PICKUP OP
Digital Channel 9	AR ENABLED
Digital Channel 10	AR DISABLED
Digital Channel 11	AR RIP
Digital Channel 12	AR LO
Digital Channel 13	AR RESET
Digital Channel 14	TRIP On (VO1)
Digital Channel 15	SRC1 VT FUSE FAIL OP
Digital Channel 16	SRC1 50DD OP
Digital Channel 17	63A1-Y/52B2 On(H1c)
Digital Channel 18	52B2 Off(H1a)
Digital Channel 19	AR CLOSE BKR 1
Digital Channel 20	AR BKR 1 BLK
Digital Channel 21	SYNC 1 CLS OP
Digital Channel 22	PH DIST Z1 PKP
Digital Channel 23	PH DIST Z2 PKP
Digital Channel 24	PH DIST Z3 PKP
Digital Channel 25	GND DIST Z1 PKP
Digital Channel 26	GND DIST Z2 PKP
Digital Channel 27	GND DIST Z3 PKP
Digital Channel 28	LINE PICKUP PKP
Digital Channel 29	NEUTRAL TOC1 OP
Digital Channel 30	NEUTRAL TOC1 PKP
Digital Channel 31	NEUTRAL IOC1 OP
Digital Channel 32	NEUTRAL IOC1 PKP
Digital Channel 33	NTRL DIR OC1 FWD
Digital Channel 34	NTRL DIR OC1 REV
Digital Channel 35	79 ON On (VO8)
Analog Channel 1	SRC1 1a Mag

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TEXT COLOR  
ASSOCIATED DEVICE: (NONE)

OSCILLOGRAPHY (continued from last page)

Analog Channel 2	SRC1	Ib Mag
Analog Channel 3	SRC1	Ic Mag
Analog Channel 4	SRC1	Ig Mag
Analog Channel 5	SRC1	Vag Mag
Analog Channel 6	SRC1	Vbg Mag
Analog Channel 7	SRC1	Vcg Mag
Analog Channel 8	SRC1	Frequency
Analog Channel 9	SRC1	P
Analog Channel 10	SRC1	Q
Analog Channel 11	SRC1	S
Analog Channel 12	SRC1	I_1 Mag
Analog Channel 13	SRC1	I_1 Angle
Analog Channel 14	SRC1	I_2 Mag
Analog Channel 15	SRC1	I_2 Angle
Analog Channel 16	SRC1	I_0 Mag

DATA LOGGER

Data Logger Mode	Continuous
Data Logger Trigger	Osc Trigger On (VO64)
Rate	60000 msec
Channel 1	SRC1 Ia RMS
Channel 2	SRC1 Ib RMS
Channel 3	SRC1 Ic RMS
Channel 4	SRC1 Vab RMS
Channel 5	SRC1 Vbc RMS
Channel 6	SRC1 Vca RMS
Channel 7	SRC1 I_0 Mag
Channel 8	SRC1 I_1 Mag
Channel 9	SRC1 I_2 Mag
Channel 10	SRC1 V_0 Mag
Channel 11	SRC1 V_1 Mag
Channel 12	SRC1 V_2 Mag
Configuration	--- CHNL x --- DAYS

USER-PROGRAMMABLE LEDES

TRIP AND ALARMS LEDES

Trip LED Input	TRIP On (VO1)
----------------	---------------

USER PROGRAMMABLE LEDES

LED 1: OPERAND	BREAKER 1 OPEN
LED 1: TYPE	Self-Reset
LED 2: OPERAND	BREAKER 1 CLOSED
LED 2: TYPE	Self-Reset
LED 13: OPERAND	SYNC 1 SYNC OP
LED 13: TYPE	Self-Reset
LED 17: OPERAND	AR ENABLED
LED 17: TYPE	Self-Reset
LED 18: OPERAND	AR DISABLED
LED 18: TYPE	Self-Reset
LED 19: OPERAND	AR RIP
LED 19: TYPE	Self-Reset
LED 20: OPERAND	AR LO
LED 20: TYPE	Self-Reset
LED 25: OPERAND	GND DIST Z1 OP
LED 25: TYPE	Latched
LED 26: OPERAND	GND DIST Z2 OP
LED 26: TYPE	Latched
LED 27: OPERAND	GND DIST Z3 OP
LED 27: TYPE	Latched
LED 28: OPERAND	PH DIST Z1 OP
LED 28: TYPE	Latched
LED 29: OPERAND	PH DIST Z2 OP
LED 29: TYPE	Latched
LED 30: OPERAND	PH DIST Z3 OP
LED 30: TYPE	Latched

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DEVICE DEFINITION

DEVICES

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 DESCRIPTION: PACO B2  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

USER PROGRAMMABLE LEADS (continued from last page)

LED 32: OPERAND	63A1-Y/52B2 On(H1c)
LED 32: TYPE	Latched
LED 33: OPERAND	Osc Trigger On (VO64)
LED 33: TYPE	Latched
LED 34: OPERAND	PARTIDA 86 On (VO10)
LED 34: TYPE	Latched
LED 35: OPERAND	BREAKER 2 OPEN
LED 35: TYPE	Self-Reset
LED 36: OPERAND	NEUTRAL TOC1 OP
LED 36: TYPE	Latched

USER-PROGRAMMABLE SELF TESTS

Pri Ethernet Fail Function	Enabled
Battery Fail Function	Enabled
SNTP Fail Function	Enabled
IRIG B Fail Function	Enabled

FLEX STATES

Parameter 1	AR BKR 1 BLK
Parameter 2	BREAKER 1 OPEN
Parameter 3	BREAKER 1 OOS
Parameter 4	63A1-Y/52B2 On(H1c)

USER-DEFINABLE DISPLAYS

USER DISPLAY 1: Top Line	LINEA MOL-OVA
USER DISPLAY 1: Bottom Line	LINEA 2
USER DISPLAY 1: Item 1	0
USER DISPLAY 1: Item 2	0
USER DISPLAY 1: Item 3	0
USER DISPLAY 1: Item 4	0
USER DISPLAY 1: Item 5	0
USER DISPLAY 2: Top Line	Ia ~[A] Ib ~[A]
USER DISPLAY 2: Bottom Line	Ic ~[A]
USER DISPLAY 2: Item 1	6144
USER DISPLAY 2: Item 2	6146
USER DISPLAY 2: Item 3	6148
USER DISPLAY 2: Item 4	0
USER DISPLAY 2: Item 5	0
USER DISPLAY 3: Top Line	Uab~[V] Ubc~[V]
USER DISPLAY 3: Bottom Line	Uca~[V]
USER DISPLAY 3: Item 1	6677
USER DISPLAY 3: Item 2	6680
USER DISPLAY 3: Item 3	6683
USER DISPLAY 3: Item 4	0
USER DISPLAY 3: Item 5	0
USER DISPLAY 4: Top Line	LOC. FALLAS
USER DISPLAY 4: Bottom Line	~
USER DISPLAY 4: Item 1	9061
USER DISPLAY 4: Item 2	0
USER DISPLAY 4: Item 3	0
USER DISPLAY 4: Item 4	0
USER DISPLAY 4: Item 5	0
Invoke and Scroll	OFF

INSTALLATION

Relay Name	LINEA NORTE
------------	-------------

SYSTEM SETUP

AC INPUTS

CURRENT

CT F1: Phase CT Primary	150 A
CT F1: Phase CT Secondary	5 A
CT F1: Ground CT Primary	1 A
CT F1: Ground CT Secondary	1 A

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DEVICE DEFINITION

DEVICES

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 DESCRIPTION: PACO B2  
 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

VOLTAGE

VT F5: Phase VT Connection	Wye
VT F5: Phase VT Secondary	66.4 V
VT F5: Phase VT Ratio	600.00 :1
VT F5: Auxiliary VT Connection	Vag
VT F5: Auxiliary VT Secondary	66.4 V
VT F5: Auxiliary VT Ratio	346.41 :1

POWER SYSTEM

Nominal Frequency	50 Hz
Phase Rotation	ABC
Frequency And Phase Reference	APORTE (SRC 1)
Frequency Tracking Function	Enabled

SIGNAL SOURCES

SOURCE 1: Name	APORTE
SOURCE 1: Phase CT	F1
SOURCE 1: Ground CT	None
SOURCE 1: Phase VT	F5
SOURCE 1: Auxiliary VT	None
SOURCE 2: Name	AUX
SOURCE 2: Phase CT	None
SOURCE 2: Ground CT	None
SOURCE 2: Phase VT	None
SOURCE 2: Auxiliary VT	F5

BREAKERS

Breaker 1 Function	Enabled
Breaker 1 Push Button Control	OFF
Breaker 1 Name	52B2
Breaker 1 Mode	3-Pole
Breaker 1 Open	52B2 On(H1a)
Breaker 1 Block Open	63A1-Y/52B2 On(H1c)
Breaker 1 Close	52B2 Off(H1a)
Breaker 1 Block Close	63A1-Y/52B2 On(H1c)
Breaker 1 Phase A/3-Pole Closed	52B2 Off(H1a)
Breaker 1 Phase A/3-Pole Opened	52B2 On(H1a)
Breaker 1 Phase B Closed	OFF
Breaker 1 Phase B Opened	OFF
Breaker 1 Phase C Closed	OFF
Breaker 1 Phase C Opened	OFF
Breaker 1 Toperate	0.070 s
Breaker 1 External Alarm	OFF
Breaker 1 Alarm Delay	0.000 s
Breaker 1 Manual Close Recal Time	0.000 s
Breaker 1 Out Of Service	OFF
Breaker 1 Events	Enabled
Breaker 2 Function	Enabled
Breaker 2 Push Button Control	OFF
Breaker 2 Name	52B1
Breaker 2 Mode	3-Pole
Breaker 2 Open	52B1 On(H5a)
Breaker 2 Block Open	OFF
Breaker 2 Close	52B1 Off(H5a)
Breaker 2 Block Close	OFF
Breaker 2 Phase A/3-Pole Closed	52B1 Off(H5a)
Breaker 2 Phase A/3-Pole Opened	52B1 On(H5a)
Breaker 2 Phase B Closed	OFF
Breaker 2 Phase B Opened	OFF
Breaker 2 Phase C Closed	OFF
Breaker 2 Phase C Opened	OFF
Breaker 2 Toperate	0.070 s
Breaker 2 External Alarm	OFF
Breaker 2 Alarm Delay	0.000 s
Breaker 2 Manual Close Recal Time	0.000 s
Breaker 2 Out Of Service	OFF

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 TEXT COLOR  
 ASSOCIATED DEVICE: (NONE)

BREAKERS (continued from last page)

Breaker 2 Events Enabled

FLEXLOGIC

FLEXLOGIC EQUATION EDITOR

FlexLogic Entry 1	GND DIST Z1 OP
FlexLogic Entry 2	POSITIVE ONE SHOT
FlexLogic Entry 3	GND DIST Z2 OP
FlexLogic Entry 4	POSITIVE ONE SHOT
FlexLogic Entry 5	GND DIST Z3 OP
FlexLogic Entry 6	POSITIVE ONE SHOT
FlexLogic Entry 7	NEUTRAL IOC1 OP
FlexLogic Entry 8	POSITIVE ONE SHOT
FlexLogic Entry 9	OR(4)
FlexLogic Entry 10	PH DIST Z1 OP
FlexLogic Entry 11	POSITIVE ONE SHOT
FlexLogic Entry 12	PH DIST Z2 OP
FlexLogic Entry 13	POSITIVE ONE SHOT
FlexLogic Entry 14	PH DIST Z3 OP
FlexLogic Entry 15	POSITIVE ONE SHOT
FlexLogic Entry 16	LINE PICKUP OP
FlexLogic Entry 17	POSITIVE ONE SHOT
FlexLogic Entry 18	NEUTRAL TOC1 OP
FlexLogic Entry 19	POSITIVE ONE SHOT
FlexLogic Entry 20	79 ON On (VO8)
FlexLogic Entry 21	POSITIVE ONE SHOT
FlexLogic Entry 22	OR(6)
FlexLogic Entry 23	OR(2)
FlexLogic Entry 24	= Osc Trigger (VO64)
FlexLogic Entry 25	LINE PICKUP OP
FlexLogic Entry 26	GND DIST Z1 OP
FlexLogic Entry 27	GND DIST Z2 OP
FlexLogic Entry 28	GND DIST Z3 OP
FlexLogic Entry 29	PH DIST Z1 OP
FlexLogic Entry 30	PH DIST Z2 OP
FlexLogic Entry 31	PH DIST Z3 OP
FlexLogic Entry 32	NEUTRAL TOC1 OP
FlexLogic Entry 33	NEUTRAL IOC1 OP
FlexLogic Entry 34	OR(9)
FlexLogic Entry 35	POSITIVE ONE SHOT
FlexLogic Entry 36	= TRIP (VO1)
FlexLogic Entry 37	GND DIST Z2 OP
FlexLogic Entry 38	GND DIST Z3 OP
FlexLogic Entry 39	PH DIST Z2 OP
FlexLogic Entry 40	PH DIST Z3 OP
FlexLogic Entry 41	OR(4)
FlexLogic Entry 42	= REP Z2 Z3 (VO11)
FlexLogic Entry 43	PH DIST Z1 OP
FlexLogic Entry 44	GND DIST Z1 OP
FlexLogic Entry 45	NEUTRAL TOC1 OP
FlexLogic Entry 46	79/B On(H2c)
FlexLogic Entry 47	OR(4)
FlexLogic Entry 48	= HABILITA 79 (VO2)
FlexLogic Entry 49	PH DIST Z2 OP
FlexLogic Entry 50	GND DIST Z2 OP
FlexLogic Entry 51	PH DIST Z3 OP
FlexLogic Entry 52	GND DIST Z3 OP
FlexLogic Entry 53	NEUTRAL TOC1 OP
FlexLogic Entry 54	LINE PICKUP OP
FlexLogic Entry 55	79/C On(H2a)
FlexLogic Entry 56	POSITIVE ONE SHOT
FlexLogic Entry 57	BLOQUEO 79 On(H3a)
FlexLogic Entry 58	79/B On(H2c)
FlexLogic Entry 59	NOT
FlexLogic Entry 60	TIMER 1
FlexLogic Entry 61	AND(2)

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DEVICE DEFINITION

DEVICES

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 ASSOCIATED DEVICE: (NONE)

FLEXLOGIC EQUATION EDITOR (continued from last page)

FlexLogic Entry 62	OR(8)
FlexLogic Entry 63	= 79/c (VO3)
FlexLogic Entry 64	TELECONTROL On(H6a)
FlexLogic Entry 65	AR CLOSE BKR 1
FlexLogic Entry 66	BREAKER 1 CLOSED
FlexLogic Entry 67	LATCH
FlexLogic Entry 68	NOR(2)
FlexLogic Entry 69	= BLOQUEO 25 (VO12)
FlexLogic Entry 70	79/c On (VO3)
FlexLogic Entry 71	NOT
FlexLogic Entry 72	TIMER 3
FlexLogic Entry 73	= VIA 79/c (VO4)
FlexLogic Entry 74	79/D On(H3c)
FlexLogic Entry 75	BREAKER 1 CLOSED
FlexLogic Entry 76	AND(2)
FlexLogic Entry 77	= 79/d (VO5)
FlexLogic Entry 78	AR CLOSE BKR 1
FlexLogic Entry 79	SYNC 1 CLS OP
FlexLogic Entry 80	AND(2)
FlexLogic Entry 81	= 79 ON (VO8)
FlexLogic Entry 82	AR LO
FlexLogic Entry 83	TIMER 8
FlexLogic Entry 84	= 79 RESET (VO9)
FlexLogic Entry 85	PH DIST Z1 OP
FlexLogic Entry 86	GND DIST Z1 OP
FlexLogic Entry 87	AND(2)
FlexLogic Entry 88	= PARTIDA 86 (VO10)
FlexLogic Entry 89	SYNC 1 CLS OP
FlexLogic Entry 90	TELECONTROL On(H6a)
FlexLogic Entry 91	AND(2)
FlexLogic Entry 92	= BLQ MC (VO13)
FlexLogic Entry 93	PH DIST Z1 OP
FlexLogic Entry 94	GND DIST Z1 OP
FlexLogic Entry 95	OR(2)
FlexLogic Entry 96	= Z1 (VO14)
FlexLogic Entry 97	PH DIST Z2 OP
FlexLogic Entry 98	GND DIST Z2 OP
FlexLogic Entry 99	OR(2)
FlexLogic Entry 100	= Z2 (VO15)
FlexLogic Entry 101	PH DIST Z3 OP
FlexLogic Entry 102	GND DIST Z3 OP
FlexLogic Entry 103	OR(2)
FlexLogic Entry 104	= Z3 (VO16)
FlexLogic Entry 105	PH DIST Z1 OP
FlexLogic Entry 106	PH DIST Z2 OP
FlexLogic Entry 107	PH DIST Z3 OP
FlexLogic Entry 108	OR(3)
FlexLogic Entry 109	= 21-21 phase (VO17)
FlexLogic Entry 110	GND DIST Z1 OP
FlexLogic Entry 111	GND DIST Z2 OP
FlexLogic Entry 112	GND DIST Z3 OP
FlexLogic Entry 113	OR(3)
FlexLogic Entry 114	= 21-21N (VO18)
FlexLogic Entry 115	END

FLEXLOGIC TIMERS

Timer 1: Type	millisecond
Timer 1: Pickup Delay	0
Timer 1: Dropout Delay	2500
Timer 3: Type	millisecond
Timer 3: Pickup Delay	0
Timer 3: Dropout Delay	500
Timer 8: Type	second
Timer 8: Pickup Delay	30
Timer 8: Dropout Delay	1

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GROUPED ELEMENTS

GROUP 1

LINE PICKUP [GROUP 1]

Function	Enabled
Signal Source	APORTE (SRC 1)
Phase IOC Line Pickup	2.000 pu
UV Pickup	0.800 pu
Line End Open Pickup Delay	0.200 s
Line End Open Reset Delay	0.200 s
OV Pickup Delay	0.200 s
Autoreclose Coordination Bypass	Enabled
Autoreclose Coordination Pickup Delay	0.045 s
Autoreclose Coordination Reset Delay	0.005 s
Terminal Open	52B2 On(H1a)
AR Accelerate	OFF
Distance Trip	Enabled
Block	OFF
Target	Latched
Events	Enabled

DISTANCE

DISTANCE [GROUP 1]

Source	APORTE (SRC 1)
Memory Duration	10 cycles
Force Self-Polar	OFF
Force Mem-Polar	OFF

PHASE DISTANCE [GROUP 1]

PHASE DISTANCE Z1: Function	Enabled
PHASE DISTANCE Z1: Direction	Forward
PHASE DISTANCE Z1: Shape	Mho
PHASE DISTANCE Z1: Xfmr Vol Connection	None
PHASE DISTANCE Z1: Xfmr Curr Connection	None
PHASE DISTANCE Z1: Reach	1.37 ohms
PHASE DISTANCE Z1: RCA	60 deg
PHASE DISTANCE Z1: Rev Reach	0.02 ohms
PHASE DISTANCE Z1: Rev Reach RCA	60 deg
PHASE DISTANCE Z1: Comp Limit	90 deg
PHASE DISTANCE Z1: DIR RCA	60 deg
PHASE DISTANCE Z1: DIR Comp Limit	90 deg
PHASE DISTANCE Z1: Quad Right Blinder	10.00 ohms
PHASE DISTANCE Z1: Quad Right Blinder RCA	85 deg
PHASE DISTANCE Z1: Quad Left Blinder	10.00 ohms
PHASE DISTANCE Z1: Quad Left Blinder RCA	85 deg
PHASE DISTANCE Z1: Supervision	0.100 pu
PHASE DISTANCE Z1: Volt Level	0.000 pu
PHASE DISTANCE Z1: Delay	0.000 s
PHASE DISTANCE Z1: Block	SRC1 VT FUSE FAIL OP
PHASE DISTANCE Z1: Target	Latched
PHASE DISTANCE Z1: Events	Enabled
PHASE DISTANCE Z2: Function	Enabled
PHASE DISTANCE Z2: Direction	Forward
PHASE DISTANCE Z2: Shape	Mho
PHASE DISTANCE Z2: Xfmr Vol Connection	None
PHASE DISTANCE Z2: Xfmr Curr Connection	None
PHASE DISTANCE Z2: Reach	2.30 ohms
PHASE DISTANCE Z2: RCA	60 deg
PHASE DISTANCE Z2: Rev Reach	0.02 ohms
PHASE DISTANCE Z2: Rev Reach RCA	60 deg
PHASE DISTANCE Z2: Comp Limit	90 deg
PHASE DISTANCE Z2: DIR RCA	60 deg
PHASE DISTANCE Z2: DIR Comp Limit	90 deg
PHASE DISTANCE Z2: Quad Right Blinder	10.00 ohms
PHASE DISTANCE Z2: Quad Right Blinder RCA	85 deg
PHASE DISTANCE Z2: Quad Left Blinder	10.00 ohms

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 ASSOCIATED DEVICE: (NONE)

PHASE DISTANCE [GROUP 1] (continued from last page)

PHASE DISTANCE Z2: Quad Left Blinder RCA	85 deg
PHASE DISTANCE Z2: Supervision	0.100 pu
PHASE DISTANCE Z2: Volt Level	0.000 pu
PHASE DISTANCE Z2: Delay	0.500 s
PHASE DISTANCE Z2: Block	SRC1 VT FUSE FAIL OP
PHASE DISTANCE Z2: Target	Latched
PHASE DISTANCE Z2: Events	Enabled
PHASE DISTANCE Z3: Function	Enabled
PHASE DISTANCE Z3: Direction	Forward
PHASE DISTANCE Z3: Shape	Mho
PHASE DISTANCE Z3: Xfmr Vol Connection	None
PHASE DISTANCE Z3: Xfmr Curr Connection	None
PHASE DISTANCE Z3: Reach	3.42 ohms
PHASE DISTANCE Z3: RCA	60 deg
PHASE DISTANCE Z3: Rev Reach	0.02 ohms
PHASE DISTANCE Z3: Rev Reach RCA	60 deg
PHASE DISTANCE Z3: Comp Limit	90 deg
PHASE DISTANCE Z3: DIR RCA	60 deg
PHASE DISTANCE Z3: DIR Comp Limit	90 deg
PHASE DISTANCE Z3: Quad Right Blinder	10.00 ohms
PHASE DISTANCE Z3: Quad Right Blinder RCA	85 deg
PHASE DISTANCE Z3: Quad Left Blinder	10.00 ohms
PHASE DISTANCE Z3: Quad Left Blinder RCA	85 deg
PHASE DISTANCE Z3: Supervision	0.100 pu
PHASE DISTANCE Z3: Volt Level	0.000 pu
PHASE DISTANCE Z3: Delay	0.900 s
PHASE DISTANCE Z3: Block	SRC1 VT FUSE FAIL OP
PHASE DISTANCE Z3: Target	Latched
PHASE DISTANCE Z3: Events	Enabled

GROUND DISTANCE [GROUP 1]

GROUND DISTANCE Z1: Function	Enabled
GROUND DISTANCE Z1: Direction	Forward
GROUND DISTANCE Z1: Shape	Mho
GROUND DISTANCE Z1: Z0/Z1 Mag	3.32
GROUND DISTANCE Z1: Z0/Z1 Ang	11 deg
GROUND DISTANCE Z1: Z0M/Z1 Mag	0.00
GROUND DISTANCE Z1: Z0M/Z1 Ang	0 deg
GROUND DISTANCE Z1: Reach	1.02 ohms
GROUND DISTANCE Z1: RCA	60 deg
GROUND DISTANCE Z1: Rev Reach	0.02 ohms
GROUND DISTANCE Z1: Rev Reach RCA	60 deg
GROUND DISTANCE Z1: POL Current	Neg-seq
GROUND DISTANCE Z1: Non-Homogen Ang	0.0 deg
GROUND DISTANCE Z1: Comp Limit	90 deg
GROUND DISTANCE Z1: DIR RCA	60 deg
GROUND DISTANCE Z1: DIR Comp Limit	90 deg
GROUND DISTANCE Z1: Quad Right Blinder	10.00 ohms
GROUND DISTANCE Z1: Quad Right Blinder RCA	85 deg
GROUND DISTANCE Z1: Quad Left Blinder	10.00 ohms
GROUND DISTANCE Z1: Quad Left Blinder RCA	85 deg
GROUND DISTANCE Z1: Supervision	0.100 pu
GROUND DISTANCE Z1: Volt Level	0.000 pu
GROUND DISTANCE Z1: Delay	0.000 s
GROUND DISTANCE Z1: Block	OFF
GROUND DISTANCE Z1: Target	Latched
GROUND DISTANCE Z1: Events	Enabled
GROUND DISTANCE Z2: Function	Enabled
GROUND DISTANCE Z2: Direction	Forward
GROUND DISTANCE Z2: Shape	Mho
GROUND DISTANCE Z2: Z0/Z1 Mag	3.32
GROUND DISTANCE Z2: Z0/Z1 Ang	11 deg
GROUND DISTANCE Z2: Z0M/Z1 Mag	0.00
GROUND DISTANCE Z2: Z0M/Z1 Ang	0 deg
GROUND DISTANCE Z2: Reach	2.70 ohms



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 ASSOCIATED DEVICE: (NONE)

GROUND DISTANCE [GROUP 1] (continued from last page)

GROUND DISTANCE Z2: RCA	60 deg
GROUND DISTANCE Z2: Rev Reach	0.02 ohms
GROUND DISTANCE Z2: Rev Reach RCA	60 deg
GROUND DISTANCE Z2: POL Current	Neg-seq
GROUND DISTANCE Z2: Non-Homogen Ang	0.0 deg
GROUND DISTANCE Z2: Comp Limit	90 deg
GROUND DISTANCE Z2: DIR RCA	60 deg
GROUND DISTANCE Z2: DIR Comp Limit	90 deg
GROUND DISTANCE Z2: Quad Right Blinder	10.00 ohms
GROUND DISTANCE Z2: Quad Right Blinder RCA	85 deg
GROUND DISTANCE Z2: Quad Left Blinder	10.00 ohms
GROUND DISTANCE Z2: Quad Left Blinder RCA	85 deg
GROUND DISTANCE Z2: Supervision	0.100 pu
GROUND DISTANCE Z2: Volt Level	0.000 pu
GROUND DISTANCE Z2: Delay	0.500 s
GROUND DISTANCE Z2: Block	OFF
GROUND DISTANCE Z2: Target	Latched
GROUND DISTANCE Z2: Events	Enabled
GROUND DISTANCE Z3: Function	Enabled
GROUND DISTANCE Z3: Direction	Forward
GROUND DISTANCE Z3: Shape	Mho
GROUND DISTANCE Z3: Z0/Z1 Mag	3.32
GROUND DISTANCE Z3: Z0/Z1 Ang	11 deg
GROUND DISTANCE Z3: Z0M/Z1 Mag	0.00
GROUND DISTANCE Z3: Z0M/Z1 Ang	0 deg
GROUND DISTANCE Z3: Reach	3.86 ohms
GROUND DISTANCE Z3: RCA	60 deg
GROUND DISTANCE Z3: Rev Reach	0.02 ohms
GROUND DISTANCE Z3: Rev Reach RCA	60 deg
GROUND DISTANCE Z3: POL Current	Neg-seq
GROUND DISTANCE Z3: Non-Homogen Ang	0.0 deg
GROUND DISTANCE Z3: Comp Limit	90 deg
GROUND DISTANCE Z3: DIR RCA	85 deg
GROUND DISTANCE Z3: DIR Comp Limit	90 deg
GROUND DISTANCE Z3: Quad Right Blinder	10.00 ohms
GROUND DISTANCE Z3: Quad Right Blinder RCA	85 deg
GROUND DISTANCE Z3: Quad Left Blinder	10.00 ohms
GROUND DISTANCE Z3: Quad Left Blinder RCA	85 deg
GROUND DISTANCE Z3: Supervision	0.100 pu
GROUND DISTANCE Z3: Volt Level	0.000 pu
GROUND DISTANCE Z3: Delay	1.500 s
GROUND DISTANCE Z3: Block	OFF
GROUND DISTANCE Z3: Target	Latched
GROUND DISTANCE Z3: Events	Enabled

NEUTRAL CURRENT

NEUTRAL TOC [GROUP 1]

NEUTRAL TOC1: Function	Enabled
NEUTRAL TOC1: Source	APORTE (SRC 1)
NEUTRAL TOC1: Input	Phasor
NEUTRAL TOC1: Pickup	0.300 pu
NEUTRAL TOC1: Curve	IEC Curve B
NEUTRAL TOC1: TD Multiplier	0.40
NEUTRAL TOC1: Reset	Instantaneous
NEUTRAL TOC1: Block	NTRL DIR OC1 REV
NEUTRAL TOC1: Target	Latched
NEUTRAL TOC1: Events	Enabled

NEUTRAL IOC [GROUP 1]

NEUTRAL IOC1: Function	Enabled
NEUTRAL IOC1: Source	APORTE (SRC 1)
NEUTRAL IOC1: Pickup	3.300 pu
NEUTRAL IOC1: Delay	0.00 s
NEUTRAL IOC1: Reset Delay	0.00 s
NEUTRAL IOC1: Block	NTRL DIR OC1 REV

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 ASSOCIATED DEVICE: (NONE)

NEUTRAL IOC [GROUP 1] (continued from last page)

NEUTRAL IOC1: Target Latched  
 NEUTRAL IOC1: Events Enabled

NEUTRAL DIRECTIONAL OC [GROUP 1]

NEUTRAL DIR OC1: Function Enabled  
 NEUTRAL DIR OC1: Source APORTE (SRC 1)  
 NEUTRAL DIR OC1: Polarizing Voltage  
 NEUTRAL DIR OC1: Polarizing Volt Calculated V0  
 NEUTRAL DIR OC1: Op Current Calculated 3I0  
 NEUTRAL DIR OC1: POS SEQ Restraint 0.063  
 NEUTRAL DIR OC1: Offset 0.00 ohms  
 NEUTRAL DIR OC1: Forward ECA 75 ° Lag  
 NEUTRAL DIR OC1: Forward Limit Angle 85 deg  
 NEUTRAL DIR OC1: Forward Pickup 0.080 pu  
 NEUTRAL DIR OC1: Reverse Limit Angle 85 deg  
 NEUTRAL DIR OC1: Reverse Pickup 0.080 pu  
 NEUTRAL DIR OC1: Block SRC1 VT FUSE FAIL OP  
 NEUTRAL DIR OC1: Target Self-reset  
 NEUTRAL DIR OC1: Events Enabled

CONTROL ELEMENTS

TRIP BUS

Trip Bus 1 Function Enabled  
 Trip Bus 1 Block SRC1 VT FUSE FAIL OP  
 Trip Bus 1 Pickup Delay 0.00 s  
 Trip Bus 1 Reset Delay 0.00 s  
 Trip Bus 1 Input 1 LINE PICKUP OP  
 Trip Bus 1 Input 2 PH DIST Z1 OP  
 Trip Bus 1 Input 3 PH DIST Z2 OP  
 Trip Bus 1 Input 4 PH DIST Z3 OP  
 Trip Bus 1 Input 5 GND DIST Z1 OP  
 Trip Bus 1 Input 6 GND DIST Z2 OP  
 Trip Bus 1 Input 7 GND DIST Z3 OP  
 Trip Bus 1 Input 8 NEUTRAL TOC1 OP  
 Trip Bus 1 Input 9 NEUTRAL IOC1 OP  
 Trip Bus 1 Input 10 OFF  
 Trip Bus 1 Input 11 OFF  
 Trip Bus 1 Input 12 OFF  
 Trip Bus 1 Input 13 OFF  
 Trip Bus 1 Input 14 OFF  
 Trip Bus 1 Input 15 OFF  
 Trip Bus 1 Input 16 OFF  
 Trip Bus 1 Latching Enabled  
 Trip Bus 1 Reset BREAKER 1 OPEN  
 Trip Bus 1 Target Latched  
 Trip Bus 1 Events Enabled

SETTING GROUPS

Function Enabled  
 Block OFF  
 Group 2 Activate On OFF  
 Group 3 Activate On OFF  
 Group 4 Activate On OFF  
 Group 5 Activate On OFF  
 Group 6 Activate On OFF  
 Group 1 Name CONFIGURACION 1  
 Group 2 Name  
 Group 3 Name  
 Group 4 Name  
 Group 5 Name  
 Group 6 Name  
 Events Disabled

TRIP OUTPUT

Trip Mode 3 Pole Only

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TRIP OUTPUT (continued from last page)

Trip 3-Pole Input1	REP Z2 Z3 On (VO1)
Trip 3-Pole Input2	63A1-Y/52B2 On(H1c)
Trip 3-Pole Input3	52B1 On(H5a)
Trip 3-Pole Input4	NEUTRAL TOC1 OP
Trip 3-Pole Input5	52B2 On(H1a)
Trip 3-Pole Input6	OFF
Trip 1-Pole Input1	OFF
Trip 1-Pole Input2	OFF
Trip 1-Pole Input3	OFF
Trip 1-Pole Input4	OFF
Trip 1-Pole Input5	OFF
Trip 1-Pole Input6	OFF
Trip Reclose Input1	OFF
Trip Reclose Input2	OFF
Trip Reclose Input3	OFF
Trip Reclose Input4	OFF
Trip Reclose Input5	OFF
Trip Reclose Input6	OFF
BKR Phase A Open	TRIP On (VO1)
BKR Phase B Open	TRIP On (VO1)
BKR Phase C Open	TRIP On (VO1)
Trip Force 3-Pole	OFF
Trip Pilot Priority	0.000 s
Reverse Fault	OFF
Trip Delay On Evolving Faults	0.000 s
Trip Events	Enabled

SYNCHROCHECK

SYNCHROCHECK1: Function	Enabled
SYNCHROCHECK1: Block	BLOQUEO 25 On (VO12)
SYNCHROCHECK1: V1 Source	APORTE (SRC 1)
SYNCHROCHECK1: V2 Source	AUX (SRC 2)
SYNCHROCHECK1: Max Volt Diff	3810 V
SYNCHROCHECK1: Max Angle Diff	20 deg
SYNCHROCHECK1: Max Freq Diff	0.60 Hz
SYNCHROCHECK1: Max Freq Hysteresis	0.06 Hz
SYNCHROCHECK1: Dead Source Select	DV1 or DV2
SYNCHROCHECK1: Dead V1 Max Volt	0.30 pu
SYNCHROCHECK1: Dead V2 Max Volt	0.30 pu
SYNCHROCHECK1: Live V1 Min Volt	0.70 pu
SYNCHROCHECK1: Live V2 Min Volt	0.70 pu
SYNCHROCHECK1: Target	Self-reset
SYNCHROCHECK1: Events	Enabled

MONITORING ELEMENTS

VT FUSE FAILURE

VT FUSE FAILURE 1: Function	Enabled
-----------------------------	---------

AUTORECLOSE 1P

Function	Enabled
Mode	3 Pole - B
Max Number Of Shots	1
Block BKR1	63A1-Y/52B2 On(H1c)
Close Time BKR1	1.85 s
BKR Man Close	OFF
Blk Time Upon Man Cls	0.00 s
1-P Init	OFF
3-P Init	HABILITA 79 On (VO2)
3-P TD Init	OFF
Multi P Fault	OFF
BKR 1 Pole Open	OFF
BKR 3 Pole Open	BREAKER 1 OPEN
3-P Dead Time 1	2.00 s
3-P Dead Time 2	0.00 s
3-P Dead Time 3	0.00 s

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AUTORECLOSE 1P (continued from last page)

3-P Dead Time 4	0.00 s
Extend Dead T1	OFF
Dead T1 Extension	0.50 s
Reset	79 RESET On (VO9)
Reset Time	15.00 s
BKR Closed	BREAKER 1 CLOSED
Block	79/c On (VO3)
Pause	OFF
Inc Seq Time	5.00 s
Block BKR2	OFF
Close Time BKR2	0.10 s
Transfer 1 to 2	No
Transfer 2 to 1	No
BKR1 Fail Option	Continue
BKR2 Fail Option	Continue
1-P Dead Time	1.00 s
BKR Sequence	1 - 2
Transfer Time	4.00 s
BUS FLT Init	OFF
Event	Enabled

INPUTS/OUTPUTS

CONTACT INPUTS

[H1a] Contact Input 1a ID	52B2
[H1a] Contact Input 1a Debounce Time	2.0 ms
[H1a] Contact Input 1a Events	Enabled
[H1c] Contact Input 1c ID	63A1-Y/52B2
[H1c] Contact Input 1c Debounce Time	2.0 ms
[H1c] Contact Input 1c Events	Enabled
[H2a] Contact Input 2a ID	79/C
[H2a] Contact Input 2a Debounce Time	2.0 ms
[H2a] Contact Input 2a Events	Enabled
[H2c] Contact Input 2c ID	79/B
[H2c] Contact Input 2c Debounce Time	2.0 ms
[H2c] Contact Input 2c Events	Enabled
[H3a] Contact Input 3a ID	BLOQUEO 79
[H3a] Contact Input 3a Debounce Time	2.0 ms
[H3a] Contact Input 3a Events	Enabled
[H3c] Contact Input 3c ID	79/D
[H3c] Contact Input 3c Debounce Time	2.0 ms
[H3c] Contact Input 3c Events	Enabled
[H4a] Contact Input 4a ID	52B1
[H4a] Contact Input 4a Debounce Time	2.0 ms
[H4a] Contact Input 4a Events	Disabled
[H4c] Contact Input 4c ID	62 L2 MOL
[H4c] Contact Input 4c Debounce Time	2.0 ms
[H4c] Contact Input 4c Events	Disabled
[H5a] Contact Input 5a ID	52B1
[H5a] Contact Input 5a Debounce Time	2.0 ms
[H5a] Contact Input 5a Events	Enabled
[H5c] Contact Input 5c ID	62 L2 MOLLES
[H5c] Contact Input 5c Debounce Time	2.0 ms
[H5c] Contact Input 5c Events	Enabled
[H6a] Contact Input 6a ID	TELECONTROL
[H6a] Contact Input 6a Debounce Time	2.0 ms
[H6a] Contact Input 6a Events	Enabled
[H6c] Contact Input 6c ID	Cont Ip 12
[H6c] Contact Input 6c Debounce Time	2.0 ms
[H6c] Contact Input 6c Events	Disabled
[H7a] Contact Input 7a ID	Cont Ip 13
[H7a] Contact Input 7a Debounce Time	2.0 ms
[H7a] Contact Input 7a Events	Disabled
[H7c] Contact Input 7c ID	Cont Ip 14
[H7c] Contact Input 7c Debounce Time	2.0 ms
[H7c] Contact Input 7c Events	Disabled

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CONTACT INPUTS (continued from last page)

[H8a] Contact Input 8a ID	Cont Ip 15
[H8a] Contact Input 8a Debounce Time	2.0 ms
[H8a] Contact Input 8a Events	Disabled
[H8c] Contact Input 8c ID	Cont Ip 16
[H8c] Contact Input 8c Debounce Time	2.0 ms
[H8c] Contact Input 8c Events	Disabled
[M7a] Contact Input 7a ID	Cont Ip 17
[M7a] Contact Input 7a Debounce Time	2.0 ms
[M7a] Contact Input 7a Events	Disabled
[M7c] Contact Input 7c ID	Cont Ip 18
[M7c] Contact Input 7c Debounce Time	2.0 ms
[M7c] Contact Input 7c Events	Disabled
[M8a] Contact Input 8a ID	Cont Ip 19
[M8a] Contact Input 8a Debounce Time	2.0 ms
[M8a] Contact Input 8a Events	Disabled
[M8c] Contact Input 8c ID	Cont Ip 20
[M8c] Contact Input 8c Debounce Time	2.0 ms
[M8c] Contact Input 8c Events	Disabled
[P7a] Contact Input 7a ID	Cont Ip 21
[P7a] Contact Input 7a Debounce Time	2.0 ms
[P7a] Contact Input 7a Events	Disabled
[P7c] Contact Input 7c ID	Cont Ip 22
[P7c] Contact Input 7c Debounce Time	2.0 ms
[P7c] Contact Input 7c Events	Disabled
[P8a] Contact Input 8a ID	Cont Ip 23
[P8a] Contact Input 8a Debounce Time	2.0 ms
[P8a] Contact Input 8a Events	Disabled
[P8c] Contact Input 8c ID	Cont Ip 24
[P8c] Contact Input 8c Debounce Time	2.0 ms
[P8c] Contact Input 8c Events	Disabled

CONTACT INPUT THRESHOLDS

52B2, 63A1-Y/52B2, 79/C, 79/B(H1a, H1c, H2a, H2c)	33 Vdc
BLOQUEO 79, 79/D, 52B1, 62 L2 MOL(H3a, H3c, H4a, H4c)	33 Vdc
52B1, 62 L2 MOLLES, TELECONTROL, Cont Ip 12(H5a, H5c, H6a, H6c)	33 Vdc
Cont Ip 13, Cont Ip 14, Cont Ip 15, Cont Ip 16(H7a, H7c, H8a, H8c)	33 Vdc
Cont Ip 17, Cont Ip 18, Cont Ip 19, Cont Ip 20(M7a, M7c, M8a, M8c)	33 Vdc
Cont Ip 21, Cont Ip 22, Cont Ip 23, Cont Ip 24(P7a, P7c, P8a, P8c)	33 Vdc

CONTACT OUTPUTS

[M1] Contact Output 1 ID	VIA 79
[M1] Contact Output 1 Operate	VIA 79/c On (VO4)
[M1] Contact Output 1 Seal-In	OFF
[M1] Contact Output 1 Events	Enabled
[M2] Contact Output 2 ID	PARTIDA 79
[M2] Contact Output 2 Operate	79 ON On (VO8)
[M2] Contact Output 2 Seal-In	OFF
[M2] Contact Output 2 Events	Enabled
[M3] Contact Output 3 ID	TRIP
[M3] Contact Output 3 Operate	TRIPBUS 1 OP
[M3] Contact Output 3 Seal-In	OFF
[M3] Contact Output 3 Events	Enabled
[M4] Contact Output 4 ID	ALARMA 21/67
[M4] Contact Output 4 Operate	TRIP On (VO1)
[M4] Contact Output 4 Seal-In	OFF
[M4] Contact Output 4 Events	Enabled
[M5] Contact Output 5 ID	PARTIDA 86
[M5] Contact Output 5 Operate	PARTIDA 86 On (VO10)
[M5] Contact Output 5 Seal-In	OFF

SE OVA BACKUP PROPUESTO PS2 PACO B02\_15062020.URS  
C:\USERS\MFIGUEROA\DOCUMENTS\DOCUMENTOS PC ANTERIOR\OMICRON 2.0\VERIFICACIONES\SE OVAL  
LE\VERIF. PS2 PACO B02 SE OVA\_15.06.2020\SE OVA BACKUP PROPUESTO PS2 PACO B02\_15062020\

DEVICE DEFINITION

DEVICES

ORDER CODE: D60-N00-HKL-F8L-H6D-M6U-P6U-U67-W67  
VERSION: 5.50  
UR SERIAL NUMBER: AABC08000478  
SETTINGS SENT TO RELAY: TUESDAY, JUNE 16, 2020 00:09:23  
DESCRIPTION: PACO B2  
TEXT COLOR  
ASSOCIATED DEVICE: (NONE)

CONTACT OUTPUTS (continued from last page)

[M5] Contact Output 5 Events	Enabled
[M6] Contact Output 6 ID	ALARMA 86
[M6] Contact Output 6 Operate	PARTIDA 86 On (VO10)
[M6] Contact Output 6 Seal-In	OFF
[M6] Contact Output 6 Events	Enabled
[P1] Contact Output 7 ID	25VS
[P1] Contact Output 7 Operate	BLQ MC On (VO13)
[P1] Contact Output 7 Seal-In	OFF
[P1] Contact Output 7 Events	Enabled
[P2] Contact Output 8 ID	REPLICA Z2&3
[P2] Contact Output 8 Operate	REP Z2 Z3 On (VO11)
[P2] Contact Output 8 Seal-In	OFF
[P2] Contact Output 8 Events	Enabled
[P3] Contact Output 9 ID	79 ON Test
[P3] Contact Output 9 Operate	79 ON On (VO8)
[P3] Contact Output 9 Seal-In	OFF
[P3] Contact Output 9 Events	Disabled
[P4] Contact Output 10 ID	52Pos Test
[P4] Contact Output 10 Operate	BREAKER 1 CLOSED
[P4] Contact Output 10 Seal-In	OFF
[P4] Contact Output 10 Events	Disabled

VIRTUAL OUTPUTS

Virtual Output 1 ID	TRIP
Virtual Output 1 Events	Enabled
Virtual Output 2 ID	HABILITA 79
Virtual Output 2 Events	Enabled
Virtual Output 3 ID	79/c
Virtual Output 3 Events	Enabled
Virtual Output 4 ID	VIA 79/c
Virtual Output 4 Events	Enabled
Virtual Output 5 ID	79/d
Virtual Output 5 Events	Enabled
Virtual Output 8 ID	79 ON
Virtual Output 8 Events	Enabled
Virtual Output 9 ID	79 RESET
Virtual Output 9 Events	Enabled
Virtual Output 10 ID	PARTIDA 86
Virtual Output 10 Events	Enabled
Virtual Output 11 ID	REP Z2 Z3
Virtual Output 11 Events	Enabled
Virtual Output 12 ID	BLOQUEO 25
Virtual Output 12 Events	Enabled
Virtual Output 13 ID	BLQ MC
Virtual Output 13 Events	Enabled
Virtual Output 14 ID	Z1
Virtual Output 14 Events	Enabled
Virtual Output 15 ID	Z2
Virtual Output 15 Events	Enabled
Virtual Output 16 ID	Z3
Virtual Output 16 Events	Enabled
Virtual Output 17 ID	21-21 phase
Virtual Output 17 Events	Enabled
Virtual Output 18 ID	21-21N
Virtual Output 18 Events	Enabled
Virtual Output 64 ID	Osc Trigger
Virtual Output 64 Events	Enabled

## CONTROL DE REVISIÓN DEL CRAP

REVISOR	FECHA	N° EAP	OBSERVACIONES
Sin Antecedente	28/04/2010	15/2010	Instalación de una nueva protección D60.
Sin Antecedente	06/03/2013	13/2013	Modificación del umbral de line pick up de 1 p.u a 2 p.u.
Alonso González	06/03/2013	---	Se actualiza formato CRAP y Ajustes equipos GE D60
Alonso González	15/06/2020	15/2020	Modificación método de direccionalidad en equipo GE D60.

\* En las observaciones se debe indicar las protecciones que se modifican respecto a la revisión anterior

## Razón de TTCC/TTPP

$TTCC: 150/5$

$$TTPP: \frac{69000}{\sqrt{3}} / 115 / \frac{115}{\sqrt{3}}$$

## Particularidades de Ajustes

- Sin esquema de teleprotección

## Ajustes relevantes

FUNCIÓN	PARÁMETROS/TIPO	VALOR/CANTIDAD
Line Pickup (SOTF)	Phase IOC UV Pickup	2.000 [pu] 300 amp. Prim 0.800 [pu] 31907.5 V. prim
67N	$I_{pickup}$	0.300 [pu] 45 amp. primarios
79	Modo Secuencia	3 Pole-B 1



## S/E Ovalle

### Línea 66 kV Los Molles – Ovalle, Circuito 1 y 2

#### 1.-Protección de distancia

$$TT / CC = \frac{150}{5} \quad TT / PP = \frac{69000}{\sqrt{3}} / 115 / \frac{115}{\sqrt{3}}$$

##### 1.1.-Relés para fallas entre fases GCX 17 A

Ajuste del tap input : 100 %

Ajustes : tap número 1 : 42 % ( 1,19 ohms sec. a 90°)  
tap número 2 : 25 % ( 2,0 ohms sec. a 90°)  
tap E2 : 73 % ( 3,42 ohms sec. a 60°)

Tiempos de operación: segunda zona : 0,5 seg.  
tercera zona : 0,9 seg.

#### 2.-Protección direccional de sobrecorriente residual de tiempo muy inverso

$$TT / CC = \frac{150}{5} \quad TT / PP = \frac{69000}{\sqrt{3}} / 115 / \frac{115}{\sqrt{3}}$$

Relé MCGG21 + METI12

##### 2.1.-Características de tiempo: Muy inverso ( V.I. ) – IEC B

-Posición de clavijas : 1-0-0

##### 2.2.-Ajustes de corrientes de operación

-Elemento de tiempo (Is):

-Valor de ajuste : 0,2 x In  
-Clavijas activas : 0,2  
-Corriente de operación : 1,0 Amp.

-Elemento instantáneo (Iinst):

-Valor de ajuste : 14 x Is  
-Clavijas activas : 2 + 4 + 8  
-Corriente de operación : 14 Amp.

### 2.3.-Ajustes de tiempo (xt)

- Valor de ajuste : 0,5
- Clavijas activas : 0,05+0,05+0,4
- Tiempos de operación : 3 x pick-up: 3,38 s  
5 x pick-up: 1,69 s  
8 x pick-up: 0,96 s.

### 2.4.-Unidad direccional (relé METI12)

- Angulo característico (RCA):  $-60^{\circ}$

## 3.-Protección de respaldo

### 3.1.-Relé de tiempo PA 1

Tiempo de operación : 0,5 seg.

Nota 1.-Este relé es energizado por las protecciones de los puntos 1 y 2 y da orden de desenganche a todos los interruptores de la barra de 66 KV.

## 4.-Esquema de reconexión

### 4.1.-Relé P4wa

Contactador de tiempo de reconexión PR5 (contactor "a")

Ajuste : 2,0 seg.

Contactador de tiempo de bloqueo PR5 (contactor "b")

Ajuste : 5,0 seg.

Contactador de tiempo de supervisión presión de aire PR1  
(contactor "d")

Ajuste : 1,0 seg.

Nota 2.-La reconexión automática es habilitada por la operación de la protección de distancia para fallas entre fases, en primera zona, y por la operación del elemento instantáneo de la protección residual. La orden de reconexión es supervisada por la posición del interruptor del circuito paralelo.

SE OVALLE  
 D60 OVA B1  
 DEVICE DEFINITION  
 ORDER CODE: D60-N00-HKL-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 DESCRIPTION: (NONE)  
 INTERFACE: IP:10.90.38.135 | ADDR:254 | PORT: 502

PRODUCT SETUP

SECURITY

Command Password	0
Setting Password	2059581733
Command Password Access Timeout	5 min
Setting Password Access Timeout	30 min
Invalid Password Attempts	3
Password Lockout Duration	5 min
Password Access Events	Disabled

DISPLAY PROPERTIES

Flash Message Time	1.0 s
Default Message Timeout	300 s
Default Message Intensity (VFD Only)	25 %
Screen Saver Feature (LCD Only)	Enabled
Screen Saver Wait Time (LCD Only)	2 min
Current Cutoff Level	0.020 pu
Voltage Cutoff Level	1.0 V

COMMUNICATIONS

SERIAL PORTS

RS485 Com2 Baud Rate	19200
RS485 Com2 Parity	None
RS485 Com2 Response Min Time	0 ms

NETWORK

IP Address	10.90.38.135
IP Subnet Mask	255.255.255.0
Gateway IP Address	0.0.0.0

MODBUS PROTOCOL

Modbus Slave Address	254
Modbus TCP Port Number	502

DNP PROTOCOL

DNP Channel 1 Port	NETWORK - TCP
DNP Channel 2 Port	NONE
DNP Address	31
DNP Client Address 1	10.90.38.130
DNP Client Address 2	0.0.0.0
DNP Client Address 3	0.0.0.0
DNP Client Address 4	0.0.0.0
DNP Client Address 5	0.0.0.0
DNP TCP/UDP Port Number	20000
DNP Unsol Resp Function	Disabled
DNP Unsol Resp Timeout	5 s
DNP Unsol Resp Max Retries	10
DNP Unsol Resp Dest Addr	100
DNP Current Scale Factor	1
DNP Voltage Scale Factor	1
DNP Power Scale Factor	1
DNP Energy Scale Factor	1

SE OVALLE  
 D60 OVA B1  
 DEVICE DEFINITION  
 ORDER CODE: D60-N00-HKL-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 DESCRIPTION: (NONE)  
 INTERFACE: IP:10.90.38.135 | ADDR:254 | PORT: 502

DNP PROTOCOL (continued from last page)

DNP Power Factor Scale Factor	1
DNP Other Scale Factor	1
DNP Current Default Deadband	30000
DNP Voltage Default Deadband	30000
DNP Power Default Deadband	30000
DNP Energy Default Deadband	30000
DNP Power Factor Default Deadband	30000
DNP Other Default Deadband	30000
DNP Time Sync IIN Period	1440 min
DNP Message Fragment Size	240
DNP Number of Paired Controls	0
DNP TCP Connection Timeout	120 s
DNP Object 1 Default Variation	2
DNP Object 2 Default Variation	2
DNP Object 30 Default Variation	1
DNP Object 20 Default Variation	1
DNP Object 21 Default Variation	1
DNP Object 22 Default Variation	1
DNP Object 23 Default Variation	1
DNP Object 32 Default Variation	1

DNP - IEC104 POINTS LISTS

DNP Binary Input Point 0	ANY MAJOR ERROR
DNP Binary Input Point 1	LED TEST MODE
DNP Binary Input Point 2	IRIG-b FAILURE
DNP Binary Input Point 3	SRC1 VT FUSE FAIL OP
DNP Binary Input Point 4	PRI ETHERNET FAIL
DNP Binary Input Point 5	ON
DNP Binary Input Point 6	BKR FAIL 1 T1 OP
DNP Binary Input Point 7	21-21 Phase On (VO17)
DNP Binary Input Point 8	21-21N On (VO18)
DNP Binary Input Point 9	LINE PICKUP OP
DNP Binary Input Point 10	Z1 On (VO14)
DNP Binary Input Point 11	Z2 On (VO15)
DNP Binary Input Point 12	Z2 On (VO15)
DNP Binary Input Point 13	ON
DNP Binary Input Point 14	ON
DNP Binary Input Point 15	ON
DNP Binary Input Point 16	Trip Prueba On (VO19)
DNP Binary Input Point 17	LED PHASE A
DNP Binary Input Point 18	LED PHASE B
DNP Binary Input Point 19	LED PHASE C
DNP Binary Input Point 20	ON
DNP Binary Input Point 21	ON
DNP Binary Input Point 22	ON
DNP Binary Input Point 23	PHASE TOC1 OP
DNP Binary Input Point 24	NEUTRAL TOC1 OP
DNP Binary Input Point 25	PH DIR1 BLK
DNP Binary Input Point 26	NTRL DIR OC1 FWD
DNP Binary Input Point 27	ON
DNP Binary Input Point 28	POWER SWING BLOCK

SE OVALLE  
 D60 OVA B1  
 DEVICE DEFINITION  
 ORDER CODE: D60-N00-HKL-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 DESCRIPTION: (NONE)  
 INTERFACE: IP:10.90.38.135 | ADDR:254 | PORT: 502

DNP - IEC104 POINTS LISTS (continued from last page)

DNP Binary Input Point 29	AR CLOSE BKR 1
DNP Analog Input Point 0	Fault Location [1]

HTTP

HTTP TCP Port Number	80
----------------------	----

TFTP

TFTP Main UDP Port Number	69
TFTP Data UDP Port Number 1	0
TFTP Data UDP Port Number 2	0

REAL TIME CLOCK

IRIG-B Signal Type	DC Shift
Real Time Clock Events	Enabled
Time Zone Offset	0.0 hr
DST Function	Enabled
DST Start Month	March
DST Start Day	Sunday
DST Start Day Instance	Second
DST Start Hour	2
DST Stop Month	October
DST Stop Day	Sunday
DST Stop Day Instance	Second
DST Stop Hour	2

FAULT REPORT

Fault Report 1 Source	APORTE (SRC 1)
Fault Report 1 Trigger	TRIP On (VO1)
Fault Report 1 Positive Seq (Z1) Mag	1.55 ohms
Fault Report 1 Positive Seq (Z1) Angle	59 deg
Fault Report 1 Zero Seq (Z0) Mag	5.16 ohms
Fault Report 1 Zero Seq (Z0) Angle	76 deg
Fault Report 1 Line Length Units	km
Fault Report 1 Line Length	66.8
Fault Report 1 VT Substitution	None
Fault Report 1 System Z0 Mag	1.99 ohms
Fault Report 1 System Z0 Angle	75 deg

OSCILLOGRAPHY

Number Of Records	15
Trigger Mode	Automatic Overwrite
Trigger Position	30 %
Trigger Source	Osc Trigger On (VO64)
AC Input Waveforms	32 samples/cycle
Digital Channel 1	PH DIR1 BLK
Digital Channel 2	PH DIST Z1 OP
Digital Channel 3	GND DIST Z1 OP
Digital Channel 4	PH DIST Z2 OP
Digital Channel 5	GND DIST Z2 OP
Digital Channel 6	PH DIST Z3 OP
Digital Channel 7	GND DIST Z3 OP

SE OVALLE  
 D60 OVA B1  
 DEVICE DEFINITION  
 ORDER CODE: D60-N00-HKL-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 DESCRIPTION: (NONE)  
 INTERFACE: IP:10.90.38.135 | ADDR:254 | PORT: 502

OSCILLOGRAPHY (continued from last page)

Digital Channel 8	LINE PICKUP OP
Digital Channel 9	AR ENABLED
Digital Channel 10	AR DISABLED
Digital Channel 11	AR RIP
Digital Channel 12	AR LO
Digital Channel 13	AR RESET
Digital Channel 14	TRIP On (VO1)
Digital Channel 15	SRC1 VT FUSE FAIL OP
Digital Channel 16	SRC1 50DD OP
Digital Channel 17	63A1-Y/52B1 On(H1c)
Digital Channel 18	52B1 Off(H1a)
Digital Channel 19	AR CLOSE BKR 1
Digital Channel 20	AR BKR 1 BLK
Digital Channel 21	SYNC 1 CLS OP
Digital Channel 22	PH DIST Z1 PKP
Digital Channel 23	PH DIST Z2 PKP
Digital Channel 24	PH DIST Z3 PKP
Digital Channel 25	GND DIST Z1 PKP
Digital Channel 26	GND DIST Z2 PKP
Digital Channel 27	GND DIST Z3 PKP
Digital Channel 28	LINE PICKUP PKP
Digital Channel 29	NEUTRAL TOC1 OP
Digital Channel 30	NEUTRAL TOC1 PKP
Digital Channel 31	NEUTRAL IOC1 OP
Digital Channel 32	NEUTRAL IOC1 PKP
Digital Channel 33	NTRL DIR OC1 FWD
Digital Channel 34	NTRL DIR OC1 REV
Digital Channel 35	79 ON On (VO8)
Analog Channel 1	SRC1 Ia Mag
Analog Channel 2	SRC1 Ib Mag
Analog Channel 3	SRC1 Ic Mag
Analog Channel 4	SRC1 Ig Mag
Analog Channel 5	SRC1 Vag Mag
Analog Channel 6	SRC1 Vbg Mag
Analog Channel 7	SRC1 Vcg Mag
Analog Channel 8	SRC1 Frequency
Analog Channel 9	SRC1 P
Analog Channel 10	SRC1 Q
Analog Channel 11	SRC1 S
Analog Channel 12	SRC1 I_1 Mag
Analog Channel 13	SRC1 I_1 Angle
Analog Channel 14	SRC1 I_2 Mag
Analog Channel 15	SRC1 I_2 Angle
Analog Channel 16	SRC1 I_0 Mag

DATA LOGGER

Data Logger Mode	Continuous
Data Logger Trigger	Osc Trigger On (VO64)
Rate	60000 msec
Channel 1	SRC1 Ia RMS
Channel 2	SRC1 Ib RMS

SE OVALLE  
 D60 OVA B1  
 DEVICE DEFINITION  
 ORDER CODE: D60-N00-HKL-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 DESCRIPTION: (NONE)  
 INTERFACE: IP:10.90.38.135 | ADDR:254 | PORT: 502

DATA LOGGER (continued from last page)

Channel 3	SRC1	Ic RMS
Channel 4	SRC1	Vab RMS
Channel 5	SRC1	Vbc RMS
Channel 6	SRC1	Vca RMS
Channel 7	SRC1	I_0 Mag
Channel 8	SRC1	I_1 Mag
Channel 9	SRC1	I_2 Mag
Channel 10	SRC1	V_0 Mag
Channel 11	SRC1	V_1 Mag
Channel 12	SRC1	V_2 Mag
Configuration	0 CHNL x 0.0 DAYS	

USER-PROGRAMMABLE LEDES

LED TEST

Function	Enabled
Control	OFF

TRIP AND ALARMS LEDES

Trip LED Input	TRIP On (VO1)
----------------	---------------

USER PROGRAMMABLE LEDES

LED 1: OPERAND	BREAKER 1 OPEN
LED 1: TYPE	Self-Reset
LED 2: OPERAND	BREAKER 1 CLOSED
LED 2: TYPE	Self-Reset
LED 13: OPERAND	SYNC 1 SYNC OP
LED 13: TYPE	Self-Reset
LED 17: OPERAND	AR ENABLED
LED 17: TYPE	Self-Reset
LED 18: OPERAND	AR DISABLED
LED 18: TYPE	Self-Reset
LED 19: OPERAND	AR RIP
LED 19: TYPE	Self-Reset
LED 20: OPERAND	AR LO
LED 20: TYPE	Self-Reset
LED 25: OPERAND	GND DIST Z1 OP
LED 25: TYPE	Latched
LED 26: OPERAND	GND DIST Z2 OP
LED 26: TYPE	Latched
LED 27: OPERAND	GND DIST Z3 OP
LED 27: TYPE	Latched
LED 28: OPERAND	PH DIST Z1 OP
LED 28: TYPE	Latched
LED 29: OPERAND	PH DIST Z2 OP
LED 29: TYPE	Latched
LED 30: OPERAND	PH DIST Z3 OP
LED 30: TYPE	Latched
LED 32: OPERAND	63A1-Y/52B1 On(H1c)
LED 32: TYPE	Latched
LED 33: OPERAND	Osc Trigger On (VO64)
LED 33: TYPE	Latched

SE OVALLE  
 D60 OVA B1  
 DEVICE DEFINITION  
 ORDER CODE: D60-N00-HKL-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 DESCRIPTION: (NONE)  
 INTERFACE: IP:10.90.38.135 | ADDR:254 | PORT: 502

USER PROGRAMMABLE LEADS (continued from last page)

LED 34: OPERAND	PARTIDA 86 On (VO10)
LED 34: TYPE	Latched
LED 35: OPERAND	52B2 On(H5a)
LED 35: TYPE	Self-Reset
LED 36: OPERAND	NEUTRAL TOC1 OP
LED 36: TYPE	Latched

USER PROGRAMMABLE SELF TESTS

Pri Ethernet Fail Function	Enabled
Battery Fail Function	Enabled
IRIG B Fail Function	Enabled

FLEX STATES

Parameter 1	HABILITA 79 On (VO2)
Parameter 2	AR CLOSE BKR 1
Parameter 3	SYNC 1 CLS OP
Parameter 4	AR BKR 1 BLK
Parameter 5	BREAKER 1 OPEN
Parameter 6	BREAKER 1 OOS
Parameter 7	63A1-Y/52B1 On(H1c)

USER-DEFINABLE DISPLAYS

USER DISPLAY 1: Top Line	LINEA MOL-OVA
USER DISPLAY 1: Bottom Line	LINEA 1
USER DISPLAY 1: Item 1	0
USER DISPLAY 1: Item 2	0
USER DISPLAY 1: Item 3	0
USER DISPLAY 1: Item 4	0
USER DISPLAY 1: Item 5	0
USER DISPLAY 2: Top Line	Ia ~[A] Ib ~[A]
USER DISPLAY 2: Bottom Line	Ic ~[A]
USER DISPLAY 2: Item 1	6144
USER DISPLAY 2: Item 2	6146
USER DISPLAY 2: Item 3	6148
USER DISPLAY 2: Item 4	0
USER DISPLAY 2: Item 5	0
USER DISPLAY 3: Top Line	Uab~[V] Ubc~[V]
USER DISPLAY 3: Bottom Line	Uca~[V]
USER DISPLAY 3: Item 1	6671
USER DISPLAY 3: Item 2	6673
USER DISPLAY 3: Item 3	6675
USER DISPLAY 3: Item 4	0
USER DISPLAY 3: Item 5	0
USER DISPLAY 4: Top Line	LOC. FALLAS
USER DISPLAY 4: Bottom Line	~
USER DISPLAY 4: Item 1	9061
USER DISPLAY 4: Item 2	0
USER DISPLAY 4: Item 3	0
USER DISPLAY 4: Item 4	0
USER DISPLAY 4: Item 5	0
USER DISPLAY 5: Top Line	IRIG-B SIGNAL TYPE:



SE OVALLE  
 D60 OVA B1  
 DEVICE DEFINITION  
 ORDER CODE: D60-N00-HKL-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 DESCRIPTION: (NONE)  
 INTERFACE: IP:10.90.38.135 | ADDR:254 | PORT: 502

USER-DEFINABLE DISPLAYS (continued from last page)

USER DISPLAY 5: Bottom Line	~
USER DISPLAY 5: Item 1	16806
USER DISPLAY 5: Item 2	0
USER DISPLAY 5: Item 3	0
USER DISPLAY 5: Item 4	0
USER DISPLAY 5: Item 5	0
USER DISPLAY 6: Top Line	ENTER SETTING
USER DISPLAY 6: Bottom Line	PASSWORD: _____
USER DISPLAY 6: Item 1	0
USER DISPLAY 6: Item 2	0
USER DISPLAY 6: Item 3	0
USER DISPLAY 6: Item 4	0
USER DISPLAY 6: Item 5	0
Invoke and Scroll	OFF

INSTALLATION

Relay Settings	Programmed
Relay Name	LINEA SUR

SYSTEM SETUP

AC INPUTS

CURRENT

CT F1: Phase CT Primary	150 A
CT F1: Phase CT Secondary	5 A
CT F1: Ground CT Primary	1 A
CT F1: Ground CT Secondary	1 A

VOLTAGE

VT F5: Phase VT Connection	Wye
VT F5: Phase VT Secondary	66.4 V
VT F5: Phase VT Ratio	600.00 :1
VT F5: Auxiliary VT Connection	Vag
VT F5: Auxiliary VT Secondary	66.4 V
VT F5: Auxiliary VT Ratio	346.41 :1

POWER SYSTEM

Nominal Frequency	50 Hz
Phase Rotation	ABC
Frequency And Phase Reference	APORTE (SRC 1)
Frequency Tracking Function	Enabled

SIGNAL SOURCES

SOURCE 1: Name	APORTE
SOURCE 1: Phase CT	F1
SOURCE 1: Ground CT	None
SOURCE 1: Phase VT	F5
SOURCE 1: Auxiliary VT	None
SOURCE 2: Name	AUX
SOURCE 2: Phase CT	None
SOURCE 2: Ground CT	None
SOURCE 2: Phase VT	None

SE OVALLE  
 D60 OVA B1  
 DEVICE DEFINITION  
 ORDER CODE: D60-N00-HKL-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 DESCRIPTION: (NONE)  
 INTERFACE: IP:10.90.38.135 | ADDR:254 | PORT: 502

SIGNAL SOURCES (continued from last page)

SOURCE 2: Auxiliary VT F5

BREAKERS

Breaker 1 Function	Enabled
Breaker 1 Push Button Control	OFF
Breaker 1 Name	52B1
Breaker 1 Mode	3-Pole
Breaker 1 Open	52B1 On(H1a)
Breaker 1 Block Open	63A1-Y/52B1 On(H1c)
Breaker 1 Close	52B1 Off(H1a)
Breaker 1 Block Close	63A1-Y/52B1 On(H1c)
Breaker 1 Phase A/3-Pole Closed	52B1 Off(H1a)
Breaker 1 Phase A/3-Pole Opened	52B1 On(H1a)
Breaker 1 Phase B Closed	OFF
Breaker 1 Phase B Opened	OFF
Breaker 1 Phase C Closed	OFF
Breaker 1 Phase C Opened	OFF
Breaker 1 Toperate	0.070 s
Breaker 1 External Alarm	OFF
Breaker 1 Alarm Delay	0.000 s
Breaker 1 Manual Close Recal Time	0.000 s
Breaker 1 Out Of Service	OFF
Breaker 1 Events	Enabled
Breaker 2 Function	Enabled
Breaker 2 Push Button Control	OFF
Breaker 2 Name	52B2
Breaker 2 Mode	3-Pole
Breaker 2 Open	52B2 On(H4a)
Breaker 2 Block Open	OFF
Breaker 2 Close	52B2 Off(H4a)
Breaker 2 Block Close	OFF
Breaker 2 Phase A/3-Pole Closed	52B2 Off(H4a)
Breaker 2 Phase A/3-Pole Opened	52B2 On(H4a)
Breaker 2 Phase B Closed	OFF
Breaker 2 Phase B Opened	OFF
Breaker 2 Phase C Closed	OFF
Breaker 2 Phase C Opened	OFF
Breaker 2 Toperate	0.070 s
Breaker 2 External Alarm	OFF
Breaker 2 Alarm Delay	0.000 s
Breaker 2 Manual Close Recal Time	0.000 s
Breaker 2 Out Of Service	OFF
Breaker 2 Events	Enabled

FLEXLOGIC

FLEXLOGIC EQUATION EDITOR

FlexLogic Entry 1	GND DIST Z1 OP
FlexLogic Entry 2	POSITIVE ONE SHOT
FlexLogic Entry 3	GND DIST Z2 OP
FlexLogic Entry 4	POSITIVE ONE SHOT
FlexLogic Entry 5	GND DIST Z3 OP

SE OVALLE  
D60 OVA B1  
DEVICE DEFINITION  
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DESCRIPTION: (NONE)  
INTERFACE: IP:10.90.38.135 | ADDR:254 | PORT: 502

FLEXLOGIC EQUATION EDITOR (continued from last page)

FlexLogic Entry 6	POSITIVE ONE SHOT
FlexLogic Entry 7	NEUTRAL IOC1 OP
FlexLogic Entry 8	POSITIVE ONE SHOT
FlexLogic Entry 9	OR(4)
FlexLogic Entry 10	PH DIST Z1 OP
FlexLogic Entry 11	POSITIVE ONE SHOT
FlexLogic Entry 12	PH DIST Z2 OP
FlexLogic Entry 13	POSITIVE ONE SHOT
FlexLogic Entry 14	PH DIST Z3 OP
FlexLogic Entry 15	POSITIVE ONE SHOT
FlexLogic Entry 16	LINE PICKUP OP
FlexLogic Entry 17	POSITIVE ONE SHOT
FlexLogic Entry 18	NEUTRAL TOC1 OP
FlexLogic Entry 19	POSITIVE ONE SHOT
FlexLogic Entry 20	79 ON On (VO8)
FlexLogic Entry 21	POSITIVE ONE SHOT
FlexLogic Entry 22	OR(6)
FlexLogic Entry 23	OR(2)
FlexLogic Entry 24	= Osc Trigger (VO64)
FlexLogic Entry 25	LINE PICKUP OP
FlexLogic Entry 26	GND DIST Z1 OP
FlexLogic Entry 27	GND DIST Z2 OP
FlexLogic Entry 28	GND DIST Z3 OP
FlexLogic Entry 29	PH DIST Z1 OP
FlexLogic Entry 30	PH DIST Z2 OP
FlexLogic Entry 31	PH DIST Z3 OP
FlexLogic Entry 32	NEUTRAL TOC1 OP
FlexLogic Entry 33	NEUTRAL IOC1 OP
FlexLogic Entry 34	OR(9)
FlexLogic Entry 35	POSITIVE ONE SHOT
FlexLogic Entry 36	= TRIP (VO1)
FlexLogic Entry 37	GND DIST Z2 OP
FlexLogic Entry 38	GND DIST Z3 OP
FlexLogic Entry 39	PH DIST Z2 OP
FlexLogic Entry 40	PH DIST Z3 OP
FlexLogic Entry 41	OR(4)
FlexLogic Entry 42	= REP Z2 Z3 (VO11)
FlexLogic Entry 43	PH DIST Z1 OP
FlexLogic Entry 44	GND DIST Z1 OP
FlexLogic Entry 45	NEUTRAL IOC1 OP
FlexLogic Entry 46	79/B On(H2c)
FlexLogic Entry 47	OR(4)
FlexLogic Entry 48	= HABILITA 79 (VO2)
FlexLogic Entry 49	PH DIST Z2 OP
FlexLogic Entry 50	GND DIST Z2 OP
FlexLogic Entry 51	PH DIST Z3 OP
FlexLogic Entry 52	GND DIST Z3 OP
FlexLogic Entry 53	NEUTRAL TOC1 OP
FlexLogic Entry 54	LINE PICKUP OP
FlexLogic Entry 55	79/C On(H2a)
FlexLogic Entry 56	POSITIVE ONE SHOT

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FLEXLOGIC EQUATION EDITOR (continued from last page)

FlexLogic Entry 57	BLOQUEO 79 On(H3a)
FlexLogic Entry 58	79/B On(H2c)
FlexLogic Entry 59	NOT
FlexLogic Entry 60	TIMER 1
FlexLogic Entry 61	AND(2)
FlexLogic Entry 62	OR(8)
FlexLogic Entry 63	= 79/c (VO3)
FlexLogic Entry 64	TELECONTROL On(H6a)
FlexLogic Entry 65	AR CLOSE BKR 1
FlexLogic Entry 66	BREAKER 1 CLOSED
FlexLogic Entry 67	LATCH
FlexLogic Entry 68	NOR(2)
FlexLogic Entry 69	= BLOQUEO 25 (VO12)
FlexLogic Entry 70	79/c On (VO3)
FlexLogic Entry 71	NOT
FlexLogic Entry 72	TIMER 3
FlexLogic Entry 73	= VIA 79/c (VO4)
FlexLogic Entry 74	79/D On(H3c)
FlexLogic Entry 75	BREAKER 1 CLOSED
FlexLogic Entry 76	AND(2)
FlexLogic Entry 77	= 79/d (VO5)
FlexLogic Entry 78	AR CLOSE BKR 1
FlexLogic Entry 79	SYNC 1 CLS OP
FlexLogic Entry 80	AND(2)
FlexLogic Entry 81	= 79 ON (VO8)
FlexLogic Entry 82	AR LO
FlexLogic Entry 83	TIMER 8
FlexLogic Entry 84	= 79 RESET (VO9)
FlexLogic Entry 85	PH DIST Z1 OP
FlexLogic Entry 86	GND DIST Z1 OP
FlexLogic Entry 87	AND(2)
FlexLogic Entry 88	= PARTIDA 86 (VO10)
FlexLogic Entry 89	SYNC 1 CLS OP
FlexLogic Entry 90	TELECONTROL On(H6a)
FlexLogic Entry 91	AND(2)
FlexLogic Entry 92	= BLQ MC (VO13)
FlexLogic Entry 93	GND DIST Z1 OP
FlexLogic Entry 94	PH DIST Z1 OP
FlexLogic Entry 95	OR(2)
FlexLogic Entry 96	= Z1 (VO14)
FlexLogic Entry 97	GND DIST Z2 OP
FlexLogic Entry 98	PH DIST Z2 OP
FlexLogic Entry 99	OR(2)
FlexLogic Entry 100	= Z2 (VO15)
FlexLogic Entry 101	GND DIST Z3 OP
FlexLogic Entry 102	PH DIST Z3 OP
FlexLogic Entry 103	OR(2)
FlexLogic Entry 104	= Z3 (VO16)
FlexLogic Entry 105	PH DIST Z1 OP
FlexLogic Entry 106	PH DIST Z2 OP
FlexLogic Entry 107	PH DIST Z3 OP

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 DESCRIPTION: (NONE)  
 INTERFACE: IP:10.90.38.135 | ADDR:254 | PORT: 502

FLEXLOGIC EQUATION EDITOR (continued from last page)

FlexLogic Entry 108	OR(3)
FlexLogic Entry 109	= 21-21 Phase (VO17)
FlexLogic Entry 110	GND DIST Z3 OP
FlexLogic Entry 111	GND DIST Z3 OP
FlexLogic Entry 112	GND DIST Z3 OP
FlexLogic Entry 113	OR(3)
FlexLogic Entry 114	= 21-21N (VO18)
FlexLogic Entry 115	END

FLEXLOGIC TIMERS

Timer 1: Type	millisecond
Timer 1: Pickup Delay	0
Timer 1: Dropout Delay	2500
Timer 3: Type	millisecond
Timer 3: Pickup Delay	0
Timer 3: Dropout Delay	500
Timer 8: Type	second
Timer 8: Pickup Delay	30
Timer 8: Dropout Delay	1

GROUPED ELEMENTS

GROUP 1

LINE PICKUP [GROUP 1]

Function	Enabled
Signal Source	APORTE (SRC 1)
Phase IOC Line Pickup	2.000 pu
UV Pickup	0.800 pu
Line End Open Pickup Delay	0.200 s
Line End Open Reset Delay	0.200 s
OV Pickup Delay	0.200 s
Autoreclose Coordination Bypass	Enabled
Autoreclose Coordination Pickup Delay	0.045 s
Autoreclose Coordination Reset Delay	0.005 s
Terminal Open	52B1 On(H1a)
AR Accelerate	OFF
Distance Trip	Enabled
Block	OFF
Target	Self-reset
Events	Enabled

DISTANCE

DISTANCE [GROUP 1]

Source	APORTE (SRC 1)
Memory Duration	10 cycles
Force Self-Polar	OFF
Force Mem-Polar	OFF

PHASE DISTANCE [GROUP 1]

PHASE DISTANCE Z1: Function	Enabled
PHASE DISTANCE Z1: Direction	Forward
PHASE DISTANCE Z1: Shape	Mho

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PHASE DISTANCE [GROUP 1] (continued from last page)

PHASE DISTANCE Z1: Xfmr Vol Connection	None
PHASE DISTANCE Z1: Xfmr Curr Connection	None
PHASE DISTANCE Z1: Reach	1.37 ohms
PHASE DISTANCE Z1: RCA	60 deg
PHASE DISTANCE Z1: Rev Reach	0.02 ohms
PHASE DISTANCE Z1: Rev Reach RCA	60 deg
PHASE DISTANCE Z1: Comp Limit	90 deg
PHASE DISTANCE Z1: DIR RCA	60 deg
PHASE DISTANCE Z1: DIR Comp Limit	90 deg
PHASE DISTANCE Z1: Quad Right Blinder	10.00 ohms
PHASE DISTANCE Z1: Quad Right Blinder RCA	85 deg
PHASE DISTANCE Z1: Quad Left Blinder	10.00 ohms
PHASE DISTANCE Z1: Quad Left Blinder RCA	85 deg
PHASE DISTANCE Z1: Supervision	0.100 pu
PHASE DISTANCE Z1: Volt Level	0.000 pu
PHASE DISTANCE Z1: Delay	0.000 s
PHASE DISTANCE Z1: Block	SRC1 VT FUSE FAIL OP
PHASE DISTANCE Z1: Target	Latched
PHASE DISTANCE Z1: Events	Enabled
PHASE DISTANCE Z2: Function	Enabled
PHASE DISTANCE Z2: Direction	Forward
PHASE DISTANCE Z2: Shape	Mho
PHASE DISTANCE Z2: Xfmr Vol Connection	None
PHASE DISTANCE Z2: Xfmr Curr Connection	None
PHASE DISTANCE Z2: Reach	2.30 ohms
PHASE DISTANCE Z2: RCA	60 deg
PHASE DISTANCE Z2: Rev Reach	0.02 ohms
PHASE DISTANCE Z2: Rev Reach RCA	60 deg
PHASE DISTANCE Z2: Comp Limit	90 deg
PHASE DISTANCE Z2: DIR RCA	60 deg
PHASE DISTANCE Z2: DIR Comp Limit	90 deg
PHASE DISTANCE Z2: Quad Right Blinder	10.00 ohms
PHASE DISTANCE Z2: Quad Right Blinder RCA	85 deg
PHASE DISTANCE Z2: Quad Left Blinder	10.00 ohms
PHASE DISTANCE Z2: Quad Left Blinder RCA	85 deg
PHASE DISTANCE Z2: Supervision	0.100 pu
PHASE DISTANCE Z2: Volt Level	0.000 pu
PHASE DISTANCE Z2: Delay	0.500 s
PHASE DISTANCE Z2: Block	SRC1 VT FUSE FAIL OP
PHASE DISTANCE Z2: Target	Latched
PHASE DISTANCE Z2: Events	Enabled
PHASE DISTANCE Z3: Function	Enabled
PHASE DISTANCE Z3: Direction	Forward
PHASE DISTANCE Z3: Shape	Mho
PHASE DISTANCE Z3: Xfmr Vol Connection	None
PHASE DISTANCE Z3: Xfmr Curr Connection	None
PHASE DISTANCE Z3: Reach	3.42 ohms
PHASE DISTANCE Z3: RCA	60 deg
PHASE DISTANCE Z3: Rev Reach	0.02 ohms
PHASE DISTANCE Z3: Rev Reach RCA	60 deg
PHASE DISTANCE Z3: Comp Limit	90 deg

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**DESCRIPTION: (NONE)**  
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PHASE DISTANCE [GROUP 1] (continued from last page)

PHASE DISTANCE Z3: DIR RCA	60 deg
PHASE DISTANCE Z3: DIR Comp Limit	90 deg
PHASE DISTANCE Z3: Quad Right Blinder	10.00 ohms
PHASE DISTANCE Z3: Quad Right Blinder RCA	85 deg
PHASE DISTANCE Z3: Quad Left Blinder	10.00 ohms
PHASE DISTANCE Z3: Quad Left Blinder RCA	85 deg
PHASE DISTANCE Z3: Supervision	0.100 pu
PHASE DISTANCE Z3: Volt Level	0.000 pu
PHASE DISTANCE Z3: Delay	0.900 s
PHASE DISTANCE Z3: Block	SRC1 VT FUSE FAIL OP
PHASE DISTANCE Z3: Target	Latched
PHASE DISTANCE Z3: Events	Enabled

GROUND DISTANCE [GROUP 1]

GROUND DISTANCE Z1: Function	Enabled
GROUND DISTANCE Z1: Direction	Forward
GROUND DISTANCE Z1: Shape	Mho
GROUND DISTANCE Z1: Z0/Z1 Mag	3.32
GROUND DISTANCE Z1: Z0/Z1 Ang	11 deg
GROUND DISTANCE Z1: Z0M/Z1 Mag	0.00
GROUND DISTANCE Z1: Z0M/Z1 Ang	0 deg
GROUND DISTANCE Z1: Reach	1.02 ohms
GROUND DISTANCE Z1: RCA	60 deg
GROUND DISTANCE Z1: Rev Reach	0.02 ohms
GROUND DISTANCE Z1: Rev Reach RCA	60 deg
GROUND DISTANCE Z1: POL Current	Neg-seq
GROUND DISTANCE Z1: Non-Homogen Ang	0.0 deg
GROUND DISTANCE Z1: Comp Limit	90 deg
GROUND DISTANCE Z1: DIR RCA	60 deg
GROUND DISTANCE Z1: DIR Comp Limit	90 deg
GROUND DISTANCE Z1: Quad Right Blinder	10.00 ohms
GROUND DISTANCE Z1: Quad Right Blinder RCA	85 deg
GROUND DISTANCE Z1: Quad Left Blinder	10.00 ohms
GROUND DISTANCE Z1: Quad Left Blinder RCA	85 deg
GROUND DISTANCE Z1: Supervision	0.100 pu
GROUND DISTANCE Z1: Volt Level	0.000 pu
GROUND DISTANCE Z1: Delay	0.000 s
GROUND DISTANCE Z1: Block	SRC1 VT FUSE FAIL OP
GROUND DISTANCE Z1: Target	Latched
GROUND DISTANCE Z1: Events	Enabled
GROUND DISTANCE Z2: Function	Enabled
GROUND DISTANCE Z2: Direction	Forward
GROUND DISTANCE Z2: Shape	Mho
GROUND DISTANCE Z2: Z0/Z1 Mag	3.32
GROUND DISTANCE Z2: Z0/Z1 Ang	11 deg
GROUND DISTANCE Z2: Z0M/Z1 Mag	0.00
GROUND DISTANCE Z2: Z0M/Z1 Ang	0 deg
GROUND DISTANCE Z2: Reach	2.70 ohms
GROUND DISTANCE Z2: RCA	60 deg
GROUND DISTANCE Z2: Rev Reach	0.02 ohms
GROUND DISTANCE Z2: Rev Reach RCA	60 deg

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 D60 OVA B1  
 DEVICE DEFINITION  
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 VERSION: 5.5X  
 DESCRIPTION: (NONE)  
 INTERFACE: IP:10.90.38.135 | ADDR:254 | PORT: 502

GROUND DISTANCE [GROUP 1] (continued from last page)

GROUND DISTANCE Z2: POL Current	Neg-seq
GROUND DISTANCE Z2: Non-Homogen Ang	0.0 deg
GROUND DISTANCE Z2: Comp Limit	90 deg
GROUND DISTANCE Z2: DIR RCA	60 deg
GROUND DISTANCE Z2: DIR Comp Limit	90 deg
GROUND DISTANCE Z2: Quad Right Blinder	10.00 ohms
GROUND DISTANCE Z2: Quad Right Blinder RCA	85 deg
GROUND DISTANCE Z2: Quad Left Blinder	10.00 ohms
GROUND DISTANCE Z2: Quad Left Blinder RCA	85 deg
GROUND DISTANCE Z2: Supervision	0.100 pu
GROUND DISTANCE Z2: Volt Level	0.000 pu
GROUND DISTANCE Z2: Delay	0.500 s
GROUND DISTANCE Z2: Block	SRC1 VT FUSE FAIL OP
GROUND DISTANCE Z2: Target	Latched
GROUND DISTANCE Z2: Events	Enabled
GROUND DISTANCE Z3: Function	Enabled
GROUND DISTANCE Z3: Direction	Forward
GROUND DISTANCE Z3: Shape	Mho
GROUND DISTANCE Z3: Z0/Z1 Mag	3.32
GROUND DISTANCE Z3: Z0/Z1 Ang	11 deg
GROUND DISTANCE Z3: Z0M/Z1 Mag	0.00
GROUND DISTANCE Z3: Z0M/Z1 Ang	0 deg
GROUND DISTANCE Z3: Reach	3.86 ohms
GROUND DISTANCE Z3: RCA	60 deg
GROUND DISTANCE Z3: Rev Reach	0.02 ohms
GROUND DISTANCE Z3: Rev Reach RCA	60 deg
GROUND DISTANCE Z3: POL Current	Neg-seq
GROUND DISTANCE Z3: Non-Homogen Ang	0.0 deg
GROUND DISTANCE Z3: Comp Limit	90 deg
GROUND DISTANCE Z3: DIR RCA	60 deg
GROUND DISTANCE Z3: DIR Comp Limit	90 deg
GROUND DISTANCE Z3: Quad Right Blinder	10.00 ohms
GROUND DISTANCE Z3: Quad Right Blinder RCA	85 deg
GROUND DISTANCE Z3: Quad Left Blinder	10.00 ohms
GROUND DISTANCE Z3: Quad Left Blinder RCA	85 deg
GROUND DISTANCE Z3: Supervision	0.100 pu
GROUND DISTANCE Z3: Volt Level	0.000 pu
GROUND DISTANCE Z3: Delay	1.500 s
GROUND DISTANCE Z3: Block	SRC1 VT FUSE FAIL OP
GROUND DISTANCE Z3: Target	Latched
GROUND DISTANCE Z3: Events	Enabled

NEUTRAL CURRENT

NEUTRAL TOC [GROUP 1]

NEUTRAL TOC1: Function	Enabled
NEUTRAL TOC1: Source	APORTE (SRC 1)
NEUTRAL TOC1: Input	Phasor
NEUTRAL TOC1: Pickup	0.300 pu
NEUTRAL TOC1: Curve	IEC Curve B
NEUTRAL TOC1: TD Multiplier	0.40
NEUTRAL TOC1: Reset	Instantaneous



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 DESCRIPTION: (NONE)  
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NEUTRAL TOC [GROUP 1] (continued from last page)

NEUTRAL TOC1: Block	NTRL DIR OC1 REV
NEUTRAL TOC1: Target	Latched
NEUTRAL TOC1: Events	Enabled

NEUTRAL IOC [GROUP 1]

NEUTRAL IOC1: Function	Enabled
NEUTRAL IOC1: Source	APORTE (SRC 1)
NEUTRAL IOC1: Pickup	3.300 pu
NEUTRAL IOC1: Delay	0.00 s
NEUTRAL IOC1: Reset Delay	0.00 s
NEUTRAL IOC1: Block	NTRL DIR OC1 REV
NEUTRAL IOC1: Target	Latched
NEUTRAL IOC1: Events	Enabled

NEUTRAL DIRECTIONAL OC [GROUP 1]

NEUTRAL DIR OC1: Function	Enabled
NEUTRAL DIR OC1: Source	APORTE (SRC 1)
NEUTRAL DIR OC1: Polarizing	Voltage
NEUTRAL DIR OC1: Polarizing Volt	Calculated V0
NEUTRAL DIR OC1: Op Current	Calculated 310
NEUTRAL DIR OC1: POS SEQ Restraint	0.063
NEUTRAL DIR OC1: Offset	0.00 ohms
NEUTRAL DIR OC1: Forward ECA	75 ° Lag
NEUTRAL DIR OC1: Forward Limit Angle	85 deg
NEUTRAL DIR OC1: Forward Pickup	0.080 pu
NEUTRAL DIR OC1: Reverse Limit Angle	85 deg
NEUTRAL DIR OC1: Reverse Pickup	0.080 pu
NEUTRAL DIR OC1: Block	SRC1 VT FUSE FAIL OP
NEUTRAL DIR OC1: Target	Self-reset
NEUTRAL DIR OC1: Events	Disabled

CONTROL ELEMENTS

TRIP BUS

Trip Bus 1 Function	Enabled
Trip Bus 1 Block	OFF
Trip Bus 1 Pickup Delay	0.00 s
Trip Bus 1 Reset Delay	0.00 s
Trip Bus 1 Input 1	LINE PICKUP OP
Trip Bus 1 Input 2	PH DIST Z1 OP
Trip Bus 1 Input 3	PH DIST Z2 OP
Trip Bus 1 Input 4	PH DIST Z3 OP
Trip Bus 1 Input 5	GND DIST Z1 OP
Trip Bus 1 Input 6	GND DIST Z2 OP
Trip Bus 1 Input 7	GND DIST Z3 OP
Trip Bus 1 Input 8	NEUTRAL TOC1 OP
Trip Bus 1 Input 9	NEUTRAL IOC1 OP
Trip Bus 1 Input 10	OFF
Trip Bus 1 Input 11	OFF
Trip Bus 1 Input 12	OFF
Trip Bus 1 Input 13	OFF
Trip Bus 1 Input 14	OFF

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TRIP BUS (continued from last page)

Trip Bus 1 Input 15	OFF
Trip Bus 1 Input 16	OFF
Trip Bus 1 Latching	Disabled
Trip Bus 1 Reset	52B1 Off(H1a)
Trip Bus 1 Target	Self-reset
Trip Bus 1 Events	Enabled

SETTING GROUPS

Function	Enabled
Block	OFF
Group 2 Activate On	OFF
Group 3 Activate On	OFF
Group 4 Activate On	OFF
Group 5 Activate On	OFF
Group 6 Activate On	OFF
Group 1 Name	CONFIGURACION 1
Group 2 Name	
Group 3 Name	
Group 4 Name	
Group 5 Name	
Group 6 Name	
Events	Disabled
Current Setting Group	1

TRIP OUTPUT

Trip Mode	3 Pole Only
Trip 3-Pole Input1	REP Z2 Z3 On (VO11)
Trip 3-Pole Input2	63A1-Y/52B1 On(H1e)
Trip 3-Pole Input3	52B2 On(H5a)
Trip 3-Pole Input4	NEUTRAL TOC1 OP
Trip 3-Pole Input5	52B1 On(H1a)
Trip 3-Pole Input6	OFF
Trip 1-Pole Input1	OFF
Trip 1-Pole Input2	OFF
Trip 1-Pole Input3	OFF
Trip 1-Pole Input4	OFF
Trip 1-Pole Input5	OFF
Trip 1-Pole Input6	OFF
Trip Reclose Input1	OFF
Trip Reclose Input2	OFF
Trip Reclose Input3	OFF
Trip Reclose Input4	OFF
Trip Reclose Input5	OFF
Trip Reclose Input6	OFF
BKR Phase A Open	TRIP On (VO1)
BKR Phase B Open	TRIP On (VO1)
BKR Phase C Open	TRIP On (VO1)
Trip Force 3-Pole	OFF
Trip Pilot Priority	0.000 s
Reverse Fault	OFF
Trip Delay On Evolving Faults	0.000 s

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TRIP OUTPUT (continued from last page)  
 Trip Events Enabled

SYNCHROCHECK  
 SYNCHROCHECK1: Function Enabled  
 SYNCHROCHECK1: Block BLOQUEO 25 On (VO12)  
 SYNCHROCHECK1: V1 Source APORTE (SRC 1)  
 SYNCHROCHECK1: V2 Source AUX (SRC 2)  
 SYNCHROCHECK1: Max Volt Diff 3810 V  
 SYNCHROCHECK1: Max Angle Diff 20 deg  
 SYNCHROCHECK1: Max Freq Diff 0.60 Hz  
 SYNCHROCHECK1: Max Freq Hysteresis 0.06 Hz  
 SYNCHROCHECK1: Dead Source Select DV1 or DV2  
 SYNCHROCHECK1: Dead V1 Max Volt 0.30 pu  
 SYNCHROCHECK1: Dead V2 Max Volt 0.30 pu  
 SYNCHROCHECK1: Live V1 Min Volt 0.70 pu  
 SYNCHROCHECK1: Live V2 Min Volt 0.70 pu  
 SYNCHROCHECK1: Target Self-reset  
 SYNCHROCHECK1: Events Enabled

MONITORING ELEMENTS  
VT FUSE FAILURE  
 VT FUSE FAILURE 1: Function Enabled

AUTORECLOSE 1P  
 Function Enabled  
 Mode 3 Pole - B  
 Max Number Of Shots 1  
 Block BKR1 63A1-Y/52B1 On(H1c)  
 Close Time BKR1 1.85 s  
 BKR Man Close OFF  
 Blk Time Upon Man Cls 0.00 s  
 1-P Init OFF  
 3-P Init HABILITA 79 On (VO2)  
 3-P TD Init OFF  
 Multi P Fault OFF  
 BKR 1 Pole Open OFF  
 BKR 3 Pole Open BREAKER 1 OPEN  
 3-P Dead Time 1 2.00 s  
 3-P Dead Time 2 0.00 s  
 3-P Dead Time 3 0.00 s  
 3-P Dead Time 4 0.00 s  
 Extend Dead T1 OFF  
 Dead T1 Extension 0.50 s  
 Reset 79 RESET On (VO9)  
 Reset Time 15.00 s  
 BKR Closed BREAKER 1 CLOSED  
 Block 79/c On (VO3)  
 Pause OFF  
 Inc Seq Time 5.00 s  
 Block BKR2 OFF  
 Close Time BKR2 0.10 s

SE OVALLE

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DEVICE DEFINITION

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DESCRIPTION: (NONE)

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AUTORECLOSE 1P (continued from last page)

Transfer 1 to 2	No
Transfer 2 to 1	No
BKR1 Fail Option	Continue
BKR2 Fail Option	Continue
1-P Dead Time	1.00 s
BKR Sequence	1 - 2
Transfer Time	4.00 s
BUS FLT Init	OFF
Event	Enabled

INPUTS/OUTPUTS

CONTACT INPUTS

[H1a] Contact Input 1a ID	52B1
[H1a] Contact Input 1a Debounce Time	2.0 ms
[H1a] Contact Input 1a Events	Enabled
[H1c] Contact Input 1c ID	63A1-Y/52B1
[H1c] Contact Input 1c Debounce Time	2.0 ms
[H1c] Contact Input 1c Events	Enabled
[H2a] Contact Input 2a ID	79/C
[H2a] Contact Input 2a Debounce Time	2.0 ms
[H2a] Contact Input 2a Events	Enabled
[H2c] Contact Input 2c ID	79/B
[H2c] Contact Input 2c Debounce Time	2.0 ms
[H2c] Contact Input 2c Events	Enabled
[H3a] Contact Input 3a ID	BLOQUEO 79
[H3a] Contact Input 3a Debounce Time	2.0 ms
[H3a] Contact Input 3a Events	Enabled
[H3c] Contact Input 3c ID	79/D
[H3c] Contact Input 3c Debounce Time	2.0 ms
[H3c] Contact Input 3c Events	Enabled
[H4a] Contact Input 4a ID	52B2
[H4a] Contact Input 4a Debounce Time	2.0 ms
[H4a] Contact Input 4a Events	Disabled
[H4c] Contact Input 4c ID	62 L1 MOL
[H4c] Contact Input 4c Debounce Time	2.0 ms
[H4c] Contact Input 4c Events	Disabled
[H5a] Contact Input 5a ID	52B2
[H5a] Contact Input 5a Debounce Time	2.0 ms
[H5a] Contact Input 5a Events	Enabled
[H5c] Contact Input 5c ID	62 L1 MOLLES
[H5c] Contact Input 5c Debounce Time	2.0 ms
[H5c] Contact Input 5c Events	Enabled
[H6a] Contact Input 6a ID	TELECONTROL
[H6a] Contact Input 6a Debounce Time	2.0 ms
[H6a] Contact Input 6a Events	Enabled
[H6c] Contact Input 6c ID	Cont Ip 12
[H6c] Contact Input 6c Debounce Time	2.0 ms
[H6c] Contact Input 6c Events	Disabled
[H7a] Contact Input 7a ID	Cont Ip 13
[H7a] Contact Input 7a Debounce Time	2.0 ms
[H7a] Contact Input 7a Events	Disabled

SE OVALLE  
 D60 OVA B1  
 DEVICE DEFINITION  
 ORDER CODE: D60-N00-HKL-F8L-H6D-M6U-P6U-U67-W67  
 VERSION: 5.5X  
 DESCRIPTION: (NONE)  
 INTERFACE: IP:10.90.38.135 | ADDR:254 | PORT: 502

CONTACT INPUTS (continued from last page)

[H7c] Contact Input 7c ID	Cont Ip 14
[H7c] Contact Input 7c Debounce Time	2.0 ms
[H7c] Contact Input 7c Events	Disabled
[H8a] Contact Input 8a ID	Cont Ip 15
[H8a] Contact Input 8a Debounce Time	2.0 ms
[H8a] Contact Input 8a Events	Disabled
[H8c] Contact Input 8c ID	Cont Ip 16
[H8c] Contact Input 8c Debounce Time	2.0 ms
[H8c] Contact Input 8c Events	Disabled
[M7a] Contact Input 7a ID	Cont Ip 17
[M7a] Contact Input 7a Debounce Time	2.0 ms
[M7a] Contact Input 7a Events	Disabled
[M7c] Contact Input 7c ID	Cont Ip 18
[M7c] Contact Input 7c Debounce Time	2.0 ms
[M7c] Contact Input 7c Events	Disabled
[M8a] Contact Input 8a ID	Cont Ip 19
[M8a] Contact Input 8a Debounce Time	2.0 ms
[M8a] Contact Input 8a Events	Disabled
[M8c] Contact Input 8c ID	Cont Ip 20
[M8c] Contact Input 8c Debounce Time	2.0 ms
[M8c] Contact Input 8c Events	Disabled
[P7a] Contact Input 7a ID	Cont Ip 21
[P7a] Contact Input 7a Debounce Time	2.0 ms
[P7a] Contact Input 7a Events	Disabled
[P7c] Contact Input 7c ID	Cont Ip 22
[P7c] Contact Input 7c Debounce Time	2.0 ms
[P7c] Contact Input 7c Events	Disabled
[P8a] Contact Input 8a ID	Cont Ip 23
[P8a] Contact Input 8a Debounce Time	2.0 ms
[P8a] Contact Input 8a Events	Disabled
[P8c] Contact Input 8c ID	Cont Ip 24
[P8c] Contact Input 8c Debounce Time	2.0 ms
[P8c] Contact Input 8c Events	Disabled

CONTACT INPUT THRESHOLDS

52B1, 63A1-Y/52B1, 79/C, 79/B(H1a, H1c, H2a, H2c)	33 Vdc
BLOQUEO 79, 79/D, 52B2, 62 L1 MOL(H3a, H3c, H4a, H4c)	33 Vdc
52B2, 62 L1 MOLLES, TELECONTROL, Cont Ip 12(H5a, H5c, H6a, H6c)	33 Vdc
Cont Ip 13, Cont Ip 14, Cont Ip 15, Cont Ip 16(H7a, H7c, H8a, H8c)	33 Vdc
Cont Ip 17, Cont Ip 18, Cont Ip 19, Cont Ip 20(M7a, M7c, M8a, M8c)	33 Vdc
Cont Ip 21, Cont Ip 22, Cont Ip 23, Cont Ip 24(P7a, P7c, P8a, P8c)	33 Vdc

CONTACT OUTPUTS

[M1] Contact Output 1 ID	VIA 79
[M1] Contact Output 1 Operate	VIA 79/c On (VO4)

SE OVALLE

D60 OVA B1

DEVICE DEFINITION

ORDER CODE: D60-N00-HKL-F8L-H6D-M6U-P6U-U67-W67

VERSION: 5.5X

DESCRIPTION: (NONE)

INTERFACE: IP:10.90.38.135 | ADDR:254 | PORT: 502

CONTACT OUTPUTS (continued from last page)

[M1] Contact Output 1 Seal-In	OFF
[M1] Contact Output 1 Events	Enabled
[M2] Contact Output 2 ID	PARTIDA 79
[M2] Contact Output 2 Operate	79 ON On (VO8)
[M2] Contact Output 2 Seal-In	OFF
[M2] Contact Output 2 Events	Enabled
[M3] Contact Output 3 ID	TRIP
[M3] Contact Output 3 Operate	TRIPBUS 1 OP
[M3] Contact Output 3 Seal-In	OFF
[M3] Contact Output 3 Events	Enabled
[M4] Contact Output 4 ID	ALARMA 21/67
[M4] Contact Output 4 Operate	TRIP On (VO1)
[M4] Contact Output 4 Seal-In	OFF
[M4] Contact Output 4 Events	Enabled
[M5] Contact Output 5 ID	PARTIDA 86
[M5] Contact Output 5 Operate	PARTIDA 86 On (VO10)
[M5] Contact Output 5 Seal-In	OFF
[M5] Contact Output 5 Events	Enabled
[M6] Contact Output 6 ID	ALARMA 86
[M6] Contact Output 6 Operate	PARTIDA 86 On (VO10)
[M6] Contact Output 6 Seal-In	OFF
[M6] Contact Output 6 Events	Enabled
[P1] Contact Output 7 ID	25VS
[P1] Contact Output 7 Operate	BLQ MC On (VO13)
[P1] Contact Output 7 Seal-In	OFF
[P1] Contact Output 7 Events	Enabled
[P2] Contact Output 8 ID	REPLICA Z2&3
[P2] Contact Output 8 Operate	REP Z2 Z3 On (VO11)
[P2] Contact Output 8 Seal-In	OFF
[P2] Contact Output 8 Events	Enabled
[P3] Contact Output 9 ID	79ON TEST
[P3] Contact Output 9 Operate	79 ON On (VO8)
[P3] Contact Output 9 Seal-In	OFF
[P3] Contact Output 9 Events	Disabled
[P4] Contact Output 10 ID	52Pos TEST
[P4] Contact Output 10 Operate	BREAKER 1 CLOSED
[P4] Contact Output 10 Seal-In	OFF
[P4] Contact Output 10 Events	Disabled

VIRTUAL OUTPUTS

Virtual Output 1 ID	TRIP
Virtual Output 1 Events	Enabled
Virtual Output 2 ID	HABILITA 79
Virtual Output 2 Events	Enabled
Virtual Output 3 ID	79/c
Virtual Output 3 Events	Enabled
Virtual Output 4 ID	VIA 79/c
Virtual Output 4 Events	Enabled
Virtual Output 5 ID	79/d
Virtual Output 5 Events	Enabled
Virtual Output 8 ID	79 ON

SE OVALLE

D60 OVA B1

DEVICE DEFINITION

ORDER CODE: D60-N00-HKL-F8L-H6D-M6U-P6U-U67-W67

VERSION: 5.5X

DESCRIPTION: (NONE)

INTERFACE: IP:10.90.38.135 | ADDR:254 | PORT: 502

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VIRTUAL OUTPUTS (continued from last page)

Virtual Output 8 Events	Enabled
Virtual Output 9 ID	79 RESET
Virtual Output 9 Events	Enabled
Virtual Output 10 ID	PARTIDA 86
Virtual Output 10 Events	Enabled
Virtual Output 11 ID	REP Z2 Z3
Virtual Output 11 Events	Enabled
Virtual Output 12 ID	BLOQUEO 25
Virtual Output 12 Events	Enabled
Virtual Output 13 ID	BLQ MC
Virtual Output 13 Events	Enabled
Virtual Output 14 ID	Z1
Virtual Output 14 Events	Enabled
Virtual Output 15 ID	Z2
Virtual Output 15 Events	Enabled
Virtual Output 16 ID	Z3
Virtual Output 16 Events	Enabled
Virtual Output 17 ID	21-21 Phase
Virtual Output 17 Events	Enabled
Virtual Output 18 ID	21-21N
Virtual Output 18 Events	Enabled
Virtual Output 64 ID	Osc Trigger
Virtual Output 64 Events	Enabled

**INFORME DE FALLA**  
REQUERIMIENTO NORMA TÉCNICA DE SyCS

INFORME (s) QUINTO DÍA N°: <b>IF 2022003887</b>	FECHA DE FALLA: 01 de Noviembre de 2022
INSTALACIÓN (ES) S/E MONTE PATRIA	

**1. CAUSA U ORIGEN DE LA FALLA:**

**1.1. Fecha y hora de la Falla:**

<b>Fecha</b>	<b>01 de Noviembre 2022</b>
Hora	03:34 horas

**1.2. Localización de la falla:**

**1.2.1. Nombre de instalación donde se produjo de falla.**

Falla externa a instalaciones de CGE Transmisión S.A.

**1.2.2. Segmento al cual pertenece el equipo o elemento fallado.**

Falla externa a instalaciones de CGE Transmisión S.A.

**1.2.3. Elemento o equipo fallado.**

Falla externa a instalaciones de CGE Transmisión S.A.

**1.3. Causa origen de la falla:**

Falla externa a instalaciones de CGE Transmisión S.A., con afectación de los consumos de subestación Monte Patria de propiedad de CGE Transmisión S.A.

**1.4. Proposición de origen de la falla.**

I.- Externa



**INFORME DE FALLA**  
REQUERIMIENTO NORMA TÉCNICA DE SyCS

INFORME (s) QUINTO DÍA N°: <b>IF 2022003887</b>	FECHA DE FALLA: 01 de Noviembre de 2022
INSTALACIÓN (ES) S/E MONTE PATRIA	

**1.5. Código de falla.**

Causas de Falla	Código	Descripción
Fenómeno Físico	OPE6	Interrupción producida en instalaciones de GxTx a consecuencia de fallas en instalaciones de terceros u otro segmento (distribución, clientes libres, etc.)
Elemento del Sistema Eléctrico	-	-
Fenómeno Eléctrico	-	-
Modo	-	-

**1.6. Comuna donde se originó la falla.**

Código	Nombre la comuna
4303	Monte Patria

**1.7. Comunas afectadas por la falla.**

Código	Nombre la comuna
4303	Monte Patria

**1.8. Reiteración.**

**1.8.1. N° de Fallas en Instalación. (Últimos 24 meses móviles).**

Se presentaron 3 fallas en la instalación.

**1.8.2. N° de Fallas en Instalación con mismo Fenómeno Físico. (Últimos 24 meses móviles).**

Se presentaron 3 fallas en la instalación.

**1.8.3. Identificación de Evento de Falla que afecta a instalación en los últimos 24 meses móviles.**

IF N°	Fecha falla	Hora Falla	Código Fenómeno Físico.
IF2021002657	14-07-2022	20:08	OPE06
IF2021002658	14-07-2022	20:57	OPE06
IF2021002662	14-07-2022	21:20	OPE06

**INFORME DE FALLA**  
REQUERIMIENTO NORMA TÉCNICA DE SyCS

INFORME (s) QUINTO DÍA N°: <b>IF 2022003887</b>	FECHA DE FALLA: 01 de Noviembre de 2022
INSTALACIÓN (ES) S/E MONTE PATRIA	

**1.9. Datos de la Empresa.**

**Nombre Empresa:** CGE TRANSMISIÓN S.A.  
**RUT:** 77.465.741-K  
**Representante Legal:** Iván Arístides Quezada Escobar  
**Dirección:** Av. Presidente Riesco N° 5561 P17, las Condes, Santiago, Chile.

**2. INSTALACIONES AFECTADAS.**

Instalación Primaria Afectada			Horarios	
Subestación	Transformador AT/MT	Barra MT	Hora Desconexión	Hora Normalización
Monte Patria	T1 - T2	Barras 13,2 / 23 kV	03:34	4:10

**INFORME DE FALLA**  
REQUERIMIENTO NORMA TÉCNICA DE SyCS

INFORME (s) QUINTO DÍA N°: <b>IF 2022003887</b>	FECHA DE FALLA: 01 de Noviembre de 2022
<b>INSTALACIÓN (ES) S/E MONTE PATRIA</b>	

**3. DIAGRAMAS SIMPLIFICADOS.**

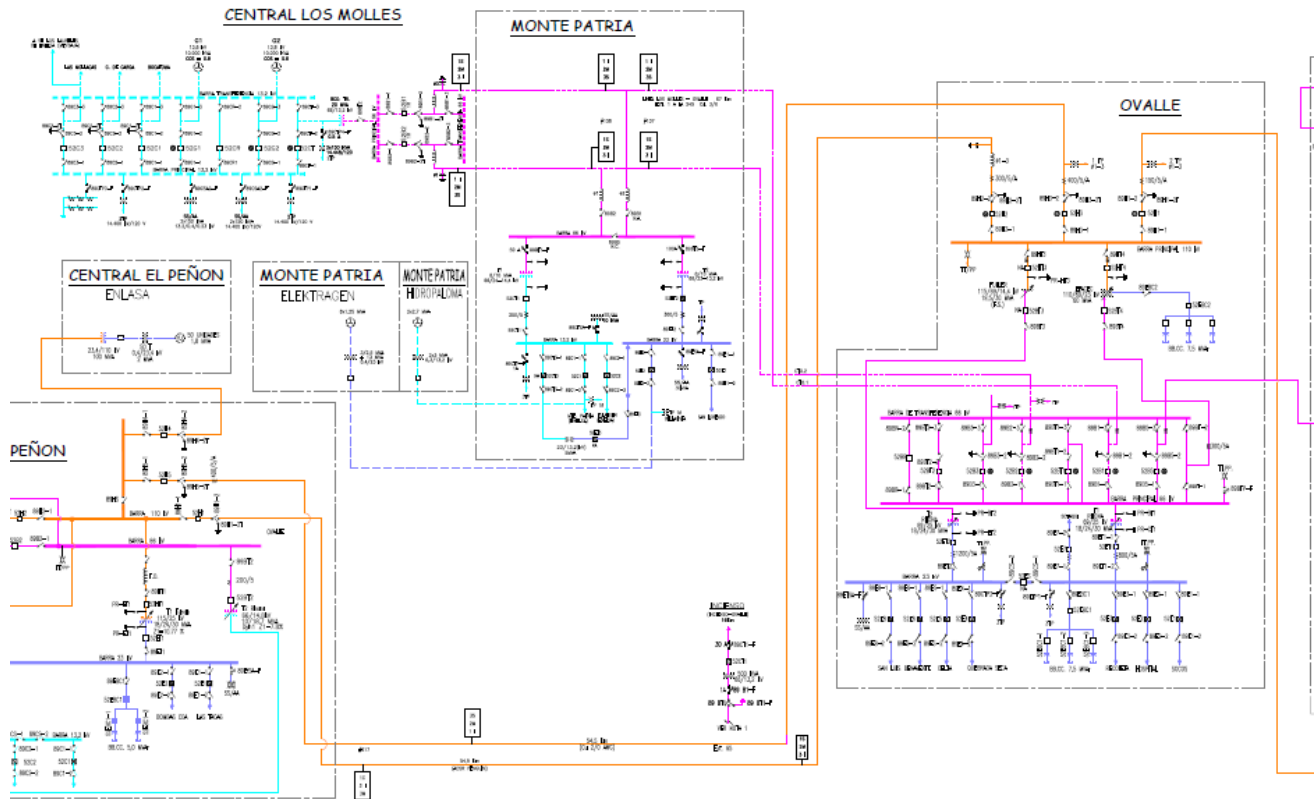


Figura 1: Diagrama Simplificado de Zona Afectada.

**4. PERDIDAS DE GENERACIÓN.**

No hay generación de propiedad de Transmisión S.A., involucrada en la falla.

## INFORME DE FALLA

### REQUERIMIENTO NORMA TÉCNICA DE SyCS

INFORME (s) QUINTO DÍA N°: <b>IF 2022003887</b>	FECHA DE FALLA: 01 de Noviembre de 2022
INSTALACIÓN (ES) S/E MONTE PATRIA	

#### 5. POTENCIA INTERRUMPIDA DE CLIENTES FINALES.

Subestación	Transformador	Alimentador		MW	Horario		Distribuidora
	(Primario)	Nombre	Nema		Desconexión	Normalización	
<b>Monte Patria</b>	T1	Cto. San Lorenzo	E1	1,15	3:34	4:10	<b>CGE</b>
		Cto. Bellavista	E2	1,07	3:34	4:10	<b>CGE</b>
	T2	Cto. El Palqui	C1	0,78	3:34	4:10	<b>CGE</b>
		Cto. Tulahén	C2	0,6	3:34	4:10	<b>CGE</b>
<b>Total</b>				<b>3,6</b>			

**ENS: 2,16 MWh.**

Nota: Las pérdidas de consumo informadas corresponden a magnitudes de potencia medidas en sistemas de CGE Transmisión S.A. (Cabecera de alimentadores), en consecuencia, estos valores consideran el aporte de los PMGD conectados en red de MT y no representan los consumos efectivamente desprendidos.

**INFORME DE FALLA**  
REQUERIMIENTO NORMA TÉCNICA DE SyCS

INFORME (s) QUINTO DÍA N°: <b>IF 2022003887</b>	FECHA DE FALLA: 01 de Noviembre de 2022
INSTALACIÓN (ES) S/E MONTE PATRIA	

**6. CRONOLOGÍA DE EVENTOS Y DESCRIPCIÓN DE CAUSAS.**

SUBESTACIÓN	EVENTO	HORARIO
Monte Patria	Pérdida de suministro por falla externa, aguas arriba a instalaciones de CGE TRANSMISION, afectando a consumos de S/E Monte Patria, asociado a desconexión forzada por protecciones de Línea 66kV Molles-Ovalle N°2 (TRANSELEC).	03:34
Ovalle	Desconexión forzada por protecciones del 52B2, asociado línea 66 kV Ovalle-Los Molles Cto. 2 (propiedad de Transelec).	03:34
Los Molles	Desconexión forzada por protecciones del 52B2, asociado línea 66 kV Ovalle-Los Molles Cto. 2 (propiedad de Transelec).	03:34
<b>MANIOBRAS DE NORMALIZACIÓN</b>		
Ovalle	Cierre del 52B2 LT 66 KV Ovalle-M. Patria N° 2 (Se recupera el 100% de los consumos de S/E Monte Patria).	04:10
Los Molles	Cierre del 52B2 LT 66 KV Ovalle-M. Patria N° 2	04:11

**7. ESQUEMAS DE PROTECCIÓN Y CONTROL INVOLUCRADOS EN LA FALLA.**

No hay protecciones propiedad de CGE Transmisión involucradas en la falla.

**INFORME DE FALLA**  
**REQUERIMIENTO NORMA TÉCNICA DE SyCS**

INFORME (s) QUINTO DÍA Nº: <b>IF 2022003887</b>	FECHA DE FALLA: 01 de Noviembre de 2022
INSTALACIÓN (ES) S/E MONTE PATRIA	

**8 ACCIONES CORRECTIVAS.**

**8.3** Acciones Correctivas de Corto Plazo.

No aplica, falla en instalaciones de terceros.

**8.4** Acciones correctivas de Largo Plazo

No aplica, falla en instalaciones de terceros.

**9 CONCLUSIONES.**

En función de los antecedentes expuestos en el presente documento, se concluye que la pérdida de suministro en S/E Monte Patria fue producto de falla externa a instalaciones de CGE Transmisión.

**10 ANALISIS CONJUNTO.**

El martes 01 de noviembre de 2022, a las 03:34 horas, se produce falla externa a instalaciones de CGE Transmisión, en instalaciones de propiedad de TRANSELEC. Afectando los consumos en la subestación Monte Patria de propiedad de CGE.

La falla es normalizada mediante el cierre 52B2 en S/E Ovalle a las 4:10 hrs, recuperando el 100 % de los consumos en S/E Monte Patria.

INFORME (s) QUINTO DÍA N°: <b>IF 2022003898</b>	FECHA DE FALLA: 01-11 -2022Día de Mes de Año
INSTALACIÓN (ES) SE MONTE PATRIA	

**1. CAUSA U ORIGEN DE LA FALLA:****1.1. Fecha y hora de la Falla:**

Fecha	Día de Mes Año
Hora	01-11-2022 03:34 horas

**1.2. Localización de la falla en Instalaciones de Transmisión.****1.2.1. Nombre de subestación con pérdida de suministro.**  
SE MONTE PATRIA**1.3. Datos de la Empresa.**

**Nombre Empresa:** Compañía General de Electricidad S.A  
**RUT:** 76.411.321-7  
**Representante Legal:** (Gerente General vigente a la fecha de envío).  
**Dirección:** Av. Presidente Riesco N° 5561 P14, las Condes,  
Santiago, Chile.

**INFORME DE FALLA**  
REQUERIMIENTO NORMA TÉCNICA DE SyCS

INFORME (s) QUINTO DÍA N°: <b>IF 2022003898</b>	FECHA DE FALLA: 01-11 -2022Día de Mes de Año
INSTALACIÓN (ES) SE MONTE PATRIA	

**2. POTENCIA INTERRUMPIDA DE CLIENTES FINALES.**

Subestación	Transformador	Alimentador		MW	Horario		Bloque	Clientes Afectados	kVa afectados	Distribuidora	Comunas	Urbano / Rural	N Documento Centrality
	(Primario)	Nombre	Nema		Desconexión	Normalización			(potencia instalada Dx)				
Monte Patria	T1	Cto. San Lorenzo	E1	1,15	3:34	4:10	1	3028	11674	CGE	MONTE PATRIA	R	3022776160
		Cto. Bellavista	E2	1,07	3:34	4:10	1	3112	9097	CGE	MONTE PATRIA	R	3022776160
	T2	Cto. El Palqui	C1	0,78	3:34	4:10	1	419	1737	CGE	MONTE PATRIA	R	3022776160
		Cto. Tulahén	C2	0,6	3:34	4:10	1	2018	6571	CGE	MONTE PATRIA	R	3022776160
<b>Total</b>				<b>3,6</b>				<b>8577</b>	<b>29079</b>				

ENS: **2,16 MWH.**  
N° de clientes afectados CGE: **8.577**





**INFORME DE FALLA**  
REQUERIMIENTO NORMA TÉCNICA DE SyCS

INFORME (s) QUINTO DÍA N°: <b>IF 2022003898</b>	FECHA DE FALLA: 01-11 -2022Día de Mes de Año
INSTALACIÓN (ES) SE MONTE PATRIA	

**No hay PMGD conectados a los Alimentadores afectados.**

ID Barra	Barra	ID Paño	Paño	Nombre Alimentador de cabecera	Pérdida de consumo [MW]	Hora de Desconexión [dd-mm-yyyy hh:mm]	Tiempo de interrupción equivalente Tr [horas]	Hora de Normalización equivalente [dd-mm-yyyy hh:mm]	Comunas Afectadas	Sistema de Tx Zonal	Energía Interrumpida según Artículo 3-12 NT (MWh)	N° Clientes Afectados sin considerar demoras en la recuperación de servicio	Energía Interrumpida según Artículo 2-5 NT (MWh)	N° Clientes Afectados considerando demoras en la recuperación de servicio	ID Coordinado	Coordinado	Tipo de cliente	ID Cliente Libre Dx	Cliente Libre Dx	Cpph equivalente [MW]
192	BA S/E MONT	1243	S/E MONTE PATRIA C1	EL PALQUI	0,55	01-11-2022 3:34	0,6	01-11-2022 4:10	MONTE PATR B		0,06204772	326	0	0	247	CGE S.A.	RE	No aplica	No aplica	0,10341286
192	BA S/E MONT	1243	S/E MONTE PATRIA C1	EL PALQUI	0,23	01-11-2022 3:34	0,6	01-11-2022 4:10	OVALLE B		0,02540775	93	0	0	247	CGE S.A.	RE	No aplica	No aplica	0,04234624
292	BA S/E MONT	1235	S/E MONTE PATRIA E2	BELLAVISTA	1,07	01-11-2022 3:34	0,6	01-11-2022 4:10	MONTE PATR B		0,46190486	3112	0	0	247	CGE S.A.	RE	No aplica	No aplica	0,76984143
292	BA S/E MONT	1240	S/E MONTE PATRIA E1	SAN LORENZO	1,15	01-11-2022 3:34	0,6	01-11-2022 4:10	MONTE PATR B		0,56924711	3028	0	0	247	CGE S.A.	RE	No aplica	No aplica	0,94874519
292	BA S/E MONT	1242	S/E MONTE PATRIA C2	TULAHUEN	0,7	01-11-2022 3:34	0,6	01-11-2022 4:10	MONTE PATR B		0,57640983	2018	0	0	247	CGE S.A.	RE	No aplica	No aplica	0,96068306

Incendencia_ID	Barra_ID	Barra	Paño_ID	Paño	Alimentad	Potencia (MW)	Fecha_Inicio	Horas	Fecha_Fin	Comuna	Cientes	Coordinad	Coordinad	Tipo	ID_Libre	Libre	CPPH
3022776160	192	BA S/E MON	1243	S/E MONTE	EL PALQUI	0,78	01-11-2022 3:34	0,6	01-11-2022 4:10	MONTE PATI	419	247	CGE S.A.	RE	No Aplica	No Aplica	0,152
3022776160	292	BA S/E MON	1235	S/E MONTE	BELLAVISTA	1,07	01-11-2022 3:34	0,6	01-11-2022 4:10	MONTE PATI	3112	247	CGE S.A.	RE	No Aplica	No Aplica	0,771
3022776160	292	BA S/E MON	1240	S/E MONTE	SAN LOREN.	1,15	01-11-2022 3:34	0,6	01-11-2022 4:10	MONTE PATI	3028	247	CGE S.A.	RE	No Aplica	No Aplica	0,954
3022776160	292	BA S/E MON	1242	S/E MONTE	TULAHUEN	0,6	01-11-2022 3:34	0,6	01-11-2022 4:10	MONTE PATI	2018	247	CGE S.A.	RE	No Aplica	No Aplica	0,88



TITLE:

AVAILABLE LANGUAGE: SP

INFORME DE FALLA  
 DESCONEXIÓN UNIDAD 1 CENTRAL LOS MOLLES  
 MARTES 01 DE NOVIEMBRE DE 2022 A LAS 03:33 h.

0A	08/11/22	Technical Report	F. SEREY	V.CONTRERAS	F. RIVERA	C. SAA
REV.	DATE	DESCRIPTION	PREPARED by	COLLABORATORS	VERIFIED by	VALIDATED by
PROJECT / PLANT		EGP CODE				
CENTRAL CIPRESES		GROUP	COUNTRY	AREA	TYPE	PROGRESSIVE
		G	R	E	C	H
		L	O	E	M	I
		F	4	2	7	8
		0	A			
CLASSIFICATION	PUBLIC COMPANY	<input checked="" type="checkbox"/>	CONFIDENTIAL	<input type="checkbox"/>	UTILIZATION SCOPE	BOP TENDER
	COMPANY	<input type="checkbox"/>	RESTRICTED	<input type="checkbox"/>		
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## INFORME DE FALLA

<b>EQUIPO AFECTADO</b>	Unidad 1 Central Los Molles
<b>TITULO DE LA FALLA</b>	Desconexión Unidad 1 Central Los Molles
<b>FECHA Y HORA DE INICIO DE LA FALLA</b>	Martes 01 de noviembre de 2022 a las 03:33 horas

### 1. EMPRESA PROPIETARIA DE LA INSTALACIÓN FALLADA.

- Nombre empresa: Enel Generación S.A.
- Rut: 91.081.000-6
- Representante Legal: James Lee Stancampiano
- Dirección: Santa Rosa 76, Santiago, Chile.

### 2. CALIFICACIÓN DE LA UBICACIÓN DE LA INSTALACIÓN DONDE SE PRODUJO LA FALLA, DE ACUERDO AL DECRETO 327 DEL AÑO 1997, TÍTULO IX, ARTÍCULO 25 DEL MINISTERIO DE MINERÍA.

De acuerdo con el Decreto 327 del año 1997, Título IX, Artículo 25 del Ministerio de Minería, la ubicación de la instalación donde se produjo la falla se califica como Rural.

### 3. DESCRIPCIÓN DETALLADA DEL ORIGEN DE LA FALLA

El 01 de noviembre del 2022 a las 3:33 horas, se produjo la operación del relé 86M asociado a la Unidad 1 de la Central Los Molles, debido a la detección de una sobrevelocidad mecánica de la Unidad 1, por parte del sistema de control de esta, provocando la desconexión de esta Unidad con aproximadamente 9 [MW] de generación. De acuerdo con el Informe Diario del CEN, previo a la desconexión de la Unidad 1 de Central Los Molles, se produjo una interrupción forzada por protecciones de los Circuitos 1 y 2 de la Línea 2x66 [kV] Los Molles – Ovalle.

De acuerdo con lo anterior, luego de ocurrida esta falla y desconexión de las líneas de transmisión que conectan la Central Los Molles al SEN, La Unidad N°1 se desconecta por la sobrevelocidad detectada por parte de su sistema de control.

En cuanto a las protecciones eléctricas de la Unidad 1 de Central Los Molles, estas detectan una sobrefrecuencia mayor al umbral de operación de la etapa 3 de la función 81O (52,6 Hz), por lo que el relé, de acuerdo con su configuración, envía una señal de alarma al sistema SCADA.

De acuerdo con el informe diario del CEN, producto de la falla de las líneas 1 y 2 Los Molles – Ovalle 66 [kV], se vieron afectados los consumos de S/E Monte Patria por una potencia aproximada de 4 [MW].

#### 4. CONDICIONES DE OPERACIÓN DE LAS INSTALACIONES PREVIAS A LA PERTURBACIÓN

Momentos previos a la falla, la Unidad N°1 de Central Los Molles se encontraba en servicio con un monto de generación de 9 [MW] aproximadamente. Al momento de la falla, no se realizaban trabajos en las instalaciones afectadas.

#### 5. PROPOSICIÓN DE SU REPRESENTADA RESPECTO DE SI LA CAUSA QUE PROVOCA LA FALLA DE LA REFERENCIA ES CALIFICADA COMO INTERNA, CASO FORTUITO O FUERZA MAYOR

En virtud de lo señalado en el punto 3 del presente informe, se propone calificar la causa de la falla como Externa.

#### 6. SECUENCIA DE EVENTOS DURANTE LA EVOLUCIÓN DE LA FALLA

ANTECEDENTES DE INTERRUPCIÓN					
ITEM	FECHA	HORA	LUGAR	INTERRUPTOR	PROTECCIONES OPERADAS
01	01-11-2022	3:33	Central Los Molles	52G1	Apertura automática por relé 86M por Sobre velocidad

#### 7. SECUENCIA DE EVENTOS Y PRINCIPALES MANIOBRAS DE NORMALIZACIÓN

ANTECEDENTES DE NORMALIZACIÓN					
ITEM	FECHA	HORA	LUGAR	INTERRUPTOR	MANIOBRA
01	01-11-2022	04:10	S/E Los Molles	52B2	Conexión Circuito 2 Línea 66 kV Los Molles – Ovalle (TRANSELEC)
02	01-11-2022	21:05	S/E Los Molles	52B1	Conexión Circuito 1 Línea 66 kV Los Molles – Ovalle

					(TRANSELEC)
03	05-11-2022	14:45	Central Los Molles	52G1 - 52G2	Disponibles para el Servicio
04	05-11-2022	14:45	Central Los Molles	Central	Unidad queda limitada al gasto
05	05-11-2022	20:15	Central Los Molles	52C3	Energizado Alimentador Las Mollacas
06	06-11-2022	12:30	Los Laureles	Transf. Distribución 10kVA	CGE Energiza Transformador asociado a Comunidad Los Laureles

## 8. IMPACTO EN EL SEN Y/O CLIENTES

De acuerdo con el Informe Diario del CDC del CEN, producto de la desconexión de las líneas 1 y 2 Los Molles – Ovalle 66 [kV], se produjo la pérdida de aproximadamente 4 [MW] de consumos, correspondientes a la S/E Monte Patria.

Junto con lo anterior, se pierden los consumos correspondientes a la Comunidad Los Laureles, Clientes de CGE, conectados al alimentador Las Mollacas, de la barra 13,2kV de la Central Los Molles.

## 9. OTROS HECHOS RELEVANTES PARA LA OPERACIÓN

Al momento de la desconexión de las Líneas de Transmisión y de la Central, se verifica un incendio forestal en la zona.

Para efectos de este informe y análisis del evento de falla, no se tienen otros hechos relevantes para la operación, en lo que respecta estrictamente la Central Los Molles.



## **10. CRITERIOS DE AJUSTES Y AJUSTES DE LAS PROTECCIONES OPERADAS EN LA FALLA.**

De acuerdo con lo especificado en el Estudio de Coordinación y Ajuste de Protecciones vigente, asociado al sistema de protección ABB REG670 de la Unidad 1 de Central Los Molles, los ajustes para la función de sobrefrecuencia están de acuerdo con lo indicado en la Norma Técnica de Seguridad y Calidad de Servicio, para unidades hidroeléctricas del sistema interconectado, por lo que el relé tiene configuradas las siguientes etapas:

- Etapa 1 = 51,1 Hz, tiempo de operación de 90 segundos.
- Etapa 2 = 52,1 Hz, tiempo de operación de 15 segundos.
- Etapa 3 = 52,6 Hz, tiempo de operación de 5 segundos.

Todas estas etapas generan alarma, pero no desconexión de la unidad.

## **11. ANALISIS DEL COMPORTAMIENTO DE LAS PROTECCIONES OPERADAS EN LA FALLA**

De acuerdo con lo indicado en el Informe Diario del CEN, el 01 de noviembre del 2022 a las 3:33 horas, se produjo una interrupción forzada por protecciones de los circuitos 1 y 2 de la Línea Los Molles – Ovalle 66 [kV]. Luego de ocurrida esta falla en las líneas de transmisión y producto de la desconexión de la Central del SEN, se produce la operación del relé 86M de la Unidad, por detección de sobrevelocidad mecánica por parte del sistema de control de la Unidad N°1 de Central Los Molles, desconectando la Unidad de generación, con una potencia 9 [MW].

El sistema de protección (protecciones eléctricas) de la Unidad, detectó una sobrefrecuencia mayor a 52,6 [Hz], valor de ajuste de la tercera etapa de la función 81O, por lo que este relé, de acuerdo con su configuración, envía señal de alarma. La desconexión de la Unidad se produce debido a la operación del relé 86M, debido a la operación de la sobrevelocidad mecánica por parte del sistema de control de la Unidad.

De acuerdo con lo anterior, las protecciones operaron correctamente de acuerdo con sus ajustes.

## **12. ACCIONES CORRECTIVAS.**

No se contemplan acciones correctivas.

## **13. DIAGRAMA UNILINEAL DE LAS INSTALACIONES.**

El diagrama unilineal simplificado de las instalaciones afectadas por la falla se encuentra en el Anexo N°1.

#### 14. REGISTROS SCADA.

Los registros de SCADA y de alarmas en el momento de la falla se presentan en el Anexo N°2.

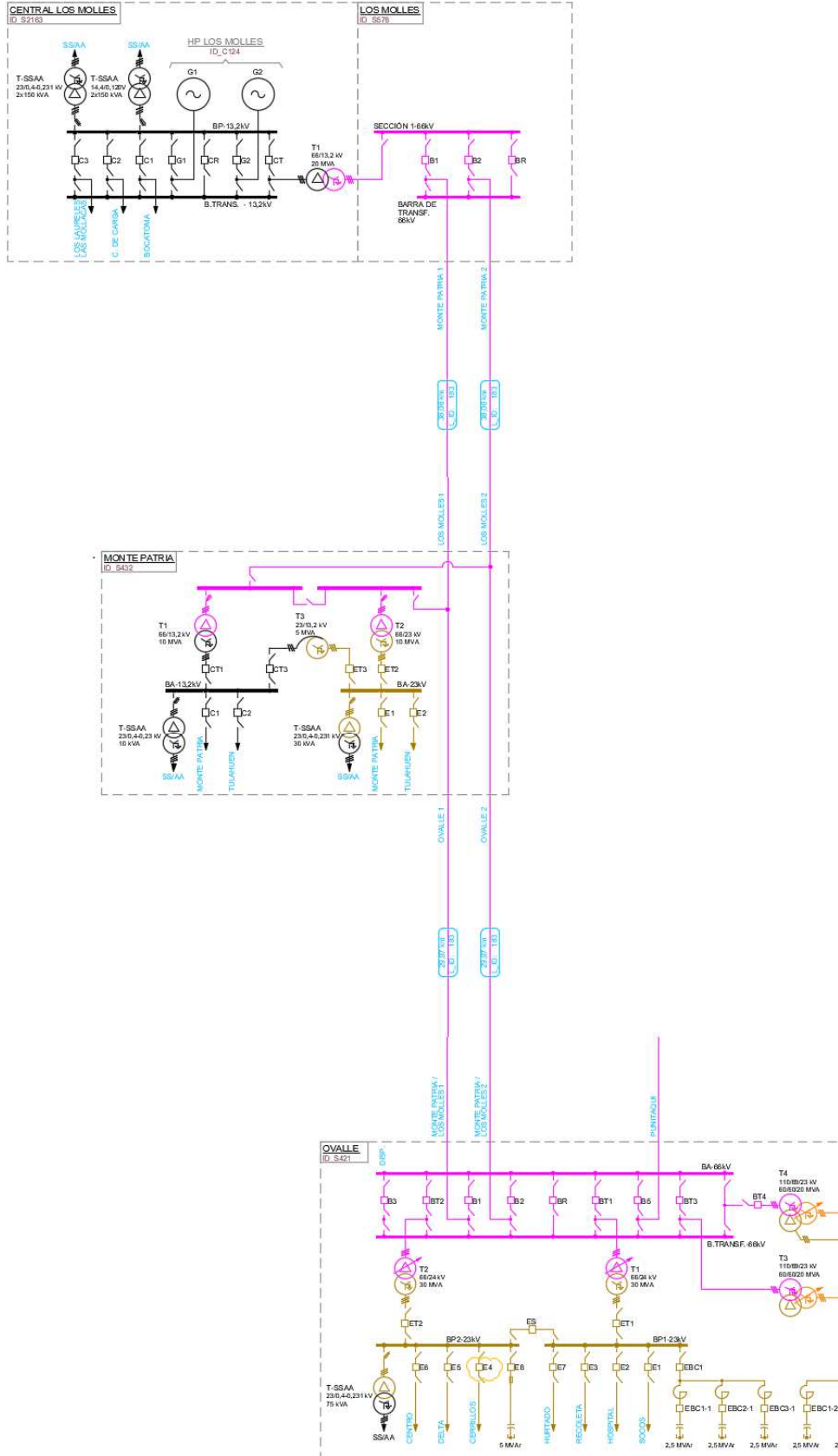
#### 15. REGISTROS DE LAS PROTECCIONES OPERADAS EN LA FALLA.

Los registros de eventos de la protección REG 670 se muestran en la siguiente tabla, cabe destacar que al no existir orden de Trip por parte de este sistema de protección, no se cuenta con oscilografías.

Type	Date & Time	Signal name	Status
P	01/11/2022 08:37:11:409	86G EXTERNO	On
P	01/11/2022 03:33:48:654	81O START E1	Off
P	01/11/2022 03:33:48:654	81O START E2	Off
P	01/11/2022 03:33:48:654	81O START E3	Off
P	01/11/2022 03:33:48:654	81O TRIP E3	Off
P	01/11/2022 03:33:48:471	41E ABIERTO	On
P	01/11/2022 03:33:48:465	41E CERRADO	Off
P	01/11/2022 03:33:48:410	52JU2 ABIERTO	On
P	01/11/2022 03:33:48:409	52JU2 CERRADO	Off
P	01/11/2022 03:33:42:118	81O TRIP E3	On
P	01/11/2022 03:33:37:118	81O START E3	On
P	01/11/2022 03:33:37:062	81O START E2	On
P	01/11/2022 03:33:36:974	27 START E1	Off
P	01/11/2022 03:33:36:966	81O START E1	On
P	01/11/2022 03:33:36:830	27 START E2	Off
P	01/11/2022 03:33:36:822	46 START E1	Off
P	01/11/2022 03:33:36:817	21 STAR ZONA2	Off
P	01/11/2022 03:33:36:814	51GEN ST1	Off
P	01/11/2022 03:33:36:814	51GEN ST2	Off
P	01/11/2022 03:33:36:798	27 START E1	On
P	01/11/2022 03:33:36:798	27 START E2	On
P	01/11/2022 03:33:36:790	27 START E1	Off
P	01/11/2022 03:33:36:790	27 START E2	Off
P	01/11/2022 03:33:36:778	21 STAR ZONA2	On
P	01/11/2022 03:33:36:750	27 START E2	On
P	01/11/2022 03:33:36:750	51GEN ST2	On
P	01/11/2022 03:33:36:742	27 START E1	On
P	01/11/2022 03:33:36:742	46 START E1	On
P	01/11/2022 03:33:36:742	51GEN ST1	On
P	01/11/2022 03:33:33:998	27 START E1	Off
P	01/11/2022 03:33:33:998	46 START E1	Off
P	01/11/2022 03:33:33:918	27 START E1	On
P	01/11/2022 03:33:33:902	46 START E1	On
P	01/11/2022 03:33:32:134	51GEN ST1	Off
P	01/11/2022 03:33:32:046	51GEN ST1	On
P	01/11/2022 03:33:31:790	51GEN ST1	Off

P	01/11/2022 03:33:31:782	51GEN ST2	Off
P	01/11/2022 03:33:31:758	27 START E1	Off
P	01/11/2022 03:33:31:702	51GEN ST2	On
P	01/11/2022 03:33:31:422	51GEN ST1	On
P	01/11/2022 03:33:31:398	46 START E1	Off
P	01/11/2022 03:33:31:294	27 START E2	Off
P	01/11/2022 03:33:31:286	51GEN ST1	Off
P	01/11/2022 03:33:31:286	51GEN ST2	Off
P	01/11/2022 03:33:31:222	27 START E2	On
P	01/11/2022 03:33:31:222	51GEN ST1	On
P	01/11/2022 03:33:31:222	51GEN ST2	On
P	01/11/2022 03:33:31:214	27 START E1	On
P	01/11/2022 03:33:31:214	46 START E1	On
P	31/10/2022 09:22:21:059	52JU2 CERRADO	On
P	31/10/2022 09:22:21:057	52JU2 ABIERTO	Off
P	31/10/2022 09:21:54:352	41E CERRADO	On
P	31/10/2022 09:21:54:349	41E CERRADO	Off

## ANEXO N°1 DIAGRAMA UNILINEAL



**ANEXO Nº2**
**REGISTRO SCADA**

3:33:25.721	LMO_00_IV_BAR66__V_	TENSION BARRA 66 KV		57.62 RN TENSION
3:33:26.221	LMO_00_IV_BAR66__V_	TENSION BARRA 66 KV		60.97 AL TENSION
3:33:26.471	LMO_00_IV_BAR66__V_	TENSION BARRA 66 KV		71.77 RN TENSION
3:33:26.471	LMO_00_IV_BARSAA__V_	TENSION BARRA SS/AA		415.94 AL TENSION
3:33:26.971	LMO_00_IV_BAR66__V_	TENSION BARRA 66 KV		71.77 AL TENSION
3:33:28.015	LMO-TH2-IVBAR-----V-	TENSION BARRA 13.8 KV OK		DESACTIVADO (0) EVT
3:33:28.471	LMO_00_IV_BAR66__V_	TENSION BARRA 66 KV		71.27 RN TENSION
3:33:28.682	LMO-TH2-IVBAR-----V-	TENSION BARRA 13.8 KV OK		DESACTIVAD EVT
3:33:28.971	LMO_00_IV_BAR66__V_	TENSION BARRA 66 KV		70.69 AL TENSION
3:33:30.014	LMO-TH2-IVBAR-----V-	TENSION BARRA 13.8 KV OK		ACTIVADO (1) EVT
3:33:30.479	LMO-TH1-4274BXCA--AL	AUSENCIA TENSION BARRA C	A SS/AA U	ACTIVADO (1) AL
3:33:30.479	LMO-00--42-74-XS2-FL	AUSENCIA TENSION SECUNDA	RIO TRAFO	ACTIVADO (1) AL
3:33:30.481	LMO-00--42-74-XS1-FL	AUSENCIA TENSION SECUNDA	RIO TRAFO	ACTIVADO (1) AL
3:33:30.481	LMO-00--42-74-BX1-FL	AUSENCIA TENSION BARRA C	A SS/AA A	ACTIVADO (1) AL
3:33:30.483	LMO-TH2-4274BXCA--AL	AUSENCIA TENSION BARRA C	A SS/AA U	ACTIVADO (1) AL
3:33:30.484	LMO-00--42-74-BP--FL	AUSENCIA TENSION BARRA P	RINC. DIS	ACTIVADO (1) AL
3:33:30.484	LMO-TH1-5174TEXO--AL	SOBRECORRIENTE TRAFO EXC	IT. NIVEL	ACTIVADO (1) AL
3:33:30.484	LMO-00--42-74-BX2-FL	AUSENCIA TENSION BARRA C	A SS/AA A	ACTIVADO (1) AL
3:33:30.506	LMO-TH2-4274BXCA--AL	AUSENCIA TENSION BARRA C	A SS/AA U	ACTIVADO (1) RN
3:33:30.506	LMO-00--42-74-BP--FL	AUSENCIA TENSION BARRA P	RINC. DIS	ACTIVADO (1) RN
3:33:30.506	LMO-00--42-74-BX1-FL	AUSENCIA TENSION BARRA C	A SS/AA A	ACTIVADO (1) RN
3:33:30.506	LMO-00--42-74-BX2-FL	AUSENCIA TENSION BARRA C	A SS/AA A	ACTIVADO (1) RN
3:33:30.507	LMO-TH1-4274BXCA--AL	AUSENCIA TENSION	A SS/AA U	ACTIVADO (1) RN

		BARRA C		
3:33:30.507	LMO-00--42-74-XS1-FL	AUSENCIA TENSION SECUNDA	RIO TRAFO	ACTIVADO (1) RN
3:33:30.510	LMO-00--42-74-XS2-FL	AUSENCIA TENSION SECUNDA	RIO TRAFO	ACTIVADO (1) RN
3:33:30.512	LMO-00--42-74-XS2-FL	AUSENCIA TENSION SECUNDA	RIO TRAFO	ACTIVADO (1) AL
3:33:30.514	LMO-00--42-74-XS2-FL	AUSENCIA TENSION SECUNDA	RIO TRAFO	ACTIVADO (1) RN
3:33:30.541	LMO-TH1-4274BXCA--AL	AUSENCIA TENSION BARRA C	A SS/AA U	ACTIVADO (1) AL
3:33:30.541	LMO-00--42-74-BX1-FL	AUSENCIA TENSION BARRA C	A SS/AA A	ACTIVADO (1) AL
3:33:30.541	LMO-00--42-74-BX1-FL	AUSENCIA TENSION BARRA C	A SS/AA A	ACTIVADO (1) RN
3:33:30.541	LMO-00--42-74-XS2-FL	AUSENCIA TENSION SECUNDA	RIO TRAFO	ACTIVADO (1) AL
3:33:30.542	LMO-TH2-4274BXCA--AL	AUSENCIA TENSION BARRA C	A SS/AA U	ACTIVADO (1) AL
3:33:30.542	LMO-TH1-4274BXCA--AL	AUSENCIA TENSION BARRA C	A SS/AA U	ACTIVADO (1) RN
3:33:30.542	LMO-TH1-4274BXCA--AL	AUSENCIA TENSION BARRA C	A SS/AA U	ACTIVADO (1) AL
3:33:30.542	LMO-00--42-74-BX1-FL	AUSENCIA TENSION BARRA C	A SS/AA A	ACTIVADO (1) AL
3:33:30.542	LMO-00--42-74-XS1-FL	AUSENCIA TENSION SECUNDA	RIO TRAFO	ACTIVADO (1) AL
3:33:30.543	LMO-TH1-4274BXCA--AL	AUSENCIA TENSION BARRA C	A SS/AA U	ACTIVADO (1) AL
3:33:30.543	LMO-00--42-74-BP--FL	AUSENCIA TENSION BARRA P	RINC. DIS	ACTIVADO (1) AL
3:33:30.544	LMO-00--42-74-BX2-FL	AUSENCIA TENSION BARRA C	A SS/AA A	ACTIVADO (1) AL
3:33:30.587	LMO-TH1-5174TEXO--AL	SOBRECORRIENTE TRAFO EXC	IT. NIVEL	ACTIVADO (1) RN
3:33:30.595	LMO-TH2-4274BXCA--AL	AUSENCIA TENSION BARRA C	A SS/AA U	ACTIVADO (1) RN
3:33:30.595	LMO-TH1-4274BXCA--AL	AUSENCIA TENSION BARRA C	A SS/AA U	ACTIVADO (1) RN
3:33:30.595	LMO-00--42-74-BP--FL	AUSENCIA TENSION BARRA P	RINC. DIS	ACTIVADO (1) RN
3:33:30.595	LMO-00--42-74-BX2-FL	AUSENCIA TENSION BARRA C	A SS/AA A	ACTIVADO (1) RN
3:33:30.595	LMO-00--42-74-BX1-FL	AUSENCIA TENSION BARRA C	A SS/AA A	ACTIVADO (1) RN
3:33:30.595	LMO-00--42-74-XS1-FL	AUSENCIA TENSION SECUNDA	RIO TRAFO	ACTIVADO (1) RN

3:33:30.595	LMO-00--42-74-XS2-FL	AUSENCIA TENSION SECUNDA	RIO TRAF0	ACTIVADO (1) RN
3:33:30.600	LMO-00--04-74-BD--FL	FALLA ALIMEN. BOMBA DE D	RENAJE	ACTIVADO (1) AL
3:33:30.601	LMO-00--04-74-BD--FL	FALLA ALIMEN. BOMBA DE D	RENAJE	ACTIVADO (1) RN
3:33:30.601	LMO-00--04-74-BD--FL	FALLA ALIMEN. BOMBA DE D	RENAJE	ACTIVADO (1) AL
3:33:30.602	LMO-00--04-74-BD--FL	FALLA ALIMEN. BOMBA DE D	RENAJE	ACTIVADO (1) AL
3:33:30.683	LMO-TH2-IVBAR-----V-	TENSION BARRA 13.8 KV OK		ACTIVADO EVT
3:33:30.689	LMO-TH2-4274FARE--AL	FALLA ALIMEN. FILTRO AUT	OMATICO R	ACTIVADO (1) AL
3:33:30.743	LMO_00__BDREN___ALM	LMO_00__BDREN ESTADO DE	ALARMA DE	2 AL Falla A
3:33:30.778	LMO-00--74RCA02---FL	FALLA ALIMEN. BOMBA CA 2	REFRIG.	ACTIVADO (1) AL
3:33:30.779	LMO-00--74RCA02---FL	FALLA ALIMEN. BOMBA CA 2	REFRIG.	ACTIVADO (1) RN
3:33:30.779	LMO-00--74RCA02---FL	FALLA ALIMEN. BOMBA CA 2	REFRIG.	ACTIVADO (1) AL
3:33:30.781	LMO-00--74RCA02---FL	FALLA ALIMEN. BOMBA CA 2	REFRIG.	ACTIVADO (1) RN
3:33:30.781	LMO-00--74RCA02---FL	FALLA ALIMEN. BOMBA CA 2	REFRIG.	ACTIVADO (1) AL
3:33:30.800	LMO-00--74-RCA01--FL	FALLA ALIMEN. BOMBA CA 1	REFRIG.	ACTIVADO (1) AL
3:33:30.823	LMO-TH2-4274FARE--AL	FALLA ALIMEN. FILTRO AUT	OMATICO R	ACTIVADO (1) RN
3:33:30.987	LMO-00--74RCA02---FL	FALLA ALIMEN. BOMBA CA 2	REFRIG.	ACTIVADO (1) RN
3:33:31.037	LMO-00--04-74-BD--FL	FALLA ALIMEN. BOMBA DE D	RENAJE	ACTIVADO (1) RN
3:33:31.098	LMO-00--74-RCA01--FL	FALLA ALIMEN. BOMBA CA 1	REFRIG.	ACTIVADO (1) RN
3:33:31.221	LMO_00_IV_BAR66__V_	TENSION BARRA 66 KV		71.22 RN TENSION
3:33:31.221	LMO_00_IV_BARSAA__V_	TENSION BARRA SS/AA		410.38 RN TENSION
3:33:31.657	LMO-TH1-1574V110--ST	RELE DE VELOCIDAD INDEPE	NDIENTE 1	ACTIVADO (1) AL
3:33:31.721	LMO_00_IV_BAR66__V_	TENSION BARRA 66 KV		70.76 AL TENSION
3:33:31.721	LMO_00_IV_BARSAA__V_	TENSION BARRA SS/AA		422.64 AL TENSION
3:33:31.743	LMO_00__BDREN___ALM	LMO_00__BDREN ESTADO DE	ALARMA DE	5 RN Falla A

3:33:31.855	LMO-TH1-1586V135--ST	RELE DE VELOCIDAD INDEPE	NDIENTE 1	ACTIVADO (1) AL
3:33:32.467	LMO-TH1-6533DEF---CE	DEFLECTOR CERRADO		ACTIVADO (1) EVT
3:33:32.471	LMO_00_IV_BAR66__V_	TENSION BARRA 66 KV		72.05 RN TENSION
3:33:32.715	LMO-TH1-74FALVCA--FL	FL: PERDIDA ALIMENTACION	CA RTVX	ACTIVADO (1) AL
3:33:32.721	LMO_00_IV_BARSAA__V_	TENSION BARRA SS/AA		408.48 RN TENSION
3:33:33.296	LMO-TH1-6533DEF---CE	DEFLECTOR CERRADO		ACTIVADO EVT
3:33:33.715	LMO-TH1-44-USERV--ST	UNIDAD EN SERVICIO UG1		OFF (0) EVT
3:33:33.715	LMO-TH1-VETMAR95--ST	VELOCIDAD Y TENSION MAYO	R A 95%	DESACTIVADO (0) EVT
3:33:33.715	LMO-TH1-PALT4MW---P-	POTENCIA ACTIVA MENOR A	4 MW	ACTIVADO (1) EVT
3:33:33.715	LMO-TH1-PALTGT2---P-	POTENCIA ACTIVA ENTRE -2	Y 2 MW	ACTIVADO (1) EVT
3:33:33.715	LMO-TH1-IVENTNOR--OK	TENSION ENTRANTE OK		DESACTIVADO (0) EVT
3:33:33.715	LMO-TH1-IVBAR-----V-	TENSION BARRA 13.8 KV OK		DESACTIVADO (0) EVT
3:33:34.502	LMO-TH1-44-USERV--ST	UNIDAD EN SERVICIO UG1		DESACTIVAD EVT
3:33:34.502	LMO-TH1-IVENTNOR--OK	TENSION ENTRANTE OK		DESACTIVAD EVT
3:33:34.502	LMO-TH1-VETMAR95--ST	VELOCIDAD Y TENSION MAYO	R A 95%	DESACTIVAD EVT
3:33:34.502	LMO-TH1-IVBAR-----V-	TENSION BARRA 13.8 KV OK		DESACTIVAD EVT
3:33:34.502	LMO-TH1-PALT4MW---P-	POTENCIA ACTIVA MENOR A	4 MW	ACTIVADO EVT
3:33:34.502	LMO-TH1-PALTGT2---P-	POTENCIA ACTIVA ENTRE -2	Y 2 MW	ACTIVADO EVT
3:33:35.046	LMO-00--42-74-BX2-FL	AUSENCIA TENSION BARRA C	A SS/AA A	ACTIVADO (1) AL
3:33:35.715	LMO-TH1-44-USERV--ST	UNIDAD EN SERVICIO UG1		ON (1) EVT
3:33:35.715	LMO-TH1-VETMAR95--ST	VELOCIDAD Y TENSION MAYO	R A 95%	ACTIVADO (1) EVT
3:33:35.715	LMO-TH1-IVENTNOR--OK	TENSION ENTRANTE OK		ACTIVADO (1) EVT
3:33:35.715	LMO-TH1-IVBAR-----V-	TENSION BARRA 13.8 KV OK		ACTIVADO (1) EVT
3:33:35.831	LMO-TH1-81PROTOP--FL	PROTECCION 81 BAJA O SOB	REFRECUEN	ACTIVADO (1) AL
3:33:35.866	LMO-TH1-6533DEF---CE	DEFLECTOR CERRADO		DESACTIVADO (0)



				EVT
3:33:36.015	LMO-TH2-74FALVCA--FL	FL: PERDIDA ALIMENTACION	CA RTVX	ACTIVADO (1) AL
3:33:36.498	LMO-TH1-44-USERV--ST	UNIDAD EN SERVICIO UG1		ACTIVADO EVT
3:33:36.498	LMO-TH1-IVENTNOR--OK	TENSION ENTRANTE OK		ACTIVADO EVT
3:33:36.498	LMO-TH1-VETMAR95--ST	VELOCIDAD Y TENSION MAYO	R A 95%	ACTIVADO EVT
3:33:36.498	LMO-TH1-IVBAR-----V-	TENSION BARRA 13.8 KV OK		ACTIVADO EVT
3:33:36.714	LMO_TH1_VICA01__ALM	ESTADO DE ALARMA VALVULA	INTERMIT	Apertura Nivel CEN
3:33:37.101	LMO-TH1-6533DEF---CE	DEFLECTOR CERRADO		ACTIVADO (1) EVT
3:33:37.509	LMO-TH1-6533DEF---CE	DEFLECTOR CERRADO		DESACTIVAD EVT
3:33:38.063	LMO-TH1-2033VCA1--ON	VLV. INTERMITENCIA BOMBA	CA 1 ENE	ACTIVADO (1) EVT
3:33:38.063	LMO-TH1-2033VCA1--ON	VLV. INTERMITENCIA BOMBA	CA 1 ENE	DESACTIVADO (0) EVT
3:33:38.064	LMO-TH1-2033VCA1--ON	VLV. INTERMITENCIA BOMBA	CA 1 ENE	ACTIVADO (1) EVT
3:33:38.064	LMO-TH1-2033VCA1--ON	VLV. INTERMITENCIA BOMBA	CA 1 ENE	DESACTIVADO (0) EVT
3:33:38.509	LMO-TH1-6533DEF---CE	DEFLECTOR CERRADO		ACTIVADO EVT
3:33:39.271	LMO-TH1-6533DEF---CE	DEFLECTOR CERRADO		DESACTIVADO (0) EVT
<b>3:33:39.308</b>	<b>LMO-TH1-1286SVEL--ST</b>	<b>SOBREVELOCIDAD MECANICO</b>	<b>ACTUADO</b>	<b>ACTIVADO (1) AL</b>
<b>3:33:39.308</b>	<b>LMO-TH1-86MOPER---AL</b>	<b>RELE DE BLOQUEO 86M OPER</b>	<b>ADO</b>	<b>ACTIVADO (1) AL</b>
<b>3:33:39.308</b>	<b>LMO-TH1-86NTMOPE--AL</b>	<b>RELE 86M OPERADO NT</b>		<b>ON (1) EVT</b>
<b>3:33:39.309</b>	<b>LMO-TH1-1286SVEL--ST</b>	<b>SOBREVELOCIDAD MECANICO</b>	<b>ACTUADO</b>	<b>ACTIVADO (1) RN</b>
<b>3:33:39.309</b>	<b>LMO-TH1-1286SVEL--ST</b>	<b>SOBREVELOCIDAD MECANICO</b>	<b>ACTUADO</b>	<b>ACTIVADO (1) AL</b>
3:33:39.500	LMO-TH1-2033VCA1--ON	VLV. INTERMITENCIA BOMBA	CA 1 ENE	ACTIVADO EVT
3:33:39.540	LMO-TH1-0363VADF--ST	PRESION NORMAL VLV. DEFL	ECTOR ABI	DESACTIVADO (0) EVT
3:33:39.624	LMO-TH1-0363VAIN--ST	PRESION NORMAL VLV. INYE	CTOR ABIE	DESACTIVADO (0) EVT
3:33:40.149	LMO-TH1-6533DEF---CE	DEFLECTOR CERRADO		ACTIVADO (1) EVT
3:33:40.288	LMO-TH1-0363VADF--ST	PRESION NORMAL VLV. DEFL	ECTOR ABI	DESACTIVAD EVT
3:33:40.288	LMO-TH1-0363VAIN--ST	PRESION NORMAL VLV. INYE	CTOR ABIE	DESACTIVAD EVT

3:33:40.288	LMO-TH1-6533DEF---CE	DEFLECTOR CERRADO		DESACTIVAD EVT
3:33:40.714	LMO-TH1-1086MSEC--ST	UNIDAD EN SECUENCIA DE D	ETENCION	ACTIVADO (1)
3:33:40.714	LMO-TH1-R86NOOP---KO	RELES 86 NO OPERADOS		DESACTIVADO (0) EVT
3:33:40.714	LMO-TH1-VALVAP----CE	VALVULAS ARRANQUE PARO C	ERRADAS	ACTIVADO (1) EVT
3:33:41.512	LMO-TH1-6533DEF---CE	DEFLECTOR CERRADO		ACTIVADO EVT
3:33:41.512	LMO-TH1-R86NOOP---KO	RELES 86 NO OPERADOS		DESACTIVAD EVT
3:33:41.512	LMO-TH1-VALVAP----CE	VALVULAS ARRANQUE PARO C	ERRADAS	ACTIVADO EVT
3:33:41.714	LMO-TH1-10VSFSEC--ST	VALVULA ESFERICA EN SECU	ENCIA CIE	ACTIVADO (1) EVT
3:33:42.102	LMO-TH1-52G-----CE	INTERRUPTOR DEL GENERADO	R 52G CER	OFF (0) EVT
3:33:42.109	LMO-TH1-52G-----AB	INTERRUPTOR DEL GENERADO	R 52G ABI	ON (1) EVT
3:33:42.119	LMO-TH1-52GoCRCE--CE	UNIDAD EN SERVICIO VIA 5	2G o 52CR	DESACTIVADO (0) EVT
3:33:42.132	LMO-TH1-4274BXCA--AL	AUSENCIA TENSION BARRA C	A SS/AA U	ACTIVADO (1) AL
3:33:42.133	LMO-TH1-4274BXCA--AL	AUSENCIA TENSION BARRA C	A SS/AA U	ACTIVADO (1) RN
3:33:42.134	LMO-TH1-4274BXCA--AL	AUSENCIA TENSION BARRA C	A SS/AA U	ACTIVADO (1) AL
3:33:42.135	LMO-00--42-74-XS2-FL	AUSENCIA TENSION SECUNDA	RIO TRAFO	ACTIVADO (1) AL
3:33:42.136	LMO-00--42-74-XS2-FL	AUSENCIA TENSION SECUNDA	RIO TRAFO	ACTIVADO (1) RN
3:33:42.136	LMO-00--42-74-XS2-FL	AUSENCIA TENSION SECUNDA	RIO TRAFO	ACTIVADO (1) AL
3:33:42.136	LMO-00--42-74-XS1-FL	AUSENCIA TENSION SECUNDA	RIO TRAFO	ACTIVADO (1) AL
3:33:42.136	LMO-00--42-74-BX1-FL	AUSENCIA TENSION BARRA C	A SS/AA A	ACTIVADO (1) AL
3:33:42.136	LMO-TH2-4274BXCA--AL	AUSENCIA TENSION BARRA C	A SS/AA U	ACTIVADO (1) AL
3:33:42.138	LMO-00--42-74-BP--FL	AUSENCIA TENSION BARRA P	RINC. DIS	ACTIVADO (1) AL
3:33:42.220	LMO-TH1-0474HCA1--FL	FALLA ALIMEN. BOMBA CA 1	HPU	ACTIVADO (1) AL
3:33:42.222	LMO-TH2-4274FARE--AL	FALLA ALIMEN. FILTRO AUT	OMATICO R	ACTIVADO (1) AL
3:33:42.224	LMO-TH2-0474HCA2--FL	FALLA ALIMEN. BOMBA CA 2	HPU	ACTIVADO (1) AL
3:33:42.224	LMO-TH2-0474HCA2--FL	FALLA ALIMEN.	HPU	ACTIVADO (1) RN

		BOMBA CA 2		
3:33:42.224	LMO-TH1-0474HCA2--FL	FALLA ALIMEN. BOMBA CA 2	HPU	ACTIVADO (1) AL
3:33:42.224	LMO-00--74-RCA01--FL	FALLA ALIMEN. BOMBA CA 1	REFRIG.	ACTIVADO (1) AL
3:33:42.225	LMO-TH2-0474HCA2--FL	FALLA ALIMEN. BOMBA CA 2	HPU	ACTIVADO (1) AL
3:33:42.225	LMO-TH2-0474HCA2--FL	FALLA ALIMEN. BOMBA CA 2	HPU	ACTIVADO (1) RN
3:33:42.225	LMO-00--74RCA02---FL	FALLA ALIMEN. BOMBA CA 2	REFRIG.	ACTIVADO (1) AL
3:33:42.226	LMO-TH2-0474HCA1--FL	FALLA ALIMEN. BOMBA CA 1	HPU	ACTIVADO (1) AL
3:33:42.226	LMO-TH2-0474HCA2--FL	FALLA ALIMEN. BOMBA CA 2	HPU	ACTIVADO (1) AL
3:33:42.226	LMO-TH2-0474HCA1--FL	FALLA ALIMEN. BOMBA CA 1	HPU	ACTIVADO (1) RN
3:33:42.228	LMO-00--74RCA02---FL	FALLA ALIMEN. BOMBA CA 2	REFRIG.	ACTIVADO (1) RN
3:33:42.229	LMO-00--74RCA02---FL	FALLA ALIMEN. BOMBA CA 2	REFRIG.	ACTIVADO (1) AL
3:33:42.255	LMO-00--04-74-BD--FL	FALLA ALIMEN. BOMBA DE D	RENAJE	ACTIVADO (1) AL
3:33:42.255	LMO-00--04-74-BD--FL	FALLA ALIMEN. BOMBA DE D	RENAJE	ACTIVADO (1) RN
3:33:42.256	LMO-00--04-74-BD--FL	FALLA ALIMEN. BOMBA DE D	RENAJE	ACTIVADO (1) RN
3:33:42.256	LMO-00--04-74-BD--FL	FALLA ALIMEN. BOMBA DE D	RENAJE	ACTIVADO (1) AL
3:33:42.368	LMO-TH1-81PROTOP--FL	PROTECCION 81 BAJA O SOB	REFRECUEN	ACTIVADO (1) RN
3:33:42.511	LMO-TH1-10VSFSEC--ST	VALVULA ESFERICA EN SECU	ENCIA CIE	ACTIVADO EVT
3:33:42.714	LMO_TH1_HCA01___ALM	LMO_TH1_HCA01 ESTADO DE	ALARMA DE	2 AL Falla A
3:33:42.714	LMO_TH1_HCA02___ALM	LMO_TH1_HCA02 ESTADO DE	ALARMA DE	2 AL Falla A
3:33:42.714	LMO-TH1-90RTVXPA--MN	REGULADOR EN PARTIDA		DESACTIVADO (0) EVT
3:33:42.742	LMO_00__BDREN___ALM	LMO_00__BDREN ESTADO DE	ALARMA DE	3 AL Falla A
3:33:42.742	LMO_00__RCA01___ALM	LMO_00__RCA01 ESTADO DE	ALARMA DE	2 AL Falla A
3:33:42.742	LMO_00__RCA02___ALM	LMO_00__RCA02 ESTADO DE	ALARMA DE	2 AL Falla A
3:33:43.015	LMO_TH2_HCA01___ALM	LMO_TH2_HCA01 ESTADO DE	ALARMA DE	2 AL Falla A

3:33:43.015	LMO_TH2_HCA02___ALM	LMO_TH2_HCA02 ESTADO DE	ALARMA DE	2 AL Falla A
3:33:43.422	LMO-TH1-2033VESF--AB	VALVULA ESFERICA ABIERTA		DESACTIVADO (0) EVT
3:33:43.471	LMO_00_INAGDESR___NI	NIVEL AGUA DESCARGA AL R	IO	25.37 AL NIVEL A
3:33:43.471	LMO_00_IV_BAR66__V_	TENSION BARRA 66 KV		67.53 AL TENSION
3:33:43.471	LMO_00_IV_BARSAS__V_	TENSION BARRA SS/AA		400.92 AL TENSION
3:33:43.502	LMO-TH1-52G-----AB	INTERRUPTOR DEL GENERADO	R 52G ABI	ACTIVADO EVT
3:33:43.502	LMO-TH1-52G-----CE	INTERRUPTOR DEL GENERADO	R 52G CER	DESACTIVAD EVT
3:33:43.502	LMO-TH1-52GoCRCE--CE	UNIDAD EN SERVICIO VIA 5	2G o 52CR	DESACTIVAD EVT
3:33:43.502	LMO-TH1-90RTVXPA--MN	REGULADOR EN PARTIDA		DESACTIVAD EVT
3:33:43.713	LMO-TH1-44-USERV--ST	UNIDAD EN SERVICIO UG1		OFF (0) EVT
3:33:43.713	LMO-TH1-74FHCA01--AL	ALARMA FALLA EN BOMBA CA	1 HPU	ACTIVADO (1) AL
3:33:43.713	LMO-TH1-74FHCA02--AL	ALARMA FALLA EN BOMBA CA	2 HPU	ACTIVADO (1) AL
3:33:43.713	LMO-TH1-10FRENAP--ST	APLICANDO SISTEMA DE FRE	NADO UNID	ACTIVADO (1) EVT
3:33:43.713	LMO-TH1-90RTVXDT--ST	REGULADOR EN DETENCION		ACTIVADO (1) EVT
3:33:43.722	LMO_00_IV_BAR66__V_	TENSION BARRA 66 KV		4.64 RN TENSION
3:33:43.742	LMO-00--7488CA12--FL	FALLA EN AMBAS BOMBAS CA	REFRIGER	ACTIVADO (1) AL
3:33:44.014	LMO-TH2-74FHCA01--AL	ALARMA FALLA EN BOMBA CA	1 HPU	ACTIVADO (1) AL
3:33:44.014	LMO-TH2-74FHCA02--AL	ALARMA FALLA EN BOMBA CA	2 HPU	ACTIVADO (1) AL
3:33:44.014	LMO-TH274AC8PMRA--FL	FALLA ALIMENT. A PROC. A	C800M PMP	ACTIVADO (1)
3:33:44.090	LMO-00--8806RCA1--MM	BOMBA CA 1 DE REFRIGERAC	ION EN MA	DESACTIVADO (0) EVT
3:33:44.163	LMO-TH1-8806HCA1--MN	BOMBA CA 1 HPU EN MARCHA		DESACTIVADO (0) EVT
3:33:44.221	LMO_00_IV_BAR66__V_	TENSION BARRA 66 KV		4.64 AL TENSION
3:33:44.499	LMO-TH1-10FRENAP--ST	APLICANDO SISTEMA DE FRE	NADO UNID	ACTIVADO EVT
3:33:44.499	LMO-TH1-2033VESF--AB	VALVULA ESFERICA ABIERTA		DESACTIVAD EVT