

Estudio para análisis de falla EAF 231/2021

"Desconexión forzada de barra 13,2 kV de S/E Chocalán"

Fecha de Emisión: 10-09-2020

1. Descripción pormenorizada de la perturbación

a. Fecha y Hora de la falla

Fecha	21/08/2021
Hora	11:31
Consumos desconectados (MW)	3.53
Demanda previa del sistema (MW)	9205
Porcentaje de desconexión	0.04 %
Calificación Apagón	No aplica (porcentaje de desconexión < 10%)

b. Identificación instalación afectada

Nombre de la instalación	Barra 13,2 kV de S/E Chocalán/BA01T005SE169T005
Tipo de instalación	Barra
Tensión nominal	13,2 kV
Segmento	Transmisión zonal
Propietario instalación afectada	Compañía General de Electricidad S.A.
RUT	76.411.321-7
Representante Legal	Iván Arístides Quezada Escobar
Dirección	Av. Presidente Riesco N° 5561, piso 17, Las Condes.

c. Identificación del elemento fallado

Nombre del elemento fallado	Sistema de protecciones paño CT1 S/E Chocalán / SP002T005SE169T005
Propietario elemento fallado	Compañía General de Electricidad S.A.
RUT	76.411.321 -7
Representante Legal	Iván Arístides Quezada Escobar
Dirección	Av. Presidente Riesco 5561, piso 14, Las Condes, Santiago

d.1 Origen y causa de la falla

El origen de la desconexión forzada de la barra 13,2 kV de S/E Chocalán se debió a la emisión de la orden de disparo anticipado de la protección asociada al paño CT1, durante una falla ocurrida en el alimentador de 13,2 kV Puente Marambio, despejada correctamente por la protección de cabecera del paño C1.

La empresa CGE S.A. no informa el origen de la falla en el alimentador de 13,2 kV Puente Marambio.

d.2 Fenómeno Físico:

OPE26 Falla en sistema de protección o control.

d.3 Reiteración

Reiteración Fenómeno Físico en la instalación afectada: Esta instalación no ha sido afectada por el mismo fenómeno físico, durante los últimos 24 meses móviles.

Reiteración Fenómeno Físico en instalaciones del mismo propietario: No se han producido fallas en instalaciones del mismo propietario con un fenómeno físico similar (homologado), durante los últimos 24 meses móviles.

Cantidad de fallas (sin importar Fenómeno Físico) en la misma instalación: se ha producido una falla en la misma instalación afectada, durante los últimos 24 meses móviles. (EAF 183-2020).

d.4 Fenómeno eléctrico

PR51: Protección de sobrecorriente temporizada de fase.

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

El elemento donde se originó la desconexión forzada corresponde a la barra 13,2 kV de S/E Chocalán, el cual tiene capacidad nominal de 5 [kA], conductor Cu 2/0 AWG y cuya fecha de puesta en servicio fue en el año 1998, de acuerdo con la información disponible en la plataforma Infotécnica del Coordinador Eléctrico Nacional.

El elemento que registró un comportamiento anómalo en el despeje de la falla es el esquema de protecciones del paño CT1 de la S/E Chocalán, asociado al interruptor general de barras de 13,2 kV, frente a una falla ocurrida en las redes de distribución del alimentador Puente Marambio.

La empresa CGE S.A. no adjunta información de los mantenimientos realizados a los equipos de protección asociados al paño CT1 de la S/E Chocalán, durante los últimos 24 meses.

f. Ubicación urbana o rural según DS 327/1997

Urbana.

g. Proposición del propietario respecto del origen de la falla

Fuerza mayor o caso fortuito.

h. Comuna donde se presenta la falla

13501: Melipilla

i. Fecha de entrega de la información al Coordinador

Coordinado	Informe de 48 horas (23/08/2021)	Informe de 5 días (27/08/2021)
CGE	21/08/2021	06/09/2021

2. Descripción del equipamiento afectado

a. Sistema de Generación

Central	Unidad	Pérdida de Generación (MW)	H. Desconexión	H. Normalización
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b. Sistema de Transmisión

Elemento Afectado	Segmento	Tramo	Hora Desc.	Hora Norm.
S/E Chocalán	ST Zonal	Barra 13,2 kV de S/E Chocalán	11:31	11:34

- Fechas y horas señaladas corresponden a lo informado por CGE 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 Chocalán	Puente Marambio/ 52C1	Melipilla	1,26	0,014	1360	11:31	11:34	12:55
S/E Chocalán	Pabellón/52C2	Melipilla	2,27	0,025	2189	11:31	11:34	11:34
Total:			3,53 MW	0.04 %	3549			

- Fechas, horas y montos señalados corresponden a lo informado por CGE 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 Chocalán	Puente Marambio/ 52C1	CGE Distribución	Regulado	1,26	0,05	1,40	1,76
S/E Chocalán	Pabellón/52C2	CGE Distribución	Regulado	2,27	0,05	0,05	0,11

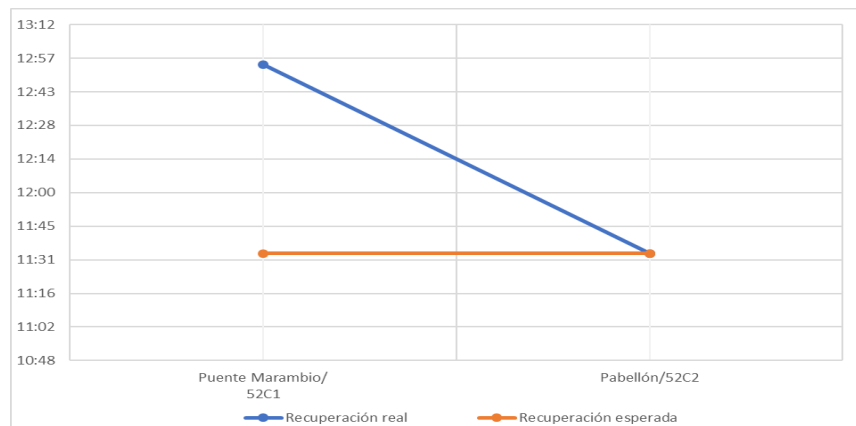
Clientes Regulados : 1.88 MWh

Clientes Libres : 0.0 MWh

Total : 1.88 MWh

- Fechas, horas y montos señalados corresponden a lo informado por CGE S.A.

- Curva de recuperación esperada v/s recuperación real.



Para el alimentador Puente Marambio, se aprecia diferencia entre el horario de recuperación real respecto al horario de disponibilidad de las barra N°1 de 13,2 kV de S/E Chocalán, esto debido a las labores de revisión del alimentador fallado.

- Velocidad promedio de recuperación.

Rango	Potencia (MW)	Tiempo recuperación (h)	Velocidad de recuperación (MW/h)
Primer 80 %	2,82	0,05	56,48
Último 20 %	0,71	0,05	14,12
100 % Total	3,53	0,05	70,60

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

Demanda del sistema previo a la falla: 9205 MW

Regulación de Frecuencia

Control distribuido de frecuencia en el SEN previo a la falla, mediante las centrales: Angamos (ANG1), Angamos (ANG2), Angostura (U2), Atacama 1 (TG1B), Atacama 2 (TG2B), Canutillar (U1), Cochran (CCH1), Guacolda (U3), Guacolda (U4), Hornitos (CTH), Kelar (TG1), Mejillones (CTM1), Norgener (NTO1), Norgener (NTO2), Tocopilla (U14), Tocopilla (U15) y Tocopilla (U16).

Estado y configuración previo a la falla

Las instalaciones de transmisión se encontraban en servicio normal en los momentos previos a la desconexión forzada.

Otros antecedentes relevantes

Según lo informado por CGE S.A.:

"En base a los registros de eventos y reportes de falla de los relés involucrados, se concluye lo siguiente:

1. Existe correcta operación por medio de función de sobrecorriente del reconectador de paño C1 de S/E Chocalán.
2. Respecto a la operación del reconectador de paño CT1, General de MT de S/E Chocalán, se concluye la operación adelantada de esta protección, dado que no cumple con el tiempo de operación teórico para el nivel de corriente de falla registrada en cercanías de barra MT de la subestación.

Corriente de Falla registrada = 3195 [A]

Tiempo Teórico: 634[ms]

Tiempo Real: 134 [ms]

En las condiciones de falla expuestas, la operación apresurada del CT1 tuvo como consecuencia que no existiera el tiempo de paso suficiente para la coordinación entre el paño C1 y CT1.

3. En base a los antecedentes y análisis realizados se concluye que el interruptor 52CT1, conformado por un interruptor NOVA con control Form-6 tuvo un comportamiento acelerado en su tiempo de respuesta y apertura una falla del orden de los 3,2 kA.

.../...

Siendo las 11:31 hrs. del día 21.08.2021, se produce la desconexión forzada de Interruptor 52CT1 y la Reconexión Automática de Interruptor 52C1 (Alimentador Puente Marambio) de SE Chocalán, a consecuencia de falla en redes MT de distribución.

Inmediatamente, el Centro de control de CGE identifica a través del SCADA que ambos interruptores, 52CT1 y 52C1, habían registrado una operación simultánea, lo que dio paso a ejecutar el Procedimiento de Recuperación de Barra MT, realizando la apertura de ambos alimentadores de SE Chocalán a las 11:32 hrs, y recuperando la Barra MT y los consumos de Alimentador Pabellón a las 11:34 hrs.

Posteriormente, personal de área de Distribución de CGE indica la existencia de la falla en instalaciones del Alimentador Puente Marambio, inmediatamente afuera de SE Chocalán.

Finalmente, a la 12:55Hrs, luego de reparar falla en Red de Mt, se procede a realizar el cierre de alimentador Puente Marambio a las 12:55 hrs.”

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

CGE S.A.:

- Origen de la falla en instalaciones de distribución asociadas al alimentador de 13,2 kV Puente Marambio.
- Detalles y antecedentes fotográficos de los trabajos de reparación en el alimentador de 13,2 kV Puente Marambio, que demoraron la recuperación del 100% de los consumos.
- Cronograma de trabajo para la realización de la acción correctiva de corto plazo comprometida en su informe de falla de 5 días: *"Se realizará la verificación de curva característica de tiempo/corriente de operación de 52CT1 de SE Chocalán."*
- Mantenimientos o pruebas durante los últimos 24 meses realizadas a los equipos de protección asociados al paño CT1 de S/E Chocalán, que adelantó su orden de disparo, originando la desconexión forzada de la barra de 13,2 kV de esta S/E frente a una falla en redes de distribución.
- Aclaración de la proposición del origen de la falla indicada en su informe, ya que según lo indicado en la Resolución Exenta N°30989-2019, el fenómeno físico de la causa declarada debiese de corresponder a una proposición del tipo "Interna".

De forma complementaria, se adjuntan los informes de fallas de instalaciones ingresados en el sistema del Coordinador Eléctrico Nacional por CGE S.A. (Anexo N°1) y otros antecedentes aportados por CGE S.A. (Anexo N°2).

Acciones preventivas y/o correctivas

a) La instalación afectada no cuenta con un plan de acción u otro tipo de mantenimiento en curso. No obstante, esta instalación se encuentra dentro del alcance de la auditoría instruida por la Superintendencia de Electricidad y Combustibles mediante Oficio Ord. N°18904/ ACC N°2342736/ DOC 2026130, de fecha 29 de agosto de 2019, para el caso de fallas ocurridas en instalaciones de distribución que puedan afectar a SS/EE primarias de CGE S.A.

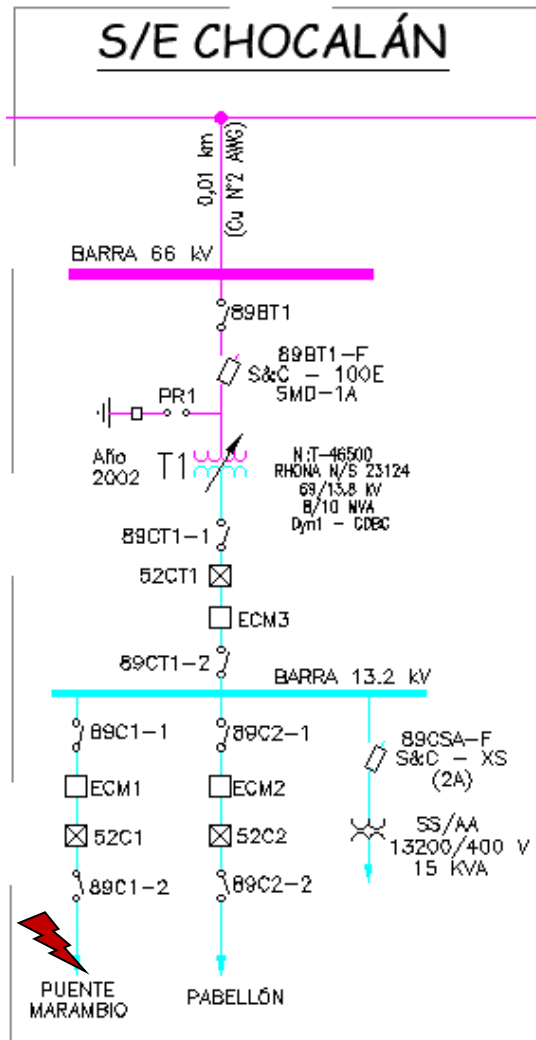
b) Acciones correctivas a corto plazo:

La empresa CGE S.A. indica: *"Se realizará la verificación de curva característica de tiempo/corriente de operación de 52CT1 de SE Chocalán."*

c) Acciones correctivas a largo plazo:

La empresa CGE S.A. señala que "No hay".

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
11:31	CGE S.A.	Apertura automática del interruptor 52CT1 de S/E Chocalán, asociado al transformador 66/13,8 kV N°1 de S/E Chocalán, por operación adelantada de su protección temporizada de sobrecorriente de fase, durante una falla en el alimentador de 13,2 kV Puente Marambio, despejada correctamente por las protecciones de su interruptor de cabecera.
11:31	CGE S.A.	Apertura automática del interruptor 52C1 de S/E Chocalán, asociado al alimentador de 13,2 kV Puente Marambio, por operación de su protección temporizada de sobrecorriente de fase.
11:31+	CGE S.A.	Reconexión automática del interruptor 52C1 Alimentador Puente Marambio.

- Horas y eventos señalados corresponden a lo informado por CGE S.A.

6. Normalización del servicio

Fecha	Involucrado	Hora	Acción
21/08/2021	CGE S.A.	11:32	Apertura manual del interruptor 52C1 de S/E Chocalán, asociado al alimentador de 13,2 kV Puente Marambio, despejado este alimentador.
21/08/2021	CGE S.A.	11:32	Apertura manual del interruptor 52C2 de S/E Chocalán, asociado al alimentador de 13,2 kV Pabellón, despejado este alimentador.
21/08/2021	CGE S.A.	11:34	Cierre manual del interruptor 52CT1 de S/E Chocalán, energizando la barra 13,2 kV de S/E Chocalán.
21/08/2021	CGE S.A.	11:34	Cierre manual del interruptor 52C2 de S/E Chocalán, en servicio el alimentador de 13,2 kV Pabellón, recuperando el 100% de sus consumos.
21/08/2021	CGE S.A.	12:55	Cierre manual del interruptor 52C1 de S/E Chocalán, en servicio el alimentador de 13,2 kV Puente Marambio, recuperando el 100% de sus consumos.

- Fechas, horas, maniobras y eventos señalados corresponden a lo informado por CGE S.A.

ANEXO N°1

Informes de trabajos y fallas de instalaciones ingresado en la plataforma del
Coordinador Eléctrico Nacional por la empresa CGE S.A.

Resumen - Subestación

Resumen

Número:

2021002308

Solicitante:

Jonatan Andres Molina Correa

Empresa:

COMPAÑÍA GENERAL DE ELECTRICIDAD S.A.

Tipo de Origen:

Externo

SubEstación:

S/E CHOCALAN

Falla Sobre:

pañó

Elementos

Tipo: panos - S/E CHOCALAN CT1

Nombre : S/E CHOCALAN CT1

Fecha Perturbacion : 21-08-2021 11:31

Fecha Normaliza : 21-08-2021 11:34

Protección : 50/51

Interruptor : 52CT1

Consumo : 2.8

Comentario : 11:34 hrs Se recuperaron el 64% de los consumos .

¿Produce otra indisponibilidad?

No

Zona Afectada

Metropolitana

Comuna

Melipilla

Tipo Causa

Causa Definitiva

Causa Principal

Se investiga

Comentarios Tipo Causa:

Se investiga.

Causas

-Fenómeno Físico: Origen no determinado.

-Elemento: Interruptores

-Fenómeno Eléctrico: Detector de sobre intensidad

-Operación de los interruptores: Opera según lo esperado

Comentarios Causas:

- Fenómeno Físico:** Se investiga.
- Elemento:** Se investiga.
- Fenómeno Eléctrico:** Se investiga.
- Operación de los interruptores:** Se investiga.

Observaciones:

- Observaciones:** Apertura por protecciones interruptor 52CT1 S/E Chocalán, general de barra MT, afectando los consumos propios de la subestación.
- Acciones Inmediatas:** Se revisa alarmas activas, sin alarmas presente en el transformador, coincidentemente reconexión automática exitosa del alimentador 52C1 Pte. Marambio. Se aplica recuperación de barra MT dejando abierto alimentador 52C1 Pte. Marambio.
- Hechos Sucuidos:** Se solicita a despacho distribución revisión del alimentador 52C1 Pte. Marambio.
- Acciones Correctivas a Corto Plazo:** .
- Acciones Correctivas a Largo Plazo:** .

Afecta SSCC:

No

Afecta Medidores:

No

Afecta Protecciones:

No

Consumo:

Consumo Regulado

Distribuidoras Afectadas

CGE DISTRIBUCIÓN S.A. / Perd. Estm. de Potencia: 2.8 / Región : Metropolitana / Clientes Afectados: 2064

Retorno Automatico:

No Tiene Retorno Automático

Fecha / Hora Perturbación de la Solicitud:

21-08-2021 11:31

Fecha / Hora Estimada Retorno:

21-08-2021 11:34

Fecha / Hora Efectiva Retorno:

21-08-2021 11:34

ANEXO N°2

Otros antecedentes enviados por la empresa CGE S.A.

INFORME (s) QUINTO DÍA N°: IF 2021002308	FECHA DE FALLA: 21 de agosto de 2021
INSTALACIÓN (ES): 52CT1 SE Chocalán	

1. CAUSA U ORIGEN DE LA FALLA:**1.1. Fecha y hora de la Falla:**

Fecha	21 de agosto 2021
Hora	11:31

1.2. Localización de la falla:**1.2.1. Nombre de instalación donde se produjo de falla****Causa Origen:**

Falla en Red de MT, específicamente de Alimentador Puente Marambio.

Causa de Propagación a Segmento de Transmisión.

- a) Paño CT1 - S/E CHOCALAN
- b) ID: 631

1.2.2. Segmento al cual pertenece el equipo o elemento fallado**Causa Origen:**

Distribución, instalación de distribución propiedad de CGE

Causa Propagación:

Transmisión Zonal.

1.2.3. Elemento o equipo fallado

Red de Distribución.

1.3. Causa origen de la falla:

Con ocasión de falla en alimentador Puente Marambio, en el exterior de SE Chocalán, se produce la operación simultánea paños CT1 y C1 de dicha subestación.

Propagación de Falla se produce debido a operación anticipada de Paño CT1 de SE Chocalan.

1.4. Proposición de origen de la falla

Caso Fortuito.

INFORME (s) QUINTO DÍA N°: IF 2021002308	FECHA DE FALLA: 21 de agosto de 2021
INSTALACIÓN (ES): 52CT1 SE Chocalán	

1.5. Código de falla.

Propagación de Falla.

Causas de Falla	Código	Descripción
Fenómeno Físico *	OPE26	Interrupción producida por falla en los sistemas de protección de la instalación.
Elemento del Sistema Eléctrico	PR12	Sistema de Protección
Fenómeno Eléctrico	PR51	Protección de sobrecorriente temporizada de fase
Modo	13	Opera según lo esperado

(*) El Código de falla indicado se refiere a la **Propagación de falla con origen en Red de MT.**

1.6. Comuna donde se originó la falla

Código	Comuna
13501	Melipilla

1.7. Comunas afectadas por la falla

Código	Comuna
13501	Melipilla

1.8. Reiteración

1.8.1. N° de Fallas en Instalación. (Últimos 24 meses móviles).

1 Falla (IF 2020001599)

1.8.2. N° de Fallas en Instalación con mismo Fenómeno Físico. (Últimos 24 meses móviles).

No existe Falla con el mismo fenómeno físico.

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
2020001599	03-06-2020	03:24	OPE6

INFORME (s) QUINTO DÍA N°: IF 2021002308	FECHA DE FALLA: 21 de agosto de 2021
INSTALACIÓN (ES): 52CT1 SE Chocalán	

1.9. Datos de la Empresa

Nombre Empresa: Compañía General de Electricidad S.A
RUT: 76.411.321-7
Representante Legal: Iván Arístides Quezada Escobar
Dirección: Av. Presidente Riesco N° 5561 P14, las Condes, Santiago, Chile.

2. INSTALACIONES AFECTADAS.

Instalación Primaria Afectada			Horarios	
Subestación	Transformador AT/MT	Barra MT	Hora Desconexión	Hora Normalización
Chocalán	Barra 13,2 kV	11:31	11:31	11:34

INFORME (s) QUINTO DÍA N°: IF 2021002308	FECHA DE FALLA: 21 de agosto de 2021
INSTALACIÓN (ES): 52CT1 SE Chocalán	

3. DIAGRAMAS SIMPLIFICADOS.

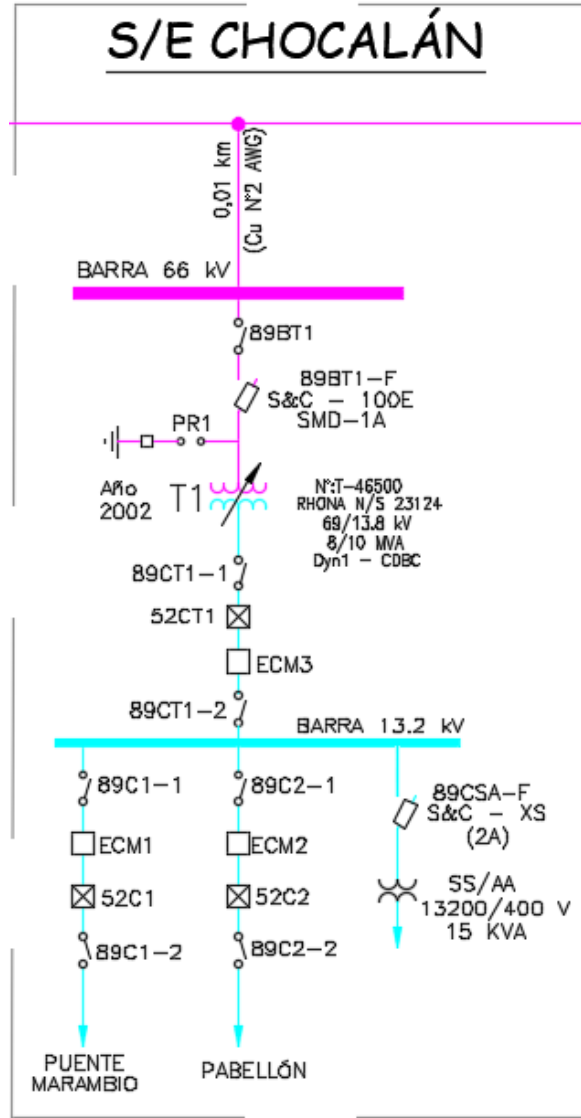


Diagrama Unilineal Simplificado de Zona Afectada, SE Chocalán.

4. PERDIDAS DE GENERACIÓN.

No hay generación de propiedad de CGE S.A., involucrada en la falla.

INFORME DE FALLA
REQUERIMIENTO NORMA TÉCNICA DE SyCS

INFORME (s) QUINTO DÍA N°: IF 2021002308	FECHA DE FALLA: 21 de agosto de 2021
INSTALACIÓN (ES): 52CT1 SE Chocalán	

5. POTENCIA INTERRUMPIDA DE CLIENTES FINALES.

Subestación	Transformador	Alimentador		MW	Horario		Bloque	Clientes Afectados	kVa afectados (potencia instalada Dx)	Distribuidora	Comunas	Urbano / Rural	Observación
	(Primario)	Nombre	Nema		Desconexión	Normalización							
Chocalán	T1	Puente Marambio	C1	1,26	11:31	12:55	1	1.360	3.767	CGE	Melipilla	Rural	Se recupera el 100% de los consumos
	T1	Pabellón	C2	2,27	11:31	11:34	1	2.189	12.262	CGE	Melipilla	Rural	Se recupera el 100% de los consumos
Total				3,53				3.549	16.029				

Tabla desconexión y normalización de consumos

ENS: **1,88 MWH**
N° de clientes afectados CGE: **3.549 clientes**

INFORME DE FALLA
REQUERIMIENTO NORMA TÉCNICA DE SyCS

INFORME (s) QUINTO DÍA N°: IF 2021002308	FECHA DE FALLA: 21 de agosto de 2021
INSTALACIÓN (ES): 52CT1 SE Chocalán	

Se adjunta tabla con los PMGD conectados en redes de MT en los circuitos afectados.

PMGD conectados en redes de MT para instalaciones afectadas.				
Subestación	Transformador (Primario)	Alimentador		Denominación de PMGD
		Nombre	Nema	
Chocalán	T1	Pabellón	52 C2	PMGD Nahuén 3MW

PMGD conectados a redes MT CGE

INFORME (s) QUINTO DÍA N°: IF 2021002308	FECHA DE FALLA: 21 de agosto de 2021
INSTALACIÓN (ES): 52CT1 SE Chocalán	

6. CRONOLOGÍA DE EVENTOS Y DESCRIPCIÓN DE CAUSAS.

SUBESTACIÓN	EVENTO	HORARIO
Chocalán	Apertura por protecciones del interruptor 52CT1	11:31
Chocalán	Apertura por Protecciones de Interruptor 52C1 Alimentador Puente Marambio	11:31
Chocalán	Reconexión automática de Interruptor 52C1 Alimentador Puente Marambio	11:31
	<i>Se verifica falla en Alim. Puente Marambio y se aplica procedimiento de recuperación de barra</i>	
Chocalán	Apertura Manual Interruptor 52C1 Alimentador Puente Marambio.	11:32
Chocalán	Apertura Manual Interruptor 52C2 Alimentador Pabellón.	11:32
Chocalán	Cierre manual interruptor 52CT1, energizada barra MT.	11:34
Chocalán	Cierre manual interruptor 52C2 Alimentador Pabellón.	11:34
Chocalán	Cierre manual interruptor 52C1 Alimentador Puente Marambio	12:55

INFORME (s) QUINTO DÍA N°: IF 2021002308	FECHA DE FALLA: 21 de agosto de 2021
INSTALACIÓN (ES): 52CT1 SE Chocalán	

7. ESQUEMAS DE PROTECCIÓN Y CONTROL INVOLUCRADOS EN LA FALLA.

A continuación, se presenta el análisis de esquemas de protección involucrados en despeje de falla.

7.1. Resumen de Operación de esquema de protección:

Hora Relé	S/E	Instalación (Paño)	Protección Operada	Tiempo [s].	Observaciones
15:31:28.717	Chocalán	CT1	51	0,183	ABCG
15:31:28.718	Chocalán	C1	51	0,180	ABCG

7.2. Ajustes de Protección en Formato Resumido.

7.2.1 Ajustes actuales paño CT1 de S/E Chocalán.

Protección de sobrecorriente de fases y residual 51/51N.

Relé: Cooper Form 6

	Protección de Fase	Protección Residual
Pick up	520 A.	80 A.
TT/CC	1000/1	1000/1
Curva	Kyle 202	Kyle 200
Lever	0,29	1
Instantáneo	no	no

7.2.2 Ajustes actuales paño C1 de S/E Chocalán.

Protección de sobrecorriente de fases y residual 51/51N.

Relé: SEL 351R

	Protección de Fase	Protección Residual	Protección SEF
Pick up	450 A.	60 A.	15 A
TT/CC	1000/1	1000/1	1000/1
Curva	Kyle 133	Kyle 140	Tiempo definido
Lever	0,6	1,0	90 seg.
Instantáneo	No	No	--

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INSTALACIÓN (ES): 52CT1 SE Chocalán	

7.3. Análisis Actuación de Esquema de Protecciones.

7.3.1. SE Chocalán C1

Cabecera de cto. 52C1

Relé SEL 351-R.

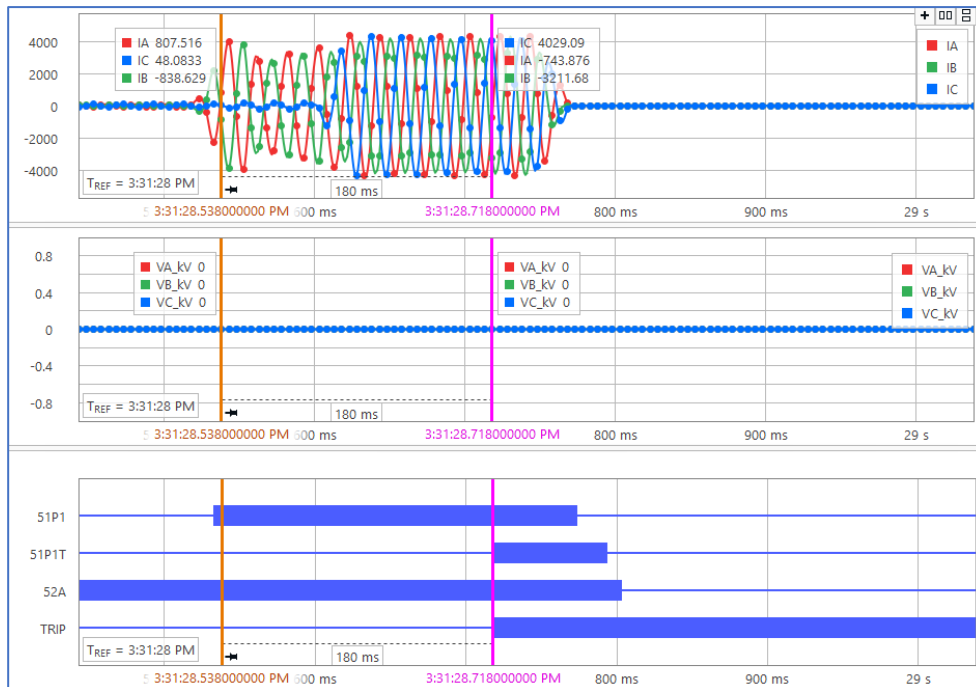
- **Reporte de Evento.**

ALIM. PUENTE MARAMBIO - SEL351R 52C1 S/E
CHOCALAN
Time: 8/21/2021 3:31:28.538000 PM
File: CEV_S4_L30_4.CEV
FID=SEL-351R-4-R503-V0-Z002001-D20140207
Event: ABCG T
Frequency: 50 Hz Sample Rate: 4 Samples/Cycle
Targets: 11001100 01011100
Shot: 0
Currents: IA:3195 IB:2708 IC:3130 IN:817 IG:818 3I2:490

Reporte de evento Relé SEL 351R de Paño C1 SE Chocalán

Nota: Relé sincronizado por GPS en horario UTC.

- **Registro oscilográfico de evento**



Registro oscilográfico Relé SEL 351R de Paño C1 de SE Chocalán

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En la oscilografía se observa la correcta operación de la protección SEL351R, por medio de su función de sobrecorriente (51P1T), frente a falla Trifásica, dando orden de disparo (TRIP) sobre el interruptor 52C1.

- **Registro Secuencial de Evento.**

#	DATE	TIME	ELEMENT	STATE	OBSERVACIONES
54	08/21/21	15:31:28.583	50N3	Asserted	Arranques por SEF
53	08/21/21	15:31:28.598	50N3	Deasserted	
52	08/21/21	15:31:28.653	50N3	Asserted	
51	08/21/21	15:31:28.718	51P1T	Asserted	sobrecorriente
50	08/21/21	15:31:28.718	79CY	Asserted	inicio ciclo de reconexión
49	08/21/21	15:31:28.718	79RS	Deasserted	
48	08/21/21	15:31:28.718	SV10T	Asserted	
47	08/21/21	15:31:28.718	TRIP	Asserted	señal TRIP
46	08/21/21	15:31:28.778	50N3	Deasserted	
45	08/21/21	15:31:28.793	51P1T	Deasserted	
44	08/21/21	15:31:28.803	SV4	Asserted	
43	08/21/21	15:31:28.803	52A	Deasserted	Interruptor abierto
42	08/21/21	15:31:29.118	TRIP	Deasserted	
41	08/21/21	15:31:31.034	SV12T	Asserted	
40	08/21/21	15:31:33.799	CLOSE	Asserted	interruptor cerrado
39	08/21/21	15:31:33.799	SH1	Asserted	contador N° de reconexiones
38	08/21/21	15:31:33.799	SH0	Deasserted	
37	08/21/21	15:31:33.869	CLOSE	Deasserted	
36	08/21/21	15:31:33.874	SV4	Deasserted	
35	08/21/21	15:31:33.874	52A	Asserted	Interruptor cerrado
34	08/21/21	15:31:37.455	IN101	Deasserted	
33	08/21/21	15:31:38.795	SV10T	Deasserted	
32	08/21/21	15:32:27.286	SV1T	Asserted	
31	08/21/21	15:32:27.286	SV1	Asserted	
30	08/21/21	15:32:27.286	OC	Asserted	Apertura para recuperación de barra MT
29	08/21/21	15:32:27.291	SV1	Deasserted	
28	08/21/21	15:32:27.291	OC	Deasserted	
27	08/21/21	15:32:27.376	SV4	Asserted	
26	08/21/21	15:32:27.376	79LO	Asserted	

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25	08/21/21	15:32:27.376	79CY	Deasserted	
24	08/21/21	15:32:27.376	52A	Deasserted	
23	08/21/21	15:32:27.691	SV1T	Deasserted	
22	08/21/21	15:33:31.746	IN101	Asserted	
21	08/21/21	15:33:32.141	SV12T	Deasserted	
20	08/21/21	15:34:28.163	LT2	Deasserted	
19	08/21/21	15:34:28.163	RB4	Asserted	
18	08/21/21	15:34:28.163	LED2	Deasserted	
17	08/21/21	15:34:28.168	RB4	Deasserted	
16	08/21/21	16:54:19.233	SV2T	Asserted	
15	08/21/21	16:54:19.233	SV2	Asserted	
14	08/21/21	16:54:19.233	CC	Asserted	
13	08/21/21	16:54:19.238	SV2	Deasserted	
12	08/21/21	16:54:19.238	CC	Deasserted	
11	08/21/21	16:54:19.298	SV4	Deasserted	
10	08/21/21	16:54:19.298	52A	Asserted	
9	08/21/21	16:54:19.638	SV2T	Deasserted	
8	08/21/21	16:54:55.131	LT2	Asserted	
7	08/21/21	16:54:55.131	RB3	Asserted	
6	08/21/21	16:54:55.131	LED2	Asserted	
5	08/21/21	16:54:55.136	RB3	Deasserted	
4	08/21/21	16:55:19.316	79LO	Deasserted	
3	08/21/21	16:55:19.316	79RS	Asserted	
2	08/21/21	16:55:19.321	SH1	Deasserted	
1	08/21/21	16:55:19.321	SH0	Asserted	

Registro Secuencial de eventos Relé SEL 351A de Paño C1 SE Chocalán

De acuerdo con el registro, se destaca lo siguiente:

evento #51 15:31:28,718, se activa función de corriente, cumpliendo los tiempos para la operación por este elemento (51P1T).

evento # 50 15:31:28,718, inicio del ciclo de reconexión (79CY).

evento #47 15:31:28,718, señal de trip interruptor (TRIP).

evento #42 15:31:28,803, interruptor abierto (52A = deasserted).

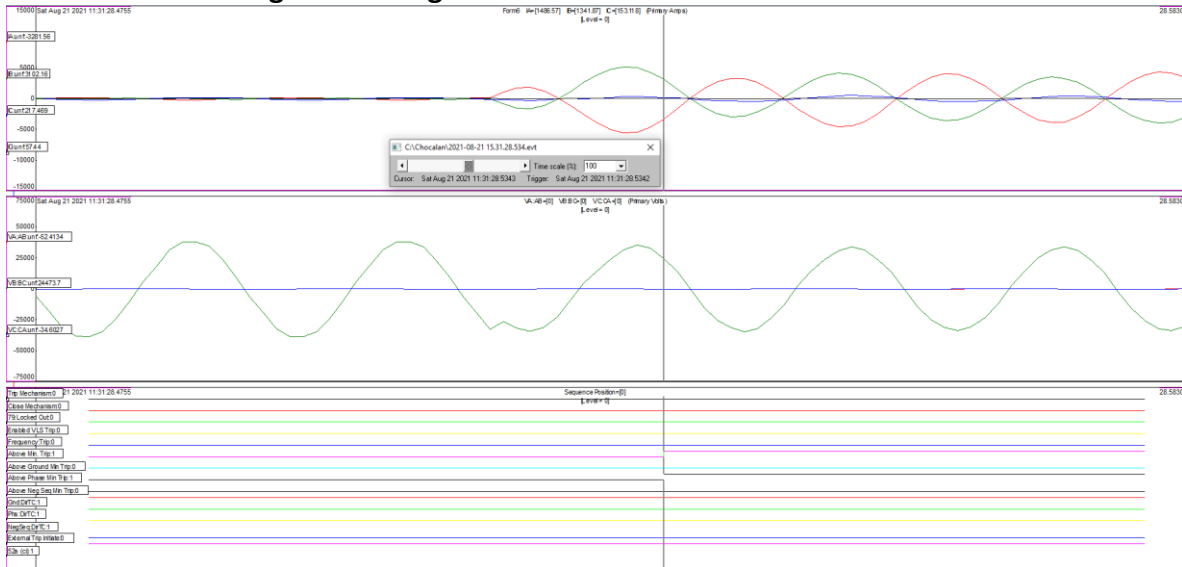
evento #40 15:31:33,799, cierre por reconexión (Estado = CLOSE)

evento #35 15:31:33,874, registro de cierre del interruptor tras reconexión (52A = asserted).

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7.3.2. General de MT de SE Chocalán – Paño CT1

- **Registro oscilográfico de evento.**



Registro oscilográfico Relé cooper form 6 CT1 SE Chocalán

En el registro oscilográfico, se observan las condiciones de arranque de la falla vista por la protección del interruptor 52CT1, se aprecia que la falla comienza por una sobrecorriente en las fases A y B, junto con la señal de sobrecorriente se activa la señal digital de arranque de protecciones (Above Phase Min Trip y Above Ground Min Trip).

Se observa el arranque de elementos de protecciones a las 11:31:28,534

- **Registro secuencial de evento.**

User device name = Form6							
Evt	Date	Time	Type	IA	IB	IC	3I0
001	21/08/21	15:33:32.506	no control alarm	0	0	0	0
002	21/08/21	15:33:31.501	MANUAL/EXT CLOSE	0	0	0	0
003	21/08/21	15:31:39.197	CONTROL ALARMS	0	0	0	0
004	21/08/21	15:31:28.717	MAN/EXT TRIP/LO	3105	3093	3045	32
005	21/08/21	15:31:28.717	CONTROL LOCKOUT	3105	3093	3045	32
006	21/08/15	16:05:14.619	no control alarm	215	95	241	5

Registro Secuencial de eventos Relé SEL 351R de Paño CT1 SE Chocalán.

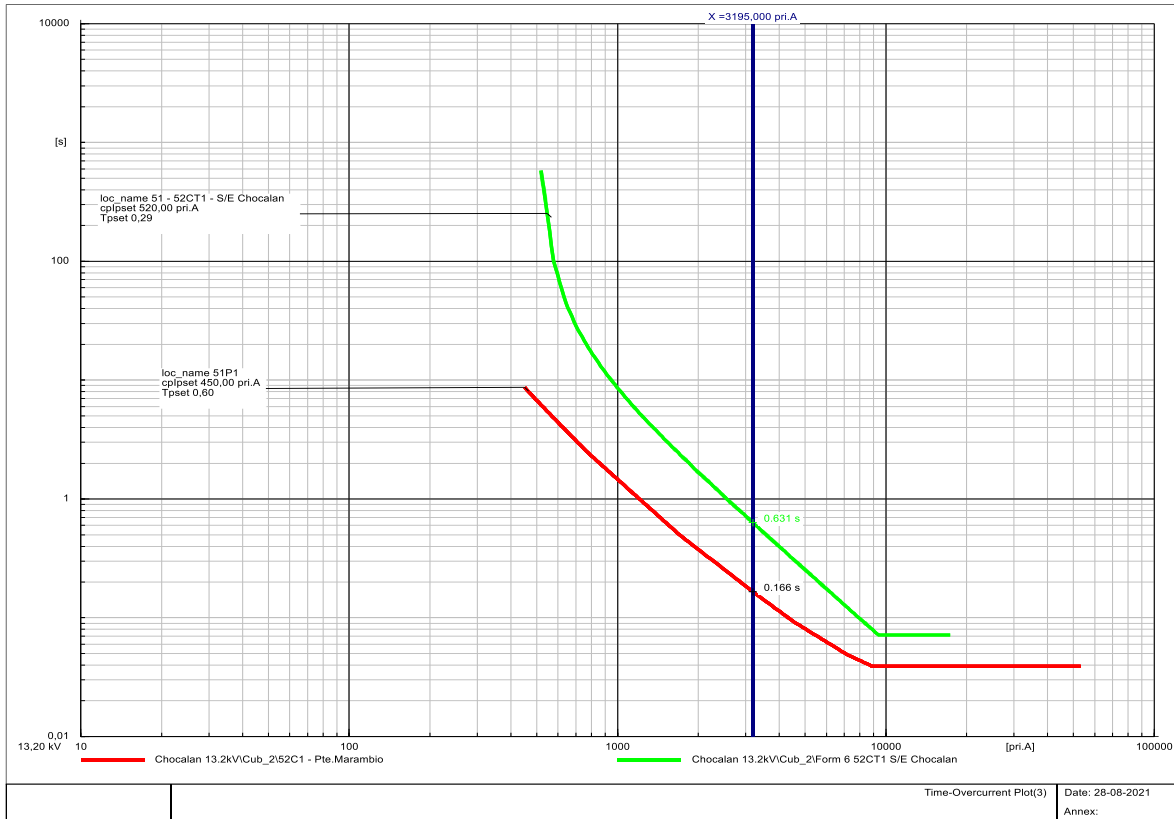
De acuerdo con el registro, se destaca lo siguiente:

eventos #004 y #005 15:31:28,717, se registran señales de falla trifásica de apertura (MAN/EXT TRIP/LO).

Se concluye que equipo opera en **180ms**.

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INSTALACIÓN (ES): 52CT1 SE Chocalán	

7.4. Análisis Coordinación de Ajustes actuales



Como es posible observa en diagrama de tiempo corriente, las curvas teóricas programadas se encuentran correctamente coordinadas.

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8. ACCIONES CORRECTIVAS.**8.1. Acciones Correctivas de Corto Plazo.**

- Se realizará la verificación de curva característica de tiempo/corriente de operación de 52CT1 de SE Chocalán.

8.2. Acciones correctivas de Largo Plazo

No hay

9. CONCLUSIONES.

En base a los registros de eventos y reportes de falla de los relés involucrados, se concluye lo siguiente:

1. Existe correcta operación por medio de función de sobrecorriente del reconectador de paño C1 de S/E Chocalán.
2. Respecto a la operación del reconectador de paño CT1, General de MT de S/E Chocalán, se concluye la operación adelantada de esta protección, dado que no cumple con el tiempo de operación teórico para el nivel de corriente de falla registrada en cercanías de barra MT de la subestación.

Corriente de Falla registrada = 3195 [A]

Tiempo Teórico: 634[ms]

Tiempo Real: 134 [ms]

En las condiciones de falla expuestas, la operación apresurada del CT1 tuvo como consecuencia que no existiera el tiempo de paso suficiente para la coordinación entre el paño C1 y CT1.

3. En base a los antecedentes y análisis realizados se concluye que el interruptor 52CT1, conformado por un interruptor NOVA con control Form-6 tuvo un comportamiento acelerado en su tiempo de respuesta y apertura una falla del orden de los 3,2 kA.

10. ANALISIS CONJUNTO.

Siendo las 11:31 hrs. del día 21.08.2021, se produce la desconexión forzada de Interruptor 52CT1 y la Reconexión Automática de Interruptor 52C1 (Alimentador Puente Marambio) de SE Chocalán, a consecuencia de falla en redes MT de distribución.

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Inmediatamente, el Centro de control de CGE identifica a través del SCADA que ambos interruptores, 52CT1 y 52C1, habían registrado una operación simultánea, lo que dio paso a ejecutar el Procedimiento de Recuperación de Barra MT, realizando la apertura de ambos alimentadores de SE Chocalán a las 11:32 hrs, y recuperando la Barra MT y los consumos de Alimentador Pabellón a las 11:34 hrs.

Posteriormente, personal de área de Distribución de CGE indica la existencia de la falla en instalaciones del Alimentador Puente Marambio, inmediatamente afuera de SE Chocalán.

Finalmente, a la 12:55Hrs, luego de reparar falla en Red de Mt, se procede a realizar el cierre de alimentador Puente Marambio a las 12:55 hrs.

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INSTALACIÓN (ES): 52CT1 SE Chocalán	

11. ANEXOS.

- I. ANEXOS I. PRINT OUT DE PROTECCIONES**
- II. ANEXO II. ESTAMPA DE TIEMPO SINCRONIZADA**

Device Identity

UserDeviceName

Form6

<u>Overcurrent Settings</u>	<u>Normal</u>	<u>Alternate 1</u>	<u>Alternate 2</u>	<u>Alternate 3</u>
Phase:				
PhsTripBlk	Unblocked	Unblocked	Unblocked	Unblocked
FastTripBlock	Unblocked	Unblocked	Unblocked	Unblocked
TCCPMinTrip	520	520	520	520
TCC1PCurve	IEC EI (202)	IEC EI (202)	IEC EI (202)	IEC EI (202)
TCC1PMultEnable	Enable	Enable	Enable	Enable
TCC1PMult	0.29	0.29	0.29	0.29
TCC1PAddEnable	Disable	Disable	Disable	Disable
TCC1PAdd	0	0	0	0
TCC1PMRTAEnable	Disable	Disable	Disable	Disable
TCC1PMRTA	0.013	0.013	0.013	0.013
TCC1PHCTEnable	Disable	Disable	Disable	Disable
TCC1PHCT Mul	32	32	32	32
TCC1PHCTDly	0.016	0.016	0.016	0.016
TCC2PCurve	IEC EI (202)	IEC EI (202)	IEC EI (202)	IEC EI (202)
TCC2PMultEnable	Disable	Disable	Disable	Disable
TCC2PMult	1	1	1	1
TCC2PAddEnable	Disable	Disable	Disable	Disable
TCC2PAdd	0	0	0	0
TCC2PMRTAEnable	Disable	Disable	Disable	Disable
TCC2PMRTA	0.013	0.013	0.013	0.013
TCC2PHCTEnable	Disable	Disable	Disable	Disable
TCC2PHCT Mul	32	32	32	32
TCC2PHCTDly	0.016	0.016	0.016	0.016

Ground:				
GndTripBlk	Unblocked	Unblocked	Unblocked	Unblocked
FastTripBlock	Unblocked	Unblocked	Unblocked	Unblocked
TCCGMinTrip	80	80	80	80
TCC1GCurve	IEC INV (200)	IEC INV (200)	IEC INV (200)	IEC INV (200)
TCC1GMultEnable	Enable	Enable	Enable	Enable
TCC1GMult	1	1	1	1
TCC1GAddEnable	Disable	Disable	Disable	Disable
TCC1GAdd	0	0	0	0
TCC1GMRTAEnable	Disable	Disable	Disable	Disable
TCC1GMRTA	0.013	0.013	0.013	0.013
TCC1GHCTEnable	Disable	Disable	Disable	Disable
TCC1GHCT Mul	32	32	32	32
TCC1GHCTDly	0.016	0.016	0.016	0.016
TCC2GCurve	IEC INV (200)	IEC INV (200)	IEC INV (200)	IEC INV (200)
TCC2GMultEnable	Disable	Disable	Disable	Disable
TCC2GMult	1	1	1	1
TCC2GAddEnable	Disable	Disable	Disable	Disable
TCC2GAdd	0	0	0	0
TCC2GMRTAEnable	Disable	Disable	Disable	Disable
TCC2GMRTA	0.013	0.013	0.013	0.013
TCC2GHCTEnable	Disable	Disable	Disable	Disable
TCC2GHCT Mul	32	32	32	32
TCC2GHCTDly	0.016	0.016	0.016	0.016

Negative Sequence:				
NegSeqTripBlk	Blocked	Blocked	Blocked	Blocked
FastTripBlock	Unblocked	Unblocked	Unblocked	Unblocked
TCCQMinTrip	100	100	100	100
TCC1QCurve	104	104	104	104
TCC1QMultEnable	Disable	Disable	Disable	Disable
TCC1QMult	1	1	1	1
TCC1QAddEnable	Disable	Disable	Disable	Disable
TCC1QAdd	0	0	0	0
TCC1QMRTAEnable	Disable	Disable	Disable	Disable
TCC1QMRTA	0.013	0.013	0.013	0.013
TCC1QHCTEnable	Disable	Disable	Disable	Disable
TCC1QHCT Mul	32	32	32	32
TCC1QHCTDly	0.016	0.016	0.016	0.016
TCC2QCurve	117	117	117	117
TCC2QMultEnable	Disable	Disable	Disable	Disable
TCC2QMult	1	1	1	1
TCC2QAddEnable	Disable	Disable	Disable	Disable
TCC2QAdd	0	0	0	0
TCC2QMRTAEnable	Disable	Disable	Disable	Disable
TCC2QMRTA	0.013	0.013	0.013	0.013
TCC2QHCTEnable	Disable	Disable	Disable	Disable
TCC2QHCT Mul	32	32	32	32
TCC2QHCTDly	0.016	0.016	0.016	0.016

<u>Operations Sequence</u>	<u>Normal</u>	<u>Alternate 1</u>	<u>Alternate 2</u>	<u>Alternate 3</u>
Operations To LO	1	1	1	1
Phase/Neg Sequence:				
PQOper#1	TCC1	TCC1	TCC1	TCC1
PQOper#2	TCC1	TCC1	TCC1	TCC1
PQOper#3	TCC2	TCC2	TCC2	TCC2
PQOper#4	TCC2	TCC2	TCC2	TCC2
Ground:				
GndOper#1	TCC1	TCC1	TCC1	TCC1
GndOper#2	TCC1	TCC1	TCC1	TCC1
GndOper#3	TCC2	TCC2	TCC2	TCC2
GndOper#4	TCC2	TCC2	TCC2	TCC2

<u>Reclose Intervals</u>	<u>Normal</u>	<u>Alternate 1</u>	<u>Alternate 2</u>	<u>Alternate 3</u>
Phase/Neg Sequence:				
PQOpenInt#1	2	2	2	2
PQOpenInt#2	2	2	2	2
PQOpenInt#3	5	5	5	5
Ground:				
GndOpenInt#1	2	2	2	2
GndOpenInt#2	2	2	2	2
GndOpenInt#3	5	5	5	5
ResetTime	30	30	30	30

<u>Cold Load Pickup</u>	<u>Normal</u>	<u>Alternate 1</u>	<u>Alternate 2</u>	<u>Alternate 3</u>
CLPUBlock	Yes	Yes	Yes	Yes
Phase:				
CLPUPMinTrip	200	200	200	200
CLPUPCurve	117	117	117	117
CLPUPMultEnable	Disable	Disable	Disable	Disable
CLPUPMult	1	1	1	1
CLPUPAddEnable	Disable	Disable	Disable	Disable
CLPUPAdd	0	0	0	0
CLPUPMRTAEnable	Disable	Disable	Disable	Disable
CLPUPMRTA	0.013	0.013	0.013	0.013
CLPUPHCTEnable	Disable	Disable	Disable	Disable
CLPUPHCT Mul	32	32	32	32
CLPUPHCTDly	0.016	0.016	0.016	0.016
Ground:				
CLPUGMinTrip	100	100	100	100
CLPUGCurve	135	135	135	135
CLPUGMultEnable	Disable	Disable	Disable	Disable
CLPUGMult	1	1	1	1
CLPUGAddEnable	Disable	Disable	Disable	Disable
CLPUGAdd	0	0	0	0
CLPUGMRTAEnable	Disable	Disable	Disable	Disable
CLPUGMRTA	0.013	0.013	0.013	0.013
CLPUGHCTEnable	Disable	Disable	Disable	Disable
CLPUGHCT Mul	32	32	32	32
CLPUGHCTDly	0.016	0.016	0.016	0.016
Negative Sequence:				
CLPUQMinTrip	100	100	100	100
CLPUQCurve	101	101	101	101
CLPUQMultEnable	Disable	Disable	Disable	Disable
CLPUQMult	1	1	1	1
CLPUQAddEnable	Disable	Disable	Disable	Disable
CLPUQAdd	0	0	0	0
CLPUQMRTAEnable	Disable	Disable	Disable	Disable
CLPUQMRTA	0.013	0.013	0.013	0.013
CLPUQHCTEnable	Disable	Disable	Disable	Disable
CLPUQHCT Mul	32	32	32	32
CLPUQHCTDly	0.016	0.016	0.016	0.016

<u>Frequency</u>	<u>Normal</u>	<u>Alternate 1</u>	<u>Alternate 2</u>	<u>Alternate 3</u>
Underfrequency:				
UFreqEnable	Off	Off	Off	Off
UFreq1PU	56	56	56	56
UFreq1Time	100	100	100	100
UFreq2PU	56	56	56	56
UFreq2Time	100	100	100	100
Overfrequency:				
OFreqEnable	Off	Off	Off	Off
OFreq1PU	64	64	64	64
OFreq1Time	100	100	100	100
OFreq2PU	64	64	64	64
OFreq2Time	100	100	100	100
U/OF Tripping Supervision:				
Freq:MinVolt	3.6	3.6	3.6	3.6
UF Loadshed Restore:				
FreqRestoreEnable	Off	Off	Off	Off
Freq:81OR:PU	60.05	60.05	60.05	60.05
Freq:62Schedule	300	300	300	300
Freq:62Abort	600	600	600	600
Freq:62Transient	0.3	0.3	0.3	0.3
VoltFreqRestSupEn	Off	Off	Off	Off

RecsTime and Control

	<u>Normal</u>	<u>Alternate 1</u>	<u>Alternate 2</u>	<u>Alternate 3</u>
79ResetTarEnable	Enable	Enable	Enable	Enable
79ResetTar	2	2	2	2
79SeqCoorEnable	Enable	Enable	Enable	Enable
79SeqCoorOps	2	2	2	2

Reclose Retry

	<u>Normal</u>	<u>Alternate 1</u>	<u>Alternate 2</u>	<u>Alternate 3</u>
RecloseRetryEnable	Disable	Disable	Disable	Disable
RecloseRetryAttempts	1	1	1	1
RecloseRetryInterval	60	60	60	60

Voltage

	<u>Normal</u>	<u>Alternate 1</u>	<u>Alternate 2</u>	<u>Alternate 3</u>
Undervoltage:				
UVolt1PEnable	Off	Off	Off	Off
UVolt3PEnable	Off	Off	Off	Off
UVolt1P/3Pinhibit	Off	Off	Off	Off
UVolt1PPU	11.52	11.52	11.52	11.52
UVolt1PTime	100	100	100	100
UVolt3PPU	11.52	11.52	11.52	11.52
UVolt3PTime	100	100	100	100
Overvoltage:				
OVoltEnable	Off	Off	Off	Off
OVolt1PPU	16.2	16.2	16.2	16.2
OVolt1PTime	100	100	100	100
OVolt3PPU	16.2	16.2	16.2	16.2
OVolt3PTime	100	100	100	100
U/OV Loadshed Restore:				
VoltRestoreEnable	Off	Off	Off	Off
VoltRestoreMode	Any Single Phase	Any Single Phase	Any Single Phase	Any Single Phase
VoltRestHiL	15.12	15.12	15.12	15.12
VoltRestLoL	13.68	13.68	13.68	13.68
Freq:62Schedule	300	300	300	300
Freq:62Abort	600	600	600	600
Freq:62Transient	0.3	0.3	0.3	0.3
VoltFreqRestSupEn	Off	Off	Off	Off

Sensitive Earth Fault

	<u>Normal</u>	<u>Alternate 1</u>	<u>Alternate 2</u>	<u>Alternate 3</u>
SEFBlock	Disable	Disable	Disable	Disable
SEFMinTrip	65	65	65	65
SEFTime	120	120	120	120
SEFReclnt	2	2	2	2

<u>Directional Control</u>	<u>Normal</u>	<u>Alternate 1</u>	<u>Alternate 2</u>	<u>Alternate 3</u>
DirMTA	60	60	60	60
DirPhs	NonDirectional	NonDirectional	NonDirectional	NonDirectional
DirGnd	NonDirectional	NonDirectional	NonDirectional	NonDirectional
DirNegSeq	NonDirectional	NonDirectional	NonDirectional	NonDirectional

<u>Low Set</u>	<u>Normal</u>	<u>Alternate 1</u>	<u>Alternate 2</u>	<u>Alternate 3</u>
Phase:				
LSPEnable	Disable	Disable	Disable	Disable
LSPPU	3200	3200	3200	3200
LSPTIMEDelay	100	100	100	100
Ground:				
LSGEnable	Disable	Disable	Disable	Disable
LSGPU	1600	1600	1600	1600
LSGTIMEDelay	100	100	100	100
Negative Sequence:				
LSQEnable	Disable	Disable	Disable	Disable
LSQPU	3200	3200	3200	3200
LSQTIMEDelay	100	100	100	100

<u>Sync Check</u>	<u>Normal</u>	<u>Alternate 1</u>	<u>Alternate 2</u>	<u>Alternate 3</u>
25DV:Enable	Disable	Disable	Disable	Disable
25DV:DLDB	Disable	Disable	Disable	Disable
25DV:DLHB	Disable	Disable	Disable	Disable
25DV:HLDB	Disable	Disable	Disable	Disable
25DV:HLHB	Disable	Disable	Disable	Disable
25DV27	15840	15840	15840	15840
25DV27DEAD	2640	2640	2640	2640
25DV:59	12240	12240	12240	12240
25DV:59LME	11520	11520	11520	11520
25DV	40	40	40	40
StaticAngleDelay	10	10	10	10
MechanismOpDelay	0.1	0.1	0.1	0.1

SEL-351R-4 Settings Report

Setting	Range	Value
<input type="checkbox"/> Group : 1		
RID		SEL351R 52C1 S/E CHOCALAN
TID		ALIM. PUENTE MARAMBIO
CTR	1.0-6000.0	1000.0
PTR	1.0-10000.0	100.0
PTRS	1.0-10000.0	100.0
Z1MAG	0.50-2550.00Ohm,sec	32.10
Z1ANG	40.00-90.00	68.86
Z0MAG	0.50-2550.00Ohm,sec	95.70
Z0ANG	40.00-90.00	72.47
LL	0.10-999.00	4.84
E50P	Select: N, 1-6	N
E50N	Select: N, 1-6	3
E50G	Select: N, 1-6	N
E50Q	Select: N, 1-6	N
E51P	Select: N, 1, 2	1
E51N	Select: N, 1, 2	1
E51G	Select: N, 1, 2	N
E51Q	Select: N, Y	N
E32	Select: N, Y, AUTO	N
ELOAD	Select: N, Y	N
ESOTF	Select: N, Y	N

<Filter is Empty>

Setting	Range	Value
EVOLT	Select: N, Y	Y
E25	Select: N, Y	N
EFLOC	Select: N, Y	N
ELOP	Select: N, Y, Y1	N
ECOMM	Select: N, DCB, POTT, DCUB1, DCUB2	N
E81	Select: N, 1-6	N
E79	Select: N, 1-4	1
ESV	Select: N, 1-16	16
EDEM	Select: THM, ROL	THM
50P1P	OFF,0.05-20.00Amp,sec	OFF
50P2P	OFF,0.05-20.00Amp,sec	OFF
50P3P	OFF,0.05-20.00Amp,sec	OFF
50P4P	OFF,0.05-20.00Amp,sec	OFF
50P5P	OFF,0.05-20.00Amp,sec	OFF
50P6P	OFF,0.05-20.00Amp,sec	OFF
67P1D	0.00-16000.00cyc	0.00
67P2D	0.00-16000.00cyc	0.00
67P3D	0.00-16000.00cyc	0.00
67P4D	0.00-16000.00cyc	0.00
50PP1P	OFF,0.20-34.00Amp,sec	OFF
50PP2P	OFF,0.20-34.00Amp,sec	OFF
50PP3P	OFF,0.20-34.00Amp,sec	OFF
50PP4P	OFF,0.20-34.00Amp,sec	OFF
50N1P	OFF,0.005-1.500Amp,sec	OFF

<Filter is Empty>

Setting	Range	Value
50N2P	OFF,0.005-1.500Amp,sec	OFF
50N3P	OFF,0.005-1.500Amp,sec	0.013
50N4P	OFF,0.005-1.500Amp,sec	OFF
50N5P	OFF,0.005-1.500Amp,sec	OFF
50N6P	OFF,0.005-1.500Amp,sec	OFF
67N1D	0.00-16000.00cyc	0.00
67N2D	0.00-16000.00cyc	0.00
67N3D	0.00-16000.00cyc	4500.00
67N4D	0.00-16000.00cyc	0.00
50G1P	OFF,0.05-20.00Amp,sec	OFF
50G2P	OFF,0.05-20.00Amp,sec	OFF
50G3P	OFF,0.05-20.00Amp,sec	OFF
50G4P	OFF,0.05-20.00Amp,sec	OFF
50G5P	OFF,0.05-20.00Amp,sec	OFF
50G6P	OFF,0.05-20.00Amp,sec	OFF
67G1D	0.00-16000.00cyc	0.00
67G2D	0.00-16000.00cyc	0.00
67G3D	0.00-16000.00cyc	0.00
67G4D	0.00-16000.00cyc	0.00
50Q1P	OFF,0.05-20.00Amp,sec	OFF
50Q2P	OFF,0.05-20.00Amp,sec	OFF
50Q3P	OFF,0.05-20.00Amp,sec	OFF
50Q4P	OFF,0.05-20.00Amp,sec	OFF
50Q5P	OFF,0.05-20.00Amp,sec	OFF

<Filter is Empty>

Setting	Range	Value
50Q6P	OFF,0.05-20.00Amp,sec	OFF
67Q1D	0.00-16000.00cyc	0.00
67Q2D	0.00-16000.00cyc	0.00
67Q3D	0.00-16000.00cyc	0.00
67Q4D	0.00-16000.00cyc	0.00
51P1P	OFF,0.05-3.20Amp,sec	0.45
51P1C		133
51P1TD	0.10-2.00	0.60
51P1RS	Select: N, Y	N
51P1CT	0.00-60.00cyc	0.00
51P1MR	0.00-60.00cyc	0.00
51P2P	OFF,0.05-3.20Amp,sec	OFF
51P2C		C
51P2TD	0.10-2.00	1.00
51P2RS	Select: N, Y	N
51P2CT	0.00-60.00cyc	0.00
51P2MR	0.00-60.00cyc	0.00
51N1P	OFF,0.005-0.160Amp,sec	0.060
51N1C		140
51N1TD	0.10-2.00	1.00
51N1RS	Select: N, Y	N
51N1CT	0.00-60.00cyc	0.00
51N1MR	0.00-60.00cyc	0.00
51N2P	OFF,0.005-0.160Amp,sec	OFF

<Filter is Empty>

Setting	Range	Value
51N2C		13
51N2TD	0.10-2.00	1.00
51N2RS	Select: N, Y	N
51N2CT	0.00-60.00cyc	0.00
51N2MR	0.00-60.00cyc	0.00
51G1P	OFF,0.05-3.20Amp,sec	OFF
51G1C		1
51G1TD	0.10-2.00	1.00
51G1RS	Select: N, Y	N
51G1CT	0.00-60.00cyc	0.00
51G1MR	0.00-60.00cyc	0.00
51G2P	OFF,0.05-3.20Amp,sec	OFF
51G2C		13
51G2TD	0.10-2.00	1.00
51G2RS	Select: N, Y	N
51G2CT	0.00-60.00cyc	0.00
51G2MR	0.00-60.00cyc	0.00
51QP	OFF,0.05-3.20Amp,sec	OFF
51QC		U3
51QTD	0.50-15.00	3.00
51QRS	Select: N, Y	N
51QCT	0.00-60.00cyc	0.00
51QMR	0.00-60.00cyc	0.00
ZLF	0.50-640.00Ohm,sec	32.50

<Filter is Empty>

Setting	Range	Value
ZLR	0.50-640.00Ohm,sec	32.50
PLAF	-90-90deg	30
NLAF	-90-90deg	-30
PLAR	90-270deg	150
NLAR	90-270deg	210
DIR1	Select: N, F, R	N
DIR2	Select: N, F, R	N
DIR3	Select: N, F, R	N
DIR4	Select: N, F, R	N
ORDER	Select: OFF, Q, QV, V, VQ	OFF
50P32P	0.10-2.00Amp,sec	0.60
Z2F	-640.00-640.00Ohm,sec	4.50
Z2R	-640.00-640.00Ohm,sec	5.50
50QFP	0.05-1.00Amp,sec	0.10
50QRP	0.05-1.00Amp,sec	0.05
a2	0.02-0.50	0.10
k2	0.10-1.20	0.20
50GFP	0.05-1.00Amp,sec	0.10
50GRP	0.05-1.00Amp,sec	0.05
a0	0.02-0.50	0.10
Z0F	-640.00-640.00Ohm,sec	15.00
Z0R	-640.00-640.00Ohm,sec	16.00
27P1P	OFF,0.0-300.0V,sec	OFF
27P2P	OFF,0.0-300.0V,sec	OFF

<Filter is Empty>

Setting	Range	Value
59P1P	OFF,0.0-300.0V,sec	OFF
59P2P	OFF,0.0-300.0V,sec	OFF
59N1P	OFF,0.0-300.0V,sec	OFF
59N2P	OFF,0.0-300.0V,sec	OFF
59QP	OFF,0.0-200.0V,sec	OFF
59V1P	OFF,0.0-300.0V,sec	OFF
27SP	OFF,0.0-300.0V,sec	OFF
59S1P	OFF,0.0-300.0V,sec	OFF
59S2P	OFF,0.0-300.0V,sec	OFF
27PP	OFF,0.0-520.0V,sec	OFF
59PP	OFF,0.0-520.0V,sec	OFF
25VLO	0.0-300.0V,sec	105.0
25VHI	0.0-300.0V,sec	130.0
25SF	0.005-0.500Hz	0.042
25ANG1	0-80deg	25
25ANG2	0-80deg	40
SYNCP	Select: VA, VB, VC, 0, 30, 60, 90, 120, 150, 180, 210, 240, 270, 300, 330	VA
TCLOSD	0.00-60.00cyc	3.00
27B81P	20.0-300.0V,sec	80.0
81D1P	OFF,40.10-65.00Hz	OFF
81D1D	2.00-16000.00cyc	6.00
81D2P	OFF,40.10-65.00Hz	OFF
81D2D	2.00-16000.00cyc	2.00

<Filter is Empty>

Setting	Range	Value
81D3P	OFF,40.10-65.00Hz	OFF
81D3D	2.00-16000.00cyc	2.00
81D4P	OFF,40.10-65.00Hz	OFF
81D4D	2.00-16000.00cyc	2.00
81D5P	OFF,40.10-65.00Hz	OFF
81D5D	2.00-16000.00cyc	2.00
81D6P	OFF,40.10-65.00Hz	OFF
81D6D	2.00-16000.00cyc	2.00
79OI1	0.00-999999.00cyc	250.00
79OI2	0.00-999999.00cyc	0.00
79OI3	0.00-999999.00cyc	0.00
79OI4	0.00-999999.00cyc	0.00
79RSD	0.00-999999.00cyc	3000.00
79RSLD	0.00-999999.00cyc	3000.00
79CLSD	OFF,0.00-999999.00cyc	0.00
CLOEND	OFF,0.00-16000.00cyc	OFF
52AEND	OFF,0.00-16000.00cyc	OFF
SOTFD	0.50-16000.00cyc	30.00
Z3RBD	0.00-16000.00cyc	5.00
EBLKD	OFF,0.00-16000.00cyc	10.00
ETDPU	OFF,0.00-16000.00cyc	2.00
EDURD	0.00-16000.00cyc	3.50
EWFC	Select: N, Y	N
GARD1D	0.00-16000.00cyc	1.00

<Filter is Empty>

Setting	Range	Value
UBDURD	0.25-16000.00cyc	9.00
UBEND	0.00-16000.00cyc	0.50
Z3XPU	0.00-16000.00cyc	2.00
Z3XD	0.00-16000.00cyc	5.00
BTXD	0.00-16000.00cyc	0.00
67P2SD	0.00-60.00cyc	1.00
67N2SD	0.00-60.00cyc	1.00
67G2SD	0.00-60.00cyc	1.00
67Q2SD	0.00-60.00cyc	1.00
DMTC	Select: 5, 10, 15, 30, 60	5
PDEMP	OFF,0.10-3.20Amp,sec	OFF
NDEMP	OFF,0.005-0.160Amp,sec	OFF
GDEMP	OFF,0.10-3.20Amp,sec	OFF
QDEMP	OFF,0.10-3.20Amp,sec	OFF
TDURD	4.00-16000.00cyc	20.00
CFD	OFF,0.00-16000.00cyc	60.00
3POD	0.00-60.00cyc	1.50
50LP	OFF,0.05-20.00Amp,sec	0.05
SV1PU	0.00-999999.00cyc	0.00
SV1DO	0.00-999999.00cyc	20.00
SV2PU	0.00-999999.00cyc	0.00
SV2DO	0.00-999999.00cyc	20.00
SV3PU	0.00-999999.00cyc	0.00
SV3DO	0.00-999999.00cyc	0.00

<Filter is Empty>

Setting	Range	Value
SV4PU	0.00-999999.00cyc	0.00
SV4DO	0.00-999999.00cyc	0.00
SV5PU	0.00-999999.00cyc	0.00
SV5DO	0.00-999999.00cyc	0.00
SV6PU	0.00-999999.00cyc	0.00
SV6DO	0.00-999999.00cyc	0.00
SV7PU	0.00-999999.00cyc	1000.00
SV7DO	0.00-999999.00cyc	0.00
SV8PU	0.00-999999.00cyc	0.00
SV8DO	0.00-999999.00cyc	0.00
SV9PU	0.00-999999.00cyc	0.00
SV9DO	0.00-999999.00cyc	0.00
SV10PU	0.00-999999.00cyc	0.00
SV10DO	0.00-999999.00cyc	500.00
SV11PU	0.00-999999.00cyc	0.00
SV11DO	0.00-999999.00cyc	500.00
SV12PU	0.00-999999.00cyc	0.00
SV12DO	0.00-999999.00cyc	0.00
SV13PU	0.00-999999.00cyc	0.00
SV13DO	0.00-999999.00cyc	0.00
SV14PU	0.00-999999.00cyc	0.00
SV14DO	0.00-999999.00cyc	0.00
SV15PU	0.00-999999.00cyc	0.00
SV15DO	0.00-999999.00cyc	0.00

<Filter is Empty>

Setting	Range	Value
SV16PU	0.00-999999.00cyc	0.00
SV16DO	0.00-999999.00cyc	0.00
OPPH	OFF,1-5	OFF
OPGR	OFF,1-5	OFF
OPLKPH	OFF,1-5	2
OPLKGR	OFF,1-5	2
OPLKSF	OFF,1-5	OFF
HITRPH	OFF,1-5	OFF
HITRGR	OFF,1-5	OFF
HILKPH	OFF,1-5	OFF
HILKGR	OFF,1-5	OFF
ECOLDP	Select: N, Y	N
ECOLDG	Select: N, Y	N
RPPH	Select: N, Y	N
RPGR	Select: N, Y	N
RPSEF	Select: N, Y	N
ESEQ	Select: N, Y	N
PRECED	Select: N, Y	N

Group : 2

RID		SEL351R 52C1 S/E CHOCALAN
TID		ALIM. PUENTE MARAMBIO
CTR	1.0-6000.0	1000.0

<Filter is Empty>

Setting	Range	Value
PTR	1.0-10000.0	100.0
PTRS	1.0-10000.0	100.0
Z1MAG	0.50-2550.00Ohm,sec	32.10
Z1ANG	40.00-90.00	68.86
Z0MAG	0.50-2550.00Ohm,sec	95.70
Z0ANG	40.00-90.00	72.47
LL	0.10-999.00	4.84
E50P	Select: N, 1-6	N
E50N	Select: N, 1-6	3
E50G	Select: N, 1-6	N
E50Q	Select: N, 1-6	N
E51P	Select: N, 1, 2	1
E51N	Select: N, 1, 2	1
E51G	Select: N, 1, 2	N
E51Q	Select: N, Y	N
E32	Select: N, Y, AUTO	N
ELOAD	Select: N, Y	N
ESOTF	Select: N, Y	N
EVOLT	Select: N, Y	Y
E25	Select: N, Y	N
EFLOC	Select: N, Y	N
ELOP	Select: N, Y, Y1	N
ECOMM	Select: N, DCB, POTT, DCUB1, DCUB2	N
E81	Select: N, 1-6	N

<Filter is Empty>

Setting	Range	Value
E79	Select: N, 1-4	1
ESV	Select: N, 1-16	16
EDEM	Select: THM, ROL	THM
50P1P	OFF,0.05-20.00Amp,sec	OFF
50P2P	OFF,0.05-20.00Amp,sec	OFF
50P3P	OFF,0.05-20.00Amp,sec	OFF
50P4P	OFF,0.05-20.00Amp,sec	OFF
50P5P	OFF,0.05-20.00Amp,sec	OFF
50P6P	OFF,0.05-20.00Amp,sec	OFF
67P1D	0.00-16000.00cyc	0.00
67P2D	0.00-16000.00cyc	0.00
67P3D	0.00-16000.00cyc	0.00
67P4D	0.00-16000.00cyc	0.00
50PP1P	OFF,0.20-34.00Amp,sec	OFF
50PP2P	OFF,0.20-34.00Amp,sec	OFF
50PP3P	OFF,0.20-34.00Amp,sec	OFF
50PP4P	OFF,0.20-34.00Amp,sec	OFF
50N1P	OFF,0.005-1.500Amp,sec	OFF
50N2P	OFF,0.005-1.500Amp,sec	OFF
50N3P	OFF,0.005-1.500Amp,sec	0.013
50N4P	OFF,0.005-1.500Amp,sec	OFF
50N5P	OFF,0.005-1.500Amp,sec	OFF
50N6P	OFF,0.005-1.500Amp,sec	OFF
67N1D	0.00-16000.00cyc	0.00

<Filter is Empty>

Setting	Range	Value
67N2D	0.00-16000.00cyc	0.00
67N3D	0.00-16000.00cyc	4500.00
67N4D	0.00-16000.00cyc	0.00
50G1P	OFF,0.05-20.00Amp,sec	OFF
50G2P	OFF,0.05-20.00Amp,sec	OFF
50G3P	OFF,0.05-20.00Amp,sec	OFF
50G4P	OFF,0.05-20.00Amp,sec	OFF
50G5P	OFF,0.05-20.00Amp,sec	OFF
50G6P	OFF,0.05-20.00Amp,sec	OFF
67G1D	0.00-16000.00cyc	0.00
67G2D	0.00-16000.00cyc	0.00
67G3D	0.00-16000.00cyc	0.00
67G4D	0.00-16000.00cyc	0.00
50Q1P	OFF,0.05-20.00Amp,sec	OFF
50Q2P	OFF,0.05-20.00Amp,sec	OFF
50Q3P	OFF,0.05-20.00Amp,sec	OFF
50Q4P	OFF,0.05-20.00Amp,sec	OFF
50Q5P	OFF,0.05-20.00Amp,sec	OFF
50Q6P	OFF,0.05-20.00Amp,sec	OFF
67Q1D	0.00-16000.00cyc	0.00
67Q2D	0.00-16000.00cyc	0.00
67Q3D	0.00-16000.00cyc	0.00
67Q4D	0.00-16000.00cyc	0.00
51P1P	OFF,0.05-3.20Amp,sec	0.45

<Filter is Empty>

Setting	Range	Value
51P1C		133
51P1TD	0.10-2.00	0.60
51P1RS	Select: N, Y	N
51P1CT	0.00-60.00cyc	0.00
51P1MR	0.00-60.00cyc	0.00
51P2P	OFF,0.05-3.20Amp,sec	OFF
51P2C		C
51P2TD	0.10-2.00	1.00
51P2RS	Select: N, Y	N
51P2CT	0.00-60.00cyc	0.00
51P2MR	0.00-60.00cyc	0.00
51N1P	OFF,0.005-0.160Amp,sec	0.060
51N1C		140
51N1TD	0.10-2.00	1.00
51N1RS	Select: N, Y	N
51N1CT	0.00-60.00cyc	0.00
51N1MR	0.00-60.00cyc	0.00
51N2P	OFF,0.005-0.160Amp,sec	OFF
51N2C		13
51N2TD	0.10-2.00	1.00
51N2RS	Select: N, Y	N
51N2CT	0.00-60.00cyc	0.00
51N2MR	0.00-60.00cyc	0.00
51G1P	OFF,0.05-3.20Amp,sec	OFF

<Filter is Empty>

Setting	Range	Value
51G1C		1
51G1TD	0.10-2.00	1.00
51G1RS	Select: N, Y	N
51G1CT	0.00-60.00cyc	0.00
51G1MR	0.00-60.00cyc	0.00
51G2P	OFF,0.05-3.20Amp,sec	OFF
51G2C		13
51G2TD	0.10-2.00	1.00
51G2RS	Select: N, Y	N
51G2CT	0.00-60.00cyc	0.00
51G2MR	0.00-60.00cyc	0.00
51QP	OFF,0.05-3.20Amp,sec	OFF
51QC		U3
51QTD	0.50-15.00	3.00
51QRS	Select: N, Y	N
51QCT	0.00-60.00cyc	0.00
51QMR	0.00-60.00cyc	0.00
ZLF	0.50-640.00Ohm,sec	32.50
ZLR	0.50-640.00Ohm,sec	32.50
PLAF	-90-90deg	30
NLAF	-90-90deg	-30
PLAR	90-270deg	150
NLAR	90-270deg	210
DIR1	Select: N, F, R	N

<Filter is Empty>

Setting	Range	Value
DIR2	Select: N, F, R	N
DIR3	Select: N, F, R	N
DIR4	Select: N, F, R	N
ORDER	Select: OFF, Q, QV, V, VQ	OFF
50P32P	0.10-2.00Amp,sec	0.60
Z2F	-640.00-640.00Ohm,sec	4.50
Z2R	-640.00-640.00Ohm,sec	5.50
50QFP	0.05-1.00Amp,sec	0.10
50QRP	0.05-1.00Amp,sec	0.05
a2	0.02-0.50	0.10
k2	0.10-1.20	0.20
50GFP	0.05-1.00Amp,sec	0.10
50GRP	0.05-1.00Amp,sec	0.05
a0	0.02-0.50	0.10
Z0F	-640.00-640.00Ohm,sec	15.00
Z0R	-640.00-640.00Ohm,sec	16.00
27P1P	OFF,0.0-300.0V,sec	OFF
27P2P	OFF,0.0-300.0V,sec	OFF
59P1P	OFF,0.0-300.0V,sec	OFF
59P2P	OFF,0.0-300.0V,sec	OFF
59N1P	OFF,0.0-300.0V,sec	OFF
59N2P	OFF,0.0-300.0V,sec	OFF
59QP	OFF,0.0-200.0V,sec	OFF
59V1P	OFF,0.0-300.0V,sec	OFF

<Filter is Empty>

Setting	Range	Value
27SP	OFF,0.0-300.0V,sec	OFF
59S1P	OFF,0.0-300.0V,sec	OFF
59S2P	OFF,0.0-300.0V,sec	OFF
27PP	OFF,0.0-520.0V,sec	OFF
59PP	OFF,0.0-520.0V,sec	OFF
25VLO	0.0-300.0V,sec	105.0
25VHI	0.0-300.0V,sec	130.0
25SF	0.005-0.500Hz	0.042
25ANG1	0-80deg	25
25ANG2	0-80deg	40
SYNCP	Select: VA, VB, VC, 0, 30, 60, 90, 120, 150, 180, 210, 240, 270, 300, 330	VA
TCLOSD	0.00-60.00cyc	3.00
27B81P	20.0-300.0V,sec	80.0
81D1P	OFF,40.10-65.00Hz	OFF
81D1D	2.00-16000.00cyc	6.00
81D2P	OFF,40.10-65.00Hz	OFF
81D2D	2.00-16000.00cyc	2.00
81D3P	OFF,40.10-65.00Hz	OFF
81D3D	2.00-16000.00cyc	2.00
81D4P	OFF,40.10-65.00Hz	OFF
81D4D	2.00-16000.00cyc	2.00
81D5P	OFF,40.10-65.00Hz	OFF
81D5D	2.00-16000.00cyc	2.00

<Filter is Empty>

Setting	Range	Value
81D6P	OFF,40.10-65.00Hz	OFF
81D6D	2.00-16000.00cyc	2.00
79OI1	0.00-999999.00cyc	250.00
79OI2	0.00-999999.00cyc	0.00
79OI3	0.00-999999.00cyc	0.00
79OI4	0.00-999999.00cyc	0.00
79RSD	0.00-999999.00cyc	3000.00
79RSLD	0.00-999999.00cyc	3000.00
79CLSD	OFF,0.00-999999.00cyc	0.00
CLOEND	OFF,0.00-16000.00cyc	OFF
52AEND	OFF,0.00-16000.00cyc	OFF
SOTFD	0.50-16000.00cyc	30.00
Z3RBD	0.00-16000.00cyc	5.00
EBLKD	OFF,0.00-16000.00cyc	10.00
ETDPU	OFF,0.00-16000.00cyc	2.00
EDURD	0.00-16000.00cyc	3.50
EWFC	Select: N, Y	N
GARD1D	0.00-16000.00cyc	1.00
UBDURD	0.25-16000.00cyc	9.00
UBEND	0.00-16000.00cyc	0.50
Z3XPU	0.00-16000.00cyc	2.00
Z3XD	0.00-16000.00cyc	5.00
BTXD	0.00-16000.00cyc	0.00
67P2SD	0.00-60.00cyc	1.00

<Filter is Empty>

Setting	Range	Value
67N2SD	0.00-60.00cyc	1.00
67G2SD	0.00-60.00cyc	1.00
67Q2SD	0.00-60.00cyc	1.00
DMTC	Select: 5, 10, 15, 30, 60	5
PDEMP	OFF,0.10-3.20Amp,sec	OFF
NDEMP	OFF,0.005-0.160Amp,sec	OFF
GDEMP	OFF,0.10-3.20Amp,sec	OFF
QDEMP	OFF,0.10-3.20Amp,sec	OFF
TDURD	4.00-16000.00cyc	20.00
CFD	OFF,0.00-16000.00cyc	60.00
3POD	0.00-60.00cyc	1.50
50LP	OFF,0.05-20.00Amp,sec	0.05
SV1PU	0.00-999999.00cyc	0.00
SV1DO	0.00-999999.00cyc	20.00
SV2PU	0.00-999999.00cyc	0.00
SV2DO	0.00-999999.00cyc	20.00
SV3PU	0.00-999999.00cyc	0.00
SV3DO	0.00-999999.00cyc	0.00
SV4PU	0.00-999999.00cyc	0.00
SV4DO	0.00-999999.00cyc	0.00
SV5PU	0.00-999999.00cyc	0.00
SV5DO	0.00-999999.00cyc	0.00
SV6PU	0.00-999999.00cyc	0.00
SV6DO	0.00-999999.00cyc	0.00

<Filter is Empty>

Setting	Range	Value
SV7PU	0.00-999999.00cyc	1000.00
SV7DO	0.00-999999.00cyc	0.00
SV8PU	0.00-999999.00cyc	0.00
SV8DO	0.00-999999.00cyc	0.00
SV9PU	0.00-999999.00cyc	0.00
SV9DO	0.00-999999.00cyc	0.00
SV10PU	0.00-999999.00cyc	0.00
SV10DO	0.00-999999.00cyc	500.00
SV11PU	0.00-999999.00cyc	0.00
SV11DO	0.00-999999.00cyc	500.00
SV12PU	0.00-999999.00cyc	0.00
SV12DO	0.00-999999.00cyc	0.00
SV13PU	0.00-999999.00cyc	0.00
SV13DO	0.00-999999.00cyc	0.00
SV14PU	0.00-999999.00cyc	0.00
SV14DO	0.00-999999.00cyc	0.00
SV15PU	0.00-999999.00cyc	0.00
SV15DO	0.00-999999.00cyc	0.00
SV16PU	0.00-999999.00cyc	0.00
SV16DO	0.00-999999.00cyc	0.00
OPPH	OFF,1-5	OFF
OPGR	OFF,1-5	OFF
OPLKPH	OFF,1-5	2
OPLKGR	OFF,1-5	2

<Filter is Empty>

Setting	Range	Value
OPLKSF	OFF,1-5	OFF
HITRPH	OFF,1-5	OFF
HITRGR	OFF,1-5	OFF
HILKPH	OFF,1-5	OFF
HILKGR	OFF,1-5	OFF
ECOLDP	Select: N, Y	N
ECOLDG	Select: N, Y	N
RPPH	Select: N, Y	N
RPGR	Select: N, Y	N
RPSEF	Select: N, Y	N
ESEQ	Select: N, Y	N
PRECED	Select: N, Y	N

Group : 3

RID		SEL351R 52C1 S/E CHOCALAN
TID		ALIM. PUENTE MARAMBIO
CTR	1.0-6000.0	1000.0
PTR	1.0-10000.0	100.0
PTRS	1.0-10000.0	100.0
Z1MAG	0.50-2550.00Ohm,sec	32.10
Z1ANG	40.00-90.00	68.86
Z0MAG	0.50-2550.00Ohm,sec	95.70
Z0ANG	40.00-90.00	72.47

<Filter is Empty>

Setting	Range	Value
LL	0.10-999.00	4.84
E50P	Select: N, 1-6	N
E50N	Select: N, 1-6	3
E50G	Select: N, 1-6	N
E50Q	Select: N, 1-6	N
E51P	Select: N, 1, 2	1
E51N	Select: N, 1, 2	1
E51G	Select: N, 1, 2	N
E51Q	Select: N, Y	N
E32	Select: N, Y, AUTO	N
ELOAD	Select: N, Y	N
ESOTF	Select: N, Y	N
EVOLT	Select: N, Y	Y
E25	Select: N, Y	N
EFLOC	Select: N, Y	N
ELOP	Select: N, Y, Y1	N
ECOMM	Select: N, DCB, POTT, DCUB1, DCUB2	N
E81	Select: N, 1-6	N
E79	Select: N, 1-4	1
ESV	Select: N, 1-16	16
EDEM	Select: THM, ROL	THM
50P1P	OFF,0.05-20.00Amp,sec	OFF
50P2P	OFF,0.05-20.00Amp,sec	OFF
50P3P	OFF,0.05-20.00Amp,sec	OFF

<Filter is Empty>

Setting	Range	Value
50P4P	OFF,0.05-20.00Amp,sec	OFF
50P5P	OFF,0.05-20.00Amp,sec	OFF
50P6P	OFF,0.05-20.00Amp,sec	OFF
67P1D	0.00-16000.00cyc	0.00
67P2D	0.00-16000.00cyc	0.00
67P3D	0.00-16000.00cyc	0.00
67P4D	0.00-16000.00cyc	0.00
50PP1P	OFF,0.20-34.00Amp,sec	OFF
50PP2P	OFF,0.20-34.00Amp,sec	OFF
50PP3P	OFF,0.20-34.00Amp,sec	OFF
50PP4P	OFF,0.20-34.00Amp,sec	OFF
50N1P	OFF,0.005-1.500Amp,sec	OFF
50N2P	OFF,0.005-1.500Amp,sec	OFF
50N3P	OFF,0.005-1.500Amp,sec	0.013
50N4P	OFF,0.005-1.500Amp,sec	OFF
50N5P	OFF,0.005-1.500Amp,sec	OFF
50N6P	OFF,0.005-1.500Amp,sec	OFF
67N1D	0.00-16000.00cyc	0.00
67N2D	0.00-16000.00cyc	0.00
67N3D	0.00-16000.00cyc	4500.00
67N4D	0.00-16000.00cyc	0.00
50G1P	OFF,0.05-20.00Amp,sec	OFF
50G2P	OFF,0.05-20.00Amp,sec	OFF
50G3P	OFF,0.05-20.00Amp,sec	OFF

<Filter is Empty>

Setting	Range	Value
50G4P	OFF,0.05-20.00Amp,sec	OFF
50G5P	OFF,0.05-20.00Amp,sec	OFF
50G6P	OFF,0.05-20.00Amp,sec	OFF
67G1D	0.00-16000.00cyc	0.00
67G2D	0.00-16000.00cyc	0.00
67G3D	0.00-16000.00cyc	0.00
67G4D	0.00-16000.00cyc	0.00
50Q1P	OFF,0.05-20.00Amp,sec	OFF
50Q2P	OFF,0.05-20.00Amp,sec	OFF
50Q3P	OFF,0.05-20.00Amp,sec	OFF
50Q4P	OFF,0.05-20.00Amp,sec	OFF
50Q5P	OFF,0.05-20.00Amp,sec	OFF
50Q6P	OFF,0.05-20.00Amp,sec	OFF
67Q1D	0.00-16000.00cyc	0.00
67Q2D	0.00-16000.00cyc	0.00
67Q3D	0.00-16000.00cyc	0.00
67Q4D	0.00-16000.00cyc	0.00
51P1P	OFF,0.05-3.20Amp,sec	0.45
51P1C		133
51P1TD	0.10-2.00	0.60
51P1RS	Select: N, Y	N
51P1CT	0.00-60.00cyc	0.00
51P1MR	0.00-60.00cyc	0.00
51P2P	OFF,0.05-3.20Amp,sec	OFF

<Filter is Empty>

Setting	Range	Value
51P2C		C
51P2TD	0.10-2.00	1.00
51P2RS	Select: N, Y	N
51P2CT	0.00-60.00cyc	0.00
51P2MR	0.00-60.00cyc	0.00
51N1P	OFF,0.005-0.160Amp,sec	0.060
51N1C		140
51N1TD	0.10-2.00	1.00
51N1RS	Select: N, Y	N
51N1CT	0.00-60.00cyc	0.00
51N1MR	0.00-60.00cyc	0.00
51N2P	OFF,0.005-0.160Amp,sec	OFF
51N2C		13
51N2TD	0.10-2.00	1.00
51N2RS	Select: N, Y	N
51N2CT	0.00-60.00cyc	0.00
51N2MR	0.00-60.00cyc	0.00
51G1P	OFF,0.05-3.20Amp,sec	OFF
51G1C		1
51G1TD	0.10-2.00	1.00
51G1RS	Select: N, Y	N
51G1CT	0.00-60.00cyc	0.00
51G1MR	0.00-60.00cyc	0.00
51G2P	OFF,0.05-3.20Amp,sec	OFF

<Filter is Empty>

Setting	Range	Value
51G2C		13
51G2TD	0.10-2.00	1.00
51G2RS	Select: N, Y	N
51G2CT	0.00-60.00cyc	0.00
51G2MR	0.00-60.00cyc	0.00
51QP	OFF,0.05-3.20Amp,sec	OFF
51QC		U3
51QTD	0.50-15.00	3.00
51QRS	Select: N, Y	N
51QCT	0.00-60.00cyc	0.00
51QMR	0.00-60.00cyc	0.00
ZLF	0.50-640.00Ohm,sec	32.50
ZLR	0.50-640.00Ohm,sec	32.50
PLAF	-90-90deg	30
NLAF	-90-90deg	-30
PLAR	90-270deg	150
NLAR	90-270deg	210
DIR1	Select: N, F, R	N
DIR2	Select: N, F, R	N
DIR3	Select: N, F, R	N
DIR4	Select: N, F, R	N
ORDER	Select: OFF, Q, QV, V, VQ	OFF
50P32P	0.10-2.00Amp,sec	0.60
Z2F	-640.00-640.00Ohm,sec	4.50

<Filter is Empty>

Setting	Range	Value
Z2R	-640.00-640.00Ohm,sec	5.50
50QFP	0.05-1.00Amp,sec	0.10
50QRP	0.05-1.00Amp,sec	0.05
a2	0.02-0.50	0.10
k2	0.10-1.20	0.20
50GFP	0.05-1.00Amp,sec	0.10
50GRP	0.05-1.00Amp,sec	0.05
a0	0.02-0.50	0.10
Z0F	-640.00-640.00Ohm,sec	15.00
Z0R	-640.00-640.00Ohm,sec	16.00
27P1P	OFF,0.0-300.0V,sec	OFF
27P2P	OFF,0.0-300.0V,sec	OFF
59P1P	OFF,0.0-300.0V,sec	OFF
59P2P	OFF,0.0-300.0V,sec	OFF
59N1P	OFF,0.0-300.0V,sec	OFF
59N2P	OFF,0.0-300.0V,sec	OFF
59QP	OFF,0.0-200.0V,sec	OFF
59V1P	OFF,0.0-300.0V,sec	OFF
27SP	OFF,0.0-300.0V,sec	OFF
59S1P	OFF,0.0-300.0V,sec	OFF
59S2P	OFF,0.0-300.0V,sec	OFF
27PP	OFF,0.0-520.0V,sec	OFF
59PP	OFF,0.0-520.0V,sec	OFF
25VLO	0.0-300.0V,sec	105.0

<Filter is Empty>

Setting	Range	Value
25VHI	0.0-300.0V,sec	130.0
25SF	0.005-0.500Hz	0.042
25ANG1	0-80deg	25
25ANG2	0-80deg	40
SYNCP	Select: VA, VB, VC, 0, 30, 60, 90, 120, 150, 180, 210, 240, 270, 300, 330	VA
TCLOSD	0.00-60.00cyc	3.00
27B81P	20.0-300.0V,sec	80.0
81D1P	OFF,40.10-65.00Hz	OFF
81D1D	2.00-16000.00cyc	6.00
81D2P	OFF,40.10-65.00Hz	OFF
81D2D	2.00-16000.00cyc	2.00
81D3P	OFF,40.10-65.00Hz	OFF
81D3D	2.00-16000.00cyc	2.00
81D4P	OFF,40.10-65.00Hz	OFF
81D4D	2.00-16000.00cyc	2.00
81D5P	OFF,40.10-65.00Hz	OFF
81D5D	2.00-16000.00cyc	2.00
81D6P	OFF,40.10-65.00Hz	OFF
81D6D	2.00-16000.00cyc	2.00
79OI1	0.00-999999.00cyc	250.00
79OI2	0.00-999999.00cyc	0.00
79OI3	0.00-999999.00cyc	0.00
79OI4	0.00-999999.00cyc	0.00

<Filter is Empty>

Setting	Range	Value
79RSD	0.00-999999.00cyc	3000.00
79RSLD	0.00-999999.00cyc	3000.00
79CLSD	OFF,0.00-999999.00cyc	0.00
CLOEND	OFF,0.00-16000.00cyc	OFF
52AEND	OFF,0.00-16000.00cyc	OFF
SOTFD	0.50-16000.00cyc	30.00
Z3RBD	0.00-16000.00cyc	5.00
EBLKD	OFF,0.00-16000.00cyc	10.00
ETDPU	OFF,0.00-16000.00cyc	2.00
EDURD	0.00-16000.00cyc	3.50
EWFC	Select: N, Y	N
GARD1D	0.00-16000.00cyc	1.00
UBDURD	0.25-16000.00cyc	9.00
UBEND	0.00-16000.00cyc	0.50
Z3XPU	0.00-16000.00cyc	2.00
Z3XD	0.00-16000.00cyc	5.00
BTXD	0.00-16000.00cyc	0.00
67P2SD	0.00-60.00cyc	1.00
67N2SD	0.00-60.00cyc	1.00
67G2SD	0.00-60.00cyc	1.00
67Q2SD	0.00-60.00cyc	1.00
DMTC	Select: 5, 10, 15, 30, 60	5
PDEMP	OFF,0.10-3.20Amp,sec	OFF
NDEMP	OFF,0.005-0.160Amp,sec	OFF

<Filter is Empty>

Setting	Range	Value
GDEMP	OFF,0.10-3.20Amp,sec	OFF
QDEMP	OFF,0.10-3.20Amp,sec	OFF
TDURD	4.00-16000.00cyc	20.00
CFD	OFF,0.00-16000.00cyc	60.00
3POD	0.00-60.00cyc	1.50
50LP	OFF,0.05-20.00Amp,sec	0.05
SV1PU	0.00-999999.00cyc	0.00
SV1DO	0.00-999999.00cyc	20.00
SV2PU	0.00-999999.00cyc	0.00
SV2DO	0.00-999999.00cyc	20.00
SV3PU	0.00-999999.00cyc	0.00
SV3DO	0.00-999999.00cyc	0.00
SV4PU	0.00-999999.00cyc	0.00
SV4DO	0.00-999999.00cyc	0.00
SV5PU	0.00-999999.00cyc	0.00
SV5DO	0.00-999999.00cyc	0.00
SV6PU	0.00-999999.00cyc	0.00
SV6DO	0.00-999999.00cyc	0.00
SV7PU	0.00-999999.00cyc	1000.00
SV7DO	0.00-999999.00cyc	0.00
SV8PU	0.00-999999.00cyc	0.00
SV8DO	0.00-999999.00cyc	0.00
SV9PU	0.00-999999.00cyc	0.00
SV9DO	0.00-999999.00cyc	0.00

<Filter is Empty>

Setting	Range	Value
SV10PU	0.00-999999.00cyc	0.00
SV10DO	0.00-999999.00cyc	500.00
SV11PU	0.00-999999.00cyc	0.00
SV11DO	0.00-999999.00cyc	500.00
SV12PU	0.00-999999.00cyc	0.00
SV12DO	0.00-999999.00cyc	0.00
SV13PU	0.00-999999.00cyc	0.00
SV13DO	0.00-999999.00cyc	0.00
SV14PU	0.00-999999.00cyc	0.00
SV14DO	0.00-999999.00cyc	0.00
SV15PU	0.00-999999.00cyc	0.00
SV15DO	0.00-999999.00cyc	0.00
SV16PU	0.00-999999.00cyc	0.00
SV16DO	0.00-999999.00cyc	0.00
OPPH	OFF,1-5	OFF
OPGR	OFF,1-5	OFF
OPLKPH	OFF,1-5	2
OPLKGR	OFF,1-5	2
OPLKSF	OFF,1-5	OFF
HITRPH	OFF,1-5	OFF
HITRGR	OFF,1-5	OFF
HILKPH	OFF,1-5	OFF
HILKGR	OFF,1-5	OFF
ECOLDP	Select: N, Y	N

<Filter is Empty>

Setting	Range	Value
ECOLDG	Select: N, Y	N
RPPH	Select: N, Y	N
RPGR	Select: N, Y	N
RPSEF	Select: N, Y	N
ESEQ	Select: N, Y	N
PRECED	Select: N, Y	N

Group : 4

RID		SEL351R 52C1 S/E CHOCALAN
TID		ALIM. PUENTE MARAMBIO
CTR	1.0-6000.0	1000.0
PTR	1.0-10000.0	100.0
PTRS	1.0-10000.0	100.0
Z1MAG	0.50-2550.00Ohm,sec	32.10
Z1ANG	40.00-90.00	68.86
Z0MAG	0.50-2550.00Ohm,sec	95.70
Z0ANG	40.00-90.00	72.47
LL	0.10-999.00	4.84
E50P	Select: N, 1-6	N
E50N	Select: N, 1-6	3
E50G	Select: N, 1-6	N
E50Q	Select: N, 1-6	N
E51P	Select: N, 1, 2	1

<Filter is Empty>

Setting	Range	Value
E51N	Select: N, 1, 2	1
E51G	Select: N, 1, 2	N
E51Q	Select: N, Y	N
E32	Select: N, Y, AUTO	N
ELOAD	Select: N, Y	N
ESOTF	Select: N, Y	N
EVOLT	Select: N, Y	Y
E25	Select: N, Y	N
EFLOC	Select: N, Y	N
ELOP	Select: N, Y, Y1	N
ECOMM	Select: N, DCB, POTT, DCUB1, DCUB2	N
E81	Select: N, 1-6	N
E79	Select: N, 1-4	1
ESV	Select: N, 1-16	16
EDEM	Select: THM, ROL	THM
50P1P	OFF,0.05-20.00Amp,sec	OFF
50P2P	OFF,0.05-20.00Amp,sec	OFF
50P3P	OFF,0.05-20.00Amp,sec	OFF
50P4P	OFF,0.05-20.00Amp,sec	OFF
50P5P	OFF,0.05-20.00Amp,sec	OFF
50P6P	OFF,0.05-20.00Amp,sec	OFF
67P1D	0.00-16000.00cyc	0.00
67P2D	0.00-16000.00cyc	0.00
67P3D	0.00-16000.00cyc	0.00

<Filter is Empty>

Setting	Range	Value
67P4D	0.00-16000.00cyc	0.00
50PP1P	OFF,0.20-34.00Amp,sec	OFF
50PP2P	OFF,0.20-34.00Amp,sec	OFF
50PP3P	OFF,0.20-34.00Amp,sec	OFF
50PP4P	OFF,0.20-34.00Amp,sec	OFF
50N1P	OFF,0.005-1.500Amp,sec	OFF
50N2P	OFF,0.005-1.500Amp,sec	OFF
50N3P	OFF,0.005-1.500Amp,sec	0.013
50N4P	OFF,0.005-1.500Amp,sec	OFF
50N5P	OFF,0.005-1.500Amp,sec	OFF
50N6P	OFF,0.005-1.500Amp,sec	OFF
67N1D	0.00-16000.00cyc	0.00
67N2D	0.00-16000.00cyc	0.00
67N3D	0.00-16000.00cyc	4500.00
67N4D	0.00-16000.00cyc	0.00
50G1P	OFF,0.05-20.00Amp,sec	OFF
50G2P	OFF,0.05-20.00Amp,sec	OFF
50G3P	OFF,0.05-20.00Amp,sec	OFF
50G4P	OFF,0.05-20.00Amp,sec	OFF
50G5P	OFF,0.05-20.00Amp,sec	OFF
50G6P	OFF,0.05-20.00Amp,sec	OFF
67G1D	0.00-16000.00cyc	0.00
67G2D	0.00-16000.00cyc	0.00
67G3D	0.00-16000.00cyc	0.00

<Filter is Empty>

Setting	Range	Value
67G4D	0.00-16000.00cyc	0.00
50Q1P	OFF,0.05-20.00Amp,sec	OFF
50Q2P	OFF,0.05-20.00Amp,sec	OFF
50Q3P	OFF,0.05-20.00Amp,sec	OFF
50Q4P	OFF,0.05-20.00Amp,sec	OFF
50Q5P	OFF,0.05-20.00Amp,sec	OFF
50Q6P	OFF,0.05-20.00Amp,sec	OFF
67Q1D	0.00-16000.00cyc	0.00
67Q2D	0.00-16000.00cyc	0.00
67Q3D	0.00-16000.00cyc	0.00
67Q4D	0.00-16000.00cyc	0.00
51P1P	OFF,0.05-3.20Amp,sec	0.45
51P1C		133
51P1TD	0.10-2.00	0.60
51P1RS	Select: N, Y	N
51P1CT	0.00-60.00cyc	0.00
51P1MR	0.00-60.00cyc	0.00
51P2P	OFF,0.05-3.20Amp,sec	OFF
51P2C		C
51P2TD	0.10-2.00	1.00
51P2RS	Select: N, Y	N
51P2CT	0.00-60.00cyc	0.00
51P2MR	0.00-60.00cyc	0.00
51N1P	OFF,0.005-0.160Amp,sec	0.060

<Filter is Empty>

Setting	Range	Value
51N1C		140
51N1TD	0.10-2.00	1.00
51N1RS	Select: N, Y	N
51N1CT	0.00-60.00cyc	0.00
51N1MR	0.00-60.00cyc	0.00
51N2P	OFF,0.005-0.160Amp,sec	OFF
51N2C		13
51N2TD	0.10-2.00	1.00
51N2RS	Select: N, Y	N
51N2CT	0.00-60.00cyc	0.00
51N2MR	0.00-60.00cyc	0.00
51G1P	OFF,0.05-3.20Amp,sec	OFF
51G1C		1
51G1TD	0.10-2.00	1.00
51G1RS	Select: N, Y	N
51G1CT	0.00-60.00cyc	0.00
51G1MR	0.00-60.00cyc	0.00
51G2P	OFF,0.05-3.20Amp,sec	OFF
51G2C		13
51G2TD	0.10-2.00	1.00
51G2RS	Select: N, Y	N
51G2CT	0.00-60.00cyc	0.00
51G2MR	0.00-60.00cyc	0.00
51QP	OFF,0.05-3.20Amp,sec	OFF

<Filter is Empty>

Setting	Range	Value
51QC		U3
51QTD	0.50-15.00	3.00
51QRS	Select: N, Y	N
51QCT	0.00-60.00cyc	0.00
51QMR	0.00-60.00cyc	0.00
ZLF	0.50-640.00Ohm,sec	32.50
ZLR	0.50-640.00Ohm,sec	32.50
PLAF	-90-90deg	30
NLAF	-90-90deg	-30
PLAR	90-270deg	150
NLAR	90-270deg	210
DIR1	Select: N, F, R	N
DIR2	Select: N, F, R	N
DIR3	Select: N, F, R	N
DIR4	Select: N, F, R	N
ORDER	Select: OFF, Q, QV, V, VQ	OFF
50P32P	0.10-2.00Amp,sec	0.60
Z2F	-640.00-640.00Ohm,sec	4.50
Z2R	-640.00-640.00Ohm,sec	5.50
50QFP	0.05-1.00Amp,sec	0.10
50QRP	0.05-1.00Amp,sec	0.05
a2	0.02-0.50	0.10
k2	0.10-1.20	0.20
50GFP	0.05-1.00Amp,sec	0.10

<Filter is Empty>

Setting	Range	Value
50GRP	0.05-1.00Amp,sec	0.05
a0	0.02-0.50	0.10
Z0F	-640.00-640.00Ohm,sec	15.00
Z0R	-640.00-640.00Ohm,sec	16.00
27P1P	OFF,0.0-300.0V,sec	OFF
27P2P	OFF,0.0-300.0V,sec	OFF
59P1P	OFF,0.0-300.0V,sec	OFF
59P2P	OFF,0.0-300.0V,sec	OFF
59N1P	OFF,0.0-300.0V,sec	OFF
59N2P	OFF,0.0-300.0V,sec	OFF
59QP	OFF,0.0-200.0V,sec	OFF
59V1P	OFF,0.0-300.0V,sec	OFF
27SP	OFF,0.0-300.0V,sec	OFF
59S1P	OFF,0.0-300.0V,sec	OFF
59S2P	OFF,0.0-300.0V,sec	OFF
27PP	OFF,0.0-520.0V,sec	OFF
59PP	OFF,0.0-520.0V,sec	OFF
25VLO	0.0-300.0V,sec	105.0
25VHI	0.0-300.0V,sec	130.0
25SF	0.005-0.500Hz	0.042
25ANG1	0-80deg	25
25ANG2	0-80deg	40
SYNCP	Select: VA, VB, VC, 0, 30, 60, 90, 120, 150, 180, 210, 240, 270, 300, 330	VA

<Filter is Empty>

Setting	Range	Value
TCLOSD	0.00-60.00cyc	3.00
27B81P	20.0-300.0V,sec	80.0
81D1P	OFF,40.10-65.00Hz	OFF
81D1D	2.00-16000.00cyc	6.00
81D2P	OFF,40.10-65.00Hz	OFF
81D2D	2.00-16000.00cyc	2.00
81D3P	OFF,40.10-65.00Hz	OFF
81D3D	2.00-16000.00cyc	2.00
81D4P	OFF,40.10-65.00Hz	OFF
81D4D	2.00-16000.00cyc	2.00
81D5P	OFF,40.10-65.00Hz	OFF
81D5D	2.00-16000.00cyc	2.00
81D6P	OFF,40.10-65.00Hz	OFF
81D6D	2.00-16000.00cyc	2.00
79OI1	0.00-999999.00cyc	250.00
79OI2	0.00-999999.00cyc	0.00
79OI3	0.00-999999.00cyc	0.00
79OI4	0.00-999999.00cyc	0.00
79RSD	0.00-999999.00cyc	3000.00
79RSLD	0.00-999999.00cyc	3000.00
79CLSD	OFF,0.00-999999.00cyc	0.00
CLOEND	OFF,0.00-16000.00cyc	OFF
52AEND	OFF,0.00-16000.00cyc	OFF
SOTFD	0.50-16000.00cyc	30.00

<Filter is Empty>

Setting	Range	Value
Z3RBD	0.00-16000.00cyc	5.00
EBLKD	OFF,0.00-16000.00cyc	10.00
ETDPU	OFF,0.00-16000.00cyc	2.00
EDURD	0.00-16000.00cyc	3.50
EWFC	Select: N, Y	N
GARD1D	0.00-16000.00cyc	1.00
UBDURD	0.25-16000.00cyc	9.00
UBEND	0.00-16000.00cyc	0.50
Z3XPU	0.00-16000.00cyc	2.00
Z3XD	0.00-16000.00cyc	5.00
BTXD	0.00-16000.00cyc	0.00
67P2SD	0.00-60.00cyc	1.00
67N2SD	0.00-60.00cyc	1.00
67G2SD	0.00-60.00cyc	1.00
67Q2SD	0.00-60.00cyc	1.00
DMTC	Select: 5, 10, 15, 30, 60	5
PDEMP	OFF,0.10-3.20Amp,sec	OFF
NDEMP	OFF,0.005-0.160Amp,sec	OFF
GDEMP	OFF,0.10-3.20Amp,sec	OFF
QDEMP	OFF,0.10-3.20Amp,sec	OFF
TDURD	4.00-16000.00cyc	20.00
CFD	OFF,0.00-16000.00cyc	60.00
3POD	0.00-60.00cyc	1.50
50LP	OFF,0.05-20.00Amp,sec	0.05

<Filter is Empty>

Setting	Range	Value
SV1PU	0.00-999999.00cyc	0.00
SV1DO	0.00-999999.00cyc	20.00
SV2PU	0.00-999999.00cyc	0.00
SV2DO	0.00-999999.00cyc	20.00
SV3PU	0.00-999999.00cyc	0.00
SV3DO	0.00-999999.00cyc	0.00
SV4PU	0.00-999999.00cyc	0.00
SV4DO	0.00-999999.00cyc	0.00
SV5PU	0.00-999999.00cyc	0.00
SV5DO	0.00-999999.00cyc	0.00
SV6PU	0.00-999999.00cyc	0.00
SV6DO	0.00-999999.00cyc	0.00
SV7PU	0.00-999999.00cyc	1000.00
SV7DO	0.00-999999.00cyc	0.00
SV8PU	0.00-999999.00cyc	0.00
SV8DO	0.00-999999.00cyc	0.00
SV9PU	0.00-999999.00cyc	0.00
SV9DO	0.00-999999.00cyc	0.00
SV10PU	0.00-999999.00cyc	0.00
SV10DO	0.00-999999.00cyc	500.00
SV11PU	0.00-999999.00cyc	0.00
SV11DO	0.00-999999.00cyc	500.00
SV12PU	0.00-999999.00cyc	0.00
SV12DO	0.00-999999.00cyc	0.00

<Filter is Empty>

Setting	Range	Value
SV13PU	0.00-999999.00cyc	0.00
SV13DO	0.00-999999.00cyc	0.00
SV14PU	0.00-999999.00cyc	0.00
SV14DO	0.00-999999.00cyc	0.00
SV15PU	0.00-999999.00cyc	0.00
SV15DO	0.00-999999.00cyc	0.00
SV16PU	0.00-999999.00cyc	0.00
SV16DO	0.00-999999.00cyc	0.00
OPPH	OFF,1-5	OFF
OPGR	OFF,1-5	OFF
OPLKPH	OFF,1-5	2
OPLKGR	OFF,1-5	2
OPLKSF	OFF,1-5	OFF
HITRPH	OFF,1-5	OFF
HITRGR	OFF,1-5	OFF
HILKPH	OFF,1-5	OFF
HILKGR	OFF,1-5	OFF
ECOLDP	Select: N, Y	N
ECOLDG	Select: N, Y	N
RPPH	Select: N, Y	N
RPGR	Select: N, Y	N
RPSEF	Select: N, Y	N
ESEQ	Select: N, Y	N
PRECED	Select: N, Y	N

<Filter is Empty>

Setting	Range	Value
<input type="checkbox"/> Group : 5		
RID		SEL351R 52C1 S/E CHOCALAN
TID		ALIM. PUENTE MARAMBIO
CTR	1.0-6000.0	1000.0
PTR	1.0-10000.0	100.0
PTRS	1.0-10000.0	100.0
Z1MAG	0.50-2550.00Ohm,sec	32.10
Z1ANG	40.00-90.00	68.86
Z0MAG	0.50-2550.00Ohm,sec	95.70
Z0ANG	40.00-90.00	72.47
LL	0.10-999.00	4.84
E50P	Select: N, 1-6	N
E50N	Select: N, 1-6	3
E50G	Select: N, 1-6	N
E50Q	Select: N, 1-6	N
E51P	Select: N, 1, 2	1
E51N	Select: N, 1, 2	1
E51G	Select: N, 1, 2	N
E51Q	Select: N, Y	N
E32	Select: N, Y, AUTO	N
ELOAD	Select: N, Y	N
ESOTF	Select: N, Y	N

<Filter is Empty>

Setting	Range	Value
EVOLT	Select: N, Y	Y
E25	Select: N, Y	N
EFLOC	Select: N, Y	N
ELOP	Select: N, Y, Y1	N
ECOMM	Select: N, DCB, POTT, DCUB1, DCUB2	N
E81	Select: N, 1-6	N
E79	Select: N, 1-4	1
ESV	Select: N, 1-16	16
EDEM	Select: THM, ROL	THM
50P1P	OFF,0.05-20.00Amp,sec	OFF
50P2P	OFF,0.05-20.00Amp,sec	OFF
50P3P	OFF,0.05-20.00Amp,sec	OFF
50P4P	OFF,0.05-20.00Amp,sec	OFF
50P5P	OFF,0.05-20.00Amp,sec	OFF
50P6P	OFF,0.05-20.00Amp,sec	OFF
67P1D	0.00-16000.00cyc	0.00
67P2D	0.00-16000.00cyc	0.00
67P3D	0.00-16000.00cyc	0.00
67P4D	0.00-16000.00cyc	0.00
50PP1P	OFF,0.20-34.00Amp,sec	OFF
50PP2P	OFF,0.20-34.00Amp,sec	OFF
50PP3P	OFF,0.20-34.00Amp,sec	OFF
50PP4P	OFF,0.20-34.00Amp,sec	OFF
50N1P	OFF,0.005-1.500Amp,sec	OFF

<Filter is Empty>

Setting	Range	Value
50N2P	OFF,0.005-1.500Amp,sec	OFF
50N3P	OFF,0.005-1.500Amp,sec	0.013
50N4P	OFF,0.005-1.500Amp,sec	OFF
50N5P	OFF,0.005-1.500Amp,sec	OFF
50N6P	OFF,0.005-1.500Amp,sec	OFF
67N1D	0.00-16000.00cyc	0.00
67N2D	0.00-16000.00cyc	0.00
67N3D	0.00-16000.00cyc	4500.00
67N4D	0.00-16000.00cyc	0.00
50G1P	OFF,0.05-20.00Amp,sec	OFF
50G2P	OFF,0.05-20.00Amp,sec	OFF
50G3P	OFF,0.05-20.00Amp,sec	OFF
50G4P	OFF,0.05-20.00Amp,sec	OFF
50G5P	OFF,0.05-20.00Amp,sec	OFF
50G6P	OFF,0.05-20.00Amp,sec	OFF
67G1D	0.00-16000.00cyc	0.00
67G2D	0.00-16000.00cyc	0.00
67G3D	0.00-16000.00cyc	0.00
67G4D	0.00-16000.00cyc	0.00
50Q1P	OFF,0.05-20.00Amp,sec	OFF
50Q2P	OFF,0.05-20.00Amp,sec	OFF
50Q3P	OFF,0.05-20.00Amp,sec	OFF
50Q4P	OFF,0.05-20.00Amp,sec	OFF
50Q5P	OFF,0.05-20.00Amp,sec	OFF

<Filter is Empty>

Setting	Range	Value
50Q6P	OFF,0.05-20.00Amp,sec	OFF
67Q1D	0.00-16000.00cyc	0.00
67Q2D	0.00-16000.00cyc	0.00
67Q3D	0.00-16000.00cyc	0.00
67Q4D	0.00-16000.00cyc	0.00
51P1P	OFF,0.05-3.20Amp,sec	0.45
51P1C		133
51P1TD	0.10-2.00	0.60
51P1RS	Select: N, Y	N
51P1CT	0.00-60.00cyc	0.00
51P1MR	0.00-60.00cyc	0.00
51P2P	OFF,0.05-3.20Amp,sec	OFF
51P2C		C
51P2TD	0.10-2.00	1.00
51P2RS	Select: N, Y	N
51P2CT	0.00-60.00cyc	0.00
51P2MR	0.00-60.00cyc	0.00
51N1P	OFF,0.005-0.160Amp,sec	0.060
51N1C		140
51N1TD	0.10-2.00	1.00
51N1RS	Select: N, Y	N
51N1CT	0.00-60.00cyc	0.00
51N1MR	0.00-60.00cyc	0.00
51N2P	OFF,0.005-0.160Amp,sec	OFF

<Filter is Empty>

Setting	Range	Value
51N2C		13
51N2TD	0.10-2.00	1.00
51N2RS	Select: N, Y	N
51N2CT	0.00-60.00cyc	0.00
51N2MR	0.00-60.00cyc	0.00
51G1P	OFF,0.05-3.20Amp,sec	OFF
51G1C		1
51G1TD	0.10-2.00	1.00
51G1RS	Select: N, Y	N
51G1CT	0.00-60.00cyc	0.00
51G1MR	0.00-60.00cyc	0.00
51G2P	OFF,0.05-3.20Amp,sec	OFF
51G2C		13
51G2TD	0.10-2.00	1.00
51G2RS	Select: N, Y	N
51G2CT	0.00-60.00cyc	0.00
51G2MR	0.00-60.00cyc	0.00
51QP	OFF,0.05-3.20Amp,sec	OFF
51QC		U3
51QTD	0.50-15.00	3.00
51QRS	Select: N, Y	N
51QCT	0.00-60.00cyc	0.00
51QMR	0.00-60.00cyc	0.00
ZLF	0.50-640.00Ohm,sec	32.50

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Setting	Range	Value
ZLR	0.50-640.00Ohm,sec	32.50
PLAF	-90-90deg	30
NLAF	-90-90deg	-30
PLAR	90-270deg	150
NLAR	90-270deg	210
DIR1	Select: N, F, R	N
DIR2	Select: N, F, R	N
DIR3	Select: N, F, R	N
DIR4	Select: N, F, R	N
ORDER	Select: OFF, Q, QV, V, VQ	OFF
50P32P	0.10-2.00Amp,sec	0.60
Z2F	-640.00-640.00Ohm,sec	4.50
Z2R	-640.00-640.00Ohm,sec	5.50
50QFP	0.05-1.00Amp,sec	0.10
50QRP	0.05-1.00Amp,sec	0.05
a2	0.02-0.50	0.10
k2	0.10-1.20	0.20
50GFP	0.05-1.00Amp,sec	0.10
50GRP	0.05-1.00Amp,sec	0.05
a0	0.02-0.50	0.10
Z0F	-640.00-640.00Ohm,sec	15.00
Z0R	-640.00-640.00Ohm,sec	16.00
27P1P	OFF,0.0-300.0V,sec	OFF
27P2P	OFF,0.0-300.0V,sec	OFF

<Filter is Empty>

Setting	Range	Value
59P1P	OFF,0.0-300.0V,sec	OFF
59P2P	OFF,0.0-300.0V,sec	OFF
59N1P	OFF,0.0-300.0V,sec	OFF
59N2P	OFF,0.0-300.0V,sec	OFF
59QP	OFF,0.0-200.0V,sec	OFF
59V1P	OFF,0.0-300.0V,sec	OFF
27SP	OFF,0.0-300.0V,sec	OFF
59S1P	OFF,0.0-300.0V,sec	OFF
59S2P	OFF,0.0-300.0V,sec	OFF
27PP	OFF,0.0-520.0V,sec	OFF
59PP	OFF,0.0-520.0V,sec	OFF
25VLO	0.0-300.0V,sec	105.0
25VHI	0.0-300.0V,sec	130.0
25SF	0.005-0.500Hz	0.042
25ANG1	0-80deg	25
25ANG2	0-80deg	40
SYNCP	Select: VA, VB, VC, 0, 30, 60, 90, 120, 150, 180, 210, 240, 270, 300, 330	VA
TCLOSD	0.00-60.00cyc	3.00
27B81P	20.0-300.0V,sec	80.0
81D1P	OFF,40.10-65.00Hz	OFF
81D1D	2.00-16000.00cyc	6.00
81D2P	OFF,40.10-65.00Hz	OFF
81D2D	2.00-16000.00cyc	2.00

<Filter is Empty>

Setting	Range	Value
81D3P	OFF,40.10-65.00Hz	OFF
81D3D	2.00-16000.00cyc	2.00
81D4P	OFF,40.10-65.00Hz	OFF
81D4D	2.00-16000.00cyc	2.00
81D5P	OFF,40.10-65.00Hz	OFF
81D5D	2.00-16000.00cyc	2.00
81D6P	OFF,40.10-65.00Hz	OFF
81D6D	2.00-16000.00cyc	2.00
79OI1	0.00-999999.00cyc	250.00
79OI2	0.00-999999.00cyc	0.00
79OI3	0.00-999999.00cyc	0.00
79OI4	0.00-999999.00cyc	0.00
79RSD	0.00-999999.00cyc	3000.00
79RSLD	0.00-999999.00cyc	3000.00
79CLSD	OFF,0.00-999999.00cyc	0.00
CLOEND	OFF,0.00-16000.00cyc	OFF
52AEND	OFF,0.00-16000.00cyc	OFF
SOTFD	0.50-16000.00cyc	30.00
Z3RBD	0.00-16000.00cyc	5.00
EBLKD	OFF,0.00-16000.00cyc	10.00
ETDPU	OFF,0.00-16000.00cyc	2.00
EDURD	0.00-16000.00cyc	3.50
EWFC	Select: N, Y	N
GARD1D	0.00-16000.00cyc	1.00

<Filter is Empty>

Setting	Range	Value
UBDURD	0.25-16000.00cyc	9.00
UBEND	0.00-16000.00cyc	0.50
Z3XPU	0.00-16000.00cyc	2.00
Z3XD	0.00-16000.00cyc	5.00
BTXD	0.00-16000.00cyc	0.00
67P2SD	0.00-60.00cyc	1.00
67N2SD	0.00-60.00cyc	1.00
67G2SD	0.00-60.00cyc	1.00
67Q2SD	0.00-60.00cyc	1.00
DMTC	Select: 5, 10, 15, 30, 60	5
PDEMP	OFF,0.10-3.20Amp,sec	OFF
NDEMP	OFF,0.005-0.160Amp,sec	OFF
GDEMP	OFF,0.10-3.20Amp,sec	OFF
QDEMP	OFF,0.10-3.20Amp,sec	OFF
TDURD	4.00-16000.00cyc	20.00
CFD	OFF,0.00-16000.00cyc	60.00
3POD	0.00-60.00cyc	1.50
50LP	OFF,0.05-20.00Amp,sec	0.05
SV1PU	0.00-999999.00cyc	0.00
SV1DO	0.00-999999.00cyc	20.00
SV2PU	0.00-999999.00cyc	0.00
SV2DO	0.00-999999.00cyc	20.00
SV3PU	0.00-999999.00cyc	0.00
SV3DO	0.00-999999.00cyc	0.00

<Filter is Empty>

Setting	Range	Value
SV4PU	0.00-999999.00cyc	0.00
SV4DO	0.00-999999.00cyc	0.00
SV5PU	0.00-999999.00cyc	0.00
SV5DO	0.00-999999.00cyc	0.00
SV6PU	0.00-999999.00cyc	0.00
SV6DO	0.00-999999.00cyc	0.00
SV7PU	0.00-999999.00cyc	1000.00
SV7DO	0.00-999999.00cyc	0.00
SV8PU	0.00-999999.00cyc	0.00
SV8DO	0.00-999999.00cyc	0.00
SV9PU	0.00-999999.00cyc	0.00
SV9DO	0.00-999999.00cyc	0.00
SV10PU	0.00-999999.00cyc	0.00
SV10DO	0.00-999999.00cyc	500.00
SV11PU	0.00-999999.00cyc	0.00
SV11DO	0.00-999999.00cyc	500.00
SV12PU	0.00-999999.00cyc	0.00
SV12DO	0.00-999999.00cyc	0.00
SV13PU	0.00-999999.00cyc	0.00
SV13DO	0.00-999999.00cyc	0.00
SV14PU	0.00-999999.00cyc	0.00
SV14DO	0.00-999999.00cyc	0.00
SV15PU	0.00-999999.00cyc	0.00
SV15DO	0.00-999999.00cyc	0.00

<Filter is Empty>

Setting	Range	Value
SV16PU	0.00-999999.00cyc	0.00
SV16DO	0.00-999999.00cyc	0.00
OPPH	OFF,1-5	OFF
OPGR	OFF,1-5	OFF
OPLKPH	OFF,1-5	2
OPLKGR	OFF,1-5	2
OPLKSF	OFF,1-5	OFF
HITRPH	OFF,1-5	OFF
HITRGR	OFF,1-5	OFF
HILKPH	OFF,1-5	OFF
HILKGR	OFF,1-5	OFF
ECOLDP	Select: N, Y	N
ECOLDG	Select: N, Y	N
RPPH	Select: N, Y	N
RPGR	Select: N, Y	N
RPSEF	Select: N, Y	N
ESEQ	Select: N, Y	N
PRECED	Select: N, Y	N

Group : 6

RID		SEL351R 52C1 S/E CHOCALAN
TID		ALIM. PUENTE MARAMBIO
CTR	1.0-6000.0	1000.0

<Filter is Empty>

Setting	Range	Value
PTR	1.0-10000.0	100.0
PTRS	1.0-10000.0	100.0
Z1MAG	0.50-2550.00Ohm,sec	32.10
Z1ANG	40.00-90.00	68.86
Z0MAG	0.50-2550.00Ohm,sec	95.70
Z0ANG	40.00-90.00	72.47
LL	0.10-999.00	4.84
E50P	Select: N, 1-6	N
E50N	Select: N, 1-6	3
E50G	Select: N, 1-6	N
E50Q	Select: N, 1-6	N
E51P	Select: N, 1, 2	1
E51N	Select: N, 1, 2	1
E51G	Select: N, 1, 2	N
E51Q	Select: N, Y	N
E32	Select: N, Y, AUTO	N
ELOAD	Select: N, Y	N
ESOTF	Select: N, Y	N
EVOLT	Select: N, Y	Y
E25	Select: N, Y	N
EFLOC	Select: N, Y	N
ELOP	Select: N, Y, Y1	N
ECOMM	Select: N, DCB, POTT, DCUB1, DCUB2	N
E81	Select: N, 1-6	N

<Filter is Empty>

Setting	Range	Value
E79	Select: N, 1-4	1
ESV	Select: N, 1-16	16
EDEM	Select: THM, ROL	THM
50P1P	OFF,0.05-20.00Amp,sec	OFF
50P2P	OFF,0.05-20.00Amp,sec	OFF
50P3P	OFF,0.05-20.00Amp,sec	OFF
50P4P	OFF,0.05-20.00Amp,sec	OFF
50P5P	OFF,0.05-20.00Amp,sec	OFF
50P6P	OFF,0.05-20.00Amp,sec	OFF
67P1D	0.00-16000.00cyc	0.00
67P2D	0.00-16000.00cyc	0.00
67P3D	0.00-16000.00cyc	0.00
67P4D	0.00-16000.00cyc	0.00
50PP1P	OFF,0.20-34.00Amp,sec	OFF
50PP2P	OFF,0.20-34.00Amp,sec	OFF
50PP3P	OFF,0.20-34.00Amp,sec	OFF
50PP4P	OFF,0.20-34.00Amp,sec	OFF
50N1P	OFF,0.005-1.500Amp,sec	OFF
50N2P	OFF,0.005-1.500Amp,sec	OFF
50N3P	OFF,0.005-1.500Amp,sec	0.013
50N4P	OFF,0.005-1.500Amp,sec	OFF
50N5P	OFF,0.005-1.500Amp,sec	OFF
50N6P	OFF,0.005-1.500Amp,sec	OFF
67N1D	0.00-16000.00cyc	0.00

<Filter is Empty>

Setting	Range	Value
67N2D	0.00-16000.00cyc	0.00
67N3D	0.00-16000.00cyc	4500.00
67N4D	0.00-16000.00cyc	0.00
50G1P	OFF,0.05-20.00Amp,sec	OFF
50G2P	OFF,0.05-20.00Amp,sec	OFF
50G3P	OFF,0.05-20.00Amp,sec	OFF
50G4P	OFF,0.05-20.00Amp,sec	OFF
50G5P	OFF,0.05-20.00Amp,sec	OFF
50G6P	OFF,0.05-20.00Amp,sec	OFF
67G1D	0.00-16000.00cyc	0.00
67G2D	0.00-16000.00cyc	0.00
67G3D	0.00-16000.00cyc	0.00
67G4D	0.00-16000.00cyc	0.00
50Q1P	OFF,0.05-20.00Amp,sec	OFF
50Q2P	OFF,0.05-20.00Amp,sec	OFF
50Q3P	OFF,0.05-20.00Amp,sec	OFF
50Q4P	OFF,0.05-20.00Amp,sec	OFF
50Q5P	OFF,0.05-20.00Amp,sec	OFF
50Q6P	OFF,0.05-20.00Amp,sec	OFF
67Q1D	0.00-16000.00cyc	0.00
67Q2D	0.00-16000.00cyc	0.00
67Q3D	0.00-16000.00cyc	0.00
67Q4D	0.00-16000.00cyc	0.00
51P1P	OFF,0.05-3.20Amp,sec	0.45

<Filter is Empty>

Setting	Range	Value
51P1C		133
51P1TD	0.10-2.00	0.60
51P1RS	Select: N, Y	N
51P1CT	0.00-60.00cyc	0.00
51P1MR	0.00-60.00cyc	0.00
51P2P	OFF,0.05-3.20Amp,sec	OFF
51P2C		C
51P2TD	0.10-2.00	1.00
51P2RS	Select: N, Y	N
51P2CT	0.00-60.00cyc	0.00
51P2MR	0.00-60.00cyc	0.00
51N1P	OFF,0.005-0.160Amp,sec	0.060
51N1C		140
51N1TD	0.10-2.00	1.00
51N1RS	Select: N, Y	N
51N1CT	0.00-60.00cyc	0.00
51N1MR	0.00-60.00cyc	0.00
51N2P	OFF,0.005-0.160Amp,sec	OFF
51N2C		13
51N2TD	0.10-2.00	1.00
51N2RS	Select: N, Y	N
51N2CT	0.00-60.00cyc	0.00
51N2MR	0.00-60.00cyc	0.00
51G1P	OFF,0.05-3.20Amp,sec	OFF

<Filter is Empty>

Setting	Range	Value
51G1C		1
51G1TD	0.10-2.00	1.00
51G1RS	Select: N, Y	N
51G1CT	0.00-60.00cyc	0.00
51G1MR	0.00-60.00cyc	0.00
51G2P	OFF,0.05-3.20Amp,sec	OFF
51G2C		13
51G2TD	0.10-2.00	1.00
51G2RS	Select: N, Y	N
51G2CT	0.00-60.00cyc	0.00
51G2MR	0.00-60.00cyc	0.00
51QP	OFF,0.05-3.20Amp,sec	OFF
51QC		U3
51QTD	0.50-15.00	3.00
51QRS	Select: N, Y	N
51QCT	0.00-60.00cyc	0.00
51QMR	0.00-60.00cyc	0.00
ZLF	0.50-640.00Ohm,sec	32.50
ZLR	0.50-640.00Ohm,sec	32.50
PLAF	-90-90deg	30
NLAF	-90-90deg	-30
PLAR	90-270deg	150
NLAR	90-270deg	210
DIR1	Select: N, F, R	N

<Filter is Empty>

Setting	Range	Value
DIR2	Select: N, F, R	N
DIR3	Select: N, F, R	N
DIR4	Select: N, F, R	N
ORDER	Select: OFF, Q, QV, V, VQ	OFF
50P32P	0.10-2.00Amp,sec	0.60
Z2F	-640.00-640.00Ohm,sec	4.50
Z2R	-640.00-640.00Ohm,sec	5.50
50QFP	0.05-1.00Amp,sec	0.10
50QRP	0.05-1.00Amp,sec	0.05
a2	0.02-0.50	0.10
k2	0.10-1.20	0.20
50GFP	0.05-1.00Amp,sec	0.10
50GRP	0.05-1.00Amp,sec	0.05
a0	0.02-0.50	0.10
Z0F	-640.00-640.00Ohm,sec	15.00
Z0R	-640.00-640.00Ohm,sec	16.00
27P1P	OFF,0.0-300.0V,sec	OFF
27P2P	OFF,0.0-300.0V,sec	OFF
59P1P	OFF,0.0-300.0V,sec	OFF
59P2P	OFF,0.0-300.0V,sec	OFF
59N1P	OFF,0.0-300.0V,sec	OFF
59N2P	OFF,0.0-300.0V,sec	OFF
59QP	OFF,0.0-200.0V,sec	OFF
59V1P	OFF,0.0-300.0V,sec	OFF

<Filter is Empty>

Setting	Range	Value
27SP	OFF,0.0-300.0V,sec	OFF
59S1P	OFF,0.0-300.0V,sec	OFF
59S2P	OFF,0.0-300.0V,sec	OFF
27PP	OFF,0.0-520.0V,sec	OFF
59PP	OFF,0.0-520.0V,sec	OFF
25VLO	0.0-300.0V,sec	105.0
25VHI	0.0-300.0V,sec	130.0
25SF	0.005-0.500Hz	0.042
25ANG1	0-80deg	25
25ANG2	0-80deg	40
SYNCP	Select: VA, VB, VC, 0, 30, 60, 90, 120, 150, 180, 210, 240, 270, 300, 330	VA
TCLOSD	0.00-60.00cyc	3.00
27B81P	20.0-300.0V,sec	80.0
81D1P	OFF,40.10-65.00Hz	OFF
81D1D	2.00-16000.00cyc	6.00
81D2P	OFF,40.10-65.00Hz	OFF
81D2D	2.00-16000.00cyc	2.00
81D3P	OFF,40.10-65.00Hz	OFF
81D3D	2.00-16000.00cyc	2.00
81D4P	OFF,40.10-65.00Hz	OFF
81D4D	2.00-16000.00cyc	2.00
81D5P	OFF,40.10-65.00Hz	OFF
81D5D	2.00-16000.00cyc	2.00

<Filter is Empty>

Setting	Range	Value
81D6P	OFF,40.10-65.00Hz	OFF
81D6D	2.00-16000.00cyc	2.00
79OI1	0.00-999999.00cyc	250.00
79OI2	0.00-999999.00cyc	0.00
79OI3	0.00-999999.00cyc	0.00
79OI4	0.00-999999.00cyc	0.00
79RSD	0.00-999999.00cyc	3000.00
79RSLD	0.00-999999.00cyc	3000.00
79CLSD	OFF,0.00-999999.00cyc	0.00
CLOEND	OFF,0.00-16000.00cyc	OFF
52AEND	OFF,0.00-16000.00cyc	OFF
SOTFD	0.50-16000.00cyc	30.00
Z3RBD	0.00-16000.00cyc	5.00
EBLKD	OFF,0.00-16000.00cyc	10.00
ETDPU	OFF,0.00-16000.00cyc	2.00
EDURD	0.00-16000.00cyc	3.50
EWFC	Select: N, Y	N
GARD1D	0.00-16000.00cyc	1.00
UBDURD	0.25-16000.00cyc	9.00
UBEND	0.00-16000.00cyc	0.50
Z3XPU	0.00-16000.00cyc	2.00
Z3XD	0.00-16000.00cyc	5.00
BTXD	0.00-16000.00cyc	0.00
67P2SD	0.00-60.00cyc	1.00

<Filter is Empty>

Setting	Range	Value
67N2SD	0.00-60.00cyc	1.00
67G2SD	0.00-60.00cyc	1.00
67Q2SD	0.00-60.00cyc	1.00
DMTC	Select: 5, 10, 15, 30, 60	5
PDEMP	OFF,0.10-3.20Amp,sec	OFF
NDEMP	OFF,0.005-0.160Amp,sec	OFF
GDEMP	OFF,0.10-3.20Amp,sec	OFF
QDEMP	OFF,0.10-3.20Amp,sec	OFF
TDURD	4.00-16000.00cyc	20.00
CFD	OFF,0.00-16000.00cyc	60.00
3POD	0.00-60.00cyc	1.50
50LP	OFF,0.05-20.00Amp,sec	0.05
SV1PU	0.00-999999.00cyc	0.00
SV1DO	0.00-999999.00cyc	20.00
SV2PU	0.00-999999.00cyc	0.00
SV2DO	0.00-999999.00cyc	20.00
SV3PU	0.00-999999.00cyc	0.00
SV3DO	0.00-999999.00cyc	0.00
SV4PU	0.00-999999.00cyc	0.00
SV4DO	0.00-999999.00cyc	0.00
SV5PU	0.00-999999.00cyc	0.00
SV5DO	0.00-999999.00cyc	0.00
SV6PU	0.00-999999.00cyc	0.00
SV6DO	0.00-999999.00cyc	0.00

<Filter is Empty>

Setting	Range	Value
SV7PU	0.00-999999.00cyc	1000.00
SV7DO	0.00-999999.00cyc	0.00
SV8PU	0.00-999999.00cyc	0.00
SV8DO	0.00-999999.00cyc	0.00
SV9PU	0.00-999999.00cyc	0.00
SV9DO	0.00-999999.00cyc	0.00
SV10PU	0.00-999999.00cyc	0.00
SV10DO	0.00-999999.00cyc	500.00
SV11PU	0.00-999999.00cyc	0.00
SV11DO	0.00-999999.00cyc	500.00
SV12PU	0.00-999999.00cyc	0.00
SV12DO	0.00-999999.00cyc	0.00
SV13PU	0.00-999999.00cyc	0.00
SV13DO	0.00-999999.00cyc	0.00
SV14PU	0.00-999999.00cyc	0.00
SV14DO	0.00-999999.00cyc	0.00
SV15PU	0.00-999999.00cyc	0.00
SV15DO	0.00-999999.00cyc	0.00
SV16PU	0.00-999999.00cyc	0.00
SV16DO	0.00-999999.00cyc	0.00
OPPH	OFF,1-5	OFF
OPGR	OFF,1-5	OFF
OPLKPH	OFF,1-5	2
OPLKGR	OFF,1-5	2

<Filter is Empty>

Setting	Range	Value
OPLKSF	OFF,1-5	OFF
HITRPH	OFF,1-5	OFF
HITRGR	OFF,1-5	OFF
HILKPH	OFF,1-5	OFF
HILKGR	OFF,1-5	OFF
ECOLDP	Select: N, Y	N
ECOLDG	Select: N, Y	N
RPPH	Select: N, Y	N
RPGR	Select: N, Y	N
RPSEF	Select: N, Y	N
ESEQ	Select: N, Y	N
PRECED	Select: N, Y	N
<input type="checkbox"/> Group : DNPA		
DNPA		
<input type="checkbox"/> Group : DNPB		
DNPB		711 712 758 842 843 837 840 838 855 839 726 735 724 725
<input type="checkbox"/> Group : E1		
RID		RECLOSER R1
TID		FEEDER 2101
CTR	1.0-6000.0	1000.0
PTR	1.0-10000.0	100.0
MTPHASE	OFF,50.00-3199.99 A pri.	400.00
<Filter is Empty>		

Setting	Range	Value
MTGND	OFF,5.00-3199.99 A pri.	100.00
MTSEF	OFF,5.00-1499.99 A pri.	OFF
FCPHASE		A
TDFCPHASE	0.10-2.00	1.00
EMRFCPHASE	Select: N, Y	N
FCGND		1
TDFCGND	0.10-2.00	1.00
EMRFCGND	Select: N, Y	N
DCPHASE		C
TDDCPHASE	0.10-2.00	1.00
EMRDCPHASE	Select: N, Y	N
DCGND		13
TDDCGND	0.10-2.00	1.00
EMRDCGND	Select: N, Y	N
TDSEF	0.00-16000.00cyc	0.00
OPPFC	OFF,1-5	2
OPGFC	OFF,1-5	2
OPTLPHASE	2-5	4
OPTLGND	2-5	4
OPTLSEF	OFF,1-5	OFF
RCL1	0.00-999999.00cyc	300.00
RCL2	0.00-999999.00cyc	600.00
RCL3	0.00-999999.00cyc	600.00
RCL4	0.00-999999.00cyc	0.00

<Filter is Empty>

Setting	Range	Value
RTAR	0.00-999999.00cyc	1800.00
RTLO	0.00-999999.00cyc	600.00
CPWT	OFF,0.00-999999.00cyc	900.00
CFCPHASE	Select: N, Y	N
CTAFCPHASE	0.00-60.00cyc	0.00
VMFCPHASE	0.10-2.00	1.00
MINRFCPHASE	0.00-60.00cyc	0.00
CFCGND	Select: N, Y	N
CTAFCGND	0.00-60.00cyc	0.00
VMFCGND	0.10-2.00	1.00
MINRFCGND	0.00-60.00cyc	0.00
CDCPHASE	Select: N, Y	N
CTADCPHASE	0.00-60.00cyc	0.00
VMDCPHASE	0.10-2.00	1.00
MINRDCPHASE	0.00-60.00cyc	0.00
CDCGND	Select: N, Y	N
CTADCGND	0.00-60.00cyc	0.00
VMDCGND	0.10-2.00	1.00
MINRDCGND	0.00-60.00cyc	0.00
HCTPHASEYN	Select: N, Y	N
HCTPHASE	OFF,1.00-49.99 multiples of Min. trip - phase	OFF
TDPHASEHCT	0.00-16000.00cyc	0.00
ACTHCTPHASE	OFF,1-4	OFF
HCTGNDYN	Select: N, Y	N

<Filter is Empty>

Setting	Range	Value
HCTGND	OFF,1.00-199.99 multiples of Min. trip - ground	OFF
TDGNDCT	0.00-16000.00cyc	0.00
ACTHCTGND	OFF,1-4	OFF
HCLOPHASEYN	Select: N, Y	N
HCLOPHASE	OFF,1.00-49.99 multiples of Min. trip - phase	OFF
ACTHCLOPHASE	OFF,1-4	OFF
HCLOGNDYN	Select: N, Y	N
HCLOGND	OFF,1.00-199.99 multiples of Min. trip - ground	OFF
ACTHCLOGND	OFF,1-4	OFF
CLPUSCH	Select: N, Y	N
CLDPUPHASE	OFF,1.00-49.99 multiples of Min. trip - phase	OFF
CLDPUGND	OFF,1.00-199.99 multiples of Min. trip - ground	OFF
LLDDIVTIME	0.00-999999.00cyc	0.00
RMINTTLIM	OFF,0.00-999999.00cyc	OFF
RMINTPHASE	Select: N, Y	N
RMINTGND	Select: N, Y	N
RMINTSEF	Select: N, Y	N
SEQCOORD	Select: N, Y	N
GNDTPRE	Select: N, Y	N
UFREQLS	Select: N, Y	N
UFREQPU	OFF,40.10-65.00Hz	OFF
UFREQTD	2.00-16000.00cyc	6.00

<Filter is Empty>

Setting	Range	Value
DMTC	Select: 5, 10, 15, 30, 60	5
<input type="checkbox"/> Group : E2		
RID		RECLOSER R1
TID		FEEDER 2101
CTR	1.0-6000.0	1000.0
PTR	1.0-10000.0	100.0
MTPHASE	OFF,50.00-3199.99 A pri.	400.00
MTGND	OFF,5.00-3199.99 A pri.	100.00
MTSEF	OFF,5.00-1499.99 A pri.	OFF
FCPHASE		A
TDFCPHASE	0.10-2.00	1.00
EMRFCPHASE	Select: N, Y	N
FCGND		1
TDFCGND	0.10-2.00	1.00
EMRFCGND	Select: N, Y	N
DCPHASE		C
TDDCPHASE	0.10-2.00	1.00
EMRDCPHASE	Select: N, Y	N
DCGND		13
TDDCGND	0.10-2.00	1.00
EMRDGND	Select: N, Y	N
TDSEF	0.00-16000.00cyc	0.00
OPPFC	OFF,1-5	2
OPGFC	OFF,1-5	2

<Filter is Empty>

Setting	Range	Value
OPTLPHASE	2-5	4
OPTLGND	2-5	4
OPTLSEF	OFF,1-5	OFF
RCL1	0.00-999999.00cyc	300.00
RCL2	0.00-999999.00cyc	600.00
RCL3	0.00-999999.00cyc	600.00
RCL4	0.00-999999.00cyc	0.00
RTAR	0.00-999999.00cyc	1800.00
RTLO	0.00-999999.00cyc	600.00
CPWT	OFF,0.00-999999.00cyc	900.00
CFCPHASE	Select: N, Y	N
CTAFCPHASE	0.00-60.00cyc	0.00
VMFCPHASE	0.10-2.00	1.00
MINRFCPHASE	0.00-60.00cyc	0.00
CFCGND	Select: N, Y	N
CTAFCGND	0.00-60.00cyc	0.00
VMFCGND	0.10-2.00	1.00
MINRFCGND	0.00-60.00cyc	0.00
CDCPHASE	Select: N, Y	N
CTADCPHASE	0.00-60.00cyc	0.00
VMDCPHASE	0.10-2.00	1.00
MINRDCPHASE	0.00-60.00cyc	0.00
CDCGND	Select: N, Y	N
CTADCGND	0.00-60.00cyc	0.00

<Filter is Empty>

Setting	Range	Value
VMDCGND	0.10-2.00	1.00
MINRDCGND	0.00-60.00cyc	0.00
HCTPHASEYN	Select: N, Y	N
HCTPHASE	OFF,1.00-49.99 multiples of Min. trip - phase	OFF
TDPHASEHCT	0.00-16000.00cyc	0.00
ACTHCTPHASE	OFF,1-4	OFF
HCTGNDYDN	Select: N, Y	N
HCTGND	OFF,1.00-199.99 multiples of Min. trip - ground	OFF
TDGNDCT	0.00-16000.00cyc	0.00
ACTHCTGND	OFF,1-4	OFF
HCLOPHASEYN	Select: N, Y	N
HCLOPHASE	OFF,1.00-49.99 multiples of Min. trip - phase	OFF
ACTHCLOPHASE	OFF,1-4	OFF
HCLOGNDYDN	Select: N, Y	N
HCLOGND	OFF,1.00-199.99 multiples of Min. trip - ground	OFF
ACTHCLOGND	OFF,1-4	OFF
CLPUSCH	Select: N, Y	N
CLDPUPHASE	OFF,1.00-49.99 multiples of Min. trip - phase	OFF
CLDPUGND	OFF,1.00-199.99 multiples of Min. trip - ground	OFF
LLDDIVTIME	0.00-999999.00cyc	0.00
RMINTTLLIM	OFF,0.00-999999.00cyc	OFF
RMINTPHASE	Select: N, Y	N

<Filter is Empty>

Setting	Range	Value
RMINTGND	Select: N, Y	N
RMINTSEF	Select: N, Y	N
SEQCOORD	Select: N, Y	N
GNDTPRE	Select: N, Y	N
UFREQLS	Select: N, Y	N
UFREQPU	OFF,40.10-65.00Hz	OFF
UFREQTD	2.00-16000.00cyc	6.00
DMTC	Select: 5, 10, 15, 30, 60	5
<input type="checkbox"/> Group : E3		
RID		RECLOSER R1
TID		FEEDER 2101
CTR	1.0-6000.0	1000.0
PTR	1.0-10000.0	100.0
MTPHASE	OFF,50.00-3199.99 A pri.	400.00
MTGND	OFF,5.00-3199.99 A pri.	100.00
MTSEF	OFF,5.00-1499.99 A pri.	OFF
FCPHASE		A
TDFCPHASE	0.10-2.00	1.00
EMRFCPHASE	Select: N, Y	N
FCGND		1
TDFCGND	0.10-2.00	1.00
EMRFCGND	Select: N, Y	N
DCPHASE		C
TDDCPHASE	0.10-2.00	1.00

<Filter is Empty>

Setting	Range	Value
EMRDCPHASE	Select: N, Y	N
DCGND		13
TDDCGND	0.10-2.00	1.00
EMRDCGND	Select: N, Y	N
TDSEF	0.00-16000.00cyc	0.00
OPPFC	OFF,1-5	2
OPGFC	OFF,1-5	2
OPTLPHASE	2-5	4
OPTLGND	2-5	4
OPTLSEF	OFF,1-5	OFF
RCL1	0.00-999999.00cyc	300.00
RCL2	0.00-999999.00cyc	600.00
RCL3	0.00-999999.00cyc	600.00
RCL4	0.00-999999.00cyc	0.00
RTAR	0.00-999999.00cyc	1800.00
RTLO	0.00-999999.00cyc	600.00
CPWT	OFF,0.00-999999.00cyc	900.00
CFCPHASE	Select: N, Y	N
CTAFCPHASE	0.00-60.00cyc	0.00
VMFCPHASE	0.10-2.00	1.00
MINRFCPHASE	0.00-60.00cyc	0.00
CFCGND	Select: N, Y	N
CTAFCGND	0.00-60.00cyc	0.00
VMFCGND	0.10-2.00	1.00

<Filter is Empty>

Setting	Range	Value
MINRFCGND	0.00-60.00cyc	0.00
CDCPHASE	Select: N, Y	N
CTADCPHASE	0.00-60.00cyc	0.00
VMDCPHASE	0.10-2.00	1.00
MINRDCPHASE	0.00-60.00cyc	0.00
CDCGND	Select: N, Y	N
CTADCGND	0.00-60.00cyc	0.00
VMDCGND	0.10-2.00	1.00
MINRDCGND	0.00-60.00cyc	0.00
HCTPHASEYN	Select: N, Y	N
HCTPHASE	OFF,1.00-49.99 multiples of Min. trip - phase	OFF
TDPHASEHCT	0.00-16000.00cyc	0.00
ACTHCTPHASE	OFF,1-4	OFF
HCTGNDYDYN	Select: N, Y	N
HCTGND	OFF,1.00-199.99 multiples of Min. trip - ground	OFF
TDGNDCT	0.00-16000.00cyc	0.00
ACTHCTGND	OFF,1-4	OFF
HCLOPHASEYN	Select: N, Y	N
HCLOPHASE	OFF,1.00-49.99 multiples of Min. trip - phase	OFF
ACTHCLOPHASE	OFF,1-4	OFF
HCLOGNDYDYN	Select: N, Y	N
HCLOGND	OFF,1.00-199.99 multiples of Min. trip - ground	OFF

<Filter is Empty>

Setting	Range	Value
ACTHCLOGND	OFF,1-4	OFF
CLPUSCH	Select: N, Y	N
CLDPUPHASE	OFF,1.00-49.99 multiples of Min. trip - phase	OFF
CLDPUGND	OFF,1.00-199.99 multiples of Min. trip - ground	OFF
LLDDIVTIME	0.00-999999.00cyc	0.00
RMINTTLM	OFF,0.00-999999.00cyc	OFF
RMINTPHASE	Select: N, Y	N
RMINTGND	Select: N, Y	N
RMINTSEF	Select: N, Y	N
SEQCOORD	Select: N, Y	N
GNDTPRE	Select: N, Y	N
UFREQLS	Select: N, Y	N
UFREQPU	OFF,40.10-65.00Hz	OFF
UFREQTD	2.00-16000.00cyc	6.00
DMTC	Select: 5, 10, 15, 30, 60	5

Group : E4

RID		RECLOSER R1
TID		FEEDER 2101
CTR	1.0-6000.0	1000.0
PTR	1.0-10000.0	100.0
MTPHASE	OFF,50.00-3199.99 A pri.	400.00
MTGND	OFF,5.00-3199.99 A pri.	100.00
MTSEF	OFF,5.00-1499.99 A pri.	OFF

<Filter is Empty>

Setting	Range	Value
FCPHASE		A
TDFCPHASE	0.10-2.00	1.00
EMRFCPHASE	Select: N, Y	N
FCGND		1
TDFCGND	0.10-2.00	1.00
EMRFCGND	Select: N, Y	N
DCPHASE		C
TDDCPHASE	0.10-2.00	1.00
EMRDCPHASE	Select: N, Y	N
DCGND		13
TDDCGND	0.10-2.00	1.00
EMRDCGND	Select: N, Y	N
TDSEF	0.00-16000.00cyc	0.00
OPPFC	OFF,1-5	2
OPGFC	OFF,1-5	2
OPTLPHASE	2-5	4
OPTLGND	2-5	4
OPTLSEF	OFF,1-5	OFF
RCL1	0.00-999999.00cyc	300.00
RCL2	0.00-999999.00cyc	600.00
RCL3	0.00-999999.00cyc	600.00
RCL4	0.00-999999.00cyc	0.00
RTAR	0.00-999999.00cyc	1800.00
RTLO	0.00-999999.00cyc	600.00

<Filter is Empty>

Setting	Range	Value
CPWT	OFF,0.00-999999.00cyc	900.00
CFCPHASE	Select: N, Y	N
CTAFCPHASE	0.00-60.00cyc	0.00
VMFCPHASE	0.10-2.00	1.00
MINRFCPHASE	0.00-60.00cyc	0.00
CFCGND	Select: N, Y	N
CTAFCGND	0.00-60.00cyc	0.00
VMFCGND	0.10-2.00	1.00
MINRFCGND	0.00-60.00cyc	0.00
CDCPHASE	Select: N, Y	N
CTADCPHASE	0.00-60.00cyc	0.00
VMDCPHASE	0.10-2.00	1.00
MINRDCPHASE	0.00-60.00cyc	0.00
CDCGND	Select: N, Y	N
CTADCGND	0.00-60.00cyc	0.00
VMDCGND	0.10-2.00	1.00
MINRDCGND	0.00-60.00cyc	0.00
HCTPHASEYN	Select: N, Y	N
HCTPHASE	OFF,1.00-49.99 multiples of Min. trip - phase	OFF
TDPHASEHCT	0.00-16000.00cyc	0.00
ACTHCTPHASE	OFF,1-4	OFF
HCTGNDYN	Select: N, Y	N
HCTGND	OFF,1.00-199.99 multiples of Min. trip - ground	OFF

<Filter is Empty>

Setting	Range	Value
TDGNDCT	0.00-16000.00cyc	0.00
ACTHCTGND	OFF,1-4	OFF
HCLOPHASEYN	Select: N, Y	N
HCLOPHASE	OFF,1.00-49.99 multiples of Min. trip - phase	OFF
ACTHCLOPHASE	OFF,1-4	OFF
HCLOGNDYN	Select: N, Y	N
HCLOGND	OFF,1.00-199.99 multiples of Min. trip - ground	OFF
ACTHCLOGND	OFF,1-4	OFF
CLPUSCH	Select: N, Y	N
CLDPUPHASE	OFF,1.00-49.99 multiples of Min. trip - phase	OFF
CLDPUGND	OFF,1.00-199.99 multiples of Min. trip - ground	OFF
LLDDIVTIME	0.00-999999.00cyc	0.00
RMINTTLM	OFF,0.00-999999.00cyc	OFF
RMINTPHASE	Select: N, Y	N
RMINTGND	Select: N, Y	N
RMINTSEF	Select: N, Y	N
SEQCOORD	Select: N, Y	N
GNDTPRE	Select: N, Y	N
UFREQLS	Select: N, Y	N
UFREQPU	OFF,40.10-65.00Hz	OFF
UFREQTD	2.00-16000.00cyc	6.00
DMTC	Select: 5, 10, 15, 30, 60	5

<Filter is Empty>

Setting	Range	Value
<input type="checkbox"/> Group : E5		
RID		RECLOSER R1
TID		FEEDER 2101
CTR	1.0-6000.0	1000.0
PTR	1.0-10000.0	100.0
MTPHASE	OFF,50.00-3199.99 A pri.	400.00
MTGND	OFF,5.00-3199.99 A pri.	100.00
MTSEF	OFF,5.00-1499.99 A pri.	OFF
FCPHASE		A
TDFCPHASE	0.10-2.00	1.00
EMRFCPHASE	Select: N, Y	N
FCGND		1
TDFCGND	0.10-2.00	1.00
EMRFCGND	Select: N, Y	N
DCPHASE		C
TDDCPHASE	0.10-2.00	1.00
EMRDCPHASE	Select: N, Y	N
DCGND		13
TDDCGND	0.10-2.00	1.00
EMRDCGND	Select: N, Y	N
TDSEF	0.00-16000.00cyc	0.00
OPPFC	OFF,1-5	2
OPGFC	OFF,1-5	2
OPTLPHASE	2-5	4

<Filter is Empty>

Setting	Range	Value
OPTLGND	2-5	4
OPTLSEF	OFF,1-5	OFF
RCL1	0.00-999999.00cyc	300.00
RCL2	0.00-999999.00cyc	600.00
RCL3	0.00-999999.00cyc	600.00
RCL4	0.00-999999.00cyc	0.00
RTAR	0.00-999999.00cyc	1800.00
RTLO	0.00-999999.00cyc	600.00
CPWT	OFF,0.00-999999.00cyc	900.00
CFCPHASE	Select: N, Y	N
CTAFCPHASE	0.00-60.00cyc	0.00
VMFCPHASE	0.10-2.00	1.00
MINRFCPHASE	0.00-60.00cyc	0.00
CFCGND	Select: N, Y	N
CTAFCGND	0.00-60.00cyc	0.00
VMFCGND	0.10-2.00	1.00
MINRFCGND	0.00-60.00cyc	0.00
CDCPHASE	Select: N, Y	N
CTADCPHASE	0.00-60.00cyc	0.00
VMDCPHASE	0.10-2.00	1.00
MINRDCPHASE	0.00-60.00cyc	0.00
CDCGND	Select: N, Y	N
CTADCGND	0.00-60.00cyc	0.00
VMDCGND	0.10-2.00	1.00

<Filter is Empty>

Setting	Range	Value
MINRDCGND	0.00-60.00cyc	0.00
HCTPHASEYN	Select: N, Y	N
HCTPHASE	OFF,1.00-49.99 multiples of Min. trip - phase	OFF
TDPHASEHCT	0.00-16000.00cyc	0.00
ACTHCTPHASE	OFF,1-4	OFF
HCTGNDYN	Select: N, Y	N
HCTGND	OFF,1.00-199.99 multiples of Min. trip - ground	OFF
TDGNDCT	0.00-16000.00cyc	0.00
ACTHCTGND	OFF,1-4	OFF
HCLOPHASEYN	Select: N, Y	N
HCLOPHASE	OFF,1.00-49.99 multiples of Min. trip - phase	OFF
ACTHCLOPHASE	OFF,1-4	OFF
HCLOGNDYN	Select: N, Y	N
HCLOGND	OFF,1.00-199.99 multiples of Min. trip - ground	OFF
ACTHCLOGND	OFF,1-4	OFF
CLPUSCH	Select: N, Y	N
CLDPUPHASE	OFF,1.00-49.99 multiples of Min. trip - phase	OFF
CLDPUGND	OFF,1.00-199.99 multiples of Min. trip - ground	OFF
LLDDIVTIME	0.00-999999.00cyc	0.00
RMINTTLM	OFF,0.00-999999.00cyc	OFF
RMINTPHASE	Select: N, Y	N
RMINTGND	Select: N, Y	N

<Filter is Empty>

Setting	Range	Value
RMINTSEF	Select: N, Y	N
SEQCOORD	Select: N, Y	N
GNDTPRE	Select: N, Y	N
UFREQLS	Select: N, Y	N
UFREQPU	OFF,40.10-65.00Hz	OFF
UFREQTD	2.00-16000.00cyc	6.00
DMTC	Select: 5, 10, 15, 30, 60	5

Group : E6

RID		RECLOSER R1
TID		FEEDER 2101
CTR	1.0-6000.0	1000.0
PTR	1.0-10000.0	100.0
MTPHASE	OFF,50.00-3199.99 A pri.	400.00
MTGND	OFF,5.00-3199.99 A pri.	100.00
MTSEF	OFF,5.00-1499.99 A pri.	OFF
FCPHASE		A
TDFCPHASE	0.10-2.00	1.00
EMRFCPHASE	Select: N, Y	N
FCGND		1
TDFCGND	0.10-2.00	1.00
EMRFCGND	Select: N, Y	N
DCPHASE		C
TDDCPHASE	0.10-2.00	1.00
EMRDCPHASE	Select: N, Y	N

<Filter is Empty>

Setting	Range	Value
DCGND		13
TDDCGND	0.10-2.00	1.00
EMRDCGND	Select: N, Y	N
TDSEF	0.00-16000.00cyc	0.00
OPPFC	OFF,1-5	2
OPGFC	OFF,1-5	2
OPTLPHASE	2-5	4
OPTLGND	2-5	4
OPTLSEF	OFF,1-5	OFF
RCL1	0.00-999999.00cyc	300.00
RCL2	0.00-999999.00cyc	600.00
RCL3	0.00-999999.00cyc	600.00
RCL4	0.00-999999.00cyc	0.00
RTAR	0.00-999999.00cyc	1800.00
RTLO	0.00-999999.00cyc	600.00
CPWT	OFF,0.00-999999.00cyc	900.00
CFCPHASE	Select: N, Y	N
CTAFCPHASE	0.00-60.00cyc	0.00
VMFCPHASE	0.10-2.00	1.00
MINRFCPHASE	0.00-60.00cyc	0.00
CFCGND	Select: N, Y	N
CTAFCGND	0.00-60.00cyc	0.00
VMFCGND	0.10-2.00	1.00
MINRFCGND	0.00-60.00cyc	0.00

<Filter is Empty>

Setting	Range	Value
CDCPHASE	Select: N, Y	N
CTADCPHASE	0.00-60.00cyc	0.00
VMDCPHASE	0.10-2.00	1.00
MINRDCPHASE	0.00-60.00cyc	0.00
CDCGND	Select: N, Y	N
CTADCGND	0.00-60.00cyc	0.00
VMDCGND	0.10-2.00	1.00
MINRDCGND	0.00-60.00cyc	0.00
HCTPHASEYN	Select: N, Y	N
HCTPHASE	OFF,1.00-49.99 multiples of Min. trip - phase	OFF
TDPHASEHCT	0.00-16000.00cyc	0.00
ACTHCTPHASE	OFF,1-4	OFF
HCTGNDYDN	Select: N, Y	N
HCTGND	OFF,1.00-199.99 multiples of Min. trip - ground	OFF
TDGNDCT	0.00-16000.00cyc	0.00
ACTHCTGND	OFF,1-4	OFF
HCLOPHASEYN	Select: N, Y	N
HCLOPHASE	OFF,1.00-49.99 multiples of Min. trip - phase	OFF
ACTHCLOPHASE	OFF,1-4	OFF
HCLOGNDYDN	Select: N, Y	N
HCLOGND	OFF,1.00-199.99 multiples of Min. trip - ground	OFF
ACTHCLOGND	OFF,1-4	OFF

<Filter is Empty>

Setting	Range	Value
CLPUSCH	Select: N, Y	N
CLDPUPHASE	OFF,1.00-49.99 multiples of Min. trip - phase	OFF
CLDPUGND	OFF,1.00-199.99 multiples of Min. trip - ground	OFF
LLDDIVTIME	0.00-999999.00cyc	0.00
RMINTTLIM	OFF,0.00-999999.00cyc	OFF
RMINTPHASE	Select: N, Y	N
RMINTGND	Select: N, Y	N
RMINTSEF	Select: N, Y	N
SEQCOORD	Select: N, Y	N
GNDTPRE	Select: N, Y	N
UFREQLS	Select: N, Y	N
UFREQPU	OFF,40.10-65.00Hz	OFF
UFREQTD	2.00-16000.00cyc	6.00
DMTC	Select: 5, 10, 15, 30, 60	5

Group : F

SYSFREQ	Select: 50, 60	60
PROT	Select: ABC, ACB	ABC
RWM	Select: N, Y, AUTO	AUTO
RTYPE	Select: OIL, VAC1, VAC2	OIL
INTRATING	500-20000	6000
RTLLEDS	Select: N, N1, Y, Y1	Y
T3PVOL	Select: N, Y	N
PHANTV	Select: OFF, VA, VB, VC, VAB, VBC, VCA	OFF

<Filter is Empty>

Setting	Range	Value
VPCONN	Select: OFF, A, B, C, AB, BC, CA	A
IPCONN	Select: ABC, ACB, BAC, BCA, CAB, CBA	ABC
CTPOL	Select: POS, NEG	POS
BATAH	6.5-20.0	17.0
PWR_AC	OFF,1-1440min	60
PWR_WU	OFF,1-1440min	20
V_LOW1	19.2-24.0Vdc	19.2

Group : G

TGR	0.00-16000.00cyc	0.00
NFREQ	Select: 50, 60	50
PHROT	Select: ABC, ACB	ABC
DATE_F	Select: MDY, YMD	MDY
FP_TO	0-30min	15
LER	Select: 15, 30	30
PRE	1-29	5
IN101D	AC,0.00-1.00	0.50
IN102D	AC,0.00-1.00	0.50
IN103D	AC,0.00-1.00	0.50
IN104D	AC,0.00-1.00	0.50
IN105D	AC,0.00-1.00	0.50
IN106D	AC,0.00-1.00	0.50
EBMON	Select: N, Y	Y
COSP1	0-65000	10000
COSP2	0-65000	40

<Filter is Empty>

Setting	Range	Value
COSP3	0-65000	40
KASP1	0.10-999.00	0.15
KASP2	0.10-999.00	6.00
KASP3	0.10-999.00	6.00
LED11L	Select: N, Y	N
LED12L	Select: N, Y	N
LED13L	Select: N, Y	N
LED14L	Select: N, Y	Y
LED15L	Select: N, Y	Y
LED16L	Select: N, Y	Y
LED17L	Select: N, Y	Y
LED18L	Select: N, Y	N
LED19L	Select: N, Y	N
LED20L	Select: N, Y	N
LED24L	Select: N, Y	Y
LED25L	Select: N, Y	Y
RSTLED	Select: N, N1, Y, Y1	Y
PB8D	0.00-3600.00cyc	0.00
PB9D	0.00-3600.00cyc	0.00
3PVOLT	Select: N, Y	N
PHANTV	Select: OFF, VA, VB, VC, VAB, VBC, VCA	OFF
VPCONN	Select: OFF, A, B, C, AB, BC, CA	A
IPCONN	Select: ABC, ACB, BAC, BCA, CAB, CBA	ABC
CTPOL	Select: POS, NEG	POS

<Filter is Empty>

Setting	Range	Value
EZGRPS	Select: 0-6	0
AMPHR	6.5-20.0	17.0
PWR_AC	OFF,1-1440min	1440
PWR_WU	OFF,1-1440min	1440
V_LOW1	19.2-24.0Vdc	21.0
UTCOFF	-24.00-24.00hour	0.00

Group : L1

TR		51P1T + 51N1T + 67N3T + (51P1 + 51N1) * !LT5
TRCOMM		0
TRSOTF		0
DTT		0
ULTR		!52A
PT1		0
LOG1		0
PT2		0
LOG2		0
BT		0
52A		SW1 * !CLOSE
CL		0
ULCL		TRIP + !PINF * SW1 + !(LT5 + CLOSE) + !(CLOSE + CC + 79CY)

<Filter is Empty>

Setting	Range	Value
79RI		51P1T + 51G1T + 51N1T + 50P1
79RIS		52A + 79CY
79DTL		!LT2 + !LT5
79DLS		79LO
79SKP		0
79STL		0
79BRS		0
79SEQ		0
79CLS		1
SET1		(PB1 * !LT1 * LT4) + (RB1 * !LT1 * !LT4)
RST1		(PB1 * LT1 * LT4) + (RB2 * LT1 * !LT4)
SET2		(PB2 * !LT2 * LT4) + (RB3 * !LT2 * !LT4)
RST2		(PB2 * LT2 * LT4) + (RB4 * LT2 * !LT4)
SET3		PB3 * !LT3 * LT4
RST3		PB3 * LT3 * LT4
SET4		PB5 * !LT4
RST4		PB5 * LT4 + SV7T

<Filter is Empty>

Setting	Range	Value
SET5		$(PB6 * !LT5 * LT4) + (RB10 * !LT5 * !LT4)$
RST5		$(PB6 * LT5 * LT4) + (RB9 * LT5 * !LT4)$
SET6		$(PB7 * !LT6 * LT4) + (RB7 * !LT6 * !LT4)$
RST6		$(PB7 * LT6 * LT4) + (RB8 * LT6 * !LT4)$
SET7		0
RST7		0
SET8		0
RST8		0
SET9		0
RST9		0
SET10		0
RST10		0
SET11		0
RST11		0
SET12		0
RST12		0
SET13		0
RST13		0
SET14		0

<Filter is Empty>

Setting	Range	Value
RST14		0
SET15		0
RST15		0
SET16		0
RST16		0
67P1TC		1
67P2TC		1
67P3TC		1
67P4TC		1
67N1TC		LT1
67N2TC		LT1
67N3TC		LT1 * LT6
67N4TC		LT1
67G1TC		LT1
67G2TC		LT1
67G3TC		LT1
67G4TC		LT1
67Q1TC		1
67Q2TC		1
67Q3TC		1
67Q4TC		1
51P1TC		1
51N1TC		LT1
51G1TC		LT1

<Filter is Empty>

Setting	Range	Value
51P2TC		1
51N2TC		LT1
51G2TC		LT1
51QTC		1
SV1		OC * !LT4 + PB9 * LT4
SV2		CC * !LT4 * LT5 + PB8 * LT4 * LT5
SV3		LT2 * LT5
SV4		!52A
SV5		0
SV6		0
SV7		LT4
SV8		0
SV9		0
SV10		51P1T + 51G1T + 51N1T + 50P1 + (51P1 + 51G1 + 51N1) * !LT5
SV11		ALARM
SV12		DISCHG
SV13		BADBAT + DTFAIL
SV14		0
SV15		0
SV16		0

<Filter is Empty>

Setting	Range	Value
SC1R		1
SC1I		0
SC1D		0
SC2R		1
SC2I		0
SC2D		0
SC3R		1
SC3I		0
SC3D		0
SC4R		1
SC4I		0
SC4D		0
SC5R		1
SC5I		0
SC5D		0
SC6R		1
SC6I		0
SC6D		0
SC7R		1
SC7I		0
SC7D		0
SC8R		1
SC8I		0
SC8D		0

<Filter is Empty>

Setting	Range	Value
RCTR		TRIP + SV1T
RCCL		CLOSE + SV2T
OUT101		TRIP
OUT102		0
OUT103		0
OUT104		0
OUT105		0
OUT106		0
OUT107		DISCHG * !DISTST + !IN101
LED1		LT1
LED2		LT2
LED3		0
LED4		!SG1
LED5		!LT4
LED6		!LT5
LED7		LT6
LED8		52A
LED9		!52A * PINBD
LED11		!DISCHG
LED12		BADBAT + DTFAIL
LED13		!LT5
LED14		TRIP

<Filter is Empty>

Setting	Range	Value
LED15		51P1T + 51G1T + 51N1T
LED16		67P2T + 67G2T + 67N2T
LED17		81D1T
LED18		79RS
LED19		79CY
LED20		79LO
LED24		50G6 + 50N6 + 51N1 + 51N2
LED25		67N3T
LOCAL		0
DP1		1
DP2		1
DP3		52A
DP4		0
DP5		0
DP6		0
DP7		0
DP8		0
DP9		0
DP10		0
DP11		0
DP12		0
DP13		0

<Filter is Empty>

Setting	Range	Value
DP14		0
DP15		0
DP16		0
SS1		$(PB4 * LT4 * !SG1) + (RB6 * !LT4 * !SG1)$
SS2		$(PB4 * LT4 * SG1) + (RB5 * !LT4 * SG1)$
SS3		0
SS4		0
SS5		0
SS6		0
ER		$/51P1 + /51P2 + /51G1 + /51G2 + /51N1 + /51N2 + /67N3 + /52A + \backslash52A$
FAULT		$51P1 + 51P2 + 51G1 + 51G2 + 51N1 + 51N2 + 67N3$
BSYNCH		52A
CLMON		0
BKMON		TRIP
E32IV		1
TMB1A		0
TMB2A		0

<Filter is Empty>

Setting	Range	Value
TMB3A		0
TMB4A		0
TMB5A		0
TMB6A		0
TMB7A		0
TMB8A		0
TMB1B		0
TMB2B		0
TMB3B		0
TMB4B		0
TMB5B		0
TMB6B		0
TMB7B		0
TMB8B		0
<input type="checkbox"/> Group : L2		
TR		$51P1T + 51N1T + 67N3T + (51P1 + 51N1) * !LT5$
TRCOMM		0
TRSOTF		0
DTT		0
ULTR		!52A
PT1		0
LOG1		0

<Filter is Empty>

Setting	Range	Value
PT2		0
LOG2		0
BT		0
52A		SW1 * !CLOSE
CL		0
ULCL		TRIP + !PINF * SW1 + !(LT5 + CLOSE) + !(CLOSE + CC + 79CY)
79RI		51P1T + 51G1T + 51N1T + 50P1
79RIS		52A + 79CY
79DTL		!LT2 + !LT5
79DLS		79LO
79SKP		0
79STL		0
79BRS		0
79SEQ		0
79CLS		1
SET1		(PB1 * !LT1 * LT4) + (RB1 * !LT1 * !LT4)
RST1		(PB1 * LT1 * LT4) + (RB2 * LT1 * !LT4)

<Filter is Empty>

Setting	Range	Value
SET2		$(PB2 * !LT2 * LT4) + (RB3 * !LT2 * !LT4)$
RST2		$(PB2 * LT2 * LT4) + (RB4 * LT2 * !LT4)$
SET3		$PB3 * !LT3 * LT4$
RST3		$PB3 * LT3 * LT4$
SET4		$PB5 * !LT4$
RST4		$PB5 * LT4 + SV7T$
SET5		$(PB6 * !LT5 * LT4) + (RB10 * !LT5 * !LT4)$
RST5		$(PB6 * LT5 * LT4) + (RB9 * LT5 * !LT4)$
SET6		$(PB7 * !LT6 * LT4) + (RB7 * !LT6 * !LT4)$
RST6		$(PB7 * LT6 * LT4) + (RB8 * LT6 * !LT4)$
SET7		0
RST7		0
SET8		0
RST8		0
SET9		0
RST9		0

<Filter is Empty>

Setting	Range	Value
SET10		0
RST10		0
SET11		0
RST11		0
SET12		0
RST12		0
SET13		0
RST13		0
SET14		0
RST14		0
SET15		0
RST15		0
SET16		0
RST16		0
67P1TC		1
67P2TC		1
67P3TC		1
67P4TC		1
67N1TC		LT1
67N2TC		LT1
67N3TC		LT1 * LT6
67N4TC		LT1
67G1TC		LT1
67G2TC		LT1

<Filter is Empty>

Setting	Range	Value
67G3TC		LT1
67G4TC		LT1
67Q1TC		1
67Q2TC		1
67Q3TC		1
67Q4TC		1
51P1TC		1
51N1TC		LT1
51G1TC		LT1
51P2TC		1
51N2TC		LT1
51G2TC		LT1
51QTC		1
SV1		OC * !LT4 + PB9 * LT4
SV2		CC * !LT4 * LT5 + PB8 * LT4 * LT5
SV3		LT2 * LT5
SV4		!52A
SV5		0
SV6		0
SV7		LT4
SV8		0
SV9		0

<Filter is Empty>

Setting	Range	Value
SV10		51P1T + 51G1T + 51N1T + 50P1 + (51P1 + 51G1 + 51N1)
SV11		ALARM
SV12		DISCHG
SV13		BADBAT + DTFAIL
SV14		0
SV15		0
SV16		0
SC1R		1
SC1I		0
SC1D		0
SC2R		1
SC2I		0
SC2D		0
SC3R		1
SC3I		0
SC3D		0
SC4R		1
SC4I		0
SC4D		0
SC5R		1
SC5I		0
SC5D		0

<Filter is Empty>

Setting	Range	Value
SC6R		1
SC6I		0
SC6D		0
SC7R		1
SC7I		0
SC7D		0
SC8R		1
SC8I		0
SC8D		0
RCTR		TRIP + SV1T
RCCL		CLOSE + SV2T
OUT101		TRIP
OUT102		0
OUT103		0
OUT104		0
OUT105		0
OUT106		0
OUT107		DISCHG * !DISTST + !IN101
LED1		LT1
LED2		LT2
LED3		0
LED4		!SG1
LED5		!LT4

<Filter is Empty>

Setting	Range	Value
LED6		!LT5
LED7		LT6
LED8		52A
LED9		!52A * PINBD
LED11		!DISCHG
LED12		BADBAT + DTFAIL
LED13		!LT5
LED14		TRIP
LED15		51P1T + 51G1T + 51N1T
LED16		67P2T + 67G2T + 67N2T
LED17		81D1T
LED18		79RS
LED19		79CY
LED20		79LO
LED24		50G6 + 50N6 + 51N1 + 51N2
LED25		67N3T
LOCAL		0
DP1		1
DP2		1
DP3		52A
DP4		0
DP5		0

<Filter is Empty>

Setting	Range	Value
DP6		0
DP7		0
DP8		0
DP9		0
DP10		0
DP11		0
DP12		0
DP13		0
DP14		0
DP15		0
DP16		0
SS1		(PB4 * LT4 * !SG1) + (RB6 * !LT4 * !SG1)
SS2		(PB4 * LT4 * SG1) + (RB5 * !LT4 * SG1)
SS3		0
SS4		0
SS5		0
SS6		0
ER		/51P1 + /51P2 + /51G1 + /51G2 + /51N1 + /51N2 + /67N3 + /52A + \52A

<Filter is Empty>

Setting	Range	Value
FAULT		51P1 + 51P2 + 51G1 + 51G2 + 51N1 + 51N2 + 67N3
BSYNCH		52A
CLMON		0
BKMON		TRIP
E32IV		1
TMB1A		0
TMB2A		0
TMB3A		0
TMB4A		0
TMB5A		0
TMB6A		0
TMB7A		0
TMB8A		0
TMB1B		0
TMB2B		0
TMB3B		0
TMB4B		0
TMB5B		0
TMB6B		0
TMB7B		0
TMB8B		0

Group : L3

<Filter is Empty>

Setting	Range	Value
TR		51P1T + 51N1T + 67N3T + (51P1 + 51N1) * !LT5
TRCOMM		0
TRSOTF		0
DTT		0
ULTR		!52A
PT1		0
LOG1		0
PT2		0
LOG2		0
BT		0
52A		SW1 * !CLOSE
CL		0
ULCL		TRIP + !PINF * SW1 + !(LT5 + CLOSE) + !(CLOSE + CC + 79CY)
79RI		51P1T + 51G1T + 51N1T + 50P1
79RIS		52A + 79CY
79DTL		!LT2 + !LT5
79DLS		79LO
79SKP		0
79STL		0
79BRS		0

<Filter is Empty>

Setting	Range	Value
79SEQ		0
79CLS		1
SET1		(PB1 * !LT1 * LT4) + (RB1 * !LT1 * !LT4)
RST1		(PB1 * LT1 * LT4) + (RB2 * LT1 * !LT4)
SET2		(PB2 * !LT2 * LT4) + (RB3 * !LT2 * !LT4)
RST2		(PB2 * LT2 * LT4) + (RB4 * LT2 * !LT4)
SET3		PB3 * !LT3 * LT4
RST3		PB3 * LT3 * LT4
SET4		PB5 * !LT4
RST4		PB5 * LT4 + SV7T
SET5		(PB6 * !LT5 * LT4) + (RB10 * !LT5 * !LT4)
RST5		(PB6 * LT5 * LT4) + (RB9 * LT5 * !LT4)
SET6		(PB7 * !LT6 * LT4) + (RB7 * !LT6 * !LT4)
RST6		(PB7 * LT6 * LT4) + (RB8 * LT6 * !LT4)

<Filter is Empty>

Setting	Range	Value
SET7		0
RST7		0
SET8		0
RST8		0
SET9		0
RST9		0
SET10		0
RST10		0
SET11		0
RST11		0
SET12		0
RST12		0
SET13		0
RST13		0
SET14		0
RST14		0
SET15		0
RST15		0
SET16		0
RST16		0
67P1TC		1
67P2TC		1
67P3TC		1
67P4TC		1

<Filter is Empty>

Setting	Range	Value
67N1TC		LT1
67N2TC		LT1
67N3TC		LT1 * LT6
67N4TC		LT1
67G1TC		LT1
67G2TC		LT1
67G3TC		LT1
67G4TC		LT1
67Q1TC		1
67Q2TC		1
67Q3TC		1
67Q4TC		1
51P1TC		1
51N1TC		LT1
51G1TC		LT1
51P2TC		1
51N2TC		LT1
51G2TC		LT1
51QTC		1
SV1		OC * !LT4 + PB9 * LT4
SV2		CC * !LT4 * LT5 + PB8 * LT4 * LT5
SV3		LT2 * LT5

<Filter is Empty>

Setting	Range	Value
SV4		!52A
SV5		0
SV6		0
SV7		LT4
SV8		0
SV9		0
SV10		51P1T + 51G1T + 51N1T + 50P1 + (51P1 + 51G1 + 51N1)
SV11		ALARM
SV12		DISCHG
SV13		BADBAT + DTFAIL
SV14		0
SV15		0
SV16		0
SC1R		1
SC1I		0
SC1D		0
SC2R		1
SC2I		0
SC2D		0
SC3R		1
SC3I		0
SC3D		0

<Filter is Empty>

Setting	Range	Value
SC4R		1
SC4I		0
SC4D		0
SC5R		1
SC5I		0
SC5D		0
SC6R		1
SC6I		0
SC6D		0
SC7R		1
SC7I		0
SC7D		0
SC8R		1
SC8I		0
SC8D		0
RCTR		TRIP + SV1T
RCCL		CLOSE + SV2T
OUT101		TRIP
OUT102		0
OUT103		0
OUT104		0
OUT105		0
OUT106		0

<Filter is Empty>

Setting	Range	Value
OUT107		DISCHG * !DISTST + !IN101
LED1		LT1
LED2		LT2
LED3		0
LED4		!SG1
LED5		!LT4
LED6		!LT5
LED7		LT6
LED8		52A
LED9		!52A * PINBD
LED11		!DISCHG
LED12		BADBAT + DTFAIL
LED13		!LT5
LED14		TRIP
LED15		51P1T + 51G1T + 51N1T
LED16		67P2T + 67G2T + 67N2T
LED17		81D1T
LED18		79RS
LED19		79CY
LED20		79LO
LED24		50G6 + 50N6 + 51N1 + 51N2

<Filter is Empty>

Setting	Range	Value
LED25		67N3T
LOCAL		0
DP1		1
DP2		1
DP3		52A
DP4		0
DP5		0
DP6		0
DP7		0
DP8		0
DP9		0
DP10		0
DP11		0
DP12		0
DP13		0
DP14		0
DP15		0
DP16		0
SS1		(PB4 * LT4 * !SG1) + (RB6 * !LT4 * !SG1)
SS2		(PB4 * LT4 * SG1) + (RB5 * !LT4 * SG1)
SS3		0

<Filter is Empty>

Setting	Range	Value
SS4		0
SS5		0
SS6		0
ER		/51P1 + /51P2 + /51G1 + /51G2 + /51N1 + /51N2 + /67N3 + /52A + \52A
FAULT		51P1 + 51P2 + 51G1 + 51G2 + 51N1 + 51N2 + 67N3
BSYNCH		52A
CLMON		0
BKMON		TRIP
E32IV		1
TMB1A		0
TMB2A		0
TMB3A		0
TMB4A		0
TMB5A		0
TMB6A		0
TMB7A		0
TMB8A		0
TMB1B		0
TMB2B		0

<Filter is Empty>

Setting	Range	Value
TMB3B		0
TMB4B		0
TMB5B		0
TMB6B		0
TMB7B		0
TMB8B		0
<input type="checkbox"/> Group : L4		
TR		51P1T + 51N1T + 67N3T + (51P1 + 51N1) * !LT5
TRCOMM		0
TRSOTF		0
DTT		0
ULTR		!52A
PT1		0
LOG1		0
PT2		0
LOG2		0
BT		0
52A		SW1 * !CLOSE
CL		0
ULCL		TRIP + !PINF * SW1 + !(LT5 + CLOSE) + !(CLOSE + CC + 79CY)

<Filter is Empty>

Setting	Range	Value
79RI		51P1T + 51G1T + 51N1T + 50P1
79RIS		52A + 79CY
79DTL		!LT2 + !LT5
79DLS		79LO
79SKP		0
79STL		0
79BRS		0
79SEQ		0
79CLS		1
SET1		(PB1 * !LT1 * LT4) + (RB1 * !LT1 * !LT4)
RST1		(PB1 * LT1 * LT4) + (RB2 * LT1 * !LT4)
SET2		(PB2 * !LT2 * LT4) + (RB3 * !LT2 * !LT4)
RST2		(PB2 * LT2 * LT4) + (RB4 * LT2 * !LT4)
SET3		PB3 * !LT3 * LT4
RST3		PB3 * LT3 * LT4
SET4		PB5 * !LT4
RST4		PB5 * LT4 + SV7T

<Filter is Empty>

Setting	Range	Value
SET5		$(PB6 * !LT5 * LT4) + (RB10 * !LT5 * !LT4)$
RST5		$(PB6 * LT5 * LT4) + (RB9 * LT5 * !LT4)$
SET6		$(PB7 * !LT6 * LT4) + (RB7 * !LT6 * !LT4)$
RST6		$(PB7 * LT6 * LT4) + (RB8 * LT6 * !LT4)$
SET7		0
RST7		0
SET8		0
RST8		0
SET9		0
RST9		0
SET10		0
RST10		0
SET11		0
RST11		0
SET12		0
RST12		0
SET13		0
RST13		0
SET14		0

<Filter is Empty>

Setting	Range	Value
RST14		0
SET15		0
RST15		0
SET16		0
RST16		0
67P1TC		1
67P2TC		1
67P3TC		1
67P4TC		1
67N1TC		LT1
67N2TC		LT1
67N3TC		LT1 * LT6
67N4TC		LT1
67G1TC		LT1
67G2TC		LT1
67G3TC		LT1
67G4TC		LT1
67Q1TC		1
67Q2TC		1
67Q3TC		1
67Q4TC		1
51P1TC		1
51N1TC		LT1
51G1TC		LT1

<Filter is Empty>

Setting	Range	Value
51P2TC		1
51N2TC		LT1
51G2TC		LT1
51QTC		1
SV1		OC * !LT4 + PB9 * LT4
SV2		CC * !LT4 * LT5 + PB8 * LT4 * LT5
SV3		LT2 * LT5
SV4		!52A
SV5		0
SV6		0
SV7		LT4
SV8		0
SV9		0
SV10		51P1T + 51G1T + 51N1T + 50P1 + (51P1 + 51G1 + 51N1)
SV11		ALARM
SV12		DISCHG
SV13		BADBAT + DTFAIL
SV14		0
SV15		0
SV16		0

<Filter is Empty>

Setting	Range	Value
SC1R		1
SC1I		0
SC1D		0
SC2R		1
SC2I		0
SC2D		0
SC3R		1
SC3I		0
SC3D		0
SC4R		1
SC4I		0
SC4D		0
SC5R		1
SC5I		0
SC5D		0
SC6R		1
SC6I		0
SC6D		0
SC7R		1
SC7I		0
SC7D		0
SC8R		1
SC8I		0
SC8D		0

<Filter is Empty>

Setting	Range	Value
RCTR		TRIP + SV1T
RCCL		CLOSE + SV2T
OUT101		TRIP
OUT102		0
OUT103		0
OUT104		0
OUT105		0
OUT106		0
OUT107		DISCHG * !DISTST + !IN101
LED1		LT1
LED2		LT2
LED3		0
LED4		!SG1
LED5		!LT4
LED6		!LT5
LED7		LT6
LED8		52A
LED9		!52A * PINBD
LED11		!DISCHG
LED12		BADBAT + DTFAIL
LED13		!LT5
LED14		TRIP

<Filter is Empty>

Setting	Range	Value
LED15		51P1T + 51G1T + 51N1T
LED16		67P2T + 67G2T + 67N2T
LED17		81D1T
LED18		79RS
LED19		79CY
LED20		79LO
LED24		50G6 + 50N6 + 51N1 + 51N2
LED25		67N3T
LOCAL		0
DP1		1
DP2		1
DP3		52A
DP4		0
DP5		0
DP6		0
DP7		0
DP8		0
DP9		0
DP10		0
DP11		0
DP12		0
DP13		0

<Filter is Empty>

Setting	Range	Value
DP14		0
DP15		0
DP16		0
SS1		(PB4 * LT4 * !SG1) + (RB6 * !LT4 * !SG1)
SS2		(PB4 * LT4 * SG1) + (RB5 * !LT4 * SG1)
SS3		0
SS4		0
SS5		0
SS6		0
ER		/51P1 + /51P2 + /51G1 + /51G2 + /51N1 + /51N2 + /67N3 + /52A + \52A
FAULT		51P1 + 51P2 + 51G1 + 51G2 + 51N1 + 51N2 + 67N3
BSYNCH		52A
CLMON		0
BKMON		TRIP
E32IV		1
TMB1A		0
TMB2A		0

<Filter is Empty>

Setting	Range	Value
TMB3A		0
TMB4A		0
TMB5A		0
TMB6A		0
TMB7A		0
TMB8A		0
TMB1B		0
TMB2B		0
TMB3B		0
TMB4B		0
TMB5B		0
TMB6B		0
TMB7B		0
TMB8B		0

Group : L5

TR		$51P1T + 51N1T + 67N3T + (51P1 + 51N1) * !LT5$
TRCOMM		0
TRSOTF		0
DTT		0
ULTR		!52A
PT1		0
LOG1		0

<Filter is Empty>

Setting	Range	Value
PT2		0
LOG2		0
BT		0
52A		SW1 * !CLOSE
CL		0
ULCL		TRIP + !PINF * SW1 + !(LT5 + CLOSE) + !(CLOSE + CC + 79CY)
79RI		51P1T + 51G1T + 51N1T + 50P1
79RIS		52A + 79CY
79DTL		!LT2 + !LT5
79DLS		79LO
79SKP		0
79STL		0
79BRS		0
79SEQ		0
79CLS		1
SET1		(PB1 * !LT1 * LT4) + (RB1 * !LT1 * !LT4)
RST1		(PB1 * LT1 * LT4) + (RB2 * LT1 * !LT4)

<Filter is Empty>

Setting	Range	Value
SET2		$(PB2 * !LT2 * LT4) + (RB3 * !LT2 * !LT4)$
RST2		$(PB2 * LT2 * LT4) + (RB4 * LT2 * !LT4)$
SET3		$PB3 * !LT3 * LT4$
RST3		$PB3 * LT3 * LT4$
SET4		$PB5 * !LT4$
RST4		$PB5 * LT4 + SV7T$
SET5		$(PB6 * !LT5 * LT4) + (RB10 * !LT5 * !LT4)$
RST5		$(PB6 * LT5 * LT4) + (RB9 * LT5 * !LT4)$
SET6		$(PB7 * !LT6 * LT4) + (RB7 * !LT6 * !LT4)$
RST6		$(PB7 * LT6 * LT4) + (RB8 * LT6 * !LT4)$
SET7		0
RST7		0
SET8		0
RST8		0
SET9		0
RST9		0

<Filter is Empty>

Setting	Range	Value
SET10		0
RST10		0
SET11		0
RST11		0
SET12		0
RST12		0
SET13		0
RST13		0
SET14		0
RST14		0
SET15		0
RST15		0
SET16		0
RST16		0
67P1TC		1
67P2TC		1
67P3TC		1
67P4TC		1
67N1TC		LT1
67N2TC		LT1
67N3TC		LT1 * LT6
67N4TC		LT1
67G1TC		LT1
67G2TC		LT1

<Filter is Empty>

Setting	Range	Value
67G3TC		LT1
67G4TC		LT1
67Q1TC		1
67Q2TC		1
67Q3TC		1
67Q4TC		1
51P1TC		1
51N1TC		LT1
51G1TC		LT1
51P2TC		1
51N2TC		LT1
51G2TC		LT1
51QTC		1
SV1		OC * !LT4 + PB9 * LT4
SV2		CC * !LT4 * LT5 + PB8 * LT4 * LT5
SV3		LT2 * LT5
SV4		!52A
SV5		0
SV6		0
SV7		LT4
SV8		0
SV9		0

<Filter is Empty>

Setting	Range	Value
SV10		51P1T + 51G1T + 51N1T + 50P1 + (51P1 + 51G1 + 51N1)
SV11		ALARM
SV12		DISCHG
SV13		BADBAT + DTFAIL
SV14		0
SV15		0
SV16		0
SC1R		1
SC1I		0
SC1D		0
SC2R		1
SC2I		0
SC2D		0
SC3R		1
SC3I		0
SC3D		0
SC4R		1
SC4I		0
SC4D		0
SC5R		1
SC5I		0
SC5D		0

<Filter is Empty>

Setting	Range	Value
SC6R		1
SC6I		0
SC6D		0
SC7R		1
SC7I		0
SC7D		0
SC8R		1
SC8I		0
SC8D		0
RCTR		TRIP + SV1T
RCCL		CLOSE + SV2T
OUT101		TRIP
OUT102		0
OUT103		0
OUT104		0
OUT105		0
OUT106		0
OUT107		DISCHG * !DISTST + !IN101
LED1		LT1
LED2		LT2
LED3		0
LED4		!SG1
LED5		!LT4

<Filter is Empty>

Setting	Range	Value
LED6		!LT5
LED7		LT6
LED8		52A
LED9		!52A * PINBD
LED11		!DISCHG
LED12		BADBAT + DTFAIL
LED13		!LT5
LED14		TRIP
LED15		51P1T + 51G1T + 51N1T
LED16		67P2T + 67G2T + 67N2T
LED17		81D1T
LED18		79RS
LED19		79CY
LED20		79LO
LED24		50G6 + 50N6 + 51N1 + 51N2
LED25		67N3T
LOCAL		0
DP1		1
DP2		1
DP3		52A
DP4		0
DP5		0

<Filter is Empty>

Setting	Range	Value
DP6		0
DP7		0
DP8		0
DP9		0
DP10		0
DP11		0
DP12		0
DP13		0
DP14		0
DP15		0
DP16		0
SS1		$(PB4 * LT4 * !SG1) + (RB6 * !LT4 * !SG1)$
SS2		$(PB4 * LT4 * SG1) + (RB5 * !LT4 * SG1)$
SS3		0
SS4		0
SS5		0
SS6		0
ER		$/51P1 + /51P2 + /51G1 + /51G2 + /51N1 + /51N2 + /67N3 + /52A + \backslash52A$

<Filter is Empty>

Setting	Range	Value
FAULT		51P1 + 51P2 + 51G1 + 51G2 + 51N1 + 51N2 + 67N3
BSYNCH		52A
CLMON		0
BKMON		TRIP
E32IV		1
TMB1A		0
TMB2A		0
TMB3A		0
TMB4A		0
TMB5A		0
TMB6A		0
TMB7A		0
TMB8A		0
TMB1B		0
TMB2B		0
TMB3B		0
TMB4B		0
TMB5B		0
TMB6B		0
TMB7B		0
TMB8B		0

Group : L6

<Filter is Empty>

Setting	Range	Value
TR		51P1T + 51N1T + 67N3T + (51P1 + 51N1) * !LT5
TRCOMM		0
TRSOTF		0
DTT		0
ULTR		!52A
PT1		0
LOG1		0
PT2		0
LOG2		0
BT		0
52A		SW1 * !CLOSE
CL		0
ULCL		TRIP + !PINF * SW1 + !(LT5 + CLOSE) + !(CLOSE + CC + 79CY)
79RI		51P1T + 51G1T + 51N1T + 50P1
79RIS		52A + 79CY
79DTL		!LT2 + !LT5
79DLS		79LO
79SKP		0
79STL		0
79BRS		0

<Filter is Empty>

Setting	Range	Value
79SEQ		0
79CLS		1
SET1		(PB1 * !LT1 * LT4) + (RB1 * !LT1 * !LT4)
RST1		(PB1 * LT1 * LT4) + (RB2 * LT1 * !LT4)
SET2		(PB2 * !LT2 * LT4) + (RB3 * !LT2 * !LT4)
RST2		(PB2 * LT2 * LT4) + (RB4 * LT2 * !LT4)
SET3		PB3 * !LT3 * LT4
RST3		PB3 * LT3 * LT4
SET4		PB5 * !LT4
RST4		PB5 * LT4 + SV7T
SET5		(PB6 * !LT5 * LT4) + (RB10 * !LT5 * !LT4)
RST5		(PB6 * LT5 * LT4) + (RB9 * LT5 * !LT4)
SET6		(PB7 * !LT6 * LT4) + (RB7 * !LT6 * !LT4)
RST6		(PB7 * LT6 * LT4) + (RB8 * LT6 * !LT4)

<Filter is Empty>

Setting	Range	Value
SET7		0
RST7		0
SET8		0
RST8		0
SET9		0
RST9		0
SET10		0
RST10		0
SET11		0
RST11		0
SET12		0
RST12		0
SET13		0
RST13		0
SET14		0
RST14		0
SET15		0
RST15		0
SET16		0
RST16		0
67P1TC		1
67P2TC		1
67P3TC		1
67P4TC		1

<Filter is Empty>

Setting	Range	Value
67N1TC		LT1
67N2TC		LT1
67N3TC		LT1 * LT6
67N4TC		LT1
67G1TC		LT1
67G2TC		LT1
67G3TC		LT1
67G4TC		LT1
67Q1TC		1
67Q2TC		1
67Q3TC		1
67Q4TC		1
51P1TC		1
51N1TC		LT1
51G1TC		LT1
51P2TC		1
51N2TC		LT1
51G2TC		LT1
51QTC		1
SV1		OC * !LT4 + PB9 * LT4
SV2		CC * !LT4 * LT5 + PB8 * LT4 * LT5
SV3		LT2 * LT5

<Filter is Empty>

Setting	Range	Value
SV4		!52A
SV5		0
SV6		0
SV7		LT4
SV8		0
SV9		0
SV10		51P1T + 51G1T + 51N1T + 50P1 + (51P1 + 51G1 + 51N1)
SV11		ALARM
SV12		DISCHG
SV13		BADBAT + DTFAIL
SV14		0
SV15		0
SV16		0
SC1R		1
SC1I		0
SC1D		0
SC2R		1
SC2I		0
SC2D		0
SC3R		1
SC3I		0
SC3D		0

<Filter is Empty>

Setting	Range	Value
SC4R		1
SC4I		0
SC4D		0
SC5R		1
SC5I		0
SC5D		0
SC6R		1
SC6I		0
SC6D		0
SC7R		1
SC7I		0
SC7D		0
SC8R		1
SC8I		0
SC8D		0
RCTR		TRIP + SV1T
RCCL		CLOSE + SV2T
OUT101		TRIP
OUT102		0
OUT103		0
OUT104		0
OUT105		0
OUT106		0

<Filter is Empty>

Setting	Range	Value
OUT107		DISCHG * !DISTST + !IN101
LED1		LT1
LED2		LT2
LED3		0
LED4		!SG1
LED5		!LT4
LED6		!LT5
LED7		LT6
LED8		52A
LED9		!52A * PINBD
LED11		!DISCHG
LED12		BADBAT + DTFAIL
LED13		!LT5
LED14		TRIP
LED15		51P1T + 51G1T + 51N1T
LED16		67P2T + 67G2T + 67N2T
LED17		81D1T
LED18		79RS
LED19		79CY
LED20		79LO
LED24		50G6 + 50N6 + 51N1 + 51N2

<Filter is Empty>

Setting	Range	Value
LED25		67N3T
LOCAL		0
DP1		1
DP2		1
DP3		52A
DP4		0
DP5		0
DP6		0
DP7		0
DP8		0
DP9		0
DP10		0
DP11		0
DP12		0
DP13		0
DP14		0
DP15		0
DP16		0
SS1		(PB4 * LT4 * !SG1) + (RB6 * !LT4 * !SG1)
SS2		(PB4 * LT4 * SG1) + (RB5 * !LT4 * SG1)
SS3		0

<Filter is Empty>

Setting	Range	Value
SS4		0
SS5		0
SS6		0
ER		/51P1 + /51P2 + /51G1 + /51G2 + /51N1 + /51N2 + /67N3 + /52A + \52A
FAULT		51P1 + 51P2 + 51G1 + 51G2 + 51N1 + 51N2 + 67N3
BSYNCH		52A
CLMON		0
BKMON		TRIP
E32IV		1
TMB1A		0
TMB2A		0
TMB3A		0
TMB4A		0
TMB5A		0
TMB6A		0
TMB7A		0
TMB8A		0
TMB1B		0
TMB2B		0

<Filter is Empty>

Setting	Range	Value
TMB3B		0
TMB4B		0
TMB5B		0
TMB6B		0
TMB7B		0
TMB8B		0

Group : P1

PROTO	Select: SEL, LMD, DNP, DNPE, MBA, MBB, MB8A, MB8B	SEL
PREFIX	Select: #, \$, %, &, @	@
ADDR	1-99	1
SETTLE	0.00-30.00sec	0.00
SPEED	Select: 300, 1200, 2400, 4800, 9600, 19200	2400
RBADPU	1-10000	60
CBADPU	1-10000	1000
RXID	Select: 1-4	1
TXID	Select: 1-4	2
RXDFLT		XXXXXXXX
RMB1PU	1-8	1
RMB1DO	1-8	1
RMB2PU	1-8	1
RMB2DO	1-8	1
RMB3PU	1-8	1
RMB3DO	1-8	1

<Filter is Empty>

Setting	Range	Value
RMB4PU	1-8	1
RMB4DO	1-8	1
RMB5PU	1-8	1
RMB5DO	1-8	1
RMB6PU	1-8	1
RMB6DO	1-8	1
RMB7PU	1-8	1
RMB7DO	1-8	1
RMB8PU	1-8	1
RMB8DO	1-8	1
DNPADR	0-65534	0
DNPTOF	-24.00-24.00hour	0.00
TIMERQ	0-32767	0
ECLASS	Select: 0-3	2
DECPLA	0-3	1
DECPLV	0-3	1
DECPLM	0-3	1
STIMEO	0.0-30.0	1.0
DRETRY	0-15	0
DTIMEO	0-5	1
MINDLY	0.00-1.00	0.05
MAXDLY	0.00-1.00	0.10
PREDLY	OFF,0.00-30.00sec	0.00
PSTDLY	0.00-30.00sec	0.00

<Filter is Empty>

Setting	Range	Value
ANADB	0-32767	100
UNSOL	Select: N, Y, DIAL	N
PUNSOL	Select: N, Y	N
UNSOFH	Select: N, Y	N
UNSAOV	Select: 2, 4	2
REPADR	0-65534	0
NUMEVE	1-200	10
AGEEVE	0.0-60.0	2.0
ETIMEO	1-50sec	2
URETRY	2-10	3
UTIMEO	1-86400sec	2
CLASSA	Select: 0-3	2
CLASSB	Select: 0-3	2
CLASSC	Select: 0-3	2
ANADBA	0-32767	100
ANADBV	0-32767	100
ANADBM	0-32767	100
BITS	Select: 6-8	8
PARITY	Select: N, E, O	N
STOP	Select: 1, 2	1
T_OUT	0-30	15
AUTO	Select: N, Y, DTA	N
FASTOP	Select: N, Y	N
RESPSZ	Select: 512, 1024, 2048	2048

<Filter is Empty>

Setting	Range	Value
ACHRPT	Select: LAST, ALL	ALL
<input type="checkbox"/> Group : P2		
PROTO	Select: SEL, LMD, DNP, DNPE, MBA, MBB, MB8A, MB8B	DNP
PREFIX	Select: #, \$, %, &, @	@
ADDR	1-99	1
SETTLE	0.00-30.00sec	0.00
SPEED	Select: 300, 1200, 2400, 4800, 9600, 19200, 38400	19200
RTSCTS	Select: N, Y, MBT	N
RBADPU	1-10000	60
CBADPU	1-10000	1000
RXID	Select: 1-4	1
TXID	Select: 1-4	2
RXDFLT		XXXXXXXXXX
RMB1PU	1-8	1
RMB1DO	1-8	1
RMB2PU	1-8	1
RMB2DO	1-8	1
RMB3PU	1-8	1
RMB3DO	1-8	1
RMB4PU	1-8	1
RMB4DO	1-8	1
RMB5PU	1-8	1

<Filter is Empty>

Setting	Range	Value
RMB5DO	1-8	1
RMB6PU	1-8	1
RMB6DO	1-8	1
RMB7PU	1-8	1
RMB7DO	1-8	1
RMB8PU	1-8	1
RMB8DO	1-8	1
DNPADR	0-65534	1
DNPTOF	-24.00-24.00hour	0.00
TIMERQ	0-32767	0
ECLASS	Select: 0-3	2
DECPLA	0-3	1
DECPLV	0-3	1
DECPLM	0-3	1
STIMEO	0.0-30.0	1.0
DRETRY	0-15	0
DTIMEO	0-5	1
MINDLY	0.00-1.00	0.05
MAXDLY	0.00-1.00	0.10
PREDLY	OFF,0.00-30.00sec	0.00
PSTDLY	0.00-30.00sec	0.00
ANADB	0-32767	100
UNSOL	Select: N, Y, DIAL	N
PUNSOL	Select: N, Y	N

<Filter is Empty>

Setting	Range	Value
UNSOFH	Select: N, Y	N
UNSAOV	Select: 2, 4	2
REPADR	0-65534	1000
NUMEVE	1-200	10
AGEEVE	0.0-60.0	2.0
ETIMEO	1-50sec	2
URETRY	2-10	3
UTIMEO	1-86400sec	2
CLASSA	Select: 0-3	2
CLASSB	Select: 0-3	2
CLASSC	Select: 0-3	2
ANADBA	0-32767	100
ANADBV	0-32767	100
ANADBM	0-32767	100
BITS	Select: 6-8	8
PARITY	Select: N, E, O	N
STOP	Select: 1, 2	1
T_OUT	0-30	0
AUTO	Select: N, Y, DTA	N
FASTOP	Select: N, Y	N
RESPSZ	Select: 512, 1024, 2048	2048
ACHRPT	Select: LAST, ALL	ALL

Group : P3

<Filter is Empty>

Setting	Range	Value
PROTO	Select: SEL, LMD, DNP, DNPE, MBA, MBB, MB8A, MB8B	SEL
PREFIX	Select: #, \$, %, &, @	@
ADDR	1-99	1
SETTLE	0.00-30.00sec	0.00
SPEED	Select: 300, 1200, 2400, 4800, 9600, 19200, 38400	19200
RTSCTS	Select: N, Y, MBT	N
RBADPU	1-10000	60
CBADPU	1-10000	1000
RXID	Select: 1-4	1
TXID	Select: 1-4	2
RXDFLT		XXXXXXXX
RMB1PU	1-8	1
RMB1DO	1-8	1
RMB2PU	1-8	1
RMB2DO	1-8	1
RMB3PU	1-8	1
RMB3DO	1-8	1
RMB4PU	1-8	1
RMB4DO	1-8	1
RMB5PU	1-8	1
RMB5DO	1-8	1
RMB6PU	1-8	1

<Filter is Empty>

Setting	Range	Value
RMB6DO	1-8	1
RMB7PU	1-8	1
RMB7DO	1-8	1
RMB8PU	1-8	1
RMB8DO	1-8	1
DNPADR	0-65534	0
DNPTOF	-24.00-24.00hour	0.00
TIMERQ	0-32767	0
ECLASS	Select: 0-3	2
DECPLA	0-3	1
DECPLV	0-3	1
DECPLM	0-3	1
STIMEO	0.0-30.0	1.0
DRETRY	0-15	0
DTIMEO	0-5	1
MINDLY	0.00-1.00	0.05
MAXDLY	0.00-1.00	0.10
PREDLY	OFF,0.00-30.00sec	0.00
PSTDLY	0.00-30.00sec	0.00
ANADB	0-32767	100
UNSOL	Select: N, Y, DIAL	N
PUNSOL	Select: N, Y	N
UNSOFH	Select: N, Y	N
UNSAOV	Select: 2, 4	2

<Filter is Empty>

Setting	Range	Value
REPADR	0-65534	0
NUMEVE	1-200	10
AGEEVE	0.0-60.0	2.0
ETIMEO	1-50sec	2
URETRY	2-10	3
UTIMEO	1-86400sec	2
CLASSA	Select: 0-3	2
CLASSB	Select: 0-3	2
CLASSC	Select: 0-3	2
ANADBA	0-32767	100
ANADBV	0-32767	100
ANADBM	0-32767	100
BITS	Select: 6-8	8
PARITY	Select: N, E, O	N
STOP	Select: 1, 2	1
T_OUT	0-30	15
AUTO	Select: N, Y, DTA	N
FASTOP	Select: N, Y	N
RESPSZ	Select: 512, 1024, 2048	2048
ACHRPT	Select: LAST, ALL	ALL

Group : P4

PROTO	Select: SEL, LMD, DNP, DNPE, MBA, MBB, MB8A, MB8B	SEL
PREFIX	Select: #, \$, %, &, @	@

<Filter is Empty>

Setting	Range	Value
ADDR	1-99	1
SETTLE	0.00-30.00sec	0.00
SPEED	Select: 300, 1200, 2400, 4800, 9600, 19200, 38400	19200
RTSCTS	Select: N, Y, MBT	N
RBADPU	1-10000	60
CBADPU	1-10000	1000
RXID	Select: 1-4	1
TXID	Select: 1-4	2
RXDFLT		XXXXXXXXXX
RMB1PU	1-8	1
RMB1DO	1-8	1
RMB2PU	1-8	1
RMB2DO	1-8	1
RMB3PU	1-8	1
RMB3DO	1-8	1
RMB4PU	1-8	1
RMB4DO	1-8	1
RMB5PU	1-8	1
RMB5DO	1-8	1
RMB6PU	1-8	1
RMB6DO	1-8	1
RMB7PU	1-8	1
RMB7DO	1-8	1

<Filter is Empty>

Setting	Range	Value
RMB8PU	1-8	1
RMB8DO	1-8	1
DNPADR	0-65534	0
DNPTOF	-24.00-24.00hour	0.00
TIMERQ	0-32767	0
ECLASS	Select: 0-3	2
DECPLA	0-3	1
DECPLV	0-3	1
DECPLM	0-3	1
STIMEO	0.0-30.0	1.0
DRETRY	0-15	0
DTIMEO	0-5	1
MINDLY	0.00-1.00	0.05
MAXDLY	0.00-1.00	0.10
PREDLY	OFF,0.00-30.00sec	0.00
PSTDLY	0.00-30.00sec	0.00
ANADB	0-32767	100
UNSOL	Select: N, Y, DIAL	N
PUNSOL	Select: N, Y	N
UNSOFH	Select: N, Y	N
UNSAOV	Select: 2, 4	2
REPADR	0-65534	0
NUMEVE	1-200	10
AGEEVE	0.0-60.0	2.0

<Filter is Empty>

Setting	Range	Value
ETIMEO	1-50sec	2
URETRY	2-10	3
UTIMEO	1-86400sec	2
CLASSA	Select: 0-3	2
CLASSB	Select: 0-3	2
CLASSC	Select: 0-3	2
ANADBA	0-32767	100
ANADBV	0-32767	100
ANADBM	0-32767	100
BITS	Select: 6-8	8
PARITY	Select: N, E, O	N
STOP	Select: 1, 2	1
T_OUT	0-30	15
AUTO	Select: N, Y, DTA	N
FASTOP	Select: N, Y	N
RESPSZ	Select: 512, 1024, 2048	2048
ACHRPT	Select: LAST, ALL	ALL
<input type="checkbox"/> Group : R		
ESERDL	Select: N, Y	N
SRDLCT	2-100	5
SRDLTM	0.5-90.0sec	1.0
<Filter is Empty>		

Setting	Range	Value
SER1		TRIP,51P1T,51P2T,51G1T,51N1T,51N2T,67P2T,67N3T,PB9,67P1,52A,SV4,LED1,LED2,LED4,LED5,LED6,LED7,SV10T,SV11T,SV12T,SV13T
SER2		CLOSE,52A,CF,79CY,79LO,79RS,SH0,SH1,SH2,SH3,SH4,PB8,59A1,IN101,IN102,50P1,50N3,LT1,LT2,LT3,LT4,LT5,LT6
SER3		TOSLPT,TOSLPV,BADBAT,DTFAIL,RB1,RB2,RB3,RB4,RB5,RB6,RB7,RB8,RB9,RB10,RB11,RB12,CC,OC,SV1,SV2,SV1T,SV2T
LDLIST		0
LDAR	Select: 5, 10, 15, 30, 60	5

Group : T

NLB1		NA
CLB1		NA
SLB1		NA
PLB1		NA
NLB2		NA
CLB2		NA

<Filter is Empty>

Setting	Range	Value
SLB2		NA
PLB2		NA
NLB3		NA
CLB3		NA
SLB3		NA
PLB3		NA
NLB4		NA
CLB4		NA
SLB4		NA
PLB4		NA
NLB5		NA
CLB5		NA
SLB5		NA
PLB5		NA
NLB6		NA
CLB6		NA
SLB6		NA
PLB6		NA
NLB7		NA
CLB7		NA
SLB7		NA
PLB7		NA
NLB8		NA
CLB8		NA

<Filter is Empty>

Setting	Range	Value
SLB8		NA
PLB8		NA
NLB9		NA
CLB9		NA
SLB9		NA
PLB9		NA
NLB10		NA
CLB10		NA
SLB10		NA
PLB10		NA
NLB11		NA
CLB11		NA
SLB11		NA
PLB11		NA
NLB12		NA
CLB12		NA
SLB12		NA
PLB12		NA
NLB13		NA
CLB13		NA
SLB13		NA
PLB13		NA
NLB14		NA
CLB14		NA

<Filter is Empty>

Setting	Range	Value
SLB14		NA
PLB14		NA
NLB15		NA
CLB15		NA
SLB15		NA
PLB15		NA
NLB16		NA
CLB16		NA
SLB16		NA
PLB16		NA
DP1_1		S/E CHOCALAN
DP1_0		NA
DP2_1		PTE. MARAMBIO
DP2_0		NA
DP3_1		52C1 CERRADO
DP3_0		52C1 ABIERTO
DP4_1		NA
DP4_0		NA
DP5_1		NA
DP5_0		NA
DP6_1		NA
DP6_0		NA
DP7_1		NA
DP7_0		NA

<Filter is Empty>

Setting	Range	Value
DP8_1		NA
DP8_0		NA
DP9_1		NA
DP9_0		NA
DP10_1		NA
DP10_0		NA
DP11_1		NA
DP11_0		NA
DP12_1		NA
DP12_0		NA
DP13_1		NA
DP13_0		NA
DP14_1		NA
DP14_0		NA
DP15_1		NA
DP15_0		NA
DP16_1		NA
DP16_0		NA
79LL		SET RECLOSURES
79SL		RECLOSE COUNT

<Filter is Empty>

ANEXO II
INFORME DE FALLA
ESTAMPA DE TIEMPO SINCRONIZADA

INFORME (s) QUINTO DÍA N°: IF 2021002308	FECHA DE FALLA: 21 de agosto de 2021
INSTALACIÓN (ES) 52CT1 SE Chocalán	

ANEXO II

IF 2021002308 - ESTAMPA DE TIEMPO SINCRONIZADA

1. Estampa de tiempo sincronizada

21-08-2021	11:31:29	[MLPSS]	CHOC_CT1_52CT1_ST_ABI	CFN	ABIERTO	52CT1	ABIERTO
21-08-2021	11:31:29	[MLPSS]	CHOC_C1_52C1_ST_ABI	CFN	ABIERTO	52C1	ABIERTO
21-08-2021	11:32:26	[MLPSS]	CHOC_C2_52C2_ST_ABI	CFN	ABIERTO	52C2	ABIERTO
21-08-2021	11:32:27	[MLPSS]	CHOC_C1_52C1_ST_ABI	CFN	ABIERTO	52C1	ABIERTO
21-08-2021	11:33:31	[MLPSS]	CHOC_CT1_52CT1_OR_CERRAR	1	52CT1	CERRAR	
21-08-2021	11:34:04	[MLPSS]	CHOC_C2_52C2_OR_CERRAR	1	52C2	CERRAR	
21-08-2021	12:54:19	[MLPSS]	CHOC_C1_52C1_OR_CERRAR	1	52C1	CERRAR	