Archiv: SIPROTEC 4 V4.6 / 7UM6x / 002
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Datei-Name: 600097

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DYNAMIC LIBRARY 4.xxxxx
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ELCAD VERSION 5.1x
TRANSLATE FILE 8xxxx
TRANSLATE FILE 8xxxx
TRANSLATE FILE D:\V3\asG1\e8\e
TRANSLATE FILE D:\V3\asG1\d

EXTERNAL INCOUPLINGS
110kV SWGR PROT 1 TRIP
110kV SWGR PROT 2 TRIP

EXTERNAL INCOUPLINGS
GEN TFR OLTC TRIP
GEN TFR OIL TEMP TRIP
GEN TFR WINDG TEMP TRIP
GEN TFR BUCHZ PROT TRIP
GEN TFR P REL DEVICE TRIP

EXTERNAL INCOUPLINGS
U AUX TFR NLTC TRIP
U AUX TFR OIL TEMP TRIP
U AUX TFR WINDG TEMP TRIP
U AUX TFR BUCHZ PROT TRIP
U AUX TFR P REL DEVICE TRIP

EXTERNAL INCOUPLINGS
TRIP FROM EXCITERSYSTEM CAN 1
TRIP FROM EXCITERSYSTEM CAN 2

EXTERNAL INCOUPLINGS
GT TRIP SYSTEM CAN 1
GT TRIP SYSTEM CAN 2
OVER-/UNDERFREQUENCY CAN 1
OVER-/UNDERFREQUENCY CAN 2

-F13 7UT613 1/2

J L1 L2 L3	DIFF GEN TFR	87T
J L1 L2 L3	NEUTR DIFF GEN TFR	87TN 3)
J L1 L2 L3	EARTH CURRENT U AUX TFR	51UAT
J E		
J EE		
J E		
U L1 L2 L3		
U E		

-F22 7UM612 1/2

J L1 L2 L3	OVERCURRENT GEN TFR	50,51
J EE	EARTH CURRENT GEN TFR	51N
	IMPEDANCE GEN TFR	21 3)
3 Ph. U L1 L2 L3 N		
U E		

-F12 7UM612 1/2

J L1 L2 L3	OVEREXCITATION	24
J EE	NEUTR E/F Uo>	59N
	OVERCURRENT U AUX TFR I>	51UAT
U L1 L2 L3 N	SHORT CIRCUIT U AUX TFR I>>	50UAT
	EARTH CURRENT U AUX TFR	51NUAT
U E		

-F23 7UT613 1/2

J L1 L2 L3	DIFF U AUX TFR	87UAT
J L1 L2 L3	OVERCURRENT U AUX TFR	51UAT
J E		
J EE		
J E		
U L1 L2 L3		
U E		

-F21 7UM622 1/1

I1 L1 L2 L3	OVERLOAD	49
I EE1	OVERCURRENT I>,I>> EXC TFR	51,50 3)
Ise	OVEREXCITATION	24
I2 L1 L2 L3	STATOR E/F Uo>	59N
I EE2	IMPEDANCE	21
	REVERSE PWR	32R
U L1 L2 L3 N	UNDEREXC	40
	UNBALANCED LOAD	46
U E (3Uo)	OUT OF STEP	78
	UNDERFREQUENCY St. 1	81-1
TD1 (Udc)	UNDERFREQUENCY St. 2	81-2
	OVERFREQUENCY St. 1	81-1
	OVERFREQUENCY St. 2	81-2
	OVERVOLTAGE	59
TD2	BREAKER FAILURE	BF
	INADVERTENT ENERGIZATION	50/27 3)
TD3 (Uexc)	FUSE FAILURE	60FL 3)
	DC-VOLTAGE TIME	67G 1)

-F11 7UM622 1/1

I1 L1 L2 L3	GENERATOR DIFF	87G
I EE1	ROTOR E/F	64R
Ise	STATOR E/F 100%	64G
I2 L1 L2 L3	STATOR E/F Uo>	59N
I EE2	IMPEDANCE	21
	REVERSE PWR	32R
U L1 L2 L3 N	UNDEREXC	40
	UNBALANCED LOAD	46
U E (Use)	OUT OF STEP	78
	UNDERFREQUENCY St. 1	81-1
TD1 (Uctr)	UNDERFREQUENCY St. 2	81-2
	OVERFREQUENCY St. 1	81-1
	OVERFREQUENCY St. 2	81-2
	OVERVOLTAGE	59
TD2 (Umeas)	BREAKER FAILURE	BF
	INADVERTENT ENERGIZATION	50/27 3)
TD3 (Uexc)	FUSE FAILURE	60FL 3)

Legende:

1) GT with SFC
2) ST
3) if required
4) ü like Gen CT (min: ü(GT CT) / 8)
r rooted

TRIP CIRCUITS 86A-G,86B-G

GEN CB
SEE / SFC
RAPID SHUT DOWN

TRIP CIRCUITS 86A-T,86B-T

GEN CB
SEE / SFC
RAPID SHUT DOWN
HV CB
U AUX CB 1
U AUX CB 2
AUX CHANGEOVER

Large_Unit_2.pdf

	YU	SIPROTEC	7UM6 002

SIPROTEC 4
Unit Connection >200 MVA
Var 1b (with Gen CB, with LOR)

Date	02-10-24	
Drawn	Donhauser	
Appr.	N.Mueller	
Norm	Dr.Herrmann	

GENERATOR PROTECTION

Single line diagram

Siemens AG

(1)E50414-L0...-S100

Sheet 1-1 Sh.

Orig./Repl.f./Repl.by

Rev. | Remarks | Date | Name