

Current Monitoring Relays



7UG0
IEC 60947-5-1



Please read and understand these instructions before installing, operating, or maintaining the equipment.



DANGER

Hazardous voltage can cause death or serious injury. Disconnect power before working on equipment.



CAUTION

Reliable functioning of the equipment is only ensured with certified components.



Overvoltage category II
(Refer IEC 60947-1)

NOTICE

This product has been designed for environment A. Use of this product in environment B may cause unwanted electromagnetic disturbances in which case the user may require to take adequate mitigation measures.

Technical Data

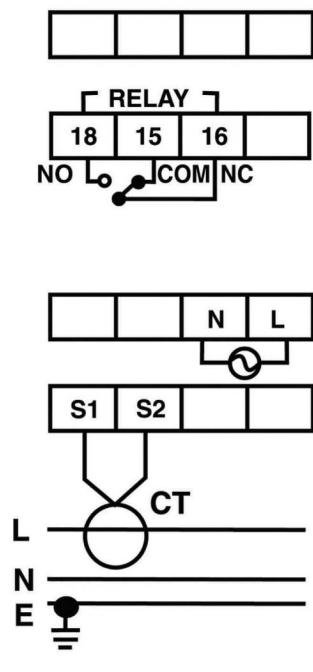
Designation	7UG0 821-1AB20	7UG0 822-1AD20	7UG0 831-1AB20	7UG0 832-1AD20
Control voltage	110V AC	230V AC	110V AC	230V AC
Designation	Digital Current Monitoring relay - 1ph			
Supply Network	240V AC 1Φ - 2W			
CT (External) Settings:				
CT Primary -	1A - 999A / 5A - 999A			
CT Secondary -	1A / 5A (Selectable)			
Trip modes	Under Current : 0 - 999A (0 to 100% of CT Primary Setting) Over Current : 0.5A - 1.19kA (10% to 120% of CT Primary Setting)			
Trip Time delay	0 - 99.9 sec			
Operating temperature	0 to 50°C			

	7UG0 8...
	0.5 Nm
	1 x (0.75... 2.5) mm ² 2 x 0.5 to 2 x 1.5 mm ²
	1 x (0.5... 2.5) mm ² 2 x (0.5... 1.5) mm ²

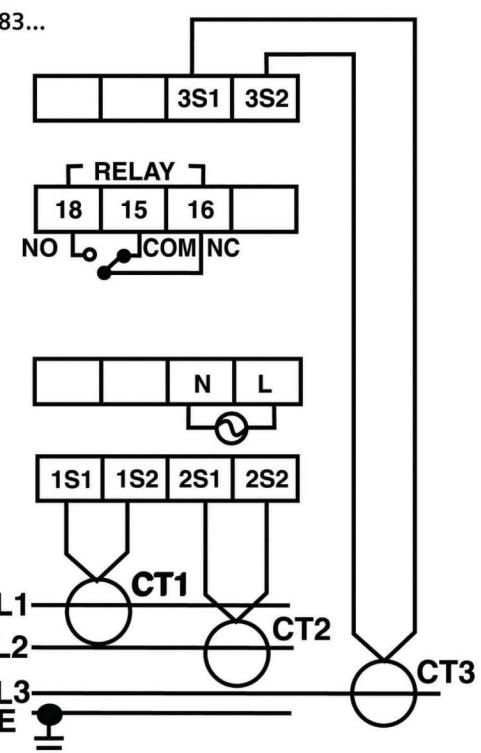
LED Indication Chart		
Various conditions	Power "ON" LED	"R1" LED
No Fault	ON	OFF
Trip	ON	ON

Terminal Connections

7UG082...

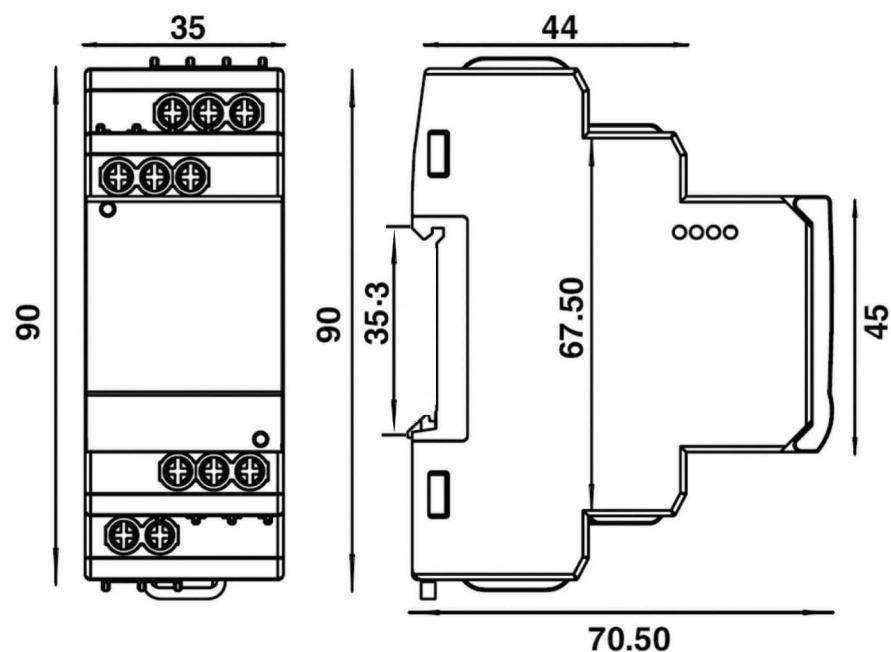


7UG083...

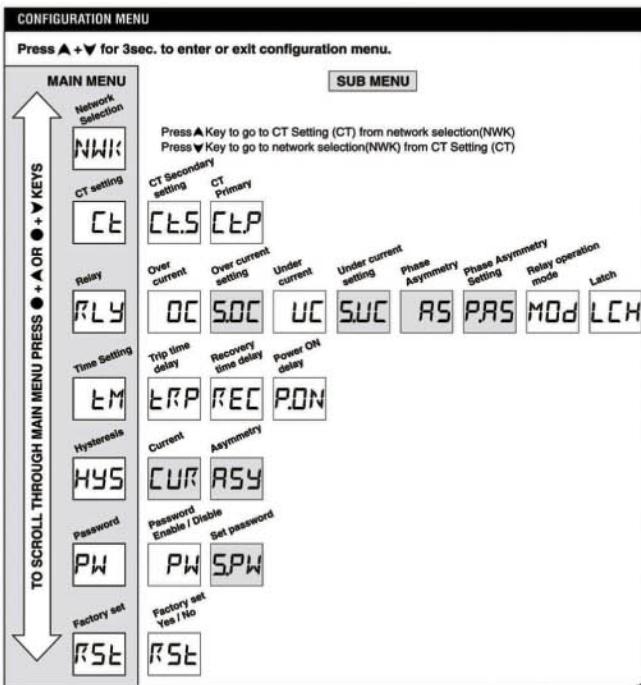


Dimensional drawings

7UG082... & 7UG083...



Menu Guide 7UG082... & 7UG083...



Note : 1) Appearance of shaded menus dependant on selection of other parameters

2) Network selection & phase asymmetry setting not applicable for 900CPR-1

SUB MENU			
Network selection (NWK)			
Press A or V to scroll through sub menu			
DISPLAY (For 1sec)	DESCRIPTION	DEFAULT VALUE	RANGE
NWK	Network selection	3P3	1P2 / 3P3 / 3P4 Not applicable for 900CPR-1

CT setting (CT)			
Press A or V to scroll through sub menu		Press ● + ▲ or ● + ▼ to change parameter value	
DISPLAY (For 1sec)	DESCRIPTION	DEFAULT VALUE	RANGE
Cts	CT Secondary setting	5	1A / 5A
Ctp	CT Primary	100	5 - 999A (If CT.S is 5A) 1 - 999A (If CT.S is 1A)
Relay (RLY)			
Press A or V to scroll through sub menu		Press ● + ▲ or ● + ▼ to change parameter value	
DISPLAY (For 1sec)	DESCRIPTION	DEFAULT VALUE	RANGE
OC	Over current	ON	ON / OFF
SOC	Over current setting	110	0.5A - 1.19kA 10-120% of CT Primary setting
UC	Under current	OFF	ON / OFF
SUC	Under current setting	500	0 - 999A 0-100% of CT Primary setting
RS	Phase Asymmetry	ON	ON / OFF
PRS	Phase Asymmetry Setting	100	5.0 - 99.9%
MOD	Relay operation mode	OFF	ON : NC OFF : NO
LCH	Latch	OFF	If Latch is ON, user has to reset the unit manually when fault is removed

Time Setting (TM)			
Press A or V to scroll through sub menu		Press ● + ▲ or ● + ▼ to change parameter value	
DISPLAY (For 1sec)	DESCRIPTION	DEFAULT VALUE	RANGE
ERP	Trip time delay	30	0.0 - 99.9s
REC	Recovery time	0.5	0.0 - 99.9s
P.ON	Power ON delay	50	0.5 - 99.9s
Hysteresis (HYS)			
Press A or V to scroll through sub menu		Press ● + ▲ or ● + ▼ to change parameter value	
DISPLAY (For 1sec)	DESCRIPTION	DEFAULT VALUE	RANGE
CUR	Hysteresis for current	0.5	0.1 - 99.9A
ASY	Hysteresis for Asymmetry	2.0	2 - 20%
Password (PW)			
Press A or V to scroll through sub menu		Press ● + ▲ or ● + ▼ to change parameter value	
DISPLAY (For 1sec)	DESCRIPTION	DEFAULT VALUE	RANGE
PW	Password	115	ENB / DIS Enable / Disable password protection option
SPW	Set password	000	000-999 Will be prompted only when Password option is enabled
NOTE : PW option will be asked when the user enters the config. menu if PW option is enabled in the config menu and the user has to enter the password which he has set in the SPW (set password) option.			

TRIP VALUE SETTING			
Press A or V to scroll through main menu		Press ● + ▲ or ● + ▼ to change parameter value	
DISPLAY (For 1sec)	DESCRIPTION	DEFAULT VALUE	RANGE
LCK	LOCK	YES	YES / NO
SOC	Over current setting	110	0.5A - 1.19kA 10-120% of CT Primary setting
SUC	Under current setting	500	0 - 999A 0-100% of CT Primary setting
ERP	Trip time delay	30	0.0 - 99.9s
LCK	LOCK	NO	YES / NO, (In this option if YES is selected by the user, then whenever the user enters the Trip Value Setting, initially LOCK option will be prompted. The user will have to set NO after which he can access the trip setting menu. If the user wants to disable LOCK option, he can set NO when LOCK option is prompted after TR2 option.)
ONLINE KEYS			
Individual parameters can be viewed with every press of ▼ keys.			
7UG083..	PARAMETER	SYMBOL	
	Current (R phase)	L1 A	
	Current (Y phase)	L2 A	
	Current (B phase)	L3 A	
	Phase Asymmetry	As	

Note : 1) Phase Asymmetry not displayed for 1P2 network selection.

2) Only one phase current will be displayed for 1P2 network selection.

TRIP INDICATION	Trip Indication on press of ▲ key : Trip value will be displayed till the key is pressed.
RESET	Press ● key for 3sec. to reset manually
Master Password : 753	

Disposal

Siemens products are environment friendly, which predominantly consist of recyclable materials. For disposals we recommend disassembling and separation into following materials:
METALS: Segregate into Ferrous & Non Ferrous types for recycling through authorised dealer.

PLASTICS: Segregate as per material type for recycling through authorised dealer. Because of the long lifetime of Siemens products the disposal guidelines may be replaced by other national regulations when taking the product out of service.

The local customer care service is available at any time to answer disposal-related questions