

(€ RoHS

FEATURES

- Under current, Over current protection
- · Current asymmetry monitoring (for 3Ø System only)
- True RMS value measurement
- User selectable Power ON delay, Trip time delay and Recovery time
- · Adjustable hysteresis
- One alarm relay with NC or NO operation selectable

SPECIFICATIONS

DISPLAY

3 Digits, LCD with backlight

ELECTRICAL CONNECTION

900CPR-1: 1Ø-2 wire

900CPR-3: 1Ø-2 wire, 3Ø-3 wire, 3Ø-4 wire

AUXILIARY SUPPLY

110V / 230V AC (factory set)

50 / 60Hz

POWER CONSUMPTION

15VA max

CT PRIMARY SETTING

1A / 5A-999A

CT SECONDARY SETTING

1A or 5A (Selectable)

TRIP SETTINGS

Under Current : 0 - 999A (0-100% of CT Primary Setting) Over Current : 0.5A - 1.19kA (10-120% of CT Primary Setting) Current Asymmetry: 5.0 - 99.9%

TIME SETTINGS

Power ON Delay: 0.5 - 99.9sec

Response Delay (Trip time delay): 0 - 99.9sec

Recovery Time: 0-99.9sec Response Time: < 200ms

MAXIMUM CURRENT INPUT

120% of CT Primary setting

HYSTERESIS

0.1 - 99.9A

RESOLUTION

0.01, 0.1, 1A, 0.01kA (Depends on CT setting)

ACCURACY

Current: ±1% of Setting, ±2 digits Time (Recovery Time, Trip Time Delay, Power ON Delay): ±5% of setting ± 200ms

OUTPUT SPECIFICATIONS

Relay: 1C/O (SPDT)

RELAY RATING

NO (5A, 250V AC) NC (3A, 250V AC)

LED INDICATION

LED(Red): Trip

ENVIRONMENTAL SPECIFICATIONS

- Indoor use
- Altitude of up to 2000 meters
- Pollution degree II

Temperature : Operating : 0°C to 50°C

Storage :-20°C to 70°C

: Up to 95% RH, non-condensing Humidity

MECHANICAL SPECIFICATIONS

No. of Push Buttons: 3 Size: 35mm width

Mounting: 35mm Din Rail Mount Wire Size (max): 4 sq.mm Screw tightening torque: 0.5 N-M

WEIGHT

CPR-1 : 130 gms. CPR-3 : 150 gms.

A SAFETY PRECAUTIONS

All safety related codifications, symbols and instructions that appear in this operating manual or on the equipment must be strictly followed to ensure the safety of the operating personnel as well as the instrument.

If the equipment is not used in a manner specified by the manufacturer it might impair the protection provided by the equipment.

If there is physical damage to the unit then do not use it.

Read complete instructions prior to installation and operation of the unit.

WIRING GUIDELINES

★ WARNING

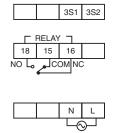
- 1. To prevent the risk of electric shock power supply to the equipment must be kept OFF while doing the wiring arrangement.
- 2. Wiring shall be done strictly according to the terminal layout with shortest connections. Confirm that all connections are correct.

! CAUTION

- 1. To ensure the safe operation of unit, check the wiring and connections.
- 2. It is recommended to test the unit periodically to satisfy the regulations.

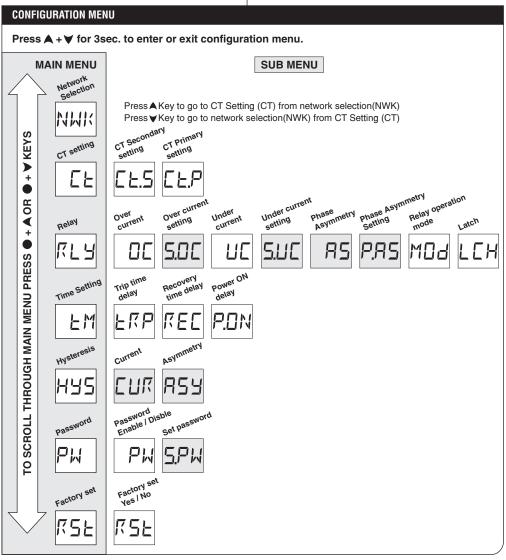
DIMENSIONS (All dimensions in mm) <u>aaa</u> 5 0000 20 90 90 45 70.50

TERMINAL CONNECTIONS 900CPR-1 16 15 NO L JCOM NC S1 S2



1S1 1S2 2S1 2S2

900CPR-3



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 🛕 to enter sub m	nenu from main menu
Press A or ▼ to scroll through sub menu		Press ● + ▲ or ● + ▼ to change parameter value		
DISPLAY (For 1sec)	DESCRIPTION	DEFAULT RANGE		CONDITION
NMK	Network selection	3P3	1P2 / 3P3 / 3P4	Not applicable for 900CPR-1

CT setting	J (CT)		Press ▲ to enter sub m	nenu from main menu	
Press ▲ or ▼ to scroll through sub menu		Press ● + ▲ or ● + ▼ to change parameter value			
DISPLAY (For 1sec)	DESCRIPTION	DEFAULT VALUE	RANGE	CONDITION	
C Ł.5	CT Secondary setting	Ĺ	1A/5A		
C Ł.P	CT Primary setting	IDÔ	5 - 999A (If CT.S is 5A) 1 - 999A (If CT.S is 1A)		
Relay (RL	Y)		Press ▲ to enter sub n	nenu from main menu	
Press ▲or through su	▼ to scroll ib menu		Press ● + ▲ or ● + ▼ to change param	neter value	
DISPLAY (For 1sec)	DESCRIPTION	DEFAULT VALUE	RANGE	CONDITION	
	Over current	DŃ	ON / OFF		
5.00	Over current setting		0.5A - 1.19kA 10-120% of CT Primary setting	This option will be prompted only when OC option is made ON in config. menu. OC setting cannot go below the UC setting, e.g. If UC is 50A, OC setting cannot go below 50A	
ЦΕ	Under current	OFF	ON / OFF		
5.00	Under current setting	500	0 – 999A 0-100% of CT Primary setting	This option will be prompted only when UC option is made ON in config. menu. UC setting cannot go above the OC setting. e.g. If OC is 100A UC setting will be limited till 100A only.	
R5	Phase Asymmetry		ON / OFF	Not prompted for 1P2 network selection (not applicable for 900CPR-1)	
P.RS	Phase Asymmetry Setting	As %	5.0 - 99.9%	This option will be prompted only when AS option is made ON. Not prompted for 1P2 network selection (not applicable for 900CPR-1)	
MDd	Relay operation mode	□FF	ON / OFF	ON: NO(During Trip) OFF: NC(During Trip)	
LEH	Latch	OFF	ON / OFF	If Latch is ON, user has to reset the unit manually when fault is removed	

when fault is removed

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Time Setting (TM)			Press ▲ to enter sub m	Press ▲ to enter sub menu from main menu	
Press A or ▼ to scroll through sub menu		Press ● + ▲ or ● + ▼ to change parameter value		neter value	
DISPLAY (For 1sec)	DESCRIPTION	DEFAULT VALUE	PANCE		
FLL	Trip time delay	3.0	0.0 - 99.9s		
KEC	Recovery time	t off	0.0 - 99.9s		
P.ON	Power ON delay	ton	0.5 - 99.9s		

Hysteresis (HYS)			Press ▲ to enter sub menu from main menu		
Press A or ▼ to scroll through sub menu		Press ● + ▲ or ● + ▼ to change parameter value		neter value	
DISPLAY (For 1sec)	DESCRIPTION	DEFAULT VALUE	BANGE		
ЕПК	Hysteresis for current	<u>.</u>	0.1 - 99.9A		
R53	Hysteresis for Asymmetry.	Z.I.	2 – 20%	Not prompted for 1P2 network selection (not applicable for 900CPR-1)	

Password (PW)			Press A to enter sub menu from main menu	
Press A or ▼ to scroll through sub menu		Press ● + ▲ or ● + ♥ to change parameter value		
DISPLAY (For 1sec)	DESCRIPTION	DEFAULT VALUE	RANGE	CONDITION
PW	Password	di 5	ENB / DIS	Enable / Disable password protection option
S.PW	Set password		0-999	Will be prompted only when Password option is enabled

NOTE: PW option will be asked when the user enter 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 S.PW (set password) option.

Factory set (RST)			Press ▲ to enter sub menu from main menu		
Press A or ▼ to scroll through sub menu		Press ● + ▲ or ● + ▼ to change parameter value			
DISPLAY (For 1sec)	DESCRIPTION	DEFAULT RANGE		CONDITION	
rs _E	Reset (Factory set)	NO	YES / NO		

RIP VALUE SETTING Press A key for 3 sec. to enter or exit Trip Value Setting menu :

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	Press A or ▼ to scroll through main menu		Press ● + ▲ or ● + ▼ to change parameter value		
DISPLAY (For 1sec)	DESCRIPTION	DEFAULT VALUE	RANGE	CONDITION	
LCK	LOCK	YE5	YES / NO	This option will be prompted first when the user enters the trip setting menu. User has to set NO after which he can access the trip setting menu.	
5.0 C	Over current setting		0.5A - 1.19kA 10-120% of CT Primary setting	This option will be prompted only when OC option is made ON in config. menu. OC setting cannot go below the UC setting. e.g. If UC is 50A, OC setting cannot go below 50A	
5.UE	Under current setting	5 <u>0</u> .0	0 – 999A 0-100% of CT Primary setting	This option will be prompted only when UC option is made ON in config. menu. UC setting cannot go above the OC setting. e.g. If OC is 100A, UC setting will be limited till 100A only.	
L TP	Trip time delay	3.0°	0.0 - 99.9s		
LEK	LOCK	NO	YES / NO, (In this option if YES is selected by the user, then wheneve 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.			

900CPR-3

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

(Specifications subject to change as development is a continuous process.)

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