OVERCURRENT PROTECTION RELAY

OCPR-100

The overcurrent protection relay offers a wide range of protection options for transformer, motor, and busbar protection applications. It measures the current at the current transformer inputs and, based on the settings, sends signals via its relays and MODBUS in case of a fault.

GENERAL

Supply Voltage	24 – 110 V DC
Operating Temperature	- 40°C... + 80°C
Storage Temperature	- 45°C... + 85°C
Power Consumption	240 mW
Protection Class	IP20

DIMENSIONS

Height x Width x Depth	152 x 152 x 218 mm
Weight	1.5 kg
Assemblage	Panel Mount

CONNECTION INTERFACES

Power Input	1
RS485	1
USB	1
Relay Output	5
Isolated Digital Input	9
Current Transformer Input (5A)	4
Current Transformer Input (1A)	4

MEASUREMENT

Current	5A / 1A
Sensitivity	± 1%A

PROPERTIES

Screen	2.8" TFT-LCD Touch Panel
Menus	System, Alarm, Setup
Functions	Setting protection and communication parameters Real-time recording and monitoring of alarm conditions
LEDs	Power, communication, 5x Programmable LED
Communication	Modbus RTU, USB, IEC 60870 -5-103

OVERCURRENT CHARACTERISTICS

- IEC Normal Inverse (NI)
- ANSI Moderately Inverse (MI)
- IEC Very Inverse (VI)
- ANSI Very Inverse (VI)
- IEC Extremely Inverse (EI)
- ANSI Extremely Inverse (EI)
- IEC Long Time Inverse (LTI)

PROTECTION FUNCTIONS

- Phase Overcurrent (ANSI 50, 51)
- Derived Earth Fault (ANSI 50N, 51N)
- Measured Earth Fault (ANSI 50G, 51G)
- Cold Load (ANSI 51C)
- Sensitive Earth Protection (ANSI 50SEF, 51SEF)
- Broken Conductor (ANSI 46BC)
- Negative Phase Sequence Overcurrent (ANSI 46NPS)
- Reverse Phase or Phase Balance Current (46)
- Lockout Relay (86)
- Cold Load Pick-Up (CLP)
- Trip Circuit Monitor (TCM)
- Breaker Failure Protection (BF)
- Undercurrent Protection (37)
- Restricted Earth Fault Protection (REF)
- Inrush Detector (HBL2)
- Total Harmonic Distortion Supervision (THD)
- Thermal Overload (49)
- Auto-Reclose (79)

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