

## OVERLOAD RELAY



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**Prok dv's**®

An ISO 9001 : 2008 Company

**MICROPROCESSOR BASED DIGITAL OVER LOAD/CURRENT  
RELAY (OCR/OLR) 1A / 5A IEEE DEVICE CODE: 50**

## Features

- True RMS measurements
- Accuracy class 1.0
- 2-Line, 16 Char back-lit LCD display.
- Display of line currents ( I<sub>r</sub>, I<sub>y</sub>, I<sub>b</sub>)
- Pick-up and tripping of over load through LED indication
- CT ratio-Site selectable from 5/5 to 3000/5A for 5A
- Site selectable from 1/1 to 600/1A for 1A
- Compact and ideal for industrial environment
- Display of Loss of phase & unbalance trip
- 2 Set of potential free output contacts

## Applications

- Electrical Panels-MCC & PCC
- Generator Panels and power distribution network

## Specifications

Accuracy class	Class1.0
Frequency	50Hz ± 5 %
Rated current	1A /5A site selectable
Auxiliary	85-275V AC/ DC
Operating temperature	-5° C to +55° C
CT ratio – field programmable	5/5 to 3000/5A in steps of 5A 1/1 TO 600/1A in steps of 1A
Power consumption-Current input	Less than 0.2 VA
Auxiliary	Less than 5 VA
Weight	300 grams
Model	MPOLR 1A / 5A
Contact Rating	8A ,250VAC OR 8A, 30VDC
Dimension	96 X 96X 70 mm ( W X H X D)
Mounting	Flush

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## SETTING PROCEDURE

Refer to wiring diagram-

- 1) Connect the suitable AUX Supply – 50 to 275 VAC/DC 50Hz to Microprocessor based Digital Over Load / Current Relay ( OLR/ OCR )>

Display shows

Prok dv's  
DT OCR V 1.10

Ir=0.0A Iy=0.0A  
Ib=0.0A

- 2) Press SET Key for 3 Sec display shows Setting mode and password selection

Settings Mode  
Password : \*\*\*\*

Now Enter the Factory set pass word 1111 using SET key and INC Key

If the Entered pass word is correct (1111) display changes to Rated secondary current selection other wise it returns back to same position

Select Rated current 1A /5A using INC key or DEC key after selecting press SET key to store the value.

1. CT Type  
\*\*\* / 5

Display shows

2. CT Ratio  
500/5[5-3000/5]

Press INC Key or DEC key to select the CT Ratio. Then press SET key to save the value.  
Display shows

3. Trip Settings  
100% [50% -110%]

Press INC Key or DEC key to select the over load trip settings in steps of 5 %  
Then press SET key to save the value. Display shows

4. Trip Time  
20S [1-50 Sec]

Press INC Key or DEC key to select the over load trip time settings in steps of 0.1 Sec  
Then press SET key to save the value Display shows

5. Set Unbalance  
10% [5% - 40% ]

Select the unbalance setting value by using INC key or DEC KEY and then press SET KEY to save the value. Then display shows for a while

Data saving  
DONE

And returns to normal operation

Ir=0.0A Iy=0.0A  
Ib=0.0A

This completes the settings of the Microprocessor based Digital Over Load / Current Relay (OLR/OCR).

Note: In setting mode none of the key is not pressed until 15 sec's time out will occur  
rDisplay shows for a while

Time out

Display Returns to normal operation. For loss of fail Display shows

R Phase Fail

For Un Balance Trip Display shows

R-Y Unbalance Trip

For Over Load Trip Display shows

R Phase Trip  
5.1A

Press DEC/RESET KEY to come out of trip condition after clearing the fault.

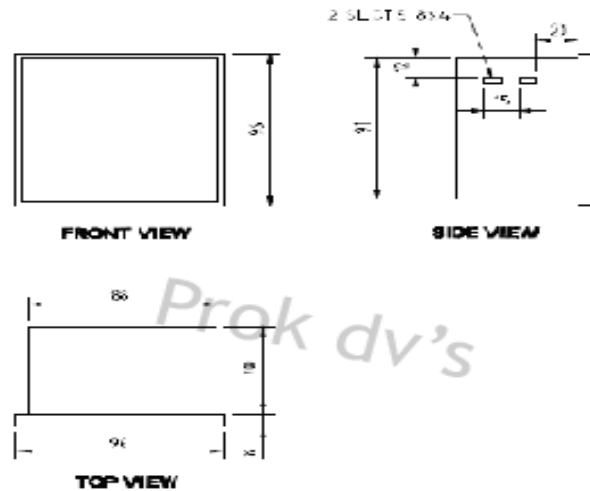
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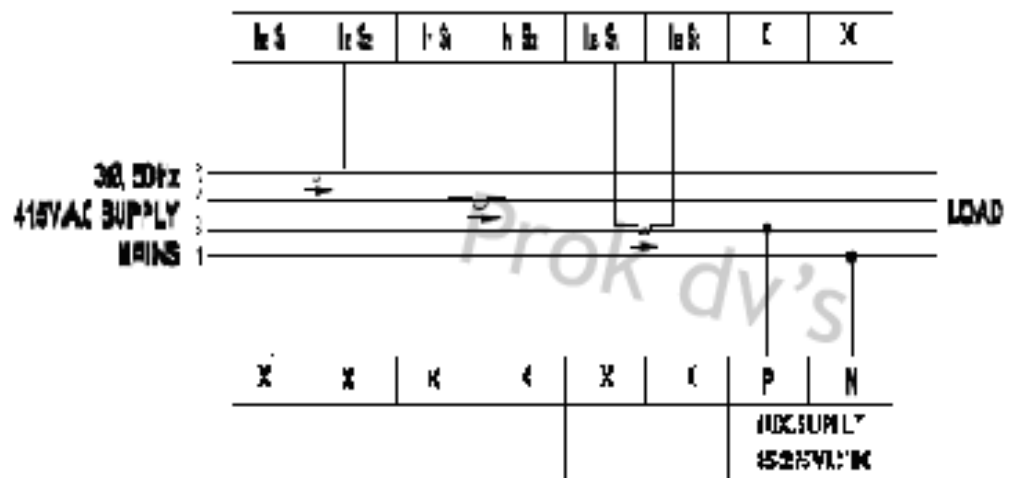
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**MECHANICAL DIMENSION OF MICROPROCESSOR BASED DIGITAL OVER LOAD/CURRENT RELAY (OCR/OLR) 1A/5A**



NOTE: ALL DIMENSIONS ARE IN MM  
TOLERANCE:  $\pm 1$ MM

**WIRING DIAGRAM OF MICROPROCESSOR BASED DIGITAL OVER LOAD/CURRENT RELAY (OCR/OLR) 1A / 5A**

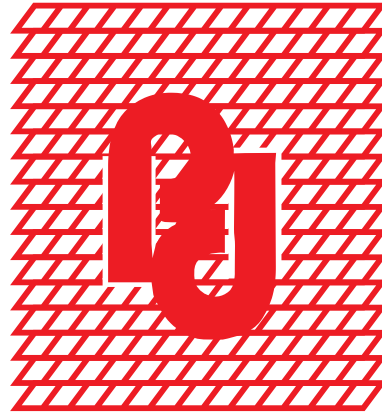


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