

## **DIGITAL CURRENT RELAY - OCR1D V1.0**

## **FEATURES**

Current monitoring for over current or under current

Current transformer terminals are completely isolated from all other terminals

3-Digit numeric display for displaying current and status

True RMS current measurement

Digital presettable thresholds for over current and under current

Presettable response delays to over and under current

Presettable current transformer ratio

Three push buttons for selecting display of current or status and accessing the menu

Colored status indicators

Wide operating voltage range

Wiring through plug in connector

Case conforms to DIN 43 880 of the British Standard

Fits onto 35mm symmetric DIN rail to BS5584 (EN 50 022, DIN 46277-3)

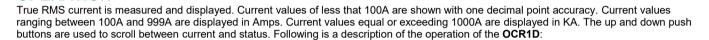
Humidity class, DIN 40040

Environmental protection, DIN 40 050



Supply voltage 330volts	
Auxiliary contact	8A ac1
Operating temperature	0 to 70°C

# OPERATION



- 1. Over current mode selected ( rFc = ocr ): red led labeled HIGH and green led labeled TIMER go on when the current exceeds setting onS. The output relay energizes and yellow led goes on after elapse of delay set in ond. This condition persists until current drops below oFS for a time set by oFd. onS should be larger than oFS, otherwise status pages displays Err and relay will not function. Status page shows ocS if there is an over current, otherwise it shows noS.
- 2. Under current mode selected ( rFc = ucr ): red led labeled LOW and green led labeled TIMER go on when the current drops below setting onS. The output relay energizes and yellow led goes on after elapse of delay set in ond. This condition persists until current exceeds oFS for a time set by oFd. onS should be less than oFS, otherwise status pages displays Err and relay will not function. Status page shows ucS if there is an under current, otherwise it shows noS.
- 3. Over Under current mode selected ( rFc = our ): green led labeled TIMER goes on and the output relay energizes and yellow led goes on(Status page shows noS). This condition persists until current drops below oFS for a time set by oFd (red led labeled LOW goes on and Status page shows ucS), or when the current exceeds onS for a time set by ond (red led labeled HIGH goes on and Status page shows ocS). Once an over/under current status occurs, the relay stays de-energized even if the current value returns between oFS and onS. onS should be larger than oFS, otherwise status pages displays Err and relay will not function.

#### SETTING

Press the push button on the right to access the parameters menu. The up and down push buttons are used to scroll up and down respectively in the menu list. Pressing the push button on the right will edit the value of the parameter displayed. Use the up and down push buttons to respectively increase and decrease the value. Press the push button on the right to save new value. Following is a description of the parameters:

Display	Description	Range	Factory setting
Ctr	Current transformer ratio	0 to 9990A <sup>1</sup>	100A
onS	ON threshold setting in Amps	0 to 9990A <sup>1</sup>	25A
ond	ON delay setting	0 to 9m59s <sup>2</sup>	5s
oFS	Off threshold setting in Amps	0 to 9990A <sup>1</sup>	20A
oFd	Off delay setting	0 to 9m59s <sup>2</sup>	10s
rFc	Mode selection	ocr / ucr /	ocr
		our	
FST	Load factory setting	-	-
out	Exit menu	-	-

## **SPECIFICATION**

Operating voltage	90 to 285 volts
Auxiliary contact rating	5A 250V ac1 – 2A 415V ac1

## **INSTALLATION**

Connect terminals 1 and 2 to line and neutral respectively.

Connect terminal 3 and 4 to the current transformer.

Connect terminals 5, 6 and 7 as desired to disconnect the circuit when an abnormal condition is detected.

<sup>1</sup> Setting is in A for currents less than 1000A and in KA for currents equal or exceeding 1000A.

<sup>2</sup> The display shows the minutes and seconds separated by a dot.

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