



**BLACK  
CURRANT**

**LE ELECTRONICS Pvt. Ltd.**

**Product name: *Current Monitoring Relay (CMR)***  
**(45 mm series with Display)**



**Model No: (CMR-45)**

**Features:**

- True rms measurement
- CT ratio programmable
- Fault indication for UC, OC, UBC, RPC, SPPC\*
- Programmable display scan speed
- 32- bit microcontroller based design
- 12-bit ADC
- Compact, robust and light weight design
- Universal range auxiliary supply
- 3 Seven Segment Displays to display current of the three phases
- In built trip relay
- Individual delay settings for each fault

- *Smart* load switch off detection
- Selectable Single phase or 3 phase operation
- Manual / Remote reset with onboard reset switch

### Technical specifications:

**Measurement type:** 3 CT

**AC Auxiliary supply:** 90V AC to 270V AC, 50/60 Hz

**Input Voltage Range:** 50 V AC to 550 V AC

**Rated Input Current:** Nominal 5A

**CT Primary:** 5 to 1000 Programmable

**Resolution:** 0.01, 0.1, 1 (depending on Auto range)

**Burden on Line:** 0.05 VA per phase (Maximum)

**Burden on Aux:** 2 VA (Maximum)

**Accuracy class:** 0.5%

**Measurement:** *True RMS Measurement*

**Display Scan Time:** 1 – 9 seconds Programmable

**Display Scrolling:** Auto / Manual

**Display Type:** 7 segment LED; Height: 0.5"

**Digits:** 3 digits

**Dimensions (L x B x H mm):** 110 mm, 45 mm, 75 mm Approximately

**Mounting (L x W):** 35 mm din rail mounting

**Weight:** Grams

**Humidity:** < 95 % non- condensing

**Temperature:** Operating: 0° to 50° C

Storage: -20° to 75° C

### Current Trip Setting:

Under Current: 1 to 998 A

Over Current: 2 to 999 A

**Trip Time Delay:** Settable

**Power on Delay:** Settable

**Relay Contact rating:** 230VAC, 5A Max, NO-C-NC

### Applications:

- Generator Control Panel
- Distributive Control panel
- Electrical Control Panel
- Generator Sets
- Test Bench
- APFC Panel
- Energy Management
- Motor Control
- Auto Mains Failure Panels
- Battery Charger Panels
- Inverter Panels, UPS

**Contact:**



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\* UC- Under Current,  
OC- Over Current,  
UBC- Unbalanced Current,  
RPC- Reverse phase Current,  
SPPC- Single Phase Current Protection