



**BLACK
CURRANT**

LE ELECTRONICS Pvt. Ltd.

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



Model No: (VCMR-45)

Features:

- True rms measurement
- CT ratio programmable
- Fault indication for UV, OV, UBV, RPV, SPPV, UC, OC, UBC, RPC, SPPC*
- True phase difference measurement
- 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 voltage and 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 Phase: 3wire / 4 wire Single Phase: 2 wire
AC Auxiliary supply:	90V AC to 270V AC, 50/60 Hz
Input Voltage Range:	50 V AC to 550 V AC
Input Frequency:	30 to 90 Hz
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:	<i>True RMS Measurement</i>
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
Temperature:	Operating: 0 to 50 C Storage: -20 to 75 C
Weight:	235 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
Voltage Trip Setting:	Under Voltage: 50 to 525 Volts AC Over Voltage: 75 to 550 Volts AC
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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- * UV- Under Voltage,
OV- Over Voltage,
UBV- Unbalanced Voltage,
RPV- Reverse phase Voltage,
SPPV- Single Phase Voltage Protection,
UC- Under Current,
OC- Over Current,
UBC- Unbalanced Current,
RPC- Reverse phase Current,
SPPC- Single Phase Current Protection