PRELIMINARY



Features:

- 3Ø 3Wire Input
- Monitors Overload Current, Phase Asymmetry, Phase Failure & Phase Sequence
- LED Indication: Power ON, Trip
- Test and Reset buttons via front / remote
- DIN Rail Mount

Size: 52.5mm (Width)

Technical Specifications

Display

Туре	Analog
No. of LEDs	3

Input Specifications

	ci		

Measurements Overload Current, Phase Asymmetry, Phase

Failure & Phase Sequence

Alarm Indications Trip

Reset Auto / Manual / Remote

Electrical Connection 3Ø - 3Wire

Auxiliary Supply

Supply Voltage $230 / 415 \text{V AC} \pm 20\%$

System Supply 220 - 240 / 380 - 440V AC ±20%

VA Rating 3VA max. (Will vary)

Frequency 45 - 65Hz

Trip Settings

Phase Sequence Yes
Phase Failure Yes

Phase Asymmetry (Fixed) 50% of Motor Current ±10%

Trip Time Settings

Power On Delay (Fixed) <500ms Trip Time Delay (Fixed) $5.5s \pm 1.5s$

Overload Trip Delay As per IDMTL graph

Recovery Delay Time <250ms

For Overload As per curve (Cold curve)

Accuracy

Trip Setting Accuracy $\pm 5\%$ of set value
Time Setting Accuracy $\pm 5\%$ of setting ± 100 ms

CT Setting

CT Ratio (Will vary) 10A / 100mA 80A / 100mA

80A / 100mA 40A / 100mA

Output Specifications

Output Contact	2 C/O (SPDT)
Contact Rating	5A@240V AC
Electrical Life	1 x 10 ⁵ (100000)
Mechanical Life	1 x 10 ⁷ (10000000)

LED Indication

LED1 (Green)	Power ON
LED2 (Red)	Relay 1 (SP Continuously ON after trip)
LED3 (Red)	Relay 2 (OL Continuously ON after trip)

Environmental Specifications

Temperature	Operating: -5 to 60°C Storage: -20 to 75°C
Humidity (non-condensing)	Upto 95% RH
Degree of Protection	IP20 for Terminals IP30 for Enclosure

Mechanical Specifications

Rotating knob 1
Size 52.5mm (width)
Mounting DIN Rail

Weight 440 gms (Will vary)

Conductor cross section (Solid) 4 Sq mm@30A

Conductor cross section sleeved 1 x (0.5 to 2.5) Sq mm

(Standard)

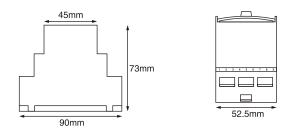
Screw tightening torque 0.5 N-m

LED Indication Chart

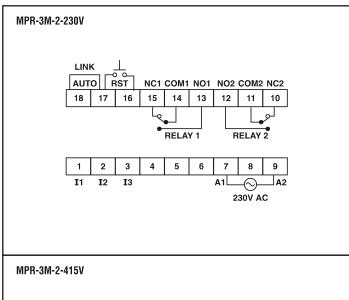
Conditions	Power ON	Relay 1	Relay 2	Relay Status
Nominal Condition	ON	OFF	OFF	ON
Overload Current	ON	ON	ON	OFF
Phase Reverse	ON	ON	ON	OFF
Phase Asymmetry	ON	ON	ON	OFF
Phase Failure	ON	ON	ON	OFF

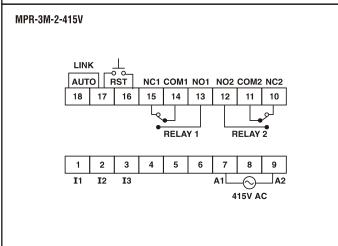
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Dimensions

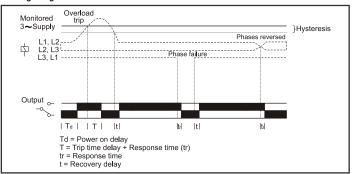


Terminal Connections

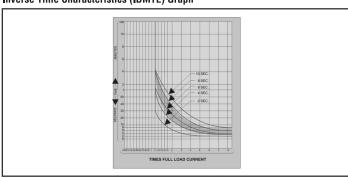




Timing Diagram



Inverse Time Characteristics (IDMTL) Graph



Ordering Information

Part No.	Supply Voltage	Certification
MPR-3M-2-230V	230V AC ±20%	
MPR-3M-2-415V	415V AC ±20%	

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