



DIN 52.5mm

Features:

- 3Ø 3 Wire Input
- Monitors Overload Current, Phase Asymmetry, Phase Failure & Phase Sequence, Under Current
- LED Indication : Power ON, Trip Relay
- Test and Reset Function via Front / Remote
- DIN Rail Mount
- DPDT Relay Output
- User Selectable Trip Time Curve and Motor Current Rating

Display Specifications

Туре	Analog	
No. of LED	3	
No. of Knob	2	
No. of Push Button	2	

LED Indication Chart

Conditions	Power ON	SP	OL
Nominal Condition	ON	OFF	OFF
Overload Current	ON	OFF	ON
Phase Reverse	ON	ON	OFF
Phase Asymmetry	ON	ON	OFF
Phase Failure	ON	ON	OFF
Under Current	ON	OFF	Blink

Input Specifications

Measurements

Overload Current, Phase Asymmetry, Phase

Failure & Phase Sequence, Under Current

Alarm Indications Trip

Reset Auto / Manual / Remote

Electrical Connection 3Ø - 3 wire

Trip Setting

Phase Sequence Yes
Phase Failure Yes

Phase Asymmetry (Fixed) 50% of Motor Current \pm Fixed

Under Current 50% of Motor Current

Trip Time Settings

Power On Delay (Fixed) <500ms

Trip Time Delay (Fixed) 5.5s ±1.5s

Overload Trip Delay As per IDMTL graph

Recovery Delay Time <250ms

For Overload As per IDMT curve

Under Current Trip 5sec

Accuracy

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

CT Setting

CT Ranges 10A,40A,80A

Recovery Setting

Automode: When healthy condition occurs device reset automatically after

15min. (Short terminal 17 & 18)

Remote / Manual : When healthy condition occur device reset by connecting

16 & 17 terminal or application of reset key.

Output Specifications

Relay Contact	2 C/O (DPDT)
Relay Rating	NC / 5A@240V AC N0 / 5A@240V AC

Auxiliary Supply Specification

Supply Voltage	230 / 415V AC ±15%
Frequency	45 / 65Hz
Power Consumption	3VA max

Environmental Specifications

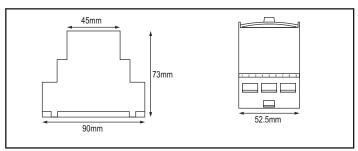
Temperature	Operating Temperature: 0° to 50°C Storage Temperature: -20° to 75°C
Humidity (non-condensing)	Upto 95% RH

Mechanical Specifications

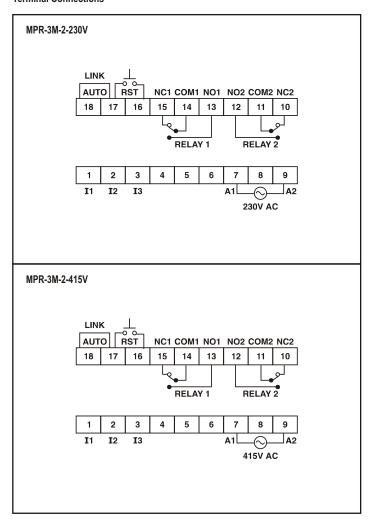
Mounting	DIN Rail
Weight	180gms
Screw Tightening Torque	0.5 NM

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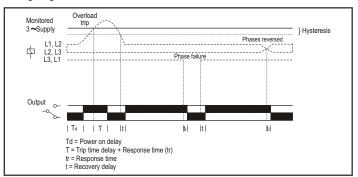
Dimensions



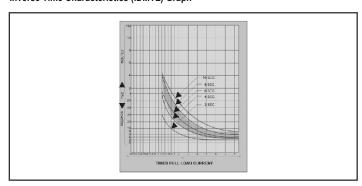
Terminal Connections



Timing Diagram



Inverse Time Characteristics (IDMTL) Graph



Ordering Information

Product Code	Supply Voltage	Certification
MPR-3M-2-230V	230V AC ± 15%	
MPR-3M-2-415V	415V AC ± 15%	

Product Code	INPUT CURRENT	Certification
MPCT D15 10 A	10 A	
MPCT D15 40 A	40 A	
MPCT D15 80 A	80 A	

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