

#### **FEATURES**

- Single Phase, Phase unbalance, Phase sequence, Overload trip current and Dry run
- User selectable trip time curve and
- · motor current rating
- Din rail mounting
- · DPDT relay output
- Auto. Manual and Remote reset function

## **SPECIFICATIONS**

#### **DISPLAY**

3 LED Indication

#### **AUXILIARY SUPPLY**

230V AC, ±15% (MPR-3M-2-230V)(Factory set) 415V AC, ±15% (MPR-3M-2-415V)(Factory set)

**FREQUENCY** 45-65Hz

**ELECTRICAL CONNECTION** 

3 Ø 3 wire

POWER RATING: 5VA max

## **TRIP SETTING**

Phase unbalance: 50% of motor current(fixed)

Dry run: 50% of rated current(fixed)

T(sec.) setting: To select 2 sec, 4 sec, 6 sec, 8 sec, 10 sec trip time curve in overload trip curve

graph (Refer graph 1)

x Imax: To select motor current rating

Motor current rating=(x Imax) x (CT max rating) (For Motor rated current selection refer table 1, 2, 3

for 10A, 40A, 80A CT respectively.)

#### TRIP TIME

Single phase trip: 5sec. Phase unbalance: 5sec. Phase sequence: 5sec.

Dry run trip: 5sec

Overload trip : As per graph 1

## RECOVERY SETTING

Auto mode: When healthy condition occurs device

reset automatically after 15 min.

(Short terminal 17 & 18)

Remote/manual reset: When healthy condition occurs device reset by connecting 16 and 17 terminal or by application of reset key.

### **ACCURACY**

Time : ±5% of full scale ±100msec

Current: ±5% of full scale

# **OUTPUT SPECIFICATION**

Output contact: 2 C/O (DPDT) Output rating : NC : 5A@ 240V AC NO:5A@ 240V AC

## LED INDICATION

ON (Green LED): Power ON

: Single phase, Phase unbalance, SP (Red LED)

Phase sequence

OL (Red LED) : Overload current, Dry run

#### MECHANICAL SPECIFICATIONS

Dimension: 52.5x90x73mm Mounting : 52.5mm DIN Rail mount Screw tightening torque: 0.5N.m

# -Indooruse

- Altitude of up to 2000 meters

**ENVIRONMENTAL SPECIFICATIONS** 

- Pollution degree 2

Temperature: Operating:0° to 50°C

Storage: -20° to 70°C

: Up to 95% RH, non-condensing Humidity

## Weight 180gms

# SAFETY PRECAUTIONS

All safety related codifications, symbols and instructions that appear in this operating manual or on the equipment must be strictly followed to ensure the safety of the operating personnel as well as the instrument.

If the equipment is not used in a manner specified by the manufacturer it might impair the protection provided by the equipment.

If there is physical damage to the unit then do not use it. Read complete instructions prior to installation and operation of the unit.

# WIRING GUIDELINES

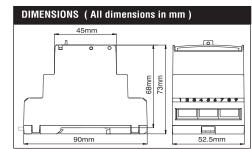
#### WARNING

- 1. To prevent the risk of electric shock power supply to the equipment must be kept OFF while doing the wiring
- 2. Wiring shall be done strictly according to the terminal layout with shortest connections. Confirm that all connections are correct.



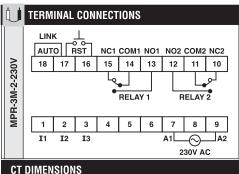
#### CAUTION

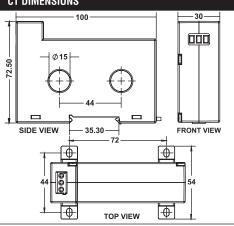
To ensure the safe operation of unit, check the wiring and connections.

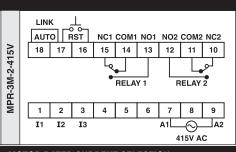


LED INDICATION CHART								
Various Conditions	'ON' LED	'SP' LED	'OL'	Relay				
Healthy Condition	ON	OFF	OFF	De-energized				
Single phase	ON	ON	OFF	Energized				
Phase Unbalance	ON	ON	OFF	Energized				
Phase Sequence	ON	ON	OFF	Energized				
Overload	ON	OFF	ON	Energized				
Dry run	ON	OFF	Blink	Energized				

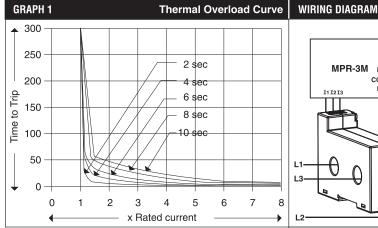
Doc. name: OP INST MPR-3M-2 OP489-V02(Page 1 of 2)\_

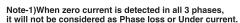






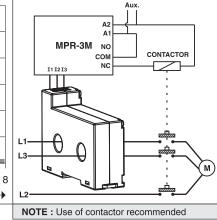
MOTOR RATED CURRENT SELECTION								
TABLE 1		TABI	LE 2	TABLE 3				
Knob Position	Motor Current Rating	Knob Position	Motor Current Rating	Knob Position	Motor Current Rating			
0.3	ЗА	0.3	12A	0.3	24A			
0.4	4A	0.4	16A	0.4	32A			
0.5	5A	0.5	20A	0.5	40A			
0.6	6A	0.6	24A	0.6	48A			
0.7	7A	0.7	28A	0.7	56A			
0.8	8A	0.8	32A	0.8	64A			
0.9	9A	0.9	36A	0.9	72A			
1.0	10A	1.0	40A	1.0	80A			





2)Test condition to be verified at no load condition.

ORDER CODE INFORMATION						
PRODUCT	SUPPLY	CERTIFICATION				
		C€	UL			
MPR-3M-2-230V	230V AC, ±15%	_	_			
MPR-3M-2-415V	415V AC, ±15%	_	_			



(Specifications are subject to change, since development is a continuous process.)

# Selec Controls Pvt. Ltd., India

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Doc. name: OP INST MPR-3M-2 OP489-V02(Page 2 of 2)