

DIN 70mm

#### Features:

- 1Ø 2 wire input
- Monitors Dry/Under Current, Over Current, Locked Current, Over Voltage, Under Voltage, Phase Failure and Overload .
- Direct current measurement up to 32A
- . LED indication : Power ON, Trip relay
- . Test & Reset function via key & terminal
- . Start & Stop Function by Push Button

## **Display Specifications**

Display

3 Digits, 7 Segment LED display

No of LED

2

LED 1- Red LED for relay status indication

LED 2- Green LED for pump status indication

No of keys

3

1- Set

2- Up / Test

3- Down / Reset

#### **LED Indication Chart**

Condition	Trip LED (Red)	'PUMP' LED (Green)
Healthy	OFF	OFF
Healthy & Motor ON	OFF	ON
Fault present	ON	OFF

# Input Specifications

Measuring range

A) Motor rated current 1A to 30A

B) Voltage measuring range 180 to 300V AC (L - N)

Time settings

Power ON delay 1sec (Fixed)
Trip time delay (Current & Voltage 0 - 999sec

parameters)

Reset Time (Current & Voltage 1 - 999sec

parameters)

Reset Attempts 3 (Fixed)
Reset Attempt Time Frame 1 - 999min

Hysteresis

Voltage 0 - 10V (Not applicable for current parameters)

Accuracy

 Current accuracy
  $\pm 5\%$  of rated current  $\pm 1$  digit

 Voltage accuracy
  $\pm 1\%$  of 300V  $\pm 1$  digit

 Time accuracy
  $\pm 5\% \pm 100$ msec

**Functional specification** 

Over load

NEMA class 5, 10, 15, 20, 30

Over current ranges

[Ir (Rated current) + 1 to 32A]

Under current

[0.2A to Ir (Rated current) - 1]

Locked current / Stall current

[Ir (Rated current) + 1 to 32A]

Over voltage

180V - 300V AC (L - N)

Under voltage

180V - 300V AC (L - N)

# **Output Specifications**

Control output	1 NO Relay
Relay rating	30A@277V AC

#### **Auxilliary Supply Specifications**

Operating voltage range	180V - 300V AC ( L - N )
Power consumption	40VA (max)
Frequency	50 - 60Hz

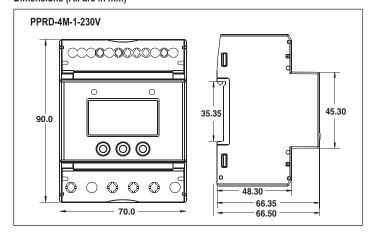
#### **Environmental Specifications**

	Operating temperature : 0°C to 55°C Storage temperature : -20°C to +70°C
Humidity (non-condensing)	Upto 95% RH

## **Mechanical Specifications**

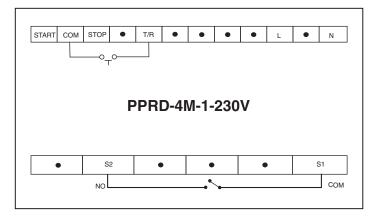
Mounting	DIN rail mount
Wire size (max)	4sq.mm
Size	66.50 x 70 x 90 x (H x W x L)
Screw tightening torque	0.5 NM
Weight	190 g approx

## Dimensions (All are in mm)



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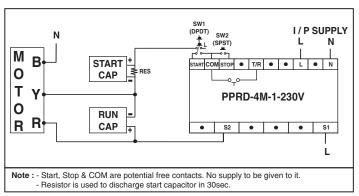
## **Terminal Connections**



# **Ordering Information**

Product code	Supply voltage	Certification
PPRD-4M-1-230V	180V - 300V AC ( L - N )	

## **Connection Diagram**



Recommended resistor value as per different motor rating	
Start Capacitor Value	Resistor Value
Upto 200uF/300VAC	100kOhm/2W

(Minimum 30sec delay required between two consecutive starts.)

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