

Features:

- 1Ø 2 Wire Input
- Monitors Over Load (As per NEMA Curve), Over Current, Under Current / Dry Run , Locked Current, Over Voltage, Under Voltage, Phase Failure
- Direct current measurement up to 32A
- LED Indication: Power ON, Trip Relay
- 4 Knob for Variable Setting
- Manual, Auto Reset
- Test & Reset Function Via Front / Remote
- **Settable Rated Currentt**

Display Specifications

No of LED 3

1 Green LED for Power on Indication 1st Red LED for Current indication 2nd Red LED for Voltage indication

No of Knobs

NEMA: **NEMA Class Selection** Trip Time Setting ΔΤ Over Current Setting OC DR Dry Run Current

Keys 2 Key's 1 - Test

2 - Reset (Press 3 sec to set rated current)

LED Indication Chart

Conditions	Power ON (Green)	Current (1 st Red LED)	Voltage (2 nd Red LED)
Healthy	ON	OFF	OFF
Over Voltage	ON	OFF	BLINKING
Under Voltage	ON	OFF	ON
Over Current	ON	BLINKING	OFF
Under Current	ON	ON	OFF
Phase Loss	ON	BLINKING	BLINKING
Locked Current	ON	BLINKING	ON
Overload	ON	ON	ON

Input Specifications

Measuring Range

A) Motor Rated Current Measuring 1A to 30A

B) Voltage Measuring Range 180 to 300V AC (L - N)

Time Setting

Power ON Delay 1sec (Fixed) Trip Time Delay 0, 2, 4, 6, 8 & 10 sec

(Current & Voltage parameters)

Auto Reset Time (Current & Voltage parameters)

15min

Phase Loss Trip Time Instantaneous (<120ms)

Auto Restart Attempts 3 (Fixed)

Restart Attempt Time Frame Over an interval of 60 min

Hysterersis

Voltage Fixed (6V)

(Not applicable for current parameters)

Accuracy

Current Accuracy +5% of rated current Voltage Accuracy ±1% of 300V Time Accuracy ±5% ±100msec

Functional Specification

Over Load NEMA class 5, 10, 15, 20, 30 **Over Current Ranges** 10% - 70% of Ir (Rated Current) 20% - 80% of Ir (Rated Current) **Under Current** Locked Current / Stall Current Fixed: 300% of Ir (Rated Current)

Over Voltage Fixed (280V) **Under Voltage** Fixed (180V) Phase Loss Yes (<160V)

Output Specifications

Control Output	1 NO Relay	
Control Cutput	1 NO Nelay	
Relay Rating	30A@277V AC	
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Auxiliary Supply Specifications

Operating Voltage Range	180 to 300V AC (L - N)
Power Consumption	40VA (max)
Frequency	50 - 60Hz

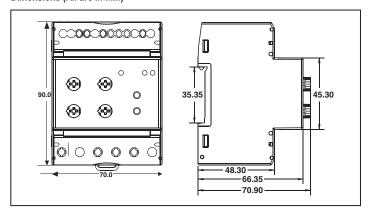
Environmental Specifications

Temperature	Operating Temperature : 0°C to 55°C Storage Temperature : -20°C to +70°C
Humidity (non Condensing)	Up to 95% RH

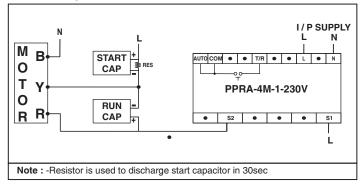
Mechanical Specifications

Mounting	DIN Rail Mount
Wire Size (max)	4 sq.mm
Size	66.50 x 70 x 90 (H x W x L)
Screw tightening torque	0.5 N-M
Weight	190gms approx

Dimensions (All are in mm)



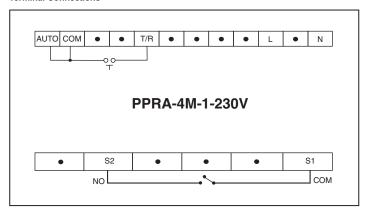
Connection Diagram



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.)

Terminal Connections



Ordering Information

Product Code	Supply Voltage	Certification
PPRA-4M-1-230V	180 to 300V AC (L - N)	

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