# PPRWD-4M-1



#### **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
D) Valtage maggining renge	190 to 200\/ AC // N\
B) Voltage measuring range	180 to 300V AC (L - N)
Time settings	
Power ON delay	1sec (Fixed)
Trip time delay (Current & Voltage	
parameters)	0 - 999sec
Recovery time (Current & Voltage	4 000
parameters)	1 - 999sec
Reset attempts	3 (fixed)
Reset Attempt Time Frame	1 - 999 mins
Hysteresis	
Voltage	0 - 10V (NA for current parameters)
Accuracy	
Current accuracy	±5% of rated current ±1 digit
Voltage accuracy	±1% of 300V ±1 digit
Time accuracy	±5% ±100msec
Functional specification	
Over load	NEMA class curve 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	180 - 300V AC ( L - N )
Under voltage	180 - 300V AC ( L - N )

### Features :

- 1Ø 2 wire input
- Automatic start & stop as per water level detection (Float switch)
- Monitors Dry/Under Current, Over Current, Locked Current, Over Voltage, Under Voltage, Phase Failure and Overload
- LED indication : Power ON, Trip relay
- Test & Reset function via key & terminal
- Direct Current measurement upto 32A
- Capacitor cut off feature

#### **Output Specifications**

Control output	2 NO relay
Relay rating	30A@277V AC

#### **Auxilliary Supply Specifications**

Operating voltage range	180 to 300V AC (L - N)
Power consumption	40VA
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	224 g approx

#### **Terminal Connections**



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# **Pump Protection Relay**

#### 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.)

## Ordering Information

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