



Socket



Description

- Single Phase Under & Over Voltage Relay: PM-011 is a relay designed to protect against under-voltage and over-voltage conditions in 1-phase electrical systems with voltage ratings of 110, 220, or 240 VAC $\pm 10\%$, 50/60 Hz.
- It monitors over-voltage in the range of 105–120% of the rated voltage and under-voltage in the range of 80–95% of the rated voltage.
- Suitable for protecting motors, compressors, or other equipment from damage caused by under-voltage or over-voltage conditions in a 1-phase electrical system.
- It is equipped with adjustment knobs for setting the under-voltage and over-voltage levels independently.
- It includes an LED indicator for under-voltage conditions (LL) and an LED indicator for over-voltage conditions (UL).

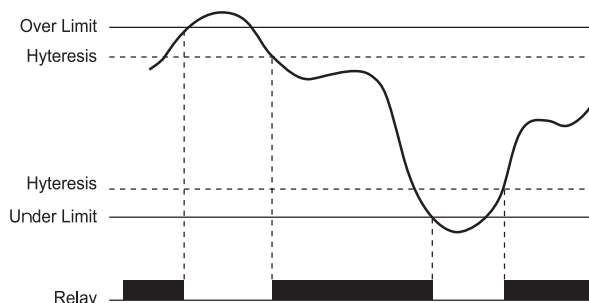
Operation

PM-011 is an under- and over-voltage protection relay that measures the supply voltage applied to it. If the voltage remains between the upper limit (UL) and the lower limit (LL), the relay contact will turn ON.

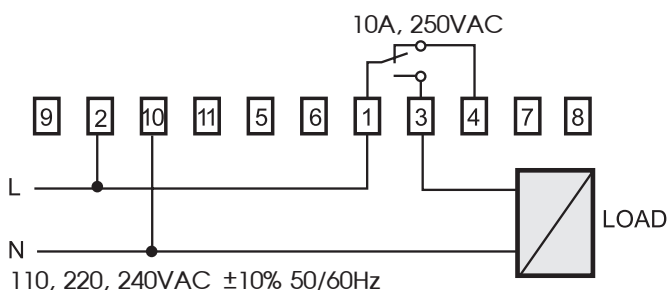
if the supply voltage exceeds the upper limit (UL) or falls below the lower limit (LL), the relay will turn OFF.

And it will turn ON again when the supply voltage falls to 2 volts below the upper limit (UL) and rises to 2 volts above the lower limit (LL).

Operation graph



Wiring Diagram



Ordering Code

PM-011 -

Power Supply	
110	110 VAC
220	220 VAC
240	240 VAC

Specification

Power Supply		Single Phase
		110, 220, 240VAC $\pm 10\%$ 50/60Hz
Power Consumption		2.5 VA
Display		Red LED (Under Voltage / Relay OFF)
		Red LED (Over Voltage / Relay OFF)
		LED Green (Relay ON)
Input	Scale Adjustment	Over Voltage Scale 105 to 120% Volt
		Under Voltage Scale 80 to 95% Volt
	Hysteresis	1 %
		Accuracy $\pm 2\text{VAC}$
Output	Relay Output	1 Relay Output 10A 250VAC
Ambient Operation	Temperature	-10°C to 60°C
	Humidity	85 % RH Non-Condensing
Ambient Storage	Temperature	-20°C to 80°C
	Humidity	85 % RH Non-Condensing
Protection Degree		IP40
Installation		DIN Rail Mounting
Material		ABS-V0
Size (mm.)		80 x 38 x 83.5
Weight (kg.)		210

Dimension

