



Description

- 3 Phase Under & Over Voltage and Phase Monitor Relay: PM-017 / PM-017N is a relay designed to protect against under-voltage, over-voltage, phase sequence errors, and phase loss in 3-phase electrical systems—3-phase 3-wire (PM-017) and 3-phase 4-wire (PM-017N).
- It is equipped with separate adjustment knobs for setting the under-voltage level between 80% and 95% of the rated voltage, and the over-voltage level between 105% and 120% of the rated voltage.
- It checks the phase sequence of the 3-phase power system to prevent motors from rotating in the wrong direction.
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- For the PM-017N model (3-phase 4-wire), if the neutral is lost, the relay will not operate.
- LED indicator that lights up when the relay is operating.
- Suitable for protecting 3-phase system loads from damage caused by under-voltage, over-voltage, incorrect phase sequence, and phase loss.

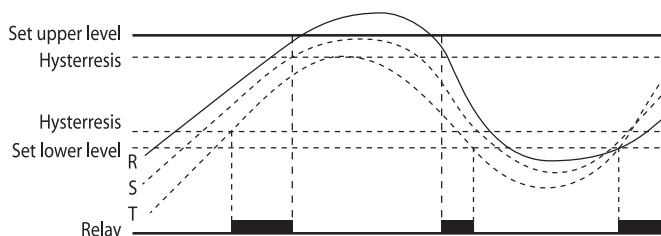
Specification

Model.		PM-017	PM-017N
Power Supply		3 Phase 3 Wire	3 Phase 4 Wire
		110, 220, 380, $\pm 10\%$ 50/60 Hz	
Power Consumption		2.5 VA	
Display		Red LED (Under Voltage / Relay OFF)	
		Red LED (Over Voltage / Relay OFF)	
		Red LED (Phase Sequence / Relay OFF)	
		Green LED (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	

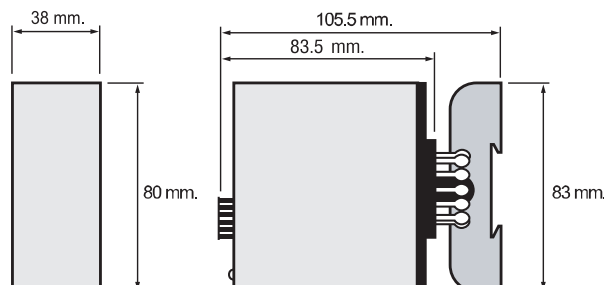
Operation

When the PM-017/PM-017N is connected to a 3-phase power system and the voltage is within the normal range (not exceeding the set UL or below the set LL), the phase sequence is correct (R S T), and all phases have voltage, the relay contact will operate to connect the load, with an LED indicating that the relay is active. However, if under-voltage or over-voltage occurs, the phase sequence is incorrect, or a phase is lost, the relay contact will stop operating to disconnect the circuit, and the LED will turn off, indicating that the relay has stopped, protecting the load from damage.

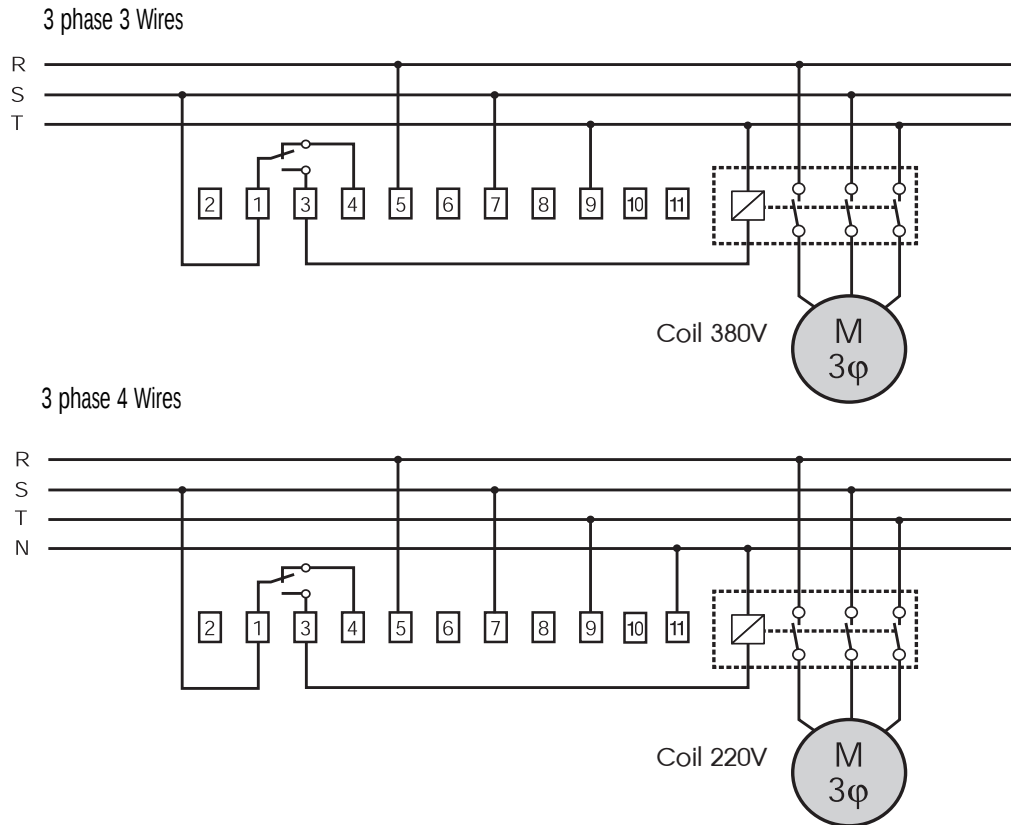
Operation graph



Dimension

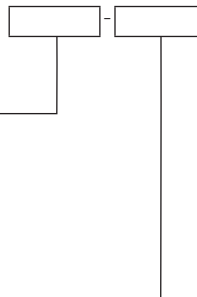


Wiring Diagram



Ordering Code

Electrical System	
PM-017	3 Phase 3 Wires
PM-017N	3 Phase 4 Wires
Voltage Supply	
110 VAC	3 x 110 VAC
220 VAC	3 x 220 VAC
380 VAC	3 x 380 VAC



* For model PM-017N
Power supply 380 VAC only