

## Features

- Protects against Phase Loss, Phase Reversal & Phase Asymmetry
- No Auxiliary Supply needed
- Voltage Sensing principle
- 1 C/O & 2 C/O Configurations
- Designed to meet Industrial and Agricultural segment applications

## Specification

Part Number	MP008400		MP008401
<b>Parameters</b>			
Supply Voltage	415V AC		
Frequency	50Hz to 60Hz		
Power Consumption	5 VA Max.		
Trip Settings	Phase Loss	Yes	
	Phase Sequence	Yes	
	Phase Asymmetry	65 V ( 10V)	40 V ( 10 V)
	Hysteresis	10 to 18 V	
Time Delay	ON Delay	2 s ( 2 s)	
	Trip Time (OFF Delay)	7 s ( 2 s)	
Output	Relay Output	1 C/O	
	Contact Rating	5A (For 'NO') & 3A (For 'NC') @ 250 VAC / 28V DC (Resistive)	
	Electrical Life	1 × 10 <sup>5</sup>	
	Mechanical Life	3 × 10 <sup>6</sup>	
Utilization Category	AC - 15	Rated Voltage (U <sub>e</sub> ): 120/240 V, Rated Current (I <sub>e</sub> ): 3.0/1.5 A	
	DC - 13	Rated Voltage (U <sub>e</sub> ): 24/125/250 V, Rated Current (I <sub>e</sub> ): 2.0/0.22/0.1 A	
LED Indication	Red—Relay ON (Healthy), See Note 1		
Operating Temperature	-15°C to +50°C		
Storage Temperature	-20°C to +65°C		
Humidity (Non Condensing)	95% (Rh)		
Enclosure	Flame Retardant UL94-VO		
Dimension (W x H x D)	36mm × 90mm × 60mm		
Weight (unpacked)	120 g		
Mounting	Base / DIN rail		
Degree of Protection	IP 20 for Terminal, IP 40 for Enclosure		

# Voltage Monitoring Relays

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## Features

- Phase loss (failure) detection
- Neutral loss detection
- Phase reverse detection
- Phase asymmetry
- Adjustable Over & Under voltage trip level
- LED indication for all failure conditions
- Automatic recovery on fault removal

## Specification

<b>Part Number</b>		<b>MP008404</b>			
<b>Parameters</b>					
Supply Voltage		415V AC (Ph-Ph); 3 Phase, 4 Wire			
Frequency		47Hz to 53Hz			
Power Consumption		10 VA Max.			
Trip Levels	Phase Loss	Yes			
	Phase Sequence	Yes			
	Phase Asymmetry	94V ± 4V (Ph-Ph)			
	Under Voltage	55% to 95%			
	Over Voltage	105% to 125%			
	Hysteresis	7 V ( 2 V)			
Time Delay	ON Delay	5 s ± 1 s			
	Trip Time (OFF Delay)	For Phase failure phase Imbalance Under voltage / Over Voltage	5 s ± 1 s (Fixed)		
		For Neutral Fail	500 ms - 1s		
Output	Relay Output	2 C/O			
	Contact Rating	5A @ 250V AC / 28V DC (Resistive)			
	Electrical Life	1 × 10 <sup>5</sup>			
	Mechanical Life	1 × 10 <sup>7</sup>			
Utilization Category	AC - 15	Rated Voltage (Ue): 120/240 V, Rated Current (Ie): 3.0/1.5 A			
	DC - 13	Rated Voltage (Ue): 24/125/250 V, Rated Current (Ie): 2.0/0.22/0.1 A			
LED Indication	Power ON	Respective fault condition will be indicated by LED immediately & Relay will be tripped after specified trip time only.			
		Green	UV	OV	Blink: ASY, ON: REV
		ON	OFF	OFF	OFF
	Phase reverse	ON	OFF	OFF	ON
	Asymmetry	ON	OFF	OFF	BLINK
	UV	ON	ON	OFF	OFF
	OV	ON	OFF	ON	OFF
	Phase Fail	BLINK	OFF	OFF	OFF
	Phase Fail *	BLINK	ON	OFF	BLINK
	Neutral Fail	ON	BLINK	BLINK	BLINK
* Phase fail indications when I/P voltages are below UV set point and below asymmetry					

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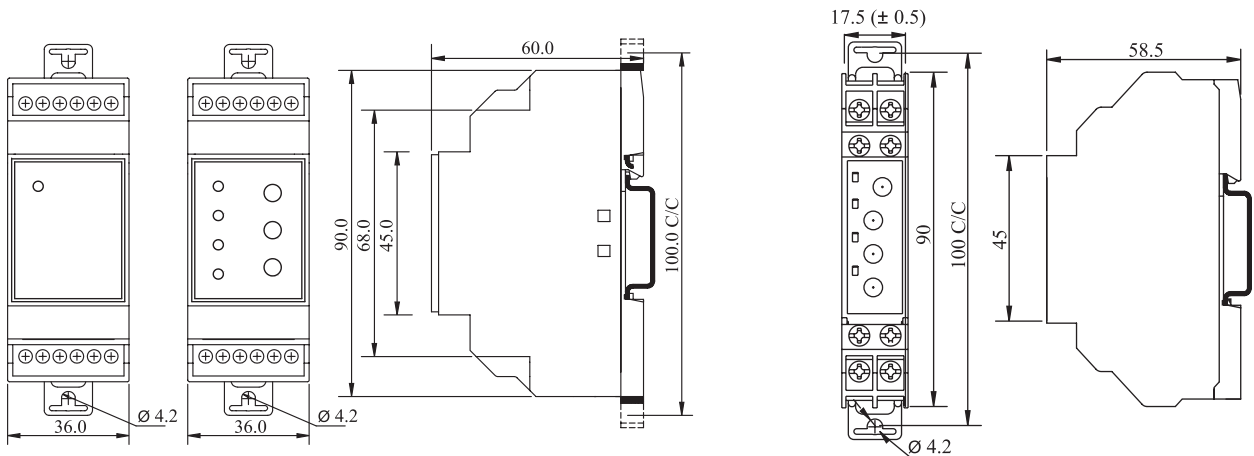
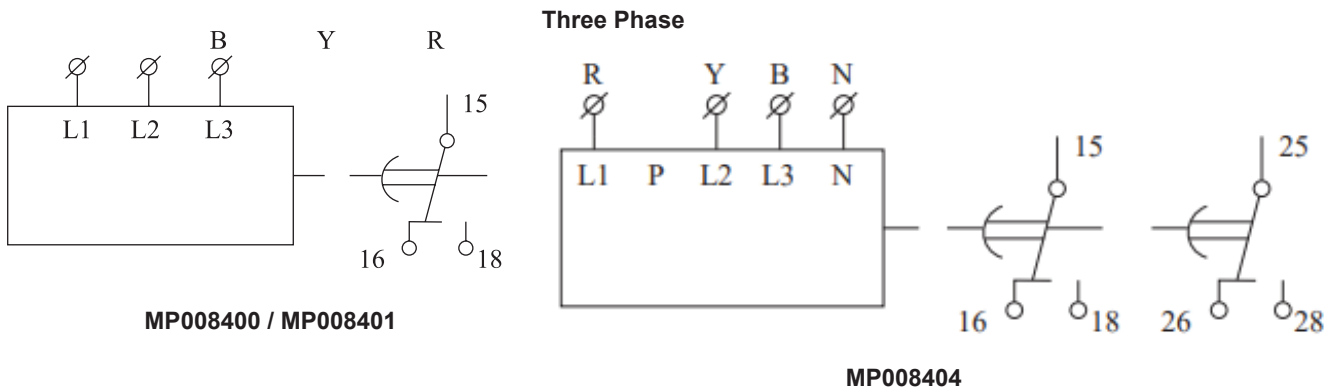
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# Voltage Monitoring Relays

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Operating Temperature	-10°C to +60°C
Storage Temperature	-10°C to +70°C
Humidity (Non Condensing)	95% (Rh)
Enclosure	Flame Retardant UL94-VO
Dimension (W x H x D)	36mm x 90mm x 60mm
Weight (unpacked)	120 g
Mounting	Base / DIN rail
Degree of Protection	IP 20 for Terminal, IP 40 for Enclosure

## Connection Diagram



Dimensions : Millimetres

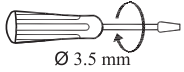

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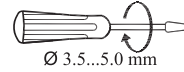

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# Voltage Monitoring Relays



## Terminal Torque & Capacity

 Ø 3.5 mm	Torque - 0.54 N.m (5 Lb.in) Terminal screw - M2.6
	Solid Wire - 1 X 0.2...3.3 mm <sup>2</sup>
AWG	1 X 24 to 12

 Ø 3.5...5.0 mm	Torque - 1.1 N.m (10 Lb.in) Terminal screw - M3.5
	Solid Wire - 2 X 0.2...2.5 mm <sup>2</sup>
AWG	1 X 24 to 10

## Product Selection Chart: Voltage Monitoring

Part Number	3-Phase 3-Wire	3-Phase 4-Wire	1 -Phase	Under Voltage Protection	Over Voltage Protection	Phase Loss Protection	Phase Sequence Protection	Phase Asymmetry Monitoring	Settable ON Delay	Settable OFF Delay	1 C/O Relay Output	2 C/O Relay Output	Neutral Loss Protection	115V AC	208 to 480V AC	240V AC	415V AC
MP008400	•					•	•	•			•						•
MP008401	•					•	•	•			•						•
MP008404		•		•	•	•	•	•				•	•				•

## Part Number Table

Description	Part Number
Single Phasing Preventor with 65V AC Asymmetry	MP008400
Single Phasing Preventor with 40V AC Asymmetry	MP008401
Neutral Loss Protection with Phase and Voltage Control	MP008404

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