

Phase Monitoring Relays multicomp^{PRO}

Features

- Compact 17.5mm Wide
- Protects against Phase Loss, Phase Reversal & Phase Asymmetry
- Multi-Voltage: 3 × 208 to 3 × 480V
- Selectable Under Voltage / Over Voltage & Asymmetry
- LED Indication for all Faults & for change in settings during run time for better security
- Adjustable Time Delay
- 1 C/O Configuration

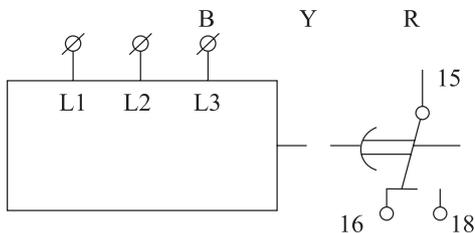
RoHS
Compliant

Specification

Part Number		MP008398
Parameters		
Supply Voltage	208 - 480V AC, (3 Phase 3 Wire)	
Supply Variation	-12% to +10%	
Frequency	50/60 Hz	
Power Consumption	3.5 VA Max.	
Trip Levels	Phase Loss	Yes
	Phase Sequence	Yes
	Phase Asymmetry	30% Fixed
Time Delay	ON Delay	< 750 ms
	Trip Time (OFF Delay)	100 ms
Output	Relay Output	1 C/O
	Contact Rating	5A @ 250V AC / 30V DC (Resistive)
	Electrical Life	1 × 10 ⁵
	Mechanical Life	3 × 10 ⁶
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	Healthy	Relay LED Continuous ON
	Phase Reverse	Relay LED Flashing
	Asymmetry	Relay LED Off (Red Colour)
Operating Temperature	-15°C to +60°C	
Storage Temperature	-20°C to +80°C	
Humidity (Non Condensing)	95% (Rh)	
Enclosure	Flame Retardant UL94-VO	
Dimension (W x H x D)	17.5mm × 90mm × 58.5mm	
Weight (unpacked)	70 g	
Mounting	Base / DIN rail	
Degree of Protection	IP 20 for Terminal, IP 30 for Enclosure	

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Connection Diagram



MP008398 / MP008399

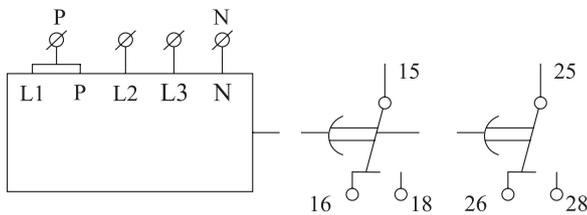
Part Number		MP008399
Parameters		
Supply Voltage		208 - 480V AC, (3 Phase 3 Wire)
Supply Variation		-12% to +10%
Frequency		50/60 Hz
Power Consumption		3.5 VA Max.
Settable Nominal Voltage		208 - 220 - 380 - 400 - 415 - 440 - 480V AC
Trip Levels	Phase Loss	Yes
	Phase Sequence	Yes
	Phase Asymmetry	10% Fixed
	Under Voltage	5% to -25%
	Over Voltage	+5% to +25%
Time Delay	ON Delay	0.5 to 100 s (Selectable)
	Trip Time (OFF Delay)	5 s
Output	Relay Output	1 C/O
	Contact Rating	5A @ 250V AC / 30V DC (Resistive)
	Electrical Life	1 × 10 ⁵
	Mechanical Life	3 × 10 ⁶
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	Healthy	Red LED: Supply Healthy Continuous ON, Phase Reverse Flashing
	UV	Red LED: Under Voltage Continuous ON
	OV	Red LED: Over Voltage Continuous ON
	Asymmetry All LED's	Red LED: Asymmetry Continuous ON Phase Fail or Higher Cut OFF(> 560V AC) or lower cut off (<175V AC), Blinking Pot changed during running conditions
Operating Temperature		-15°C to +60°C
Storage Temperature		-20°C to +80°C
Humidity (Non Condensing)		95% (Rh)
Enclosure		Flame Retardant UL94-VO
Dimension (W x H x D)		18mm × 59mm × 90mm
Weight (unpacked)		70 g
Mounting		Base / DIN rail
Degree of Protection		IP 20 for Terminal, IP 30 for Enclosure

Newark.com/multicomp-pro
Farnell.com/multicomp-pro
sg.element14.com/b/multicomp-pro

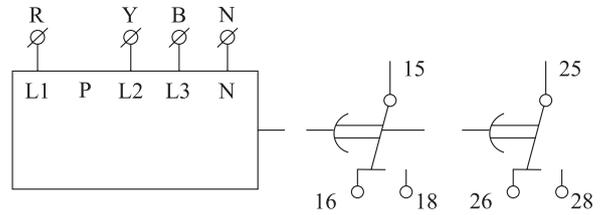
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Connection Diagram Single Phase



Three Phase



Part Number	MP008402		MP008403
Parameters			
Supply Voltage	240V AC (1 Phase & 3 Phase, 4 Wire)		
Frequency	50/60 Hz		
Power Consumption	5 VA		
Trip Settings	Phase Loss	Yes	
	Phase Sequence	Yes	
	Phase Asymmetry	10%	
	Under Voltage	55% to 95%	
	Over Voltage	105% to 125%	
	Hysterisis	7 V (±2 V)	
Time Delay	ON Delay	0.5 to 15 s (Selectable)	5 s
	Trip Time (OFF Delay)	5 s	0.5 to 15 s (Selectable)
Output	Relay Output	2 C/O	
	Contact Rating	5A @ 250V AC / 28V DC (Resistive)	
	Electrical Life	1 × 10 ⁵	
	Mechanical Life	3 × 10 ⁶	
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	Separate indications for Power ON, UV and OV; ON: Phase Reverse; BLINK: Phase Asymmetry		
Operating Temperature	-15°C to +55°C		
Storage Temperature	-25°C to +70°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		

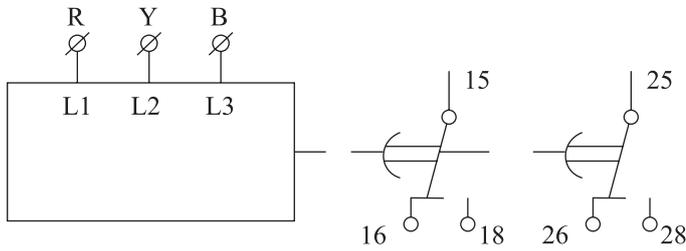
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Features

- Protects against Phase Loss, Phase Reversal & Phase Asymmetry
- Suitable for 3 Phase 3 Wire system
- Selectable Under Voltage / Over Voltage Trip level
- Selectable Time Delay
- Models for Selectable Phase Asymmetry
- LED Indications for Power and Fault conditions
- Voltage Sensing Principle
- 2 C/O Configuration

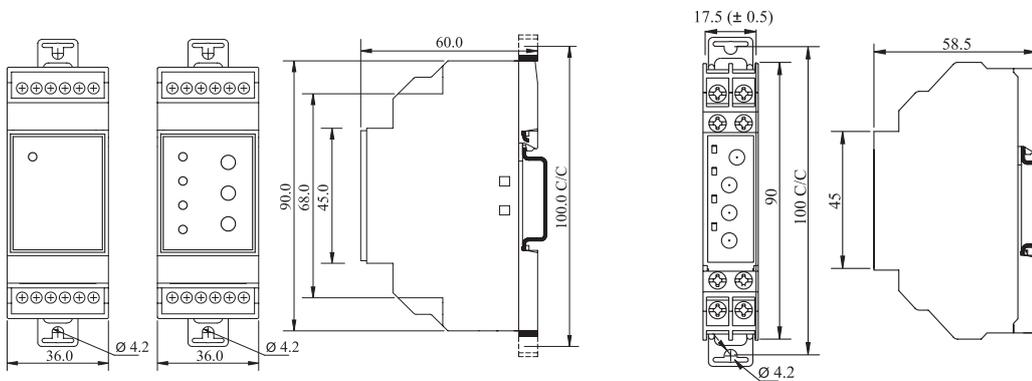
Part Number		MP008405	MP008406
Parameters			
Supply Voltage		415V AC (3 Phase, 3 Wire)	
Frequency		50-60 Hz	
Power Consumption		10 VA Max.	
Trip Settings	Phase Loss	Yes	
	Phase Sequence	Yes	
	Phase Asymmetry	10%	
	Under Voltage	55% to 95%	
	Over Voltage	105% to 125%	
Time Delay	Hysteresis	7 V (± 2 V)	
	ON Delay	0.5 to 15 s (Selectable)	5 s
Output	Trip Time (OFF Delay)	5 s	0.5 to 15 s (Selectable)
	Relay Output	2 C/O	
	Contact Rating	5A @ 250V AC / 28V DC (Resistive)	
	Electrical Life	1 $\times 10^5$	
Utilization Category	Mechanical Life	3 $\times 10^5$	
	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		Separate indications for Power ON, UV and OV; ON: Phase Reverse; BLINK: Phase Asymmetry	
Operating Temperature		-15°C to +55°C	
Storage Temperature		-25°C to +70°C	
Humidity (Non Condensing)		95% (Rh)	
Enclosure		Flame Retardant UL94-VO	
Dimension (W x H x D)		36mm \times 90mm \times 60mm	
Weight (unpacked)		120 g	
Mounting		Base / DIN rail	
Degree of Protection		IP 20 for Terminal, IP 40 for Enclosure	

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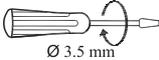
MP008405 / MP008406

Mounting Dimension



Dimensions : Millimetres

Terminal Torque & Capacity

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

	Torque - 1.1 N.m (10 Lb.in) Terminal screw - M3.5
	Solid Wire - 2 X 0.2...2.5 mm ²
AWG	1 X 24 to 10

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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
MP008398	*					*	*	*			*				*		
MP008399	*			*	*	*	*	*			*				*		
MP008402		*	*	*	*	*	*	*	*			*				*	*
MP008403		*	*	*	*	*	*	*	*			*				*	*
MP008405	*			*	*	*	*	*	*			*					*
MP008406	*			*	*	*	*	*		*		*					*

Part Number Table

Description	Part Number
Phase Loss, Phase Sequence, Phase Asymmetry Monitoring (Fixed)	MP008398
Single Phasing Preventor (SPP) with Selectable ON Delay	MP008399
Single Phasing Preventor (SPP) with Selectable ON Delay	MP008402
Single Phasing Preventor (SPP) with Selectable OFF Delay	MP008403
Single Phasing Preventor (SPP) with Selectable ON Delay	MP008405
Single Phasing Preventor (SPP) with Selectable OFF Delay	MP008406

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