- Protects against Phase Loss, Phase Reversal & Phase Asymmetry
- Can be configured for 3 Phase 4 Wire or 1 Phase system
- Selectable Over Voltage / Under Voltage Trip level
- Selectable Time Delay
- LED Indications for Power and Fault conditions
- Voltage Sensing principle
- 1 C/O or 2 C/O Configuration



### **Ordering Information**

Cat. No.	Description
MD71BH	240 VAC, UV / OV with Selectable ON Delay (0.5 to 15 sec), 1 C/O
MD71BF	240 VAC, UV / OV with Selectable OFF Delay (0.5 to 15 sec), 1 C/O
MD71B9	240 VAC, UV / OV with Selectable ON Delay (0.5 s to 15 min), 1 C/O



Cat. No.			MD71BH	MD71BF	MD71B9		
Parame	ters						
Supply Voltage (中)			240 VAC (1 Phase & 3 Phase, 4 Wire)				
Frequen	ncy		50/60 Hz				
	Consumption (	(Max.)	4 VA				
Trip	Phase Loss		Yes	Yes	Yes		
	Phase Sequence		N.A	N.A	N.A		
Settings	Phase Asymmetry		N.A	N.A	N.A		
Ü	Under Voltage		55% to 95% (of 中)				
	Over Voltage		105% to 125% (of 中)				
Time	ON Delay		0.5 to 15 s (Selectable)	5 s	0.5 s to 15 min (Selectable)		
Delay	Trip Time (OFF Delay)		5 s	0.5 to 15 s (Selectable)	5 s		
	Relay Outpu	ut	1 C/O				
Output	Contact Rating		5A @ 250 VAC / 28 VDC (Resistive)				
Output	Electrical Life		1X10 <sup>5</sup>				
	Mechanical Life		3X10 <sup>6</sup>				
Utilization Category AC - 15 DC - 13		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				
Operating Temperature Storage Temperature		re	-15° C To + 55° C -25° C To + 70° C				
Humidity (Non Condensing)		nsing)	95% (Rh)				
Enclosure			Flame Retardant UL 94-V0				
Dimension (W x H x D) (in mm)		O) (in mm)	36 X 90 X 60				
Weight (unpacked) Approx.		oprox.	120 g				
Mounting			Base / DIN rail				
Degree of Protection			IP 20 for Terminals, IP 40 for Enclosure				
Certification			CE ROHS Compliant				

#### EMI / EMC

Harmonic Current Emissions ESD	IEC 61000-3-2 IEC 61000-4-2
Radiated Susceptibility	IEC 61000-4-3
Electrical Fast Transients	IEC 61000-4-4
Surges	IEC 61000-4-5
Conducted Susceptibility	IEC 61000-4-6
Voltage Dips & Interruptions (AC)	IEC 61000-4-11
Conducted Emission	CISPR 14-1
Radiated Emission	CISPR 14-1

#### Environmental

 Cold Heat
 IEC 60068-2-1

 Dry Heat
 IEC 60068-2-2

 Vibration
 IEC 60068-2-6

 Repetitive Shock
 IEC 60068-2-27

 Non-Repetitive Shock
 IEC 60068-2-27

Note: 1) Voltage setting is with respect to Neutral. Voltage Setting Accuracy:  $\pm$  5 % of Full Scale; Time Setting Accuracy:  $\pm$  10 % of Full Scale



### **Ordering Information**

Cat. No.	Description
MG73B9	240 VAC, UV / OV & Single Phasing Preventor (SPP) with Selectable ON Delay (0.5 s to 15 min), 2 C/O
MG73BH	240 VAC, UV / OV & SPP with Selectable ON Delay (0.5 to 15 sec), 2 C/O
MGH3BH	220 VAC, UV / OV & SPP with Selectable ON Delay (0.5 to 15 sec), 2 C/O
MG73BF	240 VAC, UV / OV & SPP with Selectable OFF Delay (0.5 to 15 sec), 2 C/O
MGI3BF	230 VAC, UV / OV & SPP with Selectable OFF Delay (0.5 to 15 sec), 2 C/O



Cat. No.			MG73BH	MG73BF	MG73B9		
Parame	ters				'		
Supply Voltage (中)			240 VAC (1 Phase & 3 Phase, 4 Wire)				
Frequen	ncy		50/60 Hz				
Power C	Consumption	(Max.)	5 VA				
	Phase Loss		Yes				
<b>-</b> ·	Phase Sequence		Yes				
Trip Settings	Phase Asymmetry		10% (of 中)				
Jettings	Under Voltage		55% to 95% (of中)				
	Over Voltage		105% to 125% (of中)				
	Hysterisis		7 V (± 2 V)				
Time	ON Delay		0.5 to 15 s (Selectable)	5 s	0.5 s to 15 min (Selectable)		
Delay	Trip Time (OFF Delay)		5 s	0.5 to 15 s (Selectable)	5 s		
	Relay Outpu	ut	2 C/O				
Output	Contact Rat	ting	5A @ 250 VAC / 28 VDC (Resistive)				
Output	Electrical Life		1X10 <sup>5</sup>				
	Mechanical Life		3X10 <sup>6</sup>				
Litilizatio	on Category	AC - 15	Rated Voltage (Ue): 120/240 V, Rated Current (Ie): 3.0/1.5 A				
Otilizatio	on oatogory	DC - 13	Rated Voltage (Ue): 24/125/250 V, Rated Current (Ie): 2.0/0.22/0.1 A				
LED Ind	lication		Separate indications for Power ON, UV and OV; ON: Phase Reverse; BLINK: Phase Asymmetry				
Operating Temperature Storage Temperature			-15° C To + 55° C -25° C To + 70° C				
Humidity (Non Condensing)		ensing)	95% (Rh)				
Enclosu	re		Flame Retardant UL 94-V0				
Dimension (W x H x D) (in mm)		D) (in mm)	36 X 90 X 60				
Weight (unpacked)			120 g				
Mounting			Base / DIN rail				
Degree of Protection			IP 20 for Terminals, IP 40 for Enclosure				
Certification			C (RoHS Compliant				

_	M	. /	ВЛ	^
ᆮ	IVI		IVI	u

Harmonic Current Emissions IEC 61000-3-2 IEC 61000-4-2 Radiated Susceptibility IEC 61000-4-3 **Electrical Fast Transients** IEC 61000-4-4 Surges IEC 61000-4-5 Conducted Susceptibility IEC 61000-4-6 Voltage Dips & Interruptions (AC) IEC 61000-4-11 Conducted Emission CISPR 14-1 Radiated Emission **CISPR 14-1** 

#### Environmental

 Cold Heat
 IEC 60068-2-1

 Dry Heat
 IEC 60068-2-2

 Vibration
 IEC 60068-2-6

 Repetitive Shock
 IEC 60068-2-27

 Non-Repetitive Shock
 IEC 60068-2-27

Note: 1) Voltage setting is with respect to Neutral. Voltage Setting Accuracy: ± 5 % of Full Scale; Time Setting Accuracy: ± 10 % of Full Scale