Voltage Monitoring Series SM 501

- 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



Ordering Information

Cat. No.	Description
MG53BH	415 VAC, UV / OV & Single Phasing Preventor (SPP) with Selectable ON Delay (0.5 to 15 sec), 2 C/O
MG53BF	415 VAC, UV / OV & SPP with Selectable OFF Delay (0.5 to 15 sec), 2 C/O
MG63BH	220 VAC, UV / OV & SPP with Selectable ON Delay (0.5 to 15 sec), 2 C/O
MG63BF	220 VAC, UV / OV & SPP with Selectable OFF Delay (0.5 to 15 sec), 2 C/O

Voltage Monitoring Series SM 501



Cat. No.		MG53BH	MG53BF	MG63BH	MG63BF	
Parame	eters					
Supply Voltage (中)		415 VAC (3 Phase, 3 Wire)		220 VAC (3 Phase, 3 Wire)		
Frequency			50/60 Hz			
Power Consumption (Max.)		10 VA 5 VA				
Trip Settings	Phase Loss		Yes			
	Phase Sequ	ience	Yes			
	Phase Asym	nmetry	10% (of 中)			
	Under Volta	ge	55% to 95% (of 中)			
	Over Voltag	е	105% to 125% (of中)			
	Hysterisis		7 V (± 2 V) of Trip Voltage			
Time	ON Delay		0.5 to 15 s (Selectable)	5 s	0.5 to 15 s (Selectable)	5 s
Delay	Trip Time (C	OFF Delay)	5 s	0.5 to 15 s (Selectable)	5 s	0.5 to 15 s (Selectable)
	Relay Outpu	ut	2 C/O			
Output	Contact Rating		5A @ 250 VAC / 28 VDC (Resistive)			
Output	Electrical Life		1X10 ⁶			
	Mechanical Life		3X10 ⁶			
Utilization Category AC - 15 DC - 13		Rated Voltage (Ue): 120/240 V, Rated Current (Ie): 3.0/1.5 A				
		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 Storage Temperature		-15° C To + 55° C -25° C To + 70° C				
Humidity (Non Condensing)		95% (Rh)				
Enclosure		Flame Retardant UL 94-V0				
Dimension (W x H x D) (in mm)		36 X 90 X 60				
Weight (unpacked)		120 q				
Mounting		Base / DIN rail				
Degree of Protection		IP 20 for Terminals, IP 40 for Enclosure				
Certification		(E Total Compliant				

EMI / EMC

Harmonic Current Emissions	IEC 61000-3-2
ESD	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 Accuracy: \pm 5 % of Full Scale; Time Setting Accuracy: \pm 10 % of Full Scale

2) In the event of Phase Sequence or Phase Loss, OFF Delay is 100 ms