

Supply 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



Cat. No.		0506035GI	
Parameters			
Supply Voltage (ϕ)		415 VAC (3 Phase, 3 Wire)	
Frequency		50/60 Hz	
Power Consumption (Max.)		10 VA	
Trip Settings	Phase Loss	Yes	
	Phase Sequence	Yes	
	Phase Asymmetry	10% (of ϕ)	
	Under Voltage	55% to 95% (of ϕ)	
	Over Voltage	105% to 125% (of ϕ)	
	Hysteresis	7 V (\pm 2 V) of Trip Voltage	
Time Delay	ON Delay	5 s	
	Trip Time (OFF Delay)	0 to 15 s (Selectable)	
Output	Relay Output	2 C/O	
	Contact Rating	5A @ 250 VAC / 28 VDC (Resistive)	
	Electrical Life	1X10 ⁵	
	Mechanical Life	3X10 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		-10° C To + 55° C	
Storage Temperature		-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 g	
Mounting		Base / DIN rail	
Degree of Protection		IP 20 for Terminals, IP 40 for Enclosure	
Certification		 	
EMI / EMC			
Harmonic Current Emissions	IEC 61000-3-2	Ed. 3.0 (2005-11) Class A	
ESD	IEC 61000-4-2	Ed. 1.2 (2001-04) Level III	
Radiated Susceptibility	IEC 61000-4-3	Ed. 3.0 (2006-02) Level III	
Electrical Fast Transients	IEC 61000-4-4	Ed. 2.0 (2004-07) Level IV	
Surges	IEC 61000-4-5	Ed. 2.0 (2005-11) Level IV	
Conducted Susceptibility	IEC 61000-4-6	Ed. 2.2 (2006-05) Level III	
Voltage Dips & Interruptions (AC)	IEC 61000-4-11	Ed. 2.0 (2004-03) All 7 Levels	
Conducted Emission	CISPR 14-1	Ed. 5.0 (2005-11) Class A	
Radiated Emission	CISPR 14-1	Ed. 5.0 (2005-11) Class B	
Environmental			
Cold Heat	IEC 60068-2-1	Ed. 6.0 (2007-03)	
Dry Heat	IEC 60068-2-2	Ed. 5.0 (2007-07)	
Vibration	IEC 60068-2-6	Ed. 7.0 (2007-12) 5g	
Repetitive Shock	IEC 60068-2-27	Ed. 4.0 (2008-02) 40g, 6ms	
Non-Repetitive Shock	IEC 60068-2-27	Ed. 4.0 (2008-02) 30g, 15ms	

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

ORDERING INFORMATION

Cat. No.	Description
MG53BF	415 VAC, Under Voltage / Over Voltage & Single Phasing Preventor with Selectable OFF Delay (0.5 to 15 sec), 2 C/O