Supply Monitoring Series SM 501

- Protects against Phase Loss, Phase Reversal and Phase-Phase Unbalance
- Suitable for 3 phase 3 wire systems
- Selectable Over/Under voltage trip level
- Adjustable time delay
- Model for selectable Phase Asymmetry
- LED indications for power and fault conditions
- Voltage sensing principle
- 2 C/O configuration



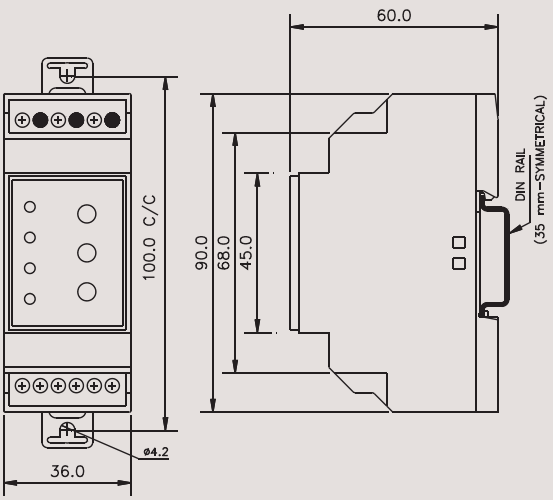
Cat. No.		MG53BH
Parameters		
Supply Voltage (⏚)		415 VAC
Frequency		48 - 63 Hz
Power Consumption (Max.)		10 VA
Trip Settings : Under Voltage Over Voltage Phase Reverse Detect Hysteresis Phase - Phase Unbalance		 55% - 95% (of ⏚) 105% - 125% (of ⏚) Yes 7 V ± 2V of trip voltage 10%
Time Delays ON Delay OFF Delay Setting Accuracy		 0.5 -15 s (adjustable) 5 s (fixed) ± 10 % of full scale
Relay Output		2 C/O (DPDT)
Contact Rating		5A (Resistive) @ 250 VAC / 28 VDC
Electrical Life		1 x 10^5
Mechanical Life		3 x 10^6
Utilization Category	AC - 15	Rated Voltage (Ue): 120/240 V, Rated Current (Ie): 3/1.5 A
	DC - 13	Rated Voltage (Ue): 24/125/250 V, Rated Current (Ie): 2.0/0.22/0.1 A
Operating Temperature Storage Temperature		- 10° C to +55° C - 25° C to +70° C
LED Indications		Separate indications for Power ON: UV, OV, ON: Phase Reverse, BLINK: Phase Unbalance
Enclosure Dimension (W x H x D) (in mm) Weight (unpacked)		UL 94V0 36 X 90 X 60 120 g
Mounting		Base / DIN rail
Degree of Protection		IP 20 for Terminals, IP 40 for Enclosure
Certification		CE RoHS Compliant
EMI/ EMC Radio Interference Suppression ESD Electrical Fast Transients Surges Voltage Dips, Interruptions Isolation		 CISPR 14-1 Ed. 5.0 (2005-11) Class B IEC 61000-4-2 Ed. 1.2 (2001-04) Level II IEC 61000-4-4 Ed. 2.0 (2004-07) Level IV IEC 61000-4-5 Ed. 2.0 (2005-11) Level IV IEC 61000-4-11 Ed. 2.0 (2004-03) All 7 Levels (AC), IEC 61000-4-29 Ed. 1.0 (2000-08) All 5 Levels (DC) Test voltage between input & output - IEC 60255-5, 2kV

Note: 1) In the event of Phase sequence or phase loss, OFF delay is 100 ms

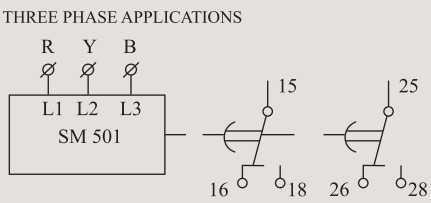
ORDERING INFORMATION

Cat. No.	Description
MG53BH	415 VAC, adjustable 0.5 - 15 s On & 5 s fixed Off Delay time, 2 C/O

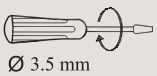
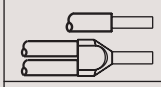
MOUNTING DIMENSION (mm)



CONNECTION DIAGRAM



TERMINAL TORQUE & CAPACITY

 Ø 3.5 mm	Torque 0.54 N.m (5 Lb. in) Terminal Screw - M 2.5
	1 x 0.2 - 3.3 mm^2 Solid Wire / single wire ferrule 2 x 0.2 - 1 mm^2 Insulated with twin ferrule
AWG	1 x 24 to 12