



# Supply Monitoring Series SM 501



Cat. No.		MG53BI	MG53BO	MB53BM
<b>Parameters</b>		Codigo NDU 0506036GI		
Supply Voltage ( $\phi$ )		415 VAC (3 Phase, 3 Wire)		
Frequency		50/60 Hz		
Power Consumption (Max.)		10 VA		
Trip Settings	Phase Loss	Yes	Yes	Yes
	Phase Sequence	Yes	Yes	Yes
	Phase Asymmetry	94 V	10%	5% to 17%
	Under Voltage	55% to 95% (of $\phi$ )	85% (of $\phi$ ) Fixed	80% (of $\phi$ ) Symmetrical
	Over Voltage	105% to 125% (of $\phi$ )	110% (of $\phi$ ) Fixed	N A
	Hysteresis	7 V ( $\pm$ 2 V) of Trip Voltage	7 V ( $\pm$ 2 V) of Trip Voltage	7 V ( $\pm$ 2 V) of Input Voltage
Time Delay	ON Delay	5 s	3 min	0.5 to 15 s (Selectable)
	Trip Time (OFF Delay)	5 s	5 s	0.5 to 15 s (Selectable)
Output	Relay Output	2 C/O		
	Contact Rating	5A @ 250 VAC / 28 VDC (Resistive)		
	Electrical Life	1X10 <sup>5</sup>		
	Mechanical Life	3X10 <sup>6</sup>		
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		 		
<b>EMI / EMC</b>				
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		
<b>Environmental</b>				
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		

## ORDERING INFORMATION

Cat. No.	Description
MG53BI	415 VAC, Under Voltage / Over Voltage & Single Phasing Preventor with 94 V Asymmetry, 2 C/O
MG53BO	415 VAC, Under Voltage / Over Voltage & Single Phasing Preventor with 3 min ON Delay & 5s OFF Delay, 2 C/O
MB53BM	415 VAC, Under Voltage & Single Phasing Preventor with Selectable Asymmetry (5% to 17%), 2 C/O

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