Supply Monitoring Series SM 301

- Protects against Phase Loss, Phase Reversal & Phase Asymmetry
- No Auxiliary Supply needed
- Voltage Sensing principle
- 1 C/O
- Designed to meet Industrial and Agricultural segment applications



Cat. No.			MA51BC
Parameters			
Supply Voltage (⏚)			
Frequency			
Power Consumption (Max.)			
Trip Settings	Phase Loss		Yes
	Phase Sequence		Yes
	Phase Asymmetry		65 V (± 10V)
	Hysteresis		10 to 18 V
Time Delay	ON Delay		2 s (± 2 s)
	Trip Time (OFF Delay)		7 s (± 2 s)
Output	Relay Output		1 C/O
	Contact Rating	5A (For 'NO') & 3A (For 'NC') @ 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		Red→Relay ON (Healthy)	
Operating Temperature		- 10° C to + 50° C	
Storage Temperature		- 20° C to + 65° 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		IP20 for Terminals, IP 40 for Enclosure	
Certification		CE RoHS Compliant	

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 II
Radiated Susceptibilty	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 Susceptibilty	IEC 61000-4-6	Ed. 2.2 (2006-05) Level III
Voltage Dips & Interruptions (AC)	IEC 61000-4-11	Ed. 2.0 (2004-03) Level 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 A

Envir onmental		
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
MA51BC	415 VAC, Single Phasing Preventor with 65 VAC Asymmetry, 1 C/O

Note 1:- ON: Relay ON, OFF: Phase Loss, Blinking: Asymmetry (200 ms, On/Off), Flashing: Phase Sequence (1 s, On/Off)