Voltage Monitoring Series SM 301

- · Protects against Phase Loss, Phase Reversal & Phase Asymmetry
- · No Auxiliary Supply needed
- · Voltage Sensing principle
- 1 C/O & 2 C/O Configurations
- · Designed to meet Industrial and Agricultural segment applications



Ordering Information

Cat. No.	Description
MA51BC	415 VAC, Single Phasing Preventor with 65 VAC Asymmetry, 1 C/O
MA51BK	415 VAC, Single Phasing Preventor with 40 VAC Asymmetry, 1 C/O $$
MC21B5	415 VAC, Single Phasing Preventor with 65 VAC Asymmetry, 2 C/O
MA59B5	415 VAC, Phase Loss Monitoring with Non Fail Safe Type, 1 C/O

Voltage Monitoring Series SM 301



Cat. No.			MA51BC	MA51BK	MC21B5	
Parame	ters					
Supply Voltage (⇌)			415 VAC			
Frequency			50/60 Hz			
Power Consumption (Max.)		Max.)	15 VA			
Trip Settings	Phase Loss		Yes	Yes	Yes	
	Phase Sequence		Yes	Yes	Yes	
	Phase Asymmetry		65 V (± 10V)	40 V (± 10 V)	65 V (± 10V)	
	Hysteresis		10 to 18 V	10 to 18 V	10 to 18 V	
Time Delay	ON Delay		2 s (± 2 s)	2 s (± 2 s)	< 550 ms	
	Trip Time (OFF Delay)		7 s (± 2 s)	7 s (± 2 s)	< 550 ms	
Output	Relay Output		1 C/O	1 C/O	2 C/O	
	Contact Rat		5A (For 'NO') & 3A (For 'NC') @ 250 VAC / 28 VDC (Resistive)			
	Electrical Li	fe	1X10⁵			
	Mechanical	Life	3X10 ⁶			
Utilization Category AC - 15 DC - 13		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), See Note 1			
Operating Temperature		re	- 15° C to + 50° C			
Storage Temperature			- 20° C to + 65° C			
Humidity (Non Condensing)		nsing)	95% (Rh)			
Enclosure			Flame Retardant UL 94-V0			
Dimension (W x H x D) (in mm)		O) (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 Rolls Compliant			

EMI / EMC

IEC 61000-3-2 Harmonic Current Emissions IEC 61000-4-2 Radiated Susceptibility IEC 61000-4-3 IEC 61000-4-4 **Electrical Fast Transients** IEC 61000-4-5 Surges 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