



SAVEAIR
Technologies Pvt Ltd



Product Catalogue

Contact For Any Enquiry

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Voltage Monitoring Series SM500 - Neutral Loss Protection

- Phase loss (failure) detection
- Neutral loss detection
- Phase reverse detection
- Phase asymmetry
- Adjustable Over & Under voltage trip level
- LED indication for all failure conditions
- Automatic recovery on fault removal



Ordering Information

Cat. No.	Description
MAC04D0100	415 VAC, Neutral Loss Protection with Phase and Voltage Control, 2 C/O
MAC04D0119	380 VAC, Neutral Loss Protection with Phase and Voltage Control, 2 C/O
MAC04D0121	415VAC, Neutral Loss Protection with Phase & Voltage Control, Phase reverse disable, 2C/O
MAC04D0123	Selectable reference voltage (220-480VAC), Neutral Loss Protection with Phase & Voltage Control, 2C/O

Voltage Monitoring Series SM500 - Neutral Loss Protection



Cat. No.		MAC04D0100				
Parameters						
Supply Voltage (Φ)		415 VAC (Ph-Ph); 3 Phase, 4 Wire				
Frequency		47 to 53 Hz				
Power Consumption (Max.)		10 VA (max)				
Trip Settings	Phase Loss	Yes				
	Phase Sequence	Yes				
	Phase Asymmetry	94V ± 4V (Ph-Ph)				
	Under Voltage	55% to 95% (of Φ)				
	Over Voltage	105% to 125% (of Φ)				
	Hysterisis	7 V (± 2 V)				
Time Delay	ON Delay	5 s ±1 s (Fixed)				
	Trip Time (OFF Delay)	For Phase failure phase Imbalance Under voltage / Over Voltage	5 s ±1 s (Fixed)			
		For Neutral Fail	500 ms -1s			
Output	Relay Output	2 C/O				
	Contact Rating	5A @ 240 VAC / 28 VDC (Resistive)				
	Electrical Life	1X10 ⁵				
	Mechanical Life	1X10 ⁷				
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 Indications on front plate	Power ON	Respective fault condition will be indicated by LED immediately & Relay will be tripped after specified trip time only.				
		GREEN	UV	OV	Blink: ASY, ON: REV	
		ON	OFF	OFF	OFF	
		ON	OFF	OFF	ON	
		ON	OFF	OFF	BLINK	
		ON	ON	OFF	OFF	
		ON	OFF	ON	OFF	
		BLINK	OFF	OFF	OFF	
		BLINK	ON	OFF	BLINK	
		Neutral Fail	ON	BLINK	BLINK	BLINK
* Phase fail indications when I/P voltages are below UV set point and below asymmetry						
Operating Temperature		-10° C To + 60° C				
Storage Temperature		-10° 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
ESD	IEC 61000-4-2
Radiated Susceptibility	IEC 61000-4-3
Electrical Fast Transients	IEC 61000-4-4
Surges	IEC 61000-4-5
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
Vibration	IEC 60068-2-6
Repetitive Shock	IEC 60068-2-27
Non-Repetitive Shock	IEC 60068-2-27