



Supply 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.



Cat. No.		MAC04D0100				Codigo NDU 0506039GI	
Parameters							
Supply Voltage (Φ)		415 VAC (Ph-Ph); 3 Phase, 4 Wire					
Frequency		50/60 Hz					
Power Consumption (Max.)		10 VA					
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 @ 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 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 LED	RED LED 1	RED LED 2	RED LED 3		
		ON	OFF	OFF	OFF		
		ON	OFF	OFF	ON		
		ON	OFF	OFF	BLINK		
		ON	ON	OFF	OFF		
		ON	OFF	ON	OFF		
		BLINK	OFF	OFF	OFF		
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		 					
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 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 A			
Environmental							
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
MAC04D0100	415V AC, Neutral Loss Protection with Phase and Voltage Control, 2 C/O