Voltage Monitoring Series SM 175

- Compact 17.5 mm Wide
- Protects against Phase Loss, Phase Reversal & Phase Asymmetry
- Multi-Voltage: Three Phase wire @ 208 480 VAC
- Selectable Under Voltage / Over Voltage & Asymmetry
- · LED Indication for all Faults & for change in settings during run time for better security
- · Adjustable Time Delay
- 1 C/O Configuration



Ordering Information

Cat. No.	Description
MN21D5	208 - 480 VAC, Phase Loss Monitoring, 1 C/O
MK21D5	208 - 480 VAC, Phase Loss, Phase Sequence Monitoring , 1 C/O
MC21D5	208 - 480 VAC, Phase Loss, Phase Sequence, Phase Asymmetry Monitoring (30% Fixed), 1 C/O
MA21DN	208 - 480 VAC, Phase Loss, Phase Sequence, Phase Asymmetry Monitoring (5% to 15% Variable), 1 C/O
MOF1D51	208 - 480 VAC, Phase Loss, Phase Asymmetry Monitoring (10% Fixed), with trip time < 65 ms. 1 C/O

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Cat. No.			MN21D5	MK21D5	MC21D5	MA21DN		
Parame	eters							
Supply Voltage (ф)		=)	208 - 480 VAC, (3 Phase 3 Wire)					
Supply Variation			-12% to + 10% (of 中)					
Frequency			50/60 Hz					
Power Consumption (Max.)		on (Max.)	3.5 VA					
Trip Levels	Phase Loss		Yes	Yes	Yes	Yes		
	Phase	Sequence	NA	Yes	Yes	Yes		
	Phase Asymmetry		NA	NA	30% Fixed	5% to 15%		
Time	ON Del	ay	< 750 ms	< 750 ms	< 750 ms	5s		
Delay	Trip Time (OFF Delay)		< 65 ms	100 ms	100 ms	0.5 to 15 s (Selectable)		
Output	Relay Output		1 C/O					
	Contact Rating		5A @ 250 VAC / 30 VDC (Resistive)					
	Electrical Life		1X10 ⁵					
	Mechanical Life		3X10 ⁶					
Litilization	Utilization Category AC - 15		Rated Voltage (Ue): 120/240 V, Rated Current (le): 3.0/1.5 A					
Otilization Category		DC - 13	Rated Voltage (Ue): 24/125/250 V, Rated Current (Ie): 2.0/0.22/0.1 A					
		Healthy	Relay LED Continuous ON					
		Phase Reverse	NA	Relay LED Flashing				
		Asymmetry	Relay LED Off (Red Colour)	NA	Relay LED Off (Red Colour)		
Operating Temperature Storage Temperature			- 15° C to +60° C - 20° C to +80° C					
Humidity (Non Condensing)		ndensing)	95% (Rh)					
Enclosure			Flame Retardant UL 94-V0					
Dimension (W x H x D) (in mm)		l x D) (in mm)	17.5 X 90 X 58.5					
Weight (unpacked)		d)	70 g					
Mounting			Base / DIN rail					
Degree of Protection		ion	IP 20 for Terminal, IP 30 for Enclosure					
Certification			C C CULISTED Compliant					

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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