Voltage Monitoring Series SM 175



Ordering Information

Cat. No.	Description
MD21DF	208 - 480 VAC, UV / OV, Phase Loss & Sequence with Selectable OFF Delay, 1 C/O
MG21DH	208 - 480 VAC, UV / OV & SPP with Selectable ON Delay, 1 C/O
MG21DF	208 - 480 VAC, UV / OV & SPP with Selectable OFF Delay, 1 C/O
MGD1DR	208 - 480 VAC, UV / OV & SPP with Selectable ON Delay & OFF Delay, 1 C/O
MAE03D0200	240 VAC/DC, UV / OV with Selectable ON & OFF Delay, 1 C/O
MF41B0	230 VAC, Single Phase Under Voltage Relay
MF51B0	400 VAC, Three Phase Under Voltage Relay

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Cat. No.			MD21DF	MG21DH	MG21DF	MGD1DR	
Parame	eters						
Supply Voltage (中)			208 - 480 VAC, (3 Phase 3 Wire) 400 VAC, (3 Phase 3			400 VAC, (3 Phase 3 Wire	
Supply Variation			-12% to + 10% (of中)				
Frequency			50/60 Hz				
Power Consumption (Max.)		n (Max.)	3 VA				
Settable Nominal Voltage		/oltage	208 - 220 - 380 - 400 - 415 - 440 - 480 VAC N A				
	Phase Loss		Yes				
	Phase Se	equence	Yes				
Trip	Phase As	ymmetry	NA	10% Fixed			
Levels	Under Vo	Itage	-2% to -20% (of 中)	-5% to -25% (of 中)			
	Over Volt	age	+2% to +20%(of ф)	+5% to +25%(of 中)			
Time	ON Delay	,	5 s	0.5 to 100 s (Selectable)	5 s	0.5 to 100 s (Selectable)	
Delay	Trip Time	(OFF Delay)	0.5 to 15 s (Selectable)	5 s	0.5 to 100 s (Selectable)	0.5 to 15 s (Selectable)	
	Relay Output		1 C/O				
0	Contact Pating		5A @ 250 VAC / 30 VDC (Resistive)				
Output	Electrical	Life	1X10 ⁵				
	Mechanical Life		3X10 ⁶				
Litilizatio	n Category	AC - 15	Rated Voltage (Ue): 120/240 V, Rated Current (Ie): 3.0/1.5 A				
Utilizatio	on Category	DC - 13	Rated Voltage (Ue): 24/125/250 V, Rated Current (Ie): 2.0/0.22/0.1 A				
		Healthy	Red LED: Supply Healthy → Continuous ON, Phase Reverse → Flashing				
		UV	Red LED: Under Voltage → Continuous ON				
LED Inc	dication	OV	Red LED: Over Voltage → Continuous ON				
		Asymmetry	Red LED: Asymmetry → Continuous ON				
		All LED's	Phase Fail or Higher Cut O	FF(> 560 VAC) or lower cut off	(<175 VAC), Blinking → Pot of	changed during running condition	
Operating Temperature Storage Temperature			- 15° C to +60° C - 20° C to +80° C				
Humidity (Non Condensing)		95% (Rh)					
Enclosure			Flame Retardant UL 94-V0				
Dimension (W x H x D) (in mm)			18 X 90 X 58.5				
Weight (unpacked) Approx.			70 g				
Mounting			Base / DIN rail				
Degree of Protection			IP 20 for Terminal, IP 30 for Enclosure				
Certification			C C LISTED US Compliant				

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