Supply Monitoring Series SM 175

- Compact 17.5 mm wide
- Multi-voltage from 3 x 208 to 3 x 480 V
- Controls correct sequence of three phases & own supply voltage
- LED indication for all faults & for change in settings during run time for better security
- 1 C/O configuration
- Selectable Under voltage / Over voltage / Asymmetry levels
- Adjustable time delay



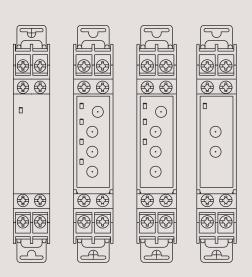
Cat. No	Cat. No.		MK21D5	MC21D5	MA21DN	MD21DF	MG21DH	
Parameters								
Supply Volta	age (中)		3 Phase 3 Wire, 208	- 480 VAC, 45 - 65 Hz	Z			
Supply Variation			-12% to + 10% (of中)					
Power Consumption (Max.)			3 VA					
Settable Nominal Voltage (Un)			N A 208 - 220 - 380 - 400 - 415 - 440 - 480 VAC					
Under Voltage Trip Levels: Over Voltage		N A -2% to -20% (Un) -			-5% to -25% (Un)			
		NA			+2% to +20% (Un)	+5% to +25% (Un)		
	Asymmetry		NA	30% Fixed	5% to 15%	N A	10% Fixed	
Setting Accuracy			+/- 5% of full scale					
Time Delay Setting Accu		ON Delay	~ 500 ms		5 s (Fixed)	5 s (Fixed)	0.5 to 100 s	
+/- 10% of I	•	OFF Delay	~ 100 ms		0.5 to 15 s	0.5 to 15 s	5 s (Fixed)	
			In the event of phase sequence or phase loss fault, OFF delay is ~100ms					
Relay Output Contact Rating Mechanical Life Electrical Life			1 C/O (SPDT) 5A (Resistive) @ 250 VAC / 30 VDC 3 x 10° 1 x 10 ⁵					
Utilization Category AC - 15		AC - 15	Rated Voltage (Ue): 120/240 V, Rated Current (Ie): 3.0/1.5 A					
Utilization C	Lategory	DC - 13	Rated Voltage (Ue): 24/125/250 V, Rated Current (Ie): 2.0/0.22/0.1 A					
Operating Temperature Storage Temperature Humidity (Non Condensing)			- 15° C to +60° C - 20° C to +70° C Max. 95%					
	Relay (R) Healthy Phase Reverse		Relay LED Continuous ON (Red Colour) Power LED Continuous ON (Green Colour)					
			Relay LED Flashing (Red Colour) Power LED Flashing (Green Colour)				(Green Colour)	
	A	symmetry	N. A. Relay LED Off (Red C		d Colour)	NA		
LED	OV		N. A. OV - Red Colour LED ON			O ON		
Indications	UV					UV - Red Colour LED ON		
	AS		N. A.				AS-Red Colour LED ON	
	All O		Phase Fail					
LEDs Flashing		N. A. 中 / Un Pot changed in running conditions				n running conditions		
Degree of Protection			IP 20 for Terminal, IP 30 for Enclosure					
Dimension (W x H x D) (in mm)			18 X 90 X 59 70 g					
Weight (unpacked) Mounting			Base / DIN rail					
Certification								
Certification			CE custe Rolls Compilant					
EMI/ EMC Radio Interference Suppression ESD Electrical Fast Transients Surges Voltage Dips, Interruptions Isolation			CISPR 14-1 Ed. 5.0 (2005-11) Class A IEC 61000-4-2 Ed. 1.2 (2001-04) Level II IEC 61000-4-4 Ed. 2.0 (2004-07) Level IV IEC 61000-4-5 Ed. 2.0 (2005-11) Level IV IEC 61000-4-11 Ed. 2.0 (2004-03) All 7 Levels (AC), IEC 61000-4-29 Ed. 1.0 (2000-08) All 5 Levels (DC) Test voltage between input & output - IEC 60255-5, 2kV					

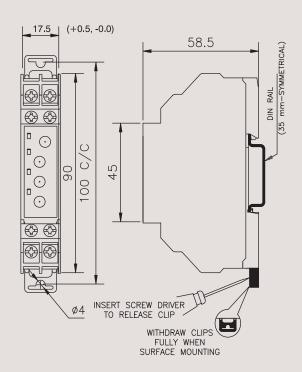
ORDERING INFORMATION

Cat. No.	Description
MC21D5	Phase Sequence, Asymmetry & Phase Loss Monitoring, 1 C/O
MK21D5	Phase Sequence, 1 C/O
MA21DN	Phase Sequence & Asymmetry Monitoring, 1 C/O
MD21DF	Phase Sequence, Under Voltage & Over Voltage Monitoring, 1 C/O
MG21DH	Phase Sequence, Asymmetry & Voltage Monitoring with Fixed OFF Delay (5 s), 1 C/O
MG21DF	Phase Sequence, Asymmetry & Voltage Monitoring with Fixed ON Delay (5 s), 1 C/O

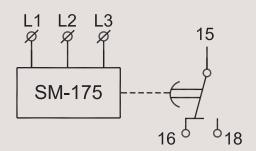


MOUNTING DIMENSION (mm)





CONNECTION DIAGRAM



TERMINAL TORQUE & CAPACITY

Ø3.55.0mm	1.1 Nm(10 lb.in) Terminal screw - M3.5						
	2 x 0.22.5 mm ² solid wire/single wire ferrule						
AWG	1 x 24 to 10						