Digital Monitoring Device PMR-01A

Features

- Monitors and trips the circuit after the set trip delay time when ever power Unhealthiness (phase failure, phase sequence, phase unbalance under voltage, over voltage, under frequency, over frequency or earth leakage current, under current, over current) occurs.
- User can set the in-rush time depending on his system during which over Current feature will be in disabled condition.
- · User can program earth leakage current limits.
- Displays all the 3 phase voltages (Line to Line and Line to neutral)
 3phase currents, average frequency in a scrolling fashion during healthy condition.
- CT primary can be programmed up to 2500 in steps of 5.
- CT secondary will be factory set for 5.
- PMR-01- Panel / Flush mounting.
- Unit will retain fault till accepted in manual mode.

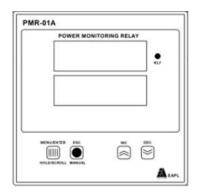


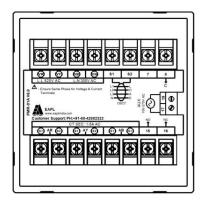
Ordering Information

Models	Function Source Voltage		Output	
PMR-01A	Power Monitoring Relay	415V AC 3 phase, 4 wire & Auxiliary supply100-270 V AC	1 c/o, 10A resistive	

Front View

Rear View





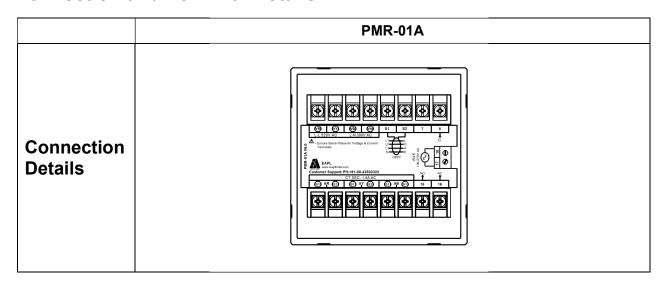
Over-all Dimension

	Dimension Details in mm			Cutout Dimension in mm	
Models	W	Н	D	W	Н
PMR-01A	96	96	95.5	92	92

■ Specifications

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Model	PVMR-01A		
Function	Phase Unbalance, Phase Reversal, Phase Failure, Under and Over Voltage, Under and Over Current, Under and Over Frequency, Earth Leakage Monitor and Control.		
Auxiliary supply	100 to 270V AC, 50Hz		
System Input			
Input Voltage	415V AC(3Ph-4W)		
Input Current	Current input (AR,AY,AB) lb=5A		
Input Frequency	50 Hz, ± 10%		
Control output	1 c/o rated for 10A @ 250VAC /28VDC resistive load(NO) 5A @ 250VAC /28VDC resistive load(NC)		
Power Consumption	AC approx. 5VA, DC approx. 1W		
Accuracy			
Voltage	± 4V of display value		
Current	\pm 5% of lb \pm 1 digit (lb = 5A)		
Frequency	\pm 2% of FS \pm 1 digit		
Trip Time	±1% of set delay ± 2 sec		
Earth leakage current	±500mA of setting accuracy		
General			
Nominal current	0.5A to 500A (External CT's shall be used above 5A, CT setting max 2500/5 in steps of 5)		
Trip time delay	1to 250secs settable for UB,OV,UV,OC,UC		
Earth leakage Trip time delay	5 sec Earth leakage		
Phase Failure trip time delay	< 5 sec		
Phase reverse trip time delay	Instantaneous		
Frequency trip time delay	Instantaneous		
Recovery Time	2 sec Min		
Power On Delay	10 sec Max		
Inrush current delay	1 to 60sec settable		
Mode of Operation	Auto/ Manual		
Core Balance Current Transformer type	Toroidal core		
CBCT Size Internal Diameter	100mm		
Climatic			
Ambient Temperature	Operation: -10° C to +55° C Storage: -25° C to +80° C		
Humidity			
Mechanical Endurance			
Service life (under no load)	10 operations minimum		
Rated frequency of operation	1800 ± 5% operation per hour max		
Electrical Endurance			
Electrical life (under full load)	10 operations minimum		
Electrical Safety			
Insulation resistance	>100M ohms @ 500V DC		
Dielectric	1) 2.5KV AC, 50Hz for 1 minute.(Between current carrying & non-current carrying parts) 2) 1.5KV AC, 50Hz for 1 minute.(Between contacts & control circuit) 3) 750V AC, 50Hz for 1 minute.(Between non-continuous relay contacts)		
Electrical connection	Screw type terminals with self lifting clamps.		
Dimension	96 X 96 X 95.5 mm (W X H X D)		
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Connection and Terminal Details



	PMR-01A
Terminal Details	1,2,3,4 - R,Y,B,N 5,6 - CBCT 8 - Com (Relay) 9,10 - S1,S2 (R phase) 11, 12 - S1, S2 (Y phase) 13, 14 - S1, S2 (B phase) 15, 16 - NO, NC (Relay) 17, 18 - 100 to 270V AC