

Monitoring Devices- Single Phase Preventers

PMD-01/PMD-01a/PMD-02/PMD-03/SPP-T

Features

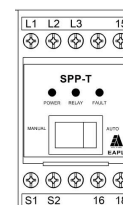
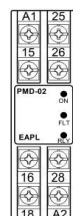
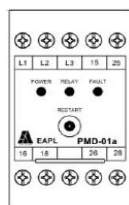
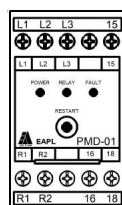
- Din sized enclosure.
- Auto / Manual mode (only for PMD-01 and SPP-T).
- Front button and external potential free (zero volt / no voltage) terminal contacts for resetting in manual mode.
- LED indication for power, relay status and fault condition
- Trip delay time and limits of all parameters are factory set.



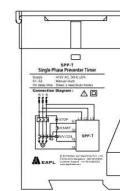
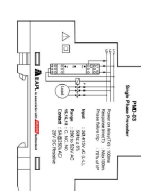
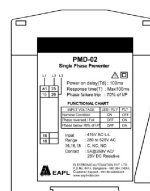
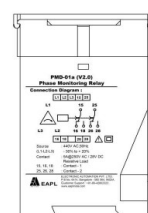
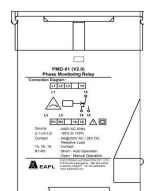
Ordering Information

Models	Function	Input Voltage	Output Voltage
PMD-01	Phase Failure, Phase Sequence, Phase Unbalance, Under voltage Monitor & Control	440V AC 3phase, 3 wire, Self powered	1c/o rated for 5A @ 250VAC /28VDC resistive load
PMD-01a			2 c/o rated for 5A @ 250V AC/28VDC resistive load
PMD-02	Phase Failure, Phase Sequence, Monitor and Control	415V AC 3phase, 3 wire, Self powered	1c/o rated for 5A @ 250VAC/28VDC resistive load
PMD-03	Phase Failure, Phase Sequence, Under Voltage Monitor and Control		
SPP-T	Phase Failure, Phase Sequence, Phase Unbalance, Monitor and Control		

Front View PMD-01 PMD-01a PMD-02 PMD-03 SPP-T



Rear View PMD-01 PMD-01a PMD-02 PMD-03 SPP-T



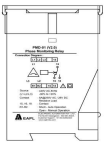

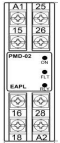
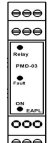
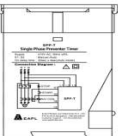
Over-all Dimension

Models	Dimension Details in mm		
	W	H	D
PMD-01/PMD-01a/SPP-T	45	75	116
PMD-03	17.8	90	65
PMD-02	22.5	75	103.8

■ Specifications

Parameters		Models	PMD-01	PMD-01a	PMD-02	PMD-03	SPP-T
Function			Phase Unbalance, Phase Failure, Negative Phase Sequence, Under voltage Monitor &Control		Phase Failure Trip : Phase missing, Phase Sequence < 70% of nominal Voltage	Phase Failure Trip : Phase missing, Phase Sequence< 70% of nominal Voltage	Phase Unbalance, Phase Failure, Negative Phase Sequence Monitor and Control.
System input	Input voltage	440V AC, 3 Phase			415V AC, 3 Phase		
	Operating voltage range	-30% to +20% of rated voltage			280 VAC to 528 VAC		-65% to +20% of rated voltage
	Input Frequency	50 Hz ± 5%					
	Control output	1c/o rated for 5A @ 250VAC /28VDC resistive load	2 c/o rated for 5A @ 250VAC/28VDC resistive load	1c/o rated for 5A @ 250VAC/28VDC resistive load	RLY - 1 C/ O rated for 5A @ 250 VAC / 28VDC resistive	1c/o rated for 5A @ 250VAC/28VDC resistive load	
	Power consumption	35VA / 7W			50VA / 10W		34VA / 7W
	Unbalance	2.5 Sec max			-		2.5 Sec max
	Under voltage	2 Sec max			-		
	Phase failure	2 Sec max.			-		2 Sec max.
General	Mode of Operation	Auto/Manual	Manual		-		Auto/Manual
	Recovery Time	100mSec Min.			-		100mSec Min
	On Delay time	-			-		30 Sec ± 4sec(Auto mode)
Voltage Unbalance response		10 ± 3%	10 ± 3% of rated power supply		-		10% ± 3%
Under voltage response		60% to 70% of rated supply @ ambient Temperature co-efficient:0.5V/0C			-		-
LED Indication		-			Power ON, Fault and Relay		-
Reset		-			Auto reset on clearing fault condition		-
Power On Delay		-			100 m Sec		-
Response time		-			100mSec max		-
Climatic	Ambient Temperature	Operation: -100C to +550C Storage : -250C to +80°C					
	Humidity	MAX 85% RH @ 400C					
Mechanical Endurance	Service life (under no load)	106 operations minimum					
	Rated frequency of operation	1800 ±5% operations per hour max					
	Electrical life (under full load)	105 operations minimum					
	Insulation resistance	>100M ohms @ 500V DC					
	Dielectric strength	01) 2.5KV AC, 50Hz for 1 minute. (Between current carrying & non-current carrying parts) 02) 1.5KV AC, 50Hz for 1 minute.(Between contacts & control circuit) 03) 750V AC , 50Hz for 1minute(Between non-continuous relay contacts)					
	Electrical connection	Screw type terminals with self lifting clamps					
	Dimension(WxHxD)	45x 75x 116mm			22.5 x 75 x 103.8mm	17.8 x 90 x 65.0mm	45x 75x 116mm

Connection and Terminal Details

	PMD-01	PMD-01a	PMD-02	PMD-03	SPP-T
Connection Details					
Terminal Details	PMD-01 L1,L2,L3 : R,Y,B (440V AC) 15,16,18 : C,NC,NO R1,R2 : Short-Auto Operation : Open-Manual Operation	PMD-01a L1, L2, L3: R, Y, B (440V AC) 15, 16, 18: C1, NC1, NO1 25, 26, 28: C2, NC2, NO2	PMD-02 A1, 25, 26: R, Y, B 3 phase supply (415V AC) 15, 16, 18: C, NC, NO	PMD-03 L1, L2, L3 : R,Y,B 3 phase supply (415V AC) 15,16,18 : C,NC,NO	SPP-T L1,L2,L3 : R,Y,B 3 Phase supply (415V AC) 15,16,18 : C,NC,NO S1, S2 : Start terminals