

In Collaboration with **KRÜGER** Krüger Holding AG



Salient Features

Voltage Monitoring Device

- Under Voltage Over Voltage Monitoring for 3 Phase(440V Nominal)
- LED indication for power ON, relay ON, Under Voltage and Over Voltage.
- DIN rail mounting
- Trip time delay
- Single changeover relay output.
- External control for Auto/ Manual Restart

Phase Monitoring Device

- Mode of operation - Auto / Manual
- LED indication for power ON, relay ON and fault status
- DIN rail mounting
- Trip time delay
- Single changeover relay output.

Technical Specifications

Model	PMD 01	VMD 01	VMD 03
Function	Phase Monitoring Device	Voltage Monitoring Device	
Rated Supply Voltage	440 AC 3 phase	240 V AC	440 AC 3 phase
Operating voltage range	-30% to +20% of the rated voltage		
Rated frequency	50 Hz \pm 5%		
Power consumption	AC approx. 34 VA/7W	AC approx. 6W	
Control output	1C/O rated for 16 A @250 V AC/28 V DC, resistive load * for PMD 01 5 A @ 250 V AC/28 V DC		
Trip time delay	-	2 sec to 20 sec adjustable \pm 2 sec	
Setting Range	-	70% to 95% of 440 V AC 105% to 120% of 440 V AC	
Trip Time Delay	* 2.5S+ 250 msecs for phase unbalance >6% * -20% \pm 2% 1.25 secs + 250 msecs for phase unbalance >20% * -30% \pm 2% 2.5secs + 250ms for phase unbalance>30% - 20% \pm 2%		-
Power On Delay	-	2 sec to 20 sec adjustable \pm 2 secs <u>Note:</u> Delay Pot common for Trip Time and Power On time Setting	
Recovery Time	100 m secs	-	
Mode of Operation	Auto/Manual		
Service life (under no load)	10 ⁶ operations minimum		
Electrical life	10 ⁵ operations minimum		
Rated frequency of operation	1800 \pm 5% operations per hour max.		
Humidity	Max 85% RH @ 40°C		
Dimension	45 X 75 X 116 mm (W X H X D)		

Ordering Information

Model	Function	Source Voltage	Output
PMD 01	Phase Monitoring Device	440 V AC 3 Φ	5 A Relay
VMD 01	Voltage Monitoring Device	240 V AC	16 A Relay
VMD 03		440 V AC 3 Φ	16 A Relay



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