Frequency Monitoring Series PD 225

- Wide Auxiliary Supply voltage Range:
 110 240 VAC, 220 440 VAC
- Models for Over Frequency and Under/Over Frequency Monitoring
- Monitors Frequency of Three signals Sine,
 Square & Triangular
- Model for Frequency Limit Control: 5 Hz to 135 Hz
- Wide Signal Input Voltage: 15 to 500 VAC

- Adjustable Relay status in Healthy or Unhealthy condition using DIP switch "ET" (Energize to Trip) or "DT" (De-energize to trip.)
- Ease of Frequency setting with simple Addition & Subtraction
- LED Indications for Healthy,
 Unhealthy & No signal conditions



Ordering Information

Cat. No.	Description
MI81BJ	110 - 240 VAC, Over Frequency Relay, 1 C/O
MI91BJ	220 - 440 VAC, Over Frequency Relay, 1 C/O
MI81BL	110 - 240 VAC, Over Frequency & Under Frequency Relay, 1 C/O
MI91BI	220 - 440 VAC Over Frequency & Under Frequency Relay 1 C/O

UL Approval for Cat Nos. MI81BL & MI91BL only.

Frequency Monitoring Series PD 225



Cat. No.			MI81BJ	MI91BL	
Param	eters				
Supply Voltage (中)			110 - 240 VAC	220 - 440 VAC	
Supply Variation			-15% to +15% (of中)		
Frequency			50/60 Hz		
Power Consumption (Max.)		(Max.)	3 VA		
Signal Type			Sinusoidal, Square, Triangular		
Signal Input Voltage Range		Range	(15 to 500) V		
Overall Frequency Range		ange	(5 to 135) Hz	(40 to 70) Hz	
Trip Settings	Over Fr	equency	0.33 to 1 of Full Scale	(+1 to +10) Hz above Selected Value	
	Under F	requency	NA	(-1 to -10) Hz below Selected Value	
	Reset Hysteresis		1.5 % of Full Scale selected		
Setting Accuracy			± 5%		
Repeat	t Accuracy		± 0.02%		
Time	ON Delay		500 ms	500 ms to 5 s	
Delay	OFF Delay		100 ms		
Delay	Reset Time		150 ms		
	Relay Outpu	t	1 C/O		
Output	Contact Rati	ng	6A (Resistive) @ 250 VAC / 28 VDC		
Output	Electrical Life		1 x 10 ⁵		
	Mechanical Life		3 x 10 ⁶		
Utilization Category AC - 15 DC - 13			Rated Voltage (Ue): 120/240 V, Rated Current (Ie): 3.0/1.5 A		
		DC - 13	Rated Voltage (Ue): 24/125/250 V, Rated Current (Ie): 2.0/0.22/0.1 A		
LED			Red LED Flashing if No Signal	NA	
Indicati	01 / 01		N A	Separate for UF & OF	
Operating Temperature			- 15° C to +60° C		
Storage Temperature)	- 25° C to +80° C		
Enclosure			Flame Retardant UL94-V0		
Dimension (W x H x D) (in mm)		D) (in mm)	22.5 X 83 X 100.5		
Weight (unpacked)			120 g		
Mounting			Base / DIN rail		
Certification			C Compliant		
Degree of Protection			IP 20 for Terminals, IP 40 for Enclosure		

EMI / EMC

Harmonic Current Emissions IEC 61000-3-2 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

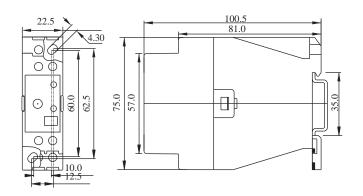
 Vibration
 IEC 60068-2-6

 Repetitive Shock
 IEC 60068-2-27

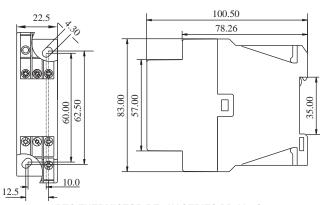
 Non-Repetitive Shock
 IEC 60068-2-27

Frequency Monitoring & PTC Thermistor Relay Series PD225

MOUNTING DIMENSION (mm)

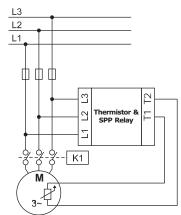


FREQUENCY MONITORING SERIES PD 225



PTC THERMISTOR RELAY SERIES PD 225 &
PTC THERMISTOR & SINGLE PHASING PREVENTER SERIES PD 225

CONNECTION DIAGRAM



PTC THERMISTOR & SINGLE PHASING PREVENTER SERIES PD 225

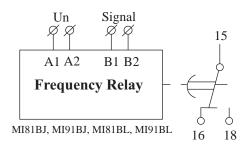
CONTACT ARRANGEMENT:

For 1 NO + 1 NO PRODUCT: ML64BS, MLD4BS

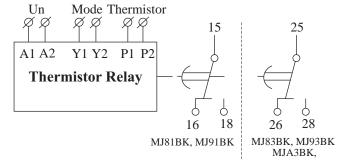


For 1 NO + 1 NC PRODUCT: ML67BS, MLD7BS





FREQUENCY MONITORING SERIES PD 225



PTC THERMISTOR RELAY SERIES PD 225

TERMINAL TORQUE & CAPACITY

Ø 3.54.0 mm	Torque - 0.6 N.m (6 Lb.in) Terminal screw - M3	
	Solid Wire - 1 X 16 mm ²	
AWG	1 X 20 to 12	

FREQUENCY MONITORING SERIES PD 225
PTC THERMISTOR RELAY SERIES PD 225
PTC THERMISTOR & SINGLE PHASING PREVENTER SERIES PD 225