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



Cat. No.		N	AI81BJ	MI91BL	
Paramete	rs				
Supply Voltage (中)			110 - 240 VAC		220 - 440 VAC
Supply Variation			-15% to +15% (of 中)		
Frequency			50/60 Hz		
Power Consumption (Max.)		3 VA			
Signal Type		Sinusoidal, Square, Triangular			
Signal Input Voltage Range		(15 to 500) V			
Overall Frequency Range		(5 to 135) Hz		(40 to 70) Hz	
Trin	Over Frequency		0.33 to 1 of Full Scale		(+1 to +10) Hz above Selected Value
Trip Settings	Under Freq		NA		(-1 to -10) Hz below Selected Value
Reset Hysteresis		1.5 % of Full Scale selected			
Setting Accuracy		± 5%			
Repeat Accuracy		± 0.02%			
Time	ON Delay		500 ms		500 ms to 5 s
Delay C	OFF Delay		100 ms		
	Reset Time		150 ms		
Output Co	Relay Output		1 C/O		
	Contact Rating		6A (Resistive) @ 250 VAC / 28 VDC		
	Electrical Life		1×10^{5}		
M	Mechanical Life		3 x 10 ⁶		
Utilization Category AC - 15 DC - 13 LED Relay Indications UE / OF		Rated Voltage (Ue): 120/240 V, Rated Current (Ie): 3.0/1.5 A			
		Rated Voltage (Ue): 24/125/250 V, Rated Current (Ie): 2.0/0.22/0.1 A			
				NA	
01 / 01		N A		Separate for UF & OF	
Operating Temperature Storage Temperature		- 15° C to +60° C - 25° C to +80° C			
Enclosure		Flame Retardant UL94-V0			
Dimension (W x H x D) (in mm)		22.5 X 75 X 100.5			
Weight (unpacked)		120 g			
Mounting		Base / DIN rail			
Certification					
		IP 20 for Terminals, IP 40 for Enclosure			
_	Protection		iP 20 for Terminals,	IP 40 for Enclosure	
EMI / EM			IEC (1000 2 2	Ed 2.0 (2005 11) Class A	
Harmonic Current Emissions ESD		IEC 61000-3-2 IEC 61000-4-2	Ed. 3.0 (2003-11) Class A Ed. 1.2 (2001-04) Level II	Ed. 3.0 (2005-11) Class A Ed. 1.2 (2001-04) Level II	
Radiated Susceptibilty		IEC 61000-4-3	Ed. 3.0 (2006-02) Level III		
Electrical Fast Transients		IEC 61000-4-4	Ed. 2.0 (2004-07) Level IV		
Surges		IEC 61000-4-5			
Conducted Susceptibilty Voltage Dips & Interruptions (AC)		IEC 61000-4-6 Ed. 2.2 (2006-05) Level III IEC 61000-4-11 Ed. 2.0 (2004-03) All 7 Levels			
Conducted Emission		IEC 61000-4-11 CISPR 14-1	CISPR 14-1 Ed. 2.0 (2004-03) All 7 Levels Ed. 5.0 (2005-11) Class A		
Radiated Emission		CISPR 14-1 Ed. 5.0 (2005-11) Class B			
Environm					
Cold Heat		IEC 60068-2-1	Ed. 6.0 (2007-03)		
D TT	•		IEC 60068-2-2	Ed. 5.0 (2007-07)	
Dry Heat			IEC (00(0 2 (E4 7.0 (2007 12) 5-	
Dry Heat Vibration Repetitive	Shock		IEC 60068-2-6 IEC 60068-2-27	Ed. 7.0 (2007-12) 5g Ed. 4.0 (2008-02) 40g, 6ms	

ORDERING INFORMATION

Cat. No.DescriptionMI81BJ110 - 240 VAC, Over Frequency Relay, 1 C/OMI91BJ220 - 440 VAC, Over Frequency Relay, 1 C/O

MI81BL 110 - 240 VAC, Over Frequency & Under Frequency Relay, 1 C/O MI91BL 220 - 440 VAC, Over Frequency & Under Frequency Relay, 1 C/O