



PTC Thermistor & Single Phasing Preventer Series PD225



Cat. No.		ML64BS	MLD7BS
Parameters			
Supply Voltage (φ)		230 VAC (3 Phase 3 Wire)	400 VAC (3 Phase 3 Wire)
Supply Variation		-15% to + 15% (of φ)	-15% to + 15% (of φ)
Frequency		50/60 Hz	50/60 Hz
Power Consumption (Max.)		15 VA	24 VA
Trip Settings	Trip Level	2.7 kΩ, (± 5%)	
	Reset Level	1.71 kΩ, (± 5%)	
	Sensor Short	<20Ω, (±4Ω)	
	Hysteresis	40Ω, (± 4Ω)	
	Sensor Open	> 20 kΩ, (± 5%)	
Max Cold Res(Ω) of Sensor Chain		< 1.5 kΩ	
Cable Resistance		20Ω	
Phase Asymmetry		70 VAC (± 10 VAC)	104 VAC (± 10 VAC)
Asymmetrical Phase Loss		110 VAC (± 10 VAC)	220 VAC (± 10 VAC)
Symmetrical Phase Loss		130 VAC (± 10 VAC)	240 VAC (± 10 VAC)
Restart Voltage		145 VAC (± 10 VAC)	265 VAC (± 10 VAC)
Reset Mode		Auto	
Repeat Accuracy		1%	
Time Delay	Operate Time	< 350 ms	
	Release Time	360 - 550ms for Asymmetrical or Symmetrical Phase Fault & 100ms (max.) for Phase Sequence, Thermistor Trip	
	Reset Time	100 - 750 ms	
Output	Relay Output	1 NO (SPP) + 1 NO (PTC Thermistor)	1 NO (SPP) + 1 NC (PTC Thermistor)
	Contact Rating	5A 'NO' & 3A 'NC' @ 240 VAC / 28 VDC (Resistive)	
	Electrical Life	1 x 10 ⁵	
	Mechanical Life	3 x 10 ⁷	
Utilization Category	AC - 15	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 Indications	(Green)	Continuous ON	Power Supply Healthy
		Continuous OFF	Power Fail
		Flashing	Sensor Open
	(Amber)	Continuous ON	Over Temperature Trip
		Continuous OFF	Thermistor Relay ON
		Flashing	Sensor Short or Cable Short
(Red)	Continuous ON	SPP Relay Trip (For Supply Above Restart Voltage)	
	Continuous OFF	SPP Relay ON (After ensuring the input Voltage of 5V above the Restart Voltage)	
Flashing	Supply & SPP Fault below restart voltage		
Operating Temperature		- 10° C to +60° C	
Storage Temperature		- 15° C to +70° C	
Humidity (Non Condensing)		95% (Rh)	
Enclosure		Flame Retardant UL94-V0	
Dimension (W x H x D) (in mm)		22.5 X 83 X 100.5	
Weight (unpacked)		150 g	
Mounting		Base / DIN rail	
Certification		 	
Degree of Protection		IP 20 for Terminals, IP 40 for Enclosure	

EMI / EMC

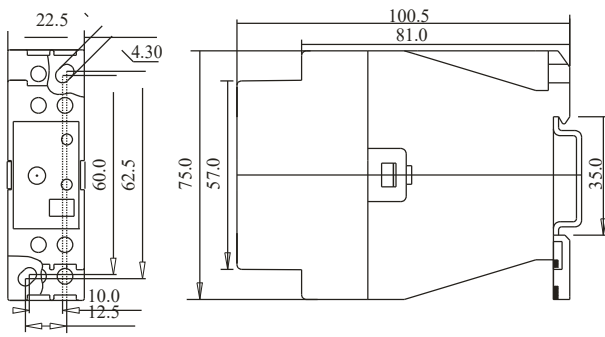
Harmonic Current Emissions	IEC 61000-3-2
ESD	IEC 61000-4-2
Radiated Susceptibility	IEC 61000-4-3
Electrical Fast Transients	IEC 61000-4-4
Surges	IEC 61000-4-5
Conducted Susceptibility	IEC 61000-4-6
Voltage Dips & Interruptions (AC)	IEC 61000-4-1
Conducted Emission	CISPR 14-1
Radiated Emission	CISPR 14-1

Environmental

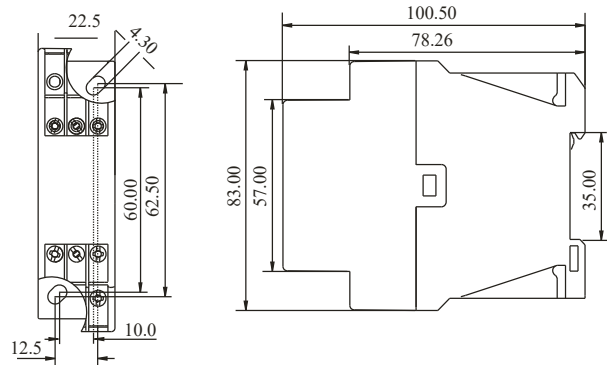
Cold Heat	IEC 60068-2-1
Dry Heat	IEC 60068-2-2
Vibration	IEC 60068-2-6
Repetitive Shock	IEC 60068-2-27
Non-Repetitive Shock	IEC 60068-2-27

Frequency Monitoring & PTC Thermistor Relay Series PD225

MOUNTING DIMENSION (mm)

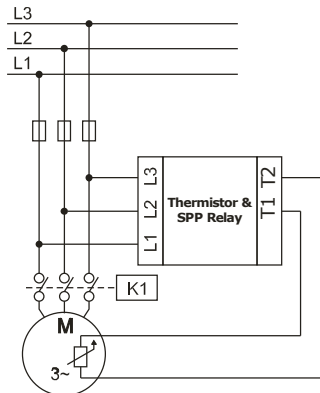


FREQUENCY MONITORING SERIES PD 225



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

CONNECTION DIAGRAM



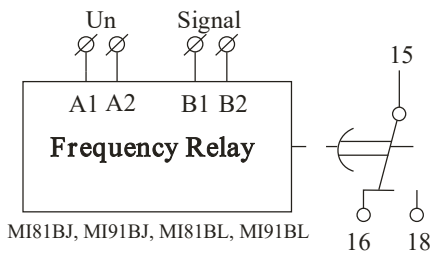
PTC THERMISTOR & SINGLE PHASING PREVENTER SERIES PD 225

CONTACT ARRANGEMENT

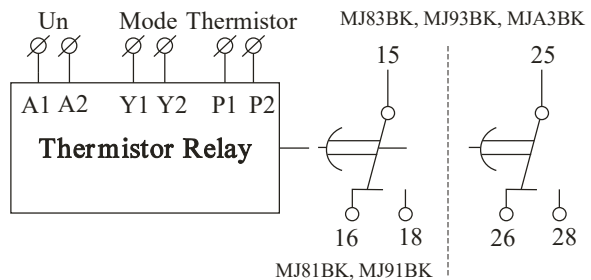
For 1 NO + 1 NO PRODUCT:
ML64BS, MLD4BS



For 1 NO + 1 NC PRODUCT:
ML67BS, MLD7BS

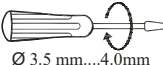



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PTC THERMISTOR RELAY SERIES PD 225

TERMINAL TORQUE & CAPACITY

 Ø 3.5 mm...4.0mm	0.60 N.m (6 Lb.in)
	1 x 4.0 mm ² Solid/Stranded Wire
AWG	1 x 20 to 10

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