FREQUENCY MONITORING RELAY FOR SINGLE AND THREE-PHASE SYSTEMS, MINIMUM AND MAXIMUM FREQUENCY, 380...415VAC 50/60HZ



Product designation			Frequency monitoring relays
Product type designation			PMF20
General characteristics			Minimum and
Description			maximum frequency control
Type of system			Single-phase
Power supply			
Auxiliary supply voltage Us			Self powered
Operating voltage range			0.851.1 Ue
Rated frequency		Hz	50 or 60 Hz selectable
Power consumption Max		VA	17
Power dissipation Max		W	1.5
Control circut			
Rated voltage to control (Ue)			
	min	VAC	380
	Max	VAC	415
Frequency set-point (% rated frequency)			
	min	%	9099
	Max	%	101110
Tripping delay		S	0.120
Resetting time		S	0.120
Resetting hysteresis		%	0.5
Type of reset		0/	Automatic
Repeat accuracy		%	<±0.1
Voltage inputs		1.1-	4070
Frequency range		Hz	4070
Relay outputs Number of relays		Nr.	1
Relay state		TNI.	Normally energised De- energises at tripping
Contact arrangement			1 changeover SPDT
Rated operational voltage AC (IEC)		VAC	250
Maximum switching voltage		VAC	400
IEC Conventional free air thermal current Ith		Α	8
UL/CSA and IEC/EN 60947-5-1 designation			B300
Electrical life (with rated load)		cycles	100000
Mechanical life		cycles	30000000
Functions			
Modular version			2U
Minimum AC voltage			Yes
The above deviation described in this desument are subject to undeten any sufficiency to suffice the subject to		- 4	d





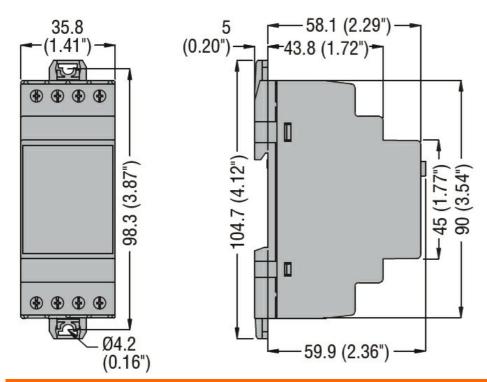
ENERGY AND AUTOMATION

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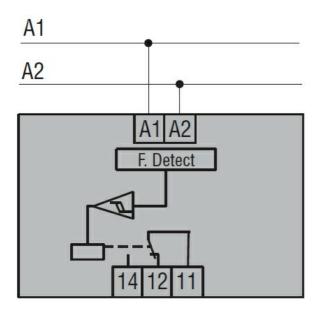
Maximum AC voltage Minimum frequency No Maximum frequency No Indications 1 green LED for power on and tripping and 2 red LEDs for min/max tripping Connections Terminals type Tightening torque for terminals
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Connections Terminals type Screw
Terminals type Screw
rightering torque for terminals
max Nm 0.8
max Ibin 7
Conductor cross section
AWG/Kcmil
min AWG/RCHIII
Max AWG 12
IEC
min mm² 0.2
Max mm² 4
Insulations
Rated insulation voltage Ui V 575
Rated impulse withstand voltage Uimp kV 6
Operating frequency withstand voltage kV 4
Ambient conditions
Temperature
Operating temperature
min °C -20
max °C +60
Storage temperature
min °C -30
max °C +80
Housing
Execution (n° of modules) 2
Material Self-extinguishing polyamide
Mounting 35mm DIN rail (IEC/EN 60715)
IEC degree of protection IP40 on front; IP20 at terminals
Dimensions (W x H x D) mm 35.8 x 104.7 x 64.9
Weight g 125
Dimensions

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Wiring diagrams



Certifications and compliance		
Compliance		
	CSA C22.2 n° 14	
	IEC/EN 60255-5	
	IEC/EN 61000-6-2	
	IEC/EN 61000-6-3	
	UL 508	
Certificates		
	cULus	
	EAC	
ETIM alegation		



PMF20A415

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ETIM 8.0

EC001442 -Frequency monitoring relay