

## PMF20A415 FREQUENCY MONITORING RELAY FOR SINGLE AND THREE-PHASE SYSTEMS, MINIMUM AND MAXIMUM FREQUENCY, 380...415VAC 50/60HZ

			Frequency
Product designation			monitoring relays
Product type designation			PMF20
General characteristics			
			Minimum and
Description			maximum
Turne of evidence			frequency control
Type of system Power supply			Single phase
Auxiliary supply voltage Us			Self powered
Operating voltage range			0.851.1 Ue
· · · · ·			50 or 60 Hz
Rated frequency		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			Automatic
Repeat accuracy		%	<±0.1
Voltage inputs			
Frequency range		Hz	4070
Relay outputs			
Number of relays		Nr.	1
			Normally
Relay state			energised De-
			energises at tripping
			1 changeover
Contact arrangement			SPDT
Rated operational voltage AC (IEC)		VAC	250
Maximum switching voltage		VAC	400
IEC Conventional free air thermal current Ith		A	8
UL/CSA and IEC/EN 60947-5-1 designation			B300
Electrical life (with rated load)		cycles	100000
Mechanical life		cycles	3000000
Indications		,	
			1 green LED for
			power on and
Indication			tripping and 2 red
			LEDs for
			min/max tripping
Connections			0
Terminals type			Screw
Tightening torque for terminals			
		N I	0.0
	max max	Nm Ibin	0.8 7

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Conductor cross sect	ion			
	AWG/Kcmil			
		min	AWG	24
		Max	AWG	12
	IEC			
		min	mm²	0.2
		Max	mm²	4
Insulations				
Rated insulation voltage	ne Ui		V	575
Rated impulse withsta			kV	6
Operating frequency v			kV	4
Ambient conditions	Winstand Voltage		IX V	-
Temperature				
remperature	Operating temperature			
	Operating temperature		° <b>^</b>	20
		min	°C	-20
	<u></u>	max	°C	+60
	Storage temperature	<u>.</u>		
		min	°C	-30
		max	°C	+80
Housing				
Execution (n° of modu	ules)			2
Material				Self-extinguishing polyamide
Mounting				35mm DIN rail (IEC/EN 60715)
IEC degree of protect	tion			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			_	
Wiring diagrams				
	an Panana			
Certifications and com	npliance			
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 classification				
				EC001442 -
ETIM 8.0				Frequency
				monitoring relay