



FREQUENCY MONITORING RELAY FOR SINGLE AND THREE-PHASE SYSTEMS, MINIMUM AND MAXIMUM FREQUENCY, 220...240VAC 50/60HZ

			Frequency
Product designation			monitoring relays
Product type designation			PMF20
General characteristics			
Description			Minimum and
Description			maximum frequency control
Type of system			Single phase
Power supply			Cirigio pridoc
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	10
Power dissipation Max		W	1.5
Control circut			
Rated voltage to control (Ue)			
	min	VAC	220
	Max	VAC	240
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 Repeat accuracy		%	Automatic <±0.1
Voltage inputs		/0	\ 10.1
Frequency range		Hz	4070
Relay outputs			
Number of relays		Nr.	1
			Normally
Relay state			energised De-
riolay diale			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		1	B300
Electrical life (with rated load) Mechanical life		cycles	100000
Indications		cycles	30000000
mucations			1 green LED for
			power on and
Indication			tripping and 2 red
			LEDs for
			min/max tripping
Connections			Consum
Terminals type			Screw
Tightening torque for terminals			
	may	Nm	Λ 8
	max max	Nm Ibin	0.8 7



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Conductor cross sec	ction			_
	AWG/Kcmil			
		min	AWG	24
		Max	AWG	12
	IEC			
		min	mm²	0.2
		Max	mm²	4
Insulations				
Rated insulation volta	age Ui		V	575
Rated impulse withst			kV	6
Operating frequency			kV	4
Ambient conditions				
Temperature				
	Operating temperature			
	operating temperature	min	°C	-20
		max	°C	+60
	Storage temperature	max		100
	Storage temperature	min	°C	-30
		max	°C	+80
Housing		max	J	100
Execution (n° of mod	dules)			2
Execution (ii or mod	uules)			Self-extinguishing
Material				polyamide
Mounting				35mm DIN rail (IEC/EN 60715)
IEC degree of prote	ction			IP40 on front; IP20 at terminals
Dimensions (W x H x	x D)		mm	35.8 x 104.7 x 64.9
Weight			g	125
Dimensions			<u> </u>	
Wiring diagrams				
Certifications and co	impliance			
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