

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 |

PMF20A415



| 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 | | ° ^ | 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 |
| | | | | |