PMV80NA600

OVALO VOLTAGE MONITORING REALY FOR THREE-PHASE SYSTEM, WITH OR WITHOUT NEUTRAL, electric MINIMUM AND MAXIMUM AC VOLTAGE, MINIMUM AND MAXIMUM FREQUENCY. PHASE LOSS, NEUTRAL LOSS AND INCORRECT PHASE SEQUENCE, 480...600VAC 50/60HZ ENERGY AND AUTOMATION



| Product designation | | | Voltage monitoring relays |
|---|------------|--------|--|
| Product type designation | | | PMV80N |
| General characteristics | | | |
| Description | | | Minimum and maximum AC voltage, minimum and maximum frequency, phase loss, neutral loss and incorrect phase sequence relay |
| Type of system | | | Three-phase with/without neutral |
| Power supply | | | |
| Auxiliary supply voltage Us | | | Self powered |
| Operating voltage range | | | 0.71.2 Ue |
| Rated frequency | | Hz | 50/60 ±5% |
| Power consumption Max | | VA | 27 |
| Power dissipation Max | | W | 1.9 |
| Control circut | | | |
| Rated voltage to control (Ue) | | | 100 |
| | min | VAC | 480 |
| | Max | VAC | 600 |
| Voltage set-point (%Ue) | | 0/ | 00.05 |
| | min | % | 8095 |
| | Max | % | 105115 |
| Frequency set-point (% rated frequency) | | 0/ | 4 |
| | min May | % | 1 10 |
| Tripping delay | Max | % s | 0.120s (0.1 5s freq.) |
| Resetting time | | S | 0.5 |
| Resetting hysteresis | | % | 3 (0.5 freq) |
| Instantaneous tripping for Ue | | 70 | Voltage <70% Ue |
| Type of reset | | | Automatic |
| Repeat accuracy | | % | <=0.1 |
| Tripping time for phase loss | | ms | 60 |
| Relay outputs | | 1113 | |
| Number of relays | | Nr. | 2 |
| | | 111. | Normally |
| Relay state | | | energised De- energises at tripping |

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ENERGY AND AUTOMATION

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| | | 0 |
|---|---------------------------------------|---|
| Contact arrangement | | 2 changeover SPDT |
| Rated operational voltage AC (IEC) | VAC | 250 |
| Maximum switching voltage | VAC | 400 |
| IEC Conventional free air thermal current Ith | А | 8 |
| UL/CSA and IEC/EN 60947-5-1 designation | | B300 |
| Electrical life (with rated load) | cycles | 100000 |
| Mechanical life | cycles | 3000000 |
| Functions | | |
| Modular version | | 3U |
| Minimum AC voltage | | Yes |
| Maximum AC voltage | | Yes |
| Natural loss | | Yes |
| Phase loss | | Yes |
| Incorrect phase sequence | | Yes |
| Asymmetry | | No |
| Minimum frequency | | Yes |
| Maximum frequency | | Yes |
| Programmable via NFC technology and APP | | No |
| Indications | | |
| Indication | | 1 green LED for power on and tripping and 3 red |
| Ormorations | | LEDs for tripping |
| Connections | | 2 |
| Terminals type | | Screw |
| Tightening torque for terminals | | |
| | max Nm | 0.8 |
| | max Ibin | 7 |
| Conductor cross section AWG/Kcmil | | |
| | min AWG | 24 |
| | Max AWG | 12 |
| IEC | | |
| 120 | min mm² | 0.2 |
| | Max mm ² | 4 |
| Insulations | | - |
| Rated insulation voltage Ui | V | 600 |
| Rated impulse withstand voltage Uimp | | 6 |
| Operating frequency withstand voltage | kV | 4 |
| Ambient conditions | κv | 7 |
| Temperature | | |
| • | | |
| Operating temperature | min °C | 20 |
| | min °C max °C | -20 |
| 01 | max °C | +60 |
| Storage temperature | · · · · · · · · · · · · · · · · · · · | 20 |
| | min °C | -30 |
| | max °C | +80 |
| Housing | | 3 |
| Execution (n° of modules) | | |
| Material | | Self-extinguishing polyamide |
| Mounting | | 35mm DIN rail (IEC/EN 60715) |

PMV80NA600

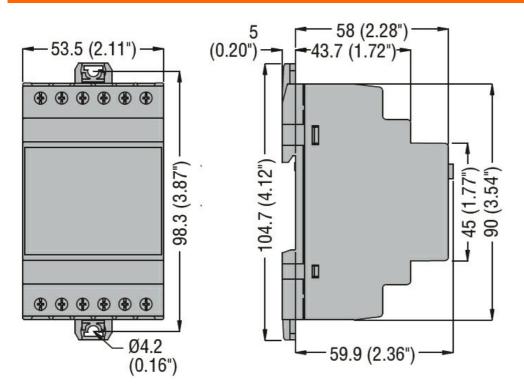
The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

PMV80NA600

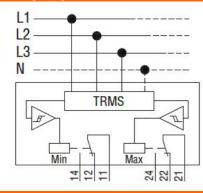
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| IEC degree of protection | | IP40 on front; IP20 at terminals |
|--------------------------|----|-------------------------------------|
| Dimensions (W x H x D) | mm | 35.8 x 104.7 x 64.9 |
| Weight | g | 200 |
| | | |

Dimensions



Wiring diagrams



Certifications and compliance

| Compliance | |
|--------------|------------------|
| | IEC/EN 60255-5 |
| | IEC/EN 61000-6-2 |
| | IEC/EN 61000-6-3 |
| Certificates | |
| | EAC |

ETIM classification

ETIM 8.0

EC001438 -Voltage monitoring relay