# PMV50A600

VOLTAGE MONITORING REALY FOR THREE-PHASE SYSTEM, WITHOUT NEUTRAL, MINIMUM AND MAXIMUM AC VOLTAGE. PHASE LOSS AND INCORRECT PHASE SEQUENCE, 600VAC 50/60HZ



| | | | |
|---|---|---|---|
| Product designation | | | Voltage monitoring relays |
| Product type designation | | | PMV50 |
| **General characteristics** | | | |
| Description | | | Minimum and maximum AC voltage, phase loss and incorrect phase sequence relay |
| Type of system | | | Three-phase without neutral |
| **Power supply** | | | |
| Auxiliary supply voltage Us | | | Self powered |
| Operating voltage range | | | 0.7...1.2 Ue |
| Rated frequency | | Hz | 50/60 ±5% |
| Power consumption Max | | VA | 19 |
| Power dissipation Max | | W | 2.5 |
| **Control circut** | | | |
| Rated voltage to control (Ue) | min | VAC | 600 |
| Voltage set-point (%Ue) | | | |
| | min | % | 80…95 |
| | Max | % | 105…115 |
| Tripping delay | | s | 0.1…20 |
| Resetting time | | s | 0.1…20 (0.5 at power up) |
| Resetting hysteresis | | % | 3 |
| Instantaneous tripping for Ue | | | Voltage <70% Ue |
| Type of reset | | | Automatic |
| Repeat accuracy | | % | <±0.1 |
| Tripping time for phase loss | | ms | 60 |
| **Relay outputs** | | | |
| Number of relays | | Nr. | 1 |
| Relay state | | | 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 | | A | 8 |
| UL/CSA and IEC/EN 60947-5-1 designation | | | B300 |
| Electrical life (with rated load) | | cycles | 100000 |
| Mechanical life | | cycles | 30000000 |

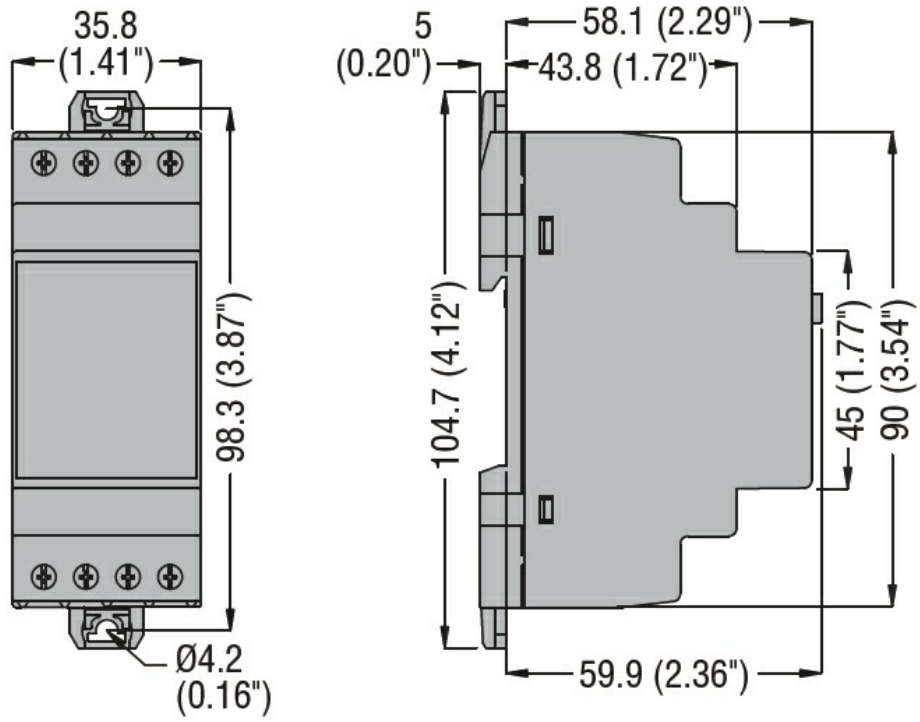

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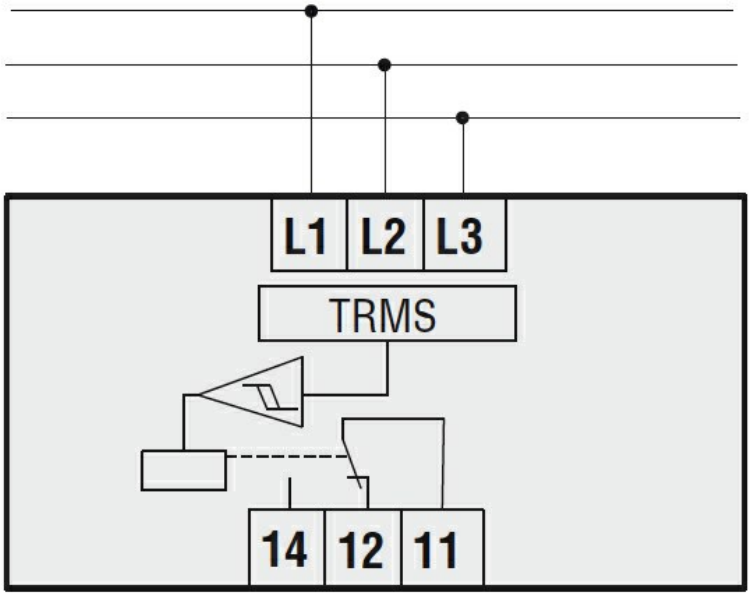
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| | | | |
|---|---|---|---|
| **Functions** | | | |
| Modular version | | | 2U |
| Minimum AC voltage | | | Yes |
| Maximum AC voltage | | | Yes |
| Phase loss | | | Yes |
| Incorrect phase sequence | | | Yes |
| Asymmetry | | | No |
| **Indications** | | | |
| Indication | | | 1 green LED for power on and tripping and 2 red LEDs for tripping |
| **Connections** | | | |
| Terminals type | | | Screw |
| Tightening torque for terminals | | | |
| | max | Nm | 0.8 |
| | max | lbin | 7 |
| Conductor cross section | | | |
| AWG/Kcmil | | | |
| | min | AWG | 24 |
| | Max | AWG | 12 |
| IEC | | | |
| | min | mm² | 0.2 |
| | Max | mm² | 4 |
| **Insulations** | | | |
| Rated insulation voltage Ui | | V | 600 |
| 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 | 130 |
| **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 |


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## ETIM classification

| | |
|---|---|
| ETIM 8.0 | EC001438 - Voltage monitoring relay |


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