

VOLTAGE MONITORING REALY FOR THREE-PHASE SYSTEM, WITHOUT NEUTRAL, MINIMUM AND MAXIMUM AC VOLTAGE. PHASE LOSS AND INCORRECT PHASE SEQUENCE, 380...575VAC 50/60HZ

ENERGY AND AUTOMATION



| 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 | | | 0.71.2 Ue |
| Rated frequency | | Hz | 50/60 ±5% |
| Power consumption Max | | VA | 30 |
| Power dissipation Max | | W | 2.5 |
| Control circut | | | |
| Rated voltage to control (Ue) | | | |
| | min | VAC | 380 |
| | Max | VAC | 575 |
| Voltage set-point (%Ue) | min | % | 8095 |
| | min Max | % % | 105115 |
| Tripping delay | IVIAA | S | 0.120 |
| | | <u> </u> | 0.120 (0.5 at |
| Resetting time | | S | 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 | | Α | 8 |
| UL/CSA and IEC/EN 60947-5-1 designation | | | B300 |
| Electrical life (with rated load) | | cycles | 100000 |



VOLTAGE MONITORING REALY FOR THREE-PHASE SYSTEM, WITHOUT NEUTRAL, MINIMUM AND MAXIMUM AC VOLTAGE. PHASE LOSS AND INCORRECT PHASE SEQUENCE,

ENERGY AND AUTOMATION

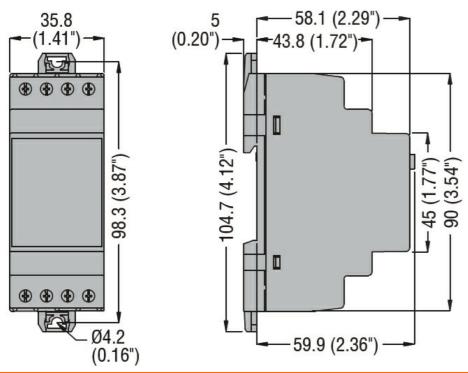
380...575VAC 50/60HZ

| Mechanical life | | cycles | 30000000 |
|--|-------------------|----------------------|--|
| Functions | | Cycles | 30000000 |
| Modular version | | | 2U |
| Minimum AC voltage | | | Yes |
| Maximum AC voltage | | | Yes |
| Phase loss | | | Yes |
| Incorrect phase sequence | | | Yes |
| Asymmetry | | | No |
| Indications | | | |
| | | | 1 green LED for |
| Indication | | | power on and |
| | | | tripping and 2 red |
| Connections | | | LEDs for tripping |
| Terminals type | | | Screw |
| Tightening torque for terminals | | | Sciew |
| rightening torque for terminals | max | Nm | 0.8 |
| | max | Ibin | 7 |
| Conductor cross section | max | | · |
| AWG/Kcmil | | | |
| | min | AWG | 24 |
| | Max | AWG | 12 |
| IEC | | | |
| | min | mm² | 0.2 |
| | Max | mm² | 4 |
| | | | |
| Insulations | | | |
| Rated insulation voltage Ui | | V | 600 |
| Rated insulation voltage Ui Rated impulse withstand voltage Uimp | | kV | 6 |
| Rated insulation voltage Ui Rated impulse withstand voltage Uimp Operating frequency withstand voltage | | | |
| Rated insulation voltage Ui Rated impulse withstand voltage Uimp Operating frequency withstand voltage Ambient conditions | | kV | 6 |
| Rated insulation voltage Ui Rated impulse withstand voltage Uimp Operating frequency withstand voltage Ambient conditions Temperature | | kV | 6 |
| Rated insulation voltage Ui Rated impulse withstand voltage Uimp Operating frequency withstand voltage Ambient conditions | | kV kV | 6 4 |
| Rated insulation voltage Ui Rated impulse withstand voltage Uimp Operating frequency withstand voltage Ambient conditions Temperature | min | kV kV °C | -20 |
| Rated insulation voltage Ui Rated impulse withstand voltage Uimp Operating frequency withstand voltage Ambient conditions Temperature Operating temperature | | kV kV | 6 4 |
| Rated insulation voltage Ui Rated impulse withstand voltage Uimp Operating frequency withstand voltage Ambient conditions Temperature | min max | kV kV °C °C | -20 +60 |
| Rated insulation voltage Ui Rated impulse withstand voltage Uimp Operating frequency withstand voltage Ambient conditions Temperature Operating temperature | min max min | kV kV °C °C | -20 +60 |
| Rated insulation voltage Ui Rated impulse withstand voltage Uimp Operating frequency withstand voltage Ambient conditions Temperature Operating temperature Storage temperature | min max | kV kV °C °C | -20 +60 |
| Rated insulation voltage Ui Rated impulse withstand voltage Uimp Operating frequency withstand voltage Ambient conditions Temperature Operating temperature | min max min | kV kV °C °C | -20 +60 |
| Rated insulation voltage Ui Rated impulse withstand voltage Uimp Operating frequency withstand voltage Ambient conditions Temperature Operating temperature Storage temperature Housing Execution (n° of modules) | min max min | kV kV °C °C | -20 +60 -30 +80 |
| Rated insulation voltage Ui Rated impulse withstand voltage Uimp Operating frequency withstand voltage Ambient conditions Temperature Operating temperature Storage temperature Housing | min max min | kV kV °C °C | -20 +60 -30 +80 2 Self-extinguishing polyamide |
| Rated insulation voltage Ui Rated impulse withstand voltage Uimp Operating frequency withstand voltage Ambient conditions Temperature Operating temperature Storage temperature Housing Execution (n° of modules) | min max min | kV kV °C °C | -20 +60 -30 +80 2 Self-extinguishing |
| Rated insulation voltage Ui Rated impulse withstand voltage Uimp Operating frequency withstand voltage Ambient conditions Temperature Operating temperature Storage temperature Housing Execution (n° of modules) Material | min max min | kV kV °C °C | -20 +60 -30 +80 2 Self-extinguishing polyamide 35mm DIN rail |
| Rated insulation voltage Ui Rated impulse withstand voltage Uimp Operating frequency withstand voltage Ambient conditions Temperature Operating temperature Storage temperature Housing Execution (n° of modules) Material Mounting | min max min | kV kV °C °C | -20 +60 -30 +80 2 Self-extinguishing polyamide 35mm DIN rail (IEC/EN 60715) IP40 on front; |
| Rated insulation voltage Ui Rated impulse withstand voltage Uimp Operating frequency withstand voltage Ambient conditions Temperature Operating temperature Storage temperature Housing Execution (n° of modules) Material Mounting IEC degree of protection Dimensions (W x H x D) Weight | min max min | °C °C °C °C | -20 +60 -30 +80 2 Self-extinguishing polyamide 35mm DIN rail (IEC/EN 60715) IP40 on front; IP20 at terminals 35.8 x 104.7 x |
| Rated insulation voltage Ui Rated impulse withstand voltage Uimp Operating frequency withstand voltage Ambient conditions Temperature Operating temperature Storage temperature Housing Execution (n° of modules) Material Mounting IEC degree of protection Dimensions (W x H x D) | min max min | °C °C °C °C | -20 +60 -30 +80 2 Self-extinguishing polyamide 35mm DIN rail (IEC/EN 60715) IP40 on front; IP20 at terminals 35.8 x 104.7 x 64.9 |

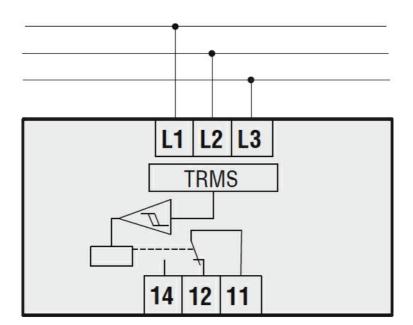


VOLTAGE MONITORING REALY FOR THREE-PHASE SYSTEM, WITHOUT NEUTRAL, MINIMUM AND MAXIMUM AC VOLTAGE. PHASE LOSS AND INCORRECT PHASE SEQUENCE, 380...575VAC 50/60HZ

ENERGY AND AUTOMATION



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 | |
| | FAC | |

PMV50A575



VOLTAGE MONITORING REALY FOR THREE-PHASE SYSTEM, WITHOUT NEUTRAL, MINIMUM AND MAXIMUM AC VOLTAGE. PHASE LOSS AND INCORRECT PHASE SEQUENCE, 380...575VAC 50/60HZ

ENERGY AND AUTOMATION

ETIM classification

ETIM 8.0

EC001438 -Voltage monitoring relay