



General characteristics

| | |
|----------------|--|
| Description | Asymmetry, phase loss and incorrect phase sequence relay |
| Type of system | Three-phase without neutral |

Power supply

| | |
|--------------------------------|--------------------|
| Auxiliary supply voltage U_s | Self powered |
| Operating voltage range | 0.7...1.2 U_e |
| Rated frequency | Hz 50/60 $\pm 5\%$ |
| Power consumption Max | VA 11 |
| Power dissipation Max | W 2.5 |

Control circuit

| | | | |
|------------------------------------|-----|-----|----------------------------|
| Rated voltage to control (U_e) | min | VAC | 208 |
| | Max | VAC | 240 |
| Asymmetry set-point ($\%U_e$) | % | | 5...15 |
| Tripping delay | s | | 0.1...20 |
| Resetting time | s | | 0.1...20 (0.5 at power up) |
| Resetting hysteresis | % | | 3 |
| Instantaneous tripping for U_e | | | Voltage $< 70\% U_e$ |
| Type of reset | | | Automatic |
| Repeat accuracy | % | | ± 0.1 |
| Tripping time for phase loss | ms | | 60 |

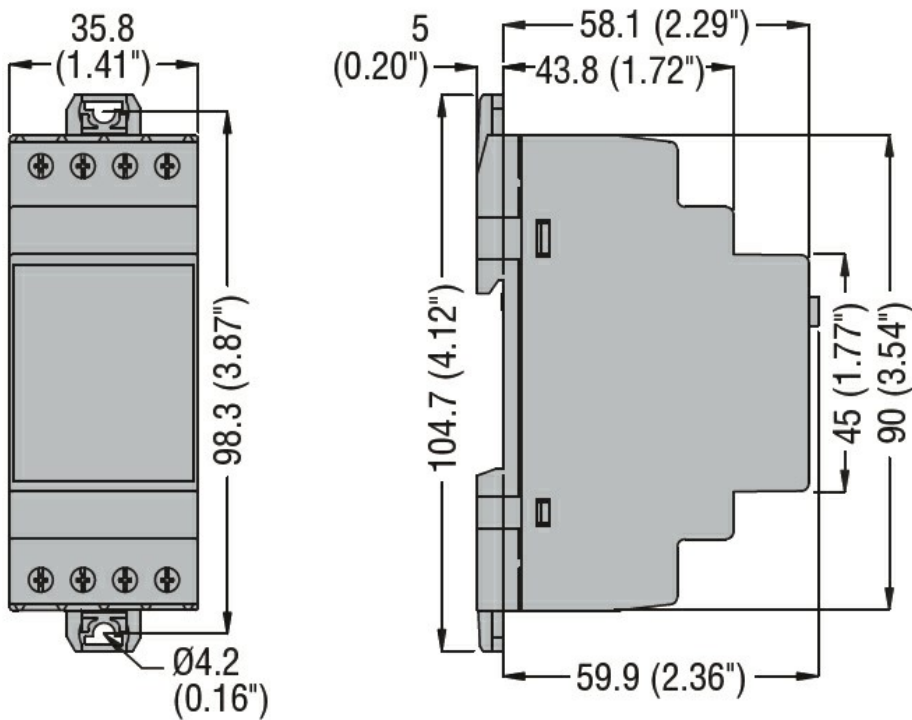
Relay outputs

| | | |
|--|--------|--|
| 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 $I_{th} \leq 40^\circ C$ | A | 8 |
| UL/CSA and IEC/EN 60947-5-1 designation | | B300 |
| Electrical life (with rated load) | cycles | 100000 |
| Mechanical life | cycles | 30000000 |

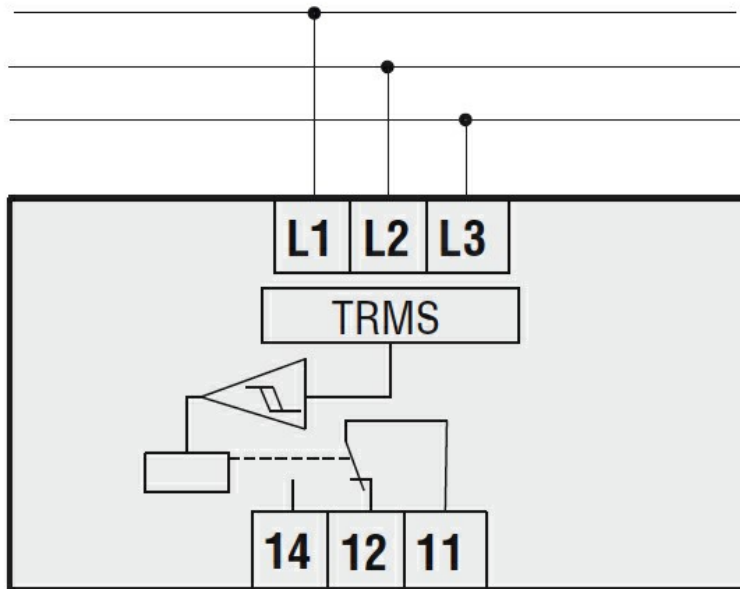
Functions

| | |
|--------------------------|-----|
| Modular version | 2U |
| Minimum AC voltage | No |
| Maximum AC voltage | No |
| Phase loss | Yes |
| Incorrect phase sequence | Yes |

| | | | | |
|---------------------------------------|-----------------------|-----|-----------------|--|
| Asymmetry | | | | Yes |
| Indications | | | | |
| Indication | | | | 1 green LED for power on and tripping and 1 red LED for tripping |
| Connections | | | | |
| 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 | min | mm ² | 0.2 |
| | | Max | mm ² | 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 | | | | |



Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 14

IEC/EN 60255-5

IEC/EN 60335-2-89

IEC/EN 61000-6-2

IEC/EN 61000-6-3

UL 508

Certificates

CSA C22.2 n. 60335-2-40:22 LZGH A2L

VOLTAGE MONITORING RELAY FOR THREE-PHASE SYSTEM, WITHOUT NEUTRAL, ASYMMETRY. PHASE LOSS AND INCORRECT PHASE SEQUENCE, 208...240VAC 50/60HZ

CSA C22.2 No. 60335-2-89:21 LZGH A2L

cULus

EAC

UL 60335-2-40 LZGH A2L

UL 60335-2-89 LZGH A2L

ETIM classification

ETIM 8.0

EC001438 -
Voltage
monitoring relay