12.01.2015

MR-EU3M1P monitoring relays



Output circuit - contact data

- Multifunctions monitoring relays (AC voltage monitoring in 3-phase network - 3(N)~ 400/230 V)
- Monitoring of phase sequence and phase failure Asymmetry monitoring (adjustable) Connection of neutral wire (optional)
- Supply voltage = monitoring voltage Output: 1 CO (1 changeover contact)
- Cover installation module, width 17,5 mm
- Direct mounting on 35 mm rail mount acc. to PN-EN 60715
- Recognitions, certifications, directives: (€



MR-EU3M1P

monitoring relays

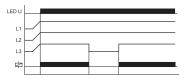
Functions

SEQ - Phase sequence monitoring.



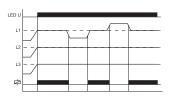
When all the phases are connected in the correct sequence and the measured asymmetry is less than the fixed value, the output relay R switches into on-position (yellow LED illuminated). When the phase sequence changes, the output relay R switches into off-position (yellow LED not illuminated).

SEQ - Phase failure monitoring.



The output relay R switches into off-position (yellow LED not illuminated), when one of the three phases fails.

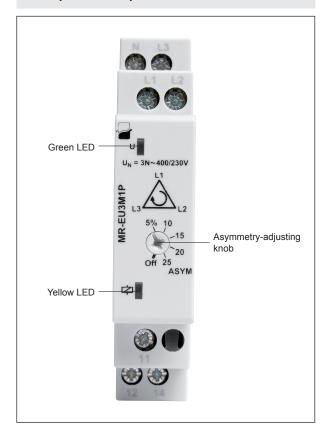
ASYM - Asymmetry monitoring.



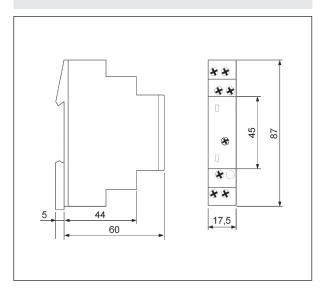
The output relay R switches into off-position (yellow LED not illuminated) when the asymmetrie exceeds the value set at the ASYM-regulator. An asymmetry caused by the reverse voltage of a consumer (e.g. a motor which continues to run on two phases only) does not effect the disconnection.

 \boldsymbol{U} - supply voltage; \boldsymbol{R} - output state of the relay

Front panel description



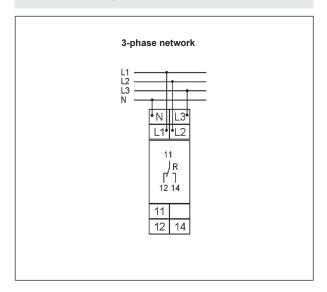
Dimensions



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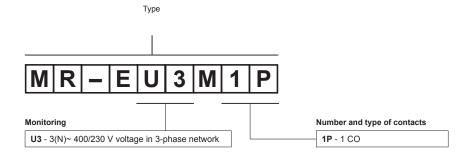
Connection diagram



Mounting

Relays **MR-EU3M1P** are designed for direct mounting on 35 mm rail mount acc. to PN-EN 60715. Operational position - any. **Terminals - cross section of the connection cables:** $1 \times 0.5 \dots 2.5 \text{ mm}^2$ with/without multicore cable end, $1 \times 4 \text{ mm}^2$ without multicore cable end, $2 \times 0.5 \dots 1.5 \text{ mm}^2$ with/without multicore cable end, $2 \times 2.5 \text{ mm}^2$ flexible without multicore cable end.

Ordering codes



Example of ordering code:

MR-EU3M1P

monitoring relay MR-EU3M1P, multifunction (relay perform 2 functions), cover - installation module, width 17,5 mm, one changeover contact, rated monitoring voltages: $AC - 3(N) \sim 400/230 \text{ V}$

PRECAUTIONS:

1. Ensure that the parameters of the product described in its specification provide a safety margin for the appropriate operation of the device or system and never use the product in circumstances which exceed the parameters of the product. 2. Never touch any live parts of the device. 3. Ensure that the product has been connected correctly. An incorrect connection may cause malfunction, excessive heating or risk of fire. 4. In case of any risk of any serious material loss or death or injuries of humans or animals, the devices or systems shall be designed so to equip them with double safety system to guarantee their reliable operation.

