Measuring relay MMP - Phase measuring relay / phase sequence with 1 c/o 17.5mm housing



Approvals

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Mounting

Snap-on mounting using a standard DIN rail EN 50022. The unit is designed to allow side-by-side mounting, with an ambient temperature of < 60°C.

Application

Correct rotation of three-phase motors.

Description

The MMP phase measuring relay / phase sequence measures the phases of a three-phase system (400V AC) for phase sequence and phase failure. The relay is powered by the connection to phase L1(L1 - N > 170V AC). In addition, the star point (neutral) of the phases to be monitored must be connected. The green LED indicates the connection of the power supply.

Function

The measuring relay switches into its work position as soon as all three phases exceed 170V AC (phases - N) and the phase sequence turns clockwise. This status is indicated by the red LED. The relay switches into its rest position if at least one of the phases falls below the minimum value of 170V AC (phases - N) or a counter clockwise rotation occurs. To measure a possible counter clockwise rotation, simply switch the connections of two of the three phases.

Options

Other voltages available upon request.

Part number

012016 MMP Phase measuring relay

Phase sequence / 1 Changeover



Measuring relay

MMP - Phase measuring relay / phase sequence with 1 c/o

17.5mm housing

Technical data

Supply

3 x 400V AC / N Supply voltage: Frequency range: 50 ... 60Hz Power consumption: AV8 Operating mode: continuous

Operation indicators

Supply voltage: LED, green Relay in work position: LED, red

Contact

Number of changeovers: 1 Contact material: AgSnO₂ Maximum switching voltage: 250V AC Maximum switching current: Drop-off time of switching element: approx. 20ms

Mechanical life: 30 Mio. 0.8 Mio.

Electrical life (with rated load):

General data

Ambient temperature: - 25 ... + 60°C Climate resistance: VDE 0435T.2021 Mounting position: any

Vibration resistance: VDE 0435T.2021

Test voltage: 2.5kV

Isolation group: VDE 0110 Group C

250

Protection class: Terminals IP 20 Housing IP 40 Crosshead screws; Connection terminals:

M3.5 self opening Connection cross section: Multi-strand wire with wire sleeves 2 x

2.5mm²

Weight:

single wire 2 x 2.5mm² Finger touch protection: VDE 0106T.100 and

VBG4

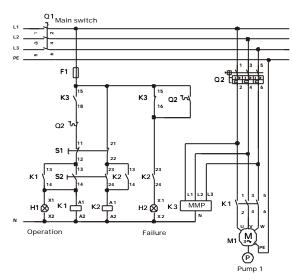
Mounting: Symmetrical DIN rail

EN 50022

90mm x 17.5mm x Dimensions I x w x h:

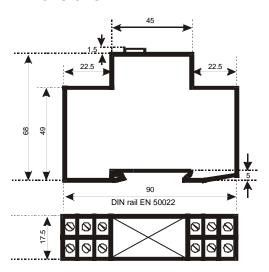
69.5mm 86g

Example



The MMP monitors the rotation of a pump motor.

Dimensions



Connections

The terminal assignment for the connections is on the front panel of the relay. Reading the front panel from top to bottom, the connections are in the following order:

Upper side Right: L2 - N - ncLeft: L1 - L3 - ncLower side

nc - 15 - 18 Right: Left: nc - nc - 16

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