Phase-Asymmetry Relay Type PS2DK

Monitoring of Phase-Asymmetry and Phase Sequence

Phase-Asymmetry Relay PS2DK



Phase asymmetry relays PS2DK are used for the protection of electric motors against asymmetries in the 3-phase mains without neutral and for monitoring the phase-sequence.

The switching-point is adjustable and can be adapted to the situation in the mains.

If a motor, running with 2 phases, creates the 3rd phase, the sensitivity can be increased.

With mains with high harmonics it can be necessary to reduce the sensitivity...

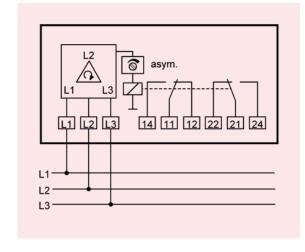
When the sensitivity is reduced to minimum (25% = potentiometer turned fully right), the device works as a phase-sequence relay. It trips only at wrong phasesequence or missing phase.

If there is a wrong phase-sequence when switching on the device, the relay does not pick up.

- Monitoring of phase-asymmetry
- Monitoring of phase-sequence
- Adjustable sensitivity 5...25 %
- Output-relay with 2 change-over contacts
- Switching delay adjustable 0,1 ... 5 s
- LED for display state of operation

Order-number

P222505



Technical Data

Rated supply Voltage Us

Admissible tolerance Power consumption Frequency

Relay output Type of contact

Test conditions rated ambient temperature range

Switching point asymmetry Hysteresis Delay at phase-loss (< 240 V) Switch-back delay at voltage recovery Switching-delay at asymmetry Switching point at symmetric decrease of voltage

Dimensions (H x W x D) Attachment

Protection housing / terminals Weight

3-phase 380-415 V, without neutral

+10%...-15% app. 3 VA 50/60 Hz

2 change-over contacts

type 2 see "General technical informations"

see "General technical informations" -20°C...+55°C

adjustable 5...25% app. 2% app. 0,2 s

app. 0,5 s

adjustable 0,1...5 s not defined

Housing K: 75 x 22,5 x 115 mm on 35 mm DIN-rail or with screws M4 (option)

IP 30/20 150 g