

Phase asymmetry Relay Type PS2DK

Monitoring of Phase-Asymmetry and Phase Sequence

Phasenasymmetrirelais PS2DK



Part number: **P222505**

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.

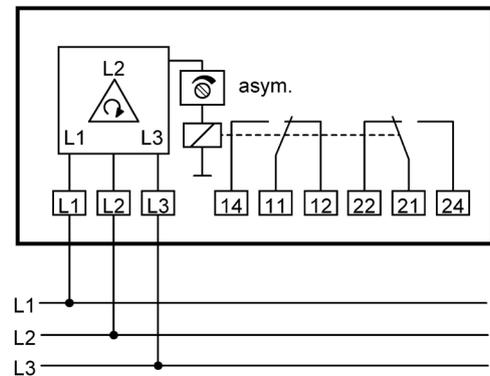
If a motor, running with 2 phases, creates the 3rd phase, the sensitivity can be increased.

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 phase-sequence 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



Technical Data

Rated supply Voltage Us	3-phase 380-415 V, without neutral
Admissible tolerance	+10%...-15%
Power consumption	app. 3 VA
Frequency	50/60 Hz
Relay output	2 change-over contacts
Type of contact	type 2 see "General technical informations"
Test conditions	see "General technical informations"
rated ambient temperature range	-20°C...+55°C
Switching point asymmetry	adjustable 5...25%
Hysteresis	app. 2%
Delay at phase-loss (< 240 V)	app. 0,2 s
Switch-back delay at voltage recovery	app. 0,5 s
Switching-delay at asymmetry	adjustable 0,1...5 s
Switching point at symmetric decrease of voltage	not defined
Dimensions (H x W x D)	Housing K: 75 x 22,5 x 115 mm
Attachment	on 35 mm DIN-rail or with screws M4 (option)
Protection housing / terminals	IP 30/20
Weight	150 g