



MEASUREMENT & CONTROL

RELAY MONITORING 3-PHASE SEQUENCE AND FAILURE

SPR-400, SPR-400N

- Monitores 3-phase mains, failures and sequence of phases
- Easy and fast installation
- LED indication of failure
- SPR-400N: Supply L1-N, it means that Relay also monitors breach of neutral point
- SPR-400: Supplied from all 3 phases
- Fixed delay T1 (500ms) and T2 (0.5-10s)
- Output contact: 1x changeover 16 A / 250 V AC1
- 1-MODULE, DIN rail mounting



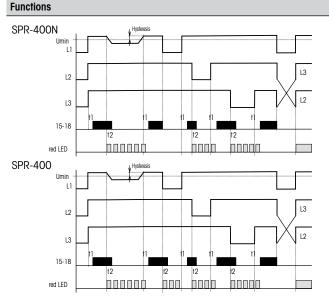
| Technical parameters | SPR-400N | SPR-400 |
|----------------------------|---|------------|
| Supply and measuring | SPR-400N | SPR-400 |
| Monitoring terminals: | L1, L2, L3, N | L1, L2, L3 |
| Supply terminals: | L1, N | L1, L2, L3 |
| Voltage: | 3x400/230 V | 3x400 V |
| Consumption: | max. 2 VA | |
| Level Umin: | cca 180 V | |
| Hysteresis: | 5% | |
| Time delay T1: | max. 500 ms | |
| Time delay T2: | adjustable 0.5-10 sec | |
| Output | | |
| Number of contacts: | 1x changeover, (AgNi) | |
| Rated current: | 16 A / AC1 | |
| Breaking capacity: | 4000 VA / AC1, 384 W / DC | |
| Inrush current: | 30 A / < 3 s | |
| Switching voltage: | 250 V AC1 / 24 V DC | |
| Min. breaking capacity DC: | 500 mW | |
| Output indication: | red / green LED | |
| Mechanical life: | 3x10 ⁷ | |
| Electrical life (AC1): | 0.7x10 ⁵ | |
| Other information | | |
| Operating temperature: | -20 +55°C | |
| Storage temperature: | -30 +70°C | |
| Electrical strength: | 4 kV (supply - output) | |
| Operating position: | | |
| Mounting: | DIN rail EN 60715 | |
| Protection degree: | IP 40 | |
| Overvoltage cathegory: | ///. | |
| Pollution degree: | 2 | |
| Max. cable size: | max. 2.5 mm2 / with crimped terminals 1.5 mm ² | |
| Dimensions: | 90x17.6x 64 mm, see Dimensions page | |
| Weight: | 70 g | 73 g |
| Standards: | EN 60255-6, | EN 61010-1 |

Functions

Relay in 3-phase main monitors correct sequence and failure of any phase. Green LED shines permanently and indicates the supply voltage. Red LED flashes when there is a phase failure and relay switches off.

Switchover into a failure state is delayed - the delay is set by a potentiometer on the panel of device. If the phase sequences are not correct red LED shines permanently and the relay is switched off. SPR-400N: Thanks to the supply from one phase (against N) the relay is capable of monitoring and break of neutral wire - it leads to supply failure and relay switches off.

SPR-400: With supply from all three phases the relay is capable of operating even if one phase fails.



Connection, Description

