

- ▶ Star-Delta start-up
- ▶ Supply voltage selectable via power modules
- ▶ 2 change-over contacts
- ▶ Width 22.5mm
- ▶ Industrial design



Technical data

1. Functions

S Star-Delta start-up

2. Time ranges

Start-up time

| Time range | Adjustment range | |
|------------|------------------|------|
| 10s | 500ms | 10s |
| 30s | 1500ms | 30s |
| 1min | 3s | 1min |
| 3min | 9s | 3min |

Transit time

| Time range (fixed) |
|--------------------|
| 40ms |
| 60ms |
| 80ms |
| 100ms |

3. Indicators

| | |
|--------------------|---|
| Green LED ON: | indication of supply voltage delta-contactor in on-position (terminals 25-28) |
| Green LED flashes: | indication of star-time |
| Yellow LED ON/OFF: | indication of star-contactor (terminals 15-18) |

4. Mechanical design

Self-extinguishing plastic housing, IP rating IP40
 Mounted on DIN-Rail TS 35 according to EN 50022
 Mounting position: any
 Shockproof terminal connection according to VBG 4 (PZ1 required), IP rating IP20
 Tightening torque: max. 1Nm
 Terminal capacity:
 1 x 0.5 to 2.5mm² with/without multicore cable end
 1 x 4mm² without multicore cable end
 2 x 0.5 to 1.5mm² with/without multicore cable end
 2 x 2.5mm² flexible without multicore cable end

5. Input circuit

| | | |
|-------------------------|--------------------------------------|---|
| Supply voltage: | 12 to 400V AC | terminals A1-A2 (galvanically separated) selectable via power modules TR2 |
| Tolerance: | | according to specification of power module |
| Rated frequency: | | according to specification of power module |
| Rated consumption: | 2VA (1.5W) | |
| Duration of operation: | 100% | |
| Reset time: | 100ms | |
| Residual ripple for DC: | - | |
| Drop-out voltage: | >30% of the supply voltage | |
| Overvoltage category: | III (in accordance with IEC 60664-1) | |
| Rated surge voltage: | 4kV | |

6. Output circuit

2 potential free change-over contacts
 Rated voltage: 250V AC
 Switching capacity: 750VA (3A / 250V AC)
 If the distance between the devices is less than 5mm!

Switching capacity: 1250VA (5A / 250V AC)
 If the distance between the devices is greater than 5mm!

Fusing: 5A fast acting
 Mechanical life: 20 x 10⁶ operations
 Electrical Life: 2 x 10⁵ operations at 1000VA resistive load
 max. 60/min at 100VA resistive load (in accordance with IEC 60947-5-1)
 III (in accordance with IEC 60664-1)
 4kV
 Overvoltage category:
 Rated surge voltage:

7. Accuracy

Base accuracy: ±1% (of maximum scale value)
 Frequency response: -
 Adjustment accuracy: ≤5% (of maximum scale value)
 Repetition accuracy: <0.5% or ±5ms
 Voltage influence: -
 Temperature influence: ≤0.01% / °C

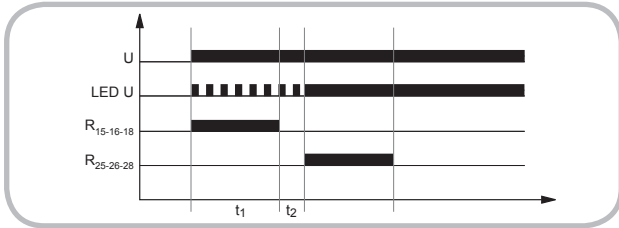
8. Ambient conditions

Ambient temperature: -25 to +55°C (in accordance with IEC 60068-1)
 -25 to +40°C (in accordance with UL 508)
 Storage temperature: -25 to +70°C
 Transport temperature: -25 to +70°C
 Relative humidity: 15% to 85% (in accordance with IEC 60721-3-3 class 3K3)
 Pollution degree: 3 (in accordance with IEC 60664-1)
 Vibration resistance: 10 to 55Hz 0.35mm (in accordance with IEC 60068-2-6)
 15g 11ms (in accordance with IEC 60068-2-27)
 Shock resistance:

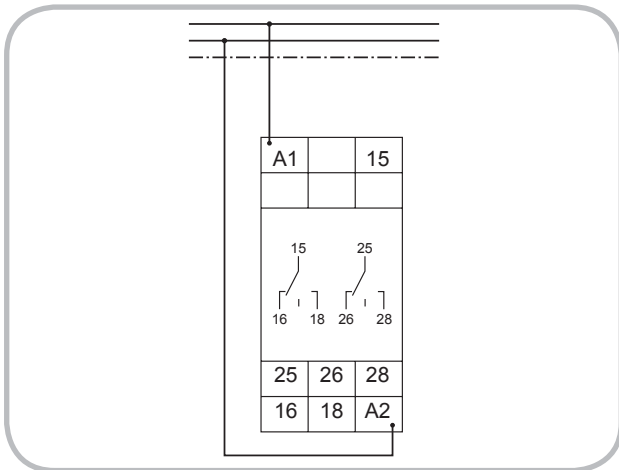
► Functions

Star-Delta start-up (S)

When the supply voltage U is applied, the star-contact switches into on-position (yellow LED illuminated) and the set star-time t_1 begins (green LED flashing). After the interval t_1 has expired (green LED illuminated) the star-contact switches into off-position (yellow LED not illuminated) and the set transit-time t_2 begins. After the interval t_2 has expired the delta-contact switches into on-position. To restart the function the supply voltage must be interrupted and re-applied.



► Connections



► Dimensions

