- Installation design
- Width 35mm
- Star-Delta start-up
- 2 normally open contacts



Technical data

1. Functions

Star-Delta start-up

2. Time ranges

Start-up time

Adjustment range Time range 10s 50Óms 10s 30s 1500ms 30s 1min 1min 3min 95 3min

Transit time

Time ranges (fixed)

40ms 60ms 80ms 100ms

3. Indicators

indication of supply voltage Green LED ON:

delta-contactor in on-position

(terminals 17-28)

Yellow LED ON/OFF: indication of star-contactor

(terminals 17-18)

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 max. 1Nm Initial torque:

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:

24V DC terminals A1(+)-A3 24V AC terminals A1-A3 110 to 240V AC terminals A1-A2

Tolerance:

24V DC ±10% 24V AC -15% to +10% 110 to 240V AC -15% to +10% Rated frequency: 48 to 63Hz

Rated consumption:

24V AC/DC 1.5VA (1W) 2VA (1W) 8VA (1.3W) 110V AC 230V AC Duration of operation: 100% 100ms Reset time: Residual ripple for DC:

Drop-out voltage: >30% of the supply voltage

6. Output circuit

2 potential free normally open contacts Switching capacity (distance < 5mm): 1250VA (5A / 250V AC) Switching capacity (distance > 5mm): 2000VA (8A / 250V AC)

Fusing: Mechanical life: 8A fast acting 20 x 10⁶ operations Electrical life: 2 x 10⁵ operations at 1000VA resistive load

Switching frequency:

max. 60/min at 100VA resistive load max. 6/min at 100VA resistive load (according to IEC 947-5-1) 250V AC (according to IEC 664-1)

Insulation voltage: Surge voltage: 4kV, overvoltage category III (according to IEC 664-1)

7. Accuracy

Base accuracy: ±1% (of maximum scale value) ≤5% (of maximum scale value) Adjustment accuracy: Repetition accuracy: <0.5% or ±5ms

Voltage influence: Temperature influence: ≤0.01% / °C

8. Ambient conditions

-25 to +55°C (according to IEC 68-1) -25 to +70°C -25 to +70°C Ambient temperature:

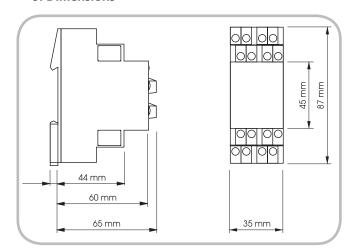
Storage temperature: Transport temperature: Relative humidity: 15% to 85%

(according to IEC 721-3-3 class 3K3)

Pollution degree: 2, if built-in 3

(according to IEC 664-1)

9. Dimensions

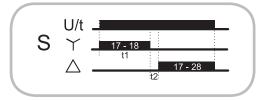


Functions

Star-Delta start-up (S)

When the supply voltage U is applied (green LED illuminated), the contact for the star-contactor switches into on-position (yellow LED illuminated) and the set star-time t1 begins. After the interval t1 has expired the contact switches into off-position (yellow LED not illuminated) and the set transit-time t2 begins. After the interval t2 has expired the contact for the deltacontactor switches into on-position.

To restart the function the supply voltage must be interrupted and re-applied.



Connections

