

DATA SHEET: TIMERS ZR5SD025



SCHRACK-INFO

- Star-Delta start up
- 2 change-over contacts
- Wide input voltage range
- Width 35 mm
- Installation design

TECHNICAL DATA

1. Functions

S Star-delta start up

2. Time ranges

Start-up time

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

Transit time (fixed)

40 ms
60 ms
80 ms
100 ms

3. Indicators

Green LED U/t ON: indication of supply voltage delta-contactor in on-position (terminals 25-28)
Green LED U/t flashes: indication of time period star time
Yellow LED R 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. 1 Nm
Terminal capacity:
1 x 0.5 to 2.5 mm² with/without multicore cable end
1 x 4 mm² without multicore cable end
2 x 0.5 to 1.5 mm² with/without multicore cable end
2 x 2.5 mm² flexible without multicore cable end

5. Input circuit

Supply voltage: terminals A1(+)-A2
Type ZR5SD025 12 to 240 V AC/DC
Tolerance: 12 V-10% to 240 V+10%
Rated consumption: 4 VA (1.5 W)
Rated frequency: AC 48 to 63Hz
Duty cycle: 100%

Reset time: 100 ms
Residual ripple of DC: 10%
Drop-out voltage: >30% of the supply voltage
Overvoltage category: III (according to IEC 60664-1)
Rated surge voltage: 4 kV

6. Output circuit

2 potential free change over contacts
Rated surge: 250 V AC
Switching capacity: 2000 VA (8 A / 250 V)
Fusing: 8 A fast acting
Mechanical life: 20 x 10⁶ operations
Electrical life: 2 x 10⁵ operations at 1000 VA resistive load
Switching frequency: max. 60/min at 100 VA resistive load
max. 6/min at 1000 VA resistive load (according to IEC 947-5-1)
Overvoltage category: III. (according to IEC 60664-1)
Rated surge voltage: 4 kV

7. Accuracy

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

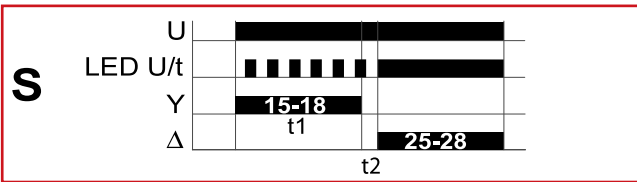
8. Ambient conditions

Ambient temperature: -25 to +55 °C (according to IEC 68-1)
Storage temperature: -25 to +70 °C
Transport temperature: -25 to +70 °C
Relative humidity: 15% to 85% (according to IEC 721-3-3 Klasse 3K3)
Pollution degree: 2, if built in 3 (according to IEC 664-1)
Vibration resistance: 10 to 55 Hz 0.35 mm (according to IEC 68-2-6)
Shock resistance: 15 g 11 ms (according to IEC 68-2-27)

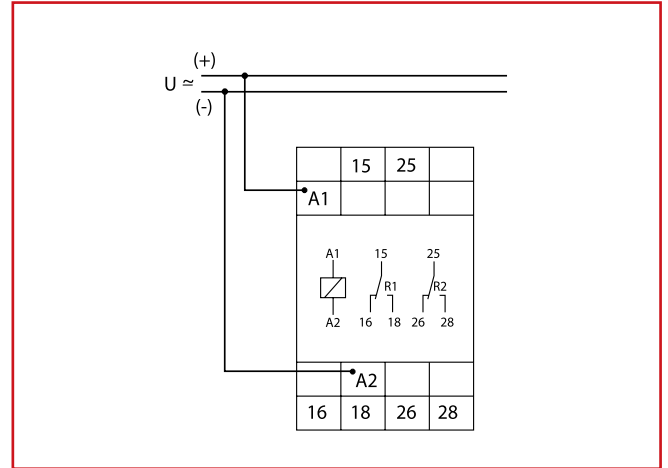
FUNCTIONS

Star-delta start up

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 U/t flashes). After the interval t_1 has expired (green LED U/t 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 contact for the delta-contactor switches into on-position. To restart the function, the supply voltage must be interrupted and reapplied.



CONNECTIONS



GEWICHT

Single packing: 106 g

ARTICLE NUMBER

| DESCRIPTION | ORDER NO. |
|--|-----------|
| Star-Delta-relay, 12-240VAC, 2 change over | ZR5SD025 |

DIMENSIONS

