- Industrial design
- Width 22.5mm
- Star-Delta start-up
- 2 normally opened 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 range (fixed)

40ms 60ms 80ms 100ms

### 3. Indicators

indication of supply voltage Green LED ON:

delta-contactor in on-position

(terminals 17-28)

Green LED flashes: indication of star-time 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 2.5mm<sup>2</sup> with/without multicore cable end

1 x 4mm<sup>2</sup> without multicore cable end

2 x 0.5 to 1.5mm<sup>2</sup> with/without multicore cable end

2 x 2.5mm<sup>2</sup> flexible without multicore cable end

### 5. Input circuit

Supply voltage:

24V DC terminals A1(+)-A2 voltage selector engaged 24V AC terminals A1-A2 voltage selector engaged

110 to 240V AC terminals A1-A2 voltage selector not engaged

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) 110V AC 2VA (1W) 230V AC 8VA (1.3W) Duration of operation: 100% Reset time: 100ms

Residual ripple for DC: >30% of the supply voltage Drop-out voltage:

## **►** 6. Output circuit

Insulation voltage:

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

8A fast acting

Fusing: Mechanical life: 20 x 10<sup>6</sup> operations Electrical life: 2 x 10<sup>5</sup> 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)

4kV, overvoltage category III Surge voltage: (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

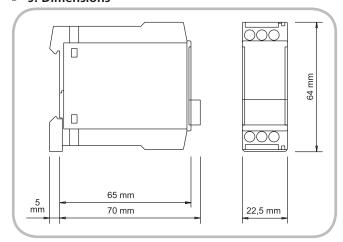
-25 to +55°C (according to IEC 68-1) -25 to +40°C (according to UL 508) Ambient temperature:

-25 to +70°C Storage temperature: -25 to +70°C Transport temperature: Relative humidity: 15% to 85%

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

Pollution degree: 3 (according to IEC 664-1)

## 9. Dimensions



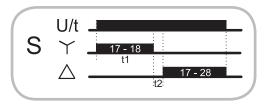
## D6DS

# Functions

#### Star-Delta start-up (S)

When the supply voltage U is applied, the contact for the star-contactor switches into on-position (yellow LED illuminated) and the set star-time t1 begins (green LED flashes). After the interval t1 has expired (green LED illuminated) 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 delta-contactor switches into on-position.

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



## Connections

