



ENYA series

4 Time ranges (Start-up time)

Wide input range

2 change over contacts

Width 35mm

Installation 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 (fixed)

40ms
60ms
80ms
100ms

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 - start-up time

Yellow LED ON/OFF: indication of star-conductor (terminals 15-18)

4. Mechanical design

Self-extinguishing plastic housing, IP rating IP40

Mounted on DIN-rail TS 35 according to EN 60715

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 240V AC/DC

Terminals: A1(+)-A2

Tolerance: -10% to +10%

Rated consumption: 4VA (1.5W)

Rated frequency: AC 48 to 63Hz

Duty cycle: 100%

Reset time: 100ms

Residual ripple to DC: 10%

Drop-out voltage: >30% of minimum rated 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: 2000VA (8A / 250V)

Fusing: 8A fast acting

Mechanical life: 20 x 10⁶ operations

Electrical life: 2 x 10⁵ operations at 1000VA resistive load

Switching frequency: max. 6/min at 1000VA resistive load
(in accordance with IEC 60947-5-1)

Overvoltage category: III (in accordance with IEC 60664-1)

Rated surge voltage: 4kV

7. Accuracy

Base accuracy: ±1% of minimum scale value

Adjustment accuracy: <5% of minimum scale value

Repetition accuracy: <0.5% or ±5ms

Voltage influence: -

Temperature influence: ≤0.01% / °C

8. Ambient conditions

Ambient temperature: -25 to +55°C

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: 2, if built in 3 (in accordance with IEC 60664-1)

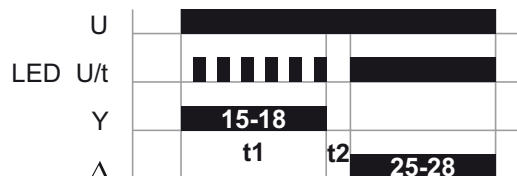
9. Weight

Single packing: 106g

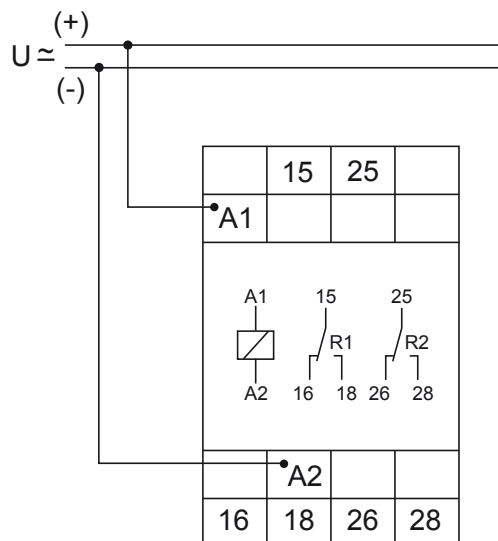
Functions

Star-Delta start-up

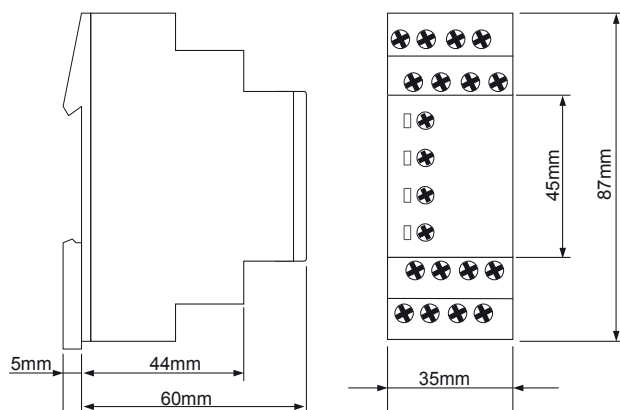
When the supply voltage U is applied, the star-contact switches into on-position (yellow LED illuminated) and the set star-time t1 begins (green LED U/t flashes). After the interval t1 has expired (green LED U/t illuminated) the star-contact switches into off-position (yellow LED not illuminated) and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



Dimensions



Ordering Informations

Types	Functiones	Supply Voltage	Part. No.
E3ZS20 12-240V AC/DC	S (Star-Delta) start up	12-240V AC/DC	111300