

Star-Delta start-up

GAMMA series Zoom voltage 24 to 240V AC/DC 2 change-over contacts Width 22.5mm Industrial design

G2ZS20 24-240V



Technical data

1. Functions

Star-Delta start-up

2. Time ranges Start-up time

art-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) indication of star-time Yellow LED ON/OFF:

 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 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

- 2×0.5 to 1.5mm^2 with/without multicore cable end
- 2 x 2.5mm² flexible without multicore cable end

5. Input circuit

Supply voltage: 24 to 240V AC/DC terminals A1-A2 (galvanically separated) Tolerance: 24 to 240V DC -20% to +25% 24 to 240V AC -15% to +10% Rated frequency: 24 to 240V AC 48 to 400Hz 16 to 48Hz 48 to 240V AC Rated consumption: 4.5VA (1W) Duration of operation: 100% Reset time: 500ms Wave form for AC: Sinus Residual ripple for DC: 10% >15% of the supply voltage Drop-out voltage: Overvoltage category: III (in accordance with IEC 60661-1) 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: Mechanical life: Electrical Life: Switching frequency: 5A fast acting 20 x 10⁶ operations 2 x 10⁵ operations at 1000VA resistive load max. 60/min at 1000VA 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: Frequency response: Adjustment accuracy: Repetition accuracy: Voltage influence: Temperature influence:

8. Ambient conditions

Ambient temperature: Storage temperature:

- Transport temperature: Relative humidity: Pollution degree:
- Vibration resistance:

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Shock resistance:
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±1% (of maximum scale value)

≤5% (of maximum scale value) <0.5% or ±5ms

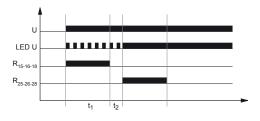
≤0.01% / °C

-25 to +55°C (in accordance with IEC 60068-1) -25 to +40°C (in accordance with UL 508) -25 to +70°C -25 to +70°C 15% to 85% (in accordance with IEC 60721-3-3 class 3K3) 3 (in accordance with IEC 60664-1) 10 to 55Hz 0.35mm (in accordance with IEC 60068-2-6) 15g 11ms (in accordance with IEC 60068-2-27)

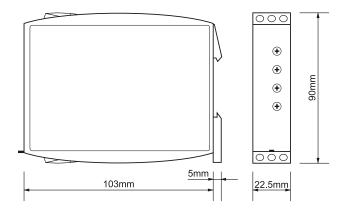
Functions

Star-Delta start-up (S)

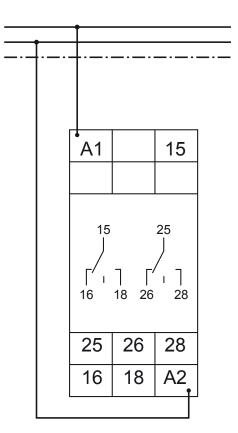
When the supply voltage U is applied, the star-contact switches into onposition (yellow LED illuminated) and the set star-time t1 begins (green LED flashing). After the interval t1 has expired (green LED illuminated) the star-contact switches into off-position (yellow LED not illuminated) and the set transit-time t2 begins. After the interval t2 has expired the delta-contact switches into on-position. To restart the function the supply voltage must be interrupted and re-applied.



Dimensions



Connections



RELEASE 2009/07

Subject to alterations and errors

