

- ▶ Industrial design
- ▶ Width 22.5mm
- ▶ OFF delay without auxiliary voltage
- ▶ 4 time ranges
- ▶ 2 change over contacts



## Technical data

### 1. Functions

A OFF delay without auxiliary voltage

### 2. Time ranges

Time range	Adjustment range		
1s	100ms	1s	
10s	1s	10s	
1min	6s	1min	
3min	18s	3min	(D12DA 3min)
10min	1min	10min	(D12DA 10min)

### 3. Indicators

Green LED ON: indication of supply voltage

### 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  
 Initial torque: max. 1Nm  
 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 DC	250mW
24V AC	1VA (500mW)
110V AC	2VA (500mW)
230V AC	8VA (1.3W)

Duration of operation:	100% (min. 2s)
Reset time:	500ms
Residual ripple for DC:	10%
Drop-out voltage:	>10% of the supply voltage

### 6. Output circuit

2 potential free change over contacts  
 Switching capacity (distance < 5mm): 750VA (3A / 250V AC)  
 Switching capacity (distance > 5mm): 1250VA (5A / 250V AC)  
 Fusing: 6A fast acting  
 Mechanical life: 20 x 10<sup>6</sup> operations  
 Electrical life: 1 x 10<sup>3</sup> operations at 1000VA resistive load

Switching frequency: max. 10/min at 100VA resistive load  
 max. 3/min at 1000VA resistive load (according to IEC 947-5-1)  
 Insulation voltage: 250V AC (according to IEC 664-1)  
 Surge voltage: 4kV, overvoltage category III (according to IEC 664-1)

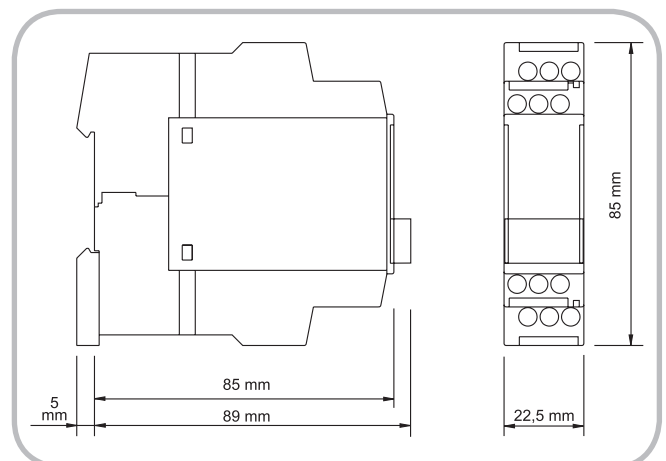
### 7. Accuracy

Base accuracy: -2% to +8% (of maximum scale value)  
 -5% to +15% (of maximum scale value for time ranges 3min, 10min)  
 Adjustment accuracy: ≤8% (of maximum scale value)  
 Repetition accuracy: <2% or ±5ms  
 Voltage influence: ≤0.1% / 1% supply voltage change  
 Temperature influence: ≤0.01% / °C

### 8. Ambient conditions

Ambient temperature: -25 to +55°C (according to IEC 68-1)  
 -25 to +40°C (according to UL 508)  
 Storage temperature: -25 to +70°C  
 Transport temperature: -25 to +70°C  
 Relative humidity: 15% to 85% (according to IEC 721-3-3 class 3K3)  
 Pollution degree: 3 (according to IEC 664-1)

### 9. Dimensions

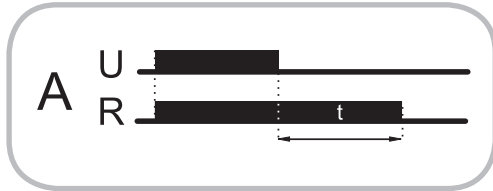


## Functions

### OFF delay without auxiliary voltage (A)

When the supply voltage U is applied (green LED illuminated), the output relay R switches into on-position. If the supply voltage is interrupted (green LED not illuminated), the set interval t begins. After the interval t has expired the output relay switches into off-position.

If the supply voltage is re-applied before the interval t has expired, the interval already expired is erased and is restarted with the next cycle.



## Connections

