

311-2093

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## Technical Data 31

### - actuator with snap-action switching element

#### switching system

Self-cleaning, double-break, snap action switching system. (with contact gap 2 x 0.5 mm).

1 normally closed or 1 normally open contact per element.

Up to 4 switching elements can be on a pushbutton (max. 4 normally closed and 4 normally open contacts).

#### material

##### **material of contacts**

gold-plated silver

##### **switching element**

axial plug-in-/soldering terminal 2.8 mm:

diallyl phthalate DAP, polyamide 66, polysulfone, heat-resistant and self-extinguishing

soldering terminal: PA 6.6 Ultramid

##### **actuator case**

polyetherimide, self-extinguishing

#### mechanical characteristics

##### **connection method**

soldering terminal:

max. wire diameter: 1 wire of 1.5 mm<sup>2</sup>

max. wire cross-section of stranded cable: 2 x 0.75 mm<sup>2</sup> or 1 x 1.0 mm<sup>2</sup>

snap-action switching element with axial plug-in terminals, which can also be used as soldering terminals:

plug-in terminal: 2.8 x 0.5 mm

soldering terminal:

max. wire diameter: 2 wires of 1 mm

max. wire cross-section of stranded cable: 2 x 0.75 mm<sup>2</sup>

##### **actuating force**

2-5.5 N, depending on the number of switching elements

##### **actuating travel**

3 mm

##### **resistance to climate**

standard condition as per IEC 68-2-3 and 2-30

changing condition as per IEC 68-2-14 and 2-33

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**storage temperature**

-40 °C to +85 °C

**mechanical life**

momentary action 2 mio. cycles of operation

maintained action 1 mio. cycles of operation

**rebound time**

≤ 5ms

**resistance to shock**

(single impacts, semi-sinusoidal)

15 g for 11 ms as per IEC 512-4-3, IEC 68-2-27

**degree of protection**

front as per IEC 529:

IP 40

IP 67 with spray cover

**resistance to vibration**

(sinusoidal)

10 g at 0-2000 Hz, amplitude 1.5 mm as per IEC 512-4-4, IEC 68-2-6

**ambient air temperature**

-25 °C to +55 °C

for indicators and illuminated pushbuttons mounted as a block , make sure the heat can escape freely

for indicators and illuminated pushbuttons mounted as a block, make sure the heat can escape freely

**electrical characteristics**

**rated voltage**

250 VAC/VDC

**rated current**

5 A

**volume resistance**

starting value (initial) ≤ 50 mOhm

**continuous thermal current Ith2**

5 A

The maximum current in continuous operation and at ambient temperature not exceeding the quoted maximum values.

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**switch rating**

250 VAC/5 A (cos phi 1)

250 VAC/3 A (cos phi 0.3)

switch rating AC, cos phi 0,7:

voltage 125 V 250 V

current 3 A 2 A

switch rating DC (inductive), L:R = 30 ms:

voltage 24 V 60 V 110 V 220 V

current 2 A 0,7 A 0,2 A 0,1 A

**protection class**

II

**electric strength**

2500 VAC, 50 Hz, 1 min. between all terminals and earth, as per IC 512-2-11.

**approvals**

- SEV 250 VAC/5 A

- CSA 300 VAC

- UL

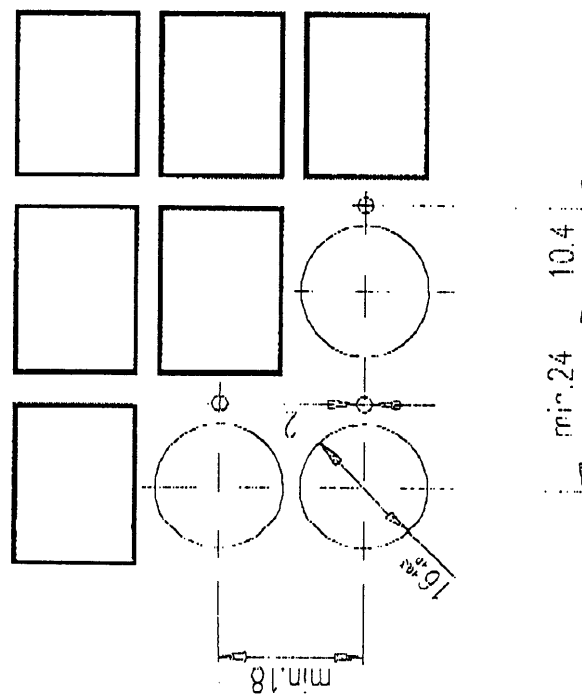
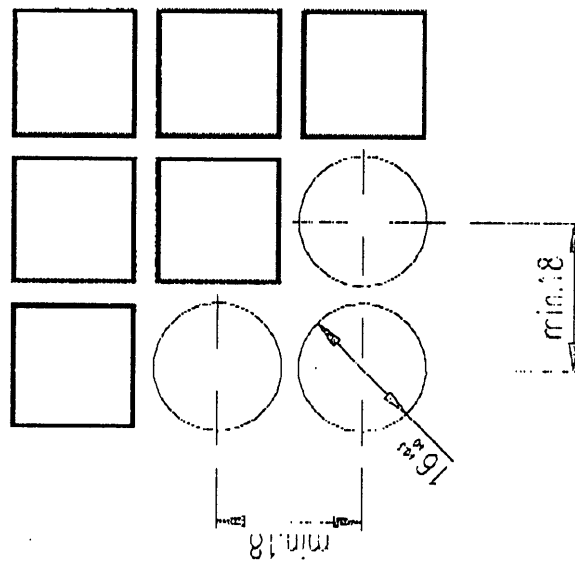
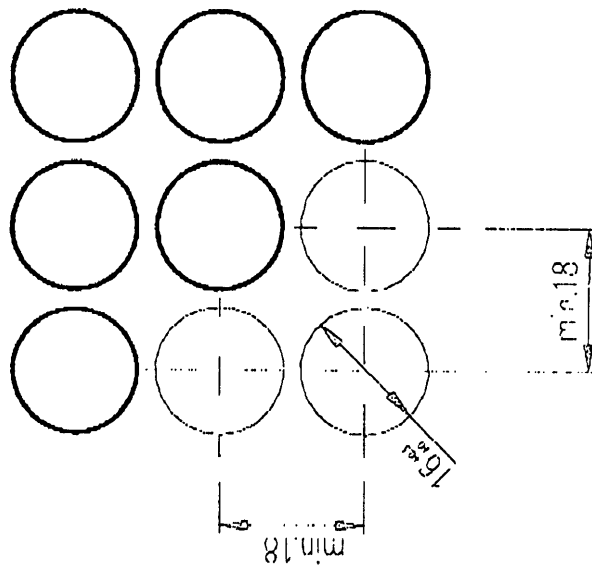
- VDE

- CE

**rules**

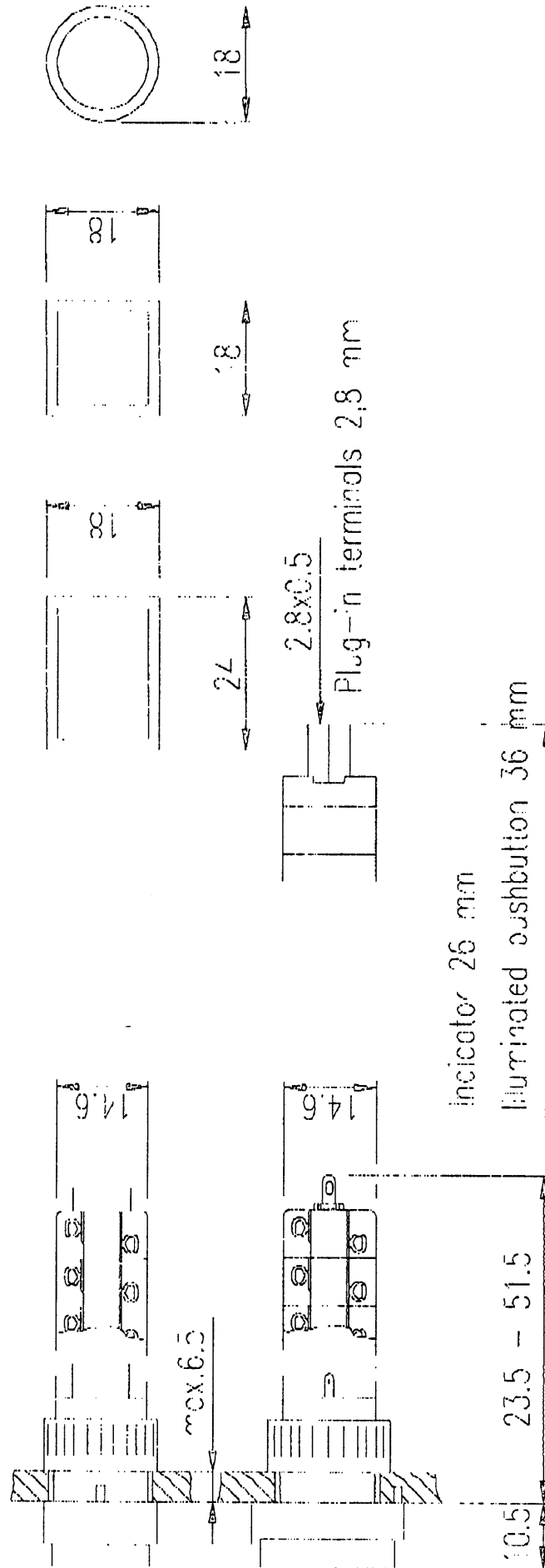
IEC 1058 EN 61 058

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Dimensional drawing - Type Number: 31-122.025



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