



Technical Data 31

- actuator with snap-action switching element

switching system

Self-cleaning, double-break, snap action switching system. (with contact gap 2×0.5 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^2

max. wire cross-section of stranded cable: $2 \times 0.75 \text{ mm}^2$ or $1 \times 1.0 \text{ mm}^2$

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

plug-in terminal: 2.8×0.5 mm

soldering terminal:

max. wire diameter: 2 wires of 1 mm

max. wire cross-section of stranded cable: $2 \times 0.75 \text{ mm}^2$

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



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

$\leq 5\text{ms}$

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) $\leq 50\text{ mOhm}$

continuous thermal current Ith2

5 A

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



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.

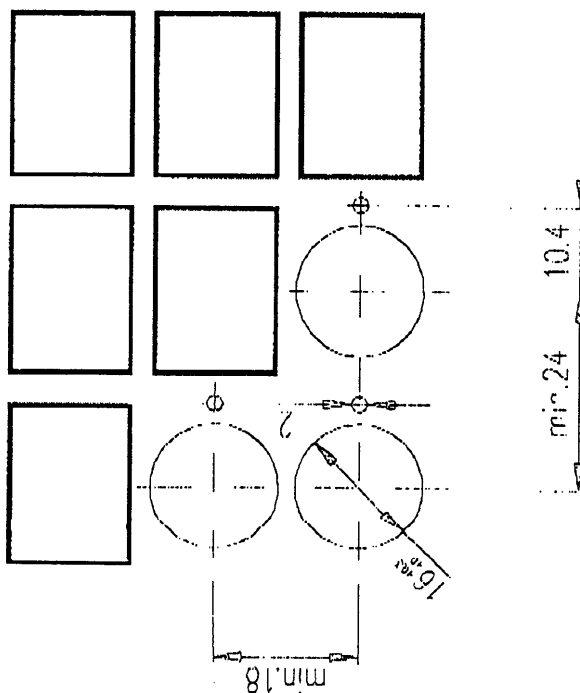
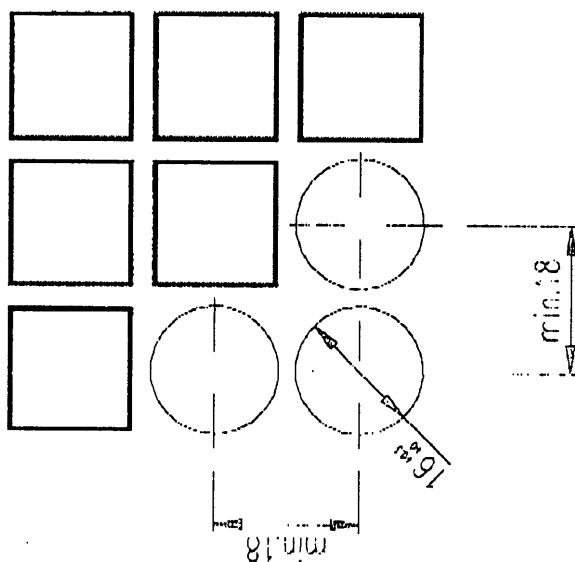
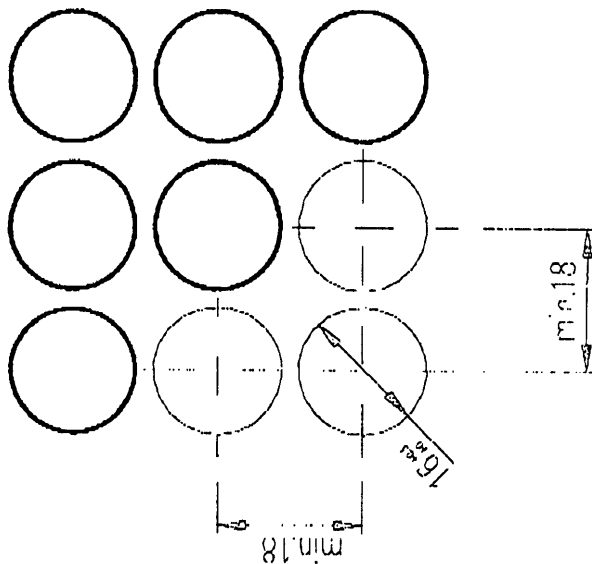
approvals

- SEV 250 VAC/5 A
- CSA 300 VAC
- UL
- VDE
- CE

rules

IEC 1058 EN 61 058

Mounting dimensions - Type Number: 31-122.025



Dimensional drawing - Type Number: 31-122.025

