

Switching element - Not recommended for new design

704.900.3







704.900.3 Switching element - Not recommended for new design

PRODUCT RANGE

Product Status: Not Recommended for new design

successor product: https://www.eao.com/c/704.900.3-1

ELECTRICAL CHARACTERISTICS

Switching voltage and switching current:

as per DIN EN IEC 60947-5-1		
voltage	DC13	AC15
24 V	2,5 A	
60 V	0,8 A	
110 V	0,6 A	
120 V		4,5 A
230 V	0,2 A	4,5 A
400 V	0,15 A	4,0 A
500 V	0,7 A	2,5 A
as per UL 60947-5-1		

voltage power 2,5 A, Pilot duty 24 VDC 60 VDC 0,8 A, Pilot duty 120 VDC 0,6 A, Pilot duty 240 VDC 0,2 A, Pilot duty 415 VDC 0,15 A, Pilot duty 480 VDC 0,07A, Pilot duty 120 VAC 4,5 A, Pilot duty 240 VAC 4,5 A, Pilot duty 415 VAC 4,0 A, Pilot duty 480 VAC 2,5 A, Pilot duty

For voltages greater than Ue = 400 V, the grid dimensions must not be less than 35 mm x 50 mm.

Contacts: 2 NO

Rated impulse withstand voltage Uimp:

4 kV, according to EN/IEC 60947-5-1

Rated insulation voltage Ui: 500 V

Recommended minimum Gold-silver contacts operational data:

 Voltage
 5 VDC
 24 VDC
 110 VDC

 Current
 15 mA
 5 mA
 2 mA

Hard silver contacts

 Voltage
 24 VDC
 110 VDC

 Current
 50 mA
 10 mA

Switching rating: 500 V AC @ 10 A

Electrical lifetime: 50 000 cycles of operation

Pollution degree:

Standards: The switches comply with the "Standards for low-voltage switching devices" EN

IEC 60947-5-1

Thermal current Ith: 10 A Max. permissible current for continuous operation and ambient temperatures

not exceeding the specified max. values.

MECHANICAL CHARACTERISTICS

Terminal: Screw terminal

Contact material: Silver

Switching system: Snap-action switching element

Switching system: The double-break, snap-action switching element is equipped with one or two

independent contact systems, acting as normally open or normally closed contact.

The snap-action switching element is fitted with self-cleaning contacts.

Operating force: 1 Normally closed approx. 1.9 N, 1 Normally open approx. 2 N

Tightening torque: Screw terminal 0.5 Nm

Wire cross section: Max. wire cross-section 2 mm x 2.5 mm²

Skinning wire 10 mm

Max. wire cross-section of stranded cable 2 x 1.5 mm² use stranded wires only with wire end ferrules of 10 mm length

Only one polarity is allowed on each side when wiring.

Weight: 0.029 kg

AMBIENT CONDITION

IP Protection: IP00

Operating temperature: $-40 \, ^{\circ}\text{C} \, ... \, + 55 \, ^{\circ}\text{C}$

Storage temperature: $-40 \, ^{\circ}\text{C} \, ... + 85 \, ^{\circ}\text{C}$

Shock resistance: 300 m/s², pulse width 11 ms, 3-axis, (single impacts, semi-sinusoidal as per DIN

EN 60068-2-27)

Vibration resistance: 100 m/s² at 10 Hz ... 500 Hz, amplitude 0.75 mm, (sinusoidal according to DIN EN

60068-2-6)

Climate resistance: Relative humidity, max. 95%, non-condensing

CERTIFICATE

Approbations: CB (IEC 60947-5-1), cULus, DNV, EAC, NFF, VDE

Conformities: CE, CCC, UKCA

REACH: REACH compliant

OTHER

Short Description:

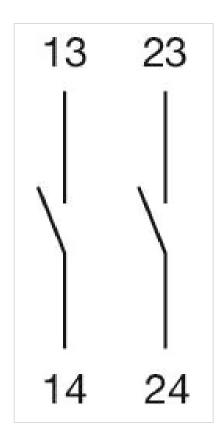
Switching element - Not recommended for new design, Snap-action switching element, 500 V AC @ 10 A, Silver, 2 NO, Screw terminal

Hints:

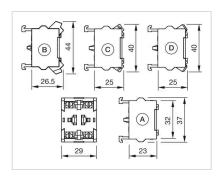
When using the switching element, the application guidelines must be observed. For the third switching element the terminal marking insert is to be ordered separately

Operating temperature: Other temperatures on request

Wiring diagrams:



Dimension drawings:



A = Screw terminal

B = Push-in terminal (PIT)

C = Plug-in terminal 6.3 mm x 0.8 mm

D = Double plug-in terminal 6.3 mm x 0.8

mm