

# Switching element - New Version

704.905.3-1

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## 704.905.3-1 Switching element - New Version

### 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
24 VDC	2,5 A, Pilot duty
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  $U_e = 400$  V, the grid dimensions must not be less than 35 mm x 50 mm.

#### Contacts:

2 NO

#### Rated impulse withstand voltage $U_{imp}$ :

4 kV

#### Rated insulation voltage $U_i$ :

500 V

#### Recommended minimum operational data:

Gold-silver contacts			
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 @ 6 A

#### Electrical lifetime:

50 000 cycles of operation (500 VAC, 10 A)

#### Pollution degree:

3

#### Standards:

The switches comply with the "Standards for low-voltage switching devices" DIN EN IEC UL 60947-5-1

**Thermal current I<sub>th</sub>:** Max. current as per EN IEC 60947-5-1 10 A

## MECHANICAL CHARACTERISTICS

**Terminal:** Plug-in terminal, 6.3 x 0.8 mm

**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

**Wire cross section:** Plug-in terminal 1 x 6.3 mm x 0.8 mm or 2 x 2.8 mm x 0.8 mm  
For switches with plug-in terminals it is necessary to provide insulation sleeves and to maintain a spacing of 65 mm between rows (mounting cut-outs).

**Weight:** 0.016 kg

## AMBIENT CONDITION

**IP Protection:** IP00

**Operating temperature:** - 40 °C ... + 55 °C

**Storage temperature:** - 40 °C ... + 85 °C

**Shock resistance:** (single impacts, semi-sinusoidal) 300 m/s<sup>2</sup>, pulse width 18 ms, as per DIN EN 60068-2-27

**Vibration resistance:** (sinusförmig) 100 m/s<sup>2</sup> bei 10 Hz...500 Hz, nach DIN EN 60068-2-6, Erhöhtes Breitbandrauschen nach DIN EN 61373, Klasse 1B

**Climate resistance:** Relative humidity 10 %rh ... 95 %rh (non-condensing) original packaging according to DIN EN IEC 60721-3-1 Class 1C1

## CERTIFICATE

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

**Conformities:** CE, CCC, UKCA

**REACH:** REACH compliant

**RoHS:** RoHS compliant

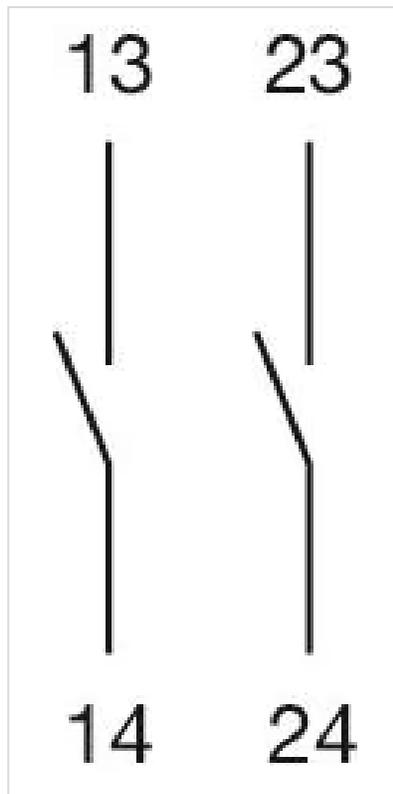
## OTHER

**Short Description:** Switching element - New Version, Snap-action switching element, 500 V AC @ 6 A, Silver, 2 NO, Plug-in terminal, 6.3 x 0.8 mm

**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  
A suitable enclosure is required for applications with increased protection requirements. In North America, the product must be installed in an enclosure in accordance with UL 50E Type 2 or higher.

**Wiring diagrams:**



**Dimension drawings:**

