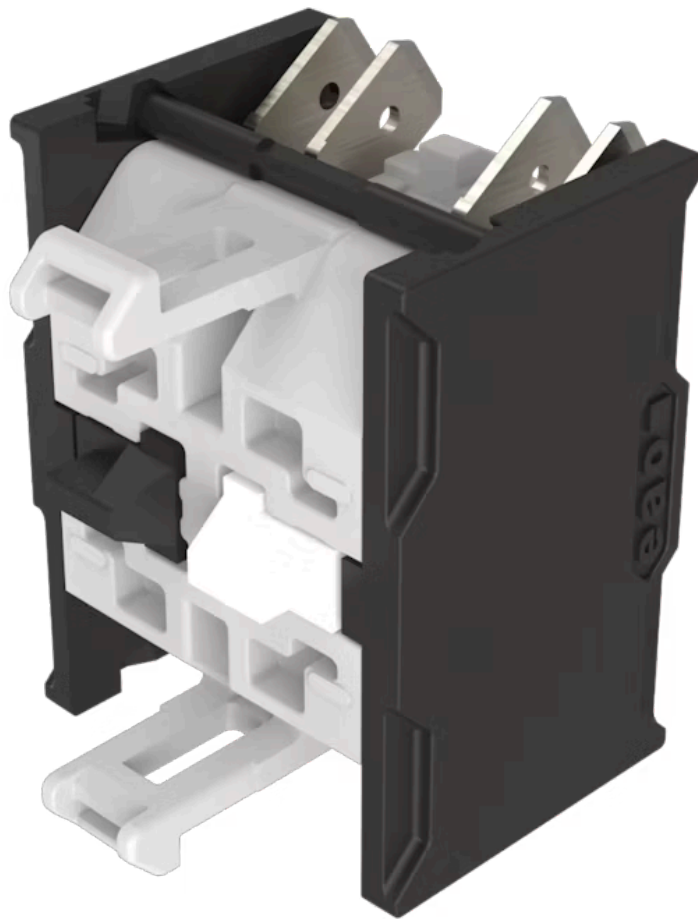


# Switching element - New Version

704.901.5/D-1

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## 704.901.5/D-1 Switching element - New Version

*Loading ...*

### 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,<br>the grid dimensions must not be<br>less than 35 mm x 50 mm. |  |                    |       |

**Contacts:** 1 NC / 1 NO

**Forward voltage:**

**Rated impulse withstand voltage  
Uimp:** 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

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

### MECHANICAL CHARACTERISTICS

**Terminal:** Double plug-in terminal, 6.3 x 0.8 mm

**Contact material:** Gold

**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:** Double plug-in terminal 2 x 6.3 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:** 0.025 kg

### AMBIENT CONDITION

**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

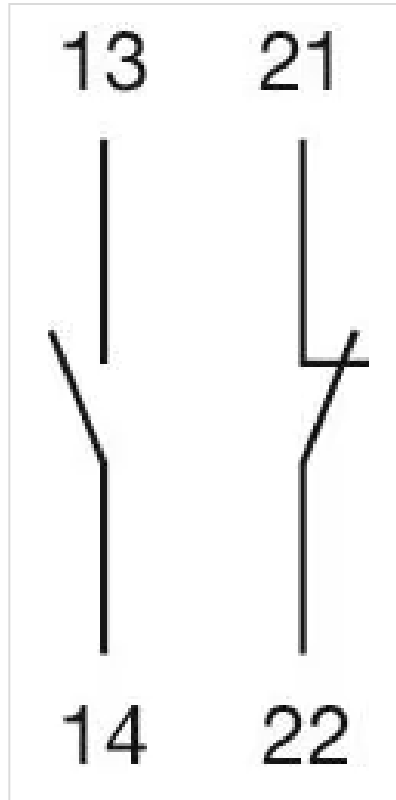
**Short Description:** Switching element - New Version, Snap-action switching element, 500 V AC @ 6 A, Gold, 1 NC / 1 NO, Double plug-in terminal, 6.3 x 0.8 mm

**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:**

