

# Switching element

61-8755.17



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Your product:

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## 61-8755.17 Switching element

### ELECTRICAL CHARACTERISTICS

**Recommended minimum operational data:**

Voltage 20 VAC/DC  
Current 100 mA

**Standards:**

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

**Thermal current I<sub>th</sub>:**

5 A, according to EN / IEC 60947-5-1

**Contact resistance:**

New state  $\leq 50$  m $\Omega$ , as per DIN/IEC 60512-2-4, measured at 100 mA, 10 V

**Electric strength:**

4000 VAC, 50 Hz, 1 minute, as per DIN / IEC 60512-2 between all terminals and earth

**Overvoltage category:**

III, according to EN / IEC 60947-5-1

**Protection class:**

II, according to EN / IEC 61058-1

**Rated impulse withstand voltage U<sub>imp</sub>:**

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

**Rated insulation voltage U<sub>i</sub>:**

320 VAC, according to EN / IEC 60947-5-1

**Rated Operational Voltage U<sub>e</sub>:**

250 VAC/DC according to EN IEC 60947-1

**Contacts:**

2 NC

**Electrical lifetime:**

6050 cycles of operation according to EN/IEC 60947-5-5

**Pollution degree:**

3, according to EN IEC 60947-1

### MECHANICAL CHARACTERISTIC

**Switching positions:**

2 positions

**Switching system:**

Double-break slow-make system, contact opening width 2 x 1.5 mm, with 2 x 2 contact points per switching element.  
NC-contact elements in the slow-make elements fulfill requirements of switches with forced opening as per EN / IEC 60947-5-12.17.

**Wire cross section:**

1 wire flexible: 0.5 ... 0.75 mm<sup>2</sup>  
1 wire super flexible: 0.5 mm<sup>2</sup>  
1 wire rigid: 0.5 ... 1.5 mm<sup>2</sup>  
2 wires flexible: 0.5 ... 0.75 mm<sup>2</sup>  
2 wires super flexible: 0.5 mm<sup>2</sup>

2 wires rigid: 0.5 ... 1.5 mm<sup>2</sup>

<b>Terminal:</b>	Plug-in terminal, 2.8 x 0.5 mm
<b>Operating Travel:</b>	10 mm
<b>Weight:</b>	0.008 kg
<b>Contact material:</b>	Silver
<b>Switching system:</b>	Slow-make switching element
<b>Mechanical lifetime:</b>	50 000 cycles of operation
<b>Operating force:</b>	Max. 65 N

### **AMBIENT CONDITION**

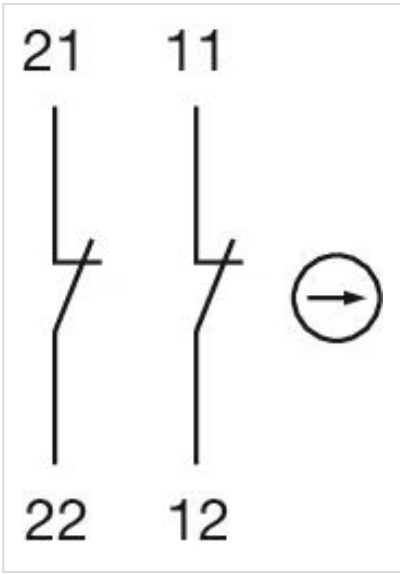
<b>Vibration resistance:</b>	Max. 100 m / s <sup>2</sup> from 10 Hz ... 500 Hz, (sinusoidal EN IEC 60068-2-6)
<b>Shock resistance:</b>	Max. 100 m / s <sup>2</sup> , pulse width, 3-axis (sinusoidal EN IEC 60068-2-27)
<b>Climate resistance:</b>	Damp heat, cyclic: 96 hours, + 25 °C/97 %, + 55 °C/93 % relative humidity, as per EN IEC 60068-2-30 Damp heat, steady: 56 days, + 40 °C/93 % relative humidity, according to EN IEC 60068-2-78 Rapid change of temperature: 100 cycles, – 40 °C ... + 80 °C, as per EN / IEC 60068-2-14
<b>IP Protection:</b>	IP40
<b>Operating temperature:</b>	– 25 °C ... + 55 °C
<b>Storage temperature:</b>	– 40 °C ... + 85 °C

### **CERTIFICATE**

<b>Approbations:</b>	CB (IEC 60947-5-1), CB (IEC 61058-1), CENELEC CCA-NTR (EN 60947-5-1), CQC, CSA, DNV, EAC, ENEC (EN 61058-1), NFF, SEV (EN / IEC 60947-5-1), UL
<b>Conformities:</b>	CE, UKCA, 2011 / 65 / EC (RoHS), 2014 / 35 / EU (LVD)

### **OTHER**

<b>Material:</b>	Plastic, according to UL 94 V0
<b>Short Description:</b>	Switching element, Slow-make switching element, 250 V AC/DC @ 5 A, Silver, 2 NC, Plug-in terminal, 2.8 x 0.5 mm
<b>Hints:</b>	Without lamp terminal
<b>Wiring diagrams:</b>	



Component layouts:

