

# Switching element

61-8755.17

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## 61-8755.17 Switching element

### ELECTRICAL CHARACTERISTICS

|  |  |         |           |         |        |
|--|--|---------|-----------|---------|--------|
| <b>Contacts:</b>   | 2 NC   |         |           |         |        |
| <b>Contact resistance:</b>                                   | New state $\leq 50 \text{ m}\Omega$ , as per DIN/IEC 60512-2-4, measured at 100 mA, 10 V           |         |           |         |        |
| <b>Rated Operational Voltage <math>U_e</math>:</b>           | 250 VAC/DC according to EN IEC 60947-1   |         |           |         |        |
| <b>Rated impulse withstand voltage <math>U_{imp}</math>:</b> | 4 kV, according to EN/IEC 60947-5-1  |         |           |         |        |
| <b>Rated insulation voltage <math>U_i</math>:</b>            | 320 VAC, according to EN / IEC 60947-5-1   |         |           |         |        |
| <b>Recommended minimum operational data:</b>                 | <table><tr><td>Voltage</td><td>20 VAC/DC</td></tr><tr><td>Current</td><td>100 mA</td></tr></table> | Voltage | 20 VAC/DC | Current | 100 mA |
| Voltage  | 20 VAC/DC  |         |           |         |        |
| Current  | 100 mA   |         |           |         |        |
| <b>Switching rating:</b>                                     | 250 V AC/DC @ 5 A  |         |           |         |        |
| <b>Electrical lifetime:</b>                                  | 6050 cycles of operation according to EN/IEC 60947-5-5   |         |           |         |        |
| <b>Electric strength:</b>                                    | 4000 VAC, 50 Hz, 1 minute, as per DIN / IEC 60512-2 between all terminals and earth                |         |           |         |        |
| <b>Overvoltage category:</b>                                 | III, according to EN / IEC 60947-5-1   |         |           |         |        |
| <b>Pollution degree:</b>                                     | 3, according to EN IEC 60947-1   |         |           |         |        |
| <b>Protection class:</b>                                     | II, according to EN / IEC 61058-1  |         |           |         |        |
| <b>Standards:</b>  | The switches comply with the "Standards for low-voltage switching devices" EN IEC 60947-5-1        |         |           |         |        |
| <b>Thermal current <math>I_{th}</math>:</b>                  | 5 A, according to EN / IEC 60947-5-1   |         |           |         |        |

### MECHANICAL CHARACTERISTIC

|                          |  |
|--------------------------|--|
| <b>Terminal:</b>         | Plug-in terminal, 2.8 x 0.5 mm   |
| <b>Contact material:</b> | Silver   |
| <b>Switching system:</b> | Slow-make switching element  |
| <b>Switching system:</b> | Double-break slow-make system, contact opening width 2 x 1.5 mm, with 2 x 2 contact points per switching element.<br>NC-contact elements in the slow-make elements fulfill requirements of switches with forced opening as per EN / IEC 60947-5-12.17. |

|                             |   |
|-----------------------------|---|
| <b>Switching positions:</b> | 2 positions   |
| <b>Mechanical lifetime:</b> | 50 000 cycles of operation  |
| <b>Operating force:</b>     | Max. 65 N   |
| <b>Operating Travel:</b>    | 10 mm   |
| <b>Wire cross section:</b>  | 1 wire flexible: 0.5 ... 0.75 mm <sup>2</sup><br>1 wire super flexible: 0.5 mm <sup>2</sup><br>1 wire rigid: 0.5 ... 1.5 mm <sup>2</sup><br>2 wires flexible: 0.5 ... 0.75 mm <sup>2</sup><br>2 wires super flexible: 0.5 mm <sup>2</sup><br>2 wires rigid: 0.5 ... 1.5 mm <sup>2</sup> |
| <b>Weight:</b>              | 0.008 kg  |

### AMBIENT CONDITION

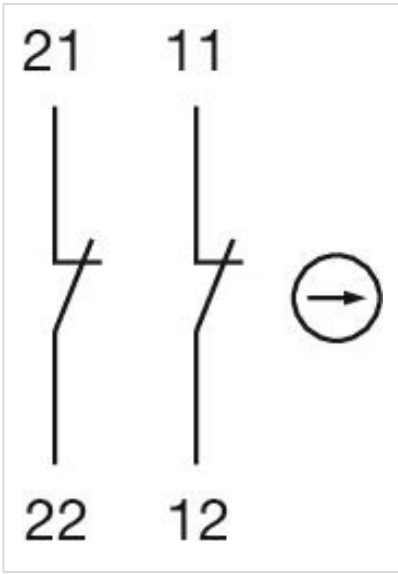
|                               |   |
|-------------------------------|---|
| <b>IP Protection:</b>         | IP40  |
| <b>Operating temperature:</b> | - 25 °C ... + 55 °C   |
| <b>Storage temperature:</b>   | - 40 °C ... + 85 °C   |
| <b>Shock resistance:</b>      | Max. 100 m / s <sup>2</sup> , pulse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

### 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)  |
| <b>REACH:</b>        | REACH compliant  |
| <b>RoHS:</b>         | RoHS compliant   |

### OTHER

|                           |   |
|---------------------------|---|
| <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>Material:</b>          | Plastic, according to UL 94 V0  |
| <b>Hints:</b>             | Without lamp terminal   |
| <b>Wiring diagrams:</b>   |   |



Component layouts:

