Your Expert Partner for **Human Machine Interfaces**

Switching element

61-8745.11

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Your product:

61-8745.11
Switching element

ELECTRICAL CHARACTERISTICS

Contacts:

1 NC

Contact resistance:

New state ≤ 50 mΩ, as per DIN/IEC 60512-2-4, measured at 100 mA, 10 V

Switching voltage and switching current:

Switch rating AC with silver contact		
Service category AC-15		
according to EN IEC 60947-5-1		
Voltage	125 VAC	250 VAC
Current	3 A	2 A
Switch rating DC with silver contact		
Service category DC-13		
according to EN IEC 60947-5-1		
Voltage	250 VDC	
Current	0.2 A	

Rated Operational Voltage Ue:

250 VAC/DC according to EN IEC 60947-1

Rated impulse withstand voltage Uimp:

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

Rated insulation voltage Ui:

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

Recommended minimum operational data:

Voltage	20 VAC/DC
Current	100 mA

Switching rating:

250 V AC/DC @ 5 A

Electrical lifetime:

≥50 000 cycles of operation at 250VAC, 2A, cosφ 0.95,

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

Pollution degree:

3, according to EN IEC 60947-1

Protection class:

II, according to EN / IEC 61058-1

Standards:

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

Thermal current Ith:

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

MECHANICAL CHARATERISTIC

Terminal:	Screw terminal
Contact material:	Silver
Switching system:	Slow-make switching element
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.
Switching positions:	3 positions
Wire cross section:	1 wire flexible: 0.5 ... 0.75 mm^2 1 wire super flexible: 0.5 mm^2 1 wire rigid: 0.5 ... 1.5 mm^2 2 wires super flexible: 0.5 mm^2 2 wires flexible: 0.5 mm^2 2 wires rigid: 0.75 mm^2
Weight:	0.008 kg

AMBIENT CONDITION

IP Protection:	IP40
Operating temperature:	– 25 °C ... + 55 °C
Storage temperature:	– 40 °C ... + 85 °C
Shock resistance:	Max. 100 m / s^2, pulse width, 3-axis (sinusoidal EN IEC 60068-2-27)
Vibration resistance:	Max. 100 m / s^2 from 10 Hz ... 500 Hz, (sinusoidal EN IEC 60068-2-6)
Climate resistance:	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

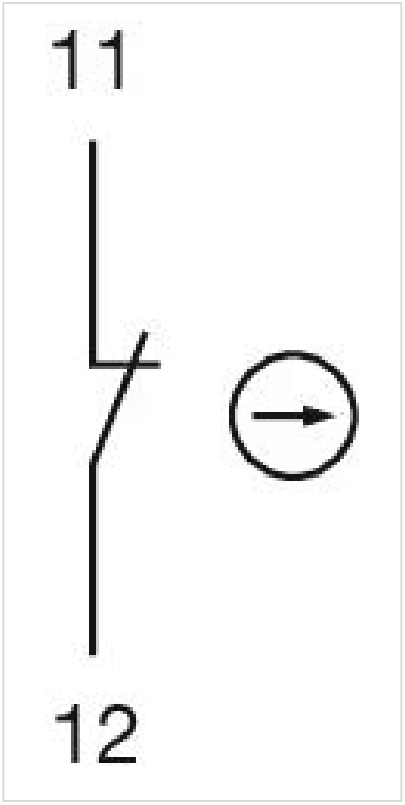
CERTIFICATE

Approbations:	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
Conformities:	CE, UKCA, 2011 / 65 / EC (RoHS), 2014 / 35 / EU (LVD)
REACH:	REACH compliant
RoHS:	RoHS compliant

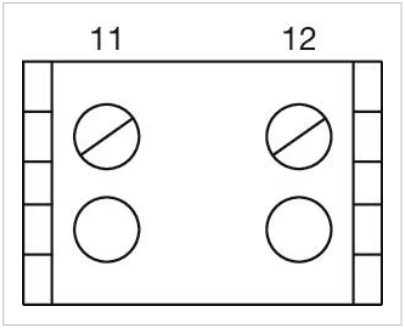
OTHER

Short Description:	Switching element, Slow-make switching element, 250 V AC/DC @ 5 A, Silver, 1 NC, Screw terminal
Material:	Plastic, according to UL 94 V0

Wiring diagrams:



Component layouts:



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