

Switching element - New Version

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704.911.5/D-1



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Your product:



704.911.5/D-1 Switching element - New Version

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ELECTRICAL CHARACTERISTICS

Switching voltage and switching current:

| | | |
|-----------------------------|--------|-------|
| as per DIN EN IEC 60947-5-1 | | |
| voltage | DC13 | AC15 |
| 24 V | 4.0 A | 8.0 A |
| 60 V | 1.5 A | 8.0 A |
| 110 V | 1.0 A | |
| 120 V | | 8.0 A |
| 230 V | 0.4 A | 7.0 A |
| 400 V | 0.2 A | 5.0 A |
| 500 V | 0.15 A | 4.0 A |

as per UL 60947-5-1

| | |
|---------|-------------------|
| voltage | power |
| 24 VDC | 4.0 A, Pilot duty |
| 60 VDC | 1.5 A, Pilot duty |
| 120 VDC | 1.0 A, Pilot duty |
| 240 VDC | 0.4 A, Pilot duty |
| 415 VDC | 0.2 A, Pilot duty |
| 480 VDC | 0.14A, Pilot duty |
| 120 VAC | 8.0 A, Pilot duty |
| 240 VAC | 7.0 A, Pilot duty |
| 415 VAC | 5.0 A, Pilot duty |
| 480 VAC | 4.0 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:

1 NC / 1 NO

Rated impulse withstand voltage U_{imp} :

4 kV

Rated insulation voltage U_i :

500 V

Recommended minimum operational data:

| | | |
|----------------------|--------|---------|
| Gold-silver contacts | | |
| Voltage | 24 VDC | 110 VDC |
| Current | 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_{th}: 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: Slow-make switching element

Switching system: The double-break, slow-make switching element is equipped with one or two independent contact systems, acting as normally open or normally closed contact. The normally closed contact has forced opening. Slow-make contacts with forced action are ideal for high switch ratings.

Operating force: 1 Normally closed approx. 2 N, 1 Normally open approx. 3 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: 0.028 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/s², pulse width 18 ms, as per DIN EN 60068-2-27

Vibration resistance: (sinusförmig) 100 m/s² 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, Slow-make 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.

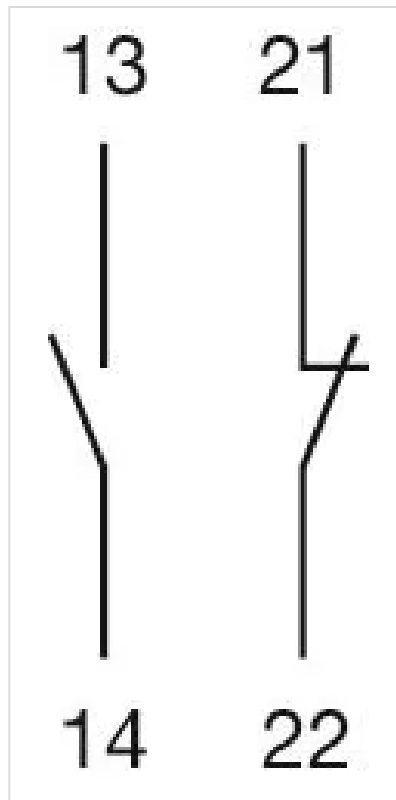
For the third switching element the terminal marking insert is to be ordered separately
 Operating temperature: Other temperatures on request
 A suitable enclosure is required for applications with increased protection requirements. In North America, the product must be installed in an enclosure in accordance with UL 50E Type 2 or higher.

Special requirements:

Special requirements for positive-opening auxiliary current switches
 Positive opening travel
 Minimum force
 Max. travel

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Wiring diagrams:



Dimension drawings:

