

Switching element - New Version

Distribution by
DigiKey

DigiKey

704.910.4BFS-1



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Your product:



704.910.4BFS-1

Switching element - New Version

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 FS

Rated impulse withstand voltage U_{imp} : 4 kV

Rated insulation voltage Ui : 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 @ 10 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: | Ring cable lug screw terminal |
| Contact material: | Silver |
| 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 |
| Tightening torque: | Screw terminal 0.8 Nm |
| Wire cross section: | Max. wire cross-section 2 mm x 2.5 mm ² Skinning wire 10 mm Max. wire cross-section of stranded cable 2 x 1.5 mm ² use stranded wires only with wire end ferrules of 10 mm length Only one polarity is allowed on each side when wiring. |
| Weight: | 0.026 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/s ² , pulse width 18 ms, as per DIN EN 60068-2-27 |
| Vibration resistance: | (sinusförmig) 100 m/s ² 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 @ 10 A, Silver, 1 NC / 1 FS, Ring cable lug screw terminal

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:

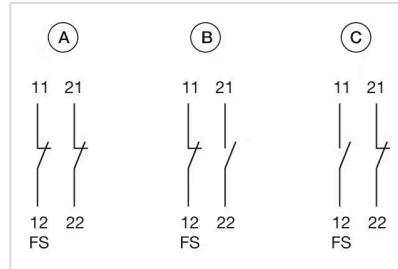
Special requirements for positive-opening auxiliary current switches

Positive opening travel

Minimum force

Max. travel

Emergency
Emergency
which i
Emergency

Wiring diagrams:

A = mounted, not actuated

B = mounted, actuated

C = not mounted, not actuated

Dimension drawings: