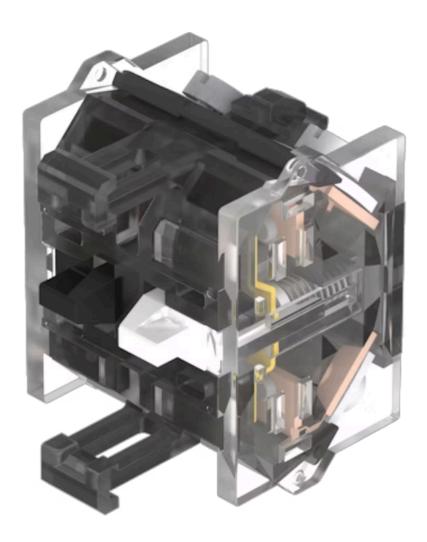


# Switching element - Not recommended for new design

704.911.4BFS







# 704.911.4BFS Switching element - Not recommended for new design

# **PRODUCT RANGE**

Product Status: Not Recommended for new design

successor product: https://www.eao.com/c/704.911.4BFS-1

## **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
ac par III 60047 5 1		

as per UL 60947-5-1 voltage power 4.0 A, Pilot duty 24 VDC 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 Ue = 400 V, the grid dimensions must not be less than 35 mm x 50 mm.

Contacts: 1 NC / 1 FS

Rated impulse withstand voltage Uimp:

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

Rated insulation voltage Ui: 500 V

Recommended minimum Gold-silver contacts operational data:

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 @ 10 A

**Electrical lifetime:** 50 000 cycles of operation

Pollution degree:

Standards: The switches comply with the "Standards for low-voltage switching devices" EN

IEC 60947-5-1

**Thermal current Ith:** 10 A Max. permissible current for continuous operation and ambient temperatures

not exceeding the specified max. values.

#### **MECHANICAL CHARACTERISTICS**

**Terminal:** Screw terminal

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

**Tightening torque:** Screw terminal 0.5 Nm

Wire cross section: Max. wire cross-section 2 mm x 2.5 mm<sup>2</sup>

Skinning wire 10 mm

Max. wire cross-section of stranded cable 2 x 1.5 mm<sup>2</sup> use stranded wires only with wire end ferrules of 10 mm length

Only one polarity is allowed on each side when wiring.

**Weight:** 0.027 kg

# **AMBIENT CONDITION**

IP Protection: IP00

Operating temperature:  $-40 \, ^{\circ}\text{C} \dots + 55 \, ^{\circ}\text{C}$ 

Storage temperature:  $-40 \, ^{\circ}\text{C} \dots + 85 \, ^{\circ}\text{C}$ 

**Shock resistance:** 300 m/s², pulse width 11 ms, 3-axis, (single impacts, semi-sinusoidal as per DIN

EN 60068-2-27)

**Vibration resistance:** 100 m/s² at 10 Hz ... 500 Hz, amplitude 0.75 mm, (sinusoidal according to DIN EN

60068-2-6)

Climate resistance: Relative humidity, max. 95%, non-condensing

## **CERTIFICATE**

**Approbations:** CB (IEC 60947-5-1), cULus, DNV, EAC, NFF, VDE

Conformities: CE, CCC, UKCA

**REACH:** REACH compliant

RoHS:

RoHS compliant

#### **OTHER**

**Short Description:** Switching element - Not recommended for new design, Slow-make switching

element, 500 V @ 10 A, Gold, 1 NC / 1 FS, Screw terminal

Product attributes: For ring cable shoe

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

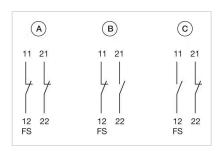
Operating temperature: Other temperatures on request

Special requirements: Special requirements for positive-opening auxiliary current switches

Positive opening travel

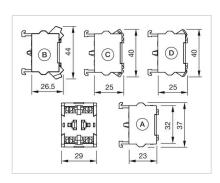
Emerge Emerge Minimum force which i Max. travel Emerge

Wiring diagrams:



A = mounted, not actuated B = mounted, actuated C = not mounted, not actuated

**Dimension drawings:** 



A = Screw terminal

B = Push-in terminal (PIT)

C = Plug-in terminal 6.3 mm x 0.8 mmD = Double plug-in terminal 6.3 mm x 0.8

mm