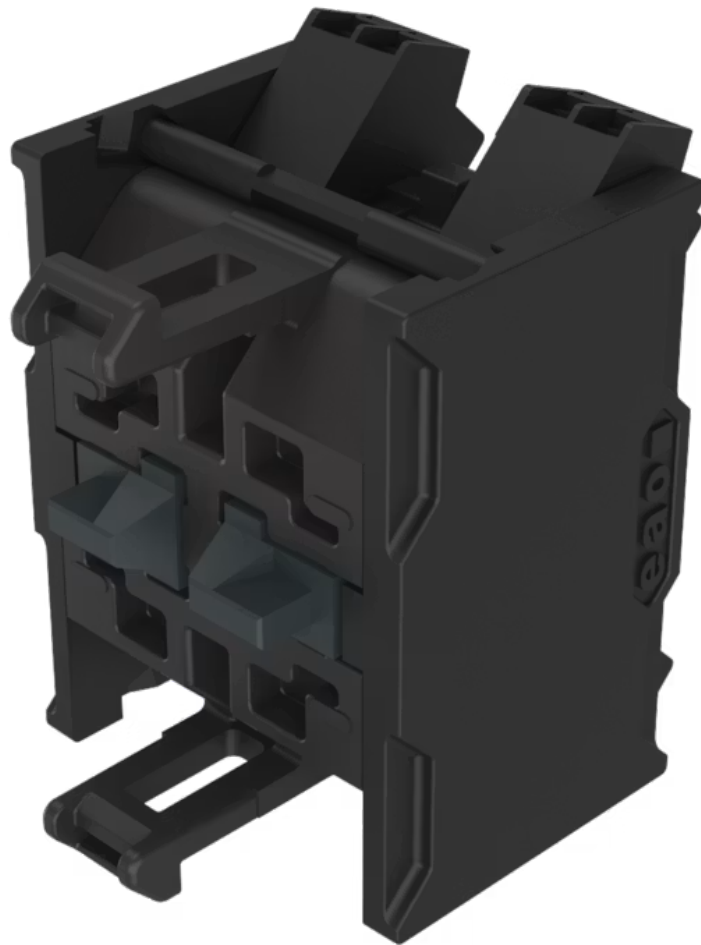


## Switching element - New Version

704.918.4-1

Distribution by  
Newark



<https://newark.eao.com/component/704.918.4-1/...>

Your product:

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## 704.918.4-1 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                                                                                  |                   |       |
| Contacts:                                | 2 NC                                                                                               |                   |       |
| Forward voltage:                         |                                                                                                    |                   |       |
| Rated impulse withstand voltage Uimp:    | 4 kV                                                                                               |                   |       |
| Rated insulation voltage Ui:             | 500 V                                                                                              |                   |       |
| Recommended minimum operational data:    | Gold-silver contacts                                                                               |                   |       |
|                                          | Voltage                                                                                            | 24 VDC            |       |
|                                          | Current                                                                                            | 5 mA              |       |
|                                          | Hard silver contacts                                                                               |                   |       |
|                                          | Voltage                                                                                            | 24 VDC            |       |
|                                          | Current                                                                                            | 50 mA             |       |
| Switching rating:                        | 250 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 Ith:                     | Max. current as per EN IEC 60947-5-1 6 A                                                           |                   |       |

## MECHANICAL CHARACTERISTICS

|                            |                                                                                                                                                                                                                                                                                     |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Terminal:</b>           | Push-in terminal                                                                                                                                                                                                                                                                    |
| <b>Contact material:</b>   | Silver                                                                                                                                                                                                                                                                              |
| <b>Switching system:</b>   | Slow-make switching element                                                                                                                                                                                                                                                         |
| <b>Switching system:</b>   | 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. |
| <b>Operating force:</b>    | 1 Normally closed approx. 2 N, 1 Normally open approx. 3 N                                                                                                                                                                                                                          |
| <b>Wire cross section:</b> | Wire cross-section 0.2 ... 1.0 mm <sup>2</sup> / AWG 24 to AWG 18                                                                                                                                                                                                                   |

Skinning wire 8 mm  
Max. number of wires: 2  
stranded cables 0.2 ... 0.75 mm<sup>2</sup>/ AWG 24 bis AWG 18  
use stranded wires only with wire end ferrules of 8 mm length  
Max. number of stranded cables: 2  
Only one polarity is allowed on each side when wiring.

**Weight:** 0.019 kg

## AMBIENT CONDITION

**IP Protection:** IP20

**Operating temperature:** – 40 °C ... + 55 °C

**Storage temperature:** – 40 °C ... + 85 °C

**Shock resistance:** (single impacts, semi-sinusoidal) 300 m/s<sup>2</sup>, pulse width 18 ms, as per DIN EN 60068-2-27

**Vibration resistance:** (sinusförmig) 100 m/s<sup>2</sup> 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

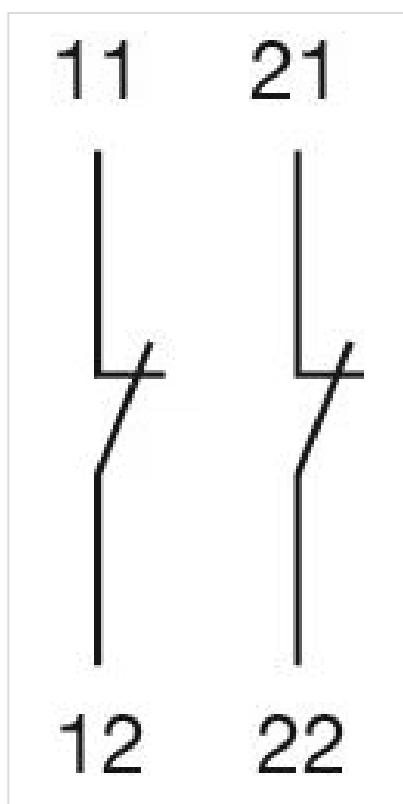
## OTHER

**Short Description:** Switching element - New Version, Slow-make switching element, 250 V AC @ 6 A, Silver, 2 NC, Push-in 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 Emerge  
Minimum force Emerge  
Max. travel which i  
Emerge

**Wiring diagrams:**



Dimension drawings:

