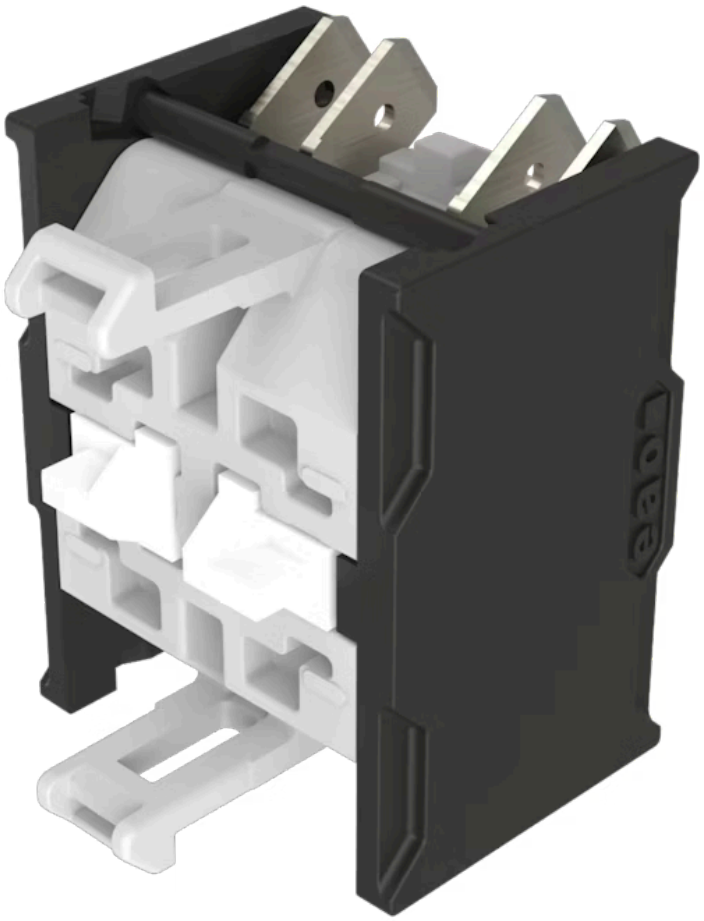
Your Expert Partner for **Human Machine Interfaces**

Switching element - New Version

704.901.3/D-1



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Your product:



704.901.3/D-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	2,5 A	
60 V	0,8 A	
110 V	0,6 A	
120 V		4,5 A
230 V	0,2 A	4,5 A
400 V	0,15 A	4,0 A
500 V	0,7 A	2,5 A

as per UL 60947-5-1

voltage	power
24 VDC	2,5 A, Pilot duty
60 VDC	0,8 A, Pilot duty
120 VDC	0,6 A, Pilot duty
240 VDC	0,2 A, Pilot duty
415 VDC	0,15 A, Pilot duty
480 VDC	0,07A, Pilot duty
120 VAC	4,5 A, Pilot duty
240 VAC	4,5 A, Pilot duty
415 VAC	4,0 A, Pilot duty
480 VAC	2,5 A, Pilot duty

For voltages greater than Ue = 400 V, the grid dimensions must not be less than 35 mm x 50 mm.

Contacts: 2 NO

Rated impulse withstand voltage Uimp: 4 kV

Rated insulation voltage Ui: 500 V

Recommended minimum operational data:

Gold-silver contacts			
Voltage	5 VDC	24 VDC	110 VDC
Current	15 mA	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 Ith:	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:	Snap-action switching element
Switching system:	The double-break, snap-action switching element is equipped with one or two independent contact systems, acting as normally open or normally closed contact. The snap-action switching element is fitted with self-cleaning contacts.
Operating force:	1 Normally closed approx. 1.9 N, 1 Normally open approx. 2 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:	0.025 kg

AMBIENT CONDITION

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

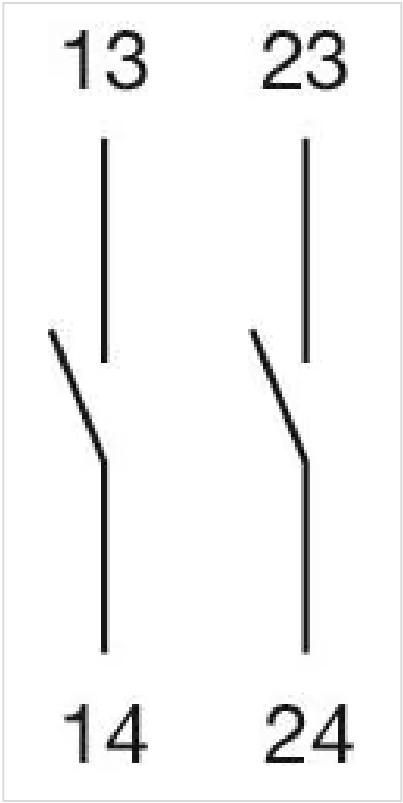
Approbations:	CB (IEC 60947-5-1), cULus, DNV, VDE
Conformities:	CE, CCC, UKCA
REACH:	REACH compliant
RoHS:	RoHS compliant

OTHER

Short Description:	Switching element - New Version, Snap-action switching element, 500 V AC @ 6 A, Gold, 2 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.

Wiring diagrams:



Dimension drawings:

