

# Switching element - New Version

704.917.4-1

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## 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		
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

Terminal:	Push-in 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
Wire cross section:	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:	0.027 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, Gold, 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

Minimum force

Max. travel

Emerg

Emerg

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Emerg

**Wiring diagrams:**

**Dimension drawings:**