

Technical characteristics

▶ GENERAL

Characteristics	Data	Standards
▶ Storage temperature	- 40 °C to + 70 °C	
▶ Operating temperature	- 25 °C to + 70 °C	
▶ Climatic resistance	Constant humid heat Cyclic damp heat Resistance to sea air	IEC 60068-2-3 IEC 60068-2-30 IEC 60068-2-52
▶ Degree of protection	IP 66 for standard heads IP 67 for shrouded heads IP 66 for equipped control stations IP 20 at the rear of the panel for contact blocks and one piece pilot lights Type 1, 2, 3, 3R, 3S, 4, 4X, 12, and 13 for heads and control stations	IEC 60529 NEMA standard
▶ Protection against mechanical impacts	IK 05 illuminated and non illuminated heads IK 07 empty control station	IEC 62262
▶ Electrical insulation	Class II - heads and control station	IEC 60947-5-1
▶ Terminal marking		IEC 60947-1
▶ Tightening torques	Locking ring: recommended 3 N.m terminals: max. 1.2 N.m	
▶ Approvals	UL United states and Canada BV Bureau Véritas Certification OC/CB	UL 508, CSA 22.2 Marine rules IEC 60947-5-1 IEC 60947-5-5 IEC 60947-5-4
▶ Vibrations	withstand vibration Fc test: 2 to 25 Hz, 1.6 mm; 25-100 Hz, 4 g	IEC 60068-2-6

Technical characteristics

▶ CONTACT BLOCKS

Screw and plug-in connection characteristics	Data	Standards	
▶ Rated insulation voltage	690 V AC 600 V AC	IEC/EN 60947-1 UL 508	
▶ NC contacts	Positive opening	IEC/EN 60947-5-1	
▶ Rated impulse voltage U _{imp} Pollution degree	6kV 3		
▶ Conventional thermal current in free air conditions	AC15: 10 A DC13: 2,5 A	IEC 60947-5-1	
▶ Electrical ratings	<p>Alternating current AC15 - A 600 U_e = 120 V, I_e = 6 A U_e = 240 V, I_e = 3 A U_e = 380 V, I_e = 1,9 A U_e = 480 V, I_e = 1,5 A U_e = 500 V, I_e = 1,4 A U_e = 600 V, I_e = 1,2 A</p> <p>Minimum operating current - standard blocks U_e = 24 V DC and I_e = 5 mA Failure rate < 10⁻⁸</p>	<p>Direct current DC13 - Q 600 U_e = 125 V, I_e = 0,55 A U_e = 250 V, I_e = 0,27 A U_e = 400 V, I_e = 0,15 A U_e = 500 V, I_e = 0,13 A U_e = 600 V, I_e = 0,1 A</p> <p>- golden contacts U_e = 5 V DC and I_e = 1 mA Failure rate < 10⁻⁸</p>	IEC 60947-5-1
▶ Electrical operating life	<p>1 million cycles for: - AC15 - B 300 U_e = 120 V, I_e = 3 A U_e = 240 V, I_e = 1,5 A</p> <p>- DC13 - R 300 U_e = 125 V, I_e = 0,22 A U_e = 250 V, I_e = 0,1 A</p>		
▶ Applicable wire sizes	Rigid or flexible wire without ferrule: 0,5 mm ² to 2 x 2,5 mm ² Rigid or flexible wire with ferrule: 0,5 mm ² to 2 x 1,5 mm ²		
Faston connection	Data	Standards	
▶ Rated insulation voltage	320 V AC 300 V AC	IEC/EN60947-1 UL 508	
▶ NC contacts	Positive opening	IEC/EN 60947-5-1	
▶ Rated impulse withstanding voltage U _{imp} Pollution degree	6 kV 3		
▶ Conventional thermal current in free air conditions	AC 15: 10 A DC 13: 2,5 A	IEC 60947-5-1	
▶ Electrical ratings	<p>Alternating current AC15 - A 300 U_e = 120 V, I_e = 6 A U_e = 240 V, I_e = 3 A</p> <p>Minimum current of use U_e = 24 V DC and I_e = 5 mA Failure rate < 10⁻⁸</p>	<p>Direct current DC13 - Q 300 U_e = 125 V, I_e = 0,55 A U_e = 250 V, I_e = 0,27 A</p> <p>- DC13 - R 300 U_e = 125 V, I_e = 0,22 A U_e = 250 V, I_e = 0,1 A</p>	IEC 60947-5-1
▶ Electrical operating life	<p>1 million cycles for: - AC15 - B 300 U_e = 120 V, I_e = 3 A U_e = 240 V, I_e = 1,5 A</p> <p>- DC13 - R 300 U_e = 125 V, I_e = 0,22 A U_e = 250 V, I_e = 0,1 A</p>		
▶ Faston size	6,35 mm or 2 x 2,8 mm		