



Latch & manual reset

Technical data

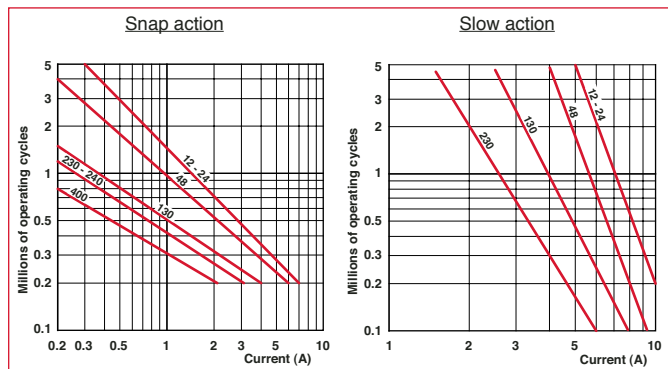
General Data

Standards	IEC 60947-1, IEC 60947-5-1, EN 60947-1, EN 60947-5-1, UL 508, CSA C22-2 No.14	
Certifications - Approvals	UL and CSA	
Air temperature near the device	°C	-25 ... +70
– during operation	°C	-30 ... +80
– for storage		
Climatic withstand	According to IEC 68-2-3 and salty mist according to IEC 68-2-11	
Mounting positions	All positions are authorised	
Shock withstand (according to IEC 68-2-27 and EN 60068-2-27)	g	50 g (1/2 sinusoidal shock for 11 ms) no change in contact position
Resistance to vibrations (acc. to IEC 68-2-6 and EN 60068-2-6)	g	25 g (10 ... 500 Hz) no change in position of contacts > 100 μs
Protection against electrical shocks (acc. to IEC 536)		Class II
Degree of protection (according to IEC 529 et EN 60529)		IP65
Consistency		0.1 mm upon closing points
Minimum actuation speed	m/s	Slow action contacts 0.060 / Snap action contacts 0.001

Electrical Data

Rated insulation voltage U_i	V	690 (degree of pollution 3) A600, Q600	
– according to IEC 60947-1 and EN 60947-1			
– according to UL 508, CSA C22-2 No.14			
Rated impulse withstand voltage U_{imp} (according to IEC 60947-1 and EN 60947-1)	kV	6	
Conventional free air thermal current I_{th} (according to IEC 60947-5-1 and EN 60947-5-1) ($\varnothing \leq 40$ °C)	A	10	
Short-circuit protection gG type fuses	A	10	
Rated operational current			
I_o / AC-15 – acc. to IEC 60947-5-1			
24 V - 50/60 Hz	A	10	
130 V - 50/60 Hz	A	5.5	
230 V - 50/60 Hz	A	3.1	
240 V - 50/60 Hz	A	3	
400 V - 50/60 Hz	A	1.8	
– according to UL 508, CSA C22 No.14		A600	
I_o / DC-13 – according to IEC 60947-5-1			
24 V - d.c.	A	2.8	
110 V - d.c.	A	0.6	
250 V - d.c.	A	0.27	
– according to UL 508, CSA C22 No.14	Q600		
Positivity		Contacts with positive opening operation as per IEC 60947-5-1 chapter 3 and EN 60947-5-1	
Resistance between contacts	mΩ	25	
Mechanical durability	Millions of operations	> 1 million of operating cycles	
Max. switching frequency	Cycles/h	600	
Electrical durability (according to IEC 60947-5-1 appendice C)		Utilization categories AC-15 and DC-13 (see curves and values below)	
– Max. switching frequency	Cycles/h	3600	
– Load factor		0.5	

Electrical durability for AC-15 utilization category



Electrical durability for DC-13 utilization category

	Snap action	Slow action	
Power breaking for a durability of 5 million operating cycles			
Voltage	24 V	9.5 W	12 W
Voltage	48 V	6.8 W	9 W
Voltage	110 V	3.6 W	6 W