

## Technical data IP 65, UL Type 4

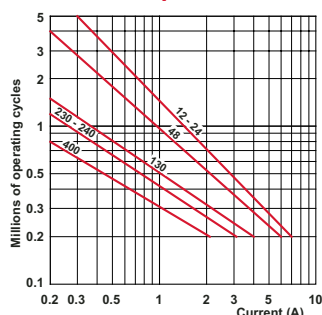
### General technical data

Standards	Devices conform with international IEC 947-5-1 and European EN 60 947-5-1 standards	
Certifications - Approvals	UL & CSA	
Air temperature near the device (IEC) – during operation – for storage	°C °C	– 25 ... + 70 – 30 ... + 80
Climatic withstand	According to IEC 68-2-3 and salty mist according to IEC 68-2-11	
Mounting positions	All positions are authorized	
Shock withstand (according to IEC 68-2-27 and EN 60 068-2-27)	50g <sup>①</sup> (1/2 sinusoidal shock for 11 ms) no change in contact position	
Resistance to vibrations (acc. to IEC 68-2-6 and EN 60 068-2-6)	25g (10 – 500 Hz) no change in position of contacts greater than 100 μs	
Protection against electrical shocks (acc. to IEC 536)	Class I	
Degree of protection	UL Type 4X & IP 66	
Consistency (measured over 1 million operations)	0.05 mm (upon closing point)	
Minimum actuation speed	m/s	Slow action contacts 0.060 / Snap action contacts 0.001

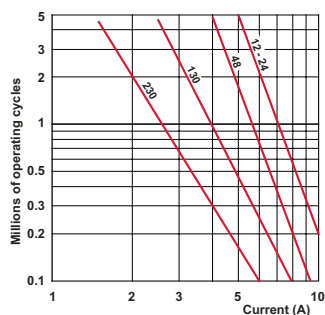
### Electrical Data

<b>9</b>	<b>Rated insulation voltage <math>U_i</math></b> - according to IEC 947-1 and EN 60-947-1 - according to UL 508 and CSA C22-2 n° 14		500 V (degree of pollution 3) A 600, Q 600
	Rated impulse withstand voltage $U_{imp}$ (according to IEC 947-1 and EN 60 947-1)	kV	6
Conventional free air thermal current $I_{th}$ (according to IEC 947-5-1) $q \leq 40$ °C	A		10
Short-circuit protection $U_g \leq 500$ V a.c. - gG (gl) type fuses	A		10
Rated operational current $I_o$ / AC-15 (according to IEC 947-5-1)	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
$I_o$ / DC-13 (according to IEC 947-5-1)	24 V - d.c.	A	2.8
	110 V - d.c.	A	0.6
	250 V - d.c.	A	0.27
Switching frequency	Cycles/h		3600
Load factor			0.5
Resistance between contacts	mW		25
Connecting terminals			M3.5 (+, -) pozidriv 2 screw with cable clamp
Terminal for protective conductor			M3.5 (+, -) pozidriv 2 screw with cable clamp
Connecting capacity	1 or 2 x mm <sup>2</sup>		0.5 ... 2.5
Terminal marking			According to EN 50 013
Mechanical durability	Millions of operations	30 25 10	40 60 M { 11–13; 21–23; 31–33 41–44; 51–54; 61–72 91–93
Electrical durability (according to IEC 947-5-1)			Utilization categories AC-15 and DC-13 (Load factor of 0.5 according to curves below)

### AC-15 — Snap action



### AC-15 — Slow action



DC-13		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

<sup>①</sup> except for LS30/31/35 (P42): 25g