

Technical data

IP 65, UL Type 4



General technical data

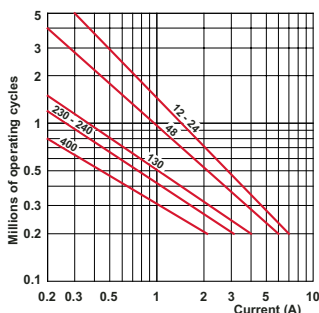
Standards	Devices conform with international IEC 947-5-1 and European EN 60 947-5-1 standards	
Certifications - Approvals	UL & CSA	
Air temperature near the device (IEC)	°C	- 25 ... + 70
- during operation		- 30 ... + 80
- for storage	°C	
Climatic withstand	According to IEC 68-2-3 and salty mist according 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 [Ⓢ] (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 II	
Degree of protection	UL Type 4 & IP 65	
Consistency (measured over 1 million operations)	0.1 mm (upon closing point)	
Minimum actuation speed	m/s	Slow action contacts 0.060 / Snap action contacts 0.001

Electrical Data

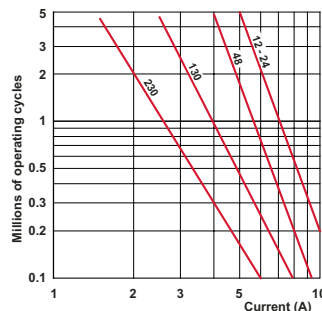
Rated insulation voltage U_i - according to IEC 947-1 and EN 60-947-1 - according to UL 508 and CSA C22-2 n° 14	500 V (degree of pollution 3) A 600, Q 600												
Rated impulse withstand voltage U _{imp} (according to IEC 947-1 and EN 60 947-1)	kV	6											
Conventional free air thermal current I _{th} (according to IEC 947-5-1) q ≤ 40 °C	A	10											
Short-circuit protection U _o ≤ 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 130 V - 50/60 Hz A 230 V - 50/60 Hz A 240 V - 50/60 Hz A 400 V - 50/60 Hz A	10 5.5 3.1 3 1.8											
I _o / DC-13 (according to IEC 947-5-1)	24 V - d.c. A 110 V - d.c. A 250 V - d.c. A	2.8 0.6 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 ²	0.5 ... 2.5											
Terminal marking	According to EN 50 013												
Mechanical durability	Millions of operations	<table border="0"> <tr> <td>15</td> <td rowspan="5">} LS</td> <td rowspan="5">} 30</td> <td rowspan="5">} P</td> <td>10 – 12; 30 – 34</td> </tr> <tr> <td>10</td> <td>13; 41 – 44; 51 – 54; 61 – 72</td> </tr> <tr> <td>5</td> <td>91 – 93</td> </tr> <tr> <td>> 1</td> <td>15; 16</td> </tr> </table>	15	} LS	} 30	} P	10 – 12; 30 – 34	10	13; 41 – 44; 51 – 54; 61 – 72	5	91 – 93	> 1	15; 16
15	} LS	} 30	} P				10 – 12; 30 – 34						
10							13; 41 – 44; 51 – 54; 61 – 72						
5							91 – 93						
> 1							15; 16						
Electrical durability (according to IEC 947-5-1)				Utilization categories AC-15 and DC-13 (Load factor of 0.5 according to curves below)									

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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	

Ⓢ except for LS30/31/35 (P42): 25g