

Specifications

Certified Standard Ratings

- UL, cUL (File No. E41515)
6 A at 220 VAC, 10 A at 110 VAC
- TÜV (EN60947-5-1) (Low Voltage Directive)
3 A at 220 VAC
- CCC (GB14048.5)
3 A at 240 VAC, 1.5 A at 24 VDC

Ratings

Contacts (Standard Load)

Rated carry current (A)	Rated voltage (V)	Rated current (A)			
		AC15 (Inductive load)	AC12 (Resistive load)	DC13 (Inductive load)	DC12 (Resistive load)
10	24 VAC	10	10	---	---
	110 VAC	5	10		
	220 VAC	3	6		
	380 VAC	2	3		
	440 VAC	1	2		
	24 VDC	---	---	1.5	10
	110 VDC			0.5	2
	220 VDC			0.2	0.6
	380 VDC			0.1	0.2

- Note:** 1. Rated current values are determined according to the testing conditions. The above ratings were obtained by conducting tests under the following conditions.
- (1) Ambient temperature: 20°±2°C
 - (2) Ambient humidity: 65±5%
 - (3) Operating frequency: 20 operations/minute
2. Minimum applicable load: 10 mA at 5 VDC

Characteristics

Item	Type	Turn-reset		Pull-reset
		Non-lighted model	Lighted model	Non-lighted model
Allowable operating frequency	Mechanical	30 operations/minute (One operation consists of set and reset operations.)		
	Electrical	30 operations/minute (One operation consists of set and reset operations.)		
Insulation resistance		100 MΩ min. (at 500 VDC)		
Contact resistance		100 mΩ max. (initial value)		
Dielectric strength	Between terminals of same polarity	2,500 VAC, 50/60 Hz for 1 min.		
	Between each terminal and ground	2,500 VAC, 50/60 Hz for 1 min.		
Vibration resistance		10 to 55 Hz, 1.5-mm double amplitude (contact separation within 1 ms)		
Shock resistance	Destruction	1000 m/s ²		
	Malfunction	250 m/s ² max. (contact separation within 1 ms)		
Durability	Mechanical	300,000 operations min. (One operation consists of set and reset operations.)		
	Electrical	300,000 operations min. (One operation consists of set and reset operations.)		
Ambient operating temperature *1		-20 to +70°C	-20 to +55°C	-20 to +70°C
Ambient operating humidity		35 to 85% RH		
Ambient storage temperature		-40 to +70°C		
Degree of protection		IP65 oil-resistant models *2 *3	IP65 *2	IP65 oil-resistant models *2 *3
Electric shock protection class		Class II		
PTI (tracking characteristic)		175		
Degree of contamination		3 (EN60947-5-1)		
Minimum direct opening stroke		11 mm		
Minimum direct opening force		45 N		
Conditional short-circuit current		100 A (EN 60947-5-1)		
Weight (for a 40-dia. head 1NC/1NO Operation Unit)		Approx. 65 g	Approx. 80 g	Approx. 100 g

*1. With no icing or condensation.

*2. The degree of protection from the front of the panel.

*3. The degree of protection is IP65 even with an integrated control box, but the system is not oil resistant.

Certified Standards

Certification body	Standards	File No.
UL *1	UL508, C22.2 No.14	E41515
TÜV SÜD	EN60947-5-1 (Certified direct opening), EN60947-5-5	Consult your OMRON representative for details.
CQC (CCC)	GB14048.5	2003010303070635
KOSHA *2	EN60947-5-1	Consult your OMRON representative for details.

Note: Only models with NC contacts have a direct opening mechanism.
*1. UL-certification for CSA C22.2 No. 14 has been obtained.

Certification has been obtained for individual Switch Blocks and Lighting Units.

*2. Some models have been certified.

LED Lamp

Rated voltage	Operating voltage	Current value
6 VAC/VDC	6 VAC/VDC ± 5%	Approx. 8 mA
12 VAC/VDC	12 VAC/VDC ± 5%	
24 VAC/VDC	24 VAC/VDC ± 5%	

Voltage-reduction lighting

Rated voltage	Operating voltage	Rated current	Applicable lamp (BA9S/Base: 13)
110 VAC	100 VAC (95 to 115 V)	Approx. 8 mA	LED lamp A22-24A□
220 VAC	200 VAC (190 to 230 V)		