

A22NE-P

Specifications

Certified Standard Ratings

- UL508 (File No. E76675), CSA C22.2 No.14
6 A at 240 VAC, 10 A at 120 VAC
- TÜV (EN60947-5-1) - Certified direct opening -
(EN60947-5-5)
AC-15 3 A at 240 VAC
DC-13 4 A at 24 VDC
- CCC (GB14048.5)
AC-15 3 A at 240 VAC
DC-13 4 A at 24 VDC

Applicable Standards

UL1059, UL486E (Push-in Plus Terminal Block Types)

Note: Use a 10 A fuse type gI or gG that conforms to IEC60269 as a short-circuit protection device. This fuse is not provided in the main unit.

Ratings

Contacts (Standard Load)

Rated insulation voltage (V)	Rated carry current (A)	Rated voltage (V)	Rated current (A)			
			AC15 (Inductive load)	AC12 (Resistive load)	DC13 (Inductive load)	DC12 (Resistive load)
600	10	24 VAC	10	10	---	---
		120 VAC	6	10		
		240 VAC	3	6		
		380 VAC	1.9	2		
		440 VAC	1.6	2		
		24 VDC	---	---	4	8
		120 VDC			1.1	2.2
		240 VDC			0.55	1.1

- Note: 1.** 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 (Resistive load)
 The operating range may vary depending on the usage conditions and type of load.

Certified Standards

Certification body	Standards	File No.
UL *	UL508, C22.2 No.14	E76675
TÜV SÜD	EN60947-5-1 (Certified direct opening), EN60947-5-5	Consult your OMRON representative for details.
CQC (CCC)	GB14048.5	2017010305959182

Note: Only models with NC contacts have a direct opening mechanism.

* UL-certification for CSA C22.2 No. 14 has been obtained.

LED Lamp

Rated voltage	Operating voltage	Current value
6 VAC/VDC	6 VAC/VDC ± 10%	Approx. 11 mA
12 VAC/VDC	12 VAC/VDC ± 10%	Approx. 12 mA
24 VAC/VDC	24 VAC/VDC ± 10%	Approx. 12 mA
100 VAC	100 VAC ± 10%	Approx. 12 mA
110 VAC	110 VAC ± 10%	
120 VAC	100 VAC to 130 VAC	
200 VAC	200 VAC ± 10%	Approx. 12 mA
220 VAC	220 VAC ± 10%	
230 VAC	230 VAC ± 10%	
240 VAC	220 VAC to 250 VAC	

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A22E

Common Accessories and Tools

Common Note

Characteristics

Operation		Turn-reset		Pull-reset	
		Non-lighted model	Lighted Model	Non-lighted model	
		A22NE-□-P□□□-N	A22NE-M-P□□□-□	A22NE-MP-P□□□-N	A22NE-MP-P□□□-N-69K
Allowable operating frequency	Mechanical	30 operations/minute or less (One operation consists of set and reset operations.)			
	Electrical	30 operations/minute or less (One operation consists of set and reset operations.)			
Insulation resistance *1		100 MΩ min. (at 500 VDC)			
Contact resistance		100 mΩ max. (initial value)			
Dielectric strength	Between terminals of same polarity*1	2,500 VAC, 50/60 Hz 1 minute (initial value)			
	Between each terminal and ground	2,500 VAC, 50/60 Hz 1 minute (initial value)			
Vibration resistance	Malfunction	10 to 55 Hz, 1.5 mm double amplitude (contact separation within 1 ms)			
Shock resistance	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.)		100,000 operations min. (One operation consists of set and reset operations.)	
	Electrical	300,000 operations min. (One operation consists of set and reset operations.)		100,000 operations min. (One operation consists of set and reset operations.)	
Ambient operating temperature *2		-20 to +70°C	-20 to +55°C	-20 to +70°C	
Ambient operating humidity		35 to 85% RH			
Ambient storage temperature *2		-40 to +70°C			
Degree of protection*3		IP65 oil-resistant models *4	IP65	IP65 oil-resistant models *4	IP69K
Electric shock protection class		Class II			
PTI (tracking characteristic)		175			
Degree of contamination		3 (EN 60947-5-1)			
Minimum direct opening stroke		11 mm			
Minimum direct opening force		45 N			
Conditional short-circuit current		100 A (EN 60947-5-1)			
Wight (for a 40-dia. head 1NC/1NO Operation Unit)		Approx. 55g	Approx. 60g	Approx. 85 g	Approx. 115 g

*1. State when an LED is not added between terminals of the same polarity on a lighting unit. Does not apply to lighted-type 100 to 200 V lighting units.

*2. With no icing or condensation.

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

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

Operating Characteristics

Item	Turn-reset		Pull-reset	
	Lighted / non-lighted models		Non-lighted model	Non-lighted model (Models with IP69K)
Total travel force (TTF)	45 N max.		60 N max.	70 N max.
Return force (RF)	0.25N·m * max.		60 N max.	70 N max.
Total travel (TT)	10 ±1 mm		5.5 ±1 mm	5.5 ±1 mm

* Rotation torque value.

Terminal Arrangement (BOTTOM VIEW)

