



1. Applicable standard
 - JIS C8201-5-1
 - IEC60947-5-1
 - EN60947-5-1
 - GB/T14048.5 (CCC Certified)
 - UL508 (UL Listing)
 - CSA C22.2 NO.14 (c-UL Listing)
2. Operating conditions
 - (1) Operating Temperature -25 to +60°C (no freezing)
 - (2) Operating Humidity 45 to 85%RH (no condensation)
 - (3) Storage temperature -40 to +80°C (no freezing)
 - (4) Pollution Degree 3 (IEC60947-5-1)

3. Ratings
 - (1) Rated insulation voltage 300V
 - (2) Rated thermal current 10A
 - (3) Rated operating voltage and rated operating current

Rated operating voltage			24V	120V	240V	
Rated operating current	Specifications 1	AC 50/60Hz	Resistive load (AC-12)	10A	10A	6A
			Inductive load (AC-15)	10A	6A	3A
		DC	Resistive load (DC-12)	8A	2.2A	1.1A
			Inductive load (DC-15)	4A	1.1A	0.55A
	Specifications 2	AC 50/60Hz	Resistive load (AC-12)	5A	5A	3A
			Inductive load (AC-15)	5A	3A	1.5A
		DC	Resistive load (DC-12)	4A	1.1A	0.55A
			Inductive load (DC-15)	2A	0.55A	0.27A

Note 1) AC inductive load : PF=0.6 to 0.7, DC inductive load : L/R=7msec maximum

- (4) Minimum applicable load 3V AC/DC · 5mA (reference value)

4. Constructions
 - (1) Outside view and contact operation See attached sheet
 - (2) Bezel style Round flush
 - (3) Bezel color — (◇) Black (1), Metallic (4)
 - (4) Key removable position — (△) Maintained (blank), Spring return from right (1), Spring return from left (2), Spring return two-way (3)
 - (5) Operator position 45° 3-position
 - (6) Degree of protection IP66, UL Type4x (panel front), IP20 (terminal)
 - (7) Contact material Silver
 - (8) Contact arrangement — (□□) 1a-1b(11),1a-1b(11N1),1a-1b(11N2),1a-1b(11N3), 1a-1b(11N4),
2a(20),2a(20N1),2b(02),2b(02N1),2a-1b(21),2a-1b(21N1),
1a-2b(12),1a-2b(12N1),3a(30),3b(03),2a-2b(22),4a(40),2a-2b(22N2)

(9) Operation style	Key
(1 0) Minimum Operator Torque for Direct Opening Action	0.3 N·m
(1 1) Key removable position code— (◎)	Key removable in all positions (A), Key removable at left / center (B) Key removable at center / right (C) Key removable at center (D), Key removable at right / left (E), Key removable at left (G), Key removable at right (H)
(1 2) Key No. — (※)	Standard 0H (blank), Reversible Key (1H to 2H), Non-reversible Key (3H to 6H)
(1 3) Terminal style	Screw terminal (M3.5 Slotted -Phillips screw) Note) Ring terminal cannot be used.
(1 4) Applicable wire	2 mm ² maximum (solid wire ϕ 1.6 maximum), up to 2 wires
(1 5) Panel thickness	0.8 to 3.2 mm
(1 6) Panel cut-out	ϕ 22.3 ^{+0.4} mm
(1 7) Minimum mounting pitch	Vertical: 50mm, Horizontal: 30mm
(1 8) Weight (Approx.)	61g (3 contacts), 68g (4 contacts),
5. Characteristics	
(1) Contact resistance	50m Ω maximum (initial value)
(2) Insulation resistance	100M Ω minimum (500V DC megger)
(3) Overvoltage category	II
(4) Impulse withstand voltage	2.5kV
(5) Dielectric strength	
(a) Between live part and ground	2000V AC, 1minute
(b) Between terminals of different poles	2000V AC, 1minute
(c) Between terminals of the same poles	2000V AC, 1minute
(d) Between live part and metal ground	2000V AC, 1minute
(6) Vibration resistance	
(a) Operating extremes	Frequency 5 to 55Hz, Amplitude 0.5mm
(b) Damage limits	Frequency 30Hz, Amplitude 1.5mm
(7) Shock resistance	
(a) Operating extremes	100 m/s ²
(b) Damage limits	1000 m/s ²
(8) Mounting nut torque tightening	1.2 N·m
(9) Terminal recommended tightening torque	1.0 to 1.3 N·m
(1 0) Electrical Shock Protection	Class II (IEC 61140)
(1 1) Short-circuit Protection	250V/10A fuse (Type aM IEC 60269-1, IEC 602069-2)
6. Life	
(1) Mechanical life	250,000 operations minimum (single contact block) 100,000 operations minimum (double contact block)
(2) Electrical life (rated load)	
<Specifications 1>	50,000 operations minimum (single contact block) Switching frequency : 1,800 operations/ hour 25,000 operations minimum (double contact block) Switching frequency : 1,800 operations/ hour
<Specifications 2>	100,000 operations minimum (single contact block) Switching frequency : 1,800 operations/ hour 50,000 operations minimum (double contact block) Switching frequency : 1,800 operations/ hour