

SPECIFICATIONS

No. ISA3515C
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 Written by F.Takai

HW (ϕ 22) SERIES SELECTOR SWITCH

TYPE HW1K-3 \odot \triangle \square \square -*
 Operation type \square \square \square \square Key No.
 Key retained position \square \square \square \square Contact arrangement

1. Applicable standard

JIS C 8201-5-1
 IEC60947-5-1
 EN60947-5-1 (TUV Approval)
 UL508 (UL Listing)
 CSA C22.2 (CSA Certified)
 GB/T14048.5 (CCC Certified)

2. Operating conditions

- (1) Ambient temperature -25 to +60°C (no freezing)
- (2) Relative humidity 45 to 85%RH (no condensation)
- (3) Storage temperature -40 to +80°C (no freezing)

3. Ratings

- (1) Rated insulation voltage 600V
- (2) Thermal current 10A
- (3) Rated operating voltage and rated operating current

Rated operating voltage			24V	48V	50V	110V	220V	440V
Rated operating current	A	Resistive load(AC-12)	10A	—	10A	10A	6A	2A
	C	Inductive load(AC-15)	10A	—	7A	5A	3A	1A
	D	Resistive load(DC-12)	10A	5A	—	2.2A	1.1A	—
	C	Inductive load(DC-15)	5A	2A	—	1.1A	0.6A	—

Note)The operating current is classified according to the JIS C 8201-5-1 making and breaking current capacities.

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

4. Constructions

- (1) Outside view See attached sheet
- (2) Operation type — (\odot) Maintained (Blank), Spring return from right (1), Spring return from right (2), 2-way spring return(3)
- (3) Degree of protection IP65
- (4) No. of position , angle 3, 45°
- (5) Contact arrangement-(\square \square) 2a (20), 2b (02), 1a-1b (11), 1a-1b (11N1), 2a-2b (22N1), 2a-2b(22N2), 4a (40), 4b (04),
- (6) Operator style Key

- (7) Key removable position code -(△) Key removable in all position (A) ,
 Key removable in center and right position (B),
 Key removable in center and left position (C),
 Key removable in center position (D),
 Key removable in left and right position (E),
 Key removable in left position (G),
 Key removable in right position (H)
- (8) Key No.-(*) Standard (Blank),(1H),(2H),(3H)
- (9) Terminal style M3.5 terminal screw
- (10) Applicable wire / Recommended tightening torque

Applicable wire		Maximum number of installed	Recommended tightening torque (N·m)
Solid wire	φ 0.5~1.6mm (AWG14~22)	2	1.0~1.3
	φ 1.7~2.0mm (AWG12)	1	1.2~1.3
Strand wire	0.3~2.0mm ² (AWG14~22)	2	1.0~1.3
	2.1~3.5 mm ² (AWG12)	1	1.2~1.3

- (11) Panel thickness 0.8 to 6mm
- (12) Panel cut-out φ 22.3 ^{+0.4}₀mm

5. Characteristics

- (1) Insulation resistance 100MΩ minimum (measured with a 500v DC megger)
- (2) Dielectric strength 2,500V AC, 1minute
- (3) Contact resistance 50mΩmax.(initial value)
- (4) Vibration resistance
- (a) Operating extremes Frequency 5 to 55Hz, Amplitude 0.5mm
- (b) Damage limits Frequency 30Hz, Amplitude 1.5mm
- (5) Shock resistance
- (a) Operating extremes 100 m/s²
- (b) Damage limits 1,000 m/s²

6. Life

- (1) Mechanical life(without load) 500,000 operation min.
- (2) Electrical life (rated load) 500,000 operation min.
 Operating frequency : 1,200 operations/hour max.
 Duty Rate : 40%

□ CONTACT ARRANGEMENT

