

SPECIFICATION

No. ISA3505C



Date. January 25, 2023

ϕ 22 XW SERIES EMERGENCY STOP
 PUSHBUTTON SWITCH
 TYPE XW1E-TV4□■Q4△R

Approved by M.Fujimoto

Checked by Y.Hanaoka

Written by F.Takai

Contact arrangement  Terminal style 

1. Applicable standard

JIS C 8201-5-1
 IEC60947-5-1, EN60947-5-1 (TUV Approval)
 IEC60947-5-5, EN60947-5-5 (TUV Approval)
 UL508 (UL Recognition)
 UL991
 NFPA79
 CSA C22.2 No.14 (c-UL Recognition)
 GB/T14048.5 (CCC Certified)

2. Operating conditions

- | | |
|-------------------------|-----------------------------|
| (1) Ambient temperature | -25 to +55°C (no freezing) |
| (2) Relative humidity | 45 to 85% (no condensation) |
| (3) Storage temperature | -45 to +80°C (no freezing) |
| (4) Pollution degree | 3 |

3. Contact ratings

- | | |
|------------------------------|-----------------------|
| (1) Rated insulation voltage | 250V (Screw terminal) |
| (2) Thermal current | 5A |
| (3) Rated operating voltage | |

and rated operating current

Main contact (NC contact), Monitor contact (NO contact)

		Rated operating voltage (Ue)				
		30V	125V	250V		
Rated oper- ating current (Ie)	Main contact	A	Resistive load (AC12)	-	5A	3A
		C	Inductive load (AC15)	-	3	1.5A
		D	Resistive load (DC12)	2A	0.4A	0.2A
		C	Inductive load (DC13)	1A	0.22A	0.1A
	Monitor contact	A	Resistive load (AC12)	-	1.2A	0.6A
		C	Inductive load (AC14)	-	0.6A	0.3A
		D	Resistive load (DC12)	2A	0.4A	0.2A
		C	Inductive load (DC13)	1A	0.22A	0.1A

- The operating current is classified according to the JIS C 8201-5-1-1999 making and breaking current capacities

- | | |
|---|---------------|
| (4) Minimum applicable load (reference value) | 5V AC/DC, 1mA |
|---|---------------|
- (Operating area may vary according to the operating conditions and load types.)

4. LED illuminated unit ratings

- | | |
|------------------------------|----------------|
| (1) Rated insulation voltage | 60V |
| (2) Rated voltage | 24V AC/DC |
| (3) Operating voltage | 24V ±10% AC/DC |
| (4) Thermal current | 5mA |

5. Constructions

- | | |
|--------------------------------------|--|
| (1) Outside view | See attached sheet |
| (2) Latching | Push lock (Safety-lock mechanism) |
| (3) Resetting | Pull reset or Turn reset. It is possible either way |
| (4) Degree of protection | IP65/IP67 (IEC60529) |
| (5) Contact arrangement — (□■) | Terminal Protection:IP20(Screw terminal, when using XW9Z-VL2MF) |
| (□: monitor contact ■: main contact) | 3b(03), 1a-2b(12) |
| (6) Button style and color | Mushroom (φ 40 button), Red |
| (7) Terminal style — (△) | M3 screw terminal/IP20type (MF),
M3 screw terminal/with terminal cover type (M) |
| (8) Connectable cable | 0.75 to 1.25mm ² maximum (AWG 18 to 16) |
| (9) Panel thickness | 0.8 to 6mm |
| (10) Panel cut-out | φ 22.3 ^{+0.4} mm |
| (11) Mounting nut torque tightening | 2.0 N·m |

6. Characteristics

- | | |
|--|---|
| (1) Contact resistance | 50m Ω minimum(initial value) |
| (2) Operation force | Push lock: 32N
Pull reset: 21N
Turn reset:0.27N·m |
| (3) Minimum force required for direct opening action | 80N |
| (4) Minimum operator stroke required for direct opening action | 4.0mm |
| (5) Maximum operator stroke | 4.5mm |
| (6) Insulation resistance | 100MΩ maximum (measured with a 500V DC megger) |
| (7) Impulse withstand voltage | 2.5kV |
| (8) Over voltage category | II |
| (9) Vibration resistance | |
| (a) Operating extremes | Frequency 10 to 500Hz, Amplitude 0.35mm Acceleration 50m/s ² |
| (b) Damage limits | Frequency 10 to 500Hz, Amplitude 0.35mm Acceleration 50m/s ² |
| (10) Shock resistance | |
| (a) Operating extremes | 150 m/s ² |
| (b) Damage limits | 1000 m/s ² |
| (11) Short-circuit protective device | 10A, 250V fuse (Type aM IEC60269-1/IEC60269-2) |
| (12) Conditional short-circuit current | 1000A |
| (13) Solder heat resistance | 20W 5sec maximum or 260°C 3sec maximum |
| (14) Weight | Approx.72g |

7. Life

- | | |
|--------------------------------------|---|
| (1) Mechanical life (without load) | 250000 operation minimum
(Operating frequency: 900 operations/hour maximum) |
| (2) Electrical life (rated load) | |
| (a) Rated load | 100000 operation minimum
(Operating frequency: 900 operations/hour maximum) |
| (b) When the load is 24V·100mA AC/DC | 250000 operation minimum
(Operating frequency: 900 operations/hour maximum) |