

# SPECIFICATION

No. ISA3623C

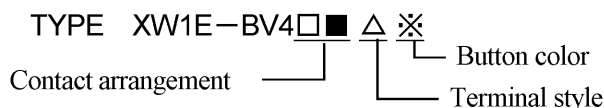
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φ22 XW SERIES EMERGENCY STOP  
PUSHBUTTON SWITCH



## 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) } Solder terminal type
- CSA C22.2 No.14 (c-UL Recognition) } PC board terminal type
- UL508 (UL Listing) } Screw terminal type
- CSA C22.2 No.14 (c-UL Listing) }
- UL991
- NFPA79
- GB/T14048.5 (CCC Certified)

## 2. Operating conditions

- (1) Ambient temperature -25 to +60°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 type),  
300V (Solder terminal type, PC board terminal type)
- (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 operating current (Ie)	Main contact	A Resistive load (AC12)	-	5A(Note 1)	3A
		C Inductive load (AC15)	-	3A(Note 2)	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

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

Note 1) Solder terminal/PC board terminal type : 3A

Note 2) Solder terminal/PC board terminal type : 1.5A

- (4) Minimum applicable load (reference value) 5V AC/DC, 1mA

## 4. 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) Terminal Protection:IP20(Screw terminal,when using XW9Z-VL2MF)
(5) Contact arrangement— (□■) (□: monitor contact ■: main contact)	1NC(01), 2NC(02), 3NC(03), 4NC(04) 1NO-1NC(11), 1NO-2NC(12), 1NO-3NC(13), 2NO-2NC(22) (PC board terminal type is no 2NO-2NC)
(6) Button style	Mushroom ( φ 40 button)
(7) Button color— (※)	Red(R), Bright red(RH)
(8) Terminal style— (△)	Solder terminal (blank), PC board terminal (V) M3 screw terminal/IP20type (MF), M3 screw terminal/with terminal cover type (M)
(9) Applicable wire	
(a) Solder terminal	0.75 to 1.25mm <sup>2</sup> maximum (AWG 18 to 16 maximum)
(b) Solder terminal/PC board terminal	1.25mm <sup>2</sup> maximum (AWG 16 maximum)
(10) Panel thickness	0.8 to 6mm
(11) Panel cut-out	φ 22.3 <sup>+0.4</sup> <sub>0</sub> mm
(12) Mounting nut torque tightening	2.0 N·m
<b>5. Characteristics</b>	
(1) Contact resistance	50m Ω maximum (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	100M Ω minimum(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 <sup>2</sup>
(b) Damage limits	Frequency 10 to 500Hz, Amplitude 0.35mm Acceleration 50m/s <sup>2</sup>
(10) Shock resistance	
(a) Operating extremes	150 m/s <sup>2</sup>
(b) Damage limits	1000 m/s <sup>2</sup>
(11) Short-circuit protective device	10A,250V fuse (Operating class aM according to IEC 60269-1 and IEC 60269-2)
(12) Conditional short-circuit current	1000A
(13) Solder heat resistance	310 to 350°C, 3seconds maximum
(14) Weight	Approx.72g
<b>6. Life</b>	
(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 )