

SPECIFICATIONS

No. ISA4622

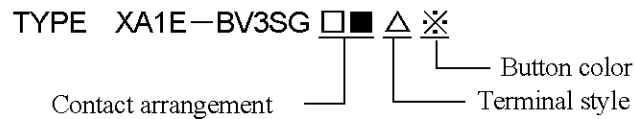
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φ16 XA SERIES EMERGENCY STOP PUSHBUTTON SWITCH



1. Applicable standard

JIS C 8201-5-1
IEC60947-5-1, EN60947-5-1 (TUV Certified)
IEC60947-5-5, EN60947-5-5 (TUV Certified)
ISO13850
UL508 (UL Recognition) , UL991、NFPA79
CSA C22.2 No.14 (c-UL Recognition)
GB/T14048.5 (CCC Certified)

2. Operating conditions

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|---------------------------|--------------------------------|
| (1) Operating Temperature | -25 to +70°C (no freezing) |
| (2) Operating Humidity | 30 to 85% RH (no condensation) |
| (3) Storage Temperature | -45 to +80°C (no freezing) |
| (4) Pollution degree | Front panel: 3, back panel: 2 |

3. Contact ratings

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| (1) Rated insulation voltage | 250V |
| (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)	-	3A	1.5A
		C	Inductive load (AC15)	-	1.5A	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 (AC15)	-	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 C8201-5-1 closing and breaking current capacity.

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| (4) Minimum applicable load (reference value) | 5V AC/DC, 1mA
(May vary depending on the operating conditions and load) |
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4. Constructions

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|--------------------------|---|
| (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 | Front panel: IP65, IP67, IP69K, UL Type 4X, Equivalent to IK06,07
(The protective structure is based on the test conditions of IEC60529, IS020653, and JIS C 0920. It does not guarantee all customer usage environments.)
The specified value of the protective structure is the product installation state. |

(5) Contact arrangement— (□■) (□: monitor contact ■: main contact)	1b(01),2b(02),1a2b(12), 1a1b (11)
(6) Contact material	gold plated silver
(7) Button shape	φ30 button
(8) Button color— (※)	Red(R),Bright red (RH)
(9) Terminal style— (△)	Solder terminal (blank), Solder/tab terminal #110 (T)
(10) Applicable wire	1.25mm ² maximum (16 AWG maximum)
(11) Panel thickness	1b、2b : 0.8~3.7mm 1a1b、1a2b : 0.8~3.7mm (insulation panel) 0.8~3.0mm (conductor panel)
(12) Panel cut-out	φ 16.2 ^{+0.2} mm
(13) Mounting nut torque tightening	0.8 to 0.9 N·m

5. Characteristics

(1) Contact resistance	50mΩ maximum (initial value)
(2) Operation force	Push lock: 20N Pull reset: 12N Turn reset: 0.2N·m
(3) Minimum Direct Opening Force	50N
(4) Minimum Direct Opening Travel	3.0mm
(5) Maximum Travel	4.1mm
(6) Insulation resistance	100MΩ 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 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 (Operating class aM according to IEC 60269-1 and IEC 60269-2)
(12) Conditional short-circuit current	100A
(13) Solder heat resistance	310 to 350°C 3sec maximum
(14) Weight (approx.)	15g

6. Life

(1) Mechanical life(without load)	250,000 operation minimum (Operating frequency: 900 operations/hour maximum)
(2) Electrical life	
(a) Rated load	100,000 operation minimum (Operating frequency: 900 operations/hour maximum)
(b) When the load is 24V·100mA AC/DC	250,000 operation minimum (Operating frequency: 900 operations/hour maximum)