IDEC

SPECIFICATION

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Written by F.Takai

 ϕ 22 XW SERIES EMERGENCY STOP PUSHBUTTON SWITCH

TYPE XW1E-BV4□■ △ RH-EMO

Contact arrangement

HC C 9201 5

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 Listing)

UL991 NFPA79

CSA C22.2 No.14 (c-UL Listing)

- Terminal style

2. Operating conditions

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

(4) Pollution degree 3

3. Contact ratings

(1) Rated insulation voltage(2) Thermal current5A

(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	Α	Resistive load (AC12)	-	5A	3A
		C	Inductive load (AC15)	-	3A	1.5A
		D	Resistive load (DC12)	2A	0.4A	0.2A
		C	Inductive load (DC13)	1A	0.22A	0.1A
	Monitor contact	Α	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

(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 - ($\square \blacksquare$) 1NC(01), 2NC(02), 3NC(03), 4NC(04)

(□: monitor contact ■: main contact) 1NO-1NC(11), 1NC-2NO(12), 1NC-3NO(13)

(6) Button style Mushroom (φ 40 button)

(7) Button color Bright red

(8) Terminal style – (Δ) M3 screw terminal/IP20type (MF),

M3 screw terminal/with terminal cover type (M)

(9) Applicable wire 0.75 to 1.25mm² maximum (AWG 18 to 16 maximum)

(10) Panel thickness0.8 to 6mm(11) Panel cut-out ϕ 22.3 $^{+0.4}$ mm(12) Mounting nut torque tightening $2.0 \text{ N} \cdot \text{m}$

5. Characteristics

(1) Contact resistance $50 \text{m} \Omega \text{ maximum (initial value)}$

(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 $100M\Omega$ minimum(measured with a 500 V DC megger)

(7) Impulse withstand voltage(8) Over voltage categoryII

(9) Vibration resistance

(a) Operating extremes Frequency 10 to 500Hz, Amplitude 0.35mm Acceleration 50m/s²
(b) Damage limits Frequency 10 to 500Hz, Amplitude 0.35mm Acceleration 50m/s²

(10) Shock resistance

(a) Operating extremes 150 m/s²
(b) Damage limits 1000 m/s²
(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 20W 5sec maximum or 260°C 3sec maximum

(14) Weight Approx.72g

6. 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)