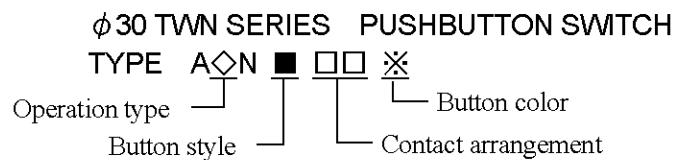




SPECIFICATION



No. ISA4323B
Date. November 30, 2023

Approved by M.Fujimoto
Checked by Y.Hanaoka
Written by F.Takai

1. Applicable standard	JIS C8201-5-1 IEC60947-5-1 EN60647-5-1 (TUV Rheinland Certified) UL508 (UL Listing) CSA C22.2 (CSA Certified) GB/T14048-5 (CCC Certified)
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2. Operating conditions	
(1) Ambient temperature	-25 to +70°C (no freezing)
(2) Relative humidity	45 to 85% (no condensation)
(3) Storage temperature	-40 to +80°C (no freezing)

3. Ratings	
(1) Rated insulation voltage	600V
(2) Thermal current	10A
(3) Rated voltage and rated 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-13)	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— (◊)	Momentary(B),Alternate(O)
(3) Degree of protection	
(a) Operation units (panel front side)	IP65
(b) Contact block	IP20
(4) Contact arrangement— (□□)	1a(10),1b(01),1a-1b(11),2a(20),2b(02),3a(30),3b(03),2a-1b(21), 1a-2b (12), 4a (40), 4b (04), 2a-2b (22), 3a-1b (31), 1a-3b (13)
(5) Button style— (■)	Extended (2), Mushroom(φ 40)(3)
(6) Button color—(✖)	Black(B),Green(G),Red(R),Yellow(Y),Blue(S),White(W)
(7) Terminal style	M3.5 terminal screw +/- screw head

(8) 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

(9) Panel thickness 0.8 to 7.5mm

(10) Panel cut-out φ30.5^{+0.5}mm

5. Characteristics

(1) Contact resistance	50 mΩ maximum (initial value)
(2) Insulation resistance	100MΩ minimum (measured with a 500V DC megger)
(3) Dielectric strength	2500V AC, 1 minute
(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/s ²
(b) Damage limits	1,000 m/s ²

6. Life

(1) Mechanical life (without load)	
(a) Momentary	5,000,000 operation minimum
(b) Alternate	500,000 operation minimum (3-4 contacts: 250,000 operation minimum)
(2) Electrical life (rated load)	
(a) Momentary	500,000 operation minimum (Operating frequency: 1,800 operations/hour maximum, Duty Rate: 40%)
(b) Alternate	500,000 operation minimum (3-4 contacts: 250,000 operation minimum) (Operating frequency: 900 operations/hour maximum, Duty Rate: 40%)