



File No.:134517



Features

- 10A switching capability
- Long life (Min. 100,000 electrical operations)
- Industry standard 8 or 11 round terminals
- Matching sockets available
- With push button
- Smoke cover type available
- Environmental friendly product available (RoHS compliant)
- Outline Dimensions: 35.5 x 35.5 x 55.3 mm

CONTACT DATA

Contact arrangement	2C, 3C
Initial contact resistance Max.	100 mΩ (at 1A 24VDC)
Contact material	AgSnO ₂ , AgCdO
Contact rating (Res. load)	2C:10A 250VAC/30VDC 3C:(NO)10A 250VAC/30VDC (NC) 5A 250VAC/30VDC
Max. switching voltage	250VAC / 30VDC
Max. switching current	10A
Max. switching power	300W / 2500VA
Mechanical life	1 x 10 ⁷ OPS
Electrical life	1 x 10 ⁵ OPS

CHARACTERISTICS

Initial insulation resistance	500MΩ (at 500VDC)	
Dielectric strength	Between coil & contacts	2500VAC 1min.
	Between open contacts	2000VAC 1min.
Operate time (at nomi. volt.)	Max. 25ms	
Release time (at nomi. volt.)	Max. 25ms	
Temperature rise	70°C	
Shock resistance	Functional	98m/s ²
	Destructive	980m/s ²
Vibration resistance	10 to 55Hz 1.5mm	
Humidity	98% RH, +40°C	
Ambient temperature	-40°C to +55°C	
Termination	Octal and Undecal Type Plug	
Unit weight	85g	
Construction	Dust cover	

COIL

Coil power	DC type: 1.5W; AC type: 2.7VA
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COIL DATA

Nominal Voltage (VDC)	Pick-up Voltage (VDC)	Drop-out Voltage (VDC)	Max. Allowable Voltage (VDC) 20°C	Coil Resistance (Ω)
6	4.80	0.60	7.20	23.5 ± 10%
12	9.60	1.20	14.40	95 ± 10%
24	19.2	2.40	28.80	430 ± 10%
48	38.4	4.80	57.60	1630 ± 10%
60	48.0	6.00	72.0	1920 ± 10%
100	80.0	10.0	120.0	6800 ± 10%
110	88.0	11.0	132.0	7300 ± 10%

Nominal Voltage (VAC)	Pick-up Voltage (VAC)	Drop-out Voltage (VAC)	Max. Allowable Voltage (VAC) 20°C	Coil Resistance (Ω)
6	4.80	1.80	7.20	3.9 ± 10%
12	9.60	3.60	14.40	16.3 ± 10%
24	19.2	7.20	28.80	70 ± 10%
48	38.4	14.4	57.60	315 ± 10%
115/120	88.0	36.0	132.0	1600 ± 10%
230	176	72.0	264.0	6800 ± 10%

SAFETY APPROVAL RATINGS

UL&CUR	10A 250VAC/30VDC
	1/3HP 240VAC
	1/3HP 120VAC
	1/2HP 277VAC

ORDERING INFORMATION

JQX-10FH / 012 A 2Z D T G XXX

Type

Coil voltage DC: 6, 12, 24, 48, 100, 110
AC: 6, 12, 24, 48, 110/120, 220/240

Coil voltage form A: AC D: DC

Contact arrangement 2Z: 2 Form C 3Z: 3 Form C
3Z-1: 3 Form C (Different Wiring Diagram)

LED D: With LED Nil: Without LED

Contact material T: AgSnO₂ Nil: AgCdO

Contact plating G: Gold plated Nil: No gold plated

Customer special code (Only for special requirements) e.g. 551 stands for RoHS compliant (Cadmium containing contacts)
555 stands for RoHS compliant (Cadmium-free contacts)

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

Outline Dimensions

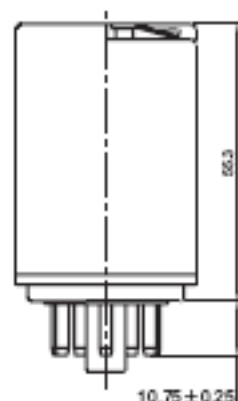
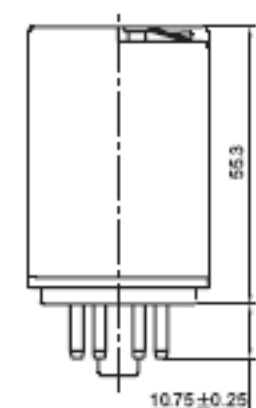
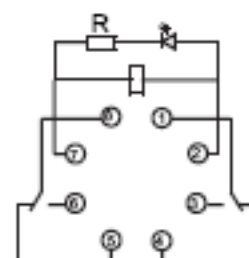
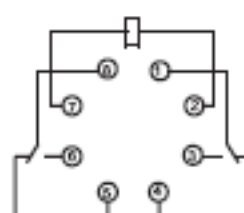
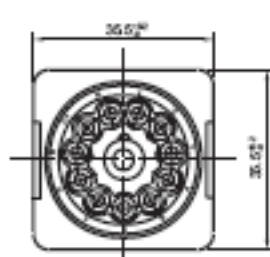
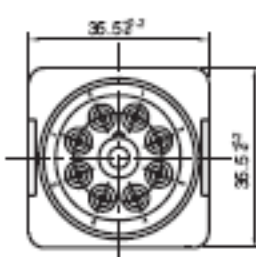
Wiring Diagram

2 Form C

3 Form C

2 Form C

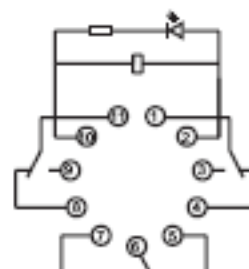
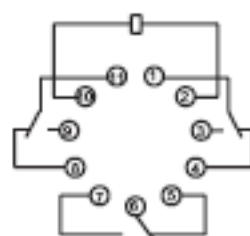
2 Form C (With LED)



3 Form C

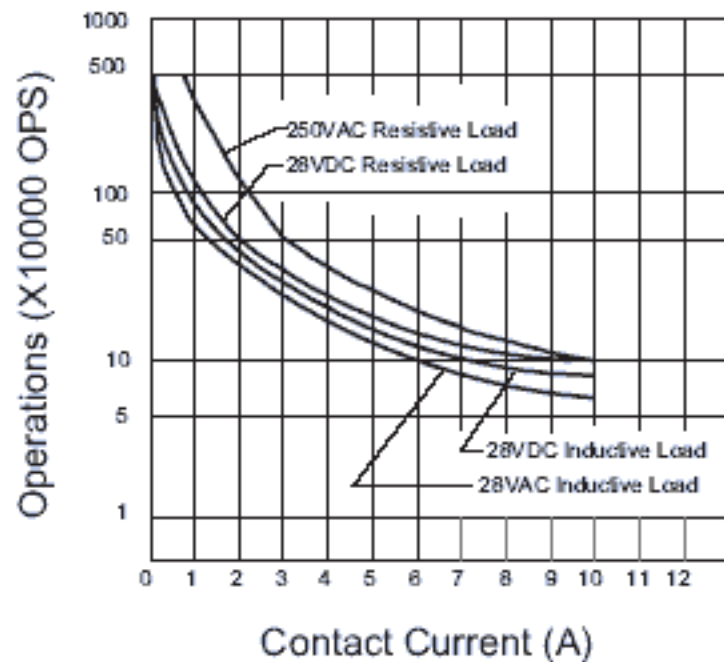
3 Form C
(Different Wiring Diagram)

3 Form C (With LED)



CHARACTERISTIC CURVES

LIFE CURVE



MAXIMUM SWITCHING POWER

