



UL,C-UL File No.:E179745
TUV File No.:40002146
CQC File No.:CQC02001002114

- Small size (10.2×18.2×15.2 in mm) at 5A switching capacity relay for high density P.C. board mounting technique.
- Surge resistance of 5000V on SJ relays.
- Sealed Construction.

SPECIFICATIONS

Contact

Arrangement	1a, DM	1a, LM
Contact material	Silver alloy	
Contact resistance (1A 6VDC)	50mΩ Max.	
VED rating Resistance load	5A 250VAC	3A 250VAC
UL/C-UL rating Resistance load (cos φ =1)	10A 120VAC 5A 250VAC 5A 28VDC	5A 120VAC 3A 250VAC 3A 28VDC
Resistance load (cos φ =0.75~0.8)	1.5A 250VAC	1A 250VAC
CQC rating	5A 250VAC	3A 250VAC
Max. switching voltage	265VAC	30VDC
Max. switching current	5A	3A
Max. switching power	1,200VA 140W	600VA 90W
Expected life (min. ope)	Mechanical (at 120 cpm)	1X10 ⁷
	Electrical (at 20 cpm)	1X10 ⁵

Coil

Nominal operating power	0.20W, 0.45W
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Characteristics

Item	Type	SJ-D	SJ-L
	Operate time		10 msec. Max.
Release time		4 msec. Max.	
Operating humidity		45~85% RH	
Initial breakdown voltage	Between contact and coil	4,000VAC (50/60Hz) for 1 min.	
	Between open contacts	1,000VAC (50/60Hz) for 1 min.	
Insulation resistance		100MΩ Min. (500VDC)	
Ambient temperature		-45°C ~ +85°C	
Shock resistance	Functional	10G Min.	
	Destructive	100G Min.	
Vibration resistance	Functional	10 TO 55 Hz at double Amplitude of 1.5mm	
	Destructive	10 TO 55 Hz at double Amplitude of 1.5mm	
Insulation withstand Voltage		5,000V 1.2×50 μS (Between coil and contacts)	
Unit weight		Approx. 6g	

TYPICAL APPLICATIONS

Domestic appliances, Office machines, Audio equipment, Car use, etc.

ORDERING INFORMATION

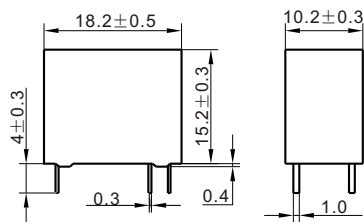
Type	Protective construction	Number of poles	Coil voltage	Coil sensitivity	Contact form
SJ	NIL: Flux type S: Sealed type	1: 1 pole	03,05,06,09, 12,24,48	D: 0.45W L: 0.20W	M: 1 Form A

COIL(at 20°C)

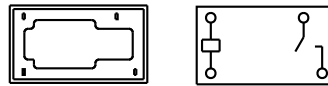
SJ-M(3,5A)

Type	Voltage code	Nominal voltage (VDC)	Nominal current (mA)	Coil resistance ($\Omega \pm 10\%$)	Drop-out voltage (VDC)	Pick-up voltage (VDC)	Nominal operating power (W)	Max allowable voltage (VDC)
SJ-D	03	3	150.00	20	5%Min.	75%Max.	0.45	130% of nominal voltage
	05	5	89.28	56				
	06	6	75.00	80				
	09	9	50.00	180				
	12	12	37.50	320				
	18	18	25.00	720				
	24	24	18.75	1,280				
SJ-L	03	3	66.67	45	5%Min.	75%Max.	0.20	130% of nominal voltage
	05	5	40.00	125				
	06	6	33.33	180				
	09	9	22.22	405				
	12	12	16.67	720				
	18	18	14.81	1,620				
	24	24	8.33	2,800				

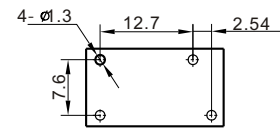
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PCB BOARD LAYOUT(unit:mm)



Wiring Diagram

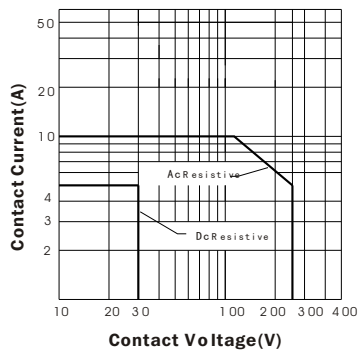


PCB layout

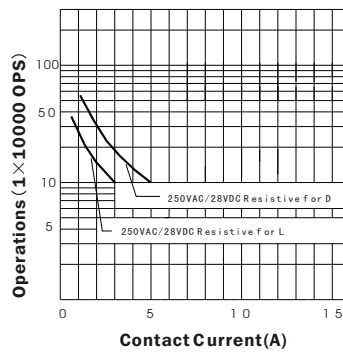


CHARACTERISTICS CURVE

MAXIMUM SWITCHING POWER



LIFE CURVE



COIL TEMPERATURE RISE

