

UL,C-UL File No.:E179745  
TUV File No.:R50031793  
CQC File No.:CQC04001009429/1

- Smallest size (10.2×20.6 ×15.3 mm) at 10A switching capacity relay for high density P.C.board mounting technique.
- Surge resistance of 5000V on SJE relays.
- Sealed Construction.

## SPECIFICATIONS

### Contact

Item	SJE-D		SJE-L	
	1a	1c	1a	1c
Arrangement				
Contact material	Silver alloy			
Contact resistance (1A 6VDC)	50 mΩ Max.			
UL/C-UL rating				
Resistance load (cos φ =1)	10A 125VAC 5A 250VAC 5A 30VDC	5A 250VAC(N.O.) 5A 30VDC(N.O.) 3A 250VAC(N.C.) 3A 30VDC(N.C.)	3A 250VAC 3A 30VDC	3A 250VAC(N.O./N.C.) 3A 30VDC(N.O./N.C.)
Inductive load (Cos φ =0.75~0.8)	1.5A 250VAC	1A 250VAC(N.C.)	1.5A 250VAC	1A 250VAC
TUV rating	NO: 5A 250VAC NC: 3A 250VAC			
CQC rating	5A 250VAC		3A 250VAC	
Resistance load				
Max.switching voltage	277VAC/ 30VDC			
Max.switching current	10A		3A	
Max.switching power	1,250VA/150W		750VA/90W	
Expected Life (min.ope)	Mechanical (at 120 cpm)	1X10 <sup>7</sup>		
	Electrical (at 20 cpm)	1X10 <sup>5</sup>		

### Characteristics

Item	Type	
	SJE-D	SJE-L
Operate time	10 msec. Max.	15 msec. Max.
Release time	4 msec. Max.	
Operating humidity	45~80% 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	1,000M Ω Min.(500VDC)	
Ambient temperature	-40°C ~ +85°C	
Insulation resistance	5,000V 1.2×50 μ s (Between coil contacts)	
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
Unit weight	Approx. 7g	

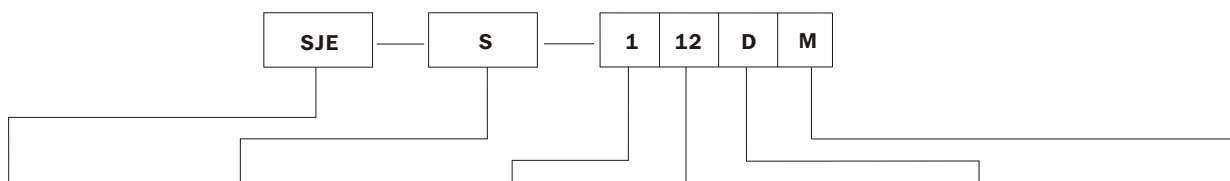
### Coil

Nominal operating power	0.20W, 0.45W
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## TYPICAL APPLICATIONS

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

## ORDERING INFORMATION



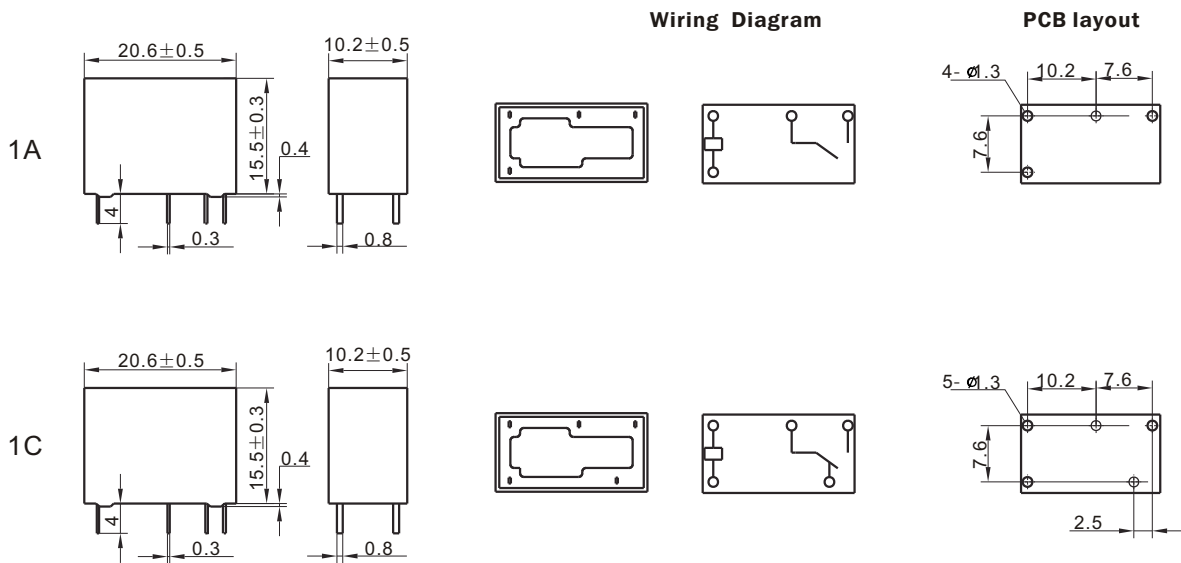
Type	Protective construction	Number of poles	Coil voltage	Coil sensitivity	Contact form
SJE	NIL:Flux type S:Sealed type	1:1 pole	03,05,06,09 12,18,24,48	D:0.45W L:0.20W	M:1 Form A Nil:1 Form C

# COIL(at 20°C)

SJE

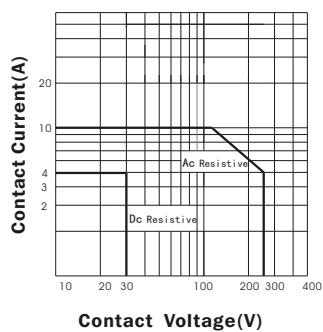
Voltage code	Nominal voltage (VDC)	Nominal current (mA)	Coil resistance ( $\Omega \pm 10\%$ )	Drop-out voltage (VDC)	Pick-up voltage (VDC)	Nominal operating power (W)	Max allowable voltage (VDC)
03	3	150.00	20	5%Min.	75%Max.	0.45	130% of nominal voltage
05	5	90.91	55				
06	6	75.00	80				
09	9	50.00	180				
12	12	37.50	320				
18	18	25.00	720				
24	24	18.75	1,280				
48	48	9.38	5,120				
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	11.11	1,620				
24	24	8.33	2,880				
48	48	4.17	11,520				

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

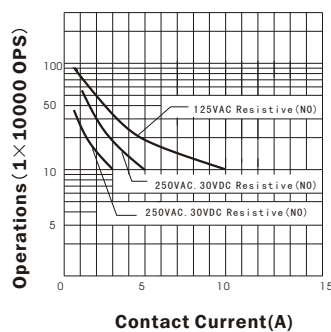


## CHARACTERISTICS CURVE

**MAXIMUM SWITCHING POWER**



**LIFE CURVE**



**COIL TEMPERATURE RISE**

