



Features

- Advanced DEC DQ1U technology and production line was introduced into from Japan
- Small size (18.2x10.2x15.5mm) with 5A switching capability for high density PCB mounting
- Surge voltage : 10000 V (between coil and contact).
- Patent number : ZL 200820188817.6, ZL 200820188818.0
- Satisfice IEC60335-1 product is available.
- Satisfice IEC60079-15 product is available.

Safety Approval

UL , C - UL File No . : E190598

VDE File No . : 40002146

CQC File No. : CQC02001002114

TUV File No . : R50142420

Contact Capacity

Model	SJ-DM	SJ-LM
Nominal switching capacity (res. load)	5A 250VAC	3A 250VAC
Max. switching current	5A	5A
Max. switching voltage	277VAC	277VAC
Max. switching power	1,385VA	1,385VA

Characteristic Data

Contact material	Silver alloy	
Initial contact resistance (at 6VDC 1A)	50mΩ Max.	
Operate time (at nominal volt .)	10msec. Max.	
Release time (at nominal volt .)	5msec. Max.	
Initial insulation resistance	1,000MΩ Min.(DC500V)	
Initial dielectric strength	Between open contacts :	AC1,000V , 50/60Hz 1min.
	Between coil and contact :	AC4,000V , 50/60Hz 1min.
Vibration resistance	Functional	10 ~ 55Hz at double amplitude of 1.5 mm
	Destructive	10 ~ 55Hz at double amplitude of 1.5 mm
Shock resistance	Functional	10G Min.
	Destructive	100G Min.
Endurance (operations)	Mechanical (at 10,800 ops./h)	10,000,000
	Electrical (at 1,800 ops./h)	100,000
Ambient temperature	-40°C ~ +105°C (no condensation)	
Unit weight	Approx. 5.6 g	

Coil Data (at 20°C)

Nominal voltage (VDC)	Nominal operating current 10%(mA)	Coil resistance 10%(Ω)	.Max allowable voltage	Pickup voltage (Max.)	Dropout voltage (Min.)	Nominal operating power
3	150.00	20	130% of nominal voltage	75% of nominal voltage	5% of nominal voltage	.Approx 0.45W
5	90.00	55				
6	75.00	80				
9	50.00	180				
12	37.50	320				
18	25.00	720				
24	18.75	1,280				

CoilData (at 20°C)

Nominal voltage (VDC)	Nominal operating current 10%(mA)	Coil resistance 10%(Ω)	.Max allowable voltage	Pickup voltage (Max.)	Droput voltage (Min.)	Nominal operating power
3	66.67	45	130% of nominal voltage	75% of nominal voltage	5% of nominal voltage	Approx. 0.20W
5	40.00	125				
6	33.33	180				
9	22.22	405				
12	16.67	720				
18	14.81	1,620				
24	8.33	2,880				

SafetyApprovalRatings

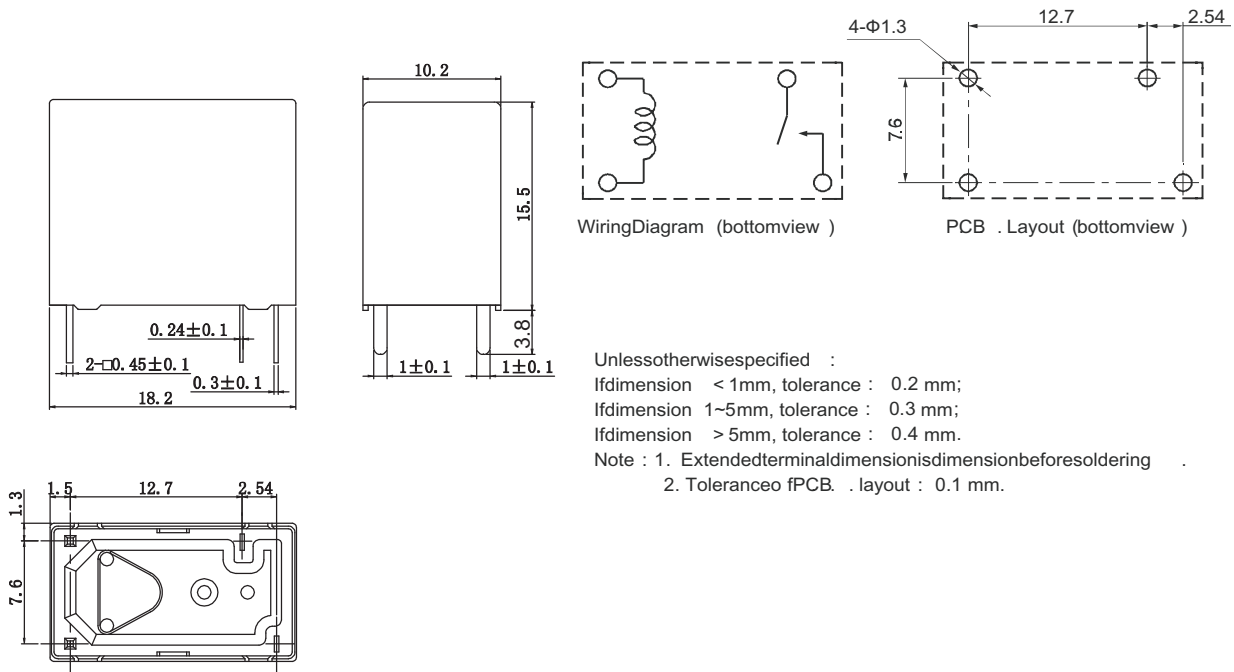
(Note:More detail of approval ratings,please refer to the safety certification)

Approval	CQC	TUV	VDE	UL/CUL
FileNo.	CQC02001002114	R50142420	40002146	E190598
Approvedratings	SJ-D & SJ-L: 5A 250VAC	SJ-D: 5A 250VAC	SJ-D: 5A 250VAC SJ-L: 3A 250VAC 5A 250VAC	SJ-D: 5A 277VAC, Resistive 5A 250VAC, Resistive&GeneralUse 5A 28VDC, Resistive 1.5A 250VAC, GeneralUse SJ-L: 3A 277VAC, Resistive 5A 120VAC, Resistive 3A 250VAC, Resistive&GeneralUse 3A 28VDC,, Resistive 1A 250VAC, Generaluse

OrderingInformation

Nomenclature									
SJ	-S	-1	12	D	M	1-	F	XX	
Special Parameter : Nil-Standard type, Letter or number-Special requirement									
Insulation System : Nil-Standard, B-ClassB, F-ClassF									
Contact Material : Nil-AgSnO ₂ , 1-AgCdO, 2-AgNi									
Contact Form : M-FormA									
Coil Power : D-0.45W, L-0.20W									
Coil Voltage (VDC) : 03 , 05, 06, 09, 12, 18, 24									
Number of Poles : 1-1 Pole									
Protective Construction : S-Flux proofed, SH-Sealed type washable									
Type Designation : SJ									

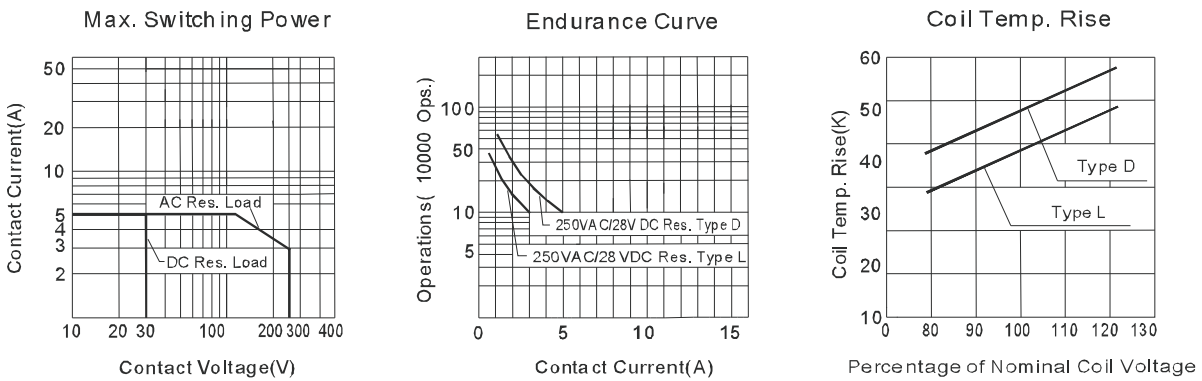
Outline Dimensions, Wiring Diagram, P.C. Board Layout (unit : mm)



Typical Applications

- Home appliances, office equipment, audio equipment, car, air conditioner, etc.

Characteristic Curves



Disclaimer:

This datasheet is the customers' reference. All the specification are subject to change without notice. We could not evaluate all the performance and all the parameters for every possible application. Thus the user should in a right position to choose the suitable product for their own application. If there is any query, please contact Sanyou for the technical service. However it is the user's responsibility to determine which product should be used only.