

Miniature High Power Relay

SFK-Series



Features

- Miniature relay with high switching capability(25A VDE Certified), especialy suitable for motor and compressor control
- Both quick connect and PCB terminal types available
- especiallysuitable for Motor and compressor control
- Satisfy IEC60335-1 product is available
- Satisfy IEC60079-15 product is available

Safety Approval

UL , C-UL File No. : E190598 VDE File No. : 40007481 TUV File No. : R50138321

CQC File No.: CQC02001002131

Contact Capacity

Model	SFK
Nominal switching capacity (res.load)	20A/25A 250VAC
Max. switching current	25A
Max. switching voltage	277VAC
Max. switching power	6,250VA

Characteristic Data

Contact material	Silver alloy			
Initial contact resistance (at 6 VDC 1 A)	100mΩ Max.(1A 6VDC)			
Operate time (at nominal volt .)	20msec. Max. (no diode)			
Release time (at nominal volt .)	10msec. Max. (no diode)			
Initial insulation resistance	1,000MΩ Min.(DC500 V)			
Initial dielectric strength	Between open contacts: AC1,000 V, 50/60 Hz 1min.			
	Between coil and contact: AC4,500 V, 50/60 Hz 1min.			
VIII - C	Functional	10 ~ 55Hz at double amplitude of 1.5 mm		
Vibration resistance	Destructive	10 ~ 55Hz at double amplitude of 1.5 mm		
Shock resistance	Functional	100G Min.		
SHOCK resistance	Destructive	10G Min.		
Endurance (operations)	Mechanical (at 7,200 ops./h)	10,000,000 cycles (at room temperature)		
	Electrical (at 360 ops./h)	100,000 cycles (at room temperature)		
Ambient temperature	-40°C ~ +85°C (no condensation)			
Unit weight	Approx. 22.0 g			

Standard Coil Data (at 20°C)

otalidala con bata (x 100)						
Nominal voltage (VDC)	Nominal operating current 10% (mA)	Coil resistance 10% (Ω)	.Max allowable voltage	Pick-up voltage (Max.)	Drop-out voltage (Min.)	Nominal operating power
5	180.00	27.80				
6	150.00	40.00	120.0/ - 1	75.0/ - 6	E 0/ - f	
9	100.00	90.00	130 % of	75 % of	5 % of	
12	75.00	160.00	nominal	nominal	nominal	0.90W
18	50.00	360.00	voltage	voltage	voltage	
24	37.50	640.00				

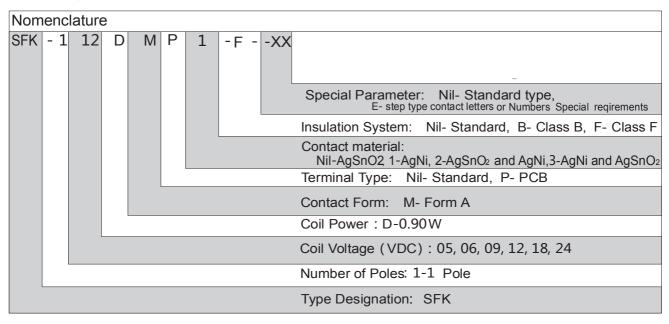
Safety Approval Ratings

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

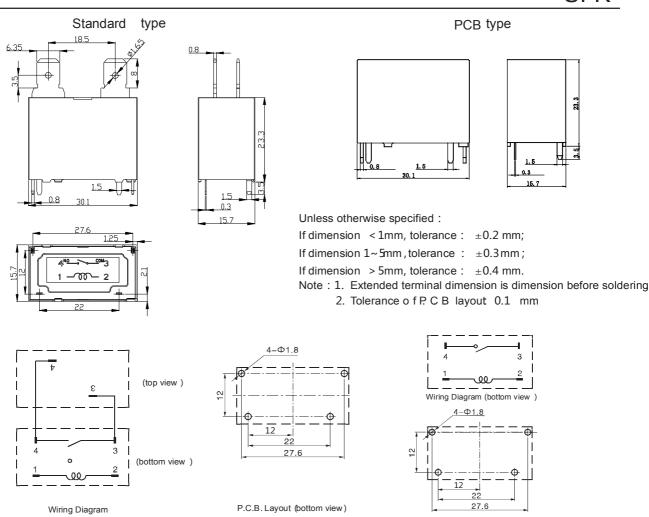
Approval	CQC	TUV	VDE	UL/CUL
File No.	CQC02001002131	R50138321	40007481	E190598
Approved ratings	25A 250VAC 22A 250VAC 20A 250VAC 16A 277VAC		25A 250VAC 22A 250VAC 20A 250VAC	25A 277VAC, Resistive& General use
		Making 80A For 300ms Breaking: 20A 250VAC 22A 250VAC		25A 250 VAC, Resistive& General use
				25A 120 VAC, Resistive& General use
				22A 250 VAC, Resistive & General use
				20A 250 VAC, Resistive& General use
				20A 120 VAC, Resistive& General use
				1HP 120 VAC;2HP 240VAC
				TV-10 120VAC

- (1) The above-mentioned unspecified temperature ratings, means that the ambient temperature is room temperature.
- (2) Only some typical ratings are listed above. Each rating's test condition is different, so the electrical endurance will be different. If more details are required, please contact us.
- (3) For sealed type testing, please open the ventilation hole of case before test.

Ordering Information



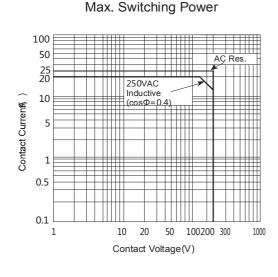
Outline Dimensions, Wiring Diagram, P. C. Board Layout (unit: mm)

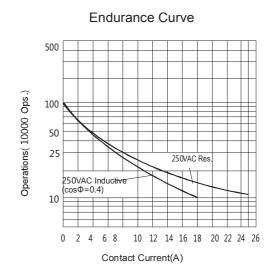


Typical Applications

- Motor, compressor control, e.g.: air conditioner.
- Home appliances and industrial electrical equipment.

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. For sealed relays after installation and cleaning, please open the vent hole on the case before use. If there is any query, please contact Sanyou for the technica service. However it is the user's responsibility to determine which product should be used only.