



Features

- 22A switching capability
- Especially suitable for Photovoltaic inverter, UPS etc
- Contact gap ≥ 1.8 mm (Compliance with IEC 62109-2-2011)
- Clearance / creepage coil-contact circuit 6.4 / 8.0 mm
- Environmental product (Compliance with RoHS)

Safety Approval

UL , C-UL File No. : E190598

VDE File No. : 40007481

TUV File No. : R50138321

Contact Capacity

Model	SFK
Nominal switching capacity (res. load)	H Mark: 22A 250VAC
Max. switching current	22A
Max. switching voltage	277VAC
Max. switching power	5,500VA

Characteristic Data

Contact material	Silver alloy	
Initial contact resistance (at 6VDC 1A)	50m Ω Max.	
Operate time (at nominal volt.)	20msec. Max.	
Release time (at nominal volt.)	10msec. Max.	
Initial insulation resistance	1,000M Ω Min. (DC500V)	
Initial dielectric strength	Between open contacts : H Mark: AC2,500V , 50/60Hz 1min.	
	Between coil and contact : AC4,500V , 50/60Hz 1min.	
Surge voltage	10kV(1.2/50 μ s)	
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.
Coil temperature rise	≤ 70 K (carry currents of contact 22A, Applied voltage of 80% nominal voltage, environmental temperature is 85 $^{\circ}$ C)	
Endurance (operations)	Mechanical (at 10,800 ops./h)	10,000,000
	Electrical (at 360 ops./h)	H Mark: 30,000 cycles
Ambient temperature	-40 $^{\circ}$ C ~ +85 $^{\circ}$ C (no condensation)	
Unit weight	Approx. 22.0 g	

Coil Data of Mark H (at 20 $^{\circ}$ C)

Nominal voltage (VDC)	Nominal operating current $\pm 10\%$ (mA)	Coil resistance $\pm 10\%$ (Ω)	.Max allowable voltage	Pick-up voltage (Max.)	Drop-out voltage (Min.)	Nominal operating power
5	280.00	18.00	130 % of nominal voltage	75 % of nominal voltage	5 % of nominal voltage	.Approx 1.40W
6	233.33	26.00				
9	155.56	58.00				
12	116.67	103.00				
18	77.78	232.00				
24	58.33	412.00				

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	22A 250VAC	22A 250VAC	22A 250VAC	22A 250VAC, Resistive&General use

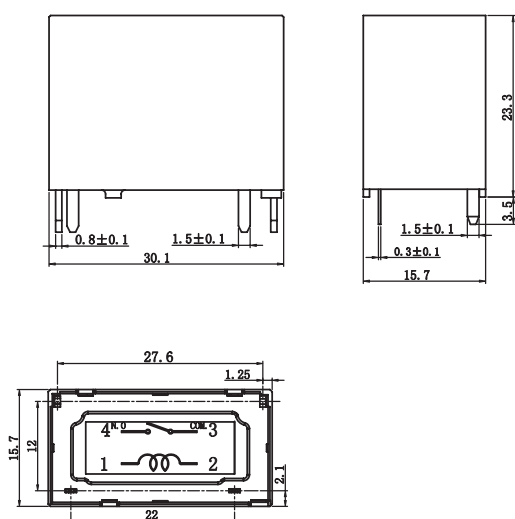
Ordering Information

Nomenclature													
SFK	-	1	12	D	M	P	-	1	-	F	-	H	-XX
Special Parameter : Nil-Standard type, Letters or Numbers-Special requirements													
Parameter Mark: H-GAP>1.8MM, Coil Power 1.40W, OP/OP :2500VAC													
Insulation System : Nil-Standard, B-Class B, F-Class F													
Contact material : Nil-AgSnO2													
Terminal Type: P-PCB													
Contact Form : M-Form A													
Coil Power : D-0.90W (reference coil data of mark H)													
Coil Voltage (VDC) : 05, 06, 09, 12, 18, 24													
Number of Poles : 1-1 Pole													
Type Designation : SFK													

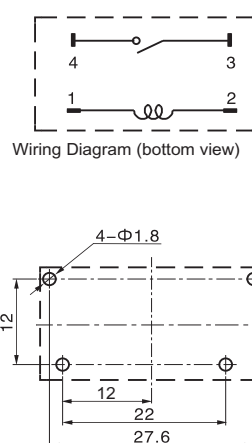
Outline Dimensions, Wiring Diagram, P.C.

Board Layout (unit : mm)

PCB type



PCB type



Unless otherwise specified :

If dimension < 1mm, tolerance : ±0.2mm;

If dimension 1~5mm, tolerance : ±0.3mm;

If dimension > 5mm, tolerance : ±0.4mm.

Note : 1. Extended terminal dimension is dimension before soldering.

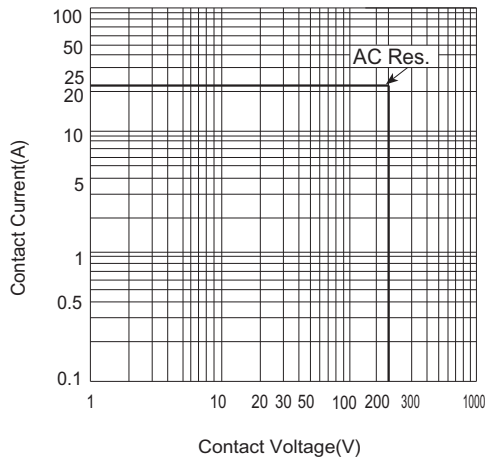
2. Tolerance of P.C.B. layout : ±0.1mm.

Typical Applications

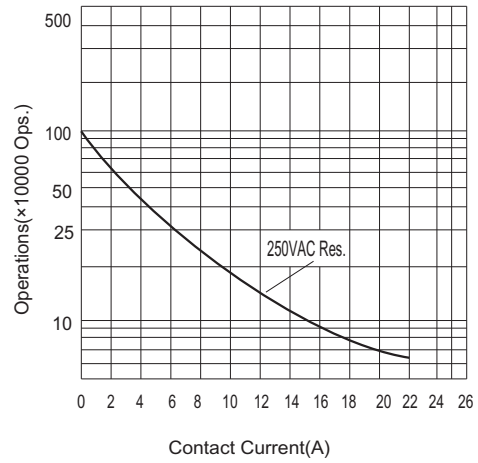
- Especially suitable for Photovoltaic inverter, UPS etc

Characteristic Curves

Max. Switching Power



Endurance Curve



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.