

File No:E134517



File No:40037289



File No:R 50463438



File No:CQC18002189685 CQC18002202621



Features

- 35A swithing capitable.
- Applicable to inverter used for photovoltaic power generation systems.
- Ideal for UPS.
- 1.8mm contact gap(compliant to European Photovoltaic Standard VDE0126).
- Product in accordance to IEC 60335 available.
- Low coil hoilding voltage contributes to saving energy of equipment.
- UL insulation system: class F.

RoHS compliant

CONTACT DATA Contact arrangement

Contact arrangement	1A
Voltage drop	Typ.: 15mV(at 10A)
voltage drop	Max.: 100mV(at 10A)
Contact material	AgSnO₂
Contact rating	Resistive: 35A 250VAC
(Res. load)	Inductive: 35A 277VAC (cosø=0.8) 1s:9s
Max. switching voltage	277VAC
Max. switching current	35A
Max. switching power	9695VA
Mechanical endurance	1 x 10 ⁶ ops
Electrical endurance	3 x 10 ⁴ ops (35A 250VAC,
	Resistive load, at 85°C, 1s on 9s off)

Notes: 1)The relay connections and wiring have to be designed with an adequate cross setions to ensure the current flow and heat dissipation.

1000MΩ (at 500VDC)	
4000VAC 1min	
2500VAC 1min	
6kV (1.2/50µs)	
15ms max.	
10ms max.	
70K max.(Contact load current 43A, 50% of rated voltage excitation, at 85°C)	
98m/s²	
980m/s²	
10Hz to 55Hz 1.5mm DA	
-40°C to 85°C (Apply holding voltage to coil)	
5% to 85% RH	
PCB	
Approx.36g	
Flux proofed	

COIL	
Coil power	Approx.2.25W
Holding voltage	40% to 110%U _N (at 23°C)
	50% to 70%U _N (at 85°C)

Notes: 1)The coil holding voltage is the voltage applied to coil 100ms after the rated voltage.

To avoid overheating and burning, the coil can not be consistently applied to with voltage larger than maximum holding voltage.

COIL	COIL DATA					
Nominal Voltage VDC ¹⁾	Pick-up Voltage VDC max ¹⁾	Drop-out Voltage VDC min ¹⁾	Max. Voltage VDC *2)	Coil Resistance Ω		
5	3.75	0.35	5.5	11.1 x (1±10%)		
12	9	0.84	13.2	64 x (1±10%)		
24	18	1.68	26.4	256 x (1±10%)		
48	36	3.36	52.8	1024 x (1±10%)		

Notes: 1)The data shown above are initial values.

2)*Maximun voltage refers to the maximun voltage which relay coil could endure in a short period of time.

SAFETY APPROVAL RATINGS

UL/CUL	35A 277VAC/250VAC general use 3 x 10 ⁴ ops 85°C
VDE	35A 250VAC 3 x 10⁴ops 85°C
TUV	43A 277VAC/250VAC 85°C Making 10A Carrying 43A Breaking10A 85°C
CQC	40A 277VAC/250VAC 60°C

Notes: 1) All values unspecified are at room temperature.

Only typical loads are listed above. Other load specifications can be available upon request.

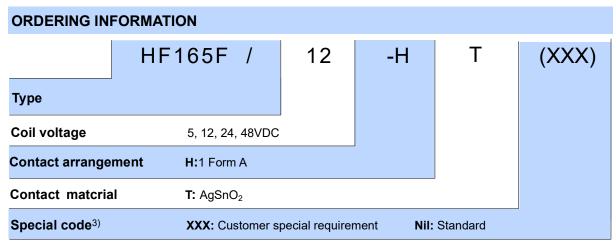
Notes: The data shown above are initial values.



HONGFA RELAY

ISO9001、ISO/TS16949、ISO14001、OHSAS18001、IECQ QC 080000 CERTIFIED

2020 Rev. 1.01



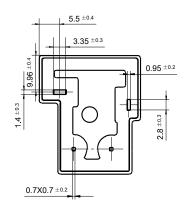
Notes: 1) Water cleaning or surface process is not suggested after the flux-proofed relays are assembled on PCB.

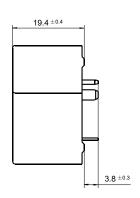
- 2) Flux-proofed relays can not be used in the environment with pollutants like H2S, SO2, NO2, dust, etc.
- 3) The customer special requirement express as special code after evaluating by Hongfa. e.g.(335) stands for product in accordance to IEC 60335-1 (GWT).

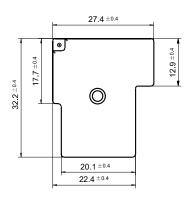
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

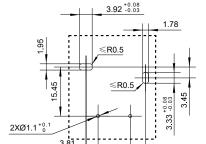
Outline Dimensions



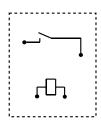




PCB Layout (Bottom view)



Wiring Diagram



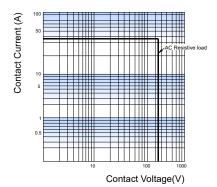
Notes: 1) In case of no tolerance shown in outline dimension: outline dimension \leq 1mm, tolerance should be \pm 0.2mm; outline dimension >1mm and \leq 5mm, tolerance should be \pm 0.3mm; outline dimension >5mm, tolerance should be \pm 0.4mm.

2) The tolerance without indicating for PCB layout $\,$ is always $\pm 0.1 mm$.

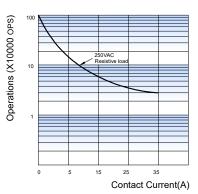
13.97 18.75

CHARACTERISTIC CURVES

MAXIMUM SWITCHING POWER



ENDURANCE CURVE



Test conditions: Resistive load, 250VAC, Flux proofed, at 85°C, 1s on 9s off

Disclaimer

The specification is for reference only. See to "Terminology and Guidelines" for more information. Specifications subject to change without notice. We could not evaluate all the performance and all the parameters for every possible application. Thus the user should be in a right position to choose the suitable product for their own application. If there is any query, please contact Hongfa for the technical service. However, it is the user's responsibility to determine which product should be used only.

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