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File No.: E133481



File No.: R 50374273



Features

- 200A switching capability
- Applicable to solar photovoltaic inverter
- 4 mm contact gap
- Low coil holding voltage contributes to saving energy of equipment
- UL insulation system: Class F

RoHS compliant

CONTACT DATA	
Contact arrangement	1A
Contact resistance(initial)	1mΩ max.(6VDC 20A)
Contact material	AgNi
Contact rating (Res. load)	Making 55A carrying 200A
	breaking 55A 800VAC
Max. switching voltage	830VAC
Max. switching current	200A
Max. switching power	45650VA
Mechanical endurance	1 x 10 ⁶ ops
Electrical endurance	3 x 10 ⁴ ops Making 55A, carrying 200A, breaking 55A, 800VAC, Resistive load, at 85°C, 1s on 9s off)

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

CHARACTERISTICS

Insulation resistance			1000MΩ (at 500VDC)	
Dielectric	Between open contacts		2000VAC 1min	
strength	Between coil & contacts		5000VAC 1min	
Surge Voltage			10kV (1.2/50µs)	
Operate time (at rated. volt.)		ed. volt.)	30ms max.	
Release time (at rated. volt.)		ed. volt.)	10ms max.	
Temperature rise			70K max. (Contact load current 200A, 50% to 60% rated voltage excitation, at 85°C)	
Shock resistance		Functional	98m/s²	
		Destructive	980m/s²	
Vibration resistance*		*	10Hz to 55Hz 1.0mm DA	
Humidity			5% to 85% RH	
Ambient temperature		re	-40°C to 85°C (Apply holding voltage to coil)	
Termination ²⁾			PCB	
Unit weight			Approx. 215g	
Construction			Flux proofed	

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

COIL				
Coil power	Approx. 3W			
Holding voltage	40% to 100% U _N (at 25°C) 50% to 60%U _N (at 85°C)			

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

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

COIL DATA	at 23°C

Nominal Voltage VDC	Pick-up Voltage VDC max. ¹⁾	Drop-out Voltage VDC min. ¹⁾	Max. Voltage VDC ²⁾	Coil Resistance Ω
6	4.2	0.6	7.2	12x (1±10%)
9	6.3	0.9	10.8	27x (1±10%)
12	8.4	1.2	14.4	48x (1±10%)
24	16.8	2.4	28.8	192 x (1±10%)

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

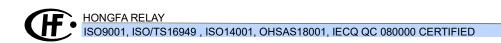
2)Maximun voltage refers to the maximun voltage which relay coil could endure in a short period of time.

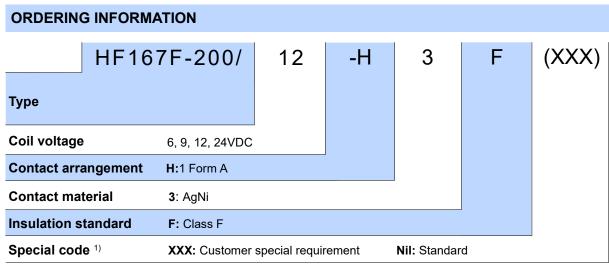
SAFETY APPROVAL RATINGS UL/CUL Making 55A, carrying 200A,breaking 55A, 830VAC,85°C,3 x 10⁴ops, Resistive Making 55A, carrying 200A,breaking 55A, TÜV

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

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

830VAC,85°C,3 x 10⁴ops, Resistive





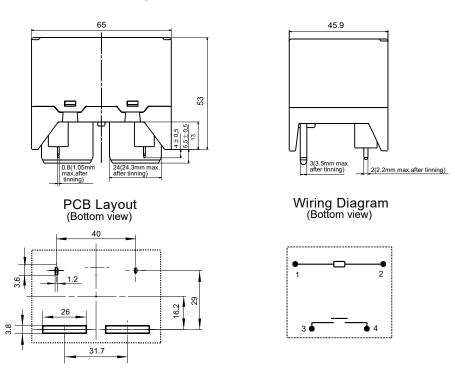
Notes: 1) Flux-proofed relays can not be used inthe environment with pollutants like H2S, SO2, NO2, dust, etc.

- 2) Water clearing or surface process is not suggested after the flux-proofed relays are assembled on PCB.
- 3) The customer special requirement express as special code after evaluating by Hongfa.

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

Outline Dimensions



Remark: 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 ±0.1mm.

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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