

HF36F-W

SUBMINIATURE INTERMEDIATE POWER RELAY



File No.:E134517



File No.:R50356442



File No.:CQC24001427566



Features

- 16A switching capability
- 3kV dielectric strength(between coil and contacts)
- UL insulation system: Class F
- Standard PCB layout

RoHS compliant

CONTACT DATA

Contact arrangement	1A
Contact resistance	100mΩ max.(1A 6VDC)
Contact material	AgSnO ₂
Contact rating	16A 250VAC 16A 30VDC
Max. switching voltage	250VAC / 30VDC
Max. switching current	16A
Max. switching power	4000VA / 480W
Mechanical endurance	5 x 10 ⁵ Ops
Electrical endurance	≥ 1 x 10 ⁴ OPS(85°C, 1s on 9s off, 16A 250VAC, Resistive load)

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

CHARACTERISTICS

Insulation resistance	1000MΩ (500VDC)	
Dielectric strength	Between open contacts	3000VAC 1min
	Between coil & contacts	4000VAC 1min
Surge voltage (between coil&contacts)	10kV (1.2 / 50μs)	
Operate time (at nomi. volt.)	15ms max.	
Release time (at nomi. volt.)	5ms max.	
Coil temperature rise (at nomi. volt.)	70K max.(Contact rating 16A,temperature 85°C)	
Shock resistance	Functional	98m/s ²
	Destructive	980m/s ²
Vibration resistance	10Hz to 55Hz 1.5mm DA	
Humidity	5% to 85% RH	
Ambient temperature	-40°C to 85°C	
Termination	PCB	
Unit weight	Approx.12g	
Construction	Flux proofed	

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

COIL

Coil power	Approx. 650mW
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COIL DATA

at 23°C

Standard type

Nominal Voltage VDC	Pick-up Voltage VDC max. ¹⁾	Drop-out Voltage VDC min. ¹⁾	Max. Voltage VDC ²⁾	Coil Resistance Ω
5	3.75	0.25	6.5	38.5 x (1±10%)
12	9.00	0.60	15.6	221 x (1±10%)
24	18.0	1.20	31.2	886x (1±10%)
48	36.0	2.40	62.4	3544 x (1±10%)

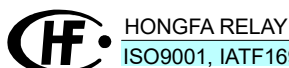
Notes: 1) The data shown above are initial values.

SAFETY APPROVAL RATINGS

UL/CUL	16A 277VAC 16A 30VDC
TÜV	16A 277VAC 16A 30VDC
CQC	16A 277VAC 16A 30VDC

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

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



HONGFA RELAY

ISO9001, IATF16949, ISO14001, ISO45001, IECQ QC 080000, ISO/IEC 27001 CERTIFIED

2025 Rev. 1.00

ORDERING INFORMATION

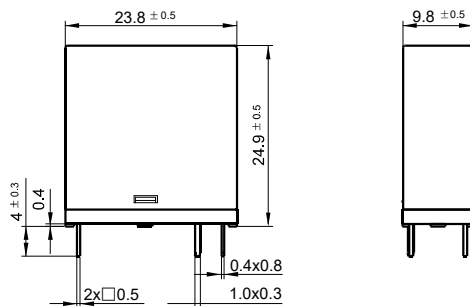
Type	HF36F-W /	12	-H	T	F	(XXX)
Coil voltage	5, 12, 24, 48VDC					
Contact arrangement	H: 1 Form A					
Contact material	T: AgSnO ₂					
Insulation standard	F: Class F					
Special code	XXX: Customer special requirement		Nil: Standard			

- Notes:** 1) Under the ambience with dangerous gas like H₂S, SO₂ or NO₂, plastic sealed type is recommended; Please test the relay in real applications. If the ambience allows, flux proofed type is preferentially recommended.
 2) Contact is recommended for suitable condition and specifications if water cleaning or surface process is involved in assembling relays on PCB.

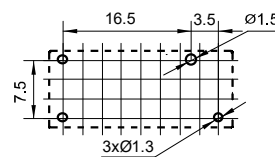
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

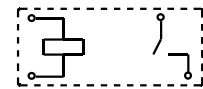
Outline Dimensions



PCB Layout
(Bottom view)



Wiring Diagram
(Bottom view)



- Remark:** 1) In case of no tolerance shown in outline dimension: outline dimension ≤ 1 mm, tolerance should be ± 0.2 mm; outline dimension > 1 mm and ≤ 5 mm, tolerance should be ± 0.3 mm; outline dimension > 5 mm, tolerance should be ± 0.4 mm.
 2) The tolerance without indicating for PCB layout is always ± 0.1 mm.

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.