

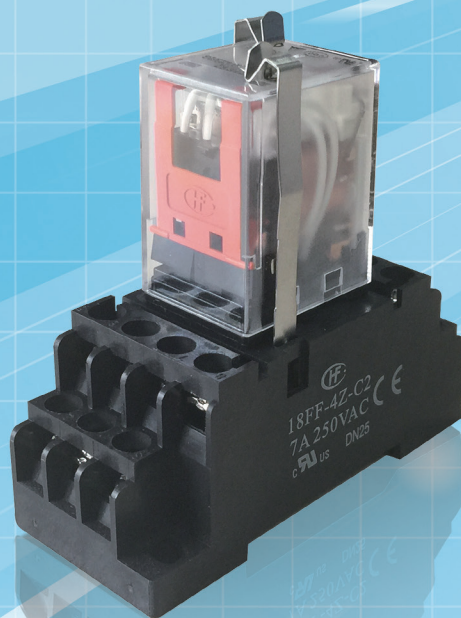
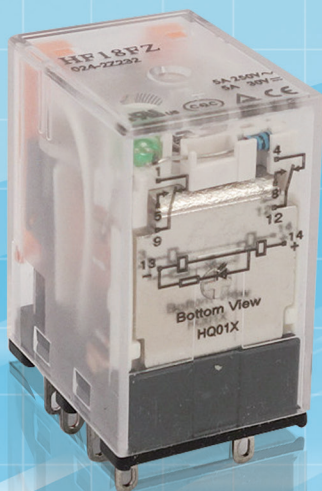
MINIATURE POWER RELAY

HF18FZ Series

NEW

**Brand New Design,
Overall Improvement of Key Performance**

- . 2000V dielectric strength, 50 Million ops mechanical endurance
- . Various types of contact materials available
- . Fully automated production





HF18FZ Series

- Brand new structure design, advanced process technology
- Excellent mechanical endurance & electrical endurance
- Adopt welding technique in contact, stronger current- carrying capability
- Adopt solder- free welding technique
- Various types of contact materials available
- Fully automated production

To build the strongest product

Product Features:

- 2 form C & 4 form C contact form
- HF18FZ: standard type, 2 form C: 5A (7A max), 4 form C: 3A (5A max)
HF18FZ-G: high load type, 2 form C: 10A , 4 form C: 5A
- 2kV dielectric strength (between coil and contacts)
- Mechanical endurance: 5×10^7 ops, electrical endurance: 1×10^5 ops
- Shock resistance stability: $200m/s^2$
- Equipped with testing button specification
- Supporting socket of same series available
- Outline dimensions: (28.0 x 21.5 x 36.0) mm (Without button)
(28.0 x 21.5 x 37.5) mm (With button)



HF18FZ
Standard type: 5A/3A



HF18FZ-G
High load type: 10A/5A



Typical Applications



Low voltage control cabinet



Machine manufacturing



Power equipment



Elevator



Chemical engineering



Charging equipment

HF18FZ Series

CONTACT DATA

Contact arrangement	2C	4C
Contact resistance	Standard type: 100mΩ (at 1A 6VDC) Gold-plated contact type: 50mΩ (at 0.1A 6VDC)	
Contact material	See ordering info.	
Contact rating (Res. load)	5A 220VAC/24VDC	3A 220VAC/24VDC
Contact rating (Inductive load)	2A 220VAC cos φ =0.4 2A 24VDC L/R=7ms	0.8A 220VAC cos φ =0.4 1.5A 24VDC L/R=7ms
Max. switching voltage	220VAC / 24VDC	
Max. switching current	7A	5A
Max. switching power	1100VA/ 120W	660VA/ 72W
Mechanical endurance	5 x 10 ⁷ OPS	
Electrical endurance	5 x 10 ⁵ ops (at room temperature, 2400 ops/h)	2 x 10 ⁵ ops (at room temperature, 2400 ops/h)

CHARACTERISTICS

Insulation resistance	1000MΩ (at 500VDC)	
Dielectric strength	Between coil & contacts	2000VAC 1min
	Between open contacts	1000VAC 1min
	Between contact sets	2000VAC 1min
Operate time (at nomi. volt.)	DC type: 20ms max.	
Release time (at nomi. volt.)	DC type: 20ms max.	
Shock resistance	Functional	200m/s ² (NO), 100m/s ² (NC)
	Destructive	1000m/s ²
Vibration resistance	10Hz to 55Hz 1mm DA	
Humidity	5% to 85% RH	
Ambient temperature	-40°C to 70°C	
Notes: 1) The data shown above are initial values. 2) The data shown above are standard type conditions.		

COIL DATA

at 23°C

Nominal Voltage VDC	Pick-up Voltage VDC max. ¹⁾	Drop-out Voltage VDC min.	Max. Voltage VDC ²⁾	Coil Resistance Ω
6	4.8	0.60	6.6	40 x (1±15%)
12	9.6	1.20	13.2	160 x (1±15%)
24	19.2	2.40	26.4	640 x (1±15%)
48	38.4	4.80	52.8	2725 x (1±15%)
100/110	80.0	11.0	110/121	11440 x (1±15%)

Nominal Voltage VAC	Pick-up Voltage VAC max. ¹⁾	Drop-out Voltage VAC min.	Max. Voltage VAC ²⁾	Coil Resistance Ω
6	4.80	1.80	6.6	11.5 x (1±15%)
12	9.60	3.60	13.2	46 x (1±15%)
24	19.2	7.20	26.4	180 x (1±15%)
48	38.4	14.4	52.8	735 x (1±15%)
110/120	88.0	36.0	121/132	4430 x (1±15%)
220/240	176.0	72.0	242/264	15920 x (1±15%)

Notes: 1) Under ambient temperature, applying more than 80% of rating voltage to coil, relay will take action accordingly. But in order to meet the stated product performance, please apply rated voltage to coil.
2) Maximum voltage refers to the maximum voltage which relay coil could endure in a short period of time.

ORDERING INFORMATION

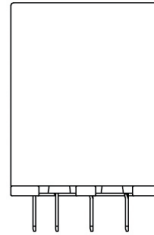
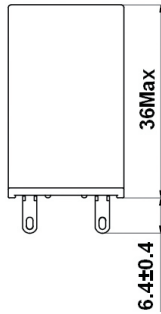
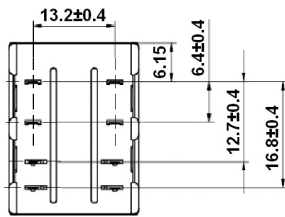
HF18FZ	— □ /	A	12	-2Z	2	3	J	1	G	(XXX)
Type										
Series code Nil: Standard type G: High load type										
Coil voltage form A: AC Nil: DC										
Coil voltage DC: 6VDC to 110VDC AC: 6VAC to 240VAC										
Contact arrangement 2Z: 2 Form C 4Z: 4 Form C										
Termination 2: Socket										
Contact material 3: AgNi alloy T: AgSnO ₂ alloy										
Custom component code Nil: Without Component J: With free-wheeling diode										
Function code 1: without LED without push button 2: with LED without button 3: With LED and button										
Coating code Nil: No gold-plated F: Gold-plated										
Special code ⁽¹⁾ XXX: Customer special requirement Nil: Standard										

Notes: 1) The customer special requirement express as special code after evaluating by Hongfa.

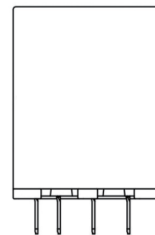
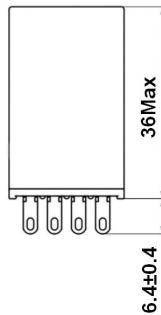
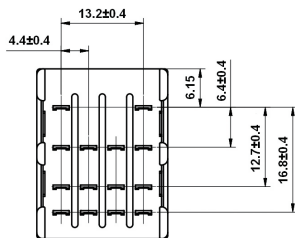
OUTLINE DIMENSIONS

Unit: mm

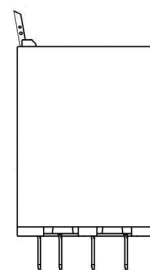
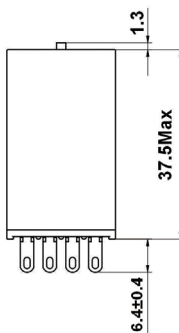
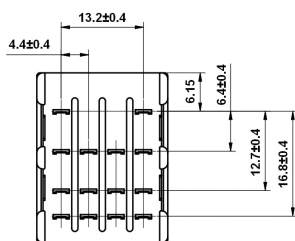
HF18FZ 2 form C no LED no button



HF18FZ 4 form C no LED no button



HF18FZ 4 form C with LED with button



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Scan here for more information.