

# HFE17

# HIGH POWER LATCHING RELAY



### Features

- Latching relay
- 200A switching capability
- According to ANSI C 12.1  
(Carrying: 10kA; Switching: 7kA peak, 12kA RMS short circuit current)
- Switching power up to 55.4kVA
- 4kV dielectric strength (between coil and contacts)
- Environmental friendly product (RoHS compliant)
- Outline Dimensions: (97.6 x 73.2 x 29.5) mm

### CONTACT DATA

Contact arrangement	2A, 2B
Contact resistance	2mΩ (at 1A 24VDC)
Contact material	AgSnO <sub>2</sub>
Contact rating (Res. load)	200A 277VAC/28VDC
Max. switching voltage	440VAC
Max. switching current	200A
Max. switching power	55400VA / 5600W
Mechanical endurance	5 x 10 <sup>4</sup> OPS
Electrical endurance	6000OPS

### CHARACTERISTICS

Insulation resistance	1000MΩ (at 500VDC)	
Dielectric strength	Between coil & contacts	4000VAC 1min
	Between open contacts	2000VAC 1min
Creepage distance	9.6mm	
Operate time (at nomi. volt.)	20ms max.	
Release time (at nomi. volt.)	20ms max.	
Shock resistance	Functional	98m/s <sup>2</sup>
	Destructive	980m/s <sup>2</sup>
Vibration resistance	10Hz to 55Hz 1.5mm DA	
Humidity	98% RH, 40°C	
Ambient temperature	-40°C to 85°C	
Termination	QC	
Unit weight	Approx. 500g	
Construction	Dust protected	

**Notes:** The data shown above are initial values.

### COIL

Coil power	1 coil latching: 12W; 2 coils latching: 24W
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### COIL DATA

at 23°C

Nominal Voltage VDC	Pick-up Voltage VDC	Pulse Duration ms	Coil Resistance x (1±10%)Ω	
12	9.6	200	1 coil latching	12
24	19.2	200		48
48	38.4	200		190
12	9.6	200	2 coils latching	6+6
24	19.2	200		24+24
48	38.4	200		95+95

**Notes:** When requiring other nominal voltage, special order allowed.



HONGFA RELAY

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

2010 Rev. 1.00

## ORDERING INFORMATION

Type	HFE 17 -A / 12 -2H T 2 R (XXX)					
Version	A: Type A contact terminal					
Coil voltage	12, 24, 48VDC					
Contact form <sup>1)</sup>	2A: 2 Form A		2D: 2 Form B			
Contact material	T: AgSnO <sub>2</sub>					
Coil Sort	1: 1 coil latching			2: 2 coils latching		
Polarity	R: Negative polarity			Nil: Positive polarity		

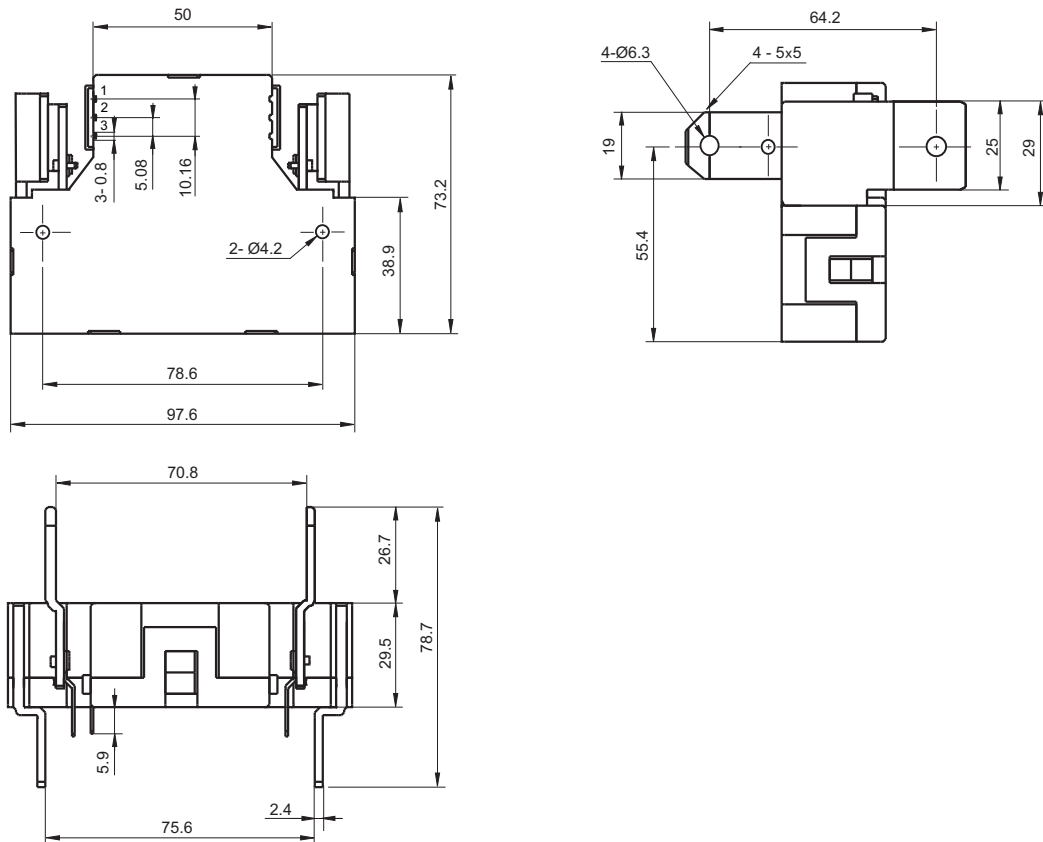
### Customer special code

Notes: 1) 2H means that relay is on the "reset" status when delivery; 2D means that relay is on the "set" status when delivery.

## OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

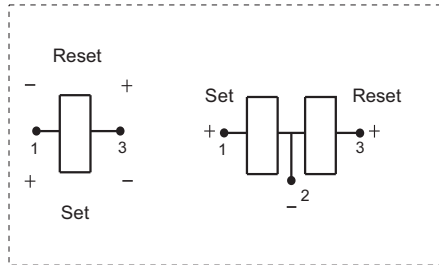
### Outline Dimensions



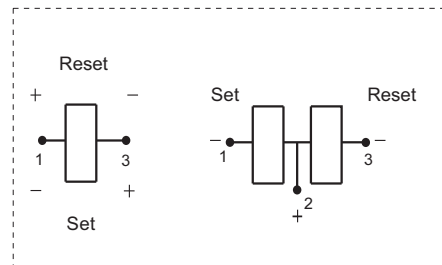
**Remark:** In case of no tolerance shown in outline dimension: outline dimension  $\leq 1$ mm, tolerance should be  $\pm 0.2$ mm; outline dimension  $> 1$ mm and  $\leq 5$ mm, tolerance should be  $\pm 0.3$ mm; outline dimension  $> 5$ mm, tolerance should be  $\pm 0.4$ mm.

Coil Wring Diagram

Positive polarity



Negative polarity



Notice

1. Relay is on the "reset" or "set" status when being released from stock, with the consideration of shock risen from transit and relay mounting, relay would be changed to "set" or "reset" status, therefore, when application (connecting the power supply), please reset the relay to "set" or "reset" status on request.
2. In order to maintain "set" or "reset" status, energized voltage to coil should reach the rated voltage, impulse width should be 5 times more than "set" or "reset" time. Do not energize voltage to "set" coil and "reset" coil simultaneously. And also long energized time (more than 1 min) should be avoided.
3. In order to avoid changing operate voltage, products should not be kept in strong magnetic field during transportation, storage and application.

Disclaimer

This datasheet is for the customers' reference. All the specifications 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 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.