HFE23

MINIATURE 3-PHASES RELAY



Features

- 3-phases latching relay
- 120A switching capability
- Strong resistance ability to shock & vibration
- Heavy load up to 27600VA
- 4kV dielectric strength (between coil and contacts)
- Environmental friendly product (RoHS compliant)
- Outline Dimensions:: (115.0 x 54.0 x 24.0) mm

CONTACT DATA					
Contact arrangement	3A, 3B, 3U, 3V				
Contact resistance	3A, 3B: 1mΩ (at 1A 24VDC)				
	3U, 3V: 0.7mΩ (at 1A 24VDC)				
Contact material	AgSnO ₂				
Contact rating (Res. load)	120A 230VAC				
Max. switching voltage	440VAC				
Max. switching current	120A				
Max. switching power	27600VA				
Mechanical endurance	1 x 10⁵ops				
Electrical endurance	5 x 10 ³ ops				

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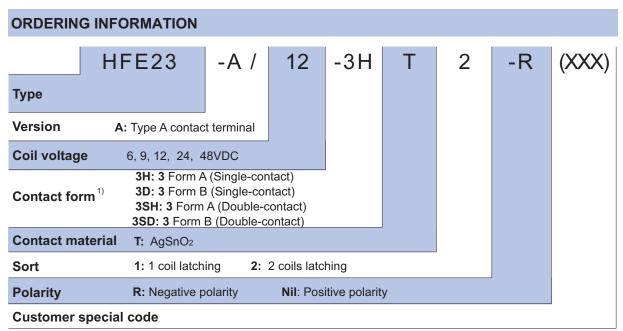
CHARACTERISTICS					
Insulation resistance		1000MΩ (at 500VDC)			
Dielectric strength	Between coil & contacts	4000VAC 1 min			
	Between open contacts	2500VAC 1 min			
Creepage	distance	8mm			
Operate time (at nomi. volt.)		20ms max.			
Release time (at nomi. volt.)		20ms max.			
Shock resistance	Functional	98m/s²			
	Destructive	980m/s²			
Vibration re	esistance	10Hz to 55Hz 1.0mm DA			
Humidity		98% RH, 40°C			
Ambient temperature		-40°C to 85°C			
Termination		QC			
Unit weight		Approx.300g			
Construction	on	Dust protected			

Notes: The data shown above are initial values.

COIL		
Coil power	1 coil latching: 5W;	2 coils latching: 10W

COIL DATA at 23°C							
Nominal Voltage VDC	Pick-up Voltage VDC	Pulse Duration ms	Coil Resistance x (1±10%) Ω				
6	4.8	100	1 coil latching	7			
9	7.2	100		16			
12	9.6	100		29			
24	19.2	100		115			
48	38.4	100		460			
6	4.8	100	2 coils latching	3.5+3.5			
9	7.2	100		8+8			
12	9.6	100		14.5+14.5			
24	19.2	100		57.5+57.5			
48	38.4	100		230+230			

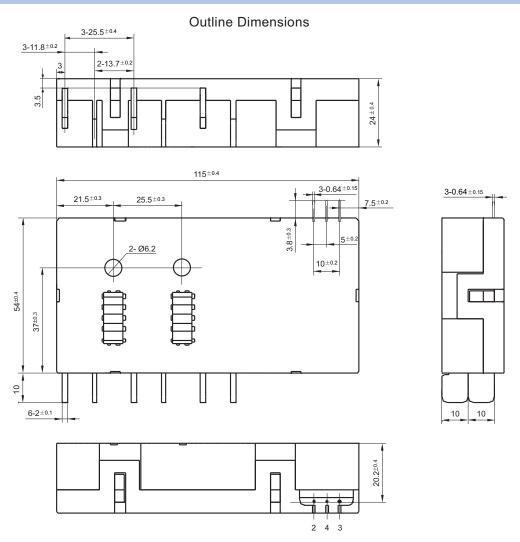
Notes: When requiring other nominal voltage, special order allowed.



Notes: 1) 3H, 3SH means that relay is on the "reset" status when delivery; 3D, 3SD means that relay is on the "set" status when delivery.

OUTLINE DIMENSIONS, WIRING DIAGRAM

Unit: mm

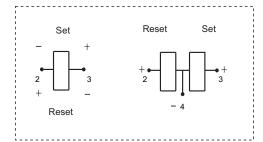


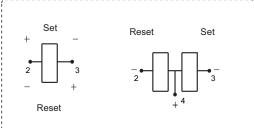
Coil Wiring Diagram

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.

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