HFE25

HIGH POWER LATCHING RELAY



Features

- 200A Latching relay
- Electrical endurance 6000ops
- According to ANSI C 12.1 (Carrying: 12kA r.m.s / 66.7ms; 7kA peak current/100ms)
- Contact resistance ≤0.25mΩ

RoHS compliant

CONTACT DATA

Contact arrangement	2A, 2B		
Contact resistance 1)	Typical value: ²⁾ ≤0.25mΩ(200A)		
Contact material	AgSnO ₂		
Contact rating	See "electrical endurance"		
Max. switching voltage	276VAC		
Max. switching current	200A		
Max. switching power	55200VA		
Mechanical endurance	1 x 10⁵ops		
Electrical endurance	200A 240VAC:6 x 10 ³ ops		
Notes:1) The data shown above are initial values. 2) Typical value: Sampling quantity for contact resistance shall not less than 20 pcs, take the average value from 5 continous			

COIL	
Rated power	Single coil latching: Approx. 12W
	Double coils latching: Approx. 24W

COIL DATA

23°C

Single coil latching

Nominal Voltage VDC	Set / Reset Voltage VDC ¹⁾²⁾	Pulse Duration (Recommended) ms	Coil Resistance x (1±10%) Ω
6	≤4.8	50~100	3
9	≤7.2	50~100	6.75
12	≤9.6	50~100	12
24	≤19.2	50~100	48
48	≤38.4	50~100	190

CHARACTERISTICS

measurements for each sample.

Insulation resistance		1000mΩ (500VDC)			
Dielectric	Between coil and contact	4000VAC 1mir			
strength	Between open contacts	2000VAC 1min			
Creepage	distance	9.6mm			
Set time (at nomi. volt.)		≤20ms			
Reset time (at nomi. volt.)		≤20ms			
Shock	Functional	98m/s ²			
resistance	Destructive	980m/s ²			
Vibration resistance		10Hz ~ 55Hz 1.5mm DA			
Humidity		5% ~ 85% RH			
Ambient temperature		-40°C ~ 85°C			
Terminatior	Coil termination	PCB&QC			
	Load termination	QC			
Unit weight		Approx.400g			
Construction		Dust protected			

Double coils latching

Nominal Voltage VDC	Set / Reset Voltage VDC ¹⁾²⁾	Pulse Duration (Recommended) ms	Coil Resistance x (1±10%) Ω
6	≤4.8	50~100	1.5+1.5
9	≤7.2	50~100	3.3+3.3
12	≤9.6	50~100	6+6
24	≤19.2	50~100	24+24
48	≤38.4	50~100	95+95

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

2) The above values are used as incoming inspection standards, and the recommended driving voltage is 1~1.5 times of the rated voltage.

Notes: The data shown above are initial values.



ORDERING INFORMATION								
	HFE25	-B	/12	-2D	Т	2	-R	(XXX)
Туре								
Version	B:Type B conta	B: Type B contact terminal						
Coil voltage	6, 9,12, 24, 48V	6, 9,12, 24, 48VDC						
Contact 1 arrangement	⁾ 2D: 2Form B	2D :2Form B 2H :2 Form A						
Contact material T: AgSnO ₂								
Coil type 1: Single coil latching 2: Double coils latching								
Polarity	R: Negative pola	arity Ni	I: Positive p	olarity				
Special code ²⁾	XXX: Customer	special requ	uirement					_

Notes: 1) 2H means that relay is on the "reset" status when delivery; 2D means that relay is on the "set" status when delivery. If no speical required by customer, we will keep the relay on the "set" status when delivery.
2) The customer special requirement express as special code after evaluating by Hongfa.

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PCB LAYOUT

Unit: mm



Outline Dimensions

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PCB LAYOUT

Unit: mm



CAUTIONS

- 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. Do not energize voltage to "set" coil and "reset" coil simultaneously. And also long energized time (more than 1 min) should be avoided.
- 3.Normally the load terminals are not suitable for reflow solder, wave solder or tin solder, we suggest use spot welding. Load terminals shall be prevented from assembly stress, or freely move.
- 4. Relays used for metering measuring applications are usually made with dust proof structure, while most relays could be made specially per customer's specific requirements. No longer than 6 months' storage time is recommended for this kind of relay, and please pay attention to the storage environment. To ensure contact reliability, we will keep contact status be closed when delivery if no special required by customer.

Disclaimer

The specification is for reference only. 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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