NEW PRODUCT



HF187F MINIATURE HIGH POWER RELAY

Up to 40A, 4 main + 1 auxiliary contact



FEATURES

- 4 Main contacts +1 Auxiliary contact
- Detection of main contact welding makes it possible to construct a safety circuit (according to IEC 61810-3)
- Meet the requirements for aux. contact linked with power contact (mirror contact)(according to IEC 60947-4-1)
- Contact gap: 3.9 mm (Main contact),each contact
- Low coil holding voltage contributes to save energy
- Fulfill **3kA** short circuit current test according to IEC 62955
- Outline dimensions: (59×35×47)mm

CHARACTERISTICS

Insulation resistance		1000 <mark>ΜΩ</mark> (500VDC)	
	Between open		
	Main contacts		
	Between Main	-	
	contact &		
	Auxiliary contact	2000VAC 1min	
	Between Main		
Dielectric strength	contact sets		
	Between coil &		
	Auxiliary contacts		
	Between coil &	5000VAC 1 min	
	Main contacts	JUOUVAC IIIIII	
	Between open	1000VAC 1min	
	Auxiliary contacts	10007AC 11111	
Operate time (at i	nomi. volt.)	40ms max.	
Release time (at nomi. volt.)		20ms max.	
		70K max.	
		(Contact load current 40A, Applied	
Temperature rise		voltage of coil 100% rated voltage for	
		100 ms holding voltage of coil 50%	
	. .	rated voltage,at 85°C)	
Shock resistance	Functional	98m/s ²	
	Destructive	980m/s ²	
Vibration resistance		10Hz to 55Hz 1.0mm DA	
Humidity		5% to 85%RH	
Ambient temperature		-40°C to 85°C	
Termination		РСВ	
Unit weight		Approx. 200g	
Construction		Flux proofed	

WHY USE THIS PART?

- High switching current, up to 40A.
- Contributes to save energy and space
- High level of isolation
- Ideal for High Power applications.

MAIN APPLICATIONS

Elevator | Machinary | Electric car | Inverter | Power | Industrial Automation | others

CONTACT DATA

Contact arranger	ment	4H/4HB		
Contact	Main contact	10mΩ max(at 6VDC 20A)		
resistance (initial)	Auxiliary contact	100mΩ max(at 6VDC 1A		
Contact material		Main contact : AgSnO2		
Contact material		Auxiliary contact : AgNi		
Contact rating	Main contact	40A 440VAC		
(resistance)	Auxiliary contact	1A 277VAC, 1A 30VDC		
Max. Switching	Main contact	440VAC		
Voltage	Auxiliary contact	277V AC, 30VDC		
		Main contact:40A		
Max. Switching current		Auxiliary contact:1A		
		Main contact:17600VA		
Max. Switching power		Auxiliary contact:277VA/30W		
Mechanical endu	urance	1×10 ⁵ ops		
		NO: Making 10A Loading 40A		
		Breaking 10A,440VAC,		
Electrical and ura		Resistive load, 85°C, 5×10 ⁴ ops		
Electrical endurance		NC:1A 277VAC/30VDC,		
		Resistive load, 85°C		
		1s on 9s off,10×10 ⁴ ops		

COIL

RoHS compliant

Coil power	Approx.4.8W	
Holding voltage	35% to 80%UN(at 23°C)	
	40% to 60%UN(at 85°C)	

Notes:

1)The coil holding voltage is the voltage applied to coil 100ms after the rated voltage. 2)To avoid overheating and burning,the coil can not be consistently applied to with voltage larger than maximum holding voltage.

COIL DATA

Nominal Voltage VDC	Pick-up Voltage VDC max.	Drop-out Voltage VDC min	Max. Allowable Voltage VDC ¹⁾	Coil Resistance Ω
9	6,75	0,45	9,9	16,9x(1±10%)
12	9	0,6	13,2	30x(1±10%)
24	18	1,2	26,4	120x(1±10%)
48	36	2,4	52,8	480x(1±10%)

Notes:

1) Maximum voltage refers to the maximum voltage which relay coil could endure in a short period of time.



Contact us:

