

HF8

SUBMINIATURE INTERMEDIATE POWER RELAY



File No.:E134517



File No.:40001772



File No.:CQC02001001942



Features

- 10A switching capability
- SPDT ,SPST configurations
- Subminiature, High sensitive, PCB layout
- Sealed IP67 types for automatic wave soldering

CONTACT DATA

Contact Arrangement	1A, 1C
Initial Contact Resistance Max.	100mΩ (at 1A 24VDC)
Contact Material	AgNi, AgCdO
Contact Rating (Res. Load)	Medium: 6A 120VAC 6A 24VDC Heavy: 10A 125VAC 10A 24VDC
Max. switching voltage	300VAC/28VDC
Max. switching current	10A
Max. switching power	1250VA /240W
Mechanical life	1 x 10 ⁷ OPS
Electrical life	1 x 10 ⁵ OPS

CHARACTERISTICS

Initial Insulation Resistance		100MΩ 500VDC
Dielectric Strength	Between coil and Contacts	2000VAC 1min.
	Between open contacts	750VAC 1min.
Operate time (at nomi. Volt.)		5ms
Release time (at nomi. Volt.)		2ms
Humidity		98%RH, +40°C
Ambient temperature	Class B	-55°C to +90°C
	Class F	-55°C to +115°C
Shock Resistance	Functional	100 m/s ²
	Destructive	----
Vibration Resistance		1.5mm, 10 to 55Hz
Termination		PCB
Unit weight		Approx. 8g
Construction		Sealed IP67 & Unsealed

COIL

Coil power	0.45W, Sensitive:0.33W
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SAFETY APPROVAL RATINGS

UL	Medium Duty HF8-1CH/1AH	6A 28VDC
		6A 300VAC 1/8 HP 120/240VAC 0.8A 240VAC 1.5A 120VAC 3.8A 120VAC 1.9A 240VAC
	Heavy Duty HF8-1CT/1AT	10A 24VDC 10A 125VAC 10A 250VAC 1/4 HP 120/125VAC 1/2 HP 250VAC 7A 277VAC
VDE	HF8A	6A 220VAC (NO/NC) 6A 30VDC (NO/NC)
	HF8--A (VDE version)	6A 250VAC cos phi=1 5A 250VAC cos phi=1
		2.5A 250VAC cos phi=0.4 2.5A 250VAC cos phi=0.5

Note:All Values at 20°C



HONGFA RELAY

ISO9001、ISO/TS16949、ISO14001 CERTIFIED

VERSION: EN02-20040601

COIL DATA

Medium Duty (6A)

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. allowable Voltage VDC(at 20°C)	Coil Resistance Ω
3	2.25	0.15	3.90	20 $\pm$ 10%
5	3.75	0.25	6.50	56 $\pm$ 10%
6	4.50	0.30	7.80	80 $\pm$ 10%
9	6.75	0.45	11.7	180 $\pm$ 10%
12	9.00	0.60	15.6	320 $\pm$ 10%
18	13.5	0.90	23.4	720 $\pm$ 10%
24	18.0	1.20	31.2	1280 $\pm$ 10%
48	36.0	2.40	62.4	3800 $\pm$ 10%

Heavy Duty (10A)

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. allowable Voltage VDC(at 20°C)	Coil Resistance Ω
3	2.4	0.15	3.90	20 $\pm$ 10%
5	4.0	0.25	6.50	56 $\pm$ 10%
6	4.8	0.30	7.80	80 $\pm$ 10%
9	7.2	0.45	11.7	180 $\pm$ 10%
12	9.6	0.60	15.6	320 $\pm$ 10%
18	14.4	0.90	23.4	720 $\pm$ 10%
24	19.2	1.20	31.2	1280 $\pm$ 10%
48	38.4	2.40	62.4	3800 $\pm$ 10%

Note: When require pick-up voltage < 75% of nominal voltage, special order allowed.

Sensitive Duty

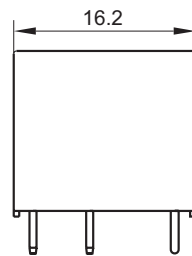
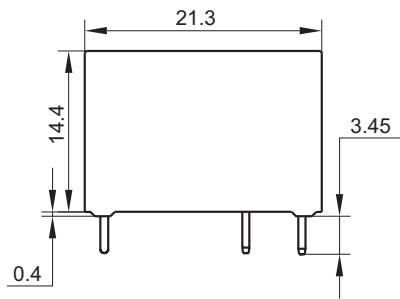
Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. allowable Voltage VDC(at 20°C)	Coil Resistance Ω
5	3.25	0.25	6.50	80 $\pm$ 10%
6	3.90	0.30	7.80	110 $\pm$ 10%
9	5.85	0.45	11.7	250 $\pm$ 10%
12	7.80	0.60	15.6	440 $\pm$ 10%
18	11.7	0.90	23.4	1000 $\pm$ 10%
24	15.6	1.20	31.2	1780 $\pm$ 10%
48	31.2	2.40	62.4	7120 $\pm$ 10%

ORDERING INFORMATION

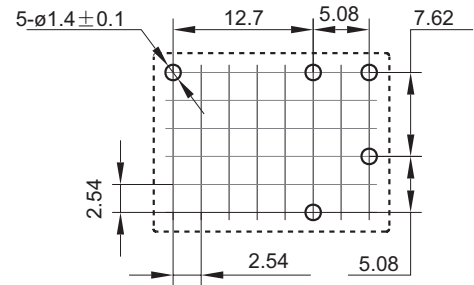
	HF8 / HF8A /	1C	H	12	D	E	F	A
Type	HF8:Imported material HF8A:Domestic material							
Contact arrangement:	1C: 1 FormC 1A: 1 Form A							
Contact Capacity:	H: Medium Duty 6A T: Heavy Duty 10A							
Coil voltage	3, 5, 6, 9, 12, 18, 24, 48VDC							
Coil Source	D: DC							
Structure	E: Sealed IP67 Nil: Unsealed							
Insulation Standard	F: Class F Nil: Class B							
VDE	A: VDE version only for HF8 6A contacts Nil: No VDE approval							

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

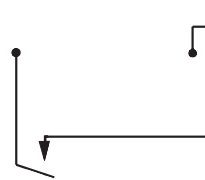
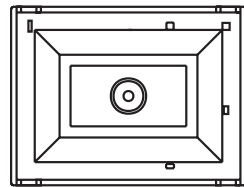
Outline Dimensions



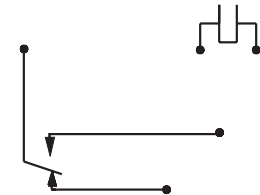
PCB layout



Wiring Diagram



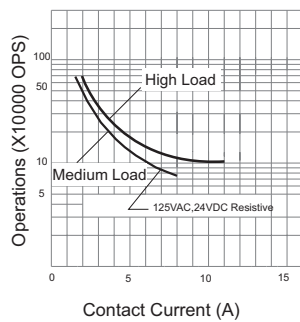
1 Form A



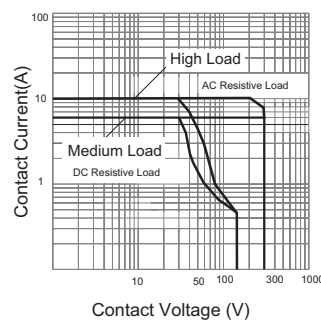
1 Form C

CHARACTERISTICS CURVE

LIFE CURVE



MAXIMUM SWITCHING POWER



COIL TEMPERATURE RISE

