

HF54FF

MINIATURE HIGH POWER RELAY



File No.:E134517



File No.:40014655



File No.:CQC02001001955



Features

- 25A switching capability
- 60A Withstand inrush current
- 1 Form A and 1 Form C configurations
- Environmental friendly product (RoHS compliant)
- Outline Dimensions: (32.0 x 31.0 x 19.0) mm

CONTACT DATA

Contact Arrangement	1A	1C
Contact resistance	100mΩ (at 1A 6VDC)	
Contact material	AgCdO	
Contact rating (Res. load)	1A: 20A 250VAC/24VDC 1C: 15A 250VAC/24VDC	
Max. switching voltage	250VAC	
Max. switching current	25A	15A
Max. switching power	6250VA / 600W	3750VA / 360W
Mechanical endurance	1 x 10 ⁶ OPS	
Electrical endurance	1 x 10 ⁵ OPS (See approval reports for more details)	

COIL

Coil power	900mW
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COIL DATA

at 23°C

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. Allowable Voltage VDC	Coil Resistance Ω
5	3.50	0.50	5.5	27.8 x (1±10%)
6	4.20	0.60	6.6	40 x (1±10%)
12	8.40	1.20	13.2	160 x (1±10%)
24	16.8	2.40	26.4	640 x (1±10%)
48	33.6	4.8	52.8	2560 x (1±10%)

CHARACTERISTICS

Insulation resistance	1000MΩ (at 500VDC)	
Dielectric strength	Between coil & contacts	3000VAC 1min
	Between open contacts	1000VAC 1min
Operate time (at nomi. volt.)	15ms max.	
Release time (at nomi. volt.)	10ms max.	
Temperature rise (at nomi. vot.)	60K max.	
Shock resistance	Functional	98m/s ²
	Destructive	980m/s ²
Vibration resistance	10Hz to 55Hz 1.5mm DA	
Ambient temperature	-40°C to 70°C	
Humidity	35% to 95% RH, 40°C	
Termination	Panel mount, QC	
Unit weight	Approx. 42g	
Construction	Dust protected	

Notes: The data shown above are initial values.

SAFETY APPROVAL RATINGS

UL&CUL	1 Form C	NO: 15A 250VAC COSØ=1 NC: 10A 250VAC COSØ=1
	1 Form A	20A 250VAC COSØ=1
VDE	1 Form C	NO: 15A 250VAC COSØ=1 NC: 10A 250VAC COSØ=1
	1 Form A	20A 250VAC COSØ=1

Notes: Only some typical ratings are listed above. If more details are required, please contact us.



HONGFA RELAY

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

2009 Rev. 1.00

ORDERING INFORMATION

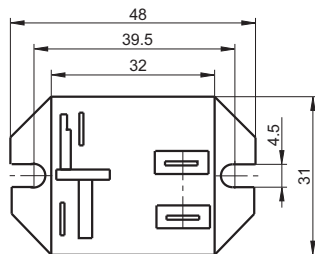
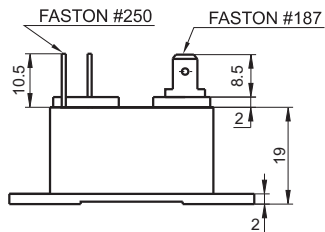
Type		HF54FF / 012D -H		2	5	(XXX)
Coil voltage	5, 6, 12, 24, 48VDC					
Contact arrangement	H: 1 Form A		Z: 1 Form C			
Installation form	2: QC					
Termination	5: (See the following)					
Customer special code						

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

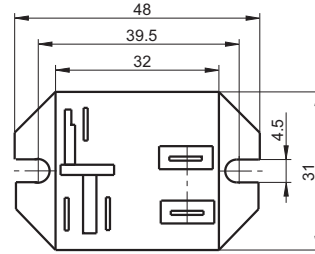
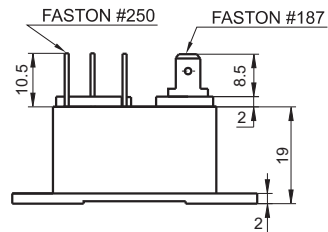
Outline Dimensions

1 Form A



(Top view)

1 Form C



(Top view)

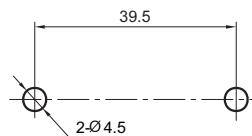
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

Wiring Diagram
(Top view)



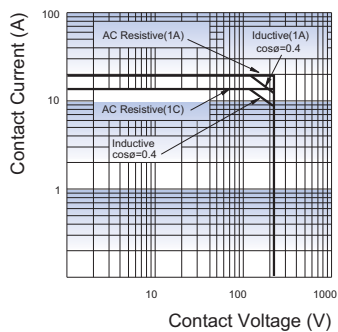
Mounting holes



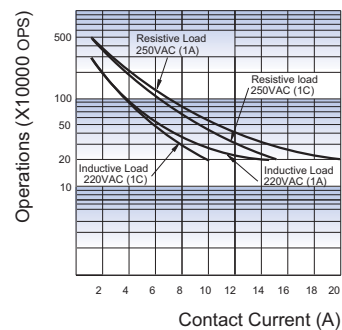
- Remark: 1) In case of no tolerance shown in outline dimension: outline dimension $\leq 1\text{mm}$, tolerance should be $\pm 0.2\text{mm}$; outline dimension $> 1\text{mm}$ and $\leq 5\text{mm}$, tolerance should be $\pm 0.3\text{mm}$; outline dimension $> 5\text{mm}$, tolerance should be $\pm 0.4\text{mm}$.
2) The tolerance without indicating for PCB layout is always $\pm 0.1\text{mm}$.

CHARACTERISTIC CURVES

MAXIMUM SWITCHING POWER



ENDURANCE CURVE



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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