HF162F/HF162F-E SUBMINIATURE INTERMEDIATE POWER RELAY







Features

- High inrush current: TV-8 125VAC (118A inrush current)
- 3A/100A 250VAC capacitive load
- Low height, only 9.3mm (excluding buttons)
- High sensitivity: 250mW, Ideal for device power reduction
- Silent type available
- Typical applications: Flat-panel TVs, Audio visual equipment and other slim profile devices
- Environmental friendly product (RoHS compliant)
- Outline Dimensions: (26.3 x 26.1 x 10.0) mm

CONTACT DATA	
Contact arrangement	1A
Contact resistance	100mΩ (at 1A 6VDC)
Contact material	Silver alloy
	10A 125VAC
	8A 277VAC
Contact rating	5A 277VAC
	TV-8 125VAC
	3A/100A 250VAC (Capacitive)
Max. switching voltage	277VAC
Max. switching current	10A
Max. switching power	2216VA
Mechanical endurance	1 x 10 ⁶ ops
Electrical endurance	1 x 10 ⁵ ops (See approval reports for more details)

CHARACTERISTICS			
Insulation resistance		1000MΩ (at 500VDC)	
Dielectric	Between coil & contacts	4000VAC 1min	
strength	Between open contacts	1000VAC 1min	
Surge voltage (between coil & contacts)		10kV (1.2 x 50μs)	
Operate time (at nomi. volt.)		15ms max.	
Release time (at nomi. volt.)		5ms max.	
Ambient temperature		-40°C to 70°C	
Humidity		5% to 85% RH	
Shock	Functional	196m/s ²	
resistance	Destructive	980m/s ²	
Vibration resistance		10Hz to 55Hz 1.5mm DA	
Termination		PCB	
Unit weight		Approx.12g	
Construction		Flux proofed	

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

COIL	
Coil power	250mW

COIL DATA at 23°C

Standard type				
Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. Allowable Voltage VDC	Coil Resistance Ω
3	2.25	0.3	3.9	36 x (1±10%)
5	3.75	0.5	6.5	100 x (1±10%)
6	4.5	0.6	7.8	145 x (1±10%)
9	6.75	0.9	11.7	325 x (1±10%)
12	9.0	1.2	15.6	575 x (1±10%)
18	13.5	1.8	23.4	1300 x (1±10%)
24	18.0	2.4	31.2	2300 x (1±10%)

Silent type

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. Allowable Voltage VDC	Coil Resistance Ω
3	2.4	0.3	3.9	36 x (1±10%)
5	4.0	0.5	6.5	100 x (1±10%)
6	4.8	0.6	7.8	145 x (1±10%)
9	7.2	0.9	11.7	325 x (1±10%)
12	9.6	1.2	15.6	575 x (1±10%)
18	14.4	1.8	23.4	1300 x (1±10%)
24	19.2	2.4	31.2	2300 x (1±10%)

SAFETY APPROVAL RATINGS		
UL/CUL	10A 125VAC	
	8A 277VAC	
	5A 277VAC	
	TV-8 125VAC	
SEMKO (Pending)	3A/100A 250VAC, 40T85µ	

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

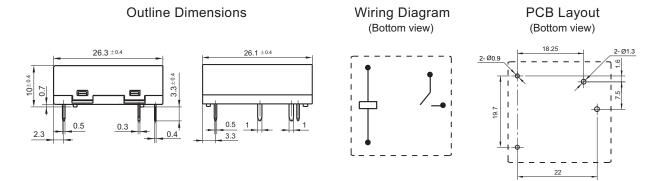
2010 Rev. 1.00

 $^{2) \ \ \}text{Please find coil temperature curve in the characteristic curves below.}$

ORDERING INFORMATION HF 162F / 12 -H (XXX) Type HF162F: Standard type HF162F-E: Silent type Coil voltage 3, 5, 6, 9, 12, 18, 24VDC Contact arrangement H: 1 Form A

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

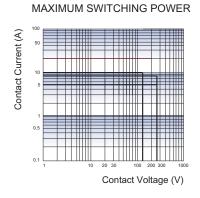


Remark: 1) In case of no tolerance shown in outline dimension: outline dimension ≤1mm, tolerance should be ±0.2mm; outline dimension >1mm and ≤5mm, tolerance should be ±0.3mm; outline dimension >5mm, tolerance should be ±0.4mm.

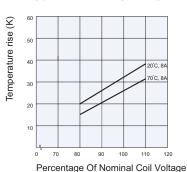
2) The tolerance without indicating for PCB layout $\,$ is always $\pm 0.1 mm$.

CHARACTERISTIC CURVES

Customer special code



COIL TEMPERATURE RISE



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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