HF162F/HF162F-E

SUBMINIATURE INTERMEDIATE POWER RELAY



File No.:E133481



File No.:40032669



File No.:CQC10002050942



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 max.(at 1A 6VDC)
Contact material	Silver alloy
	10A 125VAC
Contact rating	8A 277VAC
	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	5 x 10 ⁴ ops (See approval reports for more details)

CHARACTERISTICS		
Insulation i	resistance	1000MΩ (at 500VDC)
Dielectric	Between coil & contacts	4000VAC 1min
strength	Between open contacts	1000VAC 1min
Surge voltage (between coil & contacts)		10kV (1.2 / 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.
 - 2) Please find coil temperature curve in the characteristic curves below.
 - 3) UL insulation system: Class A

COIL	
Coil power	Approx. 250mW

COIL DATA at 23°C

Standard type

Nominal Voltage VDC	Pick-up Voltage VDC max.	Drop-out Voltage VDC min.	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

onent type				
Nominal Voltage VDC	Pick-up Voltage VDC max.	Drop-out Voltage VDC min.	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 VDE	10A 125VAC	
	8A 277VAC	
	5A 277VAC	
	TV-8 125VAC	
	8A 250VAC	
	5A 250VAC	
	3A/100A 250VAC	

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

2014 Rev. 1.00

ORDERING INFORMATION

HF162F /

12

-H

(XXX)

Туре

HF162F: Standard type **HF162F-E:** Silent type

Coil voltage

3, 5, 6, 9, 12, 18, 24VDC

Contact arrangement

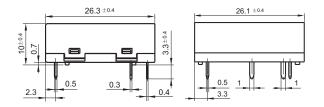
H: 1 Form A

Customer special code

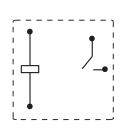
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

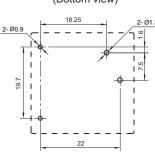
Outline Dimensions



Wiring Diagram (Bottom view)



PCB Layout (Bottom view)

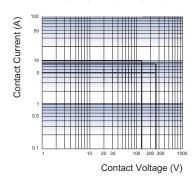


Remark: 1) In case of no tolerance shown in outline dimension: outline dimension ≤1mm, tolerance should be ±0.2mm; outline dimension >1mm and ≤5mm, tolerance should be ±0.3mm; outline dimension >5mm, tolerance should be ±0.4mm.

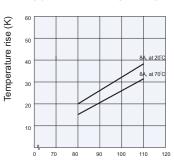
2) The tolerance without indicating for PCB layout is always ±0.1mm.

CHARACTERISTIC CURVES

MAXIMUM SWITCHING POWER



COIL TEMPERATURE RISE



Percentage Of Nominal Coil Voltage

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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