HF38F(JZC-38F)

SUBMINIATURE INTERMEDIATE POWER RELAY



File No.:E133481



File No.:R50063830



Electrical endurance

File No.:CQC02001001944



1 x 10⁵ ops

Features

- 5A switching capability
- 1 Form A and 1 Form C
- Standard and sensitive coils available
- Wash tight and flux proofed types available
- Environmental friendly product (RoHS compliant)
- Outline Dimensions: (20.5 x 10.5 x 20.5) mm

CONTACT DATA	
Contact arrangement	1A, 1C
Contact resistance	100mΩ (at 1A 6VDC)
Contact material	See ordering info.
Contact rating	NO: 5A 250VAC/30VDC
(Res. load)	NC: 3A 250VAC/30VDC
Max. switching voltage	250VAC / 30VDC
Max. switching current	5A
Max. switching power	1250VA / 150W
Mechanical endurance 1x 10	

CHARACTERISTICS			
Insulation resistance		1000MΩ (at 500VDC)	
Dielectric	Between coil & contacts	2000VAC 1min	
strength	Between open contacts	1000VAC 1min	
Operate ti	me (at nomi. volt.)	10ms max.	
Release t	me (at nomi. volt.)	5ms max.	
Humidity		45% to 85% RH	
Ambient to	emperature	-40°C to 85°C	
Shock	Functional	100 m/s ² (10g)	
resistance	Destructive	1000m/s ² (100g)	
Vibration resistance		10Hz to 55Hz 3.3mm DA	
Termination		PCB	
Unit weight		Approx. 8g	
Construction		Wash tight, Flux proofed	

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

2) Please find coil temperature curve in the characteristic curves below.

COIL		
Coil power	Standard: 360mW;	Sensitive: 250mW

COIL DATA		at 23°C
	Standard Tuna	

Standard Type				
Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. Allowable Voltage VDC	Coil Resistance Ω
3	2.1	0.15	3.9	25 x (1±10%)
5	3.5	0.25	6.5	69 x (1±10%)
6	4.2	0.30	7.8	100 x (1±10%)
9	6.3	0.45	11.7	225 x (1±10%)
12	8.4	0.60	15.6	400 x (1±10%)
18	12.6	0.90	23.4	900 x (1±10%)
24	16.8	1.20	31.2	1600 x (1±10%)
48	33.6	2.40	62.4	6400 x (1±10%)

Sensitive Type

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. Allowable Voltage VDC	Coil Resistance Ω
3	2.2	0.15	3.9	36 x (1±10%)
5	3.6	0.25	6.5	100 x (1±10%)
6	4.3	0.30	7.8	145 x (1±10%)
9	6.5	0.45	11.7	325 x (1±10%)
12	8.6	0.60	15.6	575 x (1±10%)
18	13.0	0.90	23.4	1300 x (1±10%)
24	17.3	1.20	31.2	2310 x (1±10%)
48	34.6	2.40	62.4	9220 x (1±10%)

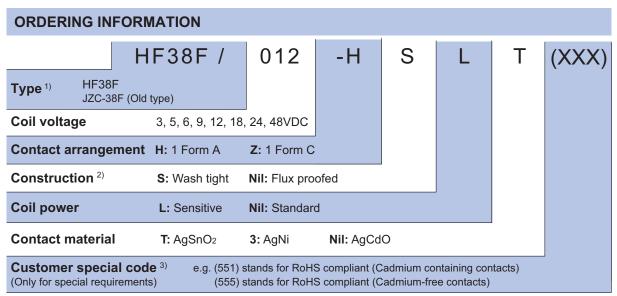
SAFETY APPROVAL RATINGS

UL&CUR	5A 250VAC/30VDC
TÜV	NO: 5A 250VAC/30VDC
(AgNi, AgCdO)	NC: 3A 250VAC/30VDC

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



2007 Rev. 2.00

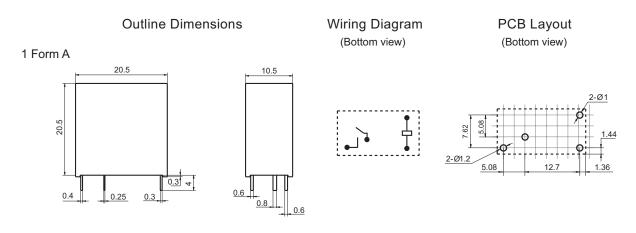


Notes: 1) We have now gradually updated our ordering information. We suggest new type should be selected. If necessary, old type can be kept for some period for the old customers.

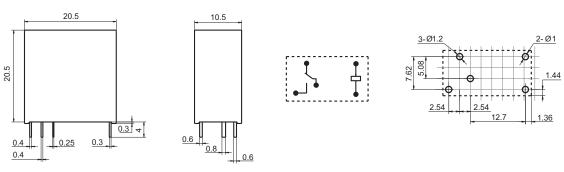
- 2) Under the ambience with dangerous gas like H₂S, SO₂ or NO₂, wash tight type is recommended; please test the relay in real applications. If the ambience allows, flux proofed is preferentially recommended.
- 3) HF38F is an environmental friendly product. Please mark a special code (555) or (551) when ordering. (551) stands RoHS compliant with Cadmium contact; (555) stands for RoHS compliant with Cadmium-free contact.t

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm



1 Form C

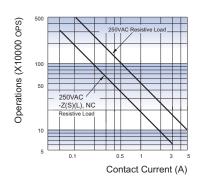


Remark: 1) In case of no tolerance shown in outline dimension: outline dimension \leq 1mm, tolerance should be \pm 0.2mm; outline dimension >1mm and \leq 5mm, tolerance should be \pm 0.3mm; outline dimension >5mm, tolerance should be \pm 0.4mm.

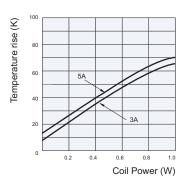
- 2) The tolerance without indicating for PCB layout is always ±0.1mm.
- 3) The width of the gridding is 2.54mm.

CHARACTERISTIC CURVES

ENDURANCE CURVE



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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