HF42F(JZC-42F)

SUBMINIATURE INTERMEDIATE POWER RELAY



File No.:E133481



File No.:40012203



File No.:R2034199

CONTACT DATA



File No.:CQC02001001939



Features

- 5A switching capability
- TV-3 125VAC approved by UL standard
- 2 Form A slim configuration
- Wash tight and flux proofed types available
- Environmental friendly product (RoHS compliant)
- Outline Dimensions: (24.0 x 12.0 x 24.8) mm

Contact arrangement	2A
Contact resistance	100mΩ (at 1A 6VDC)
Contact material	AgSnO2, AgCdO
Contact rating (Res. load)	5A 250VAC/30VDC
Max. switching voltage	250VAC / 30VDC
Max. switching current	5A

Contact resistance	100mΩ (at 1A 6VDC)
Contact material	AgSnO ₂ , AgCdO
Contact rating (Res. load)	5A 250VAC/30VDC
Max. switching voltage	250VAC / 30VDC
Max. switching current	5A
Max. switching power	1250VA / 150W
Mechanical endurance	1 x 10°ops
Electrical endurance	1 x 10⁵ops

CHARACTERISTICS				
Insulation resistance		e	1000MΩ (at 500VDC)	
Dielectric strength	Betwee	n coil & contacts	4000VAC 1min	
	Between open contacts		1000VAC 1min	
	Between contact sets		2000VAC 1min	
Operate time (at nomi. volt.)		mi. volt.)	15ms max.	
Release time (at nomi. volt.)		omi. volt.)	10ms max.	
Humidity			5% to 85% RH	
Ambient temperature		re	-40°C to 70°C	
Shock resistance Functional Destructive		Functional	100m/s² (10g)	
		Destructive	1000m/s² (100g)	
Vibration resistance		9	10Hz to 55Hz	
Termination			PCB	
Unit weight			Approx. 14.5g	
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	530mW

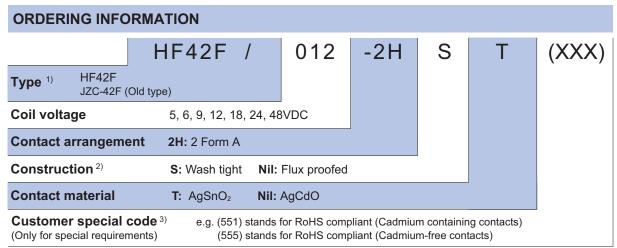
COIL DATA at 23°C				
Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. Allowable Voltage VDC	Coil Resistance Ω
5	3.75	0.25	6.5	47 x (1±10%)
6	4.50	0.30	7.8	68 x (1±10%)
9	6.75	0.45	11.7	155 x (1±10%)
12	9.00	0.60	15.6	270 x (1±10%)
18	13.5	0.90	23.4	620 x (1±10%)
24	18.0	1.20	31.2	1080 x (1±10%)
48	36.0	2.40	62.4	4400 x (1±10%)

SAFETY APPROVAL RATINGS		
	5A 250VAC	
UL&CUR	5A 30VDC	
	TV-3 125VAC	
TÜV	5A 250VAC COSØ =1	
	5A 30VDC L/R=0	

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



2007 Rev. 2.00



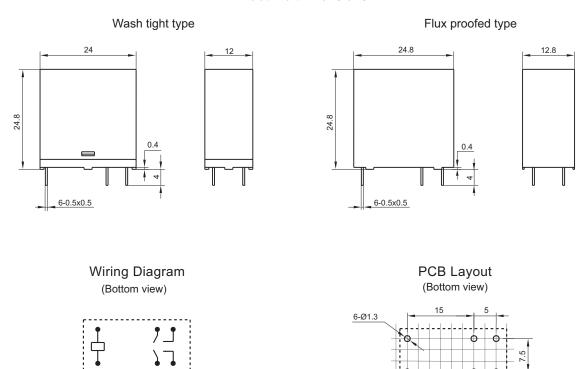
Notes: 1) We have now gradually updated our ordering information. We suggest new type should be selected. If necessary, old type can be kept for some period for the old customers.

- 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) HF42F 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.

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

Outline Dimensions

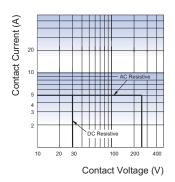


Remark: 1) In case of no tolerance shown in outline dimension: outline dimension \leq 1mm, tolerance should be \pm 0.2mm; outline dimension >1mm and \leq 5mm, tolerance should be \pm 0.3mm; outline dimension >5mm, tolerance should be \pm 0.4mm.

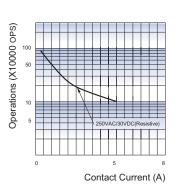
- 2) The tolerance without indicating for PCB layout $\,$ is always $\pm 0.1 mm$.
- 3) The width of the gridding is 2.5mm.

CHARACTERISTIC CURVES

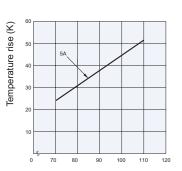
MAXIMUM SWITCHING POWER



ENDURANCE CURVE



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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