HF32F-G

SUBMINIATURE INTERMEDIATE POWER RELAY



CONTACT DATA

Contact arrangement	1A
Contact resistance	100mΩ (at 1A 6VDC)
Contact material	AgSnO ₂ , AgNi, AgCdO
Contact rating (Res. load)	10A 250VAC 10A 30VDC
Max. switching voltage	250VAC / 30VDC
Max. switching current	10A
Max. switching power	2500VA / 300W
Mechanical endurance	1 x 10 ⁶ 0PS
Electrical endurance	1 x 10 ⁵ 0PS

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Features

- 10A switching capability
- 1 Form A configuration
- Subminiature, standard PCB layout
- Wash tight and flux proofed types available
- Environmental friendly product (RoHS compliant)
- Outline Dimensions: (18.4 x 10.2 x 15.3) mm

COIL

Coil power	450mW

COIL DATA at 23°C				
Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. Allowable Voltage VDC	Coil Resistance Ω
3	2.25	0.15	3.9	20 x (1±10%)
5	3.75	0.25	6.5	55 x (1±10%)
6	4.50	0.30	7.8	80 x (1±10%)
9	6.75	0.45	11.7	180 x (1±10%)
12	9.00	0.60	15.6	320 x (1±10%)
18	13.5	0.90	23.4	720 x (1±10%)
24	18.0	1.20	31.2	1280 x (1±10%)
48	36.0	2.40	62.4	5120 x (1±10%)

CHARACTERISTICS			
Insulation resistance		1000MΩ (at 500VDC)	
Dielectric strength	Between coil & contacts	2500VAC 1min	
	Between open contacts	1000VAC 1min	
Operate time (at nomi. volt.)		8ms max.	
Release time (at nomi. volt.)		5ms max.	
Humidity		35% to 95% RH	
Ambient temperature		-40°C to 70°C	
Shock	Functional	98m/s ²	
resistance	Destructive	980m/s ²	
Vibration resistance		10Hz to 55Hz 1.5mm DA	
Termination		PCB	
Unit weight		Approx. 6g	
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.



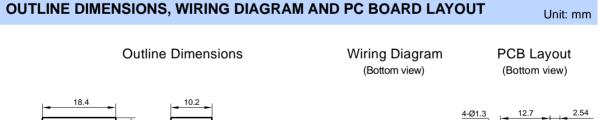
SAFETY APPROVAL RATINGS

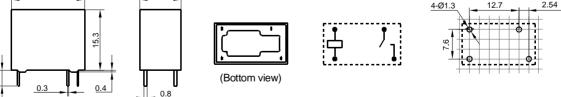
	10A 277VAC / 250VDC at 85°C
UL&CUL	12A 125VAC at 85°C
	10A 30VDC at 85°C
	10A 250VDC at 85°C
VDE	12A 125VAC at 85°C
	10A 30VDC at 85°C

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

ORDERING INFORMATION HF32F-G / 012 -H S 3 Type **Coil voltage** 3, 5, 6, 9, 12, 18, 24, 48VDC Contact arrangement H: 1 Form A Z: 1 Form C Construction¹⁾ S: Wash tight Nil: Flux proofed **Contact material** T: AgSnO₂ Nil: AgCdO 3: AgNi **Customer special code**

Notes: 1) 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.





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

3) The width of the gridding is 2.54mm.

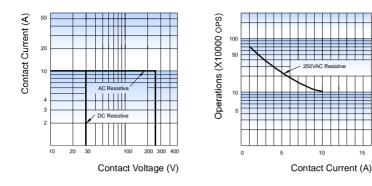
CHARACTERISTIC CURVES

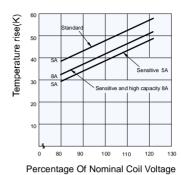
MAXIMUM SWITCHING POWER

EDURANCE CURVE

15

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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