HF32FA-T

SUBMINIATURE INTERMEDIATE HIGH TEMPERATURE POWER RELAY









File No.:40006182

Features

- High temperature: 105°C
- 5A switching capability
- 1 Form A configuration
- Creepage/clearance distance>8mm
- 5kV dielectric strength (between coil and contacts)
- Meeting VDE 0700, 0631 reinforce insulation
- Product in accordance to IEC 60335-1 available
- Environmental friendly product (RoHS compliant)
- Outline Dimensions: (17.6 x 10.1 x 12.3) mm

CONTACT DATA	
Contact arrangement	1A
Contact resistance	70mΩ (at 1A 6VDC)
Contact material	AgNi
Contact rating (Res. load)	5A 250VAC
	5A 30VDC
Max. switching voltage	250VAC/30VDC
Max. switching current	5A
Max. switching power	1250VA/150W
Mechanical endurance	1 x 10 ⁶ ops
Electrical endurance	1 x 10 ⁵ ops

CHAR	ACTERISTICS			
Insulation resistance		1000MΩ (at 500VDC)		
etranath	Between coil & contacts	5000VAC 1min		
	Between open contacts	1000VAC 1min		
Operate time (at nomi. volt.)		8ms max.		
Release time (at nomi. volt.)		4ms max.		
Humidity		35% to 95% RH		
Ambient temperature		-40°C to 105°C		
Shock	Functional	98m/s ²		
resistance	Destructive	980m/s ²		
Vibration	resistance	10Hz to 55Hz 1.65mm DA		
Termination		PCB		
Unit weight		Approx.4.6g		
Construction		Plastic sealed, 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	Sensitive: 200mW

COIL DATA at 23°C

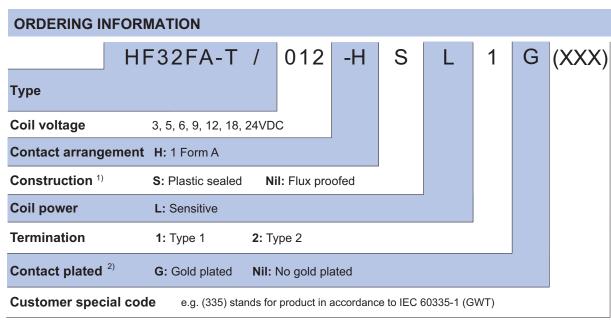
Sensitive type

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. Allowable Voltage VDC	Coil Resistance Ω
3	2.25	0.15	5.1	45 x (1±10%)
5	3.75	0.25	8.5	125 x (1±10%)
6	4.50	0.30	10.2	180 x (1±10%)
9	6.75	0.45	15.3	400 x (1±10%)
12	9.00	0.60	20.4	720 x (1±10%)
18	13.5	0.90	30.6	1600 x (1±10%)
24	18.0	1.20	40.8	2800 x (1±10%)

SAFETY APPROVAL RATINGS				
UL/CUL	5A 250VAC at 105°C			
VDE	5A 250VAC at 105°C 3A 400VAC at 105°C			

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





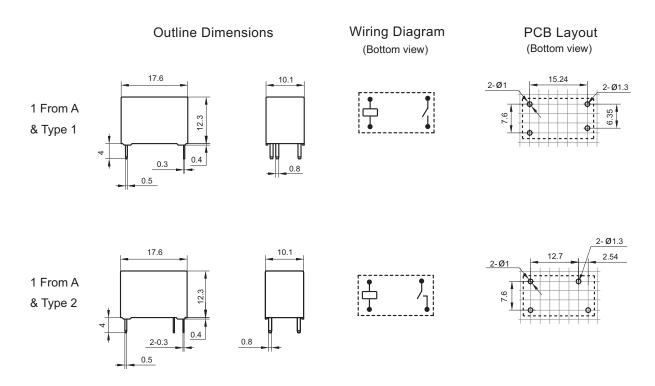
Notes: 1) Under the ambience with dangerous gas like H₂S, SO₂ or NO₂, plastic sealed type is recommended; Please test the relay in real applications. If the ambience allows, flux proofed type is preferentially recommended.

If water cleaning is required after the relay is assembled on PCB, please contact us for suggestion about suitable parts.

2) For gold plated type, the min. switching current and min. switching voltage is 10mA $\,$ 5VDC.

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

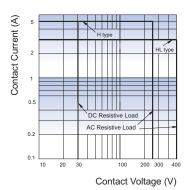


Remark: 1) In case of no tolerance shown in outline dimension: outline dimension \leq 1mm, tolerance should be \pm 0.2mm; outline dimension >1mm and \leq 5mm, tolerance should be \pm 0.3mm; outline dimension >5mm, tolerance should be \pm 0.4mm.

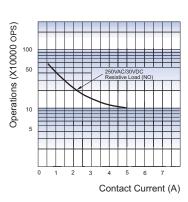
- 2) The tolerance without indicating for PCB layout $\,$ is always $\pm 0.1 mm$.
- 3) The width of the gridding is 2.54mm.

CHARACTERISTIC CURVES

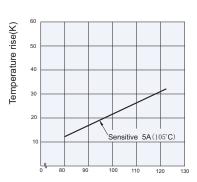
MAXIMUM SWITCHING POWER



ENDURANCE CURVE



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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