HF32FA-T

SUBMINIATURE INTERMEDIATE HIGH TEMPERATURE POWER RELAY



File No.:E134517



File No.:40006182



File No.:CQC09002028689





UL insulation system: Class F Meeting VDE 0700, 0631 reinforce insulation

Creepage/clearance distance>8mm

Product in accordance to IEC 60335-1 available

5kV dielectric strength (between coil and contacts)

Environmental friendly product (RoHS compliant) Outline Dimensions: (17.6 x 10.1 x 12.3) mm

CONTACT DATA	
Contact arrangement	1A
Contact resistance	70mΩ max.(at 1A 6VDC)
Contact material	AgNi
Contact rating (Page load)	5A 250VAC
Contact rating (Res. load)	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

at 1A 6VDC) AgNi	
5A 250VAC	
5A 250VAC 5A 30VDC	
250VAC/30VDC	
5A	
1250VA/150W	
1 x 10 ⁶ ops	
1 x 10 ⁵ ops	

CHARACTERISTICS						
Insulation resistance		1000MΩ (at 500VDC)				
Dielectric strength	Between coil & contac	ts 5000VAC 1min				
	Between open contac	ts 1000VAC 1min				
Operate time (at nomi. volt.)		8ms max.				
Release time (at nomi. volt.)		4ms max.				
Humidity		5% to 85% RH				
Ambient temperature		-40°C to 105°C				
Shock	Functional	98m/s ²				
resistanc	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: Approx. 200mW

at 23°C

COIL DATA Sensitive type

Features

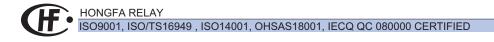
 High temperature: 105°C 5A switching capability

1 Form A configuration

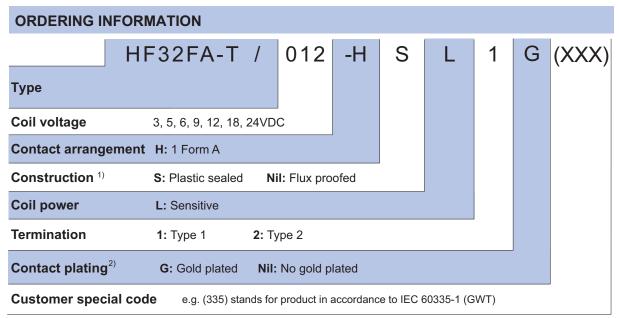
Nominal Voltage VDC	Pick-up Voltage VDC max.	Drop-out Voltage VDC min.	Max. Allowable Voltage VDC	Coil Resistance Ω
3	2.25	0.15	5.1	45 x (1±10%)
5	3.75	0.25	8.5	125 x (1±10%)
6	4.50	0.30	10.2	180 x (1±10%)
9	6.75	0.45	15.3	400 x (1±10%)
12	9.00	0.60	20.4	720 x (1±10%)
18	13.5	0.90	30.6	1600 x (1±10%)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

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

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



2012 Rev. 1.01

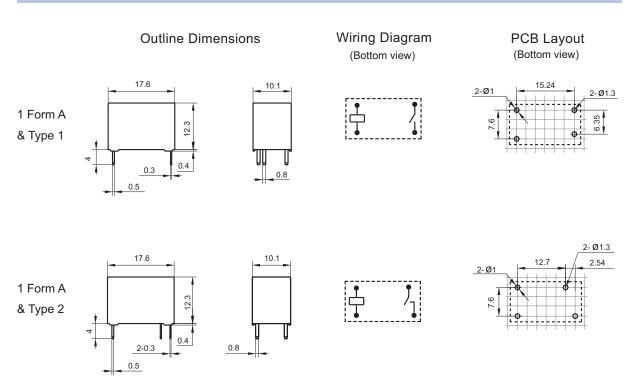


Notes: 1) Under the ambience with dangerous gas like H₂S, SO₂ or NO₂, plastic sealed type is recommended; Please test the relay in real applications. If the ambience allows, flux proofed type is preferentially recommended.
If water cleaning is required after the relay is assembled on PCB, please contact 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



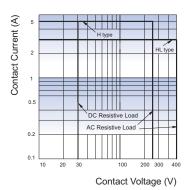
Remark: 1) In case of no tolerance shown in outline dimension: outline dimension \leq 1mm, tolerance should be \pm 0.2mm; outline dimension >1mm and \leq 5mm, tolerance should be \pm 0.3mm; outline dimension >5mm, tolerance should be \pm 0.4mm.

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

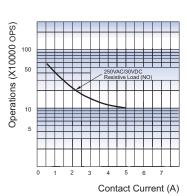
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CHARACTERISTIC CURVES

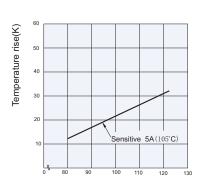
MAXIMUM SWITCHING POWER



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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