HF32FA-G

SUBMINIATURE INTERMEDIATE POWER RELAY



File No :F134517



File No.:40006182





Features

- 10A switching capability
- Creepage/clearance distance>8mm
- 5kV dielectric strength (between coil and contacts)
- UL insulation system: Class F
- Meets 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

(cac)

File No.:CQC09002028689

CONTACT DATA

Contact arrangement	1A
Contact resistance	70mΩ max.(at 1A 6VDC)
Contact material	AgSnO ₂
Contact rating (Res. Load)	10A 250VAC
Max. switching voltage	250VAC
Max. switching current	10A
Max. switching power	2500VA
Mechanical endurance	1 x 10 ⁶ ops
Electrical endurance	1 x 10 ⁴ ops

CHARACTERISTICS

Insulation	res	sistance	1000MΩ (at 500VDC)	
Dielectric	Between coil & contacts		5000VAC 1min	
strength B	Between open contacts		1000VAC 1min	
Operate time (at nomi. volt.)		(at nomi. volt.)	8ms max.	
Release time (at nomi. volt.)		(at nomi. volt.)	4ms max.	
Humidity			5% to 85% RH	
Ambient t	em	perature	-40°C to 85°C	
Shock		Functional	98m/s ²	
resistance	Э	Destructive	980m/s ²	
Vibration	res	stance	10Hz to 55 Hz 1.65mm DA	
Termination			PCB	
Unit weig	ht		Approx.4.6g	
Construct	ion		Plastic sealed, Flux proofed	

Notes: 1) The vibration resistance should be 0.6mm,10Hz to 55Hz for NC contact. Along with the length direction.

- 2) The data shown above are initial values.
- 3) Please find coil temperature curve in the characteristic curves below.

COIL	
Coil power	Standard: Approx. 450mW;
	Sensitive: Approx. 230mW

COIL DATA

at 23°C

Standard type

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	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%)

Sensitive type

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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	38 x (1±10%)
5	3.75	0.25	8.5	108 x (1±10%)
6	4.50	0.30	10.2	155 x (1±10%)
9	6.75	0.45	15.3	350 x (1±10%)
12	9.00	0.60	20.4	620 x (1±10%)
18	13.5	0.90	30.6	1390 x (1±10%)
24	18.0	1.20	40.8	2480 x (1±10%)
48	36.0	2.40	81.6	9920 x (1±10%)

SAFETY APPROVAL RATINGS

UL/CUL	10A 250VAC at 85°C
	15A 120VAC at 70°C
	B300 at 40°C
VDE	10A 250VAC at 85°C

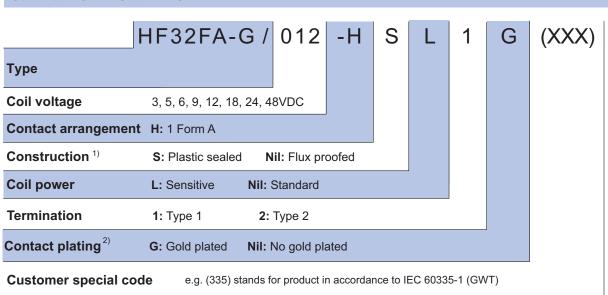
Notes: Only some typical ratings are listed above. If more details are required, please contact us.



ISO9001, ISO/TS16949 , ISO14001, OHSAS18001, IECQ QC 080000 CERTIFIED

2012 Rev. 1.01

ORDERING INFORMATION



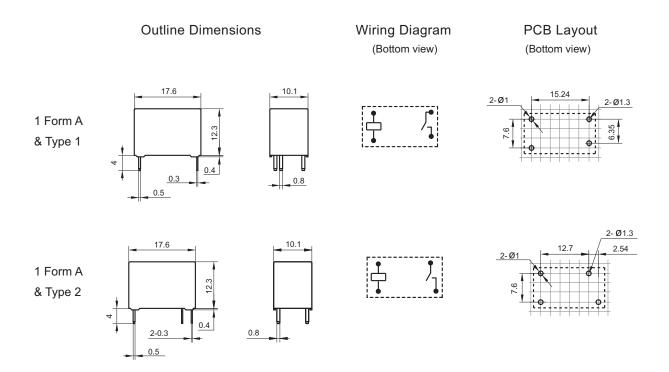
Notes: 1) Under the ambience with dangerous gas like H₂S, SO₂ or NO₂, plastic sealed type is recommended; Please test the relay in real applications. If the ambience allows, flux proofed type is preferentially recommended.

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

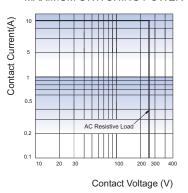


Remark: 1) In case of no tolerance shown in outline dimension: outline dimension \leq 1mm, tolerance should be \pm 0.2mm; outline dimension >1mm and \leq 5mm, tolerance should be \pm 0.3mm; outline dimension >5mm, tolerance should be \pm 0.4mm.

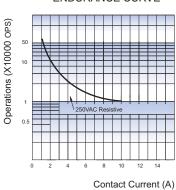
- 2) The tolerance without indicating for PCB layout is always ± 0.1 mm.
- 3) The width of the gridding is 2.54mm.

CHARACTERISTIC CURVES

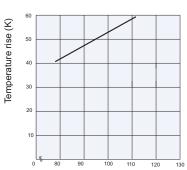
MAXIMUM SWITCHING POWER



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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