HF32FA-G

SUBMINIATURE INTERMEDIATE POWER RELAY





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

(CQC)

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
	1 x 10 ⁴ ops (10A 250VAC,
Electrical endurance	Resistive load, at 85℃, 1s on 9s off)

CHARACTERISTICS

Insulation	res	sistance	1000MΩ (at 500VDC)	
Dielectric E		tween coil & contacts	5000VAC 1min	
strength	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	
Snock		Functional	98m/s ²	
		Destructive	980m/s ²	
Vibration resistance*		istance*	10Hz to 55 Hz 1.65mm DA	
Termination			PCB	
Unit weight			Approx.4.6	
Construction			Plastic sealed, Flux proofed	

- Notes: 1) *Index is not in relay 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. Voltage VDC ¹⁾	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 ²⁾	36.0	2.40	62.4	5120 x (1±10%)

Sensitive type

	1) 0			
Nominal Voltage VDC	Pick-up Voltage VDC max.	Drop-out Voltage VDC min.	Max. Voltage VDC ¹⁾	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 ²⁾	36.0	2.40	81.6	9920 x (1±10%)

Notes: 1) Maximum voltage refers to the maximum voltage which relay

coil could endure in a short period of time.
2) For products with rated voltage ≥ 48V, measures should be taken to prevent coil overvoltage in order to protect coil in test and application (eg. Connect diodes in parallel).

SAFETY APPROVAL RATINGS

UL/CUL	10A 250VAC at 85°C B300
VDE	10A 250VAC at 85°C

Notes: 1) All values unspecified are at room temperature.

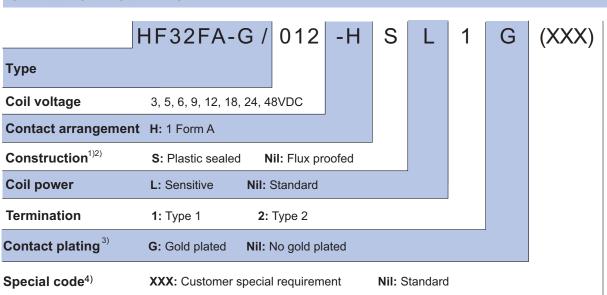
2) Only typical loads are listed above. Other load specifications can be available upon request.



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

2015 Rev. 1.02

ORDERING INFORMATION

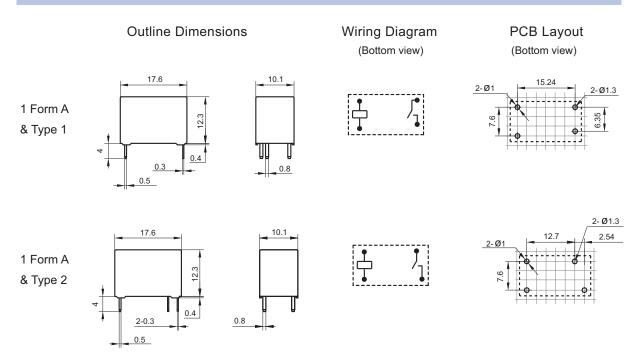


Notes: 1) We recommend flux proofed types for a clean environment (free from contaminations like H₂S, SO₂, NO₂, dust, etc.).

We suggest to choose plastic sealed types and validate it in real application for an unclean environment (with contaminations like H₂S, SO₂, NO₂, dust, etc.).

- 2) Contact is recommended for suitable condition and specifications if water cleaning or surface process is involved in assembling relays on PCB.
- 3) For gold plated type, the min. switching current and min. switching voltage is 10mA 5VDC.
- 4) The customer special requirement express as special code after evaluating by Hongfa. e.g.(335) stands for product in accordance to IEC 60335-1 (GWT).

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT Unit: mm

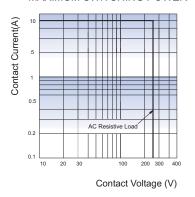


Remark: 1) In case of no tolerance shown in outline dimension: outline dimension \leq 1mm, tolerance should be \pm 0.2mm; outline dimension >1mm and \leq 5mm, tolerance should be \pm 0.3mm; outline dimension >5mm, tolerance should be \pm 0.4mm.

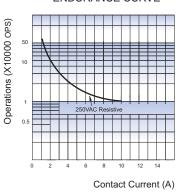
- 2) The tolerance without indicating for PCB layout is always ± 0.1 mm.
- 3) The width of the gridding is 2.54mm.

CHARACTERISTIC CURVES

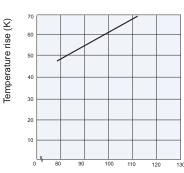
MAXIMUM SWITCHING POWER



ENDURANCE CURVE



TEMPERATURE RISE



Percentage Of Nominal Coil Voltage

Test conditions: Flux proofed, at $85\,^\circ\!\!\mathrm{C}$

5s on 5s off

Disclaimer

The specification is for reference only. See to "Terminology and Guidelines" for more information. Specifications 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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