HF32F-G

SUBMINIATURE INTERMEDIATE POWER RELAY

c **91** US

File No.: E134517



File No.: 40012204



File No.: CQC12002076528



Features

- 10A switching capability
- 1 Form A configuration
- Subminiature, standard PCB layout
- Plastic sealed and flux proofed types
- Product in accordance to IEC 60335-1 available
- UL insulation system: Class F
- Outline Dimensions: (18.4 x 10.2 x 15.3) mm

CONTACT DATA	
Contact arrangement	1A
Contact resistance	100mΩ max.(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	1×10^5 OPS (10A 250VAC, Resistive load, Room temp., 1s on 9s off)

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		5% to 85% RH		
Ambient temperature		-40°C to 85°C		
Shock resistance	Functional	98m/s ²		
	Destructive	980m/s ²		
Vibration resistance		10Hz to 55Hz 1.5mm DA		
Termination		PCB		
Unit weight		Approx. 6g		
Construction		Plastic sealed, Flux proofed		

Notes:1) The data shown above are initial values.

COIL	
Coil power	Approx. 450mW

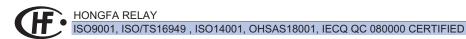
COIL	ATA			at 23°C
Nominal Voltage VDC	Pick-up Voltage VDC max.	Drop-out Voltage VDC min.	Max. Voltage VDC *	Coil Resistance Ω
3	2.25	0.15	3.9	20 x (1±10%)
5	3.75	0.25	6.5	55 x (1±10%)
6	4.50	0.30	7.8	80 x (1±10%)
9	6.75	0.45	11.7	180 x (1±10%)
12	9.00	0.60	15.6	320 x (1±10%)
18	13.5	0.90	23.4	720 x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

Notes: *Maximum voltage refers to the maximum voltage which relay coil could endure in a short period of time.

SAFETY APPROVAL RATINGS					
	10A 277VAC / 250VAC / 30VDC at 85°C				
UL/CUL	12A 125VAC at 85°C				
	10A 250VAC at 85°C				
VDE	4A 400VAC at 85°C				

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

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

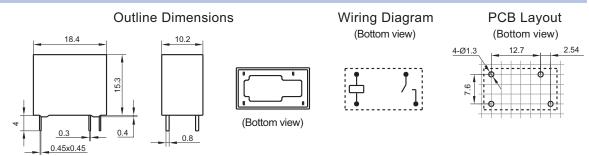


ORDERING INFORMATION HF32F-G 012 - H S 3 Type Coil voltage 3, 5, 6, 9, 12, 18, 24, 48VDC Contact arrangement H: 1 Form A Construction 1) S: Plastic sealed Nil: Flux proofed **Contact material** T: AgSnO₂ 3: AgNi Nil: AgCdO Special code³⁾ XXX: Customer special requirement Nil: Standard

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 is preferentially recommended.

- Contact is recommended for suitable condition and specifications if water cleaning or surface process is involved in assembling relays on PCB.
- 3) 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).

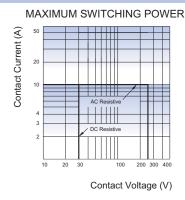
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT Unit: mm

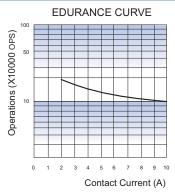


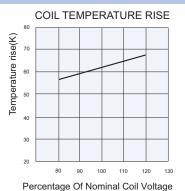
Remark: 1) In case of no tolerance shown in outline dimension: outline dimension ≤1mm, tolerance should be ±0.2mm; outline dimension >1mm and ≤5mm, tolerance should be ±0.3mm; outline dimension >5mm, tolerance should be ±0.4mm.

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

CHARACTERISTIC CURVES







Test conditions: Resistive load, 10A 250VAC, Room temp., 1s on 9s off **Test conditions:** 10A 250VAC Mounting distance: 10mm

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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