HF32F-G

SUBMINIATURE INTERMEDIATE POWER RELAY

c **91** us

File No.: E134517



File No.: 40012204



File No.: CQC08002027011



Features

- 10A switching capability
- 1 Form A configuration
- Subminiature, standard PCB layout
- Plastic sealed and flux proofed types available
- UL insulation system: Class F
- Environmental friendly product (RoHS compliant)
- 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 ops
Electrical endurance	1 x 10 ⁵ ops

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	Functional	98m/s ²			
resistance	Destructive	980m/s ²			
Vibration resistance		10Hz to 55Hz 1.5mm DA			
Termination		PCB			
Unit weight	t	Approx. 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.
 3) In order to secure better electrical endurance, we recommend
 - not to use this relay under high temperature.

COIL	
Coil power	Approx. 450mW

COIL D	DATA at			at 23°C
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%)

SAFETY APPROVAL RATINGS							
	10A 277VAC / 250VAC / 30VDC	at 85°C					
UL/CUL	12A 125VAC	at 85°C					
	TV-5 120VAC	at 40°C					
	10A 250VAC	at 85°C					
VDE	4A 400VAC	at 85°C					

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

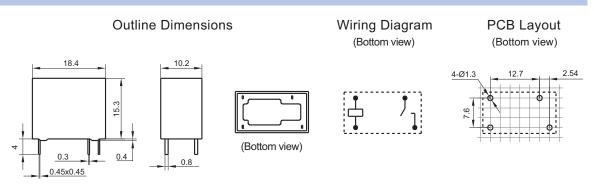


ORDERING INFORMATION HF32F-G 012 - H Type Coil voltage 3, 5, 6, 9, 12, 18, 24, 48VDC Contact arrangement H: 1 Form A Construction 1) S: Plastic sealed Nil: Flux proofed **Contact material** Nil: AgCdO T: AgSnO₂ 3: AgNi e.g. (356) stands for product in accordance to IEC 61249-2-21 **Customer special code**

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.

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

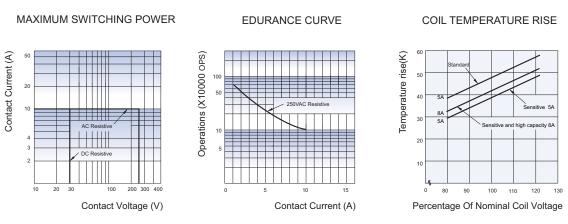
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT



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



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.

© Xiamen Hongfa Electroacoustic Co., Ltd. All rights of Hongfa are reserved.

Unit: mm

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for General Purpose Relays category:

Click to view products by Hongfa manufacturer:

Other Similar products are found below:

```
APF30318 JVN1AF-4.5V-F PCN-105D3MHZ 5JO-10000S-SIL 5JO-1000CD-SIL 5JO-400CD-SIL LY2S-AC220/240 LYQ20DC12
6031007G 6131406HQ 6-1393099-3 6-1393099-8 6-1393122-4 6-1393123-2 6-1393767-1 6-1393843-7 6-1415012-1 6-1419102-2 6-
1423698-4 6-1608051-6 6-1608067-0 6-1616170-6 6-1616248-2 6-1616282-3 6-1616348-2 6-1616350-1 6-1616350-8 6-1616358-7 6-
1616359-9 6-1616360-9 6-1616931-6 6-1617039-1 6-1617052-1 6-1617090-2 6-1617090-5 6-1617347-5 6-1617353-3 6-1617801-8 6-
1617802-2 6-1618107-9 6-1618248-4 M83536/1-027M CX-4014 MAHC-5494 MAVCD-5419-6 703XCX-120A 7-1393100-5 7-1393111-7
7-1393144-5 7-1393767-8
```