勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-34970699 胜特力电子(深圳) 86-755-83298787 Http://www. 100y. com. tw

# HF32F-G

# SUBMINIATURE INTERMEDIATE POWER RELAY



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	MI MI TONI COMITIN
Contact arrangement	1A
Contact resistance	100mΩ max.(at 1A 6VDC)
Contact material	AgSnO <sub>2</sub> , 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 <sup>6</sup> 0PS
Electrical endurance	$1 \times 10^5$ OPS (10A 250VAC, Resistive load, Room temp., 1s on 9s off)

CHARA	CTERISTICS	MMM
Insulation i	esistance	1000MΩ (at 500VDC)
Dielectric	Between coil & contacts	2500VAC 1mir
strength	Between open contacts	1000VAC 1mir
Operate tir	ne (at nomi. volt.)	8ms max
Release tir	ne (at nomi. volt.)	5ms max
Humidity	MMM. TO COM	5% to 85% RH
Ambient te	mperature	-40°C to 85°C
Shock	Functional	98m/s
resistance	Destructive	980m/s
Vibration re	esistance	10Hz to 55Hz 1.5mm DA
Terminatio	n www.	CONTRACT PCE
Unit weigh	I WW.100	Approx. 6g
Construction	on WWW.100	Plastic sealed Flux proofed

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

COIL	VW.100 Y	COMIT	-31	
Coil power	WW.100	COM.	- 1	Approx. 450mW

COIL	COIL DATA			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.

SAFE	TY A	PPROVA	AL RATINGS
1	<7 L		- X VV

27		
W.1007.	10A 277VAC / 250VAC / 30VDC	at 85°C
UL/CUL	12A 125VAC	at 85°C
VDE	10A 250VAC	at 85°C
	4A 400VAC	at 85°C

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

2) Only typical loads are listed above. Other load specifications  $\,$ WWW.100Y.COM can be available upon request.

勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-34970699 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw

**Contact material** 

Special code<sup>3)</sup>

# ORDERING INFORMATION HF32F-G / 012 -H S 3 (XXX) 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

Notes: 1) Under the ambience with dangerous gas like H<sub>2</sub>S, SO<sub>2</sub> or NO<sub>2</sub>, plastic sealed type is recommended; please test the relay in real applications. If the ambience allows, flux proofed is preferentially recommended.

3: AgNi

XXX: Customer special requirement

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

Nil: AgCdO

Nil: Standard

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

Outline Dimensions

Wiring Diagram
(Bottom view)

(Bottom view)

(Bottom view)

(Bottom view)

(Bottom view)

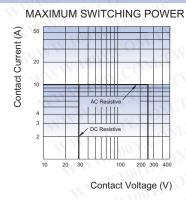
Remark: 1) In case of no tolerance shown in outline dimension: outline dimension ≤1mm, tolerance should be ±0.2mm; outline dimension >1mm and ≤5mm, tolerance should be ±0.3mm; outline dimension >5mm, tolerance should be ±0.4mm.

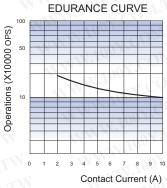
2) The tolerance without indicating for PCB layout is always ±0.1mm.

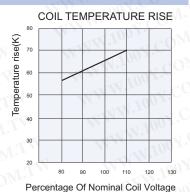
T: AgSnO<sub>2</sub>

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.

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