HF46FB

SUBMINIATURE INTERMEDIATE POWER RELAY

c **91** us

File No.: E134517



File No.: 40049080



File No.: CQC17002177913



Features

- 5A switching capability
- 8kV impulse withstand voltage (between coil and contacts)
- Meets reinforce insulation
- width 7mm, Suitable for PCB intensive installation
- UL insulation system: Class F

CONTACT DATA			
Contact arrangement	1C		
Contact resistance ¹⁾	100mΩ max. (at 1A 6VDC)		
Contact material	AgNi		
Contact rating (Res. load)	5A 250VAC		
Max. switching voltage	250VAC		
Max. switching current	5A		
Max. switching power	1250VA		
Mechanical endurance	5 x 10 ⁶ ops		
Electrical endurance	5 x 10 ⁴ ops (CO:5A 250VAC, Resistive load,		
	at 85°C, 3s on 3s off)		

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

CHARACTERISTICS						
Insulation resistance		1000MΩ (at 500VDC)				
Dielectric	Between	coil & contacts	4000VAC 1min			
strength	Between open contacts		1000VAC 1min			
Surge voltage (between coil & movable contacts)		8kV (1.2 /50μs)				
Operate time (at rated. volt.)		10ms max.				
Release time (at rated. volt.)		10ms max.				
Shock resistance		Functional	98m/s ²			
		Destructive	980m/s ²			
Vibration resistance		10Hz to 55Hz 1.5mm DA				
Humidity		5% to 85% RH				
Ambient temperature		-40°C to 85°C				
Termination		PCB				
Unit weight		Approx. 4.5g				
Construction		Plastic sealed				

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

COIL	
Coil power	Approx. 360mW

COIL DATA				at 23°C
Nominal Voltage VDC	Pick-up Voltage VDC max. ¹⁾	Drop-out Voltage VDC min. ¹⁾	Max. Voltage VDC ²⁾	Coil Resistance Ω
3	2.25	0.18	3.9	25 x (1±10%)
5	3.75	0.25	6.5	69 x (1±10%)
6	4.50	0.30	7.8	100 x (1±10%)
9	6.75	0.45	11.7	225 x (1±10%)
12	9.00	0.60	15.6	400 x (1±10%)
18	13.5	0.90	23.4	900 x (1±10%)
24	18.0	1.20	31.2	1600 x (1±10%)

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

SAFFTY APPROVAL RATINGS

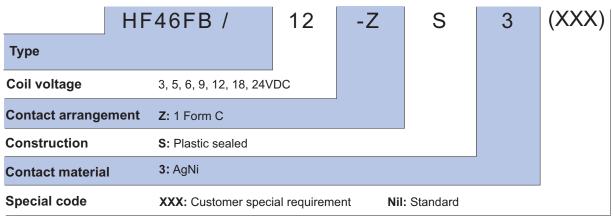
2) Maximum voltage refers to the maximum voltage which relay coil could endure in a short period of time.

OAI ETT ALTROVAL RATINGO		
UL/CUL		
VDE	5A 250VAC 85°C	

Notes: 1)Only typical loads are listed above. Other load specifications can be available upon request.



ORDERING INFORMATION



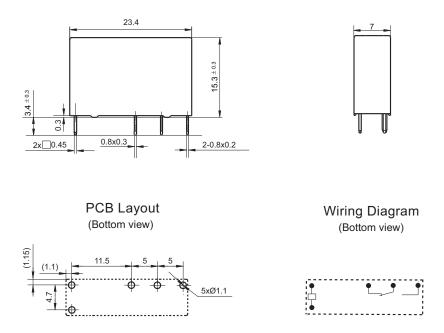
Notes: 1)The customer special requirement express as special code after evaluating by Hongfa. e.g.(335) stands for product in accordance to IEC 60335-1 (GWT).

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

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

Outline Dimensions



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 ±0.1mm.

Disclaime

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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