HF140FF(JZX-140FF)

MINIATURE INTERMEDIATE POWER RELAY



File No.:E134517



File No.:R50055991



File No.:CQC02001001940



Features

- 10A switching capability
- 5kV dielectric strength (between coil and contacts)
- 1.5mm contact gap available
- Sockets available
- Wash tight and flux proofed types available
- Environmental friendly product (RoHS compliant)
- Outline Dimensions: (29.0 x 13.0 x 26.3) mm

2A, 2C
50mΩ (at 1A 24VDC)
AgSnO ₂ , AgNi, AgCdO
5A 250VAC
10A 250VAC
8A 30VDC
250VAC / 30VDC
10A
2500VAC / 240W
Standard: 1 x 10 ⁷ ops
W type: 5X10⁵ops
1 x 10⁵ops

CHAR	ACTE	RISTICS	
Insulation resistance		1000MΩ (at 500VDC)	
	Between coil & contacts		5000VAC 1min
Dielectric strength	Between contacts sets		3000VAC 1min
Suengui	Between open contacts		W type:3000VAC 1min Standard:1000VAC 1min
Surge voltage (between coil & contacts)		10kV(at 1.2 x 50 μs)	
Operate time (at nomi. volt.)		15ms max.	
Release time (at nomi. volt.)		5ms max.	
Humidity		98% RH, +40°C	
Ambient temperature		-40°C to 85°C	
Shock resistance		Functional	100m/s² (10g)
		Destructive	1000m/s² (100g)
Vibration resistance		10Hz to 55Hz 1.5mmDA	
Termination		PCB	
Unit weight		Approx. 18g	
Construction		Wash tight, Flux proofed	

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

2) Please find coil temperature curve in the characteristic curves below.

COIL	
Coil power	Standard: Approx. 530mW
	W type: Approx. 800mW

COIL DATA at 23°C

Standard Type

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. Allowable Voltage VDC	Coil Resistance Ω
3	2.25	0.3	3.9	17 x (1±10%)
5	3.75	0.5	6.5	47 x (1±10%)
6	4.50	0.6	7.8	68 x (1±10%)
9	6.75	0.9	11.7	160 x (1±10%)
12	9.00	1.2	15.6	275 x (1±10%)
18	13.5	1.8	23.4	620 x (1±10%)
24	18.0	2.4	31.2	1100 x (1±10%)
48	36.0	4.8	62.4	4170 x (1±10%)
60	45.0	6.0	78.0	7000 x (1±10%)



ISO9001、ISO/TS16949 、ISO14001 、OHSAS18001 CERTIFIED

查询"HF140FF/012-2Z\$WXXX"供应商

COIL DATA

at 23°C

W Type

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. Allowable Voltage VDC	Coil Resistance Ω
3	2.25	0.3	3.9	11.3 x (1±10%)
5	3.75	0.5	6.5	31 x (1±10%)
6	4.50	0.6	6.6	45 x (1±10%)
9	6.75	0.9	9.9	101 x (1±10%)
12	9.00	1.2	13.2	180 x (1±10%)
18	13.5	1.8	19.8	405 x (1±10%)
24	18.0	2.4	26.4	720 x (1±10%)
48	36.0	4.8	52.8	2880 x (1±10%)
60	45.0	6.0	66.0	4500 x (1±10%)

Notes: When require pick-up voltage < 75% of nominal voltage, special order allowed.

SAFETY APPROVAL RATINGS

	OAI ETT ALTROVALIMINOS		
UL&CUR	10A 250VAC		
	10A 30VDC		
	8A 30VDC		
	TV-3 125VAC		
	1/4 HP 240VAC		
	1/8HP 120VAC		
ΤÜV	5A 250VAC		
	5A 30VDC		

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

ORDERING INFORMATION

012 -2H HF140FF / S W HF140FF Type 1) JZX-140FF (Old type) Coil voltage 3,5,6,9,12,18,24, 48, 60VDC Contact arrangement 2H: 2 Form A 2Z: 2 Form C Construction 2) S: Wash tight Nil: Flux proofed **Contact Gap** Nil: Standard W: 1.5mm (Only for 2 Form A) **Contact material** Nil: AgCdO T: AgSnO₂ 3: AgNi **Contact plating** G: Gold plated Nil: No gold plated Insulation system F: Class F Nil: Class B Customer special code 3) e.g. (551) stands for RoHS compliant (Cadmium containing contacts) (Only for special requirements) (555) stands for RoHS compliant (Cadmium-free contacts)

Notes: 1) We have now gradually updated our ordering information. We suggest new type should be selected. If necessary, old type can be kept for some period for the old customers.

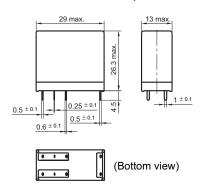
- 2) Under the ambience with dangerous gas like H₂S, SO₂ or NO₂, wash tight type is recommended; please test the relay in real applications. If the ambience allows, flux proofed is preferentially recommended.
- 3) HF140FF is an environmental friendly product. Please mark a special code (555) or (551) when ordering. (551) stands RoHS compliant with Cadmium contact; (555) stands for RoHS compliant with Cadmium-free contact.
- 4) Standard version is with black cover. Smoke dust cover is available.

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

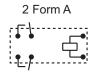
Unit: mm

Outline Dimensions

2 Form C & Flux proofed

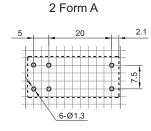


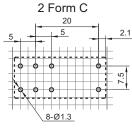
Wiring Diagram (Bottom view)





PCB Layout (Bottom view)



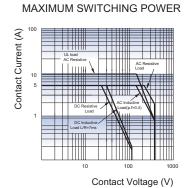


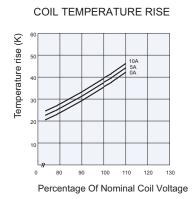
Remark: 1) In case of no tolerance shown in outline dimension: outline dimension \leq 1mm, tolerance should be \pm 0.2mm; outline dimension >1mm and \leq 5mm, tolerance should be \pm 0.3mm; outline dimension >5mm, tolerance should be \pm 0.4mm.

- 2) The tolerance without indicating for PCB layout is always ± 0.1 mm.
- 3) The width of the gridding is 2.5mm.

CHARACTERISTIC CURVES

ENDURANCE CURVE 500 500 250VAC/30VDC Resistive Load 100 250VAC Inductive Load (cose=0.4) 0 2 3 4 5 6 Contact Current (A)





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.

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