HF32F (JZC-32F)

SUBMINIATURE INTERMEDIATE POWER RELAY



File No.: E134517



File No.: 40012204



File No.: CQC02001001942



Features

COIL DATA

- 10A switching capability
- 1 Form A and 1 Form C configurations
- Subminiature, standard PCB layout
- Wash tight and flux proofed types available
- Environmental friendly product (RoHS compliant)
- Outline Dimensions: (18.4 x 10.2 x 15.3) mm

CONTACT DAT	A WW			
Contact arrangement	1A, 1C			
Contact resistance	100mΩ (at 1A 6VDC			
Contact material	AgNi, AgCdC			
	1.	1C		
Contact rating (Res. load)	Standard H: 5A 250VAC 5A 30VDC 10A 125VAC	Sensitive HL: 3A 250VAC 3A 30VDC HLQ: 8A 250VAC	Standard 3A 250VAC 3A 30VDC	
Max. switching voltage	E WW	250VA	C / 30VDC	
Max. switching current			10A	
Max. switching power 1250VA		VA / 150W		
Mechanical endurance		1x 10 ⁷ OPS		
Electrical endurance	1 x 10⁵ops			

CHAR	ACTERI	STICS	- Z FR	
Insulation	ulation resistance		1000MΩ (at 500VDC)	
Dielectric	Between coil & contacts		2500VAC 1min	
strength	Between open contacts		1000VAC 1min	
Operate ti	rate time (at nomi. volt.)		8ms max.	
Release time (at nomi. volt.)		5ms max.		
Humidity		35% to 95% RH		
Ambient temperature		Standard	-40°C to 70°C	
	emperature	High capacity	-40°C to 60°C	
	Functional	100m/s ² (10g)		
Shock resistance		Destructive	1000m/s ² (100g)	
Vibration resistance		10Hz to 55Hz 1.5mm DA		
Termination		PCB		
Unit weight		Approx. 6g		
Construction		Wash tight, Flux proofed		
Notes 1) Ti	a data abaum	a abaya ara initial	values	

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

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

COIL		
Coil power	Standard: 450mW;	Sensitive:200mW

Standard Type				(450mW)	
	Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	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%)

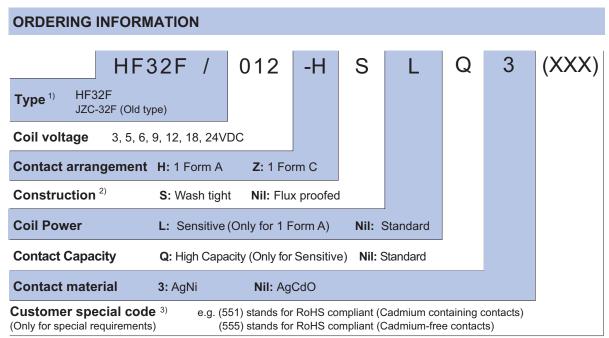
Sensitive Type (200mW, Only for 1 Form A)

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. Allowable Voltage VDC	Coil Resistance Ω
3	2.25	0.15	4.5	45 x (1±10%)
5	3.75	0.25	7.5	125 x (1±10%)
6	4.50	0.30	9.0	180 x (1±10%)
9	6.75	0.45	13.5	400 x (1±10%)
12	9.00	0.60	18.0	720 x (1±10%)
18	13.5	0.90	27.0	1600 x (1±10%)
24	18.0	1.20	36.0	2800 x (1±10%)



SAFETY APPROVAL RATINGS		
-	1 Form A	H type: 5A 250VAC /30VDC at 70°C
		10A 125VAC at 70°C
		1/10HP 125VAC at 70°C
		1/6HP 250VAC at 70°C
UL&CUR		10LRA /1.5FLA,120VAC at 70°C
UL&CUR		HL type: 3A 250VAC /30VDC at 70°C
		5A 125VAC at 70°C
		H(S)LQ3 type: 8A 250VAC at 70°C
	1 Form C	3A 250VAC/30VDC at 70°C
VDE		H type: 5A 250VAC /30VDC at 70°C
	1 Form A	HL type: 3A 250VAC /30VDC at 70°C
		H(S)LQ3 type: 8A 250VAC at 70°C
	1 Form C	3A 250VAC/30VDC at 70°C

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

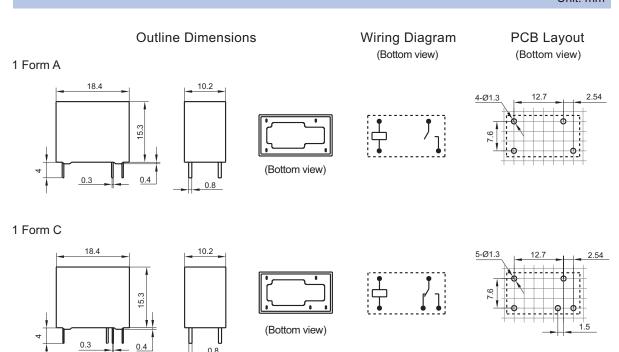


Notes: 1) We have now gradually updated our ordering information. We suggest new type should be selected. If necessary, old type can be kept for some period for the old customers.

- 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) HF32F 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.

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

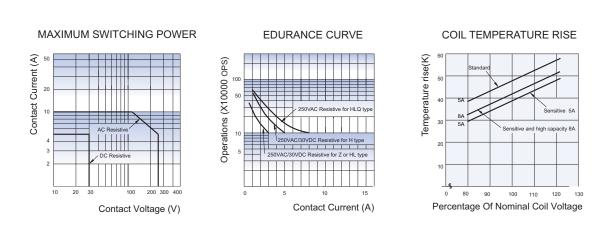
Unit: mm



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



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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