HF43F(JZC-43F)

SUBMINIATURE INTERMEDIATE POWER RELAY



File No.: E133481



File No.: 40002220



File No.:CQC02001001935



Features

- 10kV impulse withstand voltage (between coil and contacts)
- Highly efficient magnetic circuit for high sensitivity: 200mW
- Class F insulation standard
- Extremely small footprint utilizing PCB area
- Environmental friendly product (RoHS compliant)
- Outline Dimensions: (20.4 x 7.0 x 15.0) mm

CONTACT DATA		
Contact arrangement	1A	
Contact resistance	100mΩ (at 1A 24VDC)	
Contact material	See ordering info.	
Contact rating (Res. load)	3A 250VAC/30VDC	
Max. switching voltage	277VAC / 30VDC	
Max. switching current	5A	
Max. switching power	831VA / 90W	
Mechanical endurance	1 x 10 ⁷ ops	
Electrical endurance	1 x 10 ⁵ OPS (at 3A 250VAC, 25°C) 2 x 10 ⁵ OPS (at 3A 125VAC, 25°C) 2 x 10 ⁵ OPS (at 3A 30VDC, 25°C) 5 x 10 ⁴ OPS (at 5A 250VAC, 25°C)	

CHARACTERISTICS			
Insulation resistance		1000MΩ (at 500VDC)	
Dielectric	Between coil & contacts		4000VAC 1min
strength	Between	open contacts	750VAC 1min
Surge voltage (between coil & contacts)		10kV (1.2X50μs)	
Operate time (at nomi. volt.)		10ms max.	
Release time (at nomi. volt.)		10ms max.	
Shock resistance		Functional	100m/s² (10g)
	Destructive	1000m/s² (100g)	
Vibration resistance		10Hz to 55Hz 1.5mm DA	
Humidity		35% to 85% RH	
Ambient temperature		-40°C to 85°C	
Termination		PCB	
Unit weight		Approx. 4g	
Construction		Wash tight	

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

COIL	
Coil power	200mW

COIL DATA				at 23°C
Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. Allowable Voltage VDC	Coil Resistance Ω
4.5	3.38	0.23	5.85	101 x (1±10%)
5	3.75	0.25	6.50	125 x (1±10%)
6	4.50	0.30	7.80	180 x (1±10%)
9	6.75	0.45	11.7	405 x (1±10%)
12	9.00	0.60	15.6	720 x (1±10%)
18	13.5	0.90	23.4	1620 x (1±10%)
24	18.0	1.20	31.2	2880 x (1±10%)

SAFETY APPROVAL RATINGS				
UL&CUR		3A 250VAC		
	AgNi	3A 30VDC		
		3A 125VAC		
VDE	AgCdO	3A 250VAC		
	AgNi	5A 250VAC		

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



ISO9001、ISO/TS16949、ISO14001、OHSAS18001 CERTIFIED

2007 Rev. 2.00

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

ORDERING INFORMATION 012 HF43F -H 2 G HF43F Type 1) JZC-43F (Old type) Coil voltage 4.5, 5, 6, 9, 12, 18, 24VDC **Contact arrangement** H: 1 Form A Construction S: Wash tight **Contact material** 2: AgCdO T: AgSnO₂ Nil: AgNi **Contact plating** G: Gold plated Nil: No gold plated Customer special code 2) e.g. (551) stands for RoHS compliant (Cadmium containing contacts) (555) stands for RoHS compliant (Cadmium-free contacts) (Only for special requirements)

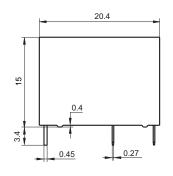
Notes: 1) We have now gradually updated our ordering information. We suggest new type should be selected. If necessary, old type can be kept for some period for the old customers.

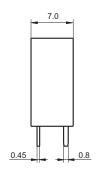
2) HF43F is an environmental friendly product. Please mark a special code (555) or (551) when ordering. (551) stands RoHS compliant with Cadmium contact; (555) stands for RoHS compliant with Cadmium-free contact.

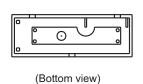
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

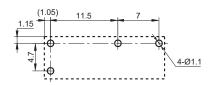
Outline Dimensions







PCB Layout (Bottom view)



Wiring Diagram (Bottom view)

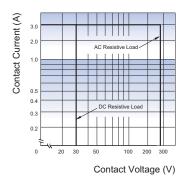


Remark: 1) In case of no tolerance shown in outline dimension: outline dimension ≤1mm, tolerance should be ±0.2mm; outline dimension >1mm and ≤5mm, tolerance should be ±0.3mm; outline dimension >5mm, tolerance should be ±0.4mm.

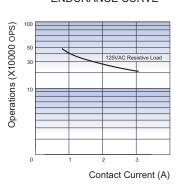
2) The tolerance without indicating for PCB layout is always ± 0.1 mm.

CHARACTERISTIC CURVES

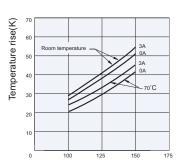
MAXIMUM SWITCHING POWER



ENDURANCE CURVE



COIL TEMPERATURE RISE



Percentage Of Nominal Coil Voltage

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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