HF14FF (JQX-14FF)

MINIATURE HIGH POWER RELAY





File No.:R50055983



File No.:CQC02001001955



Features

- 10A switching capability
- 5kV dielectric strength (between coil and contacts)
- Sockets available
- Wash tight and flux proofed types available
- Environmental friendly product (RoHS compliant)
- Outline Dimensions: (29.0 x 13.0 x 26.0) mm

CO	NTA	CT D	ATA

Contact arrangement	1A, 1C
Contact resistance	50mΩ (at 1A 24VDC)
Contact material	AgSnO ₂ , AgCdO
Contact rating	TV-5 120VAC
Contact fating	Resistive: 10A 277VAC/30VDC
Max. switching voltage	277VAC / 30VDC
Max. switching current	10A
Max. switching power	2770VAC / 300W
Mechanical endurance	1 x 10 ⁷ ops
Electrical endurance	1 x 10 ⁵ ops ¹⁾

CHARACTERISTICS

	Insulation resistance			1000MΩ (at 500VDC)
www.DataShe	Dielectric	Between coil & contacts		5000VAC 1min
	strength	Between open contacts		1000VAC 1min
	Operate time (at nomi. volt.)		omi. volt.)	15ms max.
	Release time (at nomi. volt.)			5ms max.
	Vibration resistance			10Hz to 55Hz 1.5mm DA
Sho	Shock resistance		Functional	100m/s² (10g)
	SHOCK res	istance	Destructive	1000m/s² (100g)
	Humidity Ambient temperature Termination Unit weight Construction		98% RH, 40°C	
			-40°C to 70°C	
			PCB	
			Approx. 18g	
			Wash tight,	

Notes: 1) If more details about testing method are required, please

- 2) The data shown above are initial values.
- 3) Please find coil temperature curve in the characteristic curves below.

COIL	
Coil power	Approx. 530m\

COIL DATA				at 23°C
Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. Allowable Voltage VDC	Coil Resistance Ω
3	2.25	0.3	4.2	17 x (1±10%)
5	3.75	0.5	7.0	47 x (1±10%)
6	4.50	0.6	8.4	68 x (1±10%)
9	6.75	0.9	12.6	160 x (1±10%)
12	9.00	1.2	16.8	275 x (1±10%)
18	13.5	1.8	25.2	620 x (1±10%)
24	18.0	2.4	33.6	1100 x (1±10%)
48	36.0	4.8	67.2	4170 x (1±10%)
60	45.0	6.0	84.0	7000 x (1±10%)

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

SAFETY APPROVAL RATINGS

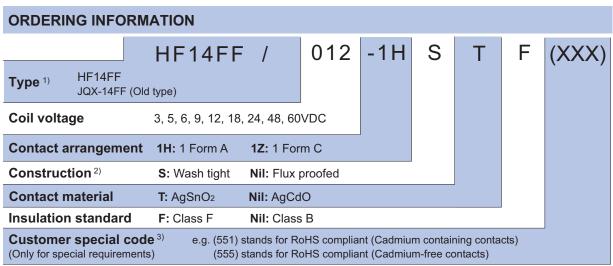
UL&CUR	10A 277VAC
	10A 30VDC
	1/3HP 250VAC
	1/4HP 125VAC
	TV-5 120VAC
TÜV	10A 250VAC
	10A 30VDC

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

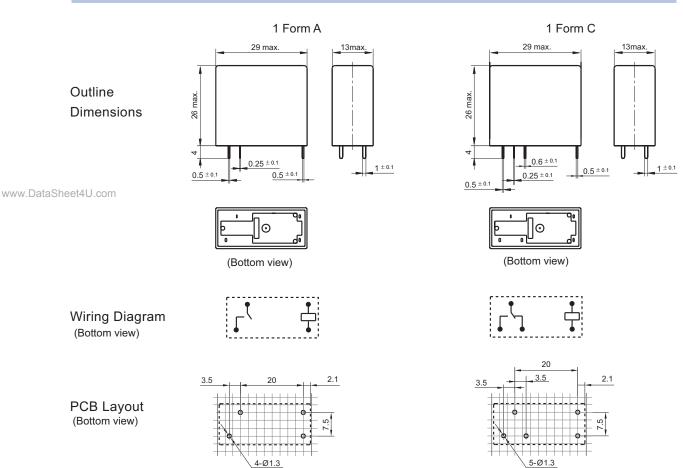


Notes: 1) We have now gradually updated our ordering information. We suggest new type should be selected. If necessary, old type can be kept for some period for the old customers.

- 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) HF14FF 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 type is with black cover. Smoke dust cover is available.

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

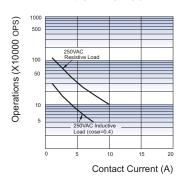
Unit: mm



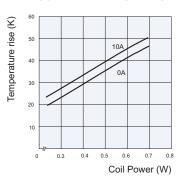
- Remark: 1) In case of no tolerance shown in outline dimension: outline dimension ≤1mm, tolerance should be ±0.2mm; outline dimension >1mm and ≤5mm, tolerance should be ±0.3mm; outline dimension >5mm, tolerance should be ±0.4mm.
 - 2) The tolerance without indicating for PCB layout is always ±0.1mm.
 - 3) The width of the gridding is 2.5mm.

CHARACTERISTIC CURVES

ENDURANCE CURVE



COIL TEMPERATURE RISE



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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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