

查询"HF115F-T"供应商

HF115F-T/TH (JQX-115F-T/TH)

MINIATURE HIGH POWER RELAY



File No.: E134517



File No.: 116934



File No.: CQC02001001951



Features

- High Temperature: 105°C
- Low height 15.7 mm
- 5kV dielectric strength (between coil and contacts)
- Creepage distance: 10mm
- VDE0435/0631/0700
- Product in accordance to IEC 60335-1 available
- Sockets available
- Wash tight and flux proofed types available
- Environmental friendly product (RoHS compliant)
- Outline Dimensions: (29.0 x 12.7 x 15.7) mm

CONTACT DATA

Contact arrangement	1A, 1C
Contact resistance	100mΩ (at 1A 6VDC)
Contact material	See ordering info.
Contact rating (Res. load)	HF115F-TH: 10A 250VAC HF115F-T: 16A 250VAC
Max. switching voltage	440VAC / 125VDC
Max. switching current	16A
Max. switching power	HF115F-TH: 2500VA HF115F-T: 4000VA
Mechanical endurance	1 x 10 ⁷ OPS
Electrical endurance	1 x 10 ⁵ OPS (See approval reports for more details)

COIL

Coil power	HF115F-TH: 250mW; HF115F-T: 400mW
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COIL DATA

at 23°C

Standard (HF115F-T)

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. Allowable Voltage VDC	Coil Resistance Ω
5	3.50	0.5	6.5	62 x (1±10%)
6	4.20	0.6	7.8	90 x (1±10%)
9	6.30	0.9	11.7	202 x (1±10%)
12	8.40	1.2	15.6	360 x (1±10%)
18	12.6	1.8	23.4	810 x (1±10%)
24	16.8	2.4	31.2	1440 x (1±10%)
48	33.6	4.8	62.4	5760 x (1±10%)
60	42.0	6.0	78	7500 x (1±15%)

Sensitive (HF115F-TH)

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. Allowable Voltage VDC	Coil Resistance Ω
5	3.75	0.5	6.5	100 x (1±10%)
6	4.50	0.6	7.8	144 x (1±10%)
9	6.75	0.9	11.7	324 x (1±10%)
12	9.00	1.2	15.6	576 x (1±10%)
18	13.50	1.8	23.4	1296 x (1±10%)
24	18.00	2.4	31.2	2304 x (1±10%)
48	36.00	4.8	62.4	9216 x (1±15%)
60	45.00	6.0	78	12857 x (1±15%)

CHARACTERISTICS

Insulation resistance	1000MΩ (at 500VDC)
Dielectric strength	Between coil & contacts 5000VAC 1min Between open contacts 1000VAC 1min
Surge voltage (between coil & contacts)	10kV (1.2X50μs)
Operate time (at nomi. volt.)	15ms max.
Release time (at nomi. volt.)	8ms max.
Temperature rise (at nomi. volt.)	55K max.
Shock resistance	Functional 100m/s ² (10g) Destructive 1000m/s ² (100g)
Vibration resistance	10Hz to 150Hz 10g/5g
Humidity	35% to 85% RH
Ambient temperature	-40°C to 105°C
Termination	PCB
Unit weight	Approx. 13.5g
Construction	Wash tight, Flux proofed

Notes: The data shown above are initial values.



HONGFA RELAY

ISO9001、ISO/TS16949、ISO14001、OHSAS18001 CERTIFIED

2007 Rev. 2.00

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SAFETY APPROVAL RATINGS

VDE	HF115F-TH-1H(S)3	10A 250VAC at 105°C 6A 400VAC at 105°C
	HF115F-T-1H(S)3B	16A 250VAC at 105°C
	HF115F-TH-1Z(S)3B	10A 250VAC at 105°C
	HF115F-T-1Z(S)3B	NO: 16A 250VAC at 105°C NC: 16A 250VAC at 105°C
UL&CUR	HF115F-TH-1H(S)3B	10A 277VAC
	HF115F-T-1H(S)3B	16A 277VAC

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

ORDERING INFORMATION

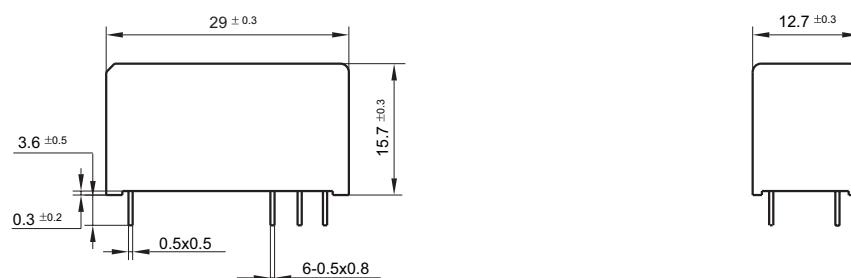
	HF115F-T/TH	012	-1H	S	3	A	(XXX)
Type ¹⁾	HF115F-T: Standard HF115F-TH: High Sensitive JQX-115F-T/TH (Old type)						
Coil voltage	5, 6, 9, 12, 18, 24, 48, 60VDC						
Contact arrangement	1H: 1 Form A 1Z: 1 Form C						
Construction ²⁾	S: Wash tight Nil: Flux proofed						
Version	3: 5.0mm						
Contact material	A: AgSnO ₂ B: AgNi Nil: AgCdO						
Customer special code ³⁾ (Only for special requirements)	e.g. (551) stands for RoHS compliant (Cadmium containing contacts) (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) HF115F-T 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

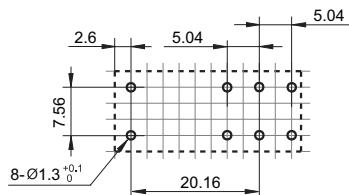
Outline Dimensions



OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

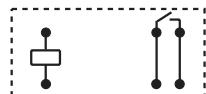
Unit: mm

PCB Layout
(Bottom view)

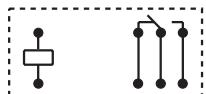


Wiring Diagram
(Bottom view)

1 Form A



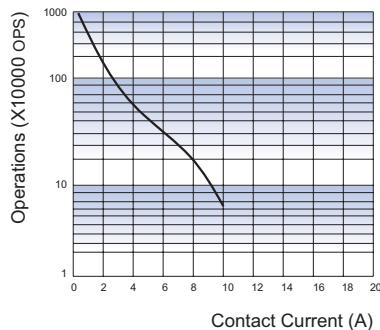
1 Form C



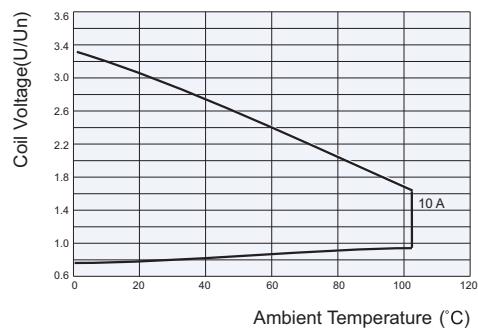
- Remark: 1) In case of no tolerance shown in outline dimension: outline dimension $\leq 1\text{mm}$, tolerance should be $\pm 0.2\text{mm}$; outline dimension $> 1\text{mm}$ and $\leq 5\text{mm}$, tolerance should be $\pm 0.3\text{mm}$; outline dimension $> 5\text{mm}$, tolerance should be $\pm 0.4\text{mm}$.
 2) The tolerance without indicating for PCB layout is always $\pm 0.1\text{mm}$.
 3) The width of the gridding is 2.52mm .

CHARACTERISTIC CURVES

ENDURANCE CURVE



COIL OPERATING RANGE (DC)



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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