HF10FH (JQX-10FH)

MINIATURE HIGH POWER RELAY



1 x 10⁵ OPS

Features

- 10A switching capability
- Long endurance (Min. 100,000 electrical operations)
- Industry standard 8 or 11 round terminals
- Sockets available
- With push button
- Smoke cover type available
- Environmental friendly product (RoHS compliant)
- Outline Dimensions: (35.5 x 35.5 x 55.3) mm

c % us

Electrical endurance

| CONTACT DATA | | |
|----------------------------|--|--|
| Contact arrangement | 2C, 3C | |
| Contact resistance | 100mΩ (at 1A 24VDC) | |
| Contact material | AgSnO ₂ , AgCdO | |
| Contact rating (Res. load) | 2C: 10A 250VAC/30VDC 3C: (NO)10A 250VAC/30VDC (NC) 5A 250VAC/30VDC | |
| Max. switching voltage | 250VAC / 30VDC | |
| Max. switching current | 10A | |
| Max. switching power | 300W / 2500VA | |
| Mechanical endurance | 1 x 10 ⁷ OPS | |

| CHARACTERISTICS | | | | |
|-----------------------------------|-------------------------|-----------------|-----------------------------|--|
| Insulation resistance | | e | 500MΩ (at 500VDC) | |
| Dielectric | Between coil & contacts | | 2500VAC 1min | |
| strength | Between open contacts | | 2000VAC 1min | |
| Operate time (at nomi. volt.) | | omi. volt.) | 30ms max. | |
| Release time (at nomi. volt.) | | omi. volt.) | 30ms max. | |
| Temperature rise (at nomi. volt.) | | at nomi. volt.) | 70K max. | |
| Shock resistance | | Functional | 100m/s² (10g) | |
| | | Destructive | 1000m/s² (100g) | |
| Vibration resistance | | Э | 10Hz to 55Hz 1.5mm DA | |
| Humidity | | | 98% RH, 40°C | |
| Ambient temperature | | re | -40°C to 55°C | |
| Termination | | | Octal and Undecal Type Plug | |
| Unit weight | | | Approx. 100g | |
| Construction | | | Dust protected | |

Notes: The data shown above are initial values.

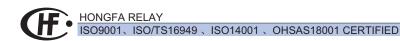
| COIL | | |
|------------|----------------|----------------|
| Coil power | DC type: 1.5W; | AC type: 2.7VA |

| COIL DATA | | | | at 23°C |
|---------------------------|---------------------------|----------------------------|-------------------------------------|-------------------------|
| Nominal Voltage VDC | Pick-up Voltage VDC | Drop-out Voltage VDC | Max. Allowable Voltage VDC | Coil Resistance Ω |
| 6 | 4.80 | 0.60 | 7.20 | 23.5 x (1±10%) |
| 12 | 9.60 | 1.20 | 14.4 | 95 x (1±10%) |
| 24 | 19.2 | 2.40 | 28.8 | 430 x (1±10%) |
| 48 | 38.4 | 4.80 | 57.6 | 1630 x (1±10%) |
| 60 | 48.0 | 6.00 | 72.0 | 1920 x (1±10%) |
| 100 | 80.0 | 10.0 | 120 | 6800 x (1±10%) |
| 110 | 88.0 | 11.0 | 132 | 7300 x (1±10%) |

| Nominal Voltage VAC | Pick-up Voltage VAC | Drop-out Voltage VAC | Max. Allowable Voltage VAC | Coil Resistance Ω |
|---------------------------|---------------------------|----------------------------|-------------------------------------|-------------------------|
| 6 | 4.80 | 1.80 | 7.20 | 3.9 x (1±10%) |
| 12 | 9.60 | 3.60 | 14.4 | 16.9 x (1±10%) |
| 24 | 19.2 | 7.20 | 28.8 | 70 x (1±10%) |
| 48 | 38.4 | 14.4 | 57.6 | 315 x (1±10%) |
| 110/120 | 88.0 | 36.0 | 132 | 1600 x (1±10%) |
| 220/240 | 176 | 72.0 | 264 | 6800 x (1±10%) |

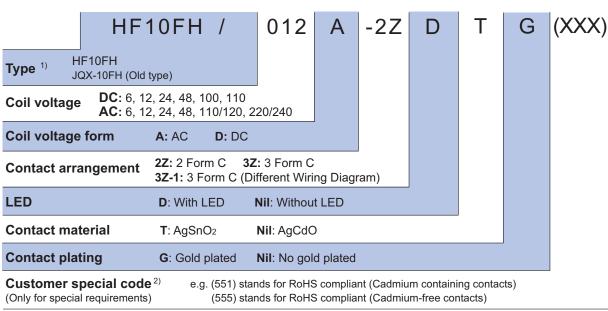
| SAFETY APPROVAL RATINGS | | |
|-------------------------|------------------|--|
| UL&CUR | 10A 250VAC/30VDC | |
| | 1/3HP 240VAC | |
| | 1/3HP 120VAC | |
| | 1/2HP 277VAC | |

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



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ORDERING INFORMATION



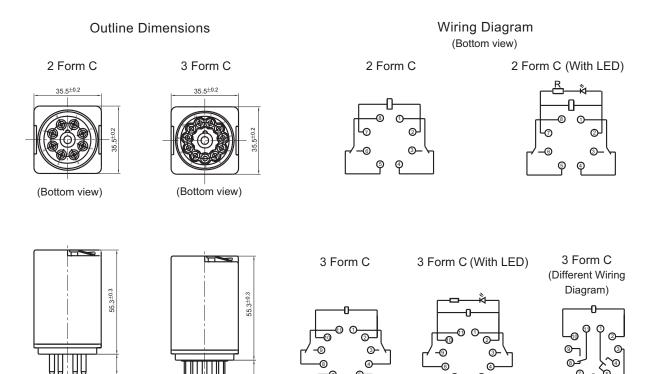
Notes: 1) We have now gradually updated our ordering information. We suggest new type should be selected. If necessary, old type can be kept for some period for the old customers.

2) HF10FH 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

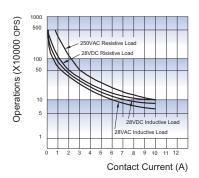
10.2^{±0.5}

Unit: mm

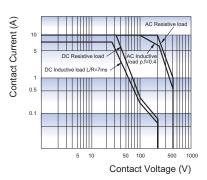


CHARACTERISTIC CURVES

ENDURANCE CURVE



MAXIMUM SWITCHING POWER



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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