HF3FD

SUBMINIATURE HIGH POWER RELAY





File No.: 40014057

Mechanical life

Electrical life



Features

COIL DATA

1 x 10⁷OPS

1 x 10⁵ops

- Extremely low cost
- 2.5KV dielectric strength (between coil and contacts)
- Flammability class according to UL94, V-0
- CTI 250 ,VDE 0631 / 0700
- 1 From A and 1 From C configurations
- Subminiature, standard PCB layout
- Product in accordance to IEC 60335-1
- Environmental friendly product available (RoHS compliant)
- Outline Dimensions: 19.0 x 15.2 x 15.5 mm

| CONTACT DATA | | | |
|------------------------|-------------|----------------------|--|
| Contact arrangement | 1A | 1C | |
| Initial contact | | 100mΩ | |
| resistance Max. | | (at 1A 6VDC) | |
| Contact material | | AgSnO2, AgNi | |
| Contact rating | 404 050)/40 | NO: 10A 250VAC/28VDC | |
| (Res. load) | 10A 250VAC | NO/NC: 7A/3A 250VAC | |
| (Res. load) | 10A 28VDC | NO/NC: 5A/5A 250VAC | |
| Max. switching voltage | | 277VAC/30VDC | |
| Max. switching current | 15A | 10A | |
| Max. switching power | | 2770VA / 300W | |

| CHARACTERISTICS | | | |
|-----------------------------------|---------|----------------------------|-----------------------|
| Initial insulation resistance | | 100MΩ (at 500VDC) | |
| Dielectric Between | | n coil & contacts | 2000VAC/2500VAC, 1min |
| strength | Betweer | n open contacts | 750VAC, 1min |
| Operate time (at nomi. volt.) | | Max. 10ms | |
| Release time (at nomi. volt.) | | Max. 5ms | |
| Temperature rise (at nomi. volt.) | | | Max. 60°C |
| Chaalt rasi | otonoo | Functional | 98 m/s²(10g) |
| Shock resistance | stance | Destructive | 980 m/s²(100g) |
| Vibration resistance | | 10 to 55Hz 1.5mm | |
| Humidity | | 35 to 85% RH | |
| Ambient temperature | | -40°C to +105°C | |
| Termination | | PCB | |
| Unit weight | | | Approx. 10g |
| Construction | | Sealed IP67, Flux proof | |

| COIL | |
|------------|-------|
| Coil power | 360mW |

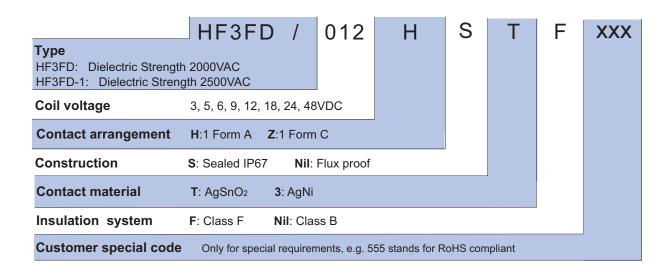
| OOIL DATA | | | | |
|-----------------------------|-----------------------------|------------------------------|--------------------------------------------|---------------------------|
| Nominal Voltage (VDC) | Pick-up Voltage (VDC) | Drop-out Voltage (VDC) | Max. Allowable Voltage (VDC) 25°C | Coil Resistance (Ω) |
| 3 | 2.25 | 0.3 | 3.9 | 25 ± 10% |
| 5 | 3.75 | 0.5 | 6.5 | 70 ± 10% |
| 6 | 4.50 | 0.6 | 7.8 | 100 ± 10% |
| 9 | 6.75 | 0.9 | 11.7 | 225 ± 10% |
| 12 | 9.00 | 1.2 | 15.6 | 400 ± 10% |
| 18 | 13.5 | 1.8 | 23.4 | 900 ± 10% |
| 24 | 18.0 | 2.4 | 31.2 | 1600 ± 10% |
| 48 | 36.0 | 4.8 | 62.4 | 6400 ± 10% |

| SAFETY APPROVAL RATINGS | | | | |
|-------------------------|--------------------|----|-----------------------------|--|
| UL& CUR | | 1A | 10A 250VAC at 85°C | |
| | | 1C | NO/NC: 5A/5A 250VAC at 85°C | |
| | AgSnO ₂ | | NO: 10A 250VAC at 85°C | |
| | | | NO: 1/2HP 125VAC | |
| | | | NO: TV-5 120VAC | |
| | | 1A | 10A 250VAC at 85°C | |
| | | | 6A 250VAC at 105°C | |
| | | 1C | NO: 10A 250VAC at 85°C | |
| | AgNi | | NO: 6A 250VAC at 105°C | |
| | | | NC: 6A 250VAC at 85°C | |
| | | | NO/NC: 7A/3A 250VAC at 85°C | |
| | | | NO: 1/2HP 125VAC | |
| VDE AgNi | | 1A | 10A 250VAC at 85°C | |
| | AgSnO ₂ | 1C | NO/NC: 5A/5A 250VAC at 85°C | |
| | | | NO: 10A 250VAC at 85°C | |
| | | 1A | 10A 250VAC at 85°C | |
| | | | 6A 250VAC at 105°C | |
| | AgNi | 1C | NO: 10A 250VAC at 85°C | |
| | | | NO: 6A 250VAC at 105°C | |
| | | | NC: 6A 250VAC at 85°C | |
| | | | NO/NC: 7A/3A 250VAC at 85°C | |

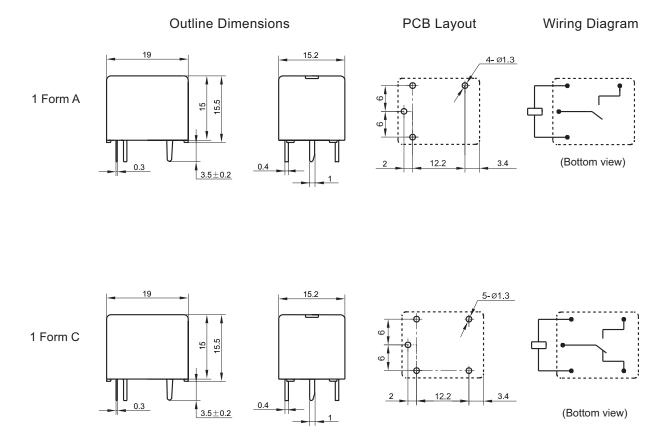


HONGFA RELAY
ISO9001、ISO/TS16949、ISO14001、OHSAS18001 CERTIFIED

ORDERING INFORMATION

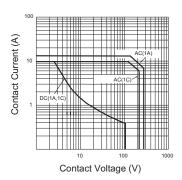


OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

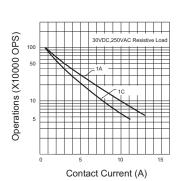


CHARACTERISTIC CURVES

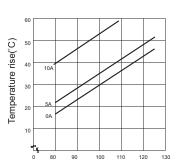
MAXIMUM SWITCHING POWER



LIFE 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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