

HF6D6-3

HF46F RELAY MODULE



Features

- 4-Channel NO relay module, with a thickness of only 32.1mm
- DIN35 standard guide rail installation
- Load capability 3A 250VAC/30VDC
- The common positive wiring or common negative wiring can be simply carried out by using the Terminal access short films
- Protective cover for preventing electric shock
- 0.2-1.5mm²/24-16AWG wide range wiring capacity
- The product has excellent cost performance

CHARACTERISTIC

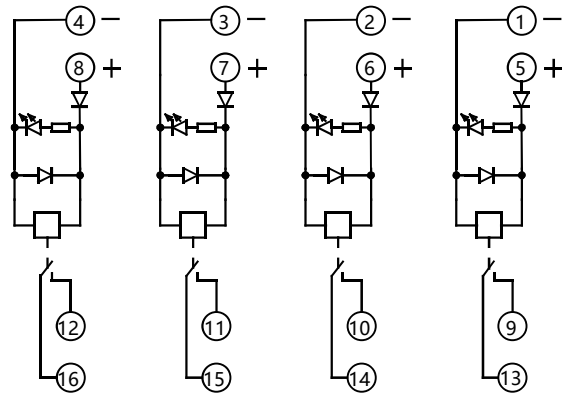
| INPUT | | |
|----------------------------------|--|--------|
| Nominal voltage | 24VDC | |
| Power consumption Per Channel | <260mW | |
| Wiring polarity | Polar(pay attention to wiring polarity) | |
| Terminal type | Fence screw terminal | |
| Control channel Qty | 4 | |
| OUTPUT | | |
| Relay specification | HF46F(See Annex 1) | |
| Contact arrangement | 1NO | |
| Rated voltage | 250VAC / 30VDC | |
| Rated current | 3A/Channel | |
| Terminal type | Fence screw terminal | |
| Minimum load ⁽¹⁾ | 50mW | |
| Maximum switching frequency | 30 ops/minute(@1A-3A) 60 ops/minute(@0.5A-1A) 300 ops/minute(@<0.5A) | |
| OTHER PARAMETER | | |
| Ambient temperature | -20℃～70℃ | |
| Storage temperature | -20℃～70℃ | |
| Vibration resistance | 10Hz～60Hz,0.3mm DA 60Hz～150Hz,19.6m/s² | |
| Shock resistance | 98m/s² | |
| Standard compliance | IEC61010-1 | |
| Creepage distance | Between output channels | ≥1.5mm |
| | Between input and output | ≥5mm |
| Clearance distance | Between output channels | ≥1.5mm |
| | Between input and output | ≥5mm |
| Surge voltage (1.2/50μs) | Between output channels | 2.5kV |
| | Between input and output | 6kV |

PRODUCT INSTALLATION AND MAINTENANCE

| | |
|-------------------|--|
| Installation | DIN35 guide rail installation(Compatible with 1.0mm and 1.2mm thickness) |
| Relay replacement | Replaceable |

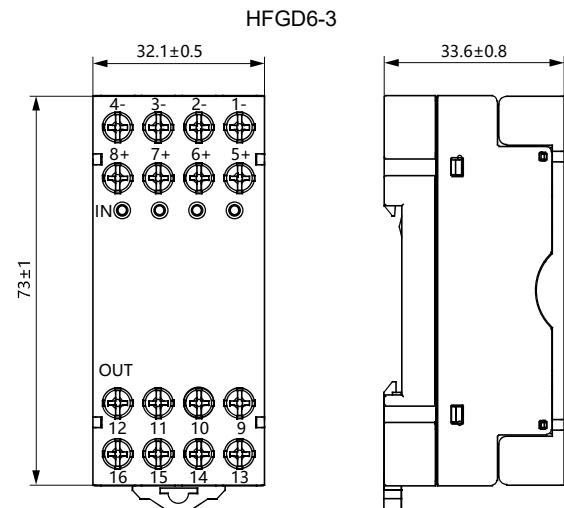
Note: 1) on the premise of meeting the minimum load, the load voltage is ≥ 5V and the load current is ≥ 1mA.

SCHEMATIC DIAGRAM

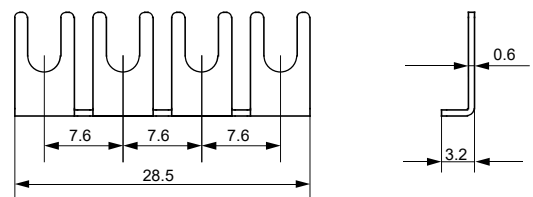


OUTLINE DIMENSIONS

Unit: mm



Terminal access short films



HONGFA INDUSTRIAL ELECTRONIC MODULE

ISO9001, IATF16949, ISO14001, OHSAS18001, IECQ QC 080000 CERTIFIED


2023 Rev. 1.00

ORDERING INFORMATION


| | | | | | | | |
|---------------------|---|---------|-----|---|----|-----|-------|
| Type | HF | GD6-3 / | C1H | 4 | -R | D24 | (XXX) |
| Output Channel Type | C1H: 1 NO | | | | | | |
| Control channel Qty | 4: 4 Channel | | | | | | |
| Installation | R: DIN-rail | | | | | | |
| Rated input voltage | D24: 24VDC | | | | | | |
| Special code | Nil:Standard XXX: Custmoter special requitment | | | | | | |

Notes: 1) Special requiements of customers will be expressed as special code after being evaluated by Hongfa.


Annex 1: Relay parameter table(HF46F)




File No.: E134517



File No.: 40025215




File No.: CQC17002168380



Features

- 3A switching capability
- Width 7mm, suitable for high density installation
- 10kV impulse withstand voltage (between coil and contacts)
- Meets VDE 0700, 0631 reinforce insulation
- Highly efficient magnetic circuit for high sensitivity: 200mW
- Extremely small footprint utilizing PCB area



RoHS compliant

CONTACT DATA

| | |
|-----------------------|--|
| Contact arrangement | 1H |
| Contact resistance | $\leq 100\text{m}\Omega$ (1A 6VDC) |
| Contact material | AgSnO ₂ |
| Contact rating | 3A 250VAC/30VDC |
| Max.switching voltage | 277VAC/30VDC |
| Max.switching current | 3A |
| Max.switcching power | 831VA/90W |
| Mechanical endurance | 5×10 ⁵ OPS |
| Electrical endurance | 2×10 ⁵ OPS (3A 250VAC,Res.load,85°C,1s on 9s off) |

CHARACTERISTIC

| | |
|---------------------|------------------------------------|
| Insulation | Approx. 200mW |
| Dielectric strength | 1000MΩ (500VDC) |
| Surge voltage | Between coil & contact: 4kVAC 1min |

Disclaimer:

The specification is for reference only. See to "Terminology and Guidelines" for more information. Specifications 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.