FUJITSU

POWER RELAY 1 POLE - 5A Slim Power Relay

FTR-MY Series

■ FEATURES

- Width 5mm, height 12mm (31% smaller than NY series) area 100 mm², super slim , low power, compact and light weight 2.5gr.
- Nominal power: 110mW (8% less than NY series), Operate power: 54mW High sensitive
- High reliable contacts, bifurcated gold overlay silver alloy (cadmium free)
- Complies with IEC 61010, 61131
- Dielectric strength: 3000VAC
- Surge strength: 5080V
- Safety standards UL, CSA, VDE, CQC
- RoHS compliant Please see page 6 for more information
- Plastic sealed type, RTIII

APPLICATIONS

• PLC, I/O module inverter control

PARTNUMBER INFORMATION

| | FTR-MY | А | А | 012 | D | - | VD |
|-----------|--------|-----|-----|-----|-----|---|-----|
| [Example] | (a) | (b) | (c) | (d) | (e) | - | (f) |

| (a) | Relay type | FTR-MY | : FTR-MY-Series |
|-----|-----------------------|-----------|--|
| (b) | Contact configuration | А | : 1 form A |
| (c) | Coil type | А | : Standard type (110mW) |
| (d) | Coil rated voltage | 012 | : 4.524 VDC Coil rating table at page 3 |
| (e) | Contact material | D | : Gold overlay AgNi |
| (f) | Safety standard | Nil VD | : UL, CSA : UL, CSA, VDE |

Actual marking does not carry the type name : "FTR" E.g.: Ordering code: FTR-MYAA012D Actual marking: MYAA012D



SPECIFICATION

| ltem | | | FTR-MY | |
|---------------------------|---------------------------|------------------|---|--|
| Contact Data | Configuration | | 1 form A | |
| | Construction | | Single | |
| | Material | | Gold overlay silver alloy (Ag90 Ni10+Au) | |
| | Resistance (initial) | | Max. 30 mΩ at 6 VDC, 1 A | |
| | Contact rating | | 5A, 250VAC / 30VDC | |
| | Max. carrying current | | 5A | |
| | Max. switching current | | 5A | |
| | Max. switching voltage | | 277VAC / 125 VDC | |
| | Max. switching power | | 1,250VA / 150W | |
| | Min. switching load * | | 1 mA, 5 VDC | |
| Life | Mechanical | | Min. 20 x 10 ⁶ operations | |
| | Electrical | | Min. 100 × 10 ³ operations (at 3A 250VAC, 30VDC resistive) Min. 50 × 10 ³ operations (at 5 A 250 VAC, 30 VDC resistive) (switching frequency 20 times/minute) | |
| Coil Data | Rated power (at 20 °C) | | 110 mW | |
| | Operate power (at 20 °C) | | 54 mW | |
| Operating temperature rat | | ange | -40 °C to +90 °C (no frost) | |
| Timing Data | Operate (at nominal volt | age) | Max. 10 ms (without bounce) | |
| | Release (at nominal volta | age) | Max. 5 ms (without bounce) | |
| Insulation | Resistance (initial) | | Min. 1,000MΩ at 500VDC | |
| | Dielectric strength | Open contacts | 750VAC (50/60Hz) 1min | |
| | | Contacts to coil | 3,000VAC (50/60Hz) 1min | |
| | Surge strength | Coil to contacts | 5,080V / 1.2 x 50µs standard wave | |
| Other | Vibration resistance | Misoperation | 10 to 55Hz double amplitude 1.5mm | |
| | | Endurance | 10 to 55Hz double amplitude 5.0mm | |
| | Shock | Misoperation | Min. 100m/s ² (11 ± 1ms) | |
| | SHUCK | Endurance | Min. 1,000m/s ² (6 ± 1ms) | |
| | Weight | | Approximately 2.5 g | |
| | Sealing | | Plastic sealed RTIII | |

* Minimum switching loads mentioned above are reference values. Please perform the confirmation test with actual load before production since reference values may vary according to switching frequencies, environmental conditions and expected reliability levels.

| Coil Code | Rated Coil Voltage (VDC) | Coil Resistance +/- 10% (Ohm) | Must Operate Voltage (VDC) * | Must Release- Voltage (VDC) * | Rated Power (mW) |
|--------------|--------------------------------|----------------------------------|------------------------------------|-------------------------------------|---------------------|
| 4.5 | 4.5 | 185 | 3.15 | 0.225 | |
| 005 | 5 | 230 | 3.5 | 0.25 | |
| 006 | 6 | 330 | 4.2 | 0.3 | |
| 009 | 9 | 740 | 6.3 | 0.45 | 110 |
| 012 | 12 | 1,310 | 8.4 | 0.6 | |
| 018 | 18 | 2,950 | 12.6 | 0.9 | |
| 024 | 24 | 5,240 | 16.8 | 1.2 | |

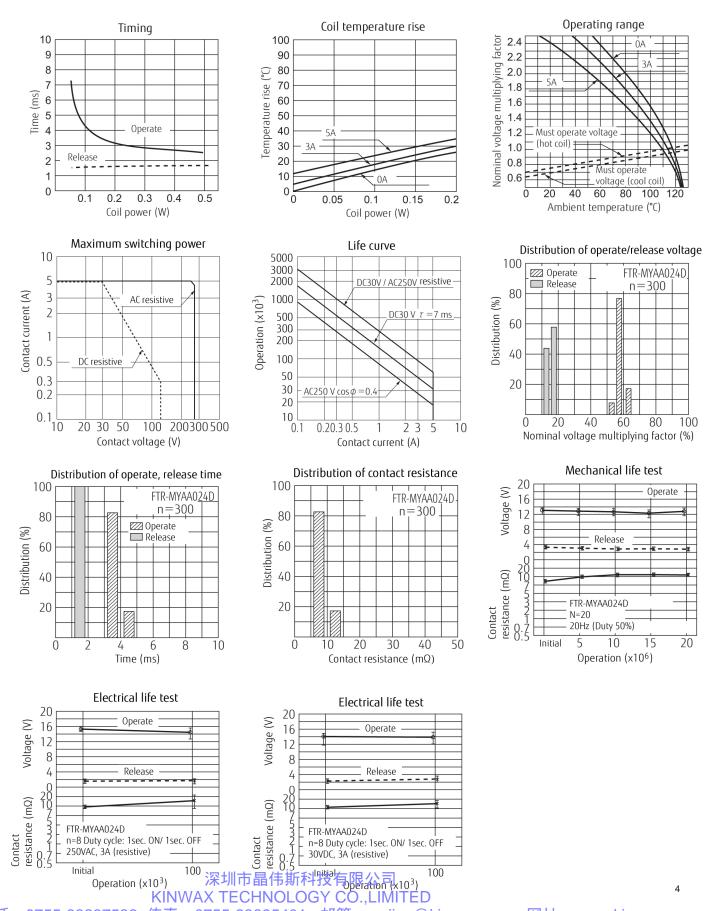
COIL RATING

Note: All values in the table are valid for 20°C and zero contact current. * Specified operate values are valid for pulse wave voltage.

SAFETY STANDARDS

| Туре | Compliance | Contact rating | |
|------|---------------------------------|--|--|
| UL | UL 508, UL 1604 | Flammability: UL 94-V0 (plastics) | |
| CSA | E63614, E225300 C22.2 No. 14 | 5A, 277 VAC (resistive) 5A, 30 VDC (resistive) 1/10 HP, 277VAC /125VAC | |
| | LR 40304 | Pilot duty: D300, C300, R300 | |
| VDE | 0435 part 201 40014781 | 5A, 250VAC, cosφ1, 50K 5A, 30VDC, 0msec, 50K | |

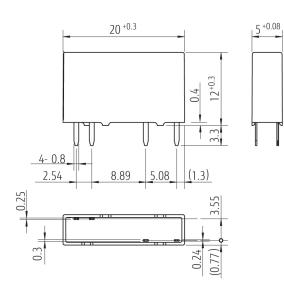
CHARACTERISTIC DATA



电话:0755-83237532 传真:0755-23895401 邮箱:wujing@kinwax.com 网址:www.kinwax.com.cn

DIMENSIONS

• Dimensions



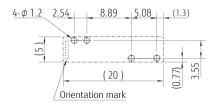
• Schematics

NO COM J

4 3

1 2





Unit: mm

RoHS Compliance and Lead Free Information

1. General Information

- All signal and power relays produced by Fujitsu Components are compliant with RoHS directive 2002/95EC including amendments.
- Cadmium as used in electrical contacts is exempted from the RoHS directives on October 21st, 2005. (Amendment to Directive 2002/95/EC)
- All of our signal and power relays are lead-free. Please refer to Lead-Free Status Info for older date codes at: http://www.fujitsu.com/us/downloads/MICRO/fcai/relays/lead-free-letter.pdf
- Lead free solder plating on relay terminals is Sn-3.0Ag-0.5Cu, unless otherwise specified. This material has been verified to be compatible with PbSn assembly process.

2. Recommended Lead Free Solder Profile

• Recommended solder Sn-3.0Ag-0.5Cu.

Flow Solder condition:

| Pre-heating: Soldering: | maximum 120°C dip within 5 sec. at 260°C solder bath |
|----------------------------|--|
| | |

Solder by Soldering Iron:

1

| Soldering Iron | |
|----------------|----------------|
| Temperature: | maximum 360°C |
| Duration: | maximum 3 sec. |

We highly recommend that you confirm your actual solder conditions

3. Moisture Sensitivity

• Moisture Sensitivity Level standard is not applicable to electromechanical relays, unless otherwise indicated.

4. Tin Whiskers

• Dipped SnAgCu solder is known as presenting a low risk to tin whisker development. No considerable length whisker was found by our in house test.

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