

# POWER RELAY

## 1 POLE - 5A SLIM POWER RELAY

### FTR-MY Series

RoHS Compliant

#### ■ FEATURES

- Width 5mm, height 12mm, area 100 mm<sup>2</sup>, super slim , low power, compact and light weight 2.5gr.
- Nominal power: 110mW, Operate power: 54mW  
High sensitive
- High reliability, bifurcated gold overlay silver alloy
- Dielectric strength: 3000VAC
- Surge strength: 5080V
- SAFETY STANDARDS  
UL, CSA, IEC1131 compatability
- RoHS Compliant since production



#### ■ APPLICATIONS

- PLC, I/O module Inverter Control

#### ■ ORDERING INFORMATION

[Example]    FTR-MY    A    A    012    D    - \*\*  
                  (a)    (b)    (c)    (d)    (e)    (f)

勝特力材料 886-3-5753170  
 勝特力电子(上海) 86-21-54151736  
 勝特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)

|     |                      |   |
|-----|----------------------|---|
| (a) | Series Name          | FTR-MY Series   |
| (b) | Contact Arrangement  | A : 1 Form A  |
| (c) | Coil Type            | A : 110 mW  |
| (d) | Coil Nominal Voltage | 4.5 : 4.5VDC    012 : 12 VDC<br>005 : 5 VDC    018 : 18 VDC<br>006 : 6 VDC    024 : 24 VDC<br>009 : 9 VDC |
| (e) | Contact Material     | D : Gold overlay Silver alloy   |
| (f) | Custom Designation   | Special Number  |

Note: The designation name is stamped on the top of the relay case as follows:  
 Example.: Ordering code: FTR-MYAA012D    Actual marking: MYAA012D

# FTR-MY SERIES

## ■ SPECIFICATIONS

| Item       |                                   | FTR-MY Series  |                                       |
|------------|-----------------------------------|--|---------------------------------------|
| Contact    | Arrangement                       | 1 Form A   |                                       |
|            | Material                          | Gold overlaid silver alloy   |                                       |
|            | Resistance (initial)              | Maximum 30mΩ (at 1A 6VDC)  |                                       |
|            | Rating (resistive)                | 250VAC / 30VDC, 5A   |                                       |
|            | Maximum Carrying Current          | 5A   |                                       |
|            | Maximum Switching Rating          | 1250VA / 150W  |                                       |
|            | Maximum Switching Voltage         | 277VAC, 125 VDC  |                                       |
|            | Maximum Switching Current         | 5A   |                                       |
|            | Minimum Switching Load *1         | 5 VDC, 1 mA  |                                       |
| Coil       | Nominal Power (at 20° C)          | 110 mW   |                                       |
|            | Operate Power (at 20° C)          | 54 mW  |                                       |
|            | Operating Temperature             | -40° C to +90° C (no frost)  |                                       |
| Time Value | Operate Time (at nominal voltage) | Maximum 10 ms (excluding bounce time)                                  |                                       |
|            | Release Time (at nominal voltage) | Maximum 5 ms (excluding bounce time)                                   |                                       |
| Insulation | Resistance (initial)              | Minimum 1,000 MΩ (at 500VDC)   |                                       |
|            | Dielectric Strength               | Between open contacts  | 750 VAC (50/60 Hz) 1 minute           |
|            |                                   | Between coil and contacts  | 3,000 VAC (50/60 Hz) 1 minute         |
|            | Surge Strength                    | 5,080 V at 1.2 x 50 μs (between coil and contacts)                     |                                       |
| Life       | Mechanical                        | 2 x 10 <sup>7</sup> operations minimum (18,000ops/hr)                  |                                       |
|            | Electrical                        | Contact Rating<br>10 x 10 <sup>4</sup> operations minimum (600 ops/hr) |                                       |
| Other      | Vibration Resistance              | Misoperation   | 10-55 Hz (double amplitude of 1.5mm)  |
|            |                                   | Endurance  | 10-55 Hz (double amplitude of 1.5 mm) |
|            | Shock Resistance                  | Misoperation   | 100m/s <sup>2</sup> (11±1ms)          |
|            |                                   | Endurance  | 1,000m/s <sup>2</sup> (6±1ms)         |
|            | Weight                            | Approximately 2.5g   |                                       |

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\*1 Minimum switching loads mentioned above are reference values. Please perform the confirmation test with the actual load before production since reference values may vary according to switching frequencies, environmental conditions and expected reliability levels.

