

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: 3,000VAC

• Surge strength: 5,080V

 Safety standards UL, CSA, VDE, CQC

• RoHS compliant Please see page 6 for more information

• Plastic sealed type, RTIII



• PLC, I/O module inverter control



PARTNUMBER INFORMATION

[Example] $\frac{\text{FTR-MY}}{\text{(a)}} \quad \frac{A}{\text{(b)}} \quad \frac{A}{\text{(c)}} \quad \frac{012}{\text{(d)}} \quad \frac{D}{\text{(e)}}$

(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

Actual marking does not carry the type name: "FTR"

E.g.: Ordering code: FTR-MYAA012D Actual marking: MYAA012D

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SPECIFICATION

tem			FTR-MY		
Contact Data	Configuration		1 form A		
	Construction		Bifurcated		
	Material		Gold overlay silver alloy (Ag90 Ni10+Au)		
	Resistance (initial)		Max. 30 mΩ at 6VDC, 1A		
	Contact rating		5A, 250VAC / 30VDC		
	Max. carrying current		5A		
	Max. switching current		5A		
	Max. switching voltage		277VAC / 125VDC		
	Max. switching power		1,250VA / 150W		
	Min. switching load *		1 mA, 5VDC		
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 5A 250VAC, 30VDC resistive) (switching frequency 20 times/minute)		
Coil Data	Rated power (at 20 °C)		110 mW		
	Operate power (at 20 °C)		54 mW		
	Operating temperature ra	nge	-40 °C to +90 °C (no frost)		
Timing Data	Operate (at nominal volta	ge)	Max. 10 ms (without bounce)		
	Release (at nominal volta	ge)	Max. 5 ms		
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	101	Misoperation	10 to 55 to 10 single amplitude 0.75mm		
	Vibration resistance	Endurance	10 to 55 to 10 single amplitude 2.5mm		
	Charle	Misoperation	Min. 100m/s ² (11 ± 1ms)		
	Shock	Endurance	Min. 1,000m/s² (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.

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http://www.jdqw.top/

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■ COIL RATING

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	

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

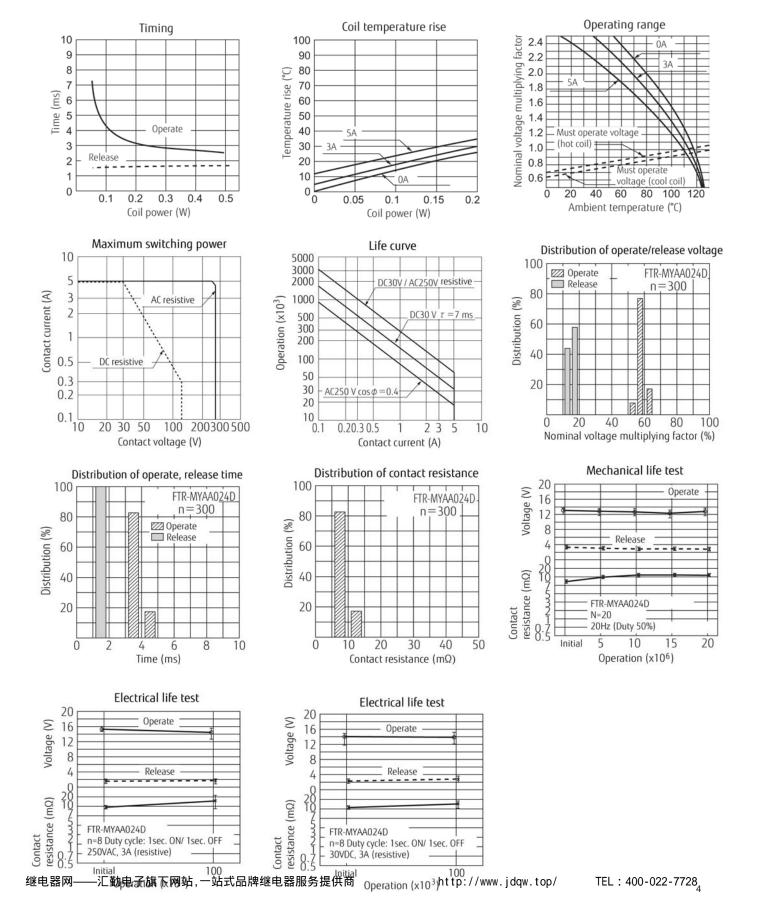
Туре	Compliance	Contact rating
UL	UL 508	Flammability: UL 94-V0 (plastics)
	ANSI/ISA 12.12.01 E63614, E225300	5A, 277 VAC (resistive) 5A, 30 VDC (resistive) 1/10 HP, 277VAC /125VAC
CSA	C22.2 No. 14 LR 40304	Pilot duty: D300, C300, R300
VDE	IEC/EN61810-1	5A, 250VAC, cosφ1, 50K 5A, 30VDC, 0msec, 50K
CQC	GB15092.1 11001063129, 03001007663	5A 250VAC

Note: Confirm to IEC61010, 61131 reinforced insulation

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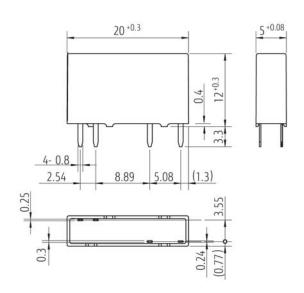
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CHARACTERISTIC DATA

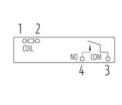


DIMENSIONS

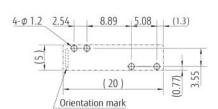
Dimensions



Schematics



PC board mounting hole layout (BOTTOM VIEW)



Unit: mm

RoHS Compliance and Lead Free Information

1. General Information

- All relays produced by Fujitsu Components are compliant with RoHS directive 2011/65/EU including amendments.
- Cadmium as used in electrical contacts is exempted from the RoHS directives. As per Annex III of directive 2011/65/EU.
- All relays are lead-free. Please refer to Lead-Free Status Info for older date codes at: http://www.fujitsu.com/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 Condition

• Recommended solder Sn-3.0Ag-0.5Cu.

Flow Solder Condition:

Pre-heating: maximum 120°C

within 90 sec.

Soldering: dip within 5 sec. at

255°C ± 5°C solder bath

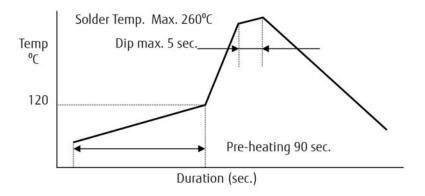
Relay must be cooled by air immediately

after soldering

Solder by Soldering Iron:

Soldering Iron 30-60W

Temperature: maximum 350-360°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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