

■ SPECIFICATION

Item	FTR-MY		Remarks / Conditions
Contact Data	Configuration	1 form A	
	Construction	Bifurcated (cross bar)	
	Material	Gold overlay silver alloy	
	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. 20×10^6 operations	
	Electrical	Min. 100×10^3 operations (at 3A 250VAC, 30VDC resistive) Min. 50×10^3 operations (at 5A 250VAC, 30VDC resistive)	
Coil Data	Rated power (at 20 °C)	110 mW	
	Operate power (at 20 °C)	54 mW	
	Operating temperature range	-40 °C to +90 °C (no frost)	
Timing Data	Operate (at nominal voltage)	Max. 10 ms (without bounce)	
	Release (at nominal voltage)	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	
	Clearance	Min. 5.6mm	
	Creepage	Min. 5.6mm	
Other	Vibration resistance	Misoperation 10 to 55 to 10 single amplitude 0.75mm	Coil ON/OFF, 3 axes, total 6 cycles
		Endurance 10 to 55 to 10 single amplitude 2.5mm	Coil OFF, 3 axes, total 6 hours
	Shock	Misoperation Min. 100m/s ² (11 ± 1ms)	Coil ON/OFF, 3 axes, total 36 operations
		Endurance Min. 1,000m/s ² (6 ± 1ms)	Coil OFF, 3 axes, total 18 operations
	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 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	110
005	5	230	3.5	0.25	
006	6	330	4.2	0.3	
009	9	740	6.3	0.45	
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.

Please use at rated coil voltage. Please refer to characteristic data and set up adequate voltage in case of use at over voltage.

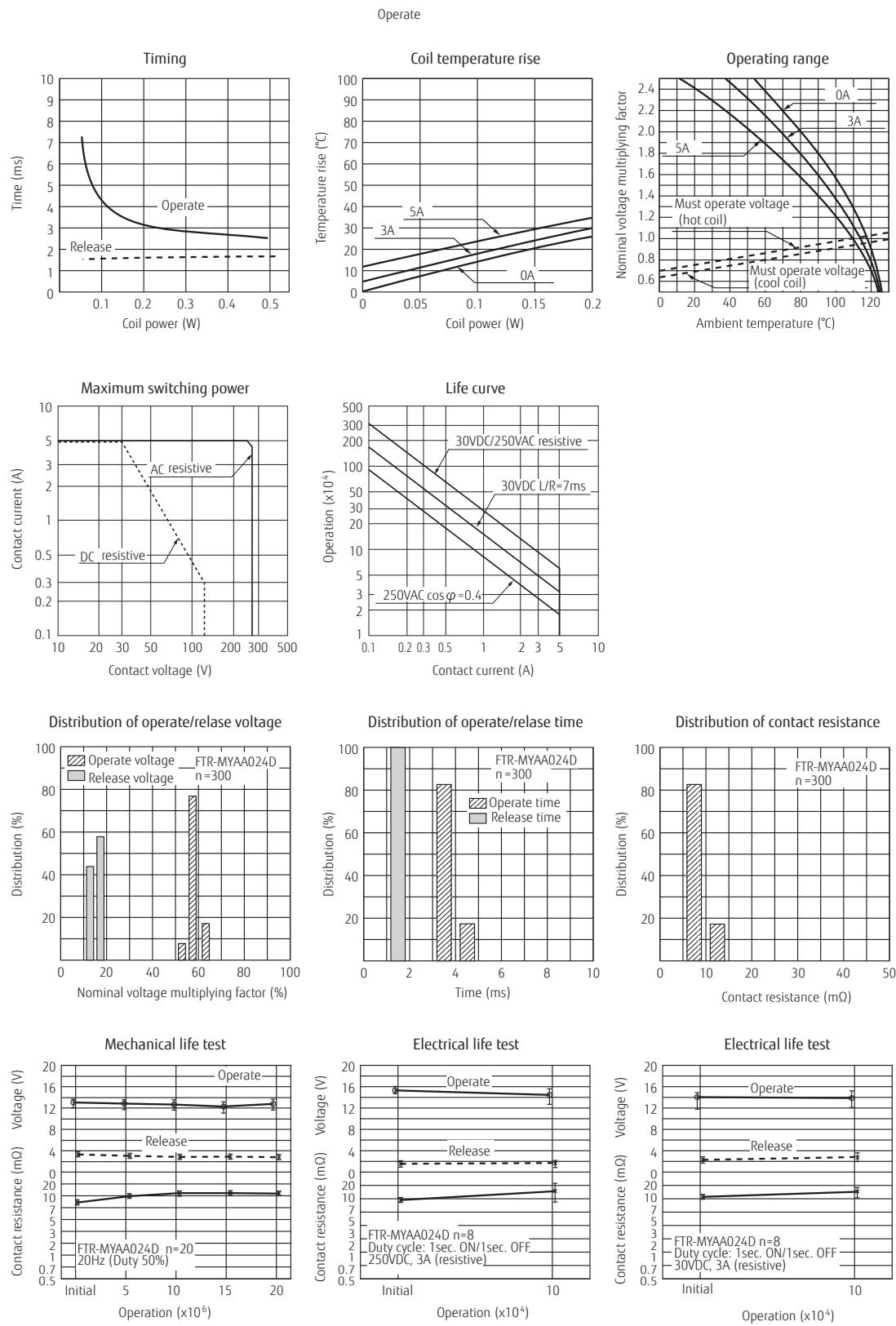
■ SAFETY STANDARDS

Type	Compliance	Contact rating
UL	UL 508 ANSI/ISA 12.12.01 E63614, E225300	Flammability: UL 94-V0 (plastics)
		5A, 277 VAC (resistive) 5A, 30 VDC 1/10 HP, 277VAC /125VAC
CSA	C22.2 No. 14 LR 40304	Pilot duty: D300, C300, R300
VDE	IEC/EN61810-1	5A, 250VAC, cosφ1
CQC	GB15092.1 11001063129, 17001164877	5A 250VAC

Also conform to UL61010-1, UL61010-2-201, IEC/EN61010-1, IEC/EN61010-2-201 (max. 277VAC)

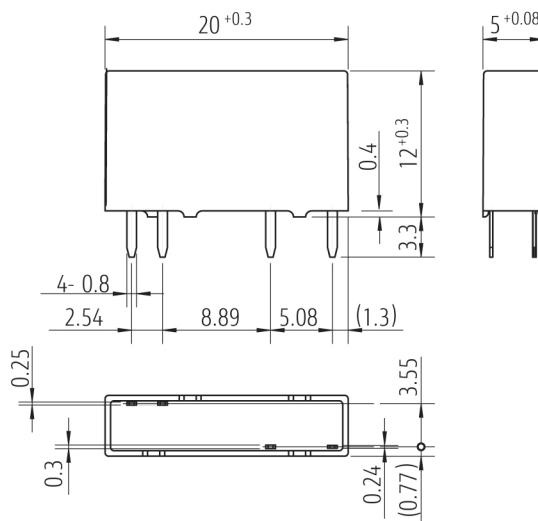
■ CHARACTERISTIC DATA

(Characteristic data is not guaranteed value but measured values of samples from production line.)

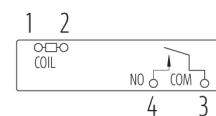


■ DIMENSIONS

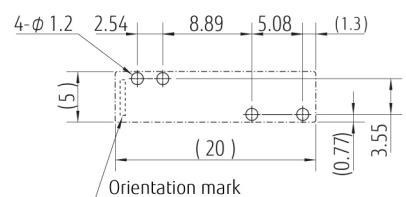
● Dimensions



- **Schematics**



- **PC board mounting
hole layout
(BOTTOM VIEW)**



Unit: mm

* Dimensions of the terminals do not include thickness of pre-solder.

* Tolerance of PC board mounting hole layout : ± 0.1 unless otherwise specified.

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.

Cautions

- * All values mentioned in this datasheet are provided under ideal conditions. Please perform the confirmation test before actual use.
- * Reflow soldering is prohibited.
- * Do not use relays in the atmosphere with sulfide gas, chloride gas or nitric oxide. Contact resistance may increase.
- * Do not use silicon or silicon-containing product or materials near relays. It may cause contact failure.

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