

■ Characteristics

Contact resistance (see note 2)	50 mΩ max.
Operate time (see note 3)	15 ms max.
Release time (see note 3)	15 ms max.
Max. operating frequency	Mechanical: 18,000 operations/hour Electrical: 1,800 operations/hour (under rated load)
Insulation resistance (see note 4)	100 MΩ (at 500 VDC)
Dielectric strength	Between coil and contacts: 2,000 VAC, 50/60 Hz for 1 minute Between contacts of same polarity: 1,000 VAC, 50/60 Hz for 1 minute
Vibration resistance	Malfunction: 10 to 55 to 10 Hz, 0.5 mm single amplitude (1.0 mm double amplitude)
Shock resistance	Malfunction: 200 m/s ²
Mechanical endurance	50,000,000 operations
Electrical endurance (see note 5)	Input: 10,000,000 operations (10 mA) or 50,000 operations (1 A) with resistive load 2,500,000 operations (10 mA) or 20,000 operations (1 A) with inductive load Output: 1,000,000 operations with rated load
Error rate (level P) (Reference value) (see note 6)	Input: 100 μA at 1 VDC Output: 10 mA at 5 VDC
Ambient temperature	Operating: -40°C to 70°C (with no icing or condensation)
Ambient humidity	Operating: 5% to 85% (with no icing or condensation)
Weight	Approx. 17 g

Note: 1. The above values are all initial values.

2. The contact resistance was measured with 1 A at 5 VDC using the voltage drop method.

3. The operate and the release times were measured with the rated voltage imposed with any contact bounce ignored at an ambient temperature of 23°C.

4. The insulation resistance was measured with a 500-VDC megger applied to the same places as those used for checking the dielectric strength.

5. The electrical endurance was measured at an ambient temperature of 23°C.

6. This value was measured at a switching frequency of 120 operations per minute.

■ Socket Ratings

Features

- Easily mounts or dismounts the G7T I/O Relay.
- Also mounts the Indicator Module (with surge suppressing function).
- Only 19 mm in width.
- Terminals corresponding to the NO and NC contacts of a Relay are arranged on top of the Socket to enhance maintainability.
- Also permits mounting of the G3TA Solid-state I/O Relay.

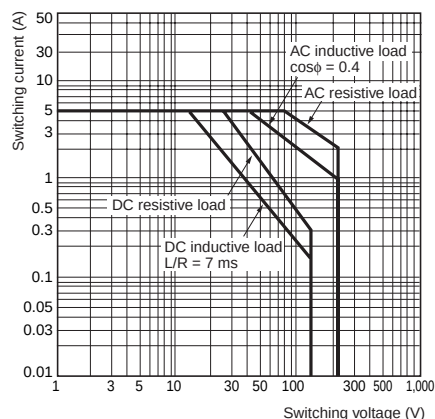
Specifications

Model	P7TF-05
Contact resistance *	10 mΩ max.
Dielectric strength	2,000 VAC for 1 minute
Insulation resistance	1,000 MΩ min. (at 500 VDC)
Vibration resistance	10 to 55 to 10 Hz, 0.5 mm single amplitude (1.0 mm double amplitude)
Shock resistance	1,000 m/s ²
Ambient temperature	Operating: -40°C to 70°C (with no icing or condensation)
Ambient Humidity	Operating: 5% to 85%RH
Weight	Approx. 28 g

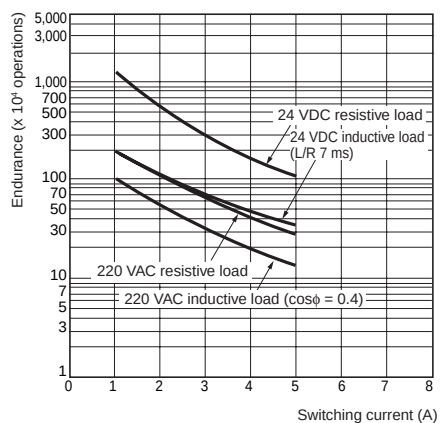
* Measurement condition: 1 A at 5 VDC.

Engineering Data

Maximum Switching Power (Output Model with Life of 1,000,000 Operations)



Electrical Endurance Output Relay



Input Relay

