

## ■ Characteristics

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

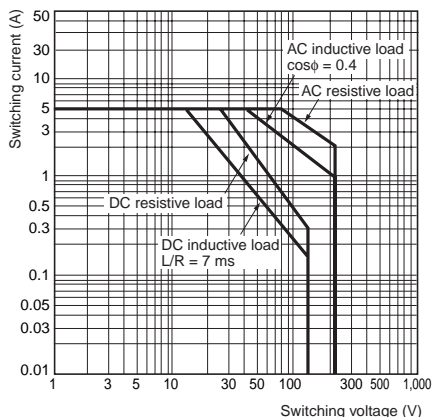
### Specifications

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

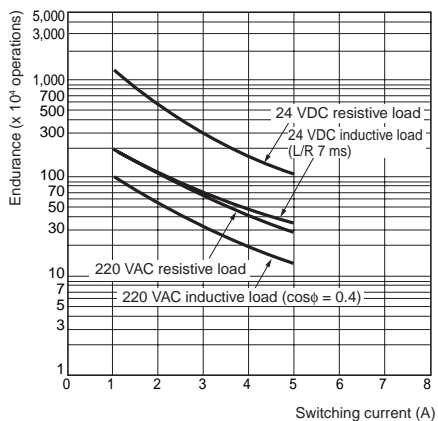
\* Measurement condition: 1 A at 5 VDC.

# Engineering Data

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



## Electrical Endurance Output Relay



## Input Relay

