

●Coil: Single

Rated voltage	Item	Rated current (mA)	Coil resistance (Ω)	Must operate voltage (V)	Must release voltage (V)	Maximum voltage (V)	Power consumption (mW)
				% of rated voltage			
3 VDC		33.0	91	80% max.	10% min.	150%	Approx. 100
4.5 VDC		23.2	194				
5 VDC		21.1	237				
12 VDC		9.1	1,315				

Note 1. The rated current and coil resistance are measured at a coil temperature of 23°C with a tolerance of ±10%.

Note 2. The operating characteristics are measured at a coil temperature of 23°C.

Note 3. The maximum voltage is the highest voltage that can be imposed on the Relay coil instantaneously.

■Characteristics

Contact resistance *1		100 mΩ max.
Operating time *2		3 ms max. (approx. 1.4 ms)
Release time *2		3 ms max. (approx. 0.7 ms)
Insulation resistance *3		500 MΩ min. (at 500 VDC)
Dielectric strength	Between coil and contacts	350 VAC, 50/60 Hz for 1 min
	Between contacts of different polarity	350 VAC, 50/60 Hz for 1 min
	Between contacts of the same polarity	350 VAC, 50/60 Hz for 1 min
	Between ground and coil/contacts	350 VAC, 50/60 Hz for 1 min
Vibration resistance	Destruction	10 to 55 to 10 Hz, 2.5 mm single amplitude (5 mm double amplitude)
	Malfunction	10 to 55 to 10 Hz, 1.65 mm single amplitude (3.3 mm double amplitude)
Shock resistance	Destruction	1,000 m/s ²
	Malfunction	750 m/s ²
Durability	Mechanical	50,000,000 operations min. (at a switching frequency of 36,000 operations/hour)
	Electrical	1,000,000 operations min. (10 VDC, 10 mA, at a switching frequency of 1,800 operations/hour) 100,000 operations min. (Other rated load, at a switching frequency of 1,800 operations/hour)
Ambient operating temperature		-40°C to 70°C (with no icing or condensation)
Ambient operating humidity		5% to 85%
Weight		Approx. 1.16 g

Note. The above values are initial values.

*1. The contact resistance was measured with 10 mA at 1 VDC with a voltage drop method.

*2. Values in parentheses are actual values.

*3. The insulation resistance was measured with a 500 VDC megohmmeter applied to the same parts as those used for checking the dielectric strength.