

MY2-02 DC48



Ratings / Performance

Ratings

Degree of protection		Closed type (cover)
Terminal structure		PCB terminal
Coil	Coil ratings	48 VDC 18.5 mA
	Coil resistance	2600 Ω
	Operate voltage (Set voltage)	80 % max.
	Release voltage (Reset voltage)	10 % min.
	Maximum voltage	110 % (23 °C)
	Power consumption	Approx. 0.9 W
Contact	Contact rated load	220 VAC 5 A (Resistive load) 220 VAC 2 A (Inductive load ($\cos\phi = 0.4$)) 24 VDC 5 A (Resistive load) 24 VDC 2 A (Inductive load (L/R = 7 ms))
	Max. contact voltage	250 VAC 125 VDC
	Max. contact current	AC: 5 A DC: 5 A
	Maximum switching power	1100 VA (Resistive load) 440 VA (Inductive load ($\cos\phi = 0.4$)) 120 W (Resistive load) 48 W (Inductive load (L/R = 7 ms))
	Contact form	DPDT
	Contact method	Single
	Contact material	Ag

Performance

Contact resistance	50 m Ω max. (Voltage drop method with 5 VDC 1 A)
Operating time	20 ms max. (With rated operating power applied, not including contact bounce)
Reset time	20 ms max. (With rated operating power applied, not including contact bounce)
Maximum operating frequency	Mechanical: 18000 time/hour Rated load: 1800 time/hour
Insulation resistance	Between coil and contacts: 100 M Ω min. (at 500 VDC) Between contacts of different polarity: 100 M Ω min. (at 500 VDC) Between contacts of same polarity: 100 M Ω min. (at 500 VDC)

Dielectric strength	Between coil and contacts: 2000 VAC 50/60 Hz 1 min Between contacts of different polarity: 2000 VAC 50/60 Hz 1 min Between contacts of same polarity: 1000 VAC 50/60 Hz 1 min
Vibration resistance (destruction)	10 to 55 to 10 Hz, 0.5-mm single amplitude (1-mm double amplitude)
Vibration resistance (Malfunction)	10 to 55 to 10 Hz, 0.5-mm single amplitude (1-mm double amplitude)
Shock resistance (destruction)	1000 m/s ²
Shock resistance (Malfunction)	200 m/s ²
Endurance (Mechanical)	100 million operations min. (switching frequency 18,000 operations/h)
Endurance (Electrical)	500,000 operations min. (23 °C, Rated load, switching frequency 1,800 operations/h)
Failure rate	1 mA at 5 VDC (failure level: Preference value, Switching frequency: 120 operations per minute)
Ambient temperature (Operating)	-55 to 70 °C (with no freezing or condensation)
Ambient humidity (Operating)	5 to 85 %
Weight	Approx. 35 g
Mounting method	Soldering

Characteristic chart

Switching capacities

MY2 and MY3

