

[Home](#) > [Products](#) > [Product Category](#) > [Relays](#) > [General Purpose Relays](#) > [For Control Panel](#) > [MY](#) > [Item list](#) > MY4 DC24

Miniature Power Relays

English

Print Page 

Series



Miniature Power Relays

MY

Catalog



Image

Standard type/Single stable, Single, Plug-in terminal, Not equipped, 24 VDC 3 A, 220 VAC 3 A, Output 4PDT (24 VDC 3 A)

Coil ratings	24 VDC 36.3 mA
Contact form	4PDT
Contact method	Single
Contact material	Au clad + Ag alloy
Contact rated load	220 VAC 3 A (Resistive load) 220 VAC 0.8 A (Inductive load ($\cos\varphi = 0.4$)) 24 VDC 3 A (Resistive load) 24 VDC 1.5 A (Inductive load ($L/R = 7$ ms))
Terminal structure	Plug-in terminal

- ▶ Item list of MY

Ratings / Performance

Terminal arrangement and internal connection

Characteristic chart

As of April 12, 2021

Ratings

Degree of protection		Closed type (cover)
Terminal structure		Plug-in terminal
Coil	Coil ratings	24 VDC 36.3 mA
	Coil resistance	662 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
Max. contact voltage		250 VAC 125 VDC
Max. contact current		AC: 3 A DC: 3 A
Maximum switching power		660 VA (Resistive load) 176 VA (Inductive load (cosφ = 0.4)) 72 W (Resistive load) 36 W (Inductive load (L/R = 7 ms))
Contact form		4PDT
Contact method		Single
Contact material		Au clad + Ag alloy

Performance

Contact resistance	50 mΩ 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 MΩ min. (at 500 VDC) Between contacts of different polarity: 100 MΩ min. (at 500 VDC) Between contacts of same polarity: 100 MΩ 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)	200,000 operations min. (23 °C, Rated load, switching frequency 1,800 operations/h)
Failure rate	1 VDC 1 mA (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	Socket

As of April 12, 2021

[▲ Top of page](#)