



Miniature Power Relays

MY4Z AC24

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Image

Mini power relay, 4 poles, Twin contacts, Plug-in terminal, 24 VAC

Coil ratings	24 VAC 50 Hz 53.8 mA 24 VAC 60 Hz 46 mA	
Contact form	ct form 4PDT	
Contact method	Bifurcated	
Contact material	Au clad + Ag alloy	
Contact rated load	220 VAC 3 A (Resistive load) 220 VAC 0.8 A (Inductive load (cosφ = 0.4)) 24 VDC 3 A (Resistive load) 24 VDC 1.5 A (Inductive load (L/R = 7 ms))	
Terminal structure	Plug-in terminal	

Ratings / Performance

As of November 20, 2023

Ratings

Degree of protection		Closed type (cover)
Terminal structure		Plug-in terminal
Coil	Coil ratings	24 VAC 50 Hz 53.8 mA 24 VAC 60 Hz 46 mA
	Coil resistance	180 Ω
	Operate voltage (Set voltage)	80 % max.
	Release voltage (Reset voltage)	30 % min.
	Maximum voltage	110 % (23 °C)
	Power consumption	Approx. 0.9 to 1.3 VA 60 Hz
Contact	Contact rated load	220 VAC 3 A (Resistive load) 220 VAC 0.8 A (Inductive load (cosφ = 0.4)) 24 VDC 3 A (Resistive load) 24 VDC 1.5 A (Inductive load (L/R = 7 ms))
	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	Bifurcated
	Contact material	Au clad + Ag alloy

Performance

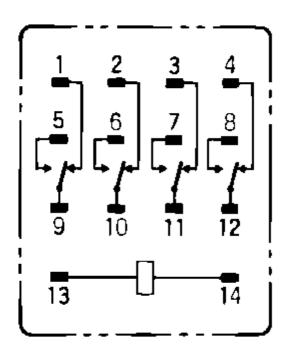
Contact resistance	50 mΩ max. (Voltage drop method with 5 VDC 1 A)	
Operating time	20 ms max. (With rated operating power applied, not including contact bounce)	
Reset time	20 ms max. (With rated operating power applied, not including contact bounce)	
Maximum operating frequency	Mechanical: 18000 time/hour Rated load: 1800 time/hour	
Insulation resistance	Between coil and contacts: 100 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)	20 million operations min. (switching frequency 18,000 operations/h)	
Endurance (Electrical)	100,000 operations min. (23 °C, Rated load, switching frequency 1,800 operations/h)	
Failure rate	1 VDC 100 μA (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 November 20, 2023

Terminal arrangement and internal connection

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Terminal arrangement and internal connection



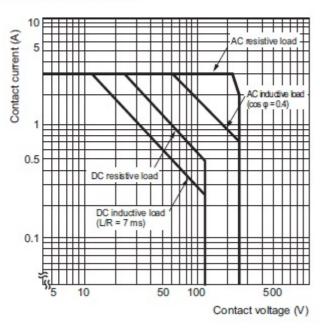
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Characteristic chart

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Switching capacities

MY4 and MY4Z



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