

Miniature Power Relays

MY4N DC24



Image

Miniature Power Relay, 4-pole, Single contact, Plug-in terminals, With operation indicator, 24 VDC

Coil ratings	24 VDC 36.3 mA
Operating indicator	LED
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 (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

Ratings

Operating indicator		LED
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	220 VAC 3 A (Resistive load) 220 VAC 0.8 A (Inductive load ($\cos\phi = 0.4$)) 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	DC: 3 A
	Maximum switching power	660 VA (Resistive load) 176 VA (Inductive load ($\cos\phi = 0.4$)) 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 mQ 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 MQ min. (at 500 VDC) Between contacts of different polarity: 100 MQ min. (at 500 VDC) Between contacts of same polarity: 100 MQ 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 (l-mm double amplitude)
Vibration resistance (Malfunction)	10 to 55 to 10 Hz, 0.5-mm single amplitude (l-mm double amplitude)
Shock resistance (destruction)	1000 m/s ²
Shock resistance (Malfunction)	200 mis 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 60 °c (with no freezing or condensation)
Ambient humidity (Operating)	5 to 85 %
Weight	Approx. 35 g
Mounting method	Socket
Applicable socket	PYF14S/ PYF14T/ PYF-14-PU/ PYF-14-PU-L/ PYFZ-14/ PYFZ-14-E/ PY14/ PY14-Y1/ PY14QN/ PY14QN2/ PY14QN-Y1/ PY14QN2-Y1/ PY14-02

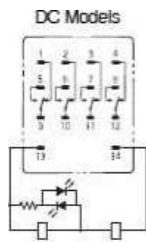
As of July 25, 2024

Terminal arrangement and internal connection

As of July 25, 2024

Characteristic chart

Terminal arrangement and internal connection



(Coil has no polarity)

- Note: 1. The incetoris AC am græn for DC.
2. The co«atim itÚcatcr imitaÉs erergiza%on of the coil am does rot represent contact operation.