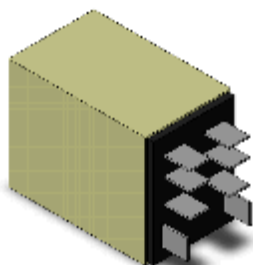


Bi-power Relays

# LY2N AC100/110

Single stable, Single, Plug-in terminal, Operating indicator LED, Not equipped, 24 VDC 10 A, 110 VAC 10 A, Output DPDT (24 VDC 10 A)



Image

Coil ratings	100 VAC 50 Hz 11.7 mA 100 VAC 60 Hz 10 mA 110 VAC 50 Hz 12.9 mA 110 VAC 60 Hz 11 mA
Operating indicator	LED
Contact form	DPDT
Contact method	Single
Contact material	Ag alloy
Contact rated load	110 VAC 10 A (Resistive load) 110 VAC 7.5 A (Inductive load ( $\cos\phi = 0.4$ )) 24 VDC 10 A (Resistive load) 24 VDC 5 A (Inductive load ( $L/R = 7$ ms))
Terminal structure	Plug-in terminal

## Ratings / Performance

As of July 16, 2020

### Ratings

Operating indicator		LED
Degree of protection		Closed type (cover)
Terminal structure		Plug-in terminal
Coil	Coil ratings	100 VAC 50 Hz 11.7 mA 100 VAC 60 Hz 10 mA 110 VAC 50 Hz 12.9 mA 110 VAC 60 Hz 11 mA
	Coil resistance	3750 $\Omega$
	Operate voltage (Set voltage)	80% max.
	Release voltage (Reset voltage)	30% min.
	Maximum voltage	110%
	Power consumption	Approx. 0.9 to 1.1 VA 60 Hz
Contact	Contact rated load	110 VAC 10 A (Resistive load) 110 VAC 7.5 A (Inductive load ( $\cos\phi = 0.4$ )) 24 VDC 10 A (Resistive load) 24 VDC 5 A (Inductive load ( $L/R = 7$ ms))
	Max. contact voltage	250 VAC 125 VDC
	Max. contact current	AC: 10 A DC: 10 A
	Contact form	DPDT
	Contact method	Single
	Contact material	Ag alloy

## Performance

<b>Contact resistance</b>	50 mΩ max. (Voltage drop method with 5 VDC 1 A)
<b>Operating time</b>	25 ms max. (With rated operating power applied, 23 °C, not including contact bounce)
<b>Reset time</b>	25 ms max. (With rated operating power applied, 23 °C, not including contact bounce)
<b>Maximum operating frequency</b>	Mechanical: 18000 time/h Rated load: 1800 time/h
<b>Insulation resistance</b>	Between coil and contacts: 100 MΩ min. (at 500 VDC) Between contacts of same polarity: 100 MΩ min. (at 500 VDC) Between contacts of different polarity: 100 MΩ min. (at 500 VDC)
<b>Dielectric strength</b>	Between coil and contacts: 2000 VAC 50/60 Hz 1 min Between contacts of same polarity: 1000 VAC 50/60 Hz 1 min Between contacts of different polarity: 2000 VAC 50/60 Hz 1 min
<b>Vibration resistance (destruction)</b>	10 to 55 to 10 Hz, 0.5-mm single amplitude (1-mm double amplitude)
<b>Vibration resistance (Malfunction)</b>	10 to 55 to 10 Hz, 0.5-mm single amplitude (1-mm double amplitude)
<b>Shock resistance (destruction)</b>	1000 m/s <sup>2</sup>
<b>Shock resistance (Malfunction)</b>	200 m/s <sup>2</sup>
<b>Endurance (Mechanical)</b>	50 million operations min. (switching frequency 18,000 operations/h)
<b>Endurance (Electrical)</b>	500,000 operations min. (23 °C, switching frequency 1,800 operations/h)
<b>Failure rate</b>	100 mA at 5 VDC (failure level: Preference value, Switching frequency: 120 operations per minute)
<b>Ambient temperature (Operating)</b>	-25 to 40 °C (with no freezing or condensation)
<b>Ambient humidity (Operating)</b>	5 to 85% RH
<b>Weight</b>	Approx. 40 g
<b>Mounting method</b>	Socket

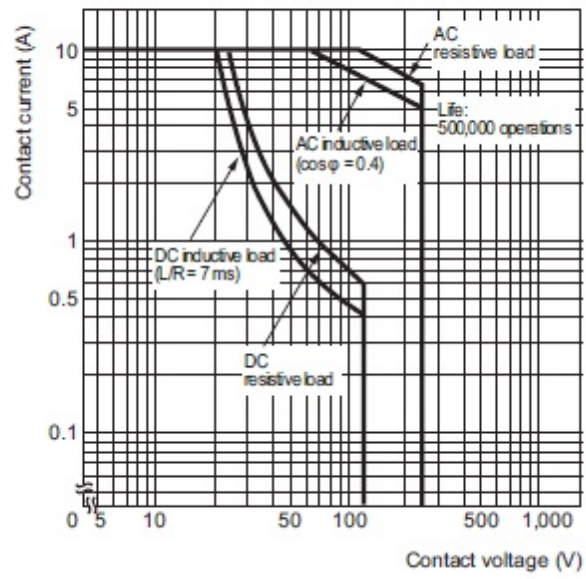
As of July 16, 2020

## Characteristic chart

As of July 16, 2020

Switching capacities

## LY2



As of July 16, 2020