

Power Relays

# G7Z-4A DC24



Image

## Power Relay, 4PST-NO, 24 VDC

<b>Coil ratings</b>	24 VDC 154 mA
<b>Contact form</b>	4PST-NO
<b>Contact method</b>	Double break
<b>Contact material</b>	Ag alloy
<b>Contact rated load</b>	440 VAC 40 A (NO contact: Resistive load) 440 VAC 22 A (NO contact: Inductive load (cosφ = 0.3)) 110 VDC 5 A (Resistive load (L/R = 1ms))
<b>Terminal structure</b>	Screw terminal

Ratings / Performance

As of July 25, 2024

### Ratings

<b>Degree of protection</b>		Closed type (cover)
<b>Terminal structure</b>		Screw terminal
<b>Coil</b>	<b>Coil ratings</b>	24 VDC 154 mA
	<b>Coil resistance</b>	156 Ω
	<b>Operate voltage (Set voltage)</b>	75 % max.
	<b>Release voltage (Reset voltage)</b>	10 % min.
	<b>Maximum voltage</b>	110 %
	<b>Power consumption</b>	Approx. 3.7 W
<b>Contact</b>	<b>Contact rated load</b>	440 VAC 40 A (NO contact: Resistive load) 440 VAC 22 A (NO contact: Inductive load (cosφ = 0.3)) 110 VDC 5 A (Resistive load (L/R = 1ms))
	<b>Max. contact voltage</b>	480 VAC 125 VDC
	<b>Max. contact current</b>	AC: 40 A (NO contact: Resistive load) AC: 22 A (NO contact: Inductive load (cosφ = 0.3)) DC: 5 A
	<b>Maximum switching power</b>	17600 VA (NO contact: Resistive load) 9680 VA (NO contact: Inductive load (cosφ = 0.3)) 550 W (Resistive load (L/R = 1ms))
	<b>Contact form</b>	4PST-NO
	<b>Contact method</b>	Double break
	<b>Contact material</b>	Ag alloy

### Performance

<b>Contact resistance</b>	400 mΩ max. (Voltage drop method with 5 VDC 1 A)
<b>Operating time</b>	50 ms max. (With rated operating power applied, 23 °C, not including contact bounce)

<b>Reset time</b>	50 ms max. (With rated operating power applied, 23 °C, not including contact bounce)
<b>Maximum operating frequency</b>	Mechanical: 1800 time/hour Rated load: 1200 time/hour
<b>Insulation resistance</b>	Between coil and contacts: 1000 MΩ min. (at 1000 VDC) Between contacts of different polarity: 1000 MΩ min. (at 1000 VDC) Between contacts of same polarity: 1000 MΩ min. (at 1000 VDC)
<b>Dielectric strength</b>	Between coil and contacts: 4000 VAC 50/60 Hz 1 min Between contacts of different polarity: 4000 VAC 50/60 Hz 1 min Between contacts of same 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>	Screw mounting: 700 m/s <sup>2</sup> , DIN Track mounting: 500 m/s <sup>2</sup>
<b>Shock resistance (Malfunction)</b>	NO contact: 100 m/s <sup>2</sup>
<b>Endurance (Mechanical)</b>	1,000,000 operations min. (under no load at operating frequency of 1800 operations/h)
<b>Endurance (Electrical)</b>	AC: 80,000 operations min. (Resistive load/Inductive load, 23 °C, switching frequency 1,200 operations/h) DC: 100,000 operations min. (Resistive load, 23 °C, switching frequency 1,200 operations/h)
<b>Failure rate</b>	24 VDC 2 A (failure level: Preference value, Switching frequency: 1800 operations/h)
<b>Ambient temperature (Operating)</b>	-25 to 60 °C
<b>Ambient humidity (Operating)</b>	5 to 85 %
<b>Mounting method</b>	Screw mounting, DIN track mounting

As of July 25, 2024

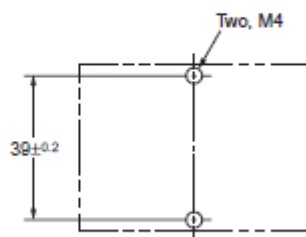
## Dimensions

As of July 25, 2024

Mounting hole dimensions

# G7Z

## Mounting Hole Dimensions



As of July 25, 2024

