

Relays with Forcibly Guided Contacts

G7SA-2A2B DC12

English

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Image

Single stable, PCB terminal, Not equipped, 30 VDC 6 A, 250 VAC 6 A, Output DPST-NO/DPST-NC (30 VDC 6 A)

Coil ratings	12 VDC 30 mA
Contact form	DPST-NO/DPST-NC
Contact material	Au plating+Ag alloy
Contact rated load	250 VAC 6 A (Resistive load) 30 VDC 6 A (Resistive load)
Terminal structure	PCB terminal

[▶ Item list of G7SA](#)

Series

Relays with Forcibly
Guided Contacts
G7SA[Catalog](#)

Ratings / Performance

Dimensions

Terminal arrangement and internal connection

As of July 16, 2020

Ratings

Degree of protection		Flux tight
Terminal structure		PCB terminal
Coil	Coil ratings	12 VDC 30 mA
	Coil resistance	400 Ω
	Operate voltage (Set voltage)	75% max.
	Release voltage (Reset voltage)	10% min.
	Maximum voltage	110%
	Power consumption	Approx. 360 mW
Contact	Contact rated load	250 VAC 6 A (Resistive load) 30 VDC 6 A (Resistive load)
	Max. contact voltage	250 VAC 125 VDC
	Max. contact current	AC: 6 A DC: 6 A
	Contact form	DPST-NO/DPST-NC
	Contact material	Au plating+Ag alloy

Performance

Contact resistance	100 mΩ max. (Voltage drop method with 5 VDC 1 A)
Operating time	20 ms max. (With rated operating power applied, 23 °C, not including contact bounce)
Reset time	20 ms max. (With rated operating power applied, 23 °C, not including contact bounce)
Maximum operating frequency	Mechanical: 36000 time/h Rated load: 1800 time/h
Insulation resistance	Between coil and contacts: 1000 MΩ min. (at 500 VDC) Between contacts of different polarity: 1000 MΩ min. (at 500 VDC) Between contacts of same polarity: 1000 MΩ min. (at 500 VDC)
Dielectric strength	Between coil and contacts: 4000 VAC 50/60 Hz 1 min Between contacts of different polarity (Between pole 3 and pole 4): 2500 VAC 50/60 Hz 1 min Between contacts of different polarity (Except for between pole 3 and pole 4): 4000 VAC 50/60 Hz 1 min Between contacts of same polarity: 1500 VAC 50/60 Hz 1 min
Vibration resistance (destruction)	10 to 55 to 10 Hz, 0.75 mm single amplitude (1.5 mm double amplitude)
Vibration resistance (Malfunction)	10 to 55 to 10 Hz, 0.75 mm single amplitude (1.5 mm double amplitude)
Shock resistance (destruction)	1000 m/s ²
Shock resistance (Malfunction)	100 m/s ²
Endurance (Mechanical)	10,000,000 operations min. (switching frequency 36,000 operations/h)
Endurance (Electrical)	100,000 operations min. (rated load)
Failure rate	5 VDC 1 mA (failure level: Preference value, Switching frequency: 300 operations per minute)
Ambient temperature (Operating)	-40 to 85 °C (with no freezing or condensation)
Ambient humidity	5 to 85% RH

(Operating)	
Weight	Approx. 22 g
Mounting method	Socket, Soldering

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