

Relay G5V-2, 24V DC/125V AC 2A

Reference: AM4841

EAN13: -

HS code: 85364190



Product attributes:

Product features:

Voltage: 24 V DC

Waterproof grade: IP65

Number of pins: 8-pin

Max. switching current: 2 A

Max. switching voltage: 125V AC/125V DC

Contact type: DPDT

Product description:

The G5V-2 miniature signal relay in the standard version is designed for low-power switching in control and measuring circuits. Thanks to the DPDT configuration (2 changeover contacts), it allows simultaneous switching of two independent branches when the coil is powered by 24 V DC.

Technical specifications

- Model series: G5V-2 (standard version)
- Coil voltage: 24 V DC
- Rated coil current (24 V DC): 20.8 mA
- Coil resistance (24 V DC): 1,152 Ω
- Coil power consumption (standard): 500 mW
- Contact arrangement: DPDT (2c)
- Contact material: Ag + Au-alloy
- Contact type: bifurcated crossbar
- Rated load (resistive, standard): 0.5 A at 125 V AC; 2 A at 30 V DC
- Rated transmitted current (standard): 2 A
- Max. switching voltage (standard): 125 V AC, 125 V DC
- Max. switching current (standard): 2 A
- Contact resistance (standard): 50 m Ω max.
- Switching time: 7 ms max.
- Opening time: 3 ms max.
- Insulation resistance: 1,000 M Ω min. (at 500 V DC)
- Dielectric strength between coil and contacts: 1,000 V AC, 50/60 Hz for 1 min
- Dielectric strength between contacts: 750 V AC, 50/60 Hz for 1 min
- Impulse withstand voltage: 1,500 V (10 x 160 μ s)
- Mechanical life: 15,000,000 switching cycles min.
- Electrical life (standard): 100,000 switching cycles min.
- Ambient operating temperature (standard): -25°C to 65°C (no icing or condensation)
- Operating ambient humidity: 5% to 85%
- Weight: 5g

Functions and features

- Two changeover contacts (DPDT/2c) for universal use in signal and control circuits
- Contacts with noble alloy (Ag + Au-alloy) for stable parameters at low signal levels
- Defined on and off times suitable for fast switching in electronic applications
- Proven insulation and dielectric parameters for safe separation of coil and contacts

Ideal for

- Control and automation systems
- Measurement technology and signal switching
- Low power switching in industrial and laboratory electronics
- PCB application requiring DPDT contacts and a 24 V DC coil

Package contents

- Relay G5V-2, 24 V DC, standard version

Why choose this product?

- Clearly defined coil parameters for power supply design (24 V DC, 1,152 Ω)
- DPDT contacts allow switching of two branches in one element
- Contact system and material suitable for signal applications
- The insulation and dielectric values listed support safe device design

Installation and operating instructions

- When designing the coil control, consider the rated current and power of the coil and suitable switching elements
- To achieve the declared service life, keep the switched load within the nominal values and use a resistive load according to the specification.
- In environments with vibrations and shocks, ensure mechanical fastening and proper joint routing

Safety notice

- When switching 125 V AC or 125 V DC voltages, it is necessary to follow the principles of working with dangerous voltages and ensure appropriate insulation distances in the device.
- Perform installation and service with the power disconnected and in accordance with the requirements of the relevant standards for the application.

