

G2R

Features

- Slim-styled power relay available in both latching and non-latching types
- Creepage distance of 7.874 mm (.31 in.) min. between coil and contact
- Single and dual-winding latching types available
- Plug-in and Quick-connect terminals available
- High-sensitivity (360mW), high capacity (16 A) and bifurcated contact types available
- Highly stable magnetic circuit for latching endurance and excellent resistance to vibration and shock
- Safety-oriented design assuring high surge resistance (15,000 V min. between coil and contact with the single-winding type; 10,000 V min. between coil and contact with the dual coil type)

Contact Data

Contact ratings

One-pole:

Two-pole:

General purpose: 10 A, 250 VAC, 30 VDC (Resistive); 7.5 A, 250 VAC, 5 A, 30 VDC (Inductive); 3 A, 120 VAC, Tungsten (TV-3); 1/3HP, 120 VAC; 1/2HP, 250 VAC; 1/2HP, 277 VAC

High-capacity: 16 A, 250 VAC, 30 VDC (Resistive); 8 A, 250 VAC, 30VDC (Inductive); 3 A, 120 VAC, Tungsten (TV-3); 1/3HP, 120 VAC; 1/2HP, 250 VAC High-sensitivity: 5 A, 250 VAC, 30 VDC (Resistive); 2 A, 250 VAC, 3 A, 30 VDC (Inductive) Latching: 5 A, 250 VAC, 30 VDC (Resistive); 3.5 A, 250 VAC, 2.5 A, 30 VDC (Inductive); 3 A, 120 VAC, Tungsten (TV-3); 1/6HP, 120 VAC; 1/2HP, 250 VAC

General purpose: 5 A, 250 VAC, 30 VDC (Resistive); 2 A, 250 VAC, 3 A, 30 VDC (Inductive); 3 A, 120 VAC, Tungsten (TV-3); 1/6HP, 120 VAC; 1/3HP, 240 VAC High-sensitivity: 3 A, 250 VAC, 30 VDC (Resistive); 1 A, 250 VAC, 1.5 A, 30 VDC (Inductive) Latching: 3 A, 250 VAC, 30 VDC (Resistive); 1.5 A, 250 VAC, 2 A, 30 VDC (Inductive); 3 A, 120 VAC, Tungsten (TV-3); 1/6HP, 120 VAC; 1/3HP, 250 VAC

Contact material AnCdO

Maximum operating voltage 380 VAC, 125 VDC

um operating current

One-noie:

General purpose: 10 A High-capacity: 16 A High-sensitivity: 5 A Latching: 5 A Two-pole: General purpose: 5A

High-sensitivity: 3A Latching: 3A

m switching capacity

One-pole:

General purpose, Resistive: Unsealed - 2,500 VA, 300 W; Sealed - 2,000 VA, 240 W High-capacity, Resistive: Unsealed - 4,000 VA, 480 W High-sensitivity, Resistive: Unsealed/Sealed - 1,250 VA, 150 W Latching, Resistive - 1,250 VA, 150 W

Two-pole:

General purpose, Resistive: Unsealed - 1,250 VA, 150 W; Sealed -1,000 VA, 120 W High-sensitivity, Resistive: Unsealed/Sealed - 750 VA, 90 W Latching, Resistive - 750 VA, 90 W

One-pole:

100 mA at 5 VDC

Two-pale:

10 mA at 5 VDC

Power PCB Relay







Coil Data [% of rated voltage]

Pickup voltage 70% max. (DC & High-Sensitivity DC); 80% max. (AC) Dropout voltage 15% min. (DC & High-Sensitivity DC); 30% min. (AC)

Set voltage 70% max. Reset voltage 70% max. Maximum voltage 110% at 70°C

Characteristic Data

Initial contact resistance

One-noie: $30m\Omega$ max. Two-pole: $50m\Omega$ max. Operate time 15ms max.

Release time

AC coil: 10ms max. DC coil: 5ms max.

Set time - Latching 20ms max. Reset time - Latching 20ms max.

Insulation resistance 1,000M Ω min. (at 500 VDC)

Dielectric strength

One-pole:

Between coil and contacts: 5,000 VAC, 50/60 Hz for 1 minute Across open contacts of same pole: 1,000 VAC, 50/60 Hz for 1 minute

Two-pole:

Between coil and contacts: 5,000 VAC, 50/60 Hz for 1 minute Between contact sets: 3,000 VAC, 50/60 Hz for 1 minute Across open contacts of same pole: 1,000 VAC, 50/60 Hz for 1 minute Latching:

Between set and reset coils: 1,000 VAC, 50/60 Hz for 1 minute

Ambient temperature -40° to 70°C

Service life

Mechanical:

AC coil: 10,000,000 operations min. DC coil: 20,000,000 operations min.

Electrical: 100,000 operations min. for all resistive and inductive ratings with the following

exceptions: One-pole, General purpose, Sealed: 8 A, 250 VAC, 30 VDC

Two-pole, General purpose, Sealed: 4 A, 250 VAC, 30 VDC

Construction Data

Termination Plug-in, Quick Connect, and PCB terminals

Construction Semi-sealed and Fully-sealed

Weight .6 oz (17 g), Latching, Quick Connect Type: .71 oz (20 g)

Packaging method Travs

