

ISO POWER RELAYS SERIES

18 V DC Max 70 A Form A and Form C ISO Power Relays with 12 V Isolated Coil



RA-700112-DN



RC-700112-RN

Description

The ISO Power Relays Series offers a variety of Form A and Form C automotive plug-in relays featuring a 12 V isolated coil. Adhering to the ISO Maxi Relay form factor, these power relays plug into existing boxes along with fuses or other components (sold separately), helping you tailor your vehicle's power distribution box for the capability you need, such as lighting, starting, horn, heating and cooling, or fan control.

Whether you need a relay with resistor or diode suppression or a relay without suppression, the ISO Power Relays Series includes a version to accommodate the requirement of your application.

In addition, there are two different options for circuitry. Form A relays in this series have single-pole, single-throw (SPST) circuitry, while Form C relays in this series have single-pole, double-throw (SPDT) circuitry.

Web Resources

Download 2D print, installation guide and technical resources at: littelfuse.com/ISO-Power

Specifications

| | |
|-----------------------------------|--|
| Current Rating Continuous: | 70A |
| Max Voltage Rating: | 18 VDC |
| Ingress Protection: | IP-40 |
| Mounting Method: | Metal Bracket With Hole Diameter of 0.216"(5.5 MM) |
| Coil Voltage: | 12 VDC |
| Coil Impedance: | 80 Ω \pm 10% |
| Contacts: | Silver Alloy |
| Input Terminals: | 9.5mm Tin Plated Blade Terminals |
| Temperature: | -40°C to 85°C |
| Circuitry: | SPST |
| Housing: | Black Plastic Body |
| Insulation Resistance: | 100M Ω Min |

Applications

- Lighting Control
- Starting Control
- Horn Control
- Heating and Cooling Control
- Fan Control

Features and Benefits

- Broad offering of Form A (SPST) and Form C (SPDT) relay options
- Continuous current rating of 70 A
- 12 V dc isolated coil
- Coil impedance of 80 ohms
- Suppression options include resistor, diode, and no suppression
- IP40 ingress protection rating
- Includes a metal bracket with a 0.216" (5.5 mm) hole diameter for panel mounting

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Ordering Information

| PART NUMBER | DESCRIPTION | CONNECTOR | OUTPUT TERMINALS |
|-----------------|--|----------------------------------|---|
| RA-700112-DN | 18 V Max 70 A Form A ISO Power Relay with Diode | 6.3mm Tin Plated Blade Terminals | 9.5mm Tin Plated Blade Terminals |
| RA-700112-DN-BX | 18 V Max 70 A Form A ISO Power Relay with Diode - Boxed | 6.3mm Tin Plated Blade Terminals | 9.5mm Tin Plated Blade Terminals |
| RA-700112-NN | 18 V Max 70 A Form A ISO Power Relay with No Suppression | 6.3mm Tin Plated Blade Terminals | 9.5mm Tin Plated Blade Terminals |
| RA-700112-NN-BX | 18 V Max 70 A Form A ISO Power Relay with No Suppression - Boxed | 6.3mm Tin Plated Blade Terminals | 9.5mm Tin Plated Blade Terminals |
| RA-700112-RN | 18 V Max 70 A Form A ISO Power Relay with Resistor | 6.3mm Tin Plated Blade Terminals | 9.5mm Tin Plated Blade Terminals |
| RA-700112-RN-BX | 18 V Max 70 A Form A ISO Power Relay with Resistor - Boxed | 6.3mm Tin Plated Blade Terminals | 9.5mm Tin Plated Blade Terminals |
| RC-700112-DN | 18 V Max 70 A Form C ISO Power Relay with Diode | 6.3mm Tin Plated Blade Terminals | Normally Open Output is 9.5mm Tin Plated Blade Terminals Normally Closed Output is a 6.3mm Tin plated blade terminal |
| RC-700112-DN-BX | 18 V Max 70 A Form C ISO Power Relay with Diode - Boxed | 6.3mm Tin Plated Blade Terminals | Normally Open Output is 9.5mm Tin Plated Blade Terminals Normally Closed Output is a 6.3mm Tin plated blade terminal |
| RC-700112-NN | 18 V Max 70 A Form C ISO Power Relay with No Suppression | 6.3mm Tin Plated Blade Terminals | Normally Open Output is 9.5mm Tin Plated Blade Terminals Normally Closed Output is a 6.3mm Tin plated blade terminal |
| RC-700112-NN-BX | 18 V Max 70 A Form C ISO Power Relay with No Suppression - Boxed | 6.3mm Tin Plated Blade Terminals | Normally Open Output is 9.5mm Tin Plated Blade Terminals Normally Closed Output is a 6.3mm Tin plated blade terminal |
| RC-700112-RN | 18 V Max 70 A Form C ISO Power Relay with Resistor | 6.3mm Tin Plated Blade Terminals | Normally Open Output is 9.5mm Tin Plated Blade Terminals Normally Closed Output is a 6.3mm Tin plated blade terminal |
| RC-700112-RN-BX | 18 V Max 70 A Form C ISO Power Relay with Resistor - Boxed | 6.3mm Tin Plated Blade Terminals | Normally Open Output is 9.5mm Tin Plated Blade Terminals Normally Closed Output is a 6.3mm Tin plated blade terminal |