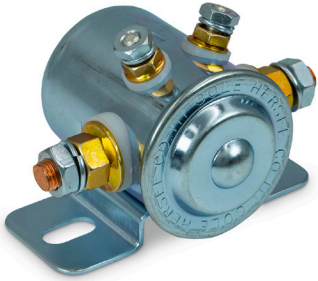
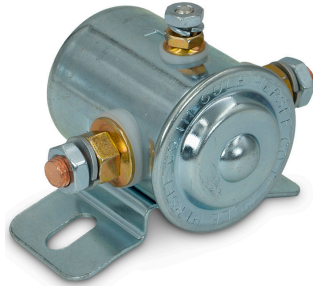


# INTERMITTENT-DUTY SPST SERIES

12 V and 36 V Max Normally Open Solenoid Relays



24008



24044

## Description

Our Intermittent-Duty SPST Series 12 V and 36 V Max Solenoid Relays are available in a wide variety of configurations to meet various remote-switching and starting applications in heavy-duty trucks, buses, marine vehicles, and more.

Depending on the model, these Cole Hersee brand solenoids may have a plated steel housing, plated steel housing with a PVC coating, or phenolic housing with plated steel parts.

In addition, you will find solenoids in this series that are rated for 120 A make, 65 A break for 10 seconds on, 30 minutes off; 500 A make, 100 A break; or 750 A make, 100 A break for 10 seconds on, 20 minutes off.

Models within this intermittent-duty solenoid series may have grounded or insulated coils rated for 6 V dc, 12 V dc, or 24 V dc.

## Web Resources

Download 2D print, installation guide and technical resources at: [littelfuse.com/IntermittentRelays](http://littelfuse.com/IntermittentRelays)

## Specifications

|                            |                       |
|----------------------------|-----------------------|
| <b>Max Voltage Rating:</b> | 12 VDC, 36 VDC        |
| <b>Coil Voltage:</b>       | 6 VDC, 12 VDC, 24 VDC |
| <b>Coil Impedance:</b>     | 3.8 $\Omega$          |
| <b>Normal Position:</b>    | Normally Open         |
| <b>Power Terminals:</b>    | STUD 5/16" -24        |
| <b>Coil Terminals:</b>     | STUD #10-32           |

## Applications

- Heavy-Duty Trucks
- Emergency Vehicles
- Construction
- Marine
- Buses

## Features and Benefits

- Intermittent-duty solenoid relays with single-pole, single-throw (SPST) circuitry and normally open contacts available in a wide variety of configurations to meet various commercial vehicle applications
- Different housings are available, including plated steel, plated steel with a PVC exterior coating, and molded phenolic with plated steel parts
- Configuration may be rated for 120 A make, 65 A break for 10 seconds on, 30 minutes off; 500 A make, 100 A break; or 750 A make, 100 A break for 10 seconds on, 20 minutes off
- Models are available with a 6 V dc, 12 V dc, or 24 V dc coil rating
- May have an insulated or grounded coil, depending on the model
- Available in three-stud and four-stud solenoid styles
- Some models have a flat bracket style, while others feature a curved bracket style

# INTERMITTENT-DUTY SPST SERIES

## 12 V and 36 V Max Normally Open Solenoid Relays

### Ordering Information

| PART NUMBER | DESCRIPTION   | CURRENT RATING CONTINUOUS     | COIL IMPEDANCE | COIL TYPE | HOUSING           | MOUNTING METHOD | HARDWARE  |
|-------------|---|-------------------------------|----------------|-----------|-------------------|-----------------|---|
| 24008       | 36 V 120 A Insulated Four-Stud Solenoid with Plated Steel Housing   | 120 AMPS MAKE, 65 AMPS BREAK  | 29 OHMS        | INSULATED | Plated Steel Case | Falanged Flat   | ASSEMBLED,<br>2 HEX NUT, 5/16-24<br>2 HEX NUT, #10-32<br>2 LOCKWASHER 12<br>2 LOCKWASHER 5/16 |
| 24008-BX    | 36 V 120 A Insulated Four-Stud Solenoid with Plated Steel Housing - Boxed   | 120 AMPS MAKE, 65 AMPS BREAK  | 29 OHMS        | INSULATED | Plated Steel Case | Falanged Flat   | ASSEMBLED,<br>2 HEX NUT, 5/16-24<br>2 HEX NUT, #10-32<br>2 LOCKWASHER 12<br>2 LOCKWASHER 5/16 |
| 24021       | 12 V 500 A Grounded Four-Stud Solenoid with Phenolic Housing with Ignition Coil Resistor Shorting Circuit         | 500 AMPS MAKE, 100 AMPS BREAK | 3.8 OHMS       | GROUNDED  | Molded Phenolic   | Falanged Flat   | ASSEMBLED,<br>2 HEX NUT, 5/16-24<br>2 HEX NUT, #10-32<br>2 LOCKWASHER 12<br>2 LOCKWASHER 5/16 |
| 24021-BX    | 12 V 500 A Grounded Four-Stud Solenoid with Phenolic Housing with Ignition Coil Resistor Shorting Circuit - Boxed | 500 AMPS MAKE, 100 AMPS BREAK | 3.8 OHMS       | GROUNDED  | Molded Phenolic   | Falanged Flat   | ASSEMBLED,<br>2 HEX NUT, 5/16-24<br>2 HEX NUT, #10-32<br>2 LOCKWASHER 12<br>2 LOCKWASHER 5/16 |
| 24022       | 12 V 500 A Grounded Three-Stud Solenoid with Phenolic Housing   | 500 AMPS MAKE, 100 AMPS BREAK | 3.8 OHMS       | GROUNDED  | Molded Phenolic   | Falanged Flat   | ASSEMBLED,<br>2 HEX NUT, 5/16-24<br>1 HEX NUT, #10-32<br>2 LOCKWASHER 12<br>1 LOCKWASHER 5/16 |
| 24022-BX    | 12 V 500 A Grounded Three-Stud Solenoid with Phenolic Housing - Boxed   | 500 AMPS MAKE, 100 AMPS BREAK | 3.8 OHMS       | GROUNDED  | Molded Phenolic   | Falanged Flat   | ASSEMBLED,<br>2 HEX NUT, 5/16-24<br>1 HEX NUT, #10-32<br>2 LOCKWASHER 12<br>1 LOCKWASHER 5/16 |
| 24023       | 12 V Insulated Four-Stud Solenoid with Phenolic Housing   |                               | 3.8 OHMS       | INSULATED | Molded Phenolic   | Falanged Flat   | ASSEMBLED,<br>2 HEX NUT, 5/16-24<br>2 HEX NUT, #10-32<br>2 LOCKWASHER 12<br>2 LOCKWASHER 5/16 |
| 24023-BX    | 12 V Insulated Four-Stud Solenoid with Phenolic Housing - Boxed   |                               | 3.8 OHMS       | INSULATED | Molded Phenolic   | Falanged Flat   | ASSEMBLED,<br>2 HEX NUT, 5/16-24<br>2 HEX NUT, #10-32<br>2 LOCKWASHER 12<br>2 LOCKWASHER 5/16 |
| 24037       | 12 V 750 A Grounded Three-Stud Solenoid with Plated Steel Housing   | 750 AMPS MAKE, 100 AMPS BREAK | 4.4 OHMS       | GROUNDED  | Plated Steel Case | Falanged Flat   | BAGGED,<br>2 HEX NUT, 5/16-24<br>1 HEX NUT, #10-32<br>2 LOCKWASHER 12<br>1 LOCKWASHER 5/16    |
| 24037-BX    | 12 V 750 A Grounded Three-Stud Solenoid with Plated Steel Housing - Boxed   | 750 AMPS MAKE, 100 AMPS BREAK | 4.4 OHMS       | GROUNDED  | Plated Steel Case | Falanged Flat   | BAGGED,<br>2 HEX NUT, 5/16-24<br>1 HEX NUT, #10-32<br>2 LOCKWASHER 12<br>1 LOCKWASHER 5/16    |
| 24041       | 12 V 750 A Grounded Three-Stud Solenoid with 6 V Coil   | 750 AMPS MAKE, 100 AMPS BREAK | 1.6 OHMS       | GROUNDED  | Plated Steel Case | Falanged Flat   | ASSEMBLED,<br>2 HEX NUT, 5/16-24<br>1 HEX NUT, #10-32<br>2 LOCKWASHER 12<br>1 LOCKWASHER 5/16 |
| 24041-BX    | 12 V 750 A Grounded Three-Stud Solenoid with 6 V Coil - Boxed   | 750 AMPS MAKE, 100 AMPS BREAK | 1.6 OHMS       | GROUNDED  | Plated Steel Case | Falanged Flat   | ASSEMBLED,<br>2 HEX NUT, 5/16-24<br>1 HEX NUT, #10-32<br>2 LOCKWASHER 12<br>1 LOCKWASHER 5/16 |
| 24044       | 12 V 750 A Grounded Three-Stud Solenoid with Curved Bracket   | 750 AMPS MAKE, 100 AMPS BREAK | 4.4 OHMS       | GROUNDED  | Plated Steel Case | Falanged Curved | BAGGED,<br>2 HEX NUT, 5/16-24<br>1 HEX NUT, #10-32<br>2 LOCKWASHER 12<br>1 LOCKWASHER 5/16    |
| 24044-BX    | 12 V 750 A Grounded Three-Stud Solenoid with Curved Bracket - Boxed   | 750 AMPS MAKE, 100 AMPS BREAK | 4.4 OHMS       | GROUNDED  | Plated Steel Case | Falanged Curved | BAGGED,<br>2 HEX NUT, 5/16-24<br>1 HEX NUT, #10-32<br>2 LOCKWASHER 12<br>1 LOCKWASHER 5/16    |
| 24047       | 12 V 750 A Insulated Four-Stud Solenoid with Plated Steel Housing   | 750 AMPS MAKE, 100 AMPS BREAK | 4.4 OHMS       | INSULATED | Plated Steel Case | Falanged Flat   | BAGGED,<br>2 HEX NUT, 5/16-24<br>2 HEX NUT, #10-32<br>2 LOCKWASHER 12<br>2 LOCKWASHER 5/16    |
| 24047-BX    | 12 V 750 A Insulated Four-Stud Solenoid with Plated Steel Housing - Boxed   | 750 AMPS MAKE, 100 AMPS BREAK | 4.4 OHMS       | INSULATED | Plated Steel Case | Falanged Flat   | BAGGED,<br>2 HEX NUT, 5/16-24<br>1 HEX NUT, #10-32<br>2 LOCKWASHER 12<br>1 LOCKWASHER 5/16    |