

# Continuous-Duty SPST Series

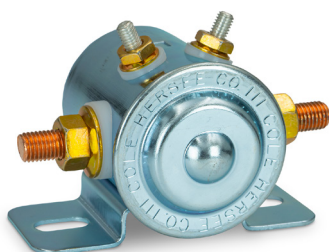
## Solenoid Relays



24059-08



24117



24063

Continuous-Duty SPST Series Solenoid Relays are designed with single-pole, single-throw (SPST) circuitry and come in a wide variety of configurations to meet the electrical and environmental requirements of various applications.

With continuous current ratings of 65A, 85A, 110A, or 200A and a range of coil voltages available, the Continuous-Duty SPST series makes it simple to find the right heavy-duty solenoid relay for high current loads.

Select models of Continuous-Duty SPST series solenoid relays come with a PVC coating, which seals the relay to withstand moisture and dust to an IP66 rating.

In addition, select models are available with a potted interior, which provides added protection for the coil and studs. These models are ideal for applications where vehicle vibration is an issue.

### Web Resources

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

### Specifications

<b>Max Voltage Rating:</b>	12, 24, 36V DC
<b>Current Rating Continuous:</b>	65A, 85A, 110A, 200A
<b>Coil Voltage:</b>	6, 12, 24, 36V DC
<b>Coil Type:</b>	Insulated
<b>Circuitry:</b>	SPST
<b>Temperature:</b>	-40°C to 85°C
<b>Housing:</b>	Plated Steel Housing / Plated steel Housing, PVC coated
<b>Recommended Torque:</b>	#10-32: 15 in-lbs (1.69 Nm) 5/16-24: 25 in-lbs (3.95 Nm)
<b>Coil Terminals:</b>	Steel Plated Stud #10-32
<b>Power Terminals:</b>	Copper Stud 5/16"-24
<b>Hardware:</b>	Bagged, 2x Hex Nut 5/16-24 2x Lock Washer 5/16 2x Hex Nut #10-32 2x Lock Washer #10

### Applications

- Construction Vehicles
- Material Handling
- Agricultural Equipment
- Motor and Inductive Loads

### Features and Benefits

- Configurations with 6V, 12V, 24V, or 36V coil ratings are available
- Models are available with a 65A, 85A, 110A, or 200A continuous current rating for handling high current loads
- Insulated and grounded options allow you to match the requirements of your application
- SPST or latched SPST circuitry, depending on the model
- Large 5/16"-24 copper power studs and small #10-32 steel coil studs (for the control circuit) are heavy and durable
- Plated steel housing with PVC-coated options available for applications requiring a sealed solenoid to withstand moisture and dust to an IP66 rating
- Potted interior on select models offers vibration resistance

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## Solenoid Relays

### Ordering Information

PART NUMBER	DESCRIPTION	COIL IMPEDANCE	NORMAL POSITION	MOUNTING METHOD
24059	36 V 85 A SPST Solenoid Relay with Insulated 12 V Coil	17.5 $\Omega$	Normally Open	BRACKET STYLE FLAT with holes of 5/16" x 19/32" (7.9 x 15.1 mm) on 2 13/64" (56 mm) centers
24059-BP	12 V 65 A SPST Insulated Solenoid Relay - UL & CE Approved	17.5 $\Omega$	Normally Open	BRACKET STYLE FLAT with holes of 5/16" x 19/32" (7.9 x 15.1 mm) on 2 13/64" (56 mm) centers
24059-BX	12 V 65 A SPST Insulated Solenoid Relay - UL & CE Approved - Blister Pack	17.5 $\Omega$	Normally Open	BRACKET STYLE FLAT with holes of 5/16" x 19/32" (7.9 x 15.1 mm) on 2 13/64" (56 mm) centers
24059-08	12 V 65 A SPST Insulated Solenoid Relay - UL & CE Approved - Boxed	17.5 $\Omega$	Normally Open	BRACKET STYLE FLAT with holes of 5/16" x 19/32" (7.9 x 15.1 mm) on 2 13/64" (56 mm) centers
24059-08-BX	36 V 85 A SPST Solenoid Relay with Insulated 12 V Coil - Blister Pack	17.5 $\Omega$	Normally Open	BRACKET STYLE FLAT with holes of 5/16" x 19/32" (7.9 x 15.1 mm) on 2 13/64" (56 mm) centers
24059-15	36 V 85 A SPST Solenoid Relay with Insulated 12 V Coil - Boxed	17.5 $\Omega$	Normally Open	BRACKET STYLE FLAT with holes of 5/16" x 19/32" (7.9 x 15.1 mm) on 2 13/64" (56 mm) centers
24063	36 V 85 A SPST Solenoid Relay with 24 V Insulated Coil	71 $\Omega$	Normally Open	BRACKET STYLE FLAT with holes of 5/16" x 19/32" (7.9 x 15.1 mm) on 2 13/64" (56 mm) centers
24063-BX	24 V 65 A SPST Insulated Solenoid Relay with PVC-Coated Housing - UL & CE Approved	71 $\Omega$	Normally Open	BRACKET STYLE FLAT with holes of 5/16" x 19/32" (7.9 x 15.1 mm) on 2 13/64" (56 mm) centers
24063-08	24 V 65 A SPST Insulated Solenoid Relay with PVC-Coated Housing - UL & CE Approved - Boxed	71 $\Omega$	Normally Open	BRACKET STYLE FLAT with holes of 5/16" x 19/32" (7.9 x 15.1 mm) on 2 13/64" (56 mm) centers
24063-08-BX	36 V 85 A SPST Solenoid Relay with 24 V Insulated Coil - Boxed	71 $\Omega$	Normally Open	BRACKET STYLE FLAT with holes of 5/16" x 19/32" (7.9 x 15.1 mm) on 2 13/64" (56 mm) centers
24080	36 V 85 A SPST Insulated Solenoid Relay	130 $\Omega$	Normally Open	BRACKET STYLE FLAT with holes of 5/16" x 19/32" (7.9 x 15.1 mm) on 2 13/64" (56 mm) centers
24080-BX	36 V 85 A SPST Insulated Solenoid Relay - Boxed	130 $\Omega$	Normally Open	BRACKET STYLE FLAT with holes of 5/16" x 19/32" (7.9 x 15.1 mm) on 2 13/64" (56 mm) centers
24082	36 V 85 A SPST Grounded Solenoid Relay with 12 V Coil	17.5 $\Omega$	Normally Open	BRACKET STYLE CURVED with holes of 5/16" x 19/32" (7.9 x 15.1 mm) on 2 13/64" (56 mm) centers
24082-BX	36 V 85 A SPST Grounded Solenoid Relay with 12 V Coil - Boxed	17.5 $\Omega$	Normally Open	BRACKET STYLE CURVED with holes of 5/16" x 19/32" (7.9 x 15.1 mm) on 2 13/64" (56 mm) centers
24097	36 V 85 A SPST Insulated Solenoid Relay with 6 V Coil	4.2 $\Omega$	Normally Open	BRACKET STYLE FLAT with holes of 5/16" x 19/32" (7.9 x 15.1 mm) on 2 13/64" (56 mm) centers
24106	36 V 85 A SPST Grounded Solenoid Relay with 12 V Coil & Flat Bracket	17.5 $\Omega$	Normally Open	BRACKET STYLE FLAT with holes of 5/16" x 19/32" (7.9 x 15.1 mm) on 2 13/64" (56 mm) centers
24106-BX	36 V 85 A SPST Grounded Solenoid Relay with 12 V Coil & Flat Bracket - Boxed	17.5 $\Omega$	Normally Open	BRACKET STYLE FLAT with holes of 5/16" x 19/32" (7.9 x 15.1 mm) on 2 13/64" (56 mm) centers
24107	36 V 85 A SPST Three-Stud Insulated Solenoid Relay with 24 V Coil	71 $\Omega$	Normally Open	BRACKET STYLE FLAT with holes of 5/16" x 19/32" (7.9 x 15.1 mm) on 2 13/64" (56 mm) centers
24115	36 V 85 A SPST Three-Stud Insulated Solenoid Relay with 12 V Coil	17.5 $\Omega$	Normally Open	BRACKET STYLE FLAT with holes of 5/16" x 19/32" (7.9 x 15.1 mm) on 2 13/64" (56 mm) centers
24115-BX	36 V 85 A SPST Three-Stud Insulated Solenoid Relay with 12 V Coil - Boxed	17.5 $\Omega$	Normally Open	BRACKET STYLE FLAT with holes of 5/16" x 19/32" (7.9 x 15.1 mm) on 2 13/64" (56 mm) centers
24117	12 V 65 A SPST Insulated Solenoid Relay with PVC-Coated Housing	17.5 $\Omega$	Normally Open	BRACKET STYLE FLAT with holes of 5/16" x 19/32" (7.9 x 15.1 mm) on 2 13/64" (56 mm) centers
24117-BX	12 V 65 A SPST Insulated Solenoid Relay with PVC-Coated Housing - Boxed	17.5 $\Omega$	Normally Open	BRACKET STYLE FLAT with holes of 5/16" x 19/32" (7.9 x 15.1 mm) on 2 13/64" (56 mm) centers
24117-01	36 V 85 A SPST Insulated Solenoid Relay with 12 V Coil & PVC-Coated Housing	17.5 $\Omega$	Normally Open	BRACKET STYLE FLAT with holes of 5/16" x 19/32" (7.9 x 15.1 mm) on 2 13/64" (56 mm) centers
24117-01-BP	36 V 85 A SPST Insulated Solenoid Relay with 12 V Coil & PVC-Coated Housing - Blister Pack	17.5 $\Omega$	Normally Open	BRACKET STYLE FLAT with holes of 5/16" x 19/32" (7.9 x 15.1 mm) on 2 13/64" (56 mm) centers
24117-01-BX	36 V 85 A SPST Insulated Solenoid Relay with 12 V Coil & PVC-Coated Housing - Boxed	17.5 $\Omega$	Normally Open	BRACKET STYLE FLAT with holes of 5/16" x 19/32" (7.9 x 15.1 mm) on 2 13/64" (56 mm) centers

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## Solenoid Relays

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PART NUMBER	DESCRIPTION	COIL IMPEDANCE	NORMAL POSITION	MOUNTING METHOD
24124	36 V 85 A SPST Grounded Solenoid Relay with 24 V Coil & Flat Bracket	71 $\Omega$	Normally Open	BRACKET STYLE FLAT with holes of 5/16" x 19/32" (7.9 x 15.1 mm) on 2 13/64" (56 mm) centers
24124-BX	36 V 85 A SPST Grounded Solenoid Relay with 24 V Coil & Flat Bracket - Boxed	71 $\Omega$	Normally Open	BRACKET STYLE FLAT with holes of 5/16" x 19/32" (7.9 x 15.1 mm) on 2 13/64" (56 mm) centers
24213	12 V 200 A SPST Insulated Solenoid Relay	17.5 $\Omega$	Normally Open	BRACKET STYLE FLAT with holes of 5/16" x 19/32" (7.9 x 15.1 mm) on 2 13/64" (56 mm) centers
24213-BX	12 V 200 A SPST Insulated Solenoid Relay - Boxed	17.5 $\Omega$	Normally Open	BRACKET STYLE FLAT with holes of 5/16" x 19/32" (7.9 x 15.1 mm) on 2 13/64" (56 mm) centers
24213-01	12 V 200 A SPST Insulated Solenoid Relay with Potted Interior	17.5 $\Omega$	Normally Open	BRACKET STYLE FLAT with holes of 5/16" x 19/32" (7.9 x 15.1 mm) on 2 13/64" (56 mm) centers
24213-03	12 V 200 A SPST Insulated Solenoid Relay with PVC-Coated Housing	17.5 $\Omega$	Normally Open	BRACKET STYLE FLAT with holes of 5/16" x 19/32" (7.9 x 15.1 mm) on 2 13/64" (56 mm) centers
24214	24 V 200 A SPST Insulated Solenoid Relay	71 $\Omega$	Normally Open	BRACKET STYLE FLAT with holes of 5/16" x 19/32" (7.9 x 15.1 mm) on 2 13/64" (56 mm) centers
24214-BX	24 V 200 A SPST Insulated Solenoid Relay - Boxed	71 $\Omega$	Normally Open	BRACKET STYLE FLAT with holes of 5/16" x 19/32" (7.9 x 15.1 mm) on 2 13/64" (56 mm) centers
24063-06	36 V 85 A SPST Insulated Solenoid Relay with IP66 Rating	71 $\Omega$	Normally Open	BRACKET STYLE FLAT with holes of 5/16" x 19/32" (7.9 x 15.1 mm) on 2 13/64" (56 mm) centers
24106-07	36 V 85 A SPST Grounded Solenoid Relay with IP66 Rating	17.5 $\Omega$	Normally Open	BRACKET STYLE FLAT with holes of 5/16" x 19/32" (7.9 x 15.1 mm) on 2 13/64" (56 mm) centers
24200	36 V 110 A SPST Latching Solenoid Relay with 12 V Coil	3.1 $\Omega$	LATCHED	BRACKET STYLE FLAT with holes of 5/16" x 19/32" (7.9 x 15.1 mm) on 2 13/64" (56 mm) centers