

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 65 A, 85 A, 110 A, or 200 A 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

Specifications

Max Voltage Rating:	12, 24, 36 VDC
Current Rating Continuous:	65 A, 85 A, 110 A, 200 A
Coil Voltage:	6, 12, 24, 36 VDC
Coil Type:	Insulated
Circuitry:	SPST
Temperature:	-40°C to 85°C
Housing:	Plated Steel Housing / Plated steel Housing, PVC coated
Recommended Torque:	#10-32: 15 in-lbs (1.69 Nm) 5/16-24: 25 in-lbs (3.95 Nm)
Coil Terminals:	Steel Plated Stud #10-32
Power Terminals:	Copper Stud 5/16"-24
Hardware:	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 6 V, 12 V, 24 V, or 36 V coil ratings are available
- Models are available with a 65 A, 85 A, 110 A, or 200 A 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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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 Ω	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 Ω	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 Ω	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 Ω	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-BP	36 V 85 A SPST Insulated Solenoid Relay with Potted Interior & PVC-Coated Housing	17.5 Ω	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 Ω	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 Ω	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 Ω	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 Ω	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 Ω	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 Ω	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 Ω	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 Ω	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 Ω	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 Ω	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 Ω	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
24097-BX	36 V 85 A SPST Insulated Solenoid Relay with 6 V Coil - Boxed	4.2 Ω	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 Ω	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 Ω	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 Ω	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 Ω	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 Ω	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 Ω	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 Ω	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 Ω	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 Ω	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 Ω	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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24124	36 V 85 A SPST Grounded Solenoid Relay with 24 V Coil & Flat Bracket	71 Ω	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 Ω	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 Ω	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-BP	12 V 200 A SPST Insulated Solenoid Relay - Blister Pack	17.5 Ω	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 Ω	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 Ω	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 Ω	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 Ω	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 Ω	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 Ω	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 Ω	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 Ω	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
24200-BX	36 V 110 A SPST Latching Solenoid Relay with 12 V Coil - Boxed	3.1 Ω	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