

CONTINUOUS DUTY SOLENOIDS

6-32V DC • 65-200A • Uncoated or PVC-Coated



Specifications Overview

| | |
|--------------------------------|---------------------------------|
| Voltage Ratings: | 6, 12, 24, or 36V DC |
| Max Continuous Current: | 65, 85, or 200A |
| Circuitry: | Single Pole Single Throw (SPST) |
| Contact Form: | Normally Open |
| Contact Terminals: | Copper or Silver |
| Operating Temp: | -40° to +85°C |
| Battery Terminals: | 5/16 - 24 (35 in-lbs / 4.0 Nm) |
| Coil Studs: | 10-32 (15 in-lbs / 1.7 Nm) |

Description

Minimizes arcing and contact oxidation, maintains high performance. Universal use with part numbers available to handle loads up to 200A.

PVC Coated option available for a more environmentally-sealed product. Coated solenoids withstand moisture and dust to IP66.

Where vehicle vibration is a problem, we recommend the 24213-01 in which the internal windings are potted for added protection of coil leads and studs.

Web Resources

Download 2D prints and technical resources at:
littelfuse.com/solenoids

Electrical Schematic



Diagram 1



Diagram 2



Diagram 3



Diagram 4

Mechanical Specifications

- SPST Normally open contacts.
- Plated steel housing. Hexnuts and washers included.
- Large (power circuit) battery studs; copper 5/16" -24 thread.
- Small (control circuit) coil studs; steel 10-32 thread.
- Bracket mounting holes 5/16 X 19/32" (7.9 X 15.1mm) on 2 13/64" centers (56.0mm).
- Available with PVC coated exterior or Potted Coil interiors for harsh environments or vibration resistance.
- Caution: Never unscrew the inner hexnuts on the studs. These keep the stud and inner wiring in place.

Ordering Information

See chart on page 2

Datasheet Replaces Hotfeed Number D-500

CONTINUOUS DUTY SOLENOIDS



A



B



C



D

Ordering Information

| PART NUMBERS | | | VOLTAGE | AMPS | INSULATED / GROUNDED | CIRCUITRY | FORM / CONTACTS | CONTACT MATERIAL | PVC COATED | UL LISTED | POTTED COIL | IMAGE | DIAGRAM | NOTES |
|--------------|-------------|-------------|---------|-----------|----------------------|-----------|-----------------|------------------|------------|-----------|-------------|-------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| BULK | BOXED | RETAIL | | | | | | | | | | | | |
| 24080 | 24080-BX | - | 36 | 85 | Insulated | SPST | NO | Copper | | | | A | 1 | |
| 24080-01 | - | - | | 65 | Insulated | SPST | NO | Copper | | • | | A | 1 | Intermittent rating: 125A Make, 65A Break 10 sec on, 30 min off - UL Requirement |
| 24200 | 24200-BX | - | | 110 | Insulated | SPST | NO | Copper | | | | A | Refer to 2D Print | Momentary switch, latching solenoid |
| 24008 | 24008-BX | - | 24 | 120 | Insulated | SPST | NO | Copper | | | | A | | Special spring for stronger contact return force |
| 24008-03 | - | - | | 120 | Insulated | SPST | NO | Copper | | | | A | | Components shipped unassembled |
| 24063 | 24063-BX | - | | 85 | Insulated | SPST | NO | Silver | | | | A | 1 | |
| 24063-08 | 24063-08-BX | - | | 85 | Insulated | SPST | NO | Copper | • | • | | B | 1 | |
| 24214 | 24214-BX | - | | 200 | Insulated | SPST | NO | Silver | | | | A | 1 | |
| 24107 | 24107-BX | - | | 85 | Insulated | SPST | NO | Copper | | | | C | 2 | |
| 24124 | 24124-BX | - | | 85 | Grounded | SPST | NO | Copper | | | | C | 4 | |
| 24524-10D | - | - | | 100 | Insulated | SPST | NO | Copper | | | | Refer to 2D Print | Refer to 2D Print | |
| 24037 | 24037-BX | - | | 750 | Grounded | SPST | NO | Copper | | | | C | 4 | |
| 24044 | 24044-BX | - | | 750 | Grounded | SPST | NO | Copper | | | | D | 4 | |
| 24047 | 24047-BX | - | 750 | Insulated | SPST | NO | Copper | | | | A | 1 | | |
| 24059 | 24059-BX | 24059-BP | 85 | Insulated | SPST | NO | Copper | | | | A | 1 | | |
| 24059-08 | 24059-08-BX | 24059-08-BP | 65 | Insulated | SPST | NO | Copper | | • | | A | 1 | Intermittent rating: 750A Make, 100A Break 10 sec on, 30 min off - UL Requirement | |
| 24106-07 | - | - | 12 | 85 | Grounded | SPST | NO | Copper | | | | C | 4 | P/N, Date Code, Voltage ink stamped on surface |
| 24115 | 24115-BX | - | | 85 | Insulated | SPST | NO | Copper | | | | C | 3 | |
| 24117 | 24117-BX | - | | | Insulated | SPST | NO | Copper | • | | | B | 1 | |
| 24117-01 | 24117-01-BX | 24117-01-BP | | | Insulated | SPST | NO | Copper | • | | | B | 1 | |
| 24213 | 24213-BX | - | | 200 | Insulated | SPST | NO | Silver | | | | A | 1 | |
| 24213-01 | - | - | | 200 | Insulated | SPST | NO | Silver | | | • | B | 1 | IP66 |
| 24213-03 | - | - | | 200 | Insulated | SPST | NO | Silver | • | | | B | 1 | Black PVC Coating • IP66 |
| 24106 | 24106-BX | - | | 85 | Grounded | SPST | NO | Copper | | | | C | 4 | |
| 24082 | 24082-BX | - | | 85 | Grounded | SPST | NO | Copper | | | | D | 4 | Curved Bracket |
| 24097 | 24097-BX | - | | 6 | 85 | Grounded | SPST | NO | Copper | | | | A | 1 |



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