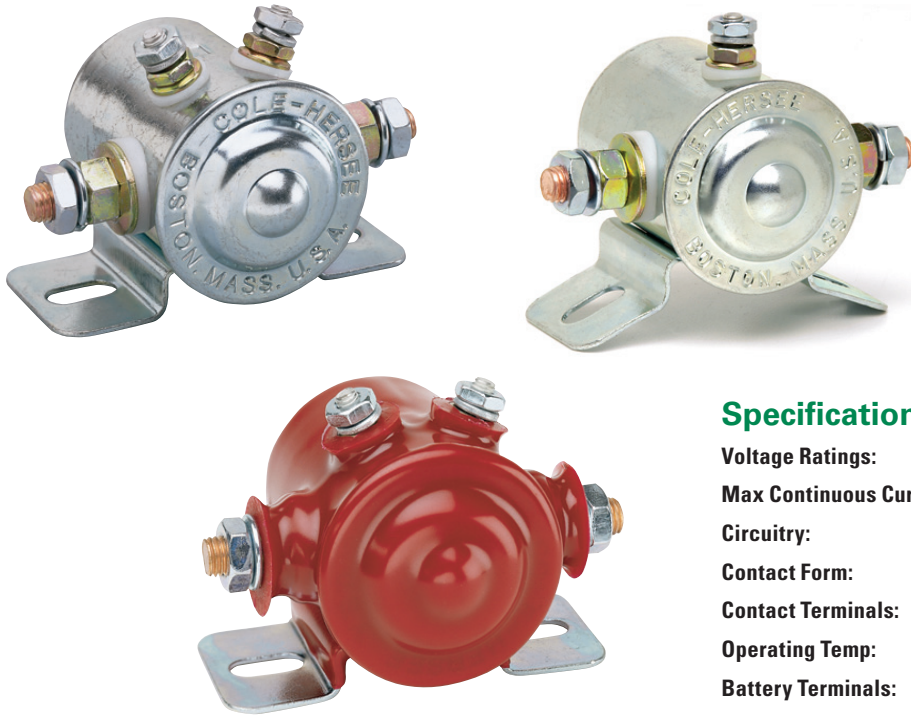


# CONTINUOUS DUTY SOLENOIDS

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



## Specifications Overview

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