# M-290 SERIES BATTERY DISCONNECT SWITCHES

Cole Hersee
A Littelfuse Brand

M-290-01

## Features and Benefits

- Marine grade, brass case
- O-ring Sealed options in bushing
- UL listed P/Ns
- Compact design
- Silver plated contact options for high conductivity and low contact resistance

## Specifications Overview

| | |
|---|---|
| **Max Input Current:** | 1000A intermittent for 15 sec ON, 5 min OFF |
| **Voltage Rating:** | 32V DC |
| **Housing:** | Brass |
| **Contacts:** | Two silver plated brass 3/8-24 studs<br>Two brass 10-32 studs |
| **Circuitry:** | DPST |

## Applications

- Commercial Marine
- Boating
- Emergency Vehicles
- Heavy Duty Truck
- Bus/Transit

## Description

M-290 Series Battery Disconnect Switches are marine grade, manual, master disconnect switches. The M-290 switches shown are 36V Dual Pole, Single Throw (DPST) and can be used to disconnect the battery from the vehicle electrical system. The shown switches have a 1000A intermittent current rating for 15 sec ON, 5 min OFF. Disconnecting the battery from the electrical system prevents potential thermal events and ensures system shut down during maintenance or emergency. Battery disconnect switches also prevent parasitic loads from draining the battery during inactivity.

## Web Resources

Download 2D print and technical resources at:
**littelfuse.com/M290**

## Recommended Products

**24505 & 24505-01**
**Lockout Lever Kit**

## Ordering Information

| PART NUMBER | DESCRIPTION | AMPERAGE | UL LISTED |
|---|---|---|---|
| M-290-01 * | 36V Marine Grade Battery Disconnect Switch | 175A | |
| M-290-05 * | 36V Marine Grade Battery Disconnect Switch | 125A | • |

* Box and Retail Blister Pack Available

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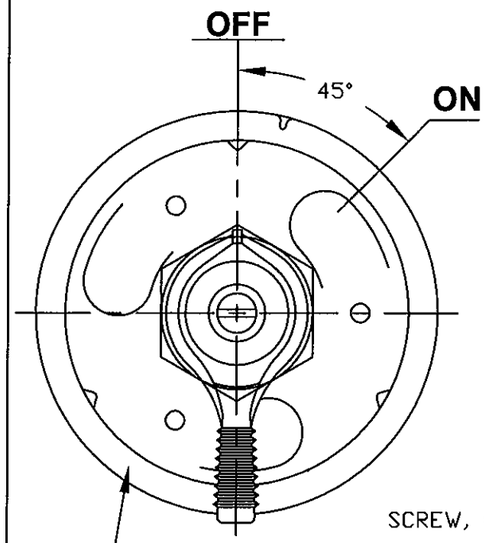
Rev: 032019

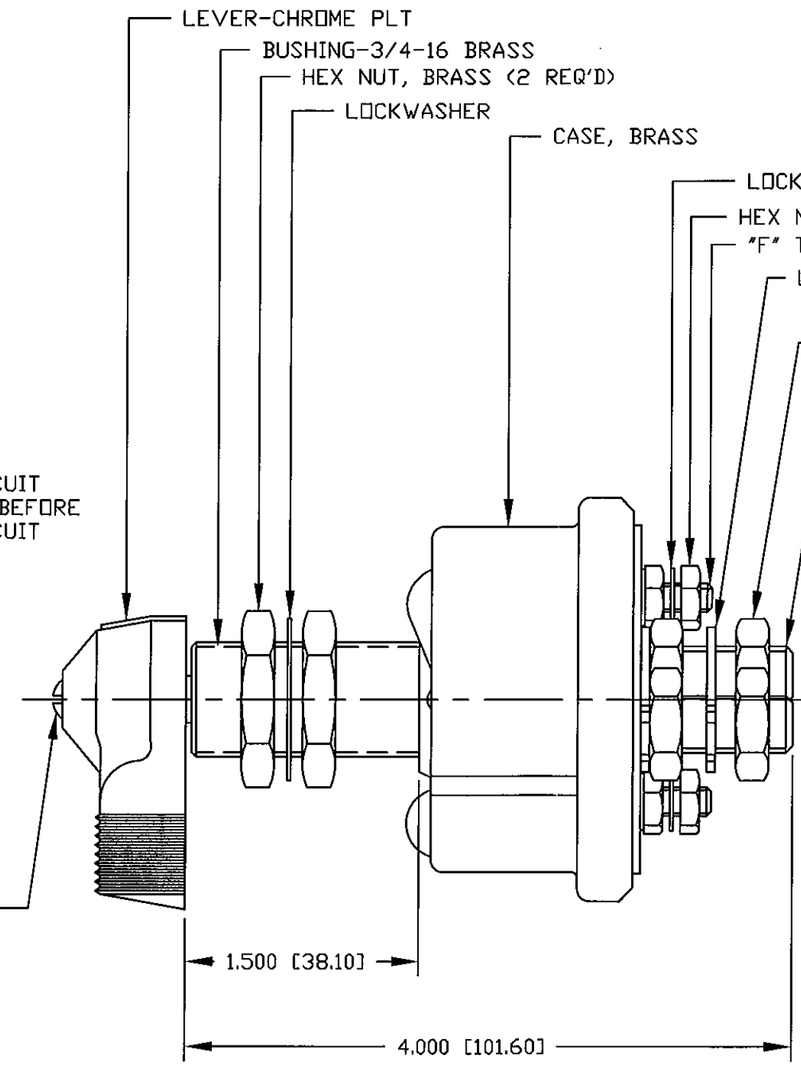
| Revision Control Record | | | |
|---|---|---|---|
| Rev. | Description of Change | ECN No. | Date |
| K | REVISED RATINGS/PUT ON CAD | 05224 | 5/17/05 |
| L | NOTE CHANGE | 05264 | 06/29/05 |
| M | BOM CHANGE | 10176 | 4/30/10 |
| | | | |
| | | | |
| | | | |

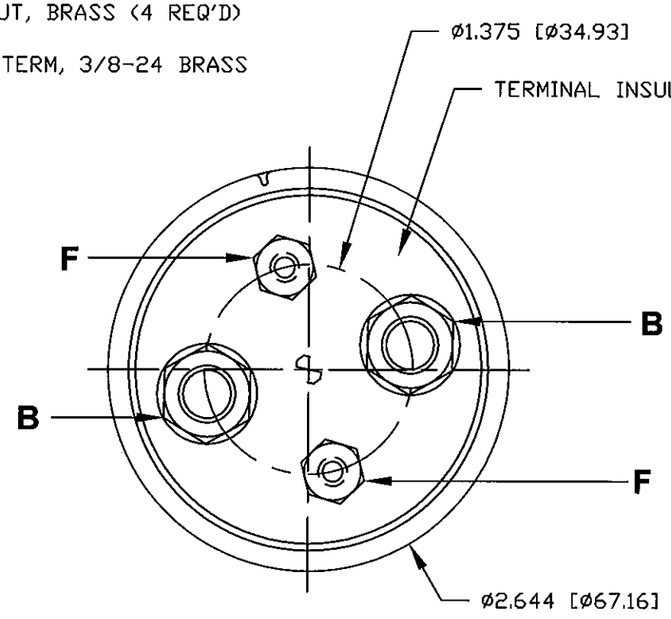
F & F CIRCUIT
MUST OPEN BEFORE
B & B CIRCUIT




B & B CIRCUIT
MUST CLOSE BEFORE
F & F CIRCUIT

STAMP PART NUMBER M290-01 (L)
RANDOM LOCATION




NOTES:
1. "O" RING SEAL IN BUSHING
2. ALL STEEL PARTS PLATED
3. FOR USE WITH ALTERNATOR OR GENERATOR SYSTEM
4. CONTINUOUS RATING: 6-12-24-36 VOLTS D.C., LARGE STUDS 175 AMPS, SMALL STUDS 20 AMPS
   INTERMITTENT RATING: 6-12-24-36 VOLTS D.C., LARGE STUDS 1000 AMPS, 15 SECONDS ON, 5 MINUTES OFF
5. BRASS CONTACTS 75903 & M289
   SILVER CONTACTS 75904 & M290
6. ALL DIMENSIONS REFERENCE ONLY

**Tolerances** Unless otherwise specifically noted, the following are default tolerances;
* 2-place Decimal Dimensions +/-.02"
* 3-place Decimal Dimensions +/-.005"
* Angular Dimensions +/- 1.0 Deg.
* Metric: Refer to equivalent English Dimension Tolerance
  >>> NOTE: *All tolerances are Non-Cumulative.* <<<

**Dimensional Units** All dimensions are expressed in inches except those shown in brackets (xxx) are expressed in millimeters

**"REF." or an Asterisk (*)** = Non-Toleranced Reference Dimension, shown for clarification purposes only.

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*DO NOT SCALE* - Dimensional variation may occur during printing / reproduction.

**Special Characteristics:**
- (CC) Critical Characteristic, relating to Safety and/or Regulatory Compliance
- (X) Significant Characteristic relating to Process Control (SPC)
- (KC) Control Dimension relating to Form - Fit - Function as defined by Cole Hersee Company and/or the Customer

(Note that the identification of any Characteristics as being "Special" does not alter the requirement that ALL specified dimensions & tolerances must be met.)

| Used On or Ref.: | Scale: 1:1 | Drawn By: CF | Date Drawn: 6/27/69 | Responsible Engineer: NA | Pg. 1 of 1 |
|---|---|---|---|---|---|

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Description: **MASTER DISCONNECT SWITCH**

Drawing / Part No.: **M-290-01**

Current Rev.: **M**