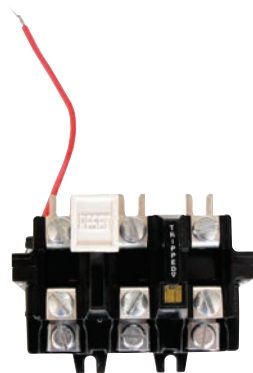


# Eutectic Alloy Overload Relays

## Overview/Product Selection

1



*Eutectic Alloy Type  
Panel Mount*

### Bulletin 592

- A Rockwell Automation exclusive — overload relay is the same for all three trip classes (10, 20, and 30) for each starter size.
- Trip current ratings are easily selected by choosing the proper heater element — no need to change the overload relay.
- The trip-free mechanism means you still have overload protection even if the reset button is held down.

The Bulletin 592 Overload Relay is a manual reset, eutectic alloy, thermal type overload device. When coordinated with the proper short circuit protection, the overload relay is intended to protect the motor, motor controller, and power wiring against overheating due to excessive overcurrents.

All Bulletin 592 block type relays are furnished with an optical indicator which becomes visible when the relay has tripped. A manual contact test module is provided as standard on block type Bulletin 592 overload relays. One N.O. or N.C. auxiliary contact may be field added to block type Bulletin 592 overload relays. This extra contact module physically replaces the contact test module.

### Table of Contents

Product Selection ..... this page  
Accessories..... 1-114  
Approximate  
Dimensions..... 1-165

### Standards Compliance

UL 508  
CSA 22.2 No. 14  
CE Mark

### Certifications

UL Listed (File No. E14840,  
Guide No. NKCR)  
CSA Certified (File No. LR1234)

### Eutectic Alloy Type — Manual Reset, Starter Mount

**STARTER MOUNT** — For installation on Bulletin 500 Line NEMA contactors.

**Heater Elements** — Overload relays require 3 overload heater elements. See page 1-167 for heater element selection.

| Starter Size      | Number of Poles | Open Type<br>without Enclosure |                   |
|-------------------|-----------------|--------------------------------|-------------------|
|                   |                 | N.C. Contact                   | N.O.-N.C. Contact |
|                   |                 | Cat. No.                       | Cat. No.          |
| 00 (Series B & D) | 3               | <b>592-JOV16</b>               | <b>592-JOV169</b> |
| 0, 1              |                 | <b>592-EUTB</b>                | 592-BOW169        |
| 2                 |                 | <b>592-EUTC</b>                | 592-COW169        |
| 3                 |                 | <b>592-EUTD</b>                | 592-DOW169        |
| 4                 |                 | <b>592-EUTE</b>                | 592-EOW169        |

### Eutectic Alloy Type — Manual Reset, Panel Mount

**PANEL MOUNT** — For installation and wiring separate from the contactor.

**Heater Elements** — Overload relays require 1 or 3 overload heater elements. See page 1-167 for heater element selection.

| Type     | Maximum<br>Continuous Current<br>(A) | Number of Poles | Open Type<br>without Enclosure |                    | Type 1<br>General Purpose Enclosure |                    |
|----------|--------------------------------------|-----------------|--------------------------------|--------------------|-------------------------------------|--------------------|
|          |                                      |                 | N.C. Contact                   | N.O.-N.C. Contacts | N.C. Contact                        | N.O.-N.C. Contacts |
|          |                                      |                 | Cat. No.                       | Cat. No.           | Cat. No.                            | Cat. No.           |
| Compact  | 24                                   | 3               | <b>592-JOV16</b>               | <b>592-JOV169</b>  | —                                   | —                  |
|          | 32                                   | 3               | <b>592-KOV16</b>               | 592-KOV169         | —                                   | —                  |
| Standard | 40                                   | 1               | <b>592-BOV4</b>                | <b>592-BOV49</b>   | —                                   | —                  |
|          |                                      | 3               | <b>592-BOV16</b>               | <b>592-BOV169</b>  | 592-BAV16                           | 592-BAV169         |
|          | 62                                   | 1               | <b>592-COV4</b>                | 592-COV49          | —                                   | —                  |
|          |                                      | 3               | <b>592-COV16</b>               | 592-COV169         | 592-CAV16                           | 592-CAV169         |
|          | 125                                  | 3               | <b>592-DOV16</b>               | <b>592-DOV169</b>  | —                                   | —                  |
|          | 165                                  | 3               | <b>592-EOV16</b>               | 592-EOV169         | —                                   | —                  |

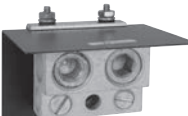
### Current Transformer Type — Eutectic Alloy, Manual Reset

**Heater Elements** — Overload relays require 3 overload heater elements. See page 1-167 for heater element selection.

| Full Load Current Range (A) | Cat. No.*         | Lug Kits Cat. No. |
|-----------------------------|-------------------|-------------------|
| 60...200‡                   | <b>592-TPD200</b> | <b>199-LF1</b>    |
| 120...300‡                  | <b>592-TPD300</b> | <b>199-LG1</b>    |
| 160...496                   | <b>592-TPD400</b> | <b>199-LH1</b>    |
| 250...630‡                  | <b>592-TPD630</b> | <b>199-LJ1</b>    |

\* Terminal lugs are not included.

‡ Can be applied up to 1500V.

|   | Description                                             |                                             | For Use With                                       | Cat. No.    |
|------------------------------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------|----------------------------------------------------|-------------|
|                                                                                    | Lug Connectors (3 per package)                          |                                             | 1494C, 1494F, 1494G, and 1494V Disconnect Switches |             |
|                                                                                    | Disconnect Size [A]                                     | Wire Size                                   |                                                    |             |
|                                                                                    | 30                                                      | #14...8 AWG Wire                            |                                                    | *           |
|                                                                                    | 60                                                      | #14...4 AWG Wire                            |                                                    | § 1494R-N1  |
|                                                                                    | 100                                                     | #8...1/0 AWG Wire                           |                                                    | § 1494R-N2  |
|                                                                                    | 200                                                     | #6...4/0 AWG Wire                           |                                                    | § 1494R-N3  |
|                                                                                    |                                                         | #6...250 MCM Wire (oversized)               |                                                    | § 199-LF1   |
|                                                                                    | 400                                                     | (2) of #1/0...250 MCM Wire                  |                                                    | § 1494R-N14 |
|                                                                                    |                                                         | #4 AWG...500 MCM Wire (oversized)           |                                                    | § 1494R-N15 |
| 600                                                                                | (2) of #1/0...350 MCM Wire                              | § 1494R-N10                                 |                                                    |             |
|                                                                                    | (2) of #1/0...350 MCM Wire                              | 1491-N621 or 1491-R621<br>600 A fuse blocks | ♣ 1494R-N11                                        |             |
|                                                                                    | (1) of #4...500 MCM Wire                                |                                             | ♣ 1494R-N12                                        |             |
| Cat. No. 1494R-N3                                                                  |                                                         |                                             |                                                    |             |
|   | Ground Connectors                                       |                                             | 1494C, 1494F, 1494G, and 1494V Disconnect Switches | 599-GR1     |
|                                                                                    | Ground Lug Kits                                         | 30...100 A                                  |                                                    | 599-GR2     |
|                                                                                    |                                                         | 200...400 A                                 |                                                    | 599-GR3     |
|                                                                                    |                                                         | 600 A                                       |                                                    |             |
|                                                                                    |                                                         | 30, 60 A                                    | 599-GR4                                            |             |
|                                                                                    |                                                         | 100, 200 A                                  | 599-GR5                                            |             |
| Cat. No. 599-GR1                                                                   |                                                         |                                             |                                                    |             |
|  | Neutral Kits                                            |                                             | 1494H Safety Switches                              |             |
|                                                                                    | 30 A @ 250/600V AC Fusible (Type 1 & 3R)                |                                             |                                                    | 599-NK1     |
|                                                                                    | 30 A @ 250/600V AC Non-Fusible (Type 1 & 3R)            |                                             |                                                    | 599-NK2     |
|                                                                                    | 30 A @ 250/600V AC Fusible & Non-Fusible (Type 12)      |                                             |                                                    | 599-NK3     |
|                                                                                    | 60 A @ 250/600V AC Fusible & Non-Fusible (Type 1 & 3R)  |                                             |                                                    | 599-NK4     |
|                                                                                    | 60 A @ 250/600V AC Fusible (Type 12)                    |                                             |                                                    | 599-NK5     |
|                                                                                    | 60 A @ 250/600V AC Non-Fusible (Type 12)                |                                             |                                                    | 599-NK6     |
|                                                                                    | 100 A @ 250/600V AC Fusible (Type 1 & 3R)               |                                             |                                                    | 599-NK7     |
|                                                                                    | 100 A @ 250/600V AC Non-Fusible (Type 1, 3R, and 12)    |                                             |                                                    | 599-NK8     |
|                                                                                    | 100 A @ 250/600V AC Fusible (Type 12)                   |                                             |                                                    | 599-NK9     |
|                                                                                    | 200 A @ 250/600V AC Fusible & Non-Fusible (Type 1 & 3R) |                                             |                                                    | 599-NK10    |
|                                                                                    | 200 A @ 250/600V AC Fusible & Non-Fusible (Type 12)     |                                             |                                                    | 599-NK11    |
|                                                                                    | Phase Barrier Kits                                      |                                             | 1494C, 1494F, 1494G,<br>1494V                      |             |
|                                                                                    | Disconnect Size [A]                                     |                                             |                                                    |             |
|                                                                                    | 30, 60                                                  |                                             |                                                    | 1494F-PH2   |
|                                                                                    | 100                                                     |                                             |                                                    | 1494F-PH3   |
|                                                                                    | 200                                                     |                                             |                                                    | 1494F-PH4   |
|                                                                                    | 400                                                     |                                             |                                                    | 1494F-PH5   |

\* All terminals of the 30 A switches are furnished with self-lifting pressure plate connectors as standard.

♣ Each kits contains (2) lugs.

§ Each kit contains (3) lugs.