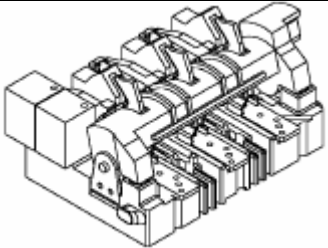
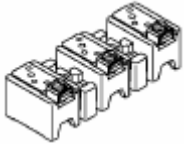

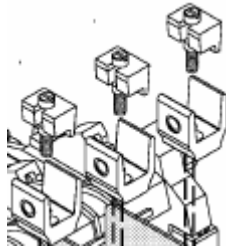


Bulletin 512 Combination Starters with Fusible/Non-Fusible Disconnect Switch NEMA Sizes 0-7 Series One Construction

Disconnect Switch, Trailer Fuse Block and Fuse Clip Repair Parts

|  Disconnect Switch (includes line terminal guard) | |  Trailer Fuse Block | |  Lug Kit (cat. No. 1494R-N3 shown above) | |  Fuse Clip Kit (100A shown above) | | | |
|--|--------------|---|--|---|---|--|---|---|---|
| NEMA Size | Line Voltage | Fuse Clip Rating (A) | Catalog Number of Starter (D)=120V sep. ctrl. * = fuse clip class | Disconnect Switch less Lugs, Fuse Clips and Phase Barriers | Trailer Fuse Block less Lugs, Fuse Clips and Phase Barriers | Lug Kit (1 kit contains 3 lugs) | Fuse Clip Kit Class R (includes 6 fuse clips) | Fuse Clip Kit Class H (includes 6 fuse clips) | Fuse Clip Kit Class J (includes 6 fuse clips) |
| 0 | 208 | 30 | 512-AAH-24* 512-AJH-24* 512-ADH-24* 512-ACH-24* 512-AFH-24* | 1494F-D30 | 1494F-FS30 | Included on disconnect switch and trailer block | 1401-N50 | 1401-N41 | 1401-N42 |
| 0 | 240 | 30 | 512-AAA(D)-24* 512-AJA(D)-24* 512-ADA(D)-24* 512-ACA(D)-24* 512-AFA(D)-24* | 1494F-D30 | 1494F-FS30 | Included on disconnect switch and trailer block | 1401-N50 | 1401-N41 | 1401-N42 |
| 0 | 480 | 30 | 512-AAB-24* 512-AJB-24* 512-ADB-24* 512-ACB-24* 512-AFB-24* | 1494F-D30 | 1494F-FS30 | Included on disconnect switch and trailer block | 1401-N51 | 1401-N42 | 1401-N42 |
| 0 | 600 | 30 | 512-AAC(D)-24* 512-AJC(D)-24* 512-ADC(D)-24* 512-ACC(D)-24* 512-AFC(D)-24* | 1494F-D30 | 1494F-FS30 | Included on disconnect switch and trailer block | 1401-N51 | 1401-N42 | 1401-N42 |
| 1 | 208 | 30 | 512-BAH-24* 512-BJH-24* 512-BDH-45* 512-BCH-24* 512-BFH-24* | 1494F-D30 | 1494F-FS30 | Included on disconnect switch and trailer block | 1401-N50 | 1401-N41 | 1401-N42 |
| 1 | 208 | 60 | 512-BAH-25* 512-BJH-25* 512-BDH-25* 512-BCH-25* 512-BSF-25* | 1494F-D30 | 1494F-FS30 | Included on disconnect switch and trailer block | 1401-N51 | 1401-N42 | 1401-N43 |
| 1 | 240 | 30 | 512-BAA(D)-24* 512-BJA(D)-24* 512-BDA(D)-24* 512-BCA(D)-24* 512-BFA(D)-24* | 1494F-D30 | 1494F-FS30 | Included on disconnect switch and trailer block | 1401-N50 | 1401-N41 | 1401-N42 |
| 1 | 240 | 60 | 512-BAA(D)-25* 512-BJA(D)-25* 512-BDA(D)-25* 512-BCA(D)-25* 512-BFA(D)-25* | 1494F-D30 | 1494F-FS30 | Included on disconnect switch and trailer block | 1401-N51 | 1401-N42 | 1401-N43 |
| 1 | 480 | 30 | 512-BAB-24* 512-BJB-24* 512-BDB-24* 512-BCB-24* 512-BFB-24* | 1494F-D30 | 1494F-FS30 | Included on disconnect switch and trailer block | 1401-N51 | 1401-N42 | 1401-N42 |
| 1 | 480 | 60 | 512-BAB-25* 512-BJB-25* 512-BDB-25* 512-BCB-25* 512-BFB-25* | 1494F-D30 | 1494F-FS30 | Included on disconnect switch and trailer block | 1401-N52 | 1401-N43 | 1401-N43 |

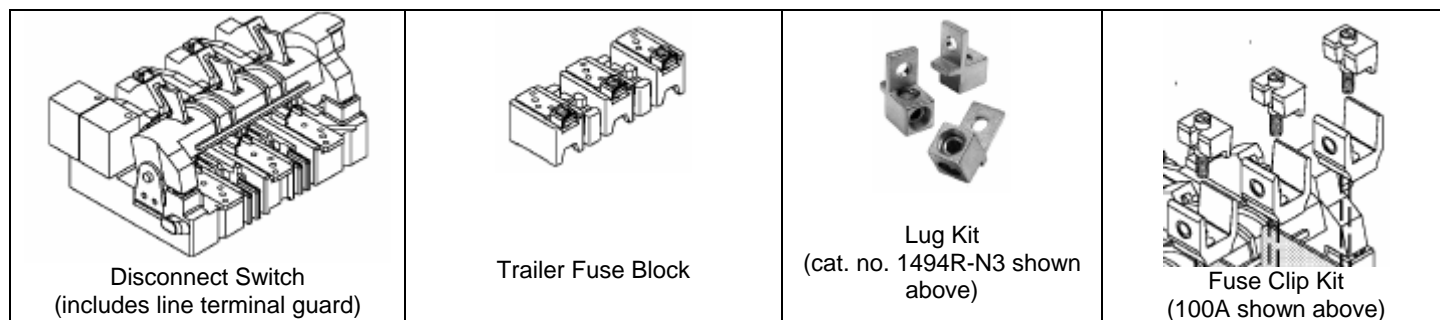
**Bulletin 512 Combination Starters with Fusible/Non-Fusible Disconnect Switch
NEMA Sizes 0-7 Series One Construction**

Disconnect Switch, Trailer Fuse Block and Fuse Clip Repair Parts

| NEMA Size | Line Voltage | Fuse Clip Rating (A) | Catalog Number of Starter (D)=120V sep. ctrl. * = fuse clip class | Disconnect Switch less Lugs, Fuse Clips and Phase Barriers | Trailer Fuse Block less Lugs, Fuse Clips and Phase Barriers | Lug Kit (1 kit contains 3 lugs) | Fuse Clip Kit Class R (includes 6 fuse clips) | Fuse Clip Kit Class H (includes 6 fuse clips) | Fuse Clip Kit Class J (includes 6 fuse clips) |
|-----------|--------------|----------------------|--|--|---|---|---|---|---|
| 1 | 600 | 30 | 512-BAC(D)-24* 512-BJC(D)-24* 512-BDC(D)-24* 512-BCC(D)-24* 512-BFC(D)-24* | 1494F-D30 | 1494F-FS30 | Included on disconnect switch and trailer block | 1401-N51 | 1401-N42 | 1401-N42 |
| 1 | 600 | 60 | 512-BAC(D)-25* 512-BJC(D)-25* 512-BDC(D)-25* 512-BCC(D)-25* 512-BFC(D)-25* | 1494F-D30 | 1494F-FS30 | Included on disconnect switch and trailer block | 1401-N52 | 1401-N43 | 1401-N43 |
| 2 | 480 | 30 | 512-CAB-24* 512-CJB-24* 512-CDB-24* 512-CCB-24* 512-CFB-24* | 1494F-D60 | 1494F-FS60 | 1494R-N1 (qty 1 req'd) | 1401-N51 | 1401-N42 | 1401-N42 |
| 2 | 600 | 30 | 512-CAC(D)-24* 512-CJC(D)-24* 512-CDC(D)-24* 512-CCC(D)-24* 512-CFC(D)-24* | 1494F-D60 | 1494F-FS60 | 1494R-N1 (qty 1 req'd) | 1401-N51 | 1401-N42 | 1401-N42 |
| 2 | 208 | 60 | 512-CAH-25* 512-CJH-25* 512-CDH-25* 512-CCH-25* 512-CFH-25* | 1494F-D60 | 1494F-FS60 | 1494R-N1 (qty 1 req'd) | 1401-N51 | 1401-N42 | 1401-N43 |
| 2 | 208 | 100 | 512-CAH-26* 512-CJH-26* 512-CDH-26* 512-CCH-26* 512-CFH-26* | 1494F-D60 | 1494F-FS60 | 1494R-N1 (qty 1 req'd) | 1401-N53 | 1401-N44 | 1401-N44 |
| 2 | 240 | 60 | 512-CAA(D)-25* 512-CJA(D)-25* 512-CDA(D)-25* 512-CCA(D)-25* 512-CFA(D)-25* | 1494F-D60 | 1494F-FS60 | 1494R-N1 (qty 1 req'd) | 1401-N51 | 1401-N42 | 1401-N43 |
| 2 | 240 | 100 | 512-CAA(D)-26* 512-CJA(D)-26* 512-CDA(D)-26* 512-CCA(D)-26* 512-CFA(D)-26* | 1494F-D60 | 1494F-FS60 | 1494R-N1 (qty 1 req'd) | 1401-N53 | 1401-N44 | 1401-N44 |
| 2 | 480 | 60 | 512-CAB-25* 512-CJB-25* 512-CDB-25* 512-CCB-25* 512-CFB-25* | 1494F-D60 | 1494F-FS60 | 1494R-N1 (qty 1 req'd) | 1401-N52 | 1401-N43 | 1401-N43 |
| 2 | 480 | 100 | 512-CAB-26* 512-CJB-26* 512-CDB-26* 512-CCB-26* 512-CFB-26* | 1494F-D60 | 1494F-FS60 | 1494R-N1 (qty 1 req'd) | 1401-N53 | 1401-N44 | 1401-N44 |
| 2 | 600 | 60 | 512-CAC(D)-25* 512-CJC(D)-25* 512-CDC(D)-25* 512-CCC(D)-25* 512-CFC(D)-25* | 1494F-D60 | 1494F-FS60 | 1494R-N1 (qty 1 req'd) | 1401-N52 | 1401-N43 | 1401-N43 |
| 2 | 600 | 100 | 512-CAC(D)-26* 512-CJC(D)-26* 512-CDC(D)-26* 512-CCC(D)-26* 512-CFC(D)-26* | 1494F-D60 | 1494F-FS60 | 1494R-N1 (qty 1 req'd) | 1401-N53 | 1401-N44 | 1401-N44 |

Bulletin 512 Combination Starters with Fusible/Non-Fusible Disconnect Switch NEMA Sizes 0-7 Series One Construction

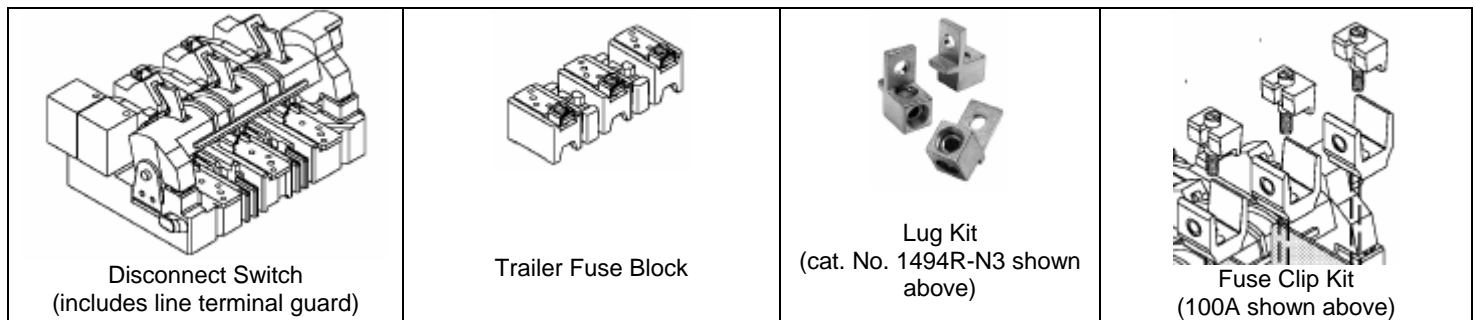
Disconnect Switch, Trailer Fuse Block and Fuse Clip Repair Parts



| NEMA Size | Line Voltage | Fuse Clip Rating (A) | Catalog Number of Starter (D =120V sep. ctrl. * = fuse clip class) | Disconnect Switch less Lugs, Fuse Clips and Phase Barriers | Trailer Fuse Block less Lugs, Fuse Clips and Phase Barriers | Lug Kit (1 kit contains 3 lugs) | Fuse Clip Kit Class R (includes 6 fuse clips) | Fuse Clip Kit Class H/J (includes 6 fuse clips) |
|-----------|--------------|----------------------|--|--|---|---------------------------------|---|---|
| 3 | 480 | 60 | 512-DAB-25* 512-DJB-25* 512-DDB-25* 512-DCB-25* 512-DFB-25* | 1494F-D100 | 1494F-FS100 | 1494R-N2 (qty 1 req'd) | 1401-N52 | 1401-N43 |
| 3 | 600 | 60 | 512-DAC(D)-25* 512-DJC(D)-25* 512-DDC(D)-25* 512-DCC(D)-25* 512-DFC(D)-25* | 1494F-D100 | 1494F-FS100 | 1494R-N2 (qty 1 req'd) | 1401-N52 | 1401-N43 |
| 3 | 208 | 100 | 512-DAH-26* 512-DJH-26* 512-DDH-26* 512-DCH-26* 512-DFH-26* | 1494F-D100 | 1494F-FS100 | 1494R-N2 (qty 1 req'd) | 1401-N53 | 1401-N44 |
| 3 | 208 | 200 | 512-DAH-27* 512-DJH-27* 512-DDH-27* 512-DCH-27* 512-DFH-27* | 1494F-D100 | 1494F-FS100 | 1494R-N2 (qty 1 req'd) | 1401-N54 | 1401-N45 |
| 3 | 240 | 100 | 512-DAA(D)-26* 512-DJA(D)-26* 512-DDA(D)-26* 512-DCA(D)-26* 512-DFA(D)-26* | 1494F-D100 | 1494F-FS100 | 1494R-N2 (qty 1 req'd) | 1401-N53 | 1401-N44 |
| 3 | 240 | 200 | 512-DAA(D)-27* 512-DJA(D)-27* 512-DDA(D)-27* 512-DCA(D)-27* 512-DFA(D)-27* | 1494F-D100 | 1494F-FS100 | 1494R-N2 (qty 1 req'd) | 1401-N54 | 1401-N45 |
| 3 | 480 | 100 | 512-DAB-26* 512-DJB-26* 512-DDB-26* 512-DCB-26* 512-DFB-26* | 1494F-D100 | 1494F-FS100 | 1494R-N2 (qty 1 req'd) | 1401-N53 | 1401-N44 |
| 3 | 480 | 200 | 512-DAB-27* 512-DJB-27* 512-DDB-27* 512-DCB-27* 512-DFB-27* | 1494F-D100 | 1494F-FS100 | 1494R-N2 (qty 1 req'd) | 1401-N54 | 1401-N45 |
| 3 | 600 | 100 | 512-DAC(D)-26* 512-DJC(D)-26* 512-DDC(D)-26* 512-DCC(D)-26* 512-DFC(D)-26* | 1494F-D100 | 1494F-FS100 | 1494R-N2 (qty 1 req'd) | 1401-N53 | 1401-N44 |

Bulletin 512 Combination Starters with Fusible/Non-Fusible Disconnect Switch NEMA Sizes 0-7 Series One Construction

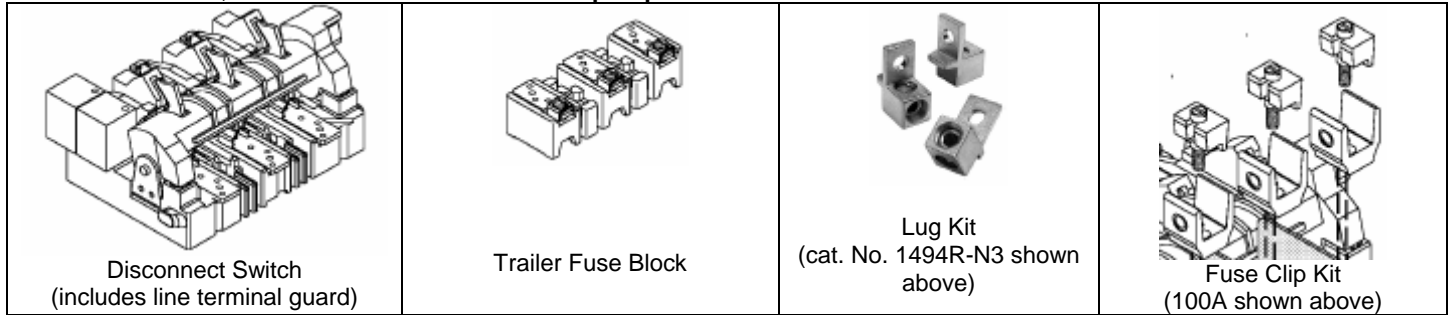
Disconnect Switch, Trailer Fuse Block and Fuse Clip Repair Parts



| NEMA Size | Line Voltage | Fuse Clip Rating (A) | Catalog Number of Starter (D =120V sep. ctrl. * = fuse clip class) | Disconnect Switch less Lugs, Fuse Clips and Phase Barriers | Trailer Fuse Block less Lugs, Fuse Clips and Phase Barriers | Lug Kit (1 kit contains 3 lugs) | Fuse Clip Kit Class R (includes 6 fuse clips) | Fuse Clip Kit Class H/J (includes 6 fuse clips) |
|-----------|--------------|----------------------|--|--|---|---------------------------------|---|---|
| 3 | 600 | 200 | 512-DAC(D)-27* 512-DJC(D)-27* 512-DDC(D)-27* 512-DCC(D)-27* 512-DFC(D)-27* | 1494F-D100 | 1494F-FS100 | 1494R-N2 (qty 1 req'd) | 1401-N54 | 1401-N45 |
| 4 | 480 | 100 | 512-EAB-26* 512-EJB-26* 512-EDB-26* 512-ECB-26* 512-EFB-26* | 1494F-D200 | 1494F-FS200 | 1494R-N3 (qty 1 req'd) | 1401-N53 | 1401-N44 |
| 4 | 600 | 100 | 512-EAC(D)-26* 512-EJC(D)-26* 512-ECC(D)-26* 512-EFC(D)-26* | 1494F-D200 | 1494F-FS200 | 1494R-N3 (qty 1 req'd) | 1401-N53 | 1401-N44 |
| 4 | 208 | 200 | 512-EAH-27* 512-EJH-27* 512-EDH-27* 512-ECH-27* 512-EFH-27* | 1494F-D200 | 1494F-FS200 | 1494R-N3 (qty 1 req'd) | 1401-N54 | 1401-N45 |
| 4 | 208 | 400 | 512-EAH-28* 512-EJH-28* 512-EDH-28* 512-ECH-28* 512-EFH-28* | 1494F-D200 | 1494F-FS200 | 1494R-N3 (qty 1 req'd) | 1401-N55 | 1401-N46 |
| 4 | 240 | 200 | 512-EAA(D)-27* 512-EJA(D)-27* 512-EDA(D)-27* 512-ECA(D)-27* 512-EFA(D)-27* | 1494F-D200 | 1494F-FS200 | 1494R-N3 (qty 1 req'd) | 1401-N54 | 1401-N45 |
| 4 | 240 | 400 | 512-EAA(D)-28* 512-EJA(D)-28* 512-EDA(D)-28* 512-ECA(D)-28* 512-EFA(D)-28* | 1494F-D200 | 1494F-FS200 | 1494R-N3 (qty 1 req'd) | 1401-N55 | 1401-N46 |
| 4 | 480 | 200 | 512-EAB-27* 512-EJB-27* 512-EDB-27* 512-ECB-27* 512-EFB-27* | 1494F-D200 | 1494F-FS200 | 1494R-N3 (qty 1 req'd) | 1401-N54 | 1401-N45 |
| 4 | 480 | 400 | 512-EAB-28* 512-EJB-28* 512-EDB-28* 512-ECB-28* 512-EFB-28* | 1494F-D200 | 1494F-FS200 | 1494R-N3 (qty 1 req'd) | 1401-N55 | 1401-N46 |

**Bulletin 512 Combination Starters with Fusible/Non-Fusible Disconnect Switch
NEMA Sizes 0-7 Series One Construction**

Disconnect Switch, Trailer Fuse Block and Fuse Clip Repair Parts

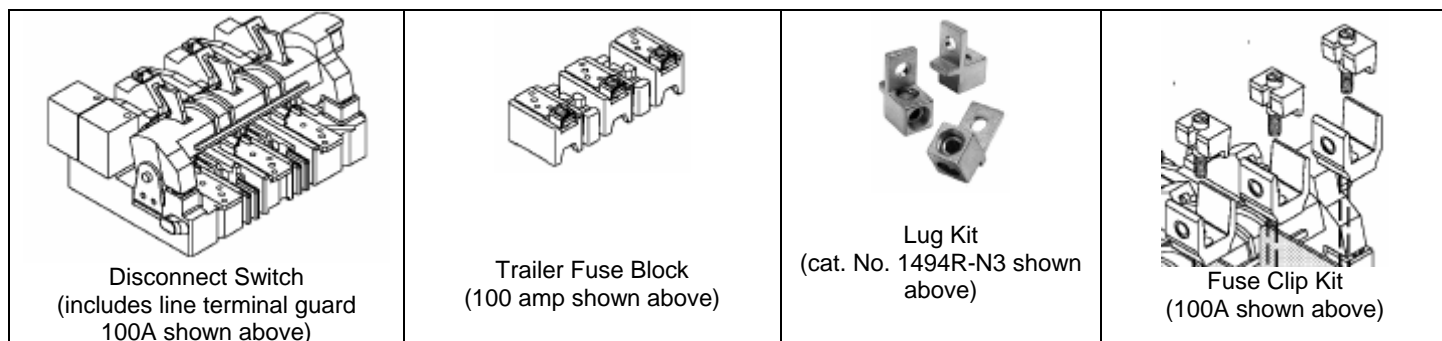


| NEMA Size | Line Voltage | Fuse Clip Rating (A) | Catalog Number of Starter (D =120V sep. ctrl. * = fuse clip class) | Disconnect Switch less Lugs, Fuse Clips and Phase Barriers | Trailer Fuse Block less Lugs, Fuse Clips and Phase Barriers | Lug Kit (1 kit contains 3 lugs) | Fuse Clip Kit Class R (includes 6 fuse clips) | Fuse Clip Kit Class H/J (includes 6 fuse clips) |
|-----------|--------------|----------------------|--|--|---|---------------------------------|---|---|
| 4 | 600 | 200 | 512-EAC(D)-27* 512-EJC(D)-27* 512-EDC(D)-27* 512-ECC(D)-27* 512-EFC(D)-27* | 1494F-D200 | 1494F-FS200 | 1494R-N3 (qty 1 req'd) | 1401-N54 | 1401-N45 |
| 4 | 600 | 400 | 512-EAC(D)-28* 512-EJC(D)-28* 512-EDC(D)-28* 512-ECC(D)-28* 512-EFC(D)-28* | 1494F-D200 | 1494F-FS200 | 1494R-N3 (qty 1 req'd) | 1401-N55 | 1401-N46 |
| 5 | 208 | 200 | 512-FAH-27* 512-FJH-27* 512-FDH-27* 512-FCH-27* 512-FFH-27* | 1494F-D400 | 1494F-FS400 | 1494R-N15 (qty 1 req'd) | 1401-N54 | 1401-N45 |
| 5 | 208 | 400 | 512-FAH-28* 512-FJH-28* 512-FDH-28* 512-FCH-28* 512-FFH-28* | 1494F-D400 | 1494F-FS400 | 1494R-N15 ① (qty 1 req'd) | 1401-N55 | 1401-N46 |
| 5 | 240 | 200 | 512-FAA(D)-27* 512-FJA(D)-27* 512-FDA(D)-27* 512-FCA(D)-27* 512-FFA(D)-27* | 1494F-D400 | 1494F-FS400 | 1494R-N15 ① (qty 1 req'd) | 1401-N54 | 1401-N45 |
| 5 | 240 | 400 | 512-FAA(D)-28* 512-FJA(D)-28* 512-FDA(D)-28* 512-FCA(D)-28* 512-FFA(D)-28* | 1494F-D400 | 1494F-FS400 | 1494R-N15 ① (qty 1 req'd) | 1401-N55 | 1401-N46 |
| 5 | 480 | 200 | 512-FAB-27* 512-FJB-27* 512-FDB-27* 512-FCB-27* 512-FFB-27* | 1494F-D400 | 1494F-FS400 | 1494R-N15 ① (qty 1 req'd) | 1401-N54 | 1401-N45 |
| 5 | 480 | 400 | 512-FAB-28* 512-FJB-28* 512-FDB-28* 512-FCB-28* 512-FFB-28* | 1494F-D400 | 1494F-FS400 | 1494R-N15 ① (qty 1 req'd) | 1401-N55 | 1401-N46 |
| 5 | 600 | 400 | 512-FAC(D)-28* 512-FJC(D)-28* 512-FDC(D)-28* 512-FCC(D)-28* 512-FFC(D)-28* | 1494F-D400 | 1494F-FS400 | 1494R-N15 ① (qty 1 req'd) | 1401-N55 | 1401-N46 |

① Lug accommodates single strand of #4 - 500MCM wire; for two wire #1/0 to 350MCM order lug kit 1494R-N10 (3 double lugs per kit).

Bulletin 512 Combination Starters with Fusible/Non-Fusible Disconnect Switch NEMA Sizes 0-7 Series One Construction

Disconnect Switch, Trailer Fuse Block and Fuse Clip Repair Parts



| NEMA Size | Line Voltage | Fuse Clip Rating (A) | Catalog Number of Starter | Disconnect Switch less Lugs | Single Pole Top & Bottom Fuse Block Assembly | Line Side Disconnect Lug Kit (1 kit contains 3 lugs) | Fuse Clips Class R (on bottom fuse block) | Fuse Clip (on top fuse block) |
|-----------|--------------|----------------------|----------------------------|-----------------------------|--|--|---|-------------------------------|
| 6 | 208 | 600 | 512-GFH-29R 512-GCH-29R | 1494V-DS600 | 1491-R621 (qty 3 req'd) | 1494R-N10 (qty 1 req'd) | Included in single pole fuse block | 40115-426-51 |
| | 240 | 600 | 512-GFA-29R 512-GCA-29R | 1494V-DS600 | 1491-R621 (qty 3 req'd) | 1494R-N10 (qty 1 req'd) | Included in single pole fuse block | 40115-426-51 |
| | 480 | 600 | 512-GFB-29R 512-GCB-29R | 1494V-DS600 | 1491-R621 (qty 3 req'd) | 1494R-N10 (qty 1 req'd) | Included in single pole fuse block | 40115-426-51 |
| | 600 | 600 | 512-GFC-29R 512-GCC-29R | 1494V-DS600 | 1491-R621 (qty 3 req'd) | 1494R-N10 (qty 1 req'd) | Included in single pole fuse block | 40115-426-51 |

For Class R applications:

1. Class R fuse clips are not available as separate parts, they are riveted to the bottom fuse block.
 2. Three fuse blocks are required per installation, catalog number 1491-R621, (single pole fuse block assembly).
- In addition, the purchase of the 1494R-N11 lug kit is required to complete the wiring from the disconnect switch to the 1491-R621 fuse blocks.

| NEMA Size | Line Voltage | Fuse Clip Rating (A) | Catalog Number of Starter | Disconnect Switch less Lugs | Trailer Fuse Block Assembly | Line Side Disconnect Lug Kit (1 kit contains 3 lugs) | Load Side Trailer Block Lug Kit (1 kit contains 3 lugs) | Mounting Bolt for Class J Fuse |
|-----------|--------------|----------------------|----------------------------|-----------------------------|-----------------------------|--|---|--------------------------------|
| 6 | 208 | 600 | 512-GFH-29J 512-GCH-29J | 1494V-DS600 | 1494V-FS600 | 1494R-N10 (qty 1 req'd) | 1494R-N10 (qty 1 req'd) | M-756 |
| | 240 | 600 | 512-GFA-29J 512-GCA-29J | 1494V-DS600 | 1494V-FS600 | 1494R-N10 (qty 1 req'd) | 1494R-N10 (qty 1 req'd) | M-756 |
| | 480 | 600 | 512-GFB-29J 512-GCB-29J | 1494V-DS600 | 1494V-FS600 | 1494R-N10 (qty 1 req'd) | 1494R-N10 (qty 1 req'd) | M-756 |
| | 600 | 600 | 512-GFC-29J 512-GCC-29J | 1494V-DS600 | 1494V-FS600 | 1494R-N10 (qty 1 req'd) | 1494R-N10 (qty 1 req'd) | M-756 |

For Class J applications:

1. Class J fuses mount directly to the bottom of the 1494V-DS600 (mounting bolts are provided with the 1494V-DS600).
2. The 1494V-FS600 trailer block assembly is a 3 pole fuse block that does not require fuse clips. Class J fuses mount directly to the 1494V-FS600 (mounting bolts are provided with the 1494V-FS600).

**Bulletin 512 Combination Starters with Fusible/Non-Fusible Disconnect Switch
NEMA Sizes 0-7 Series One Construction**

Disconnect Switch, Trailer Fuse Block and Fuse Clip Repair Parts

| NEMA Size | Line Voltage | Fuse Clip Rating (A) | Catalog Number of Starter | Molded Case Switch (800A) Less Lugs | Single Pole Top & Bottom Fuse Block Assembly ① (for Class L fuses) | Line or Load Side Disconnect Lug (3 wires of 3/0 – 500 mcm) | Line or Load Side Fuse Block Lug (2 wires of 1/0 to 350 mcm) |
|-----------|--------------|----------------------|----------------------------|-------------------------------------|--|---|--|
| 7 | 240 | 800 | 512-HFA-25L 512-HCA-25L | 25103-462-03 | 40023-853-51 (qty 3 req'd) | 25109-476-01 (qty 6 req'd) | 1494R-N11 (kit contains 3 lugs) |
| | 480 | 800 | 512-HFB-25L 512-HCB-25L | 25103-462-03 | 40023-853-51 (qty 3 req'd) | 25109-476-01 (qty 6 req'd) | 1494R-N11 (kit contains 3 lugs) |
| | 600 | 800 | 512-HFC-25L 512-HCC-25L | 25103-462-03 | 40023-853-51 (qty 3 req'd) | 25109-476-01 (qty 6 req'd) | 1494R-N11 (kit contains 3 lugs) |

① Lugs and Class L Fuse Clips are included with part number 40023-853-51. Fuse Clips are not available separately.

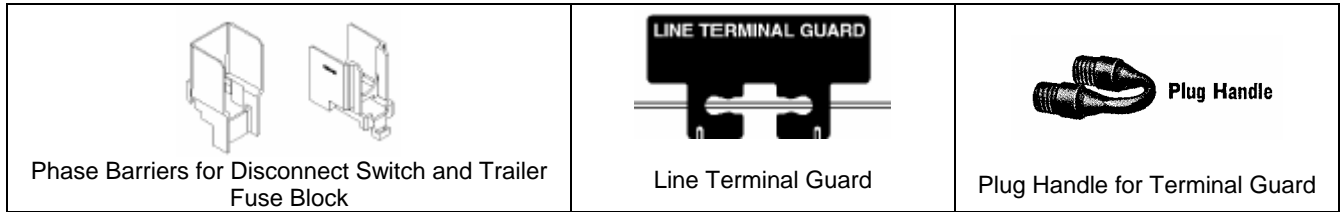
Replacement Control Circuit Transformers for Size 6 and Size 7 Bulletin 512 Combination Starters

As standard, size 6 and size 7 starters include a control circuit transformer. All transformers have a secondary voltage of 120V 60Hz which matches the coil voltage and frequency of the 'across the line' bulletin 509 starter, included as part of the bulletin 512 starter.

| NEMA Size | Line Voltage | Fuse Clip Rating (A) | Catalog Number of Starter | Control Circuit Transformer | Primary Fuse Size and Type (qty 2 req'd) | Secondary Fuse Size and Type |
|-----------|--------------|----------------------|--|-----------------------------|--|---|
| 6 | 208 | 600 | 512-GFH-29J 512-GFH-29R 512-GCH-29J 512-GCH-29R | 1497-G-HXSX-3-N (500VA) | 6.0A 600V Class CC Types KLDL, ATDR, or FNQ-R | 6.25A 250V Types FNM, TRM or FLM |
| | 240 | 600 | 512-GFA-29J 512-GFA-29R 512-GCA-29J 512-GCA-29R | 1497-G-BASX-3-N (500VA) | 5.0A 600V Class CC Types KLDL, ATDR, or FNQ-R | 6.25A 250V Types FNM, TRM or FLM |
| | 480 | 600 | 512-GFB-29J 512-GFB-29R 512-GCB-29J 512-GCB-29R | 1497-C-BASX-3-N (130VA) | 1.25A 600V Class CC Types KLDL, ATDR, or FNQ-R | 1.8A 600V Class CC Types KLDL, ATDR, or FNQ-R |
| | 600 | 600 | 512-GFC-29J 512-GFC-29R 512-GCC-29J 512-GCC-29R | 1497-G-CXSX-3-N (500VA) | 4.0A 600V Class CC Types KLDL, ATDR, or FNQ-R | 6.25A 250V Types FNM, TRM or FLM |
| 7 | 240 | 800 | 512-HFA-25L 512-HCA-25L | 1497-E-BASX-3-N (250VA) | 5.0A 600V Class CC Types KLDL, ATDR, or FNQ-R | 3.2A 250V Types FNM, TRM or FLM |
| | 480 | 800 | 512-HFB-25L 512-HCB-25L | 1497-E-BASX-3-N (250VA) | 2.5A 600V Class CC Types KLDL, ATDR, or FNQ-R | 3.2A 250V Types FNM, TRM or FLM |
| | 600 | 800 | 512-HFC-25L 512-HCC-25L | 1497-E-CXSX-3-N (250VA) | 2.0A 600V Class CC Types KLDL, ATDR, or FNQ-R | 3.2A 250V Types FNM, TRM or FLM |

Bulletin 512 Combination Starters with Fusible/Non-Fusible Disconnect Switch NEMA Sizes 0-7 Series One Construction

Phase Barriers and Line Terminal Guard for Fusible Disconnect Switches and Trailer Fuse Block Assemblies
One phase barrier catalog number contains 2 barriers; one for the disconnect switch, one for the trailer fuse block.



| NEMA Sizes | Catalog Number of Starter | Phase Barriers for Disconnect Switch and Trailer Fuse Block | Line Terminal Guard | Plug Handle for Terminal Guard |
|------------|---|---|---------------------|--------------------------------|
| 0-2 | 512-AA*, 512-AD*, 512-AJ*, 512-AC*, 512-AF* 512-BA*, 512-BD*, 512-BJ*, 512-BC*, 512-BF* 512-CA*, 512-CD*, 512-CJ*, 512-CC*, 512-CF* | 1494F-PH2 | 40392-801-51 ① | F-26083 |
| 3 | 512-DA*, 512-DD*, 512-DJ*, 512-DC*, 512-DF* | 1494F-PH3 | 40392-801-51 ① | F-26083 |
| 4 | 512-EA*, 512-ED*, 512-EJ*, 512-EC*, 512-EF* | 1494F-PH4 | 40392-801-52 ① | F-26087 |
| 5 | 512-FA*, 512-FD*, 512-FJ*, 512-FC*, 512-FF | 1494F-PH4 | 40392-801-53 ① | F-26088 |

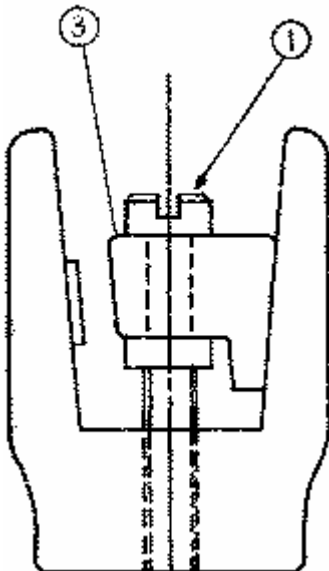
① Part number includes plug handle for line terminal guard and the line terminal guard.

Renewal parts for size 6 bulletin 512 starters using 600 amp fusible disconnects, see knowledgebase technote Q45537412, which lists renewal part numbers for the line terminal guard and phase barriers.

Fuse Clip Kit Repair Parts (Class H, J fuse clips)

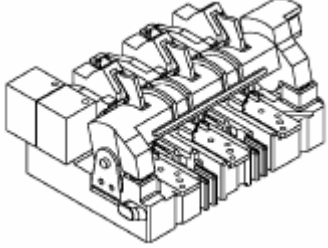



| Fuse Clip Rating (A) | Fuse Clip Part No. | Clamp Screw (Item 1) | Clamp Block (Item 3) |
|----------------------|--------------------|----------------------|----------------------|
| 100 | 1401-N44 ① | 40023-110-02 | 40023-108-02 |
| 200 | 1401-N45 ① | 40023-110-04 | 40023-108-02 |
| 400 | 1401-N46 ① | 40023-111-02 | 40023-109-02 |

① Contains six fuse clips and mounting hardware.



**Bulletin 512 Combination Starters with Fusible/Non-Fusible Disconnect Switch
NEMA Sizes 0-7 Series One Construction**

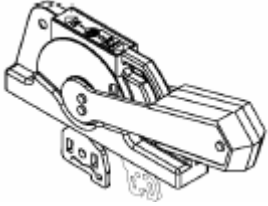
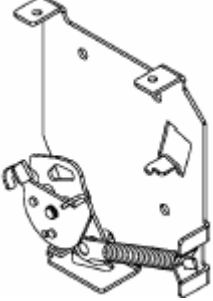


Non-Fusible Disconnect Switch Repair Parts

| | |  Disconnect Switch |  Lug Kit (cat. no. 1494R-N3 shown above) |  Line Terminal Guard |  Plug Handle for Terminal Guard | |
|-----------|--------------|--|---|---|---|-------------------------------------|
| NEMA Size | Line Voltage | Catalog Number of Starter (D) = 120V separate. Control | Disconnect Switch less Lugs and Line Terminal Guard | Lug Kit (1 kit contains 3 lugs) | Line Terminal Guard | Plug Handle for Line Terminal Guard |
| 0 | 208 | 512-AAH, 512-AJH 512-ACH, 512-AFH | 1494F-D30 | Included on disconnect switch | 40392-801-51 | F-26083 |
| | 240 | 512-AAA(D), 512-AJA(D) 512-ACA(D), 512-AFA(D) | 1494F-D30 | Included on disconnect switch | 40392-801-51 | F-26083 |
| | 480 | 512-AAB, 512-AJB 512-ACB, 512-AFB | 1494F-D30 | Included on disconnect switch | 40392-801-51 | F-26083 |
| | 600 | 512-AAC(D), 512-AJC(D) 512-ACC(D), 512-AFC(D) | 1494F-D30 | Included on disconnect switch | 40392-801-51 | F-26083 |
| 1 | 208 | 512-BAH, 512-BJH 512-BCH, 512-BFH | 1494F-D30 | Included on disconnect switch | 40392-801-51 | F-26083 |
| | 240 | 512-BAA(D), 512-BJA(D) 512-BCA(D), 512-BFA(D) | 1494F-D30 | Included on disconnect switch | 40392-801-51 | F-26083 |
| | 480 | 512-BAB, 512-BJB 512-BCB, 512-BFB | 1494F-D30 | Included on disconnect switch | 40392-801-51 | F-26083 |
| | 600 | 512-BAC(D), 512-BJC(D) 512-BCC(D), 512-BFC(D) | 1494F-D30 | Included on disconnect switch | 40392-801-51 | F-26083 |
| 2 | 208 | 512-CAH, 512-CJH 512-CCH, 512-CFH | 1494F-D60 | 1494R-N1 (1 req'd) | 40392-801-51 | F-26083 |
| | 240 | 512-CAA(D), 512-CJA(D) 512-CCA(D), 512-CFA(D) | 1494F-D60 | 1494R-N1 (1 req'd) | 40392-801-51 | F-26083 |
| | 480 | 512-CAB, 512-CJB 512-CCB, 512-CFB | 1494F-D60 | 1494R-N1 (1 req'd) | 40392-801-51 | F-26083 |
| | 600 | 512-CAC(D), 512-CJC(D) 512-CCC(D), 512-CFC(D) | 1494F-D60 | 1494R-N1 (1 req'd) | 40392-801-51 | F-26083 |
| 3 | 208 | 512-DAH, 512-DJH 512-DCH, 512-DFH | 1494F-D100 | 1494R-N2 (1 req'd) | 40392-801-51 | F-26083 |
| | 240 | 512-DAA(D), 512-DJA(D) 512-DCA(D), 512-DFA(D) | 1494F-D100 | 1494R-N2 (1 req'd) | 40392-801-51 | F-26083 |
| | 480 | 512-DAB, 512-DJB 512-DCB, 512-DFB | 1494F-D100 | 1494R-N2 (2 req'd) | 40392-801-51 | F-26083 |
| | 600 | 512-DAC(D), 512-DJC(D) 512-DCC(D), 512-DFC(D) | 1494F-D100 | 1494R-N2 (2 req'd) | 40392-801-51 | F-26083 |
| 4 | 208 | 512-EAH, 512-EJH 512-ECH, 512-EFH | 1494F-D200 | 1494R-N3 (1 req'd) | 40392-801-52 | F-26087 |
| | 240 | 512-EAA(D), 512-EJA(D) 512-ECA(D), 512-EFA(D) | 1494F-D200 | 1494R-N3 (1 req'd) | 40392-801-52 | F-26087 |
| 5 | 480 | 512-EAB, 512-EJB 512-ECB, 512-EFB | 1494F-D200 | 1494R-N3 (1 req'd) | 40392-801-52 | F-26087 |
| | 600 | 512-EAC(D), 512-EJC(D) 512-ECC(D), 512-EFC(D) | 1494F-D200 | 1494R-N3 (1 req'd) | 40392-801-52 | F-26087 |
| 5 | 208 | 512-FAH, 512-FJH 512-FCH, 512-FFH | 1494F-D400 | 1494R-N15 (1 req'd) | 40392-801-53 | F-26088 |
| | 240 | 512-FAA(D), 512-FJA(D) 512-FCA(D), 512-FFA(D) | 1494F-D400 | 1494R-N15 (1 req'd) | 40392-801-53 | F-26088 |
| | 480 | 512-FAB, 512-FJB 512-FCB, 512-FFB | 1494F-D400 | 1494R-N15 (1 req'd) | 40392-801-53 | F-26088 |
| | 600 | 512-FAC(D), 512-FJC(D) 512-FCC(D), 512-FFC(D) | 1494F-D400 | 1494R-N15 (1 req'd) | 40392-801-5 | F-26088 |
| 6 | All | 512-GF*, 512-GC* | 1494F-DS600 | 1494R-N10 | Included w switch | Not Used |

Bulletin 512 Combination Starters with Fusible/Non-Fusible Disconnect Switch NEMA Sizes 0-7 Series One Construction

Handle and Mechanism Repair Parts

Operating Handle part numbers include two bags of hardware which include the defeater lever, door cover catch, and handle gasket.

| | | | |
|---|---|---|--|
|  <p>Operating Handle (cat. no. 1494F-M1 shown above)</p> |  <p>Mechanism for Operating Handle (cat. no. 1494F-MS36 shown above)</p> |  <p>Door Safety Hardware</p> |  <p>Enclosure Conduit Hub</p> |
|---|---|---|--|

| NEMA Sizes | Catalog Number of Starter | Enclosure NEMA Type | Operating Handle | Mechanism for Operating Handle | Door Safety (Vault) Hardware In Enclosure Door | Enclosure Conduit Hubs |
|------------|---|--|--|--------------------------------|--|--|
| 0-2 | 512-AA* 512-BA* 512-CA* | 1 | 1494F-P1 | 1494F-MS36 | Not Used | Not Used |
| 0-2 | 512-AD* 512-BD* 512-CD* | 3R/12 | 1494F-M1 | 1494F-MS36 | 1494F-V1 | Not Used |
| 0-2 | 512-AJ* 512-BJ* 512-CJ* | 3R/12 | 1494F-M1 | 1494F-MS36 | 1494F-V1 | Not Used |
| 0-2 | 512-AC* 512-BC* 512-CC* | 4/4X (stainless steel) | 1494F-S1 (stainless steel) | 1494F-MS36 | Not Used | (2) 1490-N10 (1) 1490-N9 |
| 0-2 | 512-AF* 512-BF* 512-CF* | 3R/4/12 | 1494F-P1 | 1494F-MS36 | Not Used | Not Used |
| 3 | 512-DA* 512-DD* 512-DJ* 512-DC* 512-DF* | 1 3R/12 3R/12 4/4X 3R/4/12 | 1494F-P1 1494F-M1 1494F-M1 1494F-S1 1494F-P1 | 1494F-MS100 | Not Used 1494F-V2 1494F-V2 Not Used Not Used | Not Used Not Used Not Used (2) 1490-N5; (1) 1490-N9 Not Used |
| 4 | 512-EA* 512-ED* 512-EJ* 512-EC* 512-EF* | 1 3R/12 3R/12 4/4X 3R/4/12 | 1494F-P1 1494F-M1 1494F-M1 1494F-S1 1494F-P1 | 1494F-MS200 | Not Used 1494F-V3 1494F-V3 Not Used Not Used | Not Used Not Used Not Used (2) 1490-N5; (1) 1490-N9 Not Used |
| 5 | 512-FA* 512-FD* 512-FJ* 512-FC* 512-FF* | 1 3R/12 3R/12 4/4X 3R/4/12 | 1494F-M2 1494F-M2 1494F-M2 1494F-S2 1494F-M2 | 1494F-MS400 | Not Used 1494F-V4 1494F-V4 Not Used Not Used | Not Used Not Used Not Used (2) 1490-N8; (1) 1490-N9 Not Used |
| 6 | 512-GF* 512-GC* | 3R/4/12 4/4X | 1494V-H2 1494V-W2 | 1494V-RB2 1494V-RB2 | Not Used Not Used | Not Used |
| 7 | 512-HF* | 3R/4/12 | 40021-656-01 | 40021-662-04 | Not Used | Not Used |

**Bulletin 512 Combination Starters with Fusible/Non-Fusible Disconnect Switch
NEMA Sizes 0-7 Series One Construction**

Enclosure Repair Parts

Enclosure Only repair parts include the external overload reset button (mounted in the cover).

Enclosure hole plugs, door safety hardware, conduit hubs are not included in the Enclosure Only repair part assemblies.

| NEMA Sizes | Catalog Number of Starter | Enclosure NEMA Type | Enclosure Only (less Mounting Plate) | Enclosure Mounting Plate | External Overload Reset Button | Enclosure Hole Plugs for External Reset, Door Hardware or Pilot Devices |
|------------|---|--|---|--|--|---|
| 0-2 | 512-AA* 512-BA* 512-CA* | 1 | 598-DA27108T | 598-P27108T1 | 1493-N21 | 800T-N1 (for pilot devices) 598-N1 (for resets and door hardware) |
| 0-2 | 512-AD* 512-BD* 512-CD* | 3R/12 | 598-DF27108T | 598-P27108T1 | 1493-N21 | 800T-N1 (for pilot devices) 598-N1 (for resets and door hardware) |
| 0-2 | 512-AJ* 512-BJ* 512-CJ* | 3R/12 | 598-DF27108T | 598-P27108T1 | Not Used | 800T-N1 (for pilot devices) 598-N1 (for resets and door hardware) |
| 0-2 | 512-AC* 512-BC* 512-CC* | 4/4X (stainless steel) | 598-DC27108T | 598-P27108T1 | 1493-N22 | 800T-N1 (for pilot devices) 598-N1 (for resets and door hardware) |
| 0-2 | 512-AF* 512-BF* 512-CF* | 3R/4/12 | 598-DF27108T | 598-P27108T1 | 1493-N21 | 800T-N1 (for pilot devices) 598-N1 (for resets and door hardware) |
| 3 | 512-DA* 512-DD* 512-DJ* 512-DC* 512-DF* | 1 3R/12 3R/12 4/4X 3R/4/12 | 598-DA302010T 598-DF302010T 598-DF302010T 598-DC302010T 598-DF302010T | 598-P302010T2 | 1493-N21 1493-N21 Not Used 1493-N22 1493-N21 | 800T-N1 (for pilot devices) 598-N1 (for resets and door hardware) |
| 4 | 512-EA* 512-ED* 512-EJ* 512-EC* 512-EF* | 1 3R/12 3R/12 4/4X 3R/4/12 | 598-DA302010T 598-DF302010T 598-DF302010T 598-DC302010T 598-DF302010T | 598-P302010T2 | 1493-N21 1493-N21 Not Used 1493-N22 1493-N21 | 800T-N1 (for pilot devices) 598-N1 (for resets and door hardware) |
| 5 | 512-FA* 512-FD* 512-FJ* 512-FC* 512-FF* | 1 3R/12 3R/12 4/4X 3R/4/12 | 598-DA563014T 598-DF563014T 598-DF563014T 598-DC563014T 598-DF563014T | 598-P5630T1 | 1493-N21 1493-N21 Not Used 1493-N22 1493-N21 | 800T-N1 (for pilot devices) 598-N1 (for resets and door hardware) |
| 6 | 512-GF* | 3R/4/12 | 598-DF603816T ① (Class R fusing) 598-DF563014T ① (Class J fusing) | Included with enclosure 598-P5630T1 | 1493-N21 1493-N21 | 800T-N1 (for pilot devices) 598-N1 (for resets and door hardware) |
| 6 | 512-GC* | 4/4X (stainless steel) | 598-DC603816T ② (Class R fusing) 598-DC563014T ② (Class J fusing) | Included with enclosure 598-P5630T1 | 1493-N21 1493-N22 | 800T-N1 (for pilot devices) 598-N1 (for resets and door hardware) |
| 7 | 512-HF* | 3R/4/12 | 598-DF844018T ① | Included with enclosure | 1493-N21 | 800T-N1 (for pilot devices) 598-N1 (for resets and door hardware) |

① Enclosure catalog number does not include the enclosure flange handle adapter plate. Order separately as catalog number 598-N7.

② Enclosure catalog number does not include the enclosure flange handle adapter plate. Order separately as catalog number 598-N10.

Important User Information

Because of the variety of uses for the products described in this publication, those responsible for the application and use of this control equipment must satisfy themselves that all necessary steps have been taken to assure that each application and use meets all performance and safety requirements, including any applicable laws, regulations, codes and standards.

The illustrations, charts, sample programs and layout examples shown in this guide are intended solely for purposes of example. Since there are many variables and requirements associated with any particular installation, Rockwell Automation does not assume responsibility or liability (to include intellectual property liability) for actual use based upon the examples shown in this publication.

Allen-Bradley publication SGI-1.1, *Safety Guidelines for the Application, Installation and Maintenance of Solid-State Control* (available from your local Allen-Bradley office), describes some important differences between solid-state equipment and electromechanical devices that should be taken into consideration when applying products such as those described in this publication.

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Throughout this document we use notes to make you aware of safety considerations:

ATTENTION

Identifies information about practices or circumstances that can lead to personal injury or death, property damage or economic loss



IMPORTANT

Identifies information that is critical for successful application and understanding of the product.

Use only replacement parts and devices recommended by Rockwell Automation to maintain the integrity of the equipment. It is the user's responsibility to ensure that the renewal part number selected is properly matched to the model, series and revision level of the equipment being serviced.

ATTENTION

Servicing energized Industrial Control Equipment can be hazardous. Severe injury or death can result from electrical shock, burn, or unintended actuation of controlled equipment. Recommended practice is to disconnect and lockout control equipment from power sources, and release stored energy, if present.



Refer to **National Fire Protection Association Standard No. NFPA70E, Part 2 and (as applicable) OSHA rules for Control of Hazardous Energy Sources (Lockout/Tagout) and OSHA Electrical Safety Related Work Practices** for safety related work practices, including procedural requirements for lockout/tagout, and appropriate work practices, personnel qualifications and training requirements where it is not feasible to de-energize and lockout or tagout electric circuits and equipment before working on or near exposed circuit parts.

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