# AC / DC Coil Codes & “-EI” Coil Upgrade Adders

## All Contactor and Starter Configurations

### A.C. Coil Codes & Voltage Ranges

All catalog numbers, list prices and enclosure dimensions in the previous section reflect contactors with AC coils. If necessary, add the appropriate price adder to the list price for each coil required. Remember that reversing applications require two coils (Price Adder x 2).

| A.C. Coil Codes (Replace "*" in cat.# with coil code) | CA7-9 thru CA7-97  | CA6-115, CA6-140  | CA6-115-EI  | CA6-140-EI  | CA6-115-EI  | CA6-140-EI  | CA6-300-EI  | CA6-300-EI  | CA6-300-EI  | CA6-300-EI  | CA6-630-EI  | CA6-630-EI  | CA6-630-EI  | CA5-1200  |
|-----------------------------------------------------|---------------------|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 50 Hz  | 60 Hz  | 50 Hz  | 60 Hz  | 50 / 60 Hz  | 50 / 60 Hz  | 50 / 60 Hz  | 50 / 60 Hz  | 50 / 60 Hz  | 50 / 60 Hz  | 50 / 60 Hz  | 50 / 60 Hz  | 50 / 60 Hz  | 50 / 60 Hz  | 50 / 60 Hz  |
| 24     |        | 24V    |        | 24V        |            |            |            |            |            |            |            |            |            |            |
| 242    |        | 24V    |        |            |            |            |            |            |            |            |            |            |            |            |
| 120    |        | 110V   | 120V   |            |            |            |            |            |            |            |            |            |            |            |
| 110    |        |        |        |            |            |            |            |            |            |            |            |            |            |            |
| 120B   |        | 110V   | 120V   |            |            |            |            |            |            |            |            |            |            |            |
| 208    |        | 208V   | 180V   |            |            |            |            |            |            |            |            |            |            |            |
| 208W   |        |        |        |            |            |            |            |            |            |            |            |            |            |            |
| 220W   |        | 200-220V | 208-240V |            |            |            |            |            |            |            |            |            |            |            |
| 240    |        | 220V   | 240V   |            |            |            |            |            |            |            |            |            |            |            |
| 240W   |        |        |        |            |            |            |            |            |            |            |            |            |            |            |
| 277    |        | 240V   | 277V   | 240V       | 277V        |            |            |            |            |            |            |            |            |            |
| 380    |        | 380-400V | 440V  | 380-400V   | 440V       |            |            |            |            |            |            |            |            |            |
| 440W   |        |        |        |            |            |            |            |            |            |            |            |            |            |            |
| 460W   |        |        |        |            |            |            |            |            |            |            |            |            |            |            |
| 480    |        | 440V   | 480V   | 415V       | 480V       |            |            |            |            |            |            |            |            |            |
| 575    |        |        |        |            |            |            |            |            |            |            |            |            |            |            |
| 600    |        | 550V   | 600V   | 550V       | 600V       |            |            |            |            |            |            |            |            |            |
| Price Adder |            |        |        |            |            |            |            |            |            |            |            |            |            |            |

### D.C. Coil Codes & Voltage Ranges

For starters with DC coils, select Coil Code from the table below. Remember that reversing applications require two coils (Price Adder x 2). Starter catalog numbers must be modified when using DC coils. For example: CAT7-9…CAT7-43 contactors, add an “E” to catalog number for Electronic DC Coils. i.e.: CAT7-9… becomes CAT7-9E… For CAT7-60…CAT7-97 contactors, add a “D” to catalog number. i.e.: CAT7-60… becomes CAT7-60D…

| D.C. Coil Codes (Replace "*" in cat.# with coil code) | CA7-9E..37E  | CA7-43E  | CA7-60D...97D  | CA6-115  | CA6-140  | CA6-115...300-EI  | CA6-140...300-EI  | CA6-420-EI  | CA6-630-EI  | CA6-630-EI  | CA6-630-EI  | CA6-630-EI  | CA6-630-EI  | CA5-1200  |
|-----------------------------------------------------|--------------|----------|-----------------|---------|---------|-------------------|-------------------|-----------|------------|------------|------------|------------|------------|------------|-----------|
| 24E        | ~            | 24VDCE   | 24VDCE          | ~       | ~       | ~                 | ~                 | ~         | ~          | ~          | ~          | ~          | ~          | ~          | ~         |
| 24DD       | 24D          | ~        | 24VDCE          | ~       | ~       | 24DC              | 24DC              | 24DC      | ~          | ~          | ~          | ~          | ~          | ~          | ~         |
| 48E        | ~            | 48VDCE   | 48VDCE          | ~       | ~       | ~                 | ~                 | ~         | ~          | ~          | ~          | ~          | ~          | ~          | ~         |
| 48DD       | 48D          | ~        | 48VDCE          | ~       | ~       | 48DC              | 48DC              | 48-72VDC  | ~          | ~          | ~          | ~          | ~          | ~          | ~         |
| 110E       | ~            | 110VDCE  | 110VDCE         | ~       | ~       | ~                 | ~                 | ~         | ~          | ~          | ~          | ~          | ~          | ~          | ~         |
| 110DD      | 110D         | ~        | 110VDCE         | ~       | ~       | 110VDCE           | 110VDCE           | ~         | ~          | ~          | ~          | ~          | ~          | ~          | ~         |
| ~          | 120D         | ~        | ~               | ~       | ~       | ~                 | ~                 | ~         | ~          | ~          | ~          | ~          | ~          | ~          | ~         |
| 125DD      | 125D         | ~        | ~               | ~       | ~       | 125VDCE           | 125VDCE           | ~         | ~          | ~          | ~          | ~          | ~          | ~          | ~         |
| 220E       | ~            | 220VDCE  | 220VDCE         | ~       | ~       | ~                 | ~                 | ~         | ~          | ~          | ~          | ~          | ~          | ~          | ~         |
| 220DD      | 220D         | ~        | 220VDCE         | ~       | ~       | 220VDCE           | 220VDCE           | 200-255VDC  | 200-255VDC | ~           | ~          | ~          | ~          | ~          | ~         |
| 250DD      | 250D         | ~        | 250VDCE         | ~       | ~       | 250VDCE           | 250VDCE           | ~         | ~          | ~          | ~          | ~          | ~          | ~          | ~         |
| Price Adder | ~            | ~        | ~               | ~       | ~       | ~                 | ~                 | ~         | ~          | ~          | ~          | ~          | ~          | ~          | ~         |

### Notes:

1. Only the most common coils are shown here. Other coil voltages available. Refer to Contactor Renewal Parts in Section A of this catalog, or contact nearest Sprecher+Schuh sales office.
2. Wide range coil.
3. “EI” Coils are field convertible to operate with PLC interface.
4. “DD” coils are standard for CA7-60...97D.
5. Add appropriate price adder(s) to list price of enclosed contactors and starters. Remember to add price for each coil required. Reversing applications require two coils (Price Adder x 2).
6. CA5 coils utilize a special coil pair arrangement with a feeder group. For detailed coil information, please refer to CA5 contactors in Section A.
7. CA7-9E...43E electronic coils are not interchangeable with non-electronic DC or AC coils.
8. Customers selecting a 24VDC coil should consider the “EI” functionality of CA6.

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**Discount Schedule A1...A5**

Visit www.sprecherschuh.com/ecatalog for the most up to date information. SSNA2012

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**AC / DC Coil Codes & -EI” Coil Upgrade Adders**

*All Contactor and Starter Configurations*
### CEP7 Second Generation Overload Relay Codes

**Series CAT7 and CAT6 Starters**

#### CA7 Starters with CEP7 Solid State Overload Relay

For use with contactor...

<table>
<thead>
<tr>
<th>Amp Range</th>
<th>Overload Relay Code (◆)</th>
<th>Catalog Number (of Overload Relay used)</th>
<th>Price Adder</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-Phase / Manual Reset / Class 10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CA7-9...CA7-23</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.1...0.5</td>
<td>D1AB</td>
<td>CEP7-ED1AB</td>
<td>Standard</td>
</tr>
<tr>
<td>0.2...1.0</td>
<td>D1BB</td>
<td>CEP7-ED1BB</td>
<td>Standard</td>
</tr>
<tr>
<td>1.0...5.0</td>
<td>D1CB</td>
<td>CEP7-ED1CB</td>
<td>Standard</td>
</tr>
<tr>
<td>3.2...16</td>
<td>D1DB</td>
<td>CEP7-ED1DB</td>
<td>Standard</td>
</tr>
<tr>
<td>5.4...27</td>
<td>D1EB</td>
<td>CEP7-ED1EB</td>
<td>Standard</td>
</tr>
<tr>
<td>CA7-30...CA7-43</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.0...5.0</td>
<td>D1CD</td>
<td>CEP7-ED1CD</td>
<td>Standard</td>
</tr>
<tr>
<td>3.6...16</td>
<td>D1DD</td>
<td>CEP7-ED1DD</td>
<td>Standard</td>
</tr>
<tr>
<td>5.4...27</td>
<td>D1ED</td>
<td>CEP7-ED1ED</td>
<td>Standard</td>
</tr>
<tr>
<td>9...45</td>
<td>D1FD</td>
<td>CEP7-ED1FD</td>
<td>Standard</td>
</tr>
<tr>
<td>CA7-60...CA7-97</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.4...27</td>
<td>EEE</td>
<td>CEP7-EEEE</td>
<td>Standard</td>
</tr>
<tr>
<td>9...45</td>
<td>EFE</td>
<td>CEP7-EEFE</td>
<td>Standard</td>
</tr>
<tr>
<td>18...90</td>
<td>EGE</td>
<td>CEP7-EEGE</td>
<td>Standard</td>
</tr>
<tr>
<td>60...120</td>
<td>EVE</td>
<td>CEP7-EEVE</td>
<td>Standard</td>
</tr>
</tbody>
</table>

#### Special Notes:

**Wye-Delta Starters** - First multiply motor full load current by 58%. Then, using this figure, select appropriate Overload Relay Code from tables above.

**Part Winding Starters** - First multiply motor full load current by 50%. Then, using this figure, select appropriate Overload Relay Code from tables above.

**Variable Frequency Drives** - CEP7 solid state overload relays cannot be utilized on VFDs or Softstarters with Braking option.

### Large Amp CEP7 Solid State Overload Relays, Automatic or Manual Adjustable Trip Class

<table>
<thead>
<tr>
<th>Directly Mounts to Contactor...</th>
<th>Adjustment Range (A)</th>
<th>Overload Relay Code (◆)</th>
<th>CT Ratio</th>
<th>Selectable Trip Class (10, 15, 20 &amp; 30)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA6-115...-180</td>
<td>30...150 EHF</td>
<td>150:5</td>
<td>CEP7-EEHF</td>
<td>Standard</td>
</tr>
<tr>
<td></td>
<td>40...200 EJF</td>
<td>200:5</td>
<td>CEP7-EEJF</td>
<td>Standard</td>
</tr>
<tr>
<td>CA6-210...-420</td>
<td>40...200 EJG</td>
<td>200:5</td>
<td>CEP7-EEJG</td>
<td>Standard</td>
</tr>
<tr>
<td></td>
<td>60...300 EKG</td>
<td>300:5</td>
<td>CEP7-EEKG</td>
<td>Standard</td>
</tr>
<tr>
<td></td>
<td>100...500 ELG</td>
<td>500:5</td>
<td>CEP7-EELG</td>
<td>Standard</td>
</tr>
<tr>
<td>CA6-630...-860</td>
<td>120...600 EMH</td>
<td>600:5</td>
<td>CEP7-EEMH</td>
<td>Standard</td>
</tr>
<tr>
<td></td>
<td>160...800 ENH</td>
<td>800:5</td>
<td>CEP7-EENH</td>
<td>Standard</td>
</tr>
</tbody>
</table>

#### Selectable Trip Class (10, 15, 20 & 30)

- **EPB** Standard
- **ERB** Standard
- **ESB** Standard
- **ETD** Standard
- **EUE** Standard
- **EEU** Standard
- **EEA** Standard
- **EEF** Standard
- **EEG** Standard
- **EEV** Standard

- **1-Phase / Automatic or Manual Reset / Class 10**

<table>
<thead>
<tr>
<th>Amp Range</th>
<th>Overload Relay Code (◆)</th>
<th>Catalog Number (of Overload Relay used)</th>
<th>Price Adder</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA7-9...CA7-23</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.0...5.0</td>
<td>EPB</td>
<td>CEP7S-EEPB</td>
<td>Standard</td>
</tr>
<tr>
<td>3.2...16</td>
<td>ERB</td>
<td>CEP7S-EEEB</td>
<td>Standard</td>
</tr>
<tr>
<td>5.2...27</td>
<td>ESB</td>
<td>CEP7S-EEEB</td>
<td>Standard</td>
</tr>
<tr>
<td>CA7-30...CA7-43</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9...45</td>
<td>ETD</td>
<td>CEP7S-EEFD</td>
<td>Standard</td>
</tr>
<tr>
<td>CA7-60...CA7-85</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18...90</td>
<td>EUE</td>
<td>CEP7S-EEJA</td>
<td>Standard</td>
</tr>
</tbody>
</table>

### Notes:

- **3-phase CEP7 units are only designed for 3∅ applications. Single phase CEP7S units are only designed for 1∅ applications.**
- **This reference is not intended to be a guide for selecting contactors. Size overload relays using the full load current of the motor.**
- **The reset time of a CEP7 set in the automatic mode is approximately 180 seconds.**
- **CEP7 Overload relays do not work with Variable Frequency Drives or any Sprecher + Schuh Softstarter with braking options.**

Visit www.sprecherschuh.com/ecatalog for the most up to date information.

Discount Schedule A1...A5
### Intelli-button Reset Kit Factory Modification

The CEP7-ERID Intelli-button plus your choice of side-mounted module can be ordered as a factory modification, installed in any control panel built by Sprecher + Schuh that contains a CEP7 EE overload relay. Just add the kit suffix shown below to the end of the starter catalog number. For example, CAT7-9-120-EEB-G0 becomes CAT7-9-120-EEB-G0-IB2

#### CEP7-ERID + Side Mount Module...

<table>
<thead>
<tr>
<th>Add to end of Catalog Number</th>
<th>Kit includes...</th>
<th>Price Adder</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remote Reset Only</td>
<td>-IB1 CEPE7-ERID CEPE7-EBR</td>
<td>200</td>
</tr>
<tr>
<td>Jam and Remote Reset</td>
<td>-IB2 CEPE7-ERID CEPE7-EJMR (B)</td>
<td>210</td>
</tr>
<tr>
<td>Thermistor Relay and Remote Reset</td>
<td>-IB3 CEPE7-ERID CEPE7-EPT</td>
<td>225</td>
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</table>

#### Ground Fault and Remote Reset

<table>
<thead>
<tr>
<th>Add to end of Catalog Number</th>
<th>Kit includes...</th>
<th>Price Adder</th>
</tr>
</thead>
<tbody>
<tr>
<td>-IB4 CEPE7-ERID CEPE7-EGF CEPE7-CBTC1 (45A)</td>
<td>260</td>
<td></td>
</tr>
<tr>
<td>-IB5 CEPE7-ERID CEPE7-EGF CEPE7-CBTC2 (90A)</td>
<td>385</td>
<td></td>
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<tr>
<td>-IB6 CEPE7-ERID CEPE7-EGF CEPE7-CBTC3 (180A)</td>
<td>436</td>
<td></td>
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<tr>
<td>-IB7 CEPE7-ERID CEPE7-EGF CEPE7-CBTC4 (420A)</td>
<td>497</td>
<td></td>
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#### Ground Fault and Jam and Remote Reset Module

<table>
<thead>
<tr>
<th>Add to end of Catalog Number</th>
<th>Kit includes...</th>
<th>Price Adder</th>
</tr>
</thead>
<tbody>
<tr>
<td>-IB8 CEPE7-ERID CEPE7-EGJ CEPE7-CBTC1 (45A)</td>
<td>295</td>
<td></td>
</tr>
<tr>
<td>-IB9 CEPE7-ERID CEPE7-EGJ CEPE7-CBTC2 (90A)</td>
<td>420</td>
<td></td>
</tr>
<tr>
<td>-IB10 CEPE7-ERID CEPE7-EGJ CEPE7-CBTC3 (180A)</td>
<td>471</td>
<td></td>
</tr>
<tr>
<td>-IB11 CEPE7-ERID CEPE7-EGJ CEPE7-CBTC4 (420A)</td>
<td>532</td>
<td></td>
</tr>
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</table>

### CA7 Starters with CT7N Bimetallic Overload Relay

#### Directly Mounts to Contactor...

<table>
<thead>
<tr>
<th>Amp Range</th>
<th>Overload Relay Code (◆)</th>
<th>Catalog Number</th>
<th>Price Adder</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.10...0.16</td>
<td>AA16 CT7N-23-A16</td>
<td>+4</td>
<td></td>
</tr>
<tr>
<td>0.16...0.25</td>
<td>AA25 CT7N-23-A25</td>
<td>+4</td>
<td></td>
</tr>
<tr>
<td>0.25...0.40</td>
<td>AA40 CT7N-23-A40</td>
<td>+4</td>
<td></td>
</tr>
<tr>
<td>0.35...0.50</td>
<td>AA50 CT7N-23-A50</td>
<td>+4</td>
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</tr>
<tr>
<td>0.45...0.63</td>
<td>AA63 CT7N-23-A63</td>
<td>+4</td>
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<tr>
<td>0.55...0.80</td>
<td>AA80 CT7N-23-A80</td>
<td>+4</td>
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<tr>
<td>0.75...1.0</td>
<td>AB10 CT7N-23-B10</td>
<td>+4</td>
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<tr>
<td>0.90...1.3</td>
<td>AB13 CT7N-23-B13</td>
<td>+4</td>
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</tr>
<tr>
<td>1.1...1.6</td>
<td>AB16 CT7N-23-B16</td>
<td>+4</td>
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<tr>
<td>1.4...2.0</td>
<td>AB20 CT7N-23-B20</td>
<td>+4</td>
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<tr>
<td>1.8...2.5</td>
<td>AB25 CT7N-23-B25</td>
<td>+4</td>
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<tr>
<td>2.3...3.2</td>
<td>AB32 CT7N-23-B32</td>
<td>+4</td>
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<tr>
<td>2.9...4.0</td>
<td>AB40 CT7N-23-B40</td>
<td>+4</td>
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<tr>
<td>3.5...4.8</td>
<td>AB48 CT7N-23-B48</td>
<td>+4</td>
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<tr>
<td>4.5...6.3</td>
<td>AB63 CT7N-23-B63</td>
<td>+4</td>
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<tr>
<td>5.5...7.5</td>
<td>AB75 CT7N-23-B75</td>
<td>+4</td>
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</tr>
<tr>
<td>7.2...10</td>
<td>AC10 CT7N-23-C10</td>
<td>+4</td>
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<tr>
<td>9.0...12.5</td>
<td>AC12 CT7N-23-C12</td>
<td>+4</td>
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<tr>
<td>11.3...16</td>
<td>AC16 CT7N-23-C16</td>
<td>+4</td>
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<td>15...20</td>
<td>AC20 CT7N-23-C20</td>
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<td>17.5...21.5</td>
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<tr>
<td>15...20</td>
<td>BC20 CT7N-37-C20</td>
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<td>17.5...21.5</td>
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<td>24.5...30</td>
<td>BC30 CT7N-37-C30</td>
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<td>BC36 CT7N-37-C36</td>
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<td>BC38 CT7N-37-C38</td>
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<tr>
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<td>CC25 CT7N-43-C25</td>
<td>+8</td>
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<td>24.5...36</td>
<td>CC36 CT7N-43-C36</td>
<td>+8</td>
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<tr>
<td>35...47</td>
<td>CC47 CT7N-43-C47</td>
<td>+8</td>
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<td>35...47</td>
<td>DC47 CT7N-85-C47</td>
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<td>45...60</td>
<td>DC60 CT7N-85-C60</td>
<td>+16</td>
<td></td>
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<td>58...75</td>
<td>DC75 CT7N-85-C75</td>
<td>+16</td>
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<tr>
<td>72...90</td>
<td>DC90 CT7N-85-C90</td>
<td>+16</td>
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</tr>
</tbody>
</table>

#### Special Notes:

**Wye-Delta Starters** - First multiply motor full load current by 58%. Then, using this figure, select appropriate Overload Relay Code from tables above.

**Part Winding Starters** - First multiply motor full load current by 50%. Then, using this figure, select appropriate Overload Relay Code from tables above.

Separately mounted overload is available. See Section B.
# Modifications

## Factory Assembled

### Modifications or Special Feature

<table>
<thead>
<tr>
<th>Modifications or Special Feature</th>
<th>Change Last Digit in Catalog Number To:</th>
<th>Add Suffix To Catalog Number</th>
<th>Enclosure Type</th>
<th>Controller Series and Price Addition</th>
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<td>Pilot Devices In Cover or Flange</td>
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<td>&quot;On-Off&quot; Pushbutton [x]</td>
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<td>Pilot Lights Only (2) [x]</td>
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<td>Pilot light w/ &quot;Start-Stop&quot; Pushbutton [x]</td>
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<td>Pilot Light w/ &quot;On-Off&quot; Pushbutton [x]</td>
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<td>Pilot Light w/ &quot;Off-On&quot; Selector Switch [x]</td>
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<td>&quot;For-Stop-Rev&quot;- Pushbutton [x]</td>
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<td>&quot;Up-Stop-Down&quot; Pushbutton</td>
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<td>Multi-Speed &quot;High-Stop-Low&quot; Pushbutton</td>
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<td>&quot;Fast-Stop-Slow&quot; Pushbutton</td>
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<td>M3, M4, F4, M12, M7</td>
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<td>Pilot Lights (2) w/ &quot;Up-Stop-Down&quot; Pushbutton [x]</td>
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<td>Pilot Lights (2) w/ &quot;Fast-Stop-Slow&quot; Pushbutton [x]</td>
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<td>Multi-Speed Pilot Lights (2) w/ &quot;For-Off-Rev&quot; Pushbutton [x]</td>
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<td>Pilot Lights (2) w/ &quot;Open-Off-Close Pushbutton [x]</td>
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</tbody>
</table>

### Ordering Instructions

- Change base Catalog Number according to instructions at top of column 2 or 3. Example: To Add a “Start-Stop” Pushbutton, Control Circuit Transformer (480/120) and RC Link: change CAT7-30-＊-GO to CAT7-30-XC-＊-G3-RC.

**Note:** Separate multiple modification suffixes with a hyphen (-).

- Pilot Lights may be applied with 24VAC/VDC, 120VAC or 240VAC Control Circuit. Pilot Lights with 380 VAC...575VAC require a control circuit transformer.
<table>
<thead>
<tr>
<th>Modifications or Special Feature</th>
<th>Change Last Digit in Catalog Number To:</th>
<th>Add Suffix To Catalog Number</th>
<th>Enclosure Type</th>
<th>Controller Series and Price Addition</th>
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<tbody>
<tr>
<td><strong>Control Circuit Transformer</strong> (with fused primary &amp; secondary)</td>
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<td>XA</td>
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<td>120</td>
<td>XB</td>
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<td>XC</td>
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<td><strong>Special Voltage Transformer</strong></td>
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<td><strong>Control Circuit (Other)</strong></td>
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<td>Fused Control Circuit - 1 Fuse</td>
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<td>Fused Control Circuit - 2 Fuses</td>
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<td>Fused Primary for separate or common control</td>
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<td>Combo Type M1, M3, M4, F4, M12, M7</td>
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<td>Control Circuit Interlock (installed on disconnect or circuit breaker. Specify N.O. or N.C.)</td>
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<td>Control Circuit Breaker (inside operated)</td>
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<td>Surge Suppressor - Varistor</td>
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**Ordering Instructions**

1. Change base Catalog Number according to instructions at top of column 2 or 3. Example: To Add a “Start-Stop” Pushbutton, Control Circuit Transformer (480/120) and RC Link: change CAT7-30-76-6G to CAT7-30-76-6G-RC.
2. Fused Control Circuit - 1 Fuse
3. Fused Control Circuit - 2 Fuses
4. Fused Primary for separate or common control
5. Control Circuit Interlock (installed on disconnect or circuit breaker. Specify N.O. or N.C.)
6. Control Circuit Fused Disconnect (inside operated)
7. Control Circuit Breaker (inside operated)
8. Surge Suppressor - RC Link
9. Surge Suppressor - Varistor
10. Surge Suppressor - Diode
11. Terminal Blocks (unwired) - price per point.

Note: Separate multiple modification suffixes with a hyphen (-).
## Modifications

### Modifications or Special Feature

<table>
<thead>
<tr>
<th>Change Last Digit in Catalog Number To</th>
<th>Add Suffix To Catalog Number</th>
<th>Enclosure Type</th>
<th>Controller Series and Price Addition</th>
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#### Additional Auxiliary Contacts

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<th>Type</th>
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<th>Enclosure Type</th>
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<td>L10</td>
<td>45</td>
<td>CA7-90 to 43</td>
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<td>1 N.C.</td>
<td>L01</td>
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<td>CA7-60 to 97</td>
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<td>1 N.O. &amp; 1 N.C.</td>
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<td>CA6-115(-EI) to 140(-EI)</td>
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<td>2 N.O.</td>
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<td>CA6-180(-EI) to 250(-EI)</td>
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#### Alternate Auxiliary Contact Arrangements

<table>
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<tr>
<th>Type</th>
<th>Description</th>
<th>Add Suffix To Catalog Number</th>
<th>Enclosure Type</th>
<th>Controller Series and Price Addition</th>
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<td>1 N.C.</td>
<td>in lieu of standard 1 N.O. (on CAT7)</td>
<td>LX1</td>
<td>N/C</td>
<td>CA7-90 to 43</td>
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<tr>
<td>2 N.C.</td>
<td>in lieu of standard 2 N.O. (on CAUT7)</td>
<td>LX2</td>
<td>7</td>
<td>CA7-60 to 97</td>
</tr>
</tbody>
</table>

#### Meters

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Add Suffix To Catalog Number</th>
<th>Enclosure Type</th>
<th>Controller Series and Price Addition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammeter - Single Phase</td>
<td>AM1</td>
<td>M1, M12</td>
<td>611</td>
<td>CA7-90 to 43</td>
</tr>
<tr>
<td>Voltmeter - Single Phase</td>
<td>VM1</td>
<td>M1, M12</td>
<td>1717</td>
<td>CA7-60 to 97</td>
</tr>
<tr>
<td>Ammeter - Three Phase (includes switch)</td>
<td>AM3</td>
<td>M1, M12</td>
<td>2513</td>
<td>CA6-115(-EI) to 140(-EI)</td>
</tr>
<tr>
<td>Voltmeter - Three Phase (includes switch)</td>
<td>VM3</td>
<td>M1, M12</td>
<td>2596</td>
<td>CA6-180(-EI) to 250(-EI)</td>
</tr>
<tr>
<td>Wattmeter</td>
<td>WM</td>
<td>M1, M12</td>
<td>3536</td>
<td>CA6-300(-EI) to 860(-EI)</td>
</tr>
<tr>
<td>Elapsed Time Meter</td>
<td>ETM</td>
<td>M1, M12</td>
<td>503</td>
<td>CA5-1200</td>
</tr>
</tbody>
</table>

#### Enclosures

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Add Suffix To Catalog Number</th>
<th>Enclosure Type</th>
<th>Controller Series and Price Addition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Omit M1 Standard Enclosure</td>
<td>F/A</td>
<td>M1</td>
<td>780</td>
<td>CA7-90 to 43</td>
</tr>
<tr>
<td>M12 or M3 Autotransformer Starters</td>
<td>Replace the second character from the end of the catalog number with: “D” for M12, “R” for M3, “W” for M4 &amp; “C” for F4</td>
<td>M1</td>
<td>1600</td>
<td>CA7-90 to 43</td>
</tr>
<tr>
<td>M4 or F4 Autotransformer Starters</td>
<td></td>
<td></td>
<td>2680</td>
<td>CA7-90 to 43</td>
</tr>
<tr>
<td>Space Heater (with N.C. interlock)</td>
<td>HTR</td>
<td>M1, M3, M4M F4 M12</td>
<td>610</td>
<td>CA7-90 to 43</td>
</tr>
<tr>
<td>Type 4x Breather and Drain</td>
<td>BD</td>
<td>M7</td>
<td>151</td>
<td>CA7-90 to 43</td>
</tr>
<tr>
<td>Service Identification Nameplate</td>
<td>F/A</td>
<td>All</td>
<td>34</td>
<td>CA7-90 to 43</td>
</tr>
</tbody>
</table>

### Ordering Instructions

- Change base Catalog Number according to instructions at top of column 2 or 3. Example: To Add a “Start-Stop” Pushbutton, Control Circuit Transformer (480/120) and RC Link: change CAT7-30-◆-GO to CAT7-30-XC-◆-G3-RC.

**Note:** Separate multiple modification suffixes with a hyphen (-).

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**Discount Schedule A1...A5**

SSNA2012

visit www.sprecherschuh.com/ecatalog for the most up to date information
## Modifications

### Control Circuit (continued)

<table>
<thead>
<tr>
<th>Modifications or Special Feature</th>
<th>Change Last Digit in Catalog Number To:</th>
<th>Add Suffix To Catalog Number</th>
<th>Enclosure Type</th>
<th>Controller Series and Price Addition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Control Relay</td>
<td>F/A</td>
<td></td>
<td>M1, M3, M12, Open</td>
<td>CA7-9 to 43</td>
</tr>
<tr>
<td>Limited to one controller-8 pole maximum</td>
<td></td>
<td></td>
<td>M4, F4, M7</td>
<td>CA7-60 to 97</td>
</tr>
<tr>
<td>Specify pole arrangement and voltage</td>
<td></td>
<td></td>
<td>M1, M3, M12, Open</td>
<td>CA6-115(-EI) to CA6-145(-EI)</td>
</tr>
<tr>
<td>Timing Relay</td>
<td>F/A</td>
<td></td>
<td>M4, F4, M7</td>
<td>CA6-180(-EI) to CA6-250-EI</td>
</tr>
<tr>
<td>Limited to one controller-specify “On” or “Off” delay. Voltage will be same as coil voltage</td>
<td></td>
<td></td>
<td>M4, F4, M7</td>
<td>CA6-300-EI to 860-EI</td>
</tr>
<tr>
<td>Compelling Relay</td>
<td>F/A</td>
<td>All, Open</td>
<td>578</td>
<td>CA5-1200</td>
</tr>
<tr>
<td>Progressive or Decelerating Relay</td>
<td>F/A</td>
<td>All, Open</td>
<td>1340</td>
<td></td>
</tr>
<tr>
<td>Omit Automatic Alternator</td>
<td>F/A</td>
<td>M1, M3, F4</td>
<td>-503</td>
<td></td>
</tr>
<tr>
<td>Omit overload protection from combination starters</td>
<td>F/A</td>
<td>All</td>
<td>-84</td>
<td></td>
</tr>
<tr>
<td>Program Timer (24 hour)</td>
<td>F/A</td>
<td>M3, F4</td>
<td>712</td>
<td></td>
</tr>
<tr>
<td>Undervoltage Relay</td>
<td>F/A</td>
<td>M3, F4</td>
<td>774</td>
<td></td>
</tr>
<tr>
<td>Lockout Relay (For inherently protected motors)</td>
<td>F/A</td>
<td>M3, F4</td>
<td>268</td>
<td></td>
</tr>
<tr>
<td>Percentage Timer</td>
<td>F/A</td>
<td>M3, F4</td>
<td>670</td>
<td></td>
</tr>
<tr>
<td>Miscellaneous</td>
<td></td>
<td></td>
<td>358</td>
<td></td>
</tr>
<tr>
<td>Lighting Arrestor</td>
<td>LA</td>
<td>M3, F4</td>
<td>438</td>
<td></td>
</tr>
<tr>
<td>Surge Capacitor</td>
<td>SC</td>
<td>M3, F4</td>
<td>503</td>
<td>R/F</td>
</tr>
<tr>
<td>Phase Monitor Relay</td>
<td>F/A</td>
<td>All</td>
<td>193</td>
<td>R/F</td>
</tr>
<tr>
<td>Omit overload protection from combination starters</td>
<td>F/A</td>
<td>All</td>
<td>503</td>
<td></td>
</tr>
<tr>
<td>Omit external reset button</td>
<td>F/A</td>
<td>All</td>
<td>193</td>
<td></td>
</tr>
<tr>
<td>Mechanical Latch (voltage will be matched to contactor coil)</td>
<td>F/A</td>
<td>All</td>
<td>193</td>
<td></td>
</tr>
</tbody>
</table>

### Certifications

- **UL508A or SUSE label**
  Most starter assemblies can be supplied with a UL508A ‘Industrial Control Panel’ label. Combination starters can be supplied with Suitable for Service Entrance (SUSE) label. The need for a UL508A or SUSE label must be identified at the time of quotation as well as on the purchase order. The need for a UL508A label may not change the components we would normally use but we must consider all possible requirements at the time we are developing the bill-of-material to be referenced at the time of order entry. Failure to identify the need for a UL508A label or SUSE label at the time of quotation may result in change notice price adders.

- **ATEX Certification**
  A requirement for ATEX certification MUST be identified at the time of quotation as well as on the purchase order. ATEX certification of a Type 7/9 explosion proof enclosure definitely requires all conduit and cover openings to be drilled by the enclosure manufacturer. Further, all pilot devices and equipment to be installed must be identified as it controls the heat dissipation which is an ATEX certification requirement. Absolutely no field modification of an ATEX certified starter assembly is allowed. Failure to identify the need for an ATEX certification at the time of quotation and order entry may result in 100% cancellation or re-stocking charge since a new enclosure will be required.

### Ordering Instructions

- Change base catalog number according to instructions at top of column 2 or 3.
- **Example:** To Add a “Start-Stop” Pushbutton, Control Circuit Transformer (480/120) and RC Link: change **CAT7-30 -◆-80 to CAT7-30-XC-◆-G3-RC**.

- **Note:** Separate multiple modification suffixes with a hyphen (-).

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### Discounts

**Discount Schedule A1...A5**

Visit [www.sprecherschuh.com/ecatalog](http://www.sprecherschuh.com/ecatalog) for the most up to date information
### Pilot Device Kits – All applications (except Kwikstarters and Explosion Proof enclosures)

<table>
<thead>
<tr>
<th>Kits</th>
<th>Description</th>
<th>Contact Blocks included</th>
<th>For Use With Enclosure…</th>
<th>Catalog Number</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multi-Function Pushbutton kit  ⚫ START-STOP</td>
<td>Non-illuminated, Standard for “A” and “B” Box Kits.</td>
<td>1 1</td>
<td>Type 1, 12, 3R, 4, 4X, 13</td>
<td>SS6-D7P</td>
<td>55</td>
</tr>
<tr>
<td>Multi-Function Pushbutton kit  ⚫ FORWARD-STOP-REVERSE</td>
<td>Non-illuminated, Standard for “A” and “B” Box Kits.</td>
<td>2 3</td>
<td>Type 1, 12, 3R, 4, 4X, 13</td>
<td>SS5-D7P</td>
<td>103</td>
</tr>
<tr>
<td>STOP and START</td>
<td>Two button pushbutton kit</td>
<td>1 1</td>
<td>Type 1, 12, 3R, 4, 4X, 13</td>
<td>SS1-D7P</td>
<td>64</td>
</tr>
<tr>
<td>FORWARD, REVERSE and STOP  ⚫</td>
<td>Three button pushbutton kit</td>
<td>2 3</td>
<td>Type 1, 12, 3R, 4, 4X, 13</td>
<td>SS7-D7P</td>
<td>119</td>
</tr>
<tr>
<td>HAND-OFF-AUTO selector switch kit</td>
<td>Name plate included.</td>
<td>2 0</td>
<td>Type 1, 12, 3R, 4, 4X, 13</td>
<td>SS2-D7P</td>
<td>54</td>
</tr>
<tr>
<td>FWD-OFF-REV selector switch kit</td>
<td>Name plate included.</td>
<td>2 0</td>
<td>Type 1, 12, 3R, 4, 4X, 13</td>
<td>SS9-D7P</td>
<td>54</td>
</tr>
<tr>
<td>OFF-ON selector switch kit</td>
<td>Name plate included.</td>
<td>1 0</td>
<td>Type 1, 12, 3R, 4, 4X, 13</td>
<td>SS4-D7P</td>
<td>41</td>
</tr>
<tr>
<td>Monolithic Pilot Light kit</td>
<td>LED Lamp and lens cap Does not include nameplate</td>
<td>–</td>
<td>Type 1, 12, 3R, 4, 4X Replace ⚫ with color choice</td>
<td>SS8-D7D-✪</td>
<td>37</td>
</tr>
</tbody>
</table>

#### NEMA / UL Type Definitions

<table>
<thead>
<tr>
<th>For a degree of protection against:</th>
<th>NEMA / UL TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Indoor Use</td>
</tr>
<tr>
<td>Incidental contact with enclosed equipment</td>
<td>1 12 13 3R 3 4 4x 6P 6</td>
</tr>
<tr>
<td>Falling dirt</td>
<td>⚫ ⚫ ⚫ ⚫ ⚫ ⚫ ⚫</td>
</tr>
<tr>
<td>Rust</td>
<td>⚫ ⚫ ⚫ ⚫ ⚫ ⚫ ⚫</td>
</tr>
<tr>
<td>Circulating dust, lint, fibers and flyings</td>
<td>⚫ ⚫ ⚫ ⚫ ⚫ ⚫</td>
</tr>
<tr>
<td>Windblown dust</td>
<td>⚫ ⚫ ⚫ ⚫</td>
</tr>
<tr>
<td>Falling liquids and light splashing</td>
<td>⚫ ⚫ ⚫ ⚫</td>
</tr>
<tr>
<td>Rain (limited water allowed inside)</td>
<td>⚫ ⚫ ⚫</td>
</tr>
<tr>
<td>Rain (no water allowed inside)</td>
<td>⚫ ⚫</td>
</tr>
<tr>
<td>Snow and sleet</td>
<td>⚫ ⚫ ⚫</td>
</tr>
<tr>
<td>Hosedown and splashing water</td>
<td>⚫ ⚫</td>
</tr>
<tr>
<td>Occasional prolonged submersion</td>
<td>⚫</td>
</tr>
<tr>
<td>Oil or coolant spraying or splashing</td>
<td>⚫</td>
</tr>
<tr>
<td>Corrosive agents</td>
<td>⚫</td>
</tr>
<tr>
<td>Occasional temporary submersion</td>
<td>⚫</td>
</tr>
</tbody>
</table>

- ⚫ Pilot Device Kits do not include control wires. See instruction sheet for installation.
- Multi-function START/STOP pushbutton are standard for General Purpose Type 1(M1) dimensions A and B enclosures.
- Not for “A” or “B” Box

Example of pushbutton kits on an “A” Box
Type 1 (M1) General Purpose Enclosures

Enclosure (Box) Kit Includes:
- Hinged cover
- Backpan pre-drilled for listed arrangements (not tapped)
- (2) Ground Lugs and Symbol label
- (2) 22mm knockouts for pilot devices
- CEP7-ERA Overload Reset Adapter
- MR7 Reset Kit for Cover
- (2) 22mm knockouts for Reset
- Dual Conduit knockouts - Top and Bottom
  "A" Box - (2) 1/2 to 3/4" and (1) 3/4 to 1"
  "B" Box - (2) 1/2 to 3/4", (1) 1 to 1-1/4", (1) 3/4 to 1"
- (4) 8-32 x 1/2" screws for mounting controllers
  "B" Box also includes (2) 10-32 x 3/4" screws
- Does not include wire

Optional: 35mm DIN Rail Kit with (2) 10-32 x 1" screws

Dimensions

For use with Controller

<table>
<thead>
<tr>
<th>CEPT-ED1*</th>
<th>CEPT-EE*</th>
<th>CT7N</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>For use with Controller</th>
<th>&quot;A&quot; Box Kit accommodates</th>
<th>&quot;B&quot; Box Kit accommodates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use with No CPT</td>
<td>Use with 50VA CPT</td>
<td>Space for 2&quot; DIN Rail</td>
</tr>
<tr>
<td>CEPT7-ED1*</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>CEPT7-EE*</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>CT7N</td>
<td>✔</td>
<td>✔</td>
</tr>
</tbody>
</table>

Non-reversing Contactors

CA7-9…43

CA7-60…85 ✔

Reversing Contactors

CA7T-9…37

CA7T-43

CA7T-60…85 ✔

Non-Reversing Starters

CAT7-9…23

CAT7-30…37

CAT7-60…85 ✔

Reversing Starters

CA7T-9…23

CA7T-30…37

CA7T-43

CA7T-60…85 ✔

NEMA Sized Non-reversing Starters

CATN7-12…16

CATN7-37

CATN7-43

CATN7-85

This enclosure is designed for use with a D7 multi-function Start/Stop as standard plus a D7D monolithic pilot light to fit the (2) 22mm knockouts provided. Additional pilot device holes will require field drilling and may interfere with the controller or the addition of a CPT or TB’s.

(2) 22mm knockout locations are provided for one reset Kit to be located contingent on the type of controller used. See box Instruction sheet for mounting details of controller and reset kit.

For enclosure dimensions see page C110

CA7-97 and CAT7-97 will not fit in "B" Box because of wire bending space requirements. See Selection tables for box sizes starting on page C106 for dimensions.