# Non-Reversing & Reversing Contactors

The complete range of c3controls Series 300 Non-Reversing and Series 310 Reversing Contactors share common accessories, reducing inventory and enabling the devices to be customized for each application. Small size, IP20 guarded terminals with dual terminal markings, enhance the features and performance of your equipment.

## Delivering Superior Product Quality and Manufacturing Excellence

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<tr>
<th>Feature</th>
<th>Description</th>
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<tr>
<td>Proven</td>
<td>Our Series 300 and 310 Standard Contactors are UL Listed and CE marked, meeting global standards requirements.</td>
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<tr>
<td>Compact Size</td>
<td>Reduced panel area for lower installed costs—Four (4) frame sizes directly interchangeable with other manufactures.</td>
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<td>Lower Cost</td>
<td>Snap-on front mounted and side mounted auxiliary contacts install without the use of tools for lower installed costs.</td>
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<td>Convenient</td>
<td>Wide variety of AC and DC operating coils for control circuit application flexibility. 50A to 105A DC operated devices feature electronic coil control.</td>
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<td>Easy to Install</td>
<td>35mm DIN rail mounting for all contactors from 9A to 105A for fast and easy installation and removal, or panel mounting for more secure installation in high shock and vibration applications.</td>
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<tr>
<td>Modular Design</td>
<td>Modular design allows easy installation of Series 320 Overload Relays and the complete range of Series 330 Motor Protection Circuit Breakers and accessories.</td>
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<td>Visible Certifications</td>
<td>Our product certifications and electrical ratings are clearly marked on the outside of the device for easy reference during installation.</td>
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<tr>
<td>Environmentally Friendly</td>
<td>Environmentally friendly contacts are cadmium free and non-metallic materials are asbestos, halogen, and cadmium free. All c3controls products are compliant to the RoHS directives.</td>
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<td>Added Safety</td>
<td>IP20 guarded terminals with dual terminal markings prevent accidental contact with live parts.</td>
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<tr>
<td>Lifetime Warranty*</td>
<td>Every product is backed by our lifetime warranty—unmatched in the industry—bringing you quality components that perform in the most demanding applications.</td>
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<td>Guaranteed Same-Day Shipping*</td>
<td>Product availability reduces inventory, and improves cash-flow—saving you money. With c3controls any order for standard catalog items received by 6:00pm ET is guaranteed to ship same-day.</td>
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<tr>
<td>Advantage Pricing</td>
<td>Our approach to product development, manufacturing, and focus on servicing the OEM and Electrical Equipment Builder reduces cost. The result—the best value in the industry.</td>
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*See c3controls Terms & Conditions

## Unique Product Line Features

### High Fault SCCR
- High fault short circuit current rating of 100KA @ 480V and 600V with Class J fuses, provides safety and reliability in high fault applications.

### Integral Auxiliary
- Integral auxiliary contacts, 3 power poles + 1 auxiliary, are standard on all c3controls 9A to 25A non-reversing contactors.

### Seamless Compatibility
- c3controls Series 310, 9A to 25A, AC/DC Reversing Contactors are compatible with directly mounted Series 320-B2 Overload Relays, and our 9A to 40A AC/DC Reversing Contactors direct mount onto Series 330 Motor Protection Circuit Breakers.

### Common Accessories
- Designing starter assemblies and panels is easy! No more remembering which auxiliary works with each contactor. Our complete range of Series 300 Non-Reversing and Series 310 Reversing Contactors shares common accessories reducing inventory and simplifying installation and assembly.

### Multi-Point Terminal Coils
- Four terminal coils on all 9A to 105A AC and DC operated contactors are easily accessible, two on the line side and two on the load side.

### Quick Identification
- Enhanced markings, improved identification labels, and dual IEC and NEMA terminal markings ensure quick identification of product from all angles simplifying troubleshooting in panels with many devices.
**SPECIFICATIONS**

|-------------|---------|---------|---------|----------|

**ELECTRICAL GENERAL**

- **Rated Operating Frequency**
  - Hz: 25 – 400

- **Rated Coil Frequencies**
  - mΩ: AC 50Hz, 60Hz, 50/60Hz, DC & DC/AC 50/60Hz

**ELECTRICAL UL/CSA APPLICATIONS**

- **Rated Operating Voltage, VAC**
  - 600

- **General Purpose Current Rating**
  - A: 32 60 110 140

- **RATED 1 PHASE OPERATING CURRENT, Ie**
  - 115V: A 24 34 80 100
  - 230V: A 28 34 50 80

- **RATED 1 PHASE OPERATING POWER, Pe**
  - 115V: HP 2 3 7/12 10
  - 230V: HP 3 5 15 20

- **RATED 3 PHASE OPERATING CURRENT, Ie**
  - 200V: A 25.3 32.2 62.1 92
  - 230V: A 22 42 68 104
  - 460V: A 21 40 65 90
  - 575V: A 17 27 62 77

- **RATED 3 PHASE OPERATING POWER, Pe**
  - 200V: HP 7/11 10 20 30
  - 230V: HP 7/12 15 20 40
  - 460V: HP 15 30 50 75
  - 575V: HP 15 25 60 75

- **Size**
  - 0 1 2 3

- **Short Circuit Rating**
  - kA: 5 10 10 10

- **Max Fuse Size**
  - A: 60 60 150 200

- **High Fault Short Circuit Rating**
  - kA: 100

- **Max. Fuse Size**
  - A: 40 60 125 175

- **Electrical Endurance, AC-3 at Max. Rated 3 Phase Operating Power (6-460V)**
  - Ops. (mil): 2.0 1.5 1.8 1.5

**ELECTRICAL IEC APPLICATIONS**

- **Rated Insulation Voltage, UI**
  - V: 1000

- **Rated Impulse Voltage Withstand, Uimp**
  - kV: 6 6 8 8

- **Rated Operating Voltage, VAC**
  - 690

- **Rated Thermal Current, Ith for Ambient Temp. <55°C**
  - A: 45 60 110 140

- **RATED AC-1 OPERATING CURRENT, Ie**
  - 415 ~ 440V: A 45 60 110 140
  - 380 ~ 400V: A 45 60 110 140
  - 220 ~ 240V: A 32 48 80 105

- **RATED AC-3 OPERATING CURRENT, Ie**
  - 500V: A 19 32 63 85
  - 860 ~ 690V: A 15 25 48 80

- **RATED 3 PHASE AC-3 OPERATING POWER, Pe**
  - 220 ~ 240V: kW 6.5 11 22 30
  - 380 ~ 400V: kW 11 18.5 37 55
  - 415 ~ 440V: kW 12.5 22 45 55
  - 500V: kW 15 25 45 65
  - 860 ~ 690V: kW 15 30 45 65

- **RATED SHORT-TIME CURRENT, Icw**
  - 1 Second: A 630 1265 2530 3300
  - 5 Seconds: A 280 450 1130 1485
  - 10 Seconds: A 200 400 800 1000
  - 30 Seconds: A 115 230 460 600
  - 1 Minute: A 80 165 325 430
  - 3 Minutes: A 50 100 185 250

**MAXIMUM ELECTRICAL SWITCHING RATE**

- **AC-1, AC-3**
  - Ops./hr: 1200 1200 1200 1200

- **AC-4**
  - Ops./hr: 360 200 200 200

- **Electrical Endurance, AC-3 at Max. Rated 3 Phase Operating Power (6-460V)**
  - Ops. (mil): 1.8 1.3 1.4 1.2

- **Making Capacity**
  - A: 450 1500 2000 2500

**BREAKING CAPACITY**

- **Ue ≤ 400V, Ue = 500V**
  - A: 250 450 920 1050

- **Ue = 690V**
  - A: 130 205 780 950

**ROHS COMPLIANCE**


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**DIMENSIONS**

**Non-Reversing, AC Coil (Series 300-509, 300-512, 300-518 & 300-525)**

**Reversing, AC Coil (Series 310-509, 300-512, 300-518 & 300-525)**

**Non-Reversing, AC Coil (Series 310-550, 300-565 & 300-580)**

**Non-Reversing, AC Coil (Series 310-595 & 300-5105)**

**PROVEN**

Conformity to Standards:
- UL 508, 60947-4-1A
- CSA C22.2 No. 14
- IEC 60947-1, 60947-4-1

Certifications:
- UL File #: E236597 (Guide NLDX, NLDX7, E68568 (Guide NWC, NWC7)
- CE Marked (per EU Low Voltage Directive 2006/95/EC and RoHS Directive 2011/65/EU)

Visit c3controls.com to download product certifications.