The c3controls Series 620 Direct-On-Line (DOL) Starters are assemblies of a Series 300 Contactor and a Series 320 Overload Relay. The contactor provides the repeated On/Off switching for the motor. The overload relay includes Class 10 thermal trip elements for overload protection of the motor and motor branch circuit conductors. Small size, IP20 guarded terminals with dual terminal markings, and shared accessories will help reduce your total installed costs and enhance the features and performance of your equipment.

DELIVERING SUPERIOR PRODUCT QUALITY AND MANUFACTURING EXCELLENCE

- **Proven**: Our Series 620 DOL Starters are UL Listed and CE marked meeting global standards requirements.
- **Compact Size**: Four (4) frame sizes for devices rated from 9A to 105A. Starter rated 15HP @ 460V (11kW @ 400V) are only 45mm (1-49/64") wide reducing panel area requirements – smaller enclosures can be used for lower installed costs.
- **Lower Cost**: Snap-on front mounted and side mounted auxiliary contacts install without the use of tools for lower installed costs.
- **Visible Markings**: High-visibility labels and markings. Dual IEC and NEMA terminal markings for easy wiring anywhere in the world.
- **Easy to Install**: 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.
- **Visible Certifications**: Our product certifications and electrical ratings are clearly marked on the outside of the devices for easy reference during installation.
- **Added Safety**: IP20 guarded terminals with dual terminal markings prevent accidental contact with live parts.
- **Lifetime Warranty**: Every product is backed by our lifetime warranty—unmatched in the industry—bringing you quality components that perform in the most demanding applications.
- **Guaranteed Same-Day Shipping**: 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.
- **Advantage Pricing**: 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.

**UNIQUE PRODUCT LINE FEATURES**

**Convenience**
- Factory assembly of a Series 300 Contactor and Series 320 Overload Relay provides the convenience of a single catalog number and shorter control panel bill of material.

**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.

**Adjustable Current Setting**
- Full load current adjustment ratio of approximately 1:1.5 enables overload relay to be set to exact Full Load Ampere (FLA) of motor.

**Selectable Reset Mode**
- Manual or automatic reset and test modes, and stop button all in a single device for convenient control circuit wiring.

**Trip Test Function**
- Trip test function comes standard on all c3controls Series 320-B2 to 320-B5 overload relays and allows for easier installation, testing, and troubleshooting.

*See c3controls Terms & Conditions*
## SPECIFICATIONS

<table>
<thead>
<tr>
<th>STARTER CURRENT RATING CODE</th>
<th>S09–S25</th>
<th>S32–S40</th>
<th>S50–S80</th>
<th>S95–S105</th>
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<tr>
<td>UNITS</td>
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### ELECTRICAL GENERAL

- **Rated Operating Frequency**: Hz 25 – 400
- **Rated Control Frequencies**: Hz AC: 50Hz, 60Hz, 50/60Hz and DC

### ELECTRICAL UL/CSA APPLICATIONS

- **Rated Operating Voltage, $U_e$**: VAC 600
- **Standard Short Circuit Current**: kA 5, 10
- **Max. Fuse Size**: A 60, 150, 200
- **High Fault Short Circuit Current**: kA 100
- **Max. Fuse Size (Class J) - varies by current adjustment range of overload relay**: A 40, 60, 125, 175

### ELECTRICAL IEC APPLICATIONS

- **Rated Insulation Voltage, $U_i$**: V 1,000
- **Rated Impulse Voltage, $U_{imp}$**: kV 6
- **Rated Operating Voltage, $U_e$**: VAC 690

### COIL CHARACTERISTICS

- **Rated Insulation Voltage, $U_i$**: V 1,000
- **Operating Limits**: 80 ~ 110% of Rated Coil Voltage

### ENVIRONMENTAL

- **Ambient Operating Temperature**: °C / °F -25 to +55 / -13 to +131
- **Ambient Storage Temperature**: °C / °F -40 to +70 / -104 to +131
- **Altitude**: m / ft. 2,000 / 6,528

### CONSTRUCTION - GENERAL

- **Number of Poles**: 3
- **Pollution Degree**: 3
- **Trip Class**: 10
- **INGRESS PROTECTION**: IP20

### ROHS COMPLIANCE

For RoHS compliance documentation by product, refer to www.c3controls.com.

For complete ratings and detailed specifications refer to www.c3controls.com.

Visit c3controls.com to download product certifications.