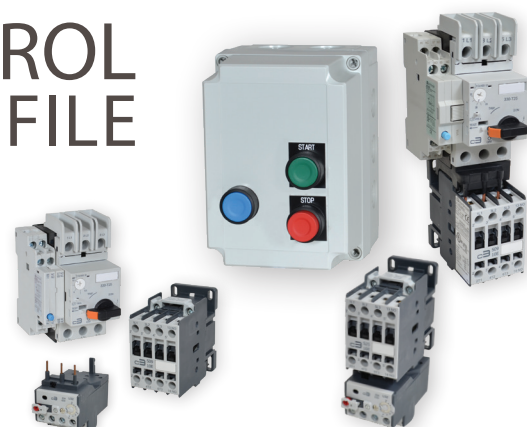


MOTOR CONTROL PRODUCT LINE



MOTOR CONTROL PRODUCT PROFILE

Within our comprehensive portfolio of **Motor Control** devices, you will find products designed and manufactured to meet your specific requirements for optimum performance, modular compact design, reduced panel size, flexible configuration options and international compliance.



C3CONTROLS MOTOR CONTROL PRODUCTS EXCEED THE DEMANDS OF THE INDUSTRY






✓ Proven	Our motor control products are UL Listed and CE marked meeting global standards requirements. 
✓ Integrated Modular Design	Our contactors, overload relays, and motor protection circuit breakers are designed to work together with common connections and complementary add-on accessories.
✓ Compact	Our compact motor control devices enable you to assemble smaller control panels, saving you installation costs.
✓ Flexible Installation	The unique design of our contactors, overload relays, and motor protection circuit breakers allows them to be assembled as single units for simple DIN rail or panel mount installations.
✓ Reliable Protection	Our motor control devices provide reliable and accurate Trip Class 10 protection against overload and phase-loss conditions, and our motor protection circuit breakers can be individually used as manual motor controllers or with contactors in group motor installations.
✓ Visible Certifications	Our product certifications and electrical ratings are clearly marked on the outside of the devices for easy reference during installation.
✓ Self-Protected	Our Type E devices eliminate the need for upstream fuses and circuit breakers, and they provide motor disconnect means, branch short circuit and ground fault protection, motor control, and motor overload protection.
✓ Convenient	Our assembled starters and enclosed starters save you time by providing the convenience of a single catalog number.
✓ 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.
✓ Quick Shipment	We assemble, test and ship within 3 days, including legend plates—and confirm every order ensuring accuracy.
✓ 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.

*See c3controls Terms & Conditions

NFPA 70—NATIONAL ELECTRICAL CODE (NEC)

Understanding what functions are needed in your motor control circuit is critical when selecting motor control devices. Engineers benefit from the standards and codes established to ensure safety and protection to personnel and equipment.

More than just knowing the standards, c3controls, as a manufacturer of motor control products, has the application expertise you need to select the right products.

c3controls & Article 430 - Motors, Motor Circuits and Controllers					
	To Supply	NEC Part	c3controls Product Series		
Motor disconnecting means		Part IX	330	630	Type E: 330, 630
Motor branch-circuit, short circuit, and ground-fault protection		Part IV			Type E: 330, 630
Motor circuit conductor		Part II			
Motor controller		Part VII	300/310, 330	620, 630	Type E: 330, 630
Motor control circuits		Part VI			
Motor overload protection		Part III	320, 330	620, 630	Type E: 330, 630
Motor		Part I			



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FEATURES

series 300 series 310



NON-REVERSING & REVERSING CONTACTORS

- Standard and miniature sizes available, including control relays.
- Four frame sizes for devices rated from 9A to 105A.
- Integral auxiliary contact, 3 power poles + 1 auxiliary, are standard on all 9A to 25A contactors.
- AC and DC operating coils for control circuit application flexibility.

series 320



BIMETALLIC OVERLOAD RELAYS

- Available in five frame sizes for motor full load currents from 0.28A to 112A.
- Provides thermal Trip Class 10 overload protection.
- Multi-function reset button enables selection of reset mode and test function.
- Single phase sensitivity for phase loss protection.

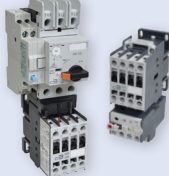
series 330 series E330



MOTOR PROTECTION CIRCUIT BREAKERS

- Available as open or enclosed.
- Two versions available—Thermal/Magnetic trip element and Magnetic only trip element.
- For use in group motor installations and certified as Manual Motor Controllers Suitable as Motor Disconnects.
- UL Listed Type E devices are available.

series 620 series 630



DIRECT-ON-LINE (DOL) STARTERS

- Assemblies offer the convenience of a single catalog number.
- Assemblies of Series 300 and 320, or Series 330 and 300.
- Unobstructed access to the coil terminals for simple control circuit wiring.
- UL Listed Type E assemblies are available for Series 630.

series E620 series E630



ENCLOSED DIRECT-ON-LINE (DOL) STARTERS

- Assemblies offer the convenience of a single catalog number.
- Factory assembled and wired with the option of no pre-wiring.
- Polycarbonate enclosures are rated Type 1, 4/4X and IP66.
- UL Listed Type E assemblies are available for Series E630.

CERTIFICATIONS

Conformity to Standards:

Contactors

UL 508, 60947-4-1A
CSA C22.2 No. 14
IEC 60947-1, 60947-4-1

Miniature Contactors

UL 508, 60947-4-1A
CSA C22.2 No. 14
IEC 60947-1, 60947-4-1

Miniature Control Relays

UL 508
CSA C22.2 No. 14
IEC 60947-1, 60947-5-1

Overload Relays

UL 508, 60947-4-1A
CSA C22.2 No. 14
IEC 60947-1, 60947-4-1

Motor Protection Circuit Breakers

UL 508, 60947-4-1A
CSA C22.2 No. 14
IEC 60947-1, 60947-4-1

Series E330 - Enclosures

IEC 60529

Series E620 & E630 - Enclosures

UL 50
CSA C22.2 No. 94
IEC 60529

Certifications:

UL File #: E236197 (Guide NLDX, NLDX7),
E68568 (Guide NKCR, NKCR7)

CE Marked (per EU Low Voltage Directive
2006/95/EC and RoHS Directive
2011/65/EU)



UL File #: E236197 (Guide NLDX, NLDX7)
E68568 (Guide NKCR, NKCR7)

CE Marked (per EU Low Voltage Directive
2006/95/EC and RoHS Directive
2011/65/EU)



UL File #: E68568 (Guide NKCR, NKCR7)

CE Marked (per EU Low Voltage Directive
2006/95/EC and RoHS Directive
2011/65/EU)



UL File #: E68568 (Guide NKCR, NKCR7)

CE Marked (per EU Low Voltage Directive
2006/95/EC and RoHS Directive
2011/65/EU)



UL File #: E187641 (Guide NLRV, NLRV7),
E312106 (Guide NKJH, NKJH7)

CE Marked (per EU Low Voltage Directive
2006/95/EC and RoHS Directive
2011/65/EU)



CE Marked (per EU Low Voltage Directive
2006/95/EC and RoHS Directive
2011/65/EU)



UL Listed
CSA Certified



Visit www.c3controls.com to download product certifications.

DIMENSIONS

Visit www.c3controls.com to download dimension drawings.

