

DIRECT-ON-LINE (DOL) STARTERS

(MOTOR PROTECTION CIRCUIT BREAKER + CONTACTOR)

series
630

SERIES 630 PRODUCT PROFILE

The c3controls **Series 630 Direct-On-Line (DOL) Starters** are assemblies of a Series 330 Motor Protection Circuit Breaker and a Series 300 Contactor. These assemblies are designed for controlling and protecting single and three phase motors and are ideal for use in multi-motor installations where panel space is a premium and device modularity is required to satisfy virtually any application requirement.

DELIVERING SUPERIOR PRODUCT QUALITY AND MANUFACTURING EXCELLENCE

✓ Proven	Our Series 630 DOL Starters are UL Listed and CE marked, meeting global standards requirements. 
✓ Modular Design	The modular design allows Series 300 and Series 330 to be mixed-and-matched in an assembled starter for any combination of a FLC and desired electrical life.
✓ Circuit Isolation	The "ON/OFF" manual operator enables individual motor circuits to be easily isolated without having to disconnect all of the circuits in a control panel.
✓ Type 2 Coordination	Designed for optimum performance in multi-motor installations, and can achieve Type 2 coordination in circuits capable of delivering up to 50kA at 460V.
✓ Wide Variety of Accessories	Including standard auxiliary contacts, trip indicating auxiliary contacts, shunt and undervoltage release modules, external operating handle, and many wiring accessories such as commoning links and feeder terminals for easy distribution of power to multiple motor protection circuit breakers.
✓ Easy to Install	35mm DIN rail mounting for fast and easy installation and removal, or panel mounting with mounting feet for more secure installation in high shock and vibration applications.
✓ Visible Markings	High visibility labels and markings; dual IEC and NEMA terminal markings for ease of wiring anywhere in the world.
✓ Space Savings	Control panel sizes can be reduced because the short circuit protection provided by the Series 330 enables individual motor branch circuit fuses or circuit breakers and overload relays to be eliminated.
✓ 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 330 Motor Protection Circuit Breaker and Series 300 Contactor provides the convenience of a single catalog number and shorter control panel bill of material.

Self-Protected

- Listed as a UL 60947-4-1A Type E self-protected combination Manual Motor Controller for circuits capable of delivering up to 50kA @ 460V.

High Fault SCCR

- High fault short circuit current rating of 50kA @ 480V provides safety and reliability in high fault applications.

Integrated Auxiliary Contacts

- Integral right side mounted 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 enables overload relay to be set to exact FLA of motor. Provides phase protection for the motor against overload currents.

Snap-On Accessories

- Snap-on accessories are easily installed without the use of tools, lowering assembly and installation costs.

*See c3controls Terms & Conditions



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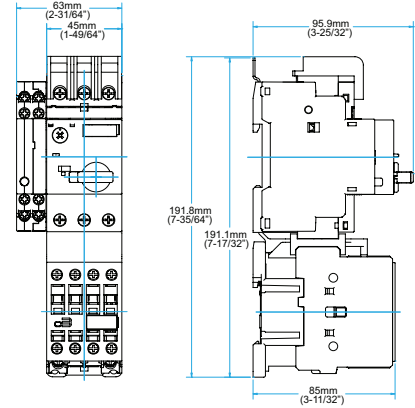
SPECIFICATIONS

STARTER CURRENT RATING CODE		S09	S12	S18	S25	S32	S40
	UNITS						
ELECTRICAL GENERAL							
Rated Operating Frequency	Hz	50/60					
Rated Control Frequencies	Hz	AC: 50Hz, 60Hz, 50/60Hz and DC					
ELECTRICAL UL/CSA APPLICATIONS							
Rated Operating Voltage, Ue	VAC	600					
Standard Short Circuit Current @ 460V AC	kA	50					
Max. Fuse or Circuit Breaker Size	A	450					
High Fault Short Circuit Current @ 600V AC	kA	25					
Max. Fuse or Circuit Breaker Size	A	450					
ELECTRICAL IEC APPLICATIONS							
Rated Insulation Voltage, Ui	V	690					
Rated Impulse Voltage, Uimp	kV	6					
Rated Operating Voltage, Ue	VAC	690					
COIL CHARACTERISTICS							
Rated Insulation Voltage, Ui	V	1,000					
Operating Limits		80 ~ 110% of Rated Coil Voltage					
ENVIRONMENTAL							
Ambient Operating Temperature	°C / °F	-20 to +55 / -4 to +131					
Ambient Storage Temperature	°C / °F	-50 to +80 / -58 to +176					
Altitude	m / ft.	2,000 / 6,562					
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 .							

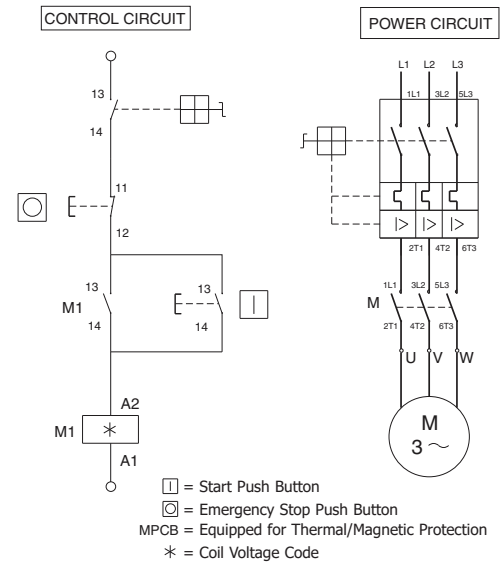
For complete ratings and detailed specifications refer to www.c3controls.com.

DIMENSIONS

Type E Construction



CIRCUIT DIAGRAMS



PROVEN

Conformity to Standards:

MOTOR PROTECTION CIRCUIT BREAKERS

UL 508, 60947-4-1A

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

CONTACTORS

UL 508, 60947-4-1A

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

Certifications:

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)

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)



Visit c3controls.com to download product certifications.



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