ENCLOSED DIRECT-ON-LINE (DOL) STARTERS
(CONTACTOR + OVERLOAD RELAY)

series E620

SERIES E620
PRODUCT PROFILE

c3controls **Series E620 Enclosed Direct-On-Line (DOL) Starters** are assembled from our Series 300 Contactor, Series 320 Overload Relay, and 22mm IEC pilot devices, all with the protection of our durable Polycarbonate enclosure. To save you time and reduce installation costs, our Series E620 are factory assembled and wired, with the option of no pre-wiring.

DELIVERING SUPERIOR PRODUCT QUALITY AND MANUFACTURING EXCELLENCE

✓ **Proven**	Our Series E620 Enclosed DOL Starters are UL Listed and CE marked meeting global standards requirements. $c\,UL\,us$ CE
✓ **Compact Size**	Five (5) frame sizes for devices rated from 9A to 65A. Starters 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.
✓ **Simple Customization**	Our Series E620 Enclosed DOL Starters come with various pilot device and wiring options for appropriate operator interface.
✓ **Polycarbonate Enclosures**	Available in two sizes, our polycarbonate enclosures come with a lift-off cover, and are rated Type 1, 4/4X, and IP66 for the most demanding applications—including wash-downs and corrosive environments.
✓ **Visible Markings**	High visibility labels and markings; dual IEC and NEMA terminal markings for ease of wiring anywhere in the world.
✓ **Lower Cost**	Snap-on front mounted and side mounted auxiliary contacts install without the use of tools for lower installed costs.
✓ **Environmentally Secure**	With 4/4X and IP65, our E620 line is built to last and withstand dust, corrosion, ice and rain.
✓ **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.
✓ **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

UNIQUE PRODUCT LINE FEATURES

Factory Assembled and Wired
- Factory assembled and wired starters and pilot devices provide the convenience of a single catalog number and a 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 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 standard on all c3controls Series 320-B2 to 320-B5 overload relays, allows for easier installation, testing, and troubleshooting.
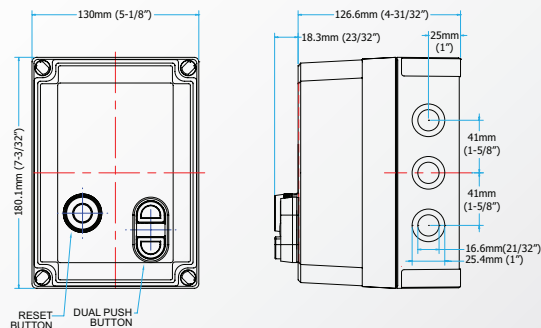
ENCLOSED DIRECT-ON-LINE (DOL) STARTERS
(CONTACTOR + OVERLOAD RELAY)

SPECIFICATIONS

STARTER CURRENT RATING	UNITS	9A	12A	18A	25A	32A	40A	50A	65A	80A
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, Ue	VAC				600					
Standard Short Circuit Current @ 600V AC	kA			5					10	
Max. Fuse Size - varies by current adj. range of overload relay	A	30	30	60	60	60	60	100	125	150
High Fault Short Circuit Current @ 600V AC	kA				100					
Max. Fuse Size (Class J) - varies by current adj. range of overload relay	A	25	25	40	40	50	60	90	100	125
ELECTRICAL IEC APPLICATIONS										
Rated Insulation Voltage, Ui	V				1,000					
Rated Impulse Voltage, Uimp	kV			6					8	
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			-25 to +55 / -13 to +131						
Ambient Storage Temperature	°C / °F			-40 to +70 / -104 to +158						
Altitude	m / ft.			2,000 / 6,528						
Environmental Protection Ratings										
Main Terminals (with conductors connected)				IP20						
Coil Terminals				IP20						
Auxiliary Contact Terminals				IP20						
Enclosure: Codes F, G				Type 1, 4/4X and IP66						
Pilot Devices				Type 1, 2, 3, 3R, 4/4X, 12, 13 and IP65						
CONSTRUCTION - GENERAL										
Number of Poles				3						
Pollution Degree				3						
Trip Class				10						
MATERIALS										
Enclosure				Polycarbonate						

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

Enclosure Type "F" (shown with Contactor, Overload Relay, Reset Push Button and Dual Push Button)

130mm (5-1/8") 126.6mm (4-31/32") 18.3mm (23/32") 25mm (1") 180.1mm (7-3/32") 41mm (1-5/8") 41mm (1-5/8") 16.6mm(21/32") 25.4mm (1")

RESET BUTTON   DUAL PUSH BUTTON

Enclosure Type "G" (shown with Contactor, Overload Relay, Reset Push Button, Pilot Light and 2 Push Buttons)

180mm (7-3/32") 176.6mm (6-15/16") 22mm IEC UNIBODY NON-RELAMPABLE 34mm (1-11/32") 23.9mm (15/16") 39.9mm (1-9/16") ø20.8mm (ø13/16") 35mm (1-3/8") 53mm (2-3/32") 255mm (10-1/32") RUN START STOP ø50.8mm (ø2") ø32.8 (ø1-9/32") 23.6mm (15/16")

RESET BUTTON   FLUSH GREEN PUSH BUTTON   EXTENDED RED PUSH BUTTON
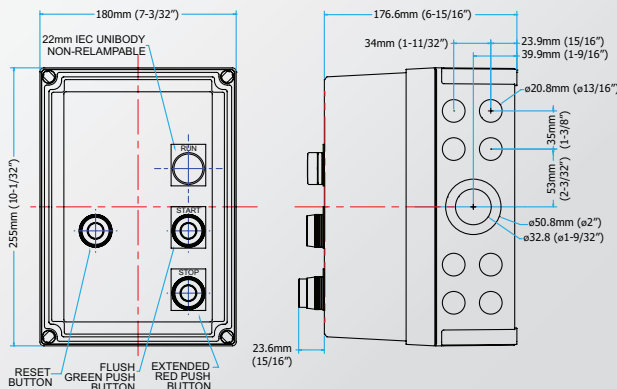
PROVEN

Conformity to Standards:

CONTACTORS
UL 508, 60947-4-1A

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

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

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 #: E68568 (Guide NKCR, NKCR7)

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

UL Listed
CSA Certified

Visit c3controls.com to download product certifications.