

ENCLOSED MOTOR PROTECTION CIRCUIT BREAKER & CONTACTOR ASSEMBLIES



c3controls' Series E630 Enclosed Direct-On-Line (DOL) Starters come with all the features and benefits of our Series 330 Motor Protection Circuit Breaker, Series 300 Contactor, and 22mm IEC pilot devices with the added protection of our Polycarbonate enclosures rated Type 4X and IP65. Our compact components and enclosures save space in your control panel, and come pre-assembled and wired to reduce your installation time and costs.

c3controls' Series E630 is also available in Type E.

Section 12



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PROVEN



Conformity to Standards:

MOTOR PROTECTION CIRCUIT BREAKERS

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

CONTACTORS

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

ENCLOSURES

UL 50
CSA C22.2 No. 94
IEC 60529

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)

UL Listed

CSA Certified

Visit www.c3controls.com to download product certifications.

ENCLOSED MPCB & CONTACTOR ASSEMBLIES

c3controls offers a comprehensive line of Motor Control products designed and manufactured to meet the needs of the machine builder. We promise durable products at a price that gives you an edge. Check out all the features of our Series E630 Enclosed Motor Protection Circuit Breaker and Contactor Assemblies below!

DELIVERING SUPERIOR PRODUCT QUALITY AND MANUFACTURING EXCELLENCE

✓ Proven	Our Series E630 Enclosed DOL Starters are UL Listed and CE marked meeting global standards requirements.	
✓ Compact	Reduced panel area for lower installed costs—Three (3) contactor frame sizes directly interchangeable with other manufacturers.	
✓ Simple Customization	Our Series E630 Enclosed DOL Starters are available 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.	
✓ Reliable	Contactor provides repeated ON/OFF switching for the motor, and the motor protection circuit breaker includes both a Class 10 thermal and magnetic trip elements for overload and short circuit protection of the motor and motor branch circuit conductors.	
✓ Environmentally Secure	With 4/4X and IP65, our Series E630 line is built to last and withstand dust, corrosion, ice and rain.	
✓ 36-Month Warranty*	Every product is backed by our 36-Month Warranty—giving you confidence in the quality, reliability, and performance of components designed for 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

“*c3controls’ products uphold our commitment to provide quality solutions to our customers while keeping our costs under control.*”

Len Frid, Electrical Engineer • **Advanced Poly-Packaging, Inc.**

Type G Enclosure
(255mm x 180mm x 177mm)Type H Enclosure
(378mm x 188mm x 181mm)**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 shorter control panel bill of material.

SELF-PROTECTED

Listed as a UL 60947-4-1 Type E Self-protected Combination Motor Controller for circuits capable of delivering up to 50kA @ 480V.

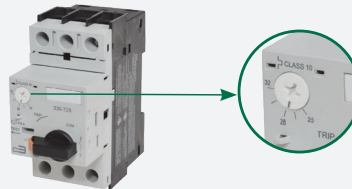
HIGH FAULT SCCR

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

MULTI-FUNCTION DEVICE**ARTICLE 430 PART VII - NFPA 70**

	To Supply	NEC Part
Motor disconnecting means		Part IX
Motor branch-circuit, short circuit, and ground-fault protection		Part IV
Motor circuit conductor		Part II
Motor controller		Part VII
Motor control circuits		Part VI
Motor overload protection		Part III
Motor		Part I

Our Series 330 MPCBs are certified as Manual Motor Controllers Suitable as Motor Disconnects, can be used in Group Motor Installations, and can be used to manually control individual motors and protect them against overload and short circuit currents.

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.

FIND IT FAST

Enclosed MPCB & Contactor
Assemblies



- Certifications
- Specifications
- Dimension Drawings
- Installation Instructions
- Easy to Buy

www.c3controls.com

Motor Control Device Solutions

c3controls motor control devices are the perfect solution for manufacturers who want proper motor control and superior motor protection without having to overpay or compromise on quality. In fact, we engineer so much performance and flexibility into our products, we can deliver a remarkably better value than our competitors.

c3controls
products deliver
like no other.



Seamless Compatibility

Contactors, overload relays and motor protection circuit breakers are designed by c3controls to work together, with common connections and accessories, resulting in a high functioning compact starter.

LEADING THE INDUSTRY
with our compact miniature 10HP
contactors and control relays.
One frame size (AC or DC)—28%
reduction in panel area.

Compact

The small size of c3controls motor control devices, plus features like common accessories, enable assembly into smaller control panels for lower installed costs.

Reliable Protection

Contactors provide the repeated on/off switching for the motor and are designed for motor, actuator, solenoid, and other power switching applications. Overload relays provide Trip Class 10 protection against overload and phase-loss conditions, and have ambient temperature compensation for motor protection in high temperature environments.

Ensures the protection of
equipment and user.

Motor protection circuit breakers provide overload, phase-loss and short circuit protection, can be used by themselves as manual motor controllers or with contactors in group motor installations, and can achieve Type 2 coordination for optimum performance.

Type E self-protected combination manual motor controllers provide disconnecting means, branch circuit protection, motor control and motor overload protection all in a single device.



Proven

Our motor control devices are UL Listed and CE marked, meeting global standards requirements for use anywhere in the world.

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			

Our motor control products align with Article 430 Part VII, Motor Controller, of the NFPA 70, the National Electrical Code.

IT'S EASY TO BUILD YOUR OWN ENCLOSED DOL STARTER

Simply pick the code number from each of the sections below and combine them to build your part number.

Enclosed Direct-On-Line (DOL) Starters

E630 - I II III IV V VI VII VIII IX X XI

Example: To build one of our most popular Enclosed DOL Starters, the part number would be **E630 + II + III + IV + V + VI + VII + VIII + IX + X + XI** or **E630-GD10-10-10-GGRY-02G-W3**

**I. ENCLOSED STARTER TYPE**

CODE	DESCRIPTION	LIST
E630	Enclosed Series 630 DOL Starter: Series 330 MPCB + Series 300 Contactor	\$198.00

II. NON-REVERSING CONTACTOR (3 NORMALLY OPEN POLES)

CODE	MAX. I _e (A)		RATINGS FOR SWITCHING AC MOTORS - AC-2, AC-3										CONTACTOR	LIST
			3 PHASE kW (50Hz)				1 PHASE HP (60Hz)		3 PHASE HP (60Hz)				CAT. NO.	
	AC-3	AC-1	230V	400/415V	500V	690V	115V	230V	200V	230V	460V	575V	PREFIX	
G	9	25	2.2	4	5.5	5.5	1/2	1-1/2	3	3	5	7-1/2	300-S09N30	\$ 53.00
H	12	25	3	5.5	7.5	7.5	3/4	2	3	3	7-1/2	10	300-S12N30	\$ 79.00
J	18	32	4	7.5	10	10	1	3	5	5	10	15	300-S18N30	\$ 87.00
K	25	45	7.5	11	15	15	2	3	7-1/2	7-1/2	15	15	300-S25N30	\$ 99.00
L	32	60	9	15	18.5	18.5	3	5	10	10	20	25	300-S32N30	\$130.00
M	40	60	11	18.5	25	30	3	5	10	15	30	25	300-S40N30	\$178.00

III. CONTACTOR COIL VOLTAGE CODE**AC COIL VOLTAGE CODES**

VOLTAGE	12	24	48	110 / 120	208	220	230	240	277	400	400 ~ 415	480	500	550	600
50Hz	—	—	—	D	—	—	—	—	—	—	R	—	T	U	—
60Hz	—	—	—	D	L	—	—	F	P	—	—	R	—	—	T
50/60Hz	XB	XC	XJ	—	—	XAJ	XN	—	—	XAM	—	—	—	—	—

DC COIL VOLTAGE CODES

VOLTAGE	12	24	125	250	LIST
-S09 to -S25	ZB	ZC	ZQ	ZP	\$ 35.00
-S32 to -S40	ZB	ZC	ZQ	ZP	\$ 78.00

IV. CONTACTOR AUXILIARY CONTACT CONFIGURATION

CODE	DESCRIPTION	LIST
00	Without Auxiliary Contacts (Contactor Codes L and M)	—
10	1 Normally Open*	\$ 18.00
01	1 Normally Closed*	\$ 18.00

*NOTE: Integral right side mounted on Contactor Codes G to K, front mounted on Contactor Codes L and M.

**SEE OPPOSITE PAGE FOR PART
BUILDER CHARTS VI - XI**

V. MOTOR PROTECTION CIRCUIT BREAKER WITH THERMAL AND MAGNETIC TRIP ELEMENTS

CODE	RATED OPER. CURRENT (A)	ADJUSTMENT RANGE (A)	MAGNETIC TRIP CURRENT (A)	ULTIMATE INTERRUPTING CURRENT (I _{cu}) (kA)		RATINGS FOR SWITCHING AC MOTORS*								MOTOR PROTECTION CIRCUIT BREAKER CAT. NO.	LIST
						3 PHASE kW (50Hz)				3 PHASE HP (60Hz)					
				400V	480V	230V	400/415V	500V	690V	200V	230V	460V	575V		
01	0.16	0.10 ~ 0.16	2.1	100	100	—	—	—	0.06	—	—	—	—	330-T25S2C16	\$122.00
02	0.25	0.16 ~ 0.25	3.3	100	100	—	0.06	0.06	0.12	—	—	—	—	330-T25S2C25	\$122.00
03	0.40	0.25 ~ 0.40	5.2	100	100	—	0.09	0.12	0.18	—	—	—	—	330-T25S2C40	\$132.00
04	0.63	0.40 ~ 0.63	8.2	100	100	0.06	0.12	0.25	0.25	—	—	—	1/4	330-T25S2C63	\$136.00
05	1.0	0.63 ~ 1.0	13	100	100	0.12	0.25	0.37	0.55	—	—	1/2	1/2	330-T25S2D10	\$139.00
06	1.6	1.0 ~ 1.6	21	100	100	0.18	0.55	0.75	1.1	1/4	1/3	3/4	1	330-T25S2D16	\$139.00
07	2.5	1.6 ~ 2.5	33	100	100	0.37	0.75	1.1	1.5	1/2	1/2	1-1/2	1-1/2	330-T25S2D25	\$139.00
08	4.0	2.5 ~ 4.0	52	100	100	0.75	1.5	2.2	3	3/4	1	2	3	330-T25S2D40	\$139.00
09	6.3	4.0 ~ 6.3	82	100	100	1.1	2.2	3	4	1-1/2	1-1/2	3	5	330-T25S2D63	\$148.00
10	10	6.3 ~ 10	130	100	42	2.2	4	4	7.5	3	3	7-1/2	10	330-T25S2U10	\$154.00
11	16	10 ~ 16	208	50	10	3.7	7.5	9	12.5	5	5	10	15	330-T25S2U16	\$170.00
12	20	16 ~ 20	260	50	10	3.7	9	12.5	15	5	7-1/2	15	20	330-T25S2U20	\$185.00
13	25	20 ~ 25	325	50	10	5.5	12.5	15	22	7-1/2	7-1/2	15	20	330-T25S2U25	\$218.00
14	32	25 ~ 32	416	50	10	7.5	15	18.5	30	10	10	20	25	330-T25S2U32	\$218.00

*NOTE: HP and kW ratings shown are for reference. The final selection of the Motor Protection Circuit Breaker must be based on the actual motor full load current.

ENCLOSED DOL STARTER PART BUILDER (CONT.)**VI. MOTOR PROTECTION CIRCUIT BREAKER ACCESSORIES**

	FRONT MOUNT AUX. 1 NO + 1 NC	SIDE MOUNT AUX. 1 NO + 1 NC	SIDE MOUNT AUX. 2 NO	TRIP IND. AUX. 2 NO + 2 NC	LINE SIDE TERM. BARRIER	
CODE	330-FA11S25	330-SA11S25	330-SA20S25	330-STA22S25	330-LSTB25	LIST
00	—	—	—	—	—	—
01	1	—	—	—	—	\$21.00
02	—	1	—	—	—	\$21.00
03	—	—	1	—	—	\$21.00
04	—	—	—	1	—	\$57.00
05	—	—	—	—	1	\$54.00
06	1	1	—	—	—	\$42.00
07	1	1	—	1	—	\$99.00
08	1	1	—	—	1	\$96.00
09	1	—	1	—	—	\$42.00
10	1	—	1	1	—	\$99.00
11	1	—	1	—	1	\$96.00
12	1	—	—	1	—	\$78.00
13	1	—	—	—	1	\$75.00
14	—	1	—	1	—	\$78.00
15	—	1	—	—	1	\$75.00
16	—	—	1	1	—	\$78.00
17	—	—	1	—	1	\$75.00
18	—	—	—	1	1	\$111.00
19	1	—	—	1	1	\$132.00
20	—	1	—	1	1	\$132.00
21	—	—	1	1	1	\$132.00
22	1	1	—	1	1	\$153.00
23	1	—	1	1	1	\$153.00

VII. POLYCARBONATE ENCLOSURE DIMENSION (TYPE 4X & IP66)

CODE	FOR CONTACTOR CODES	DIMENSION REF. / H x W x D	LIST
G	AC and DC: G, H, J, K	1 / 255mm x 180mm x 177mm	\$270.00
H	AC and DC: G, H, J, K, L, M	2 / 378mm x 188mm x 181mm	\$648.00

VIII. MPCB EXTERNAL OPERATING HANDLE OPTIONS

CODE	DESCRIPTION	OPERATOR COLOR	BEZEL COLOR	LIST
(Blank)	None	—	—	—
GRY	Round (Type 1, 2, 3, 3R, 4/4X, 12, 13 and IP65)	Red	Yellow	\$109.50
GBG	Round (Type 1, 2, 3, 3R, 4/4X, 12, 13 and IP65)	Black	Grey	\$109.50

IX. 22MM IEC PILOT DEVICE OPTIONS

CODE	DESCRIPTION	22MM CAT. NO.	LEGEND PLATE†	LIST
00	None	—	—	—
01	Momentary, Non-Illuminated Push Buttons: Flush Green with 1NO Contact Block Extended Red with 1NC Contact Block	W22PB-FG-10 W22PB-ER-01	START STOP	\$44.20
02	Momentary, Non-Illuminated Push Buttons with Pilot Light: Flush Green with 1NO Contact Block Extended Red with 1NC Contact Block Unibody, Non-Relampable*	W22PB-FG-10 W22PB-ER-01 Refer to Chart X	START STOP Refer to Chart X	\$63.20
03	Maintained, Non-Illuminated Selector Switch: 2-Position with 1NO Contact Block	W22S2-HW-10	OFF, ON	\$27.20
04	Maintained, Non-Illuminated Selector Switch with Pilot Light: 2-Position with 1NO Contact Block Unibody, Non-Relampable*	W22S2-HW-10 Refer to Chart X	OFF, ON Refer to Chart X	\$46.20
05	Maintained, Non-Illuminated Selector Switch: 3-Position with 2NO Contact Blocks	W22S3-HW-10/10	H, O, A	\$39.30
06	Maintained, Non-Illuminated Selector Switch with Pilot Light: 3-Position with 2NO Contact Blocks Unibody, Non-Relampable*	W22S3-HW-10/10 Refer to Chart X	H, O, A Refer to Chart X	\$58.30
07	Pilot Light: Unibody, Non-Relampable*	Refer to Chart X	Refer to Chart X	\$19.00
08	Momentary, Non-Illuminated Dual Push Buttons: Extended Red (Bottom) with 1NC Contact Block and Flush Green (Top) with 1NO Contact Block	W22DPB-ERFG-01/10	—	\$40.20
09	Momentary, Non-Illuminated Dual Push Buttons with Pilot Light: Extended Red (Bottom) with 1NC Contact Block and Flush Green (Top) with 1NO Contact Block Unibody, Non-Relampable*	W22DPB-ERFG-01/10 Refer to Chart X	— Refer to Chart X	\$59.20

NOTE: * Pilot lights only available if Contactor Coil Voltage Code (III) XC, D, XAJ, XN, F, ZC or ZQ is selected. Pilot light voltage will be 24V AC/DC, 110-130V AC/DC, or 220-240V AC to match contactor coil voltage.
† The legend plate face color is black with white letters.

X. 22MM IEC UNIBODY PILOT LIGHT OPTIONS

CODE	DESCRIPTION	LED/LENS COLOR	CAT. NO.	LEGEND PLATE†
(Blank)	None	—	—	—
A	Non-Relampable	Amber	W22UNR-***LA-WNLA	FAULT
G	Non-Relampable	Green	W22UNR-***LG-WNLG	RUN
R	Non-Relampable	Red	W22UNR-***LR-WNLR	RUN

NOTE: † The legend plate face color is black with white letters.

*** Represents the Unibody pilot light voltage code. Voltage code will be based on the contactor coil voltage.

XI. WIRING OPTIONS

CODE	DESCRIPTION	FOR PILOT DEVICE CODES	FOR PILOT LIGHT CODES	WIRING DIAGRAM REF.‡	LIST
WW	Without Wiring	ALL	ALL	—	—
W2	Two Wire Control Wiring†	03, 04 04 05, 06 06	(Blank), G*, R* A (Blank), G*, R* A	1a 1b 2a 2b	\$18.00
W3	Three Wire Control Wiring*†‡	01, 02, 08, 09 02, 09	(Blank), G, R A	3a 3b	\$18.00

NOTE: * Contactor Auxiliary Contact Configuration Code 10 must be selected for this option.

† Motor protection circuit breaker front mounted auxiliary 330-FA11S25 must be used.

‡ Use W3 for Remote Wiring, refer to the installation instructions for details.

‡ For wiring diagrams go to www.c3controls.com.

DISCOUNT
SCHEDULE **H****SEE TOP OF PAGE FOR PART
BUILDER CHARTS X - XI**

SERIES E630 AND SERIES E630 TYPE E ENCLOSED DIRECT-ON-LINE (DOL) STARTERS

c3controls Series E630 Enclosed Direct-On-Line (DOL) Starters are assemblies of a Polycarbonate Enclosure, Series 330 Motor Protection Circuit Breaker, Series 300 Contactor and Series 22mm IEC pilot devices. Our pilot devices and enclosures are rated for Type 4X and IP65. The motor protection circuit breaker includes both a class 10 thermal and magnetic trip elements for overload and short circuit protection of the motor and motor branch circuit components including the conductors. The contactor provides the repeated On/Off switching for the motor. A variety of pilot devices are available, including non-illuminated momentary push buttons, non-illuminated momentary dual push buttons (flush green and extended red), maintained selector switches (2 and 3 position), auxiliary contacts (NO and NC) and pilot lights (red, green and amber) for operation and indication. These assemblies are designed for controlling and protecting single and three phase motors. To save time and reduce installation cost, c3controls Series E630 and Type E are factory assembled and wired. We also offer the option of no pre-wiring.

Product features include:

- Enclosed starters provide the convenience of a single catalog number.
- Our compact, polycarbonate enclosures come with a lift-off cover and are rated Type 1, 4/4X and IP66, making them suitable for the most demanding applications – including wash-downs and corrosive environments.
- Pilot devices installed and a variety of wiring options are available.
- Red/Yellow or Black/Grey Operating Handles that can be padlocked in the “OFF” position with up to three padlocks for extra safety and the security needed during maintenance activities.
- Universal ratings and markings: A, kW, and HP ratings as well as applicable 3rd party certification markings.
- Unobstructed access to the two contactor coil terminals on the load-side of the starter makes control circuit wiring simple.
- Provides the same great features and benefits as our Enclosures, Series 330 Motor Protection Circuit Breakers, Series 300 Contactors and Series 22mm IEC pilot devices.
- Compact starter size reduces enclosure size resulting in space savings and lower installed costs.
- Single phase sensitivity to protect motors against damaging phase loss conditions.
- Series E630 provides Type 2 coordination in circuits capable of delivering up to 50kA at 460V.
- Trip indicating auxiliary contact can be used to identify the trip cause, either overload (1 NO and 1 NC) or short circuit (1 NO and 1 NC) – helping you determine the type of service/maintenance that may be required.
- Available as Enclosed Type E Starter.



UNIQUE PRODUCT FEATURES



SPACE SAVINGS

Overall space requirement 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.

LABOR SAVINGS

Enclosed starters are factory assembled and wired, reducing installation time.

COST SAVINGS

Smaller size enclosures, reduced wiring, and factory wired pilot devices all combine to provide a lower cost enclosed starter with superior performance in normal operating conditions as well as in overload or short circuit conditions.

DISCOVER TYPE E

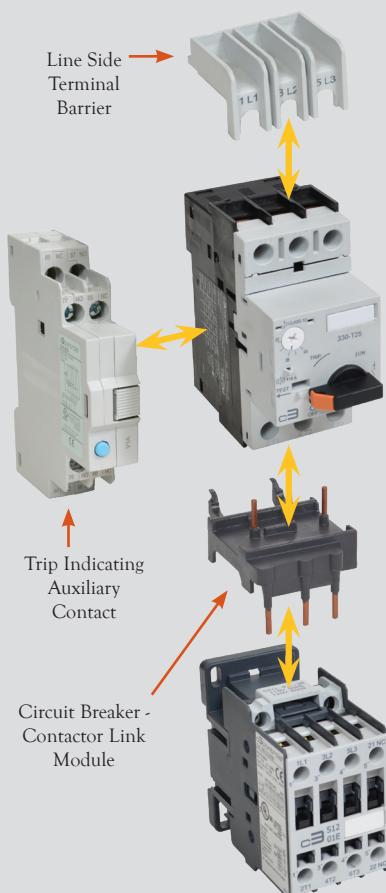
UL 60947-4-1 Self-protected combination motor controller integrates protective functions into a single unit suitable for use in circuits delivering up to 50kA at 480V.



Type E devices provide motor disconnecting means, branch short circuit and ground fault protection, motor control and motor overload protection, reducing size and eliminating upstream fuses or circuit breakers for a motor circuit.

SERIES E630 TYPE E ENCLOSED DIRECT-ON-LINE (DOL) STARTERS

TYPE E FEATURES



The trip indicating auxiliary contact accessory distinguishes between overload and short circuit fault conditions. This enhances functionality, minimizes downtime and reduces cost after a fault because the fault can be easily identified.

Trip indicating auxiliary contact and line side terminal barrier accessories are required to construct a UL 60947-4-1 combination motor controller.

SELECTING THE COMPONENTS NEEDED TO CONFIGURE A TYPE E OR TYPE F COMBINATION MOTOR CONTROLLER

c3controls makes it easy to identify and select the components needed to configure our Series E630 Enclosed Direct-On-Line (DOL) Starters as a listed UL 60947-4-1 combination motor controller.

The Type E and Type F configurator charts on pages 10-17 of this catalog are broken down by motor voltage, therefore you will need to know your Motor Voltage and Motor Size prior to configuring a Series E630 Type E or Type F Enclosed Direct-On-Line (DOL) Starter.

1. Select your appropriate Motor Voltage: 200V, 240V, 480Y/277V or 600Y/347V. Motor Voltages are located at the top of pages 10-17 for easy reference.
2. Follow the step-by-step configurator by simply choosing a code from each of the sections and create the exact product match for your needs. If a code is pre-filled, that means there is no option for that part, but you MUST include that code in your part builder number. Don't forget to include hyphens where indicated.
3. The motor protection circuit breaker options are broken down by type of contactor and motor size. Select the appropriate motor protection circuit breaker by choosing from the options listed below the Motor Size.
4. Type E self-protected combination motor controllers as fully assembled Direct-On-Line (DOL) Starters are available in up to 10A relay ranges. Type F combination motor controllers as fully assembled Direct-On-Line (DOL) Starters are available in up to 32A.

Our complete line of Series 630 Type E and Type F and Series E630 Type E and Type F Enclosed Direct-On-Line (DOL) Starters can be found on our website at www.c3controls.com, and have the same easy step-by-step configurator to help you create the exact product match for your needs.

IT'S EASY TO BUILD YOUR OWN ENCLOSED DOL STARTER

Simply pick the code number from each of the sections below and combine them to build your part number.

Enclosed Type E Direct-On-Line (DOL) Starters (FOR MOTOR VOLTAGE 200V)

E630 - I II III IV V VI VII VIII IX X XI

Example: To build one of our most popular Enclosed DOL Starters, the part number would be **E630 + II + III + IV + V + VI + VII + VIII + IX + X + XI** or **E630-GD10-10-23-HGRY-06R-W2**

I. ENCLOSED STARTER TYPE

CODE	DESCRIPTION	LIST
E630	Enclosed Series 630 Type E DOL Starter: Series 330 MPCB + Series 300 Contactor	\$198.00

II. NON-REVERSING CONTACTOR (3 NORMALLY OPEN POLES)

	MAX. Ie (A)	MOTOR SIZE @ 200V 3 PHASE									CONTACTOR	
CODE	AC-3	< 1/4HP	1/3HP	1/2HP	1HP	1-1/2HP	3HP	5HP	7-1/2HP	10HP	CAT. NO. PREFIX	LIST
G	9	✓	✓	✓	✓	✓	✓		—	—	300-S09N30	\$ 53.00
J	18	—	—	—	—	—	—	✓	—	—	300-S18N30	\$ 87.00
K	25	—	—	—	—	—	—	✓		—	300-S25N30	\$ 99.00
L	32	—	—	—	—	—	—	—	✓	—	300-S32N30	\$130.00
M	40	—	—	—	—	—	—	—	—	✓	300-S40N30	\$178.00



III. CONTACTOR COIL VOLTAGE CODE

AC COIL VOLTAGE CODES

VOLTAGE	12	24	48	110 / 120	208	220	230	240	277	400	400 ~ 415	480	500	550	600
50Hz	—	—	—	D	—	—	—	—	—	—	R	—	T	U	—
60Hz	—	—	—	D	L	—	—	F	P	—	—	R	—	—	T
50/60Hz	XB	XC	XJ	—	—	XAJ	XN	—	—	XAM	—	—	—	—	—

DC COIL VOLTAGE CODES

VOLTAGE	12	24	125	250	LIST
-S09 to -S25	ZB	ZC	ZQ	ZP	\$ 35.00
-S32 to -S40	ZB	ZC	ZQ	ZP	\$ 78.00

IV. CONTACTOR AUXILIARY CONTACT CONFIGURATION

CODE	DESCRIPTION	LIST
00	Without Auxiliary Contacts (Contactor Codes L & M)	—
10	1 Normally Open*	\$ 18.00
01	1 Normally Closed*	\$ 18.00

*NOTE: Integral right side mounted on Contactor Codes G, J & K, front mounted on Contactor Codes L & M.

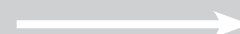
V. MOTOR PROTECTION CIRCUIT BREAKER W/THERMAL AND MAGNETIC TRIP ELEMENTS

CODE	ADJUSTMENT RANGE (A)	MAGNETIC TRIP CURRENT (A)	INTERRUPT CURRENT (Icu) (kA)		MPCB CAT. NO.	LIST
			400V	480V		
FOR CONTACTOR CODE G & MOTOR SIZE <1/4HP						
01	0.10 ~ 0.16	2.1	100	100	330-T25S2C16	\$122.00
02	0.16 ~ 0.25	3.3	100	100	330-T25S2C25	\$122.00
03	0.25 ~ 0.40	5.2	100	100	330-T25S2C40	\$132.00
04	0.40 ~ 0.63	8.2	100	100	330-T25S2C63	\$136.00
05	0.63 ~ 1.0	13	100	100	330-T25S2D10	\$139.00
FOR CONTACTOR CODE G & MOTOR SIZE 1/3HP						
06	1.0 ~ 1.6	21	100	100	330-T25S2D16	\$139.00
FOR CONTACTOR CODE G & MOTOR SIZE 1/2HP						
07	1.6 ~ 2.5	33	100	100	330-T25S2D25	\$139.00
FOR CONTACTOR CODE G & MOTOR SIZE 1HP						
08	2.5 ~ 4.0	52	100	100	330-T25S2D40	\$139.00
FOR CONTACTOR CODE G & MOTOR SIZE 1-1/2HP						
09	4.0 ~ 6.3	82	100	100	330-T25S2D63	\$148.00
FOR CONTACTOR CODE G & MOTOR SIZE 3HP						
10	6.3 ~ 10	130	100	42	330-T25S2U10	\$154.00
FOR CONTACTOR CODE J & MOTOR SIZE 5HP						
11*	10 ~ 16	208	50	10	330-T25S2U16	\$170.00
FOR CONTACTOR CODE K & MOTOR SIZE 5HP						
12*	16 ~ 20	260	50	10	330-T25S2U20	\$185.00
FOR CONTACTOR CODE L & MOTOR SIZE 7-1/2HP						
13*	20 ~ 25	325	50	10	330-T25S2U25	\$218.00
FOR CONTACTOR CODE M & MOTOR SIZE 10HP						
14*	25 ~ 32	416	50	10	330-T25S2U32	\$218.00

*NOTE: Type F combination motor controller configuration only.



**SEE OPPOSITE PAGE
FOR PART BUILDER
CHARTS VI - XI**



ENCLOSED DOL STARTER PART BUILDER (CONT.)

VI. MOTOR PROTECTION CIRCUIT BREAKER ACCESSORIES

	FRONT MOUNT AUX., 1 NO + 1 NC	SIDE MOUNT AUX., 1 NO + 1 NC	SIDE MOUNT AUX., 2 NO	TRIP IND. AUX., 2 NO + 2 NC	LINE SIDE TERM. BARRIER	
CODE	330-FA11S25	330-SA11S25	330-SA20S25	330-STA22S25	330-LSTB25	LIST
18	—	—	—	1	1	\$111.00
19	1	—	—	1	1	\$132.00
20	—	1	—	1	1	\$132.00
21	—	—	1	1	1	\$132.00
22	1	1	—	1	1	\$153.00
23	1	—	1	1	1	\$153.00

VII. POLYCARBONATE ENCLOSURE DIMENSION (TYPE 4X & IP65)

CODE	FOR CONTACTOR CODES	DIMENSION REF. / H x W x D	LIST
G	AC and DC: G, J, K	1 / 255mm x 180mm x 177mm	\$270.00
H	AC and DC: G, J, K, L, M	2 / 378mm x 188mm x 181mm	\$648.00

VIII. MPCB EXTERNAL OPERATING HANDLE OPTIONS

CODE	DESCRIPTION	OPERATOR COLOR	BEZEL COLOR	LIST
(Blank)	None	—	—	—
GRY	Round (Type 1, 2, 3, 3R, 4/4X, 12, 13 and IP65)	Red	Yellow	\$109.50
GBG	Round (Type 1, 2, 3, 3R, 4/4X, 12, 13 and IP65)	Black	Grey	\$109.50

X. 22MM IEC UNIBODY PILOT LIGHT OPTIONS

CODE	DESCRIPTION	LED/LENS COLOR	CAT. NO.	LEGEND PLATE†
(Blank)	None	—	—	—
A	Non-Relampable	Amber	W22UNR-***LA-WNLA	FAULT
G	Non-Relampable	Green	W22UNR-***LG-WNLG	RUN
R	Non-Relampable	Red	W22UNR-***LR-WNLR	RUN

NOTE: † The legend plate face color is black with white letters.

*** Represents the Unibody pilot light voltage code. Voltage code will be based on the contactor coil voltage.

XI. WIRING OPTIONS

CODE	DESCRIPTION	FOR PILOT DEVICE CODES	FOR PILOT LIGHT CODES	WIRING DIAGRAM REF.‡	LIST
WW	Without Wiring	ALL	ALL	—	—
W2	Two Wire Control Wiring†	03, 04	(Blank), G*, R*	1a	\$ 18.00
		04	A	1b	
		05, 06	(Blank), G*, R*	2a	
		06	A	2b	
W3	Three Wire Control Wiring*†‡	01, 02, 08, 09	(Blank), G, R	3a	\$ 18.00
		02, 09	A	3b	

NOTE: * Contactor Auxiliary Contact Configuration Code 10 must be selected for this option.

† Motor protection circuit breaker front mounted auxiliary 330-FA11S25 must be used.

‡ Use W3 for Remote Wiring, refer to the installation instructions for details.

§ For wiring diagrams go to www.c3controls.com.

IX. 22MM IEC PILOT DEVICE OPTIONS

CODE	DESCRIPTION	22MM CAT. NO.	LEGEND PLATE†	LIST
00	None	—	—	—
01	Momentary, Non-Illuminated Push Buttons: Flush Green with 1NO Contact Block Extended Red with 1NC Contact Block	W22PB-FG-10	START	\$ 44.20
		W22PB-ER-01	STOP	
02	Momentary, Non-Illuminated Push Buttons with Pilot Light: Flush Green with 1NO Contact Block Extended Red with 1NC Contact Block Unibody, Non-Relampable*	W22PB-FG-10	START	\$ 63.20
		W22PB-ER-01	STOP	
		Refer to Chart X	Refer to Chart X	
03	Maintained, Non-Illuminated Selector Switch: 2-Position with 1NO Contact Block	W22S2-HW-10	OFF, ON	\$ 27.20
		W22S2-HW-10	OFF, ON	
04	Maintained, Non-Illuminated Selector Switch with Pilot Light: 2-Position with 1NO Contact Block Unibody, Non-Relampable*	W22S2-HW-10	OFF, ON	\$ 46.20
		Refer to Chart X	Refer to Chart X	
05	Maintained, Non-Illuminated Selector Switch: 3-Position with 2NO Contact Blocks	W22S3-HW-10/10	H, O, A	\$ 39.30
06	Maintained, Non-Illuminated Selector Switch with Pilot Light: 3-Position with 2NO Contact Blocks Unibody, Non-Relampable*	W22S3-HW-10/10	H, O, A	\$ 58.30
		Refer to Chart X	Refer to Chart X	
07	Pilot Light: Unibody, Non-Relampable*	Refer to Chart X	Refer to Chart X	\$ 19.00
08	Momentary, Non-Illuminated Dual Push Buttons: Extended Red (Bottom) with 1NC Contact Block and Flush Green (Top) with 1NO Contact Block	W22DPB-ERFG-01/10	—	\$ 40.20
09	Momentary, Non-Illuminated Dual Push Buttons with Pilot Light: Extended Red (Bottom) with 1NC Contact Block and Flush Green (Top) with 1NO Contact Block Unibody, Non-Relampable*	W22DPB-ERFG-01/10	—	\$ 59.20
		Refer to Chart X	Refer to Chart X	

NOTE: * Pilot lights only available if Contactor Coil Voltage Code (III) XC, D, XAJ, XN, F, ZC or ZQ is selected. Pilot light voltage will be 24V AC/DC, 110-130V AC/DC, or 220-240V AC to match contactor coil voltage.

† The legend plate face color is black with white letters.

**SEE TOP OF PAGE FOR PART
BUILDER CHARTS X - XI**

IT'S EASY TO BUILD YOUR OWN ENCLOSED DOL STARTER

Simply pick the code number from each of the sections below and combine them to build your part number.

Enclosed Type E Direct-On-Line (DOL) Starters (FOR MOTOR VOLTAGE 240V)

E630 - - - - - - - -

Example: To build one of our most popular Enclosed DOL Starters, the part number would be **E630 + II + III + IV + V + VI + VII + VIII + IX + X + XI** or **E630-GD10-10-23-HGRY-06R-W2**

I. ENCLOSED STARTER TYPE

CODE	DESCRIPTION	LIST
E630	Enclosed Series 630 Type E DOL Starter: Series 330 MPCB + Series 300 Contactor	\$198.00

II. NON-REVERSING CONTACTOR (3 NORMALLY OPEN POLES)

CODE	MAX. Ie (A)	MOTOR SIZE @ 240V 3 PHASE									CONTACTOR CAT. NO. PREFIX	LIST
		< 1/4HP	1/3HP	1/2HP	1HP	1-1/2HP	3HP	5HP	7-1/2HP	10HP		
G	9	✓	✓	✓	✓	✓	✓	—	—	—	300-S09N30	\$ 53.00
J	18	—	—	—	—	—	—	✓	—	—	300-S18N30	\$ 87.00
K	25	—	—	—	—	—	—	—	✓	—	300-S25N30	\$ 99.00
L	32	—	—	—	—	—	—	—	✓	—	300-S32N30	\$130.00
M	40	—	—	—	—	—	—	—	—	✓	300-S40N30	\$178.00

III. CONTACTOR COIL VOLTAGE CODE**AC COIL VOLTAGE CODES**

VOLTAGE	12	24	48	110 / 120	208	220	230	240	277	400	400 ~ 415	480	500	550	600
50Hz	—	—	—	D	—	—	—	—	—	—	R	—	T	U	—
60Hz	—	—	—	D	L	—	—	F	P	—	—	R	—	—	T
50/60Hz	XB	XC	XJ	—	—	XAJ	XN	—	—	XAM	—	—	—	—	—

DC COIL VOLTAGE CODES

VOLTAGE	12	24	125	250	LIST
-S09 to -S25	ZB	ZC	ZQ	ZP	\$ 35.00
-S32 to -S40	ZB	ZC	ZQ	ZP	\$ 78.00

IV. CONTACTOR AUXILIARY CONTACT CONFIGURATION

CODE	DESCRIPTION	LIST
00	Without Auxiliary Contacts (Contactor Codes L & M)	—
10	1 Normally Open*	\$ 18.00
01	1 Normally Closed*	\$ 18.00

*NOTE: Integral right side mounted on Contactor Codes G, J & K, front mounted on Contactor Codes L & M.

V. MOTOR PROTECTION CIRCUIT BREAKER W/THERMAL AND MAGNETIC TRIP ELEMENTS

CODE	ADJUSTMENT RANGE (A)	MAGNETIC TRIP CURRENT (A)	INTERRUPT CURRENT (Icu) (kA)		MPCB CAT. NO.	LIST
			400V	480V		
FOR CONTACTOR CODE G & MOTOR SIZE <1/4HP						
01	0.10 ~ 0.16	2.1	100	100	330-T25S2C16	\$122.00
02	0.16 ~ 0.25	3.3	100	100	330-T25S2C25	\$122.00
03	0.25 ~ 0.40	5.2	100	100	330-T25S2C40	\$132.00
04	0.40 ~ 0.63	8.2	100	100	330-T25S2C63	\$136.00
05	0.63 ~ 1.0	13	100	100	330-T25S2D10	\$139.00
FOR CONTACTOR CODE G & MOTOR SIZE 1/3HP						
06	1.0 ~ 1.6	21	100	100	330-T25S2D16	\$139.00
FOR CONTACTOR CODE G & MOTOR SIZE 1/2HP						
07	1.6 ~ 2.5	33	100	100	330-T25S2D25	\$139.00
FOR CONTACTOR CODE G & MOTOR SIZE 1HP						
08	2.5 ~ 4.0	52	100	100	330-T25S2D40	\$139.00
FOR CONTACTOR CODE G & MOTOR SIZE 1-1/2HP						
09	4.0 ~ 6.3	82	100	100	330-T25S2D63	\$148.00
FOR CONTACTOR CODE G & MOTOR SIZE 3HP						
10	6.3 ~ 10	130	100	42	330-T25S2U10	\$154.00
FOR CONTACTOR CODE J & MOTOR SIZE 5HP						
11*	10 ~ 16	208	50	10	330-T25S2U16	\$170.00
FOR CONTACTOR CODE K & MOTOR SIZE 7-1/2HP						
12*	16 ~ 20	260	50	10	330-T25S2U20	\$185.00
FOR CONTACTOR CODE L & MOTOR SIZE 7-1/2HP						
13*	20 ~ 25	325	50	10	330-T25S2U25	\$218.00
FOR CONTACTOR CODE M & MOTOR SIZE 10HP						
14*	25 ~ 32	416	50	10	330-T25S2U32	\$218.00

*NOTE: Type F combination motor controller configuration only.



DISCOUNT
SCHEDULE **H**

**SEE OPPOSITE PAGE
FOR PART BUILDER
CHARTS VI - XI**

ENCLOSED DOL STARTER PART BUILDER (CONT.)

VI. MOTOR PROTECTION CIRCUIT BREAKER ACCESSORIES

	FRONT MOUNT AUX., 1 NO + 1 NC	SIDE MOUNT AUX., 1 NO + 1 NC	SIDE MOUNT AUX., 2 NO	TRIP IND. AUX., 2 NO + 2 NC	LINE SIDE TERM. BARRIER	
CODE	330-FA11S25	330-SA11S25	330-SA20S25	330-STA22S25	330-LSTB25	LIST
18	—	—	—	1	1	\$111.00
19	1	—	—	1	1	\$132.00
20	—	1	—	1	1	\$132.00
21	—	—	1	1	1	\$132.00
22	1	1	—	1	1	\$153.00
23	1	—	1	1	1	\$153.00

VII. POLYCARBONATE ENCLOSURE DIMENSION (TYPE 4X & IP65)

CODE	FOR CONTACTOR CODES	DIMENSION REF. / H x W x D	LIST
G	AC and DC: G, J, K	1 / 255mm x 180mm x 177mm	\$270.00
H	AC and DC: G, J, K, L, M	2 / 378mm x 188mm x 181mm	\$648.00

VIII. MPCB EXTERNAL OPERATING HANDLE OPTIONS

CODE	DESCRIPTION	OPERATOR COLOR	BEZEL COLOR	LIST
(Blank)	None	—	—	—
GRY	Round (Type 1, 2, 3, 3R, 4/4X, 12, 13 and IP65)	Red	Yellow	\$109.50
GBG	Round (Type 1, 2, 3, 3R, 4/4X, 12, 13 and IP65)	Black	Grey	\$109.50

X. 22MM IEC UNIBODY PILOT LIGHT OPTIONS

CODE	DESCRIPTION	LED/LENS COLOR	CAT. NO.	LEGEND PLATE†
(Blank)	None	—	—	—
A	Non-Relampable	Amber	W22UNR-***LA-WNLA	FAULT
G	Non-Relampable	Green	W22UNR-***LG-WNLG	RUN
R	Non-Relampable	Red	W22UNR-***LR-WNLR	RUN

NOTE: † The legend plate face color is black with white letters.

*** Represents the Unibody pilot light voltage code. Voltage code will be based on the contactor coil voltage.

XI. WIRING OPTIONS

CODE	DESCRIPTION	FOR PILOT DEVICE CODES	FOR PILOT LIGHT CODES	WIRING DIAGRAM REF.‡	LIST
WW	Without Wiring	ALL	ALL	—	—
W2	Two Wire Control Wiring†	03, 04	(Blank), G*, R*	1a	\$ 18.00
		04	A	1b	
		05, 06	(Blank), G*, R*	2a	
W3	Three Wire Control Wiring*†‡	06	A	2b	\$ 18.00
		01, 02, 08, 09	(Blank), G, R	3a	
		02, 09	A	3b	

NOTE: * Contactor Auxiliary Contact Configuration Code 10 must be selected for this option.

† Motor protection circuit breaker front mounted auxiliary 330-FA11S25 must be used.

‡ Use W3 for Remote Wiring, refer to the installation instructions for details.

§ For wiring diagrams go to www.c3controls.com.

IX. 22MM IEC PILOT DEVICE OPTIONS

CODE	DESCRIPTION	22MM CAT. NO.	LEGEND PLATE†	LIST
00	None	—	—	—
01	Momentary, Non-Illuminated Push Buttons: Flush Green with 1NO Contact Block Extended Red with 1NC Contact Block	W22PB-FG-10	START	\$ 44.20
		W22PB-ER-01	STOP	
02	Momentary, Non-Illuminated Push Buttons with Pilot Light: Flush Green with 1NO Contact Block Extended Red with 1NC Contact Block Unibody, Non-Relampable*	W22PB-FG-10	START	\$ 63.20
		W22PB-ER-01	STOP	
		Refer to Chart X	Refer to Chart X	
03	Maintained, Non-Illuminated Selector Switch: 2-Position with 1NO Contact Block	W22S2-HW-10	OFF, ON	\$ 27.20
04	Maintained, Non-Illuminated Selector Switch with Pilot Light: 2-Position with 1NO Contact Block Unibody, Non-Relampable*	W22S2-HW-10	OFF, ON	\$ 46.20
		Refer to Chart X	Refer to Chart X	
05	Maintained, Non-Illuminated Selector Switch: 3-Position with 2NO Contact Blocks	W22S3-HW-10/10	H, O, A	\$ 39.30
06	Maintained, Non-Illuminated Selector Switch with Pilot Light: 3-Position with 2NO Contact Blocks Unibody, Non-Relampable*	W22S3-HW-10/10	H, O, A	\$ 58.30
		Refer to Chart X	Refer to Chart X	
07	Pilot Light: Unibody, Non-Relampable*	Refer to Chart X	Refer to Chart X	\$ 19.00
08	Momentary, Non-Illuminated Dual Push Buttons: Extended Red (Bottom) with 1NC Contact Block and Flush Green (Top) with 1NO Contact Block	W22DPB-ERFG-01/10	—	\$ 40.20
09	Momentary, Non-Illuminated Dual Push Buttons with Pilot Light: Extended Red (Bottom) with 1NC Contact Block and Flush Green (Top) with 1NO Contact Block Unibody, Non-Relampable*	W22DPB-ERFG-01/10	—	\$ 59.20
		Refer to Chart X	Refer to Chart X	

NOTE: * Pilot lights only available if Contactor Coil Voltage Code (III) XC, D, XAJ, XN, F, ZC or ZQ is selected. Pilot light voltage will be 24V AC/DC, 110-130V AC/DC, or 220-240V AC to match contactor coil voltage.

† The legend plate face color is black with white letters.

**SEE TOP OF PAGE FOR PART
BUILDER CHARTS X - XI**

IT'S EASY TO BUILD YOUR OWN ENCLOSED DOL STARTER

Simply pick the code number from each of the sections below and combine them to build your part number.

Enclosed Type E Direct-On-Line (DOL) Starters (FOR MOTOR VOLTAGE 480Y/277V)

E630 - I II III IV V VI VII VIII IX X XI

Example: To build one of our most popular Enclosed DOL Starters, the part number would be **E630 + II + III + IV + V + VI + VII + VIII + IX + X + XI** or **E630-GD10-10-23-HGRY-06R-W2**

I. ENCLOSED STARTER TYPE

CODE	DESCRIPTION	LIST
E630	Enclosed Series 630 Type E DOL Starter: Series 330 MPCB + Series 300 Contactor	\$198.00

II. NON-REVERSING CONTACTOR (3 NORMALLY OPEN POLES)

CODE	MAX. Ie (A)	MOTOR SIZE @ 480V 3 PHASE										CONTACTOR CAT. NO. PREFIX	LIST
		< 1/2HP	1/2HP	3/4HP	1-1/2HP	2HP	3HP	5HP	10HP	15HP	20HP		
G	9	✓	✓	✓	✓	✓	✓	✓	—	—	—	300-S09N30	\$ 53.00
J	18	—	—	—	—	—	—	—	✓	—	—	300-S18N30	\$ 87.00
K	25	—	—	—	—	—	—	—	—	✓	—	300-S25N30	\$ 99.00
L	32	—	—	—	—	—	—	—	—	✓	—	300-S32N30	\$130.00
M	40	—	—	—	—	—	—	—	—	—	✓	300-S40N30	\$178.00

**III. CONTACTOR COIL VOLTAGE CODE****AC COIL VOLTAGE CODES**

VOLTAGE	12	24	48	110 / 120	208	220	230	240	277	400	400 ~ 415	480	500	550	600
50Hz	—	—	—	D	—	—	—	—	—	—	R	—	T	U	—
60Hz	—	—	—	D	L	—	—	F	P	—	—	R	—	—	T
50/60Hz	XB	XC	XJ	—	—	XAJ	XN	—	—	XAM	—	—	—	—	—

DC COIL VOLTAGE CODES

VOLTAGE	12	24	125	250	LIST
-S09 to -S25	ZB	ZC	ZQ	ZP	\$ 35.00
-S32 to -S40	ZB	ZC	ZQ	ZP	\$ 78.00

IV. CONTACTOR AUXILIARY CONTACT CONFIGURATION

CODE	DESCRIPTION	LIST
00	Without Auxiliary Contacts (Contactor Codes L & M)	—
10	1 Normally Open*	\$ 18.00
01	1 Normally Closed*	\$ 18.00

*NOTE: Integral right side mounted on Contactor Codes G, J & K, front mounted on Contactor Codes L & M.

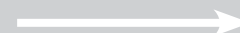
V. MOTOR PROTECTION CIRCUIT BREAKER W/THERMAL AND MAGNETIC TRIP ELEMENTS

CODE	ADJUSTMENT RANGE (A)	MAGNETIC TRIP CURRENT (A)	INTERRUPT CURRENT (Icu) (kA)		MPCB CAT. NO.	LIST
			400V	480V		
FOR CONTACTOR CODE G & MOTOR SIZE <1/2HP						
01	0.10 ~ 0.16	2.1	100	100	330-T25S2C16	\$122.00
02	0.16 ~ 0.25	3.3	100	100	330-T25S2C25	\$122.00
03	0.25 ~ 0.40	5.2	100	100	330-T25S2C40	\$132.00
04	0.40 ~ 0.63	8.2	100	100	330-T25S2C63	\$136.00
FOR CONTACTOR CODE G & MOTOR SIZE 1/2HP						
05	0.63 ~ 1.0	13	100	100	330-T25S2D10	\$139.00
FOR CONTACTOR CODE G & MOTOR SIZE 3/4HP						
06	1.0 ~ 1.6	21	100	100	330-T25S2D16	\$139.00
FOR CONTACTOR CODE G & MOTOR SIZE 1-1/2HP						
07	1.6 ~ 2.5	33	100	100	330-T25S2D25	\$139.00
FOR CONTACTOR CODE G & MOTOR SIZE 2HP						
08	2.5 ~ 4.0	52	100	100	330-T25S2D40	\$139.00
FOR CONTACTOR CODE G & MOTOR SIZE 3HP						
09	4.0 ~ 6.3	82	100	100	330-T25S2D63	\$148.00
FOR CONTACTOR CODE G & MOTOR SIZE 5HP						
10	6.3 ~ 10	130	100	42	330-T25S2U10	\$154.00
FOR CONTACTOR CODE J & MOTOR SIZE 10HP						
11*	10 ~ 16	208	50	10	330-T25S2U16	\$170.00
FOR CONTACTOR CODE K & MOTOR SIZE 15HP						
12*	16 ~ 20	260	50	10	330-T25S2U20	\$185.00
FOR CONTACTOR CODE L & MOTOR SIZE 15HP						
13*	20 ~ 25	325	50	10	330-T25S2U25	\$218.00
FOR CONTACTOR CODE M & MOTOR SIZE 20HP						
14*	25 ~ 32	416	50	10	330-T25S2U32	\$218.00

*NOTE: Type F combination motor controller configuration only.

DISCOUNT
SCHEDULE **H**

**SEE OPPOSITE PAGE
FOR PART BUILDER
CHARTS VI - XI**



ENCLOSED DOL STARTER PART BUILDER (CONT.)**VI. MOTOR PROTECTION CIRCUIT BREAKER ACCESSORIES**

	FRONT MOUNT AUX., 1 NO + 1 NC	SIDE MOUNT AUX., 1 NO + 1 NC	SIDE MOUNT AUX., 2 NO	TRIP IND. AUX., 2 NO + 2 NC	LINE SIDE TERM. BARRIER	
CODE	330-FA11S25	330-SA11S25	330-SA20S25	330-STA22S25	330-LSTB25	LIST
18	—	—	—	1	1	\$111.00
19	1	—	—	1	1	\$132.00
20	—	1	—	1	1	\$132.00
21	—	—	1	1	1	\$132.00
22	1	1	—	1	1	\$153.00
23	1	—	1	1	1	\$153.00

VII. POLYCARBONATE ENCLOSURE DIMENSION (TYPE 4X & IP65)

CODE	FOR CONTACTOR CODES	DIMENSION REF. / H x W x D	LIST
G	AC and DC: G, J, K	1 / 255mm x 180mm x 177mm	\$270.00
H	AC and DC: G, J, K, L, M	2 / 378mm x 188mm x 181mm	\$648.00

VIII. MPCB EXTERNAL OPERATING HANDLE OPTIONS

CODE	DESCRIPTION	OPERATOR COLOR	BEZEL COLOR	LIST
(Blank)	None	—	—	—
GRY	Round (Type 1, 2, 3, 3R, 4/4X, 12, 13 and IP65)	Red	Yellow	\$109.50
GBG	Round (Type 1, 2, 3, 3R, 4/4X, 12, 13 and IP65)	Black	Grey	\$109.50

X. 22MM IEC UNIBODY PILOT LIGHT OPTIONS

CODE	DESCRIPTION	LED/LENS COLOR	CAT. NO.	LEGEND PLATE†
(Blank)	None	—	—	—
A	Non-Relampable	Amber	W22UNR-***LA-WNLA	FAULT
G	Non-Relampable	Green	W22UNR-***LG-WNLG	RUN
R	Non-Relampable	Red	W22UNR-***LR-WNLR	RUN

NOTE: † The legend plate face color is black with white letters.

*** Represents the Unibody pilot light voltage code. Voltage code will be based on the contactor coil voltage.

XI. WIRING OPTIONS

CODE	DESCRIPTION	FOR PILOT DEVICE CODES	FOR PILOT LIGHT CODES	WIRING DIAGRAM REF.‡	LIST
WW	Without Wiring	ALL	ALL	—	—
W2	Two Wire Control Wiring†	03, 04	(Blank), G*, R*	1a	\$18.00
		04	A	1b	
		05, 06	(Blank), G*, R*	2a	
		06	A	2b	
W3	Three Wire Control Wiring*†‡	01, 02, 08, 09	(Blank), G, R	3a	\$18.00
		02, 09	A	3b	

NOTE: * Contactor Auxiliary Contact Configuration Code 10 must be selected for this option.

† Motor protection circuit breaker front mounted auxiliary 330-FA11S25 must be used.

‡ Use W3 for Remote Wiring, refer to the installation instructions for details.

‡ For wiring diagrams go to www.c3controls.com.**IX. 22MM IEC PILOT DEVICE OPTIONS**

CODE	DESCRIPTION	22MM CAT. NO.	LEGEND PLATE†	LIST
00	None	—	—	—
01	Momentary, Non-Illuminated Push Buttons: Flush Green with 1NO Contact Block Extended Red with 1NC Contact Block	W22PB-FG-10	START	\$44.20
		W22PB-ER-01	STOP	
02	Momentary, Non-Illuminated Push Buttons with Pilot Light: Flush Green with 1NO Contact Block Extended Red with 1NC Contact Block Unibody, Non-Relampable*	W22PB-FG-10	START	\$63.20
		W22PB-ER-01	STOP	
		Refer to Chart X	Refer to Chart X	
03	Maintained, Non-Illuminated Selector Switch: 2-Position with 1NO Contact Block	W22S2-HW-10	OFF, ON	\$27.20
04	Maintained, Non-Illuminated Selector Switch with Pilot Light: 2-Position with 1NO Contact Block Unibody, Non-Relampable*	W22S2-HW-10	OFF, ON	\$46.20
		Refer to Chart X	Refer to Chart X	
05	Maintained, Non-Illuminated Selector Switch: 3-Position with 2NO Contact Blocks	W22S3-HW-10/10	H, O, A	\$39.30
06	Maintained, Non-Illuminated Selector Switch with Pilot Light: 3-Position with 2NO Contact Blocks Unibody, Non-Relampable*	W22S3-HW-10/10	H, O, A	\$58.30
		Refer to Chart X	Refer to Chart X	
07	Pilot Light: Unibody, Non-Relampable*	Refer to Chart X	Refer to Chart X	\$19.00
08	Momentary, Non-Illuminated Dual Push Buttons: Extended Red (Bottom) with 1NC Contact Block and Flush Green (Top) with 1NO Contact Block	W22DPB-ERFG-01/10	—	\$40.20
09	Momentary, Non-Illuminated Dual Push Buttons with Pilot Light: Extended Red (Bottom) with 1NC Contact Block and Flush Green (Top) with 1NO Contact Block Unibody, Non-Relampable*	W22DPB-ERFG-01/10	—	\$59.20
		Refer to Chart X	Refer to Chart X	

NOTE: * Pilot lights only available if Contactor Coil Voltage Code (III) XC, D, XAJ, XN, F, ZC or ZQ is selected. Pilot light voltage will be 24V AC/DC, 110-130V AC/DC, or 220-240V AC to match contactor coil voltage.

† The legend plate face color is black with white letters.

**SEE TOP OF PAGE FOR PART
BUILDER CHARTS X - XI**

IT'S EASY TO BUILD YOUR OWN ENCLOSED DOL STARTER

Simply pick the code number from each of the sections below and combine them to build your part number.

Enclosed Type E Direct-On-Line (DOL) Starters (FOR MOTOR VOLTAGE 600Y/347V)

E630 - I II III IV V VI VII VIII IX X XI

Example: To build one of our most popular Enclosed DOL Starters, the part number would be **E630 + II + III + IV + V + VI + VII + VIII + IX + X + XI** or **E630-GD10-10-23-HGRY-06R-W2**

I. ENCLOSED STARTER TYPE

CODE	DESCRIPTION	LIST
E630	Enclosed Series 630 Type E DOL Starter: Series 330 MPCB + Series 300 Contactor	\$198.00

II. NON-REVERSING CONTACTOR (3 NORMALLY OPEN POLES)

	MAX. Ie (A)	MOTOR SIZE @ 600V 3 PHASE											CONTACTOR	LIST
CODE	AC-3	< 1/4HP	1/4HP	1/2HP	1HP	1-1/2HP	3HP	5HP	7-1/2HP	15HP	20HP	25HP	CAT. NO. PREFIX	
G	9	✓	✓	✓	✓	✓	✓	✓	✓	—	—	—	300-S09N30	\$ 53.00
J	18	—	—	—	—	—	—	—	—	✓	—	—	300-S18N30	\$ 87.00
K	25	—	—	—	—	—	—	—	—	✓	—	—	300-S25N30	\$ 99.00
L	32	—	—	—	—	—	—	—	—	—	✓	—	300-S32N30	\$130.00
M	40	—	—	—	—	—	—	—	—	—	—	✓	300-S40N30	\$178.00

III. CONTACTOR COIL VOLTAGE CODE

AC COIL VOLTAGE CODES															
VOLTAGE	12	24	48	110 / 120	208	220	230	240	277	400	400 ~ 415	480	500	550	600
50Hz	—	—	—	D	—	—	—	—	—	—	R	—	T	U	—
60Hz	—	—	—	D	L	—	—	F	P	—	—	R	—	—	T
50/60Hz	XB	XC	XJ	—	—	XAJ	XN	—	—	XAM	—	—	—	—	—

DC COIL VOLTAGE CODES

VOLTAGE	12	24	125	250	LIST
-S09 to -S25	ZB	ZC	ZQ	ZP	\$ 35.00
-S32 to -S40	ZB	ZC	ZQ	ZP	\$ 78.00

IV. CONTACTOR AUXILIARY CONTACT CONFIGURATION

CODE	DESCRIPTION	LIST
00	Without Auxiliary Contacts (Contactor Codes L & M)	—
10	1 Normally Open*	\$ 18.00
01	1 Normally Closed*	\$ 18.00

*NOTE: Integral right side mounted on Contactor Codes G, J & K, front mounted on Contactor Codes L & M.

V. MOTOR PROTECTION CIRCUIT BREAKER W/THERMAL AND MAGNETIC TRIP ELEMENTS

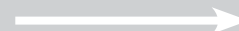
CODE	ADJUSTMENT RANGE (A)	MAGNETIC TRIP CURRENT (A)	INTERRUPT CURRENT (Icu) (kA)		MPCB CAT. NO.	LIST
			400V	480V		
FOR CONTACTOR CODE G & MOTOR SIZE <1/4HP						
01	0.10 ~ 0.16	2.1	100	100	330-T25S2C16	\$122.00
02	0.16 ~ 0.25	3.3	100	100	330-T25S2C25	\$122.00
04	0.40 ~ 0.63	5.2	100	100	330-T25S2C63	\$136.00
FOR CONTACTOR CODE G & MOTOR SIZE 1/4HP						
03	0.25 ~ 0.40	8.2	100	100	330-T25S2C40	\$132.00
FOR CONTACTOR CODE G & MOTOR SIZE 1/2HP						
05	0.63 ~ 1.0	13	100	100	330-T25S2D10	\$139.00
FOR CONTACTOR CODE G & MOTOR SIZE 1HP						
06	1.0 ~ 1.6	21	100	100	330-T25S2D16	\$139.00
FOR CONTACTOR CODE G & MOTOR SIZE 1-1/2HP						
07	1.6 ~ 2.5	33	100	100	330-T25S2D25	\$139.00
FOR CONTACTOR CODE G & MOTOR SIZE 3HP						
08	2.5 ~ 4.0	52	100	100	330-T25S2D40	\$139.00
FOR CONTACTOR CODE G & MOTOR SIZE 5HP						
09	4.0 ~ 6.3	82	100	100	330-T25S2D63	\$148.00
FOR CONTACTOR CODE G & MOTOR SIZE 7-1/2HP						
10	6.3 ~ 10	130	100	42	330-T25S2U10	\$154.00
FOR CONTACTOR CODE J & MOTOR SIZE 15HP						
11*	10 ~ 16	208	50	10	330-T25S2U16	\$170.00
FOR CONTACTOR CODE K & MOTOR SIZE 15HP						
12*	16 ~ 20	260	50	10	330-T25S2U20	\$185.00
FOR CONTACTOR CODE L & MOTOR SIZE 20HP						
13*	20 ~ 25	325	50	10	330-T25S2U25	\$218.00
FOR CONTACTOR CODE M & MOTOR SIZE 25HP						
14*	25 ~ 32	416	50	10	330-T32S2U25	\$218.00

*NOTE: Type F combination motor controller configuration only.



DISCOUNT
SCHEDULE **H**

**SEE OPPOSITE PAGE
FOR PART BUILDER
CHARTS VI - XI**



ENCLOSED DOL STARTER PART BUILDER (CONT.)**VI. MOTOR PROTECTION CIRCUIT BREAKER ACCESSORIES**

	FRONT MOUNT AUX., 1 NO + 1 NC	SIDE MOUNT AUX., 1 NO + 1 NC	SIDE MOUNT AUX., 2 NO	TRIP IND. AUX., 2 NO + 2 NC	LINE SIDE TERM. BARRIER	
CODE	330-FA11S25	330-SA11S25	330-SA20S25	330-STA22S25	330-LSTB25	LIST
18	—	—	—	1	1	\$111.00
19	1	—	—	1	1	\$132.00
20	—	1	—	1	1	\$132.00
21	—	—	1	1	1	\$132.00
22	1	1	—	1	1	\$153.00
23	1	—	1	1	1	\$153.00

VII. POLYCARBONATE ENCLOSURE DIMENSION (TYPE 4X & IP65)

CODE	FOR CONTACTOR CODES	DIMENSION REF. / H x W x D	LIST
G	AC and DC: G, J, K	1 / 255mm x 180mm x 177mm	\$270.00
H	AC and DC: G, J, K, L, M	2 / 378mm x 188mm x 181mm	\$648.00

VIII. MPCB EXTERNAL OPERATING HANDLE OPTIONS

CODE	DESCRIPTION	OPERATOR COLOR	BEZEL COLOR	LIST
(Blank)	None	—	—	—
GRY	Round (Type 1, 2, 3, 3R, 4/4X, 12, 13 and IP65)	Red	Yellow	\$109.50
GBG	Round (Type 1, 2, 3, 3R, 4/4X, 12, 13 and IP65)	Black	Grey	\$109.50

X. 22MM IEC UNIBODY PILOT LIGHT OPTIONS

CODE	DESCRIPTION	LED/LENS COLOR	CAT. NO.	LEGEND PLATE†
(Blank)	None	—	—	—
A	Non-Relampable	Amber	W22UNR-***LA-WNLA	FAULT
G	Non-Relampable	Green	W22UNR-***LG-WNLG	RUN
R	Non-Relampable	Red	W22UNR-***LR-WNLR	RUN

NOTE: † The legend plate face color is black with white letters.

*** Represents the Unibody pilot light voltage code. Voltage code will be based on the contactor coil voltage.

XI. WIRING OPTIONS

CODE	DESCRIPTION	FOR PILOT DEVICE CODES	FOR PILOT LIGHT CODES	WIRING DIAGRAM REF.‡	LIST
WW	Without Wiring	ALL	ALL	—	—
W2	Two Wire Control Wiring†	03, 04	(Blank), G*, R*	1a	\$18.00
		04	A	1b	
		05, 06	(Blank), G*, R*	2a	
W3	Three Wire Control Wiring*†‡	06	A	2b	\$18.00
		01, 02, 08, 09	(Blank), G, R	3a	
		02, 09	A	3b	

NOTE: * Contactor Auxiliary Contact Configuration Code 10 must be selected for this option.

† Motor protection circuit breaker front mounted auxiliary 330-FA11S25 must be used.

‡ Use W3 for Remote Wiring, refer to the installation instructions for details.

‡ For wiring diagrams go to www.c3controls.com.**IX. 22MM IEC PILOT DEVICE OPTIONS**

CODE	DESCRIPTION	22MM CAT. NO.	LEGEND PLATE†	LIST
00	None	—	—	—
01	Momentary, Non-Illuminated Push Buttons: Flush Green with 1NO Contact Block Extended Red with 1NC Contact Block	W22PB-FG-10	START	\$44.20
		W22PB-ER-01	STOP	
02	Momentary, Non-Illuminated Push Buttons with Pilot Light: Flush Green with 1NO Contact Block Extended Red with 1NC Contact Block Unibody, Non-Relampable*	W22PB-FG-10	START	\$63.20
		W22PB-ER-01	STOP	
		Refer to Chart X	Refer to Chart X	
03	Maintained, Non-Illuminated Selector Switch: 2-Position with 1NO Contact Block	W22S2-HW-10	OFF, ON	\$27.20
04	Maintained, Non-Illuminated Selector Switch with Pilot Light: 2-Position with 1NO Contact Block Unibody, Non-Relampable*	W22S2-HW-10	OFF, ON	\$46.20
		Refer to Chart X	Refer to Chart X	
05	Maintained, Non-Illuminated Selector Switch: 3-Position with 2NO Contact Blocks	W22S3-HW-10/10	H, O, A	\$39.30
06	Maintained, Non-Illuminated Selector Switch with Pilot Light: 3-Position with 2NO Contact Blocks Unibody, Non-Relampable*	W22S3-HW-10/10	H, O, A	\$58.30
		Refer to Chart X	Refer to Chart X	
07	Pilot Light: Unibody, Non-Relampable*	Refer to Chart X	Refer to Chart X	\$19.00
08	Momentary, Non-Illuminated Dual Push Buttons: Extended Red (Bottom) with 1NC Contact Block and Flush Green (Top) with 1NO Contact Block	W22DPB-ERFG-01/10	—	\$40.20
09	Momentary, Non-Illuminated Dual Push Buttons with Pilot Light: Extended Red (Bottom) with 1NC Contact Block and Flush Green (Top) with 1NO Contact Block Unibody, Non-Relampable*	W22DPB-ERFG-01/10	—	\$59.20
		Refer to Chart X	Refer to Chart X	

NOTE: * Pilot lights only available if Contactor Coil Voltage Code (III) XC, D, XAJ, XN, F, ZC or ZQ is selected. Pilot light voltage will be 24V AC/DC, 110-130V AC/DC, or 220-240V AC to match contactor coil voltage.

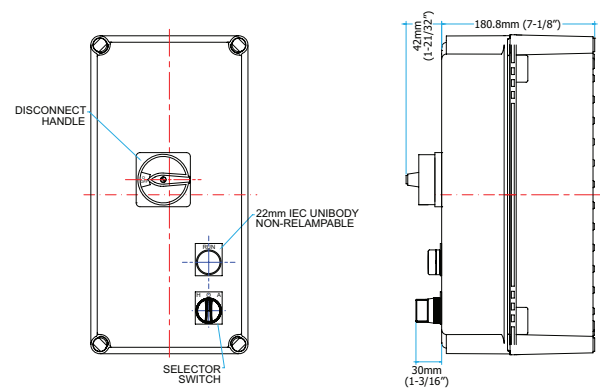
† The legend plate face color is black with white letters.

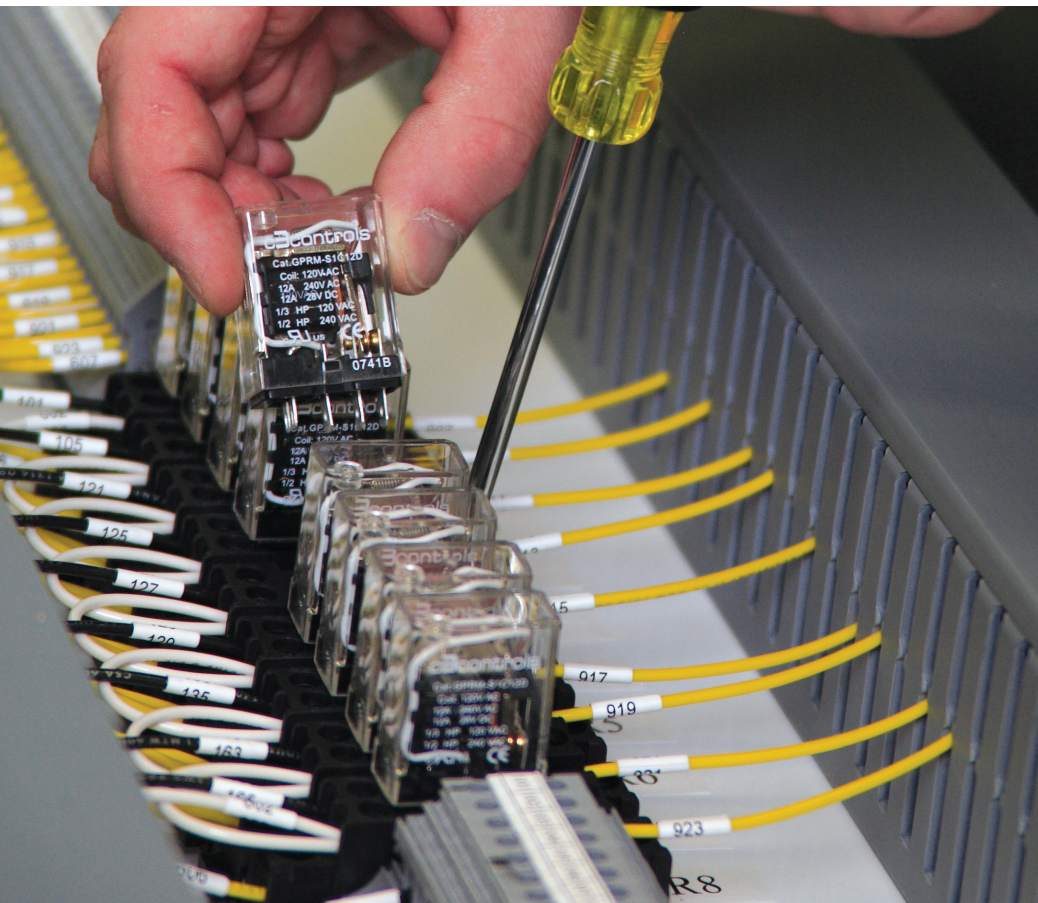
**SEE TOP OF PAGE FOR PART
BUILDER CHARTS X - XI**

SPECIFICATIONS:
SERIES E630 ENCLOSED DIRECT-ON-LINE (DOL) STARTER SPECIFICATIONS

		STARTER CURRENT RATING CODE					
	UNITS	G	H	J	K	L	M
ELECTRICAL GENERAL		For detailed contactor specifications by starter rating code, see Section 4 Page 13					
		For detailed motor protection circuit breaker specifications by catalog number, see Section 9 Page 13					
Rated Operating Frequency	Hz	50/60					
Rated Control Frequencies	Hz	AC: 50Hz, 60Hz, 50/60Hz and DC					
ELECTRICAL UL/CSA APPLICATIONS		For detailed contactor specifications by starter rating code, see Section 4 Page 13					
		For detailed motor protection circuit breaker specifications by catalog number, see Section 9 Page 13					
Rated Operating Voltage, Ue	VAC	600					
Short Circuit Current Rating @ 480V AC	kA	50					
Maximum Fuse or Circuit Breaker Size	A	450					
Short Circuit Current Rating @ 600V AC	kA	25					
Maximum Fuse or Circuit Breaker Size	A	450					
ELECTRICAL IEC APPLICATIONS		For detailed contactor specifications by starter rating code, see Section 4 Page 13					
		For detailed motor protection circuit breaker specifications by catalog number, see Section 9 Page 14					
Rated Insulation Voltage, Ui	V	690					
Rated Impulse Voltage, Uimp	kV	6					
Rated Operating Voltage, Ue	VAC	690					
COIL CHARACTERISTICS		For detailed contactor specifications by starter rating code, see Section 4 Page 14					
Rated Insulation Voltage, Ui	V	1,000					
Operating Limits		80 ~ 110% of Rated Coil Voltage					
MECHANICAL		For detailed contactor specifications by starter rating code, see Section 4 Page 15					
		For detailed motor protection circuit breaker specifications by catalog number, see Section 9 Page 14					
ENVIRONMENTAL		For detailed contactor specifications by starter rating code, see Section 4 Page 15					
		For detailed motor protection circuit breaker specifications by catalog number, see Section 9 Page 14					
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					
Environmental Protection Ratings							
Main Terminals (with conductors connected)		IP20					
Coil Terminals		IP20					
Auxiliary Contact Terminals		IP20					
Operating Handle							
Code G		Type 1, 2, 3, 3R, 4/4X, 12, 13, and IP65					
Enclosure							
Codes G, H		Type 1, 4/4X and IP66					
Pilot Devices		Type 1, 2, 3, 3R, 4/4X, 12, 13 and IP65					
CONSTRUCTION - GENERAL		For detailed contactor specifications by starter rating code, see Section 4 Page 15					
		For detailed motor protection circuit breaker specifications by catalog number, see Section 9 Page 15					
Number of Poles		3					
Pollution Degree		3					
Trip Class		10					
MATERIALS							
Pilot Devices		For detailed 22mm IEC pilot device specifications, see Section 15 Page 48					
Enclosure		Polycarbonate					
ROHS COMPLIANCE		For RoHS compliance documentation by product, refer to www.c3controls.com					

**ENCLOSED DOL STARTER
ASSEMBLIES: ENCLOSURE TYPE "H" -
DIMENSION REF. 2**





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