ENCLOSED MOTOR PROTECTION CIRCUIT BREAKER & CONTACTOR ASSEMBLIES



Section 12

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.



Enclosed Direct-On-Line Starters Motor Protection Circuit Breaker + Contactor	6
Enclosed Type E Direct-On-Line Starters Motor Protection Circuit Breaker + Contactor	8
For 200V 3 Phase Motors	10
For 240V 3 Phase Motors	12
For 480Y/277V 3 Phase Motors	14
For 600Y/347V 3 Phase Motors	16
Specifications	18
Dimensions	19

PROVEN





Conformity to Standards: Certifications:

MOTOR PROTECTION CIRCUIT BREAKERS

CSA C22.2 No. 14

IEC 60947-1, 60947-4-1 CE Marked (per EU Low Voltage Directive 2006/95/EC and

RoHS Directive 2011/65/EU)

CONTACTORS

CSA C22.2 No. 14

IEC 60947-1, 60947-4-1 CE Marked (per EU Low Voltage Directive 2006/95/EC and

RoHS Directive 2011/65/EU)

ENCLOSURES

UL 50 UL Listed

IEC 60529

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 PROD	UCT 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.					
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.					
✓ Limited Lifetime Warranty*	Every product is backed by our limited 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



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.

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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

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	8	Part IX							
Motor branch-circuit, short circuit, and ground-fault protection		Part IV							
Motor circuit conductor	1	Part II							
Motor controller		Part VII							
Motor control circuits		Part VI							
Motor overload protection		Part III							
Motor	4	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 **FAS**1

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.

equipment and user.

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.

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	00	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							

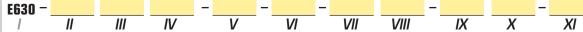
Our motor control products align with Article 430 Part VII, Motor Controller, of the NFPA 70, the National Electrical Code.



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



Example: To build one of our most popular Enclosed DOL Starters, the part number would be E630 + II + III + IV + V + VI + VIII + IXI + 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)													
		RATINGS FOR SWITCHING AC MOTORS - AC-2, AC-3												
	MAX.	le (A)		3 PHASE I	(W (50Hz)		1 PHASE	HP (60Hz)		3 PHASE	HP (60Hz)		CAT. NO.	
CODE	AC-3	AC-1	230V	400/415V	500V	690V	115V	230V	200V	230V	460V	575V	PREFIX	LIST
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
Н	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 ~ 4	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 C	OIL VOLI	AGE COL	IES							
																LIST
VOLTAGE		1	2		2	4			1	25		250				
-S09 to -S25	ZB ZC				ZQ				ZP			\$ 35.00				
-S32 to -S40		Z	В		Z	С		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: Ir	*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

	L	. MOTOR	PROTECT	TION CIF	CUIT B	REAK	ER WITH	1 THERI	MAL AI	VD M	4GNE1	IC TRI	P ELEI	WENTS	
	RATED OPER.	ADJUSTMENT	MAGNETIC TRIP		MATE UPTING		R	ATINGS FO	R SWITC	HING AC	MOTOR	S*		MOTOR Protection	
	CURRENT	RANGE	CURRENT		(Icu) (kA)		3 PHASE I	kW (50Hz)		;	B PHASE	HP (60H	z)	CIRCUIT BREAKER	
CODE	(A)	(A)	(A)	400V	480V	230V	400/415V	500V	690V	200V	230V	460V	575V	CAT. NO.	LIST
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 a	are for referen	ce. The final	selection of	f the Mo	tor Protection	n Circuit Bro	eaker must	be base	d on the a	cutal moto	or full load	current.	

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	VI. MOTOR	PROTECTIO	N CIRCUIT	BREAKER A	CCESSORII	s
	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

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 R	Non-Relampable	Green	W22UNR-***LG-WNLG	RUN						
R	Non-Relampable	Red	W22UNR-***LR-WNLR	RUN						
NOTE: † T	he legend plate face col	or 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.



CODE FOR O			VII. POLYCARBONATE ENCLOSURE DIMENSION (TYPE 4X & IP66)							
CODE FOR CO	INTACTOR CODES	DIMENSION REF. / H x W x D	LIST							
G AC an	d DC: G, H, J, K	1 / 255mm x 180mm x 177mm	\$270.00							
H AC an	d 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:			\$ 44.20
	Flush Green with 1NO Contact Block	W22PB-FG-10	START	
	Extended Red with 1NC Contact Block	W22PB-ER-01	STOP	
02	Momentary, Non-Illuminated Push Buttons with Pilot Light:			\$ 63.20
	Flush Green with 1NO Contact Block	W22PB-FG-10	START	
	Extended Red with 1NC Contact Block	W22PB-ER-01	STOP	ļ
	Unibody, Non-Relampable*	Refer to Chart X	Refer to Chart X	
03	Maintained, Non-Illuminated Selector Switch:			\$ 27.20
	2-Position with 1NO Contact Block	W22S2-HW-10	OFF, ON	
04	Maintained, Non-Illuminated Selector Switch with Pilot Light:			\$ 46.20
	2-Position with 1NO Contact Block	W22S2-HW-10	OFF, ON	
	Unibody, Non-Relampable*	Refer to Chart X	Refer to Chart X	
05	Maintained, Non-Illuminated Selector Switch:			\$ 39.30
	3-Position with 2NO Contact Blocks	W22S3-HW-10/10	H, O, A	
06	Maintained, Non-Illuminated Selector Switch with Pilot Light:			\$ 58.30
	3-Position with 2NO Contact Blocks	W22S3-HW-10/10	H, O, A	
	Unibody, Non-Relampable*	Refer to Chart X	Refer to Chart X	
07	Pilot Light:			\$ 19.00
	Unibody, Non-Relampable*	Refer to Chart X	Refer to Chart X	
08	Momentary, Non-Illuminated Dual Push Buttons:			\$ 40.20
	Extended Red (Bottom) with 1NC Contact Block and Flush Green (Top) with 1NO Contact Block	W22DPB-ERFG-01/10	_	
09	Momentary, Non-Illuminated Dual Push Buttons with Pilot Light:			\$ 59.20
	Extended Red (Bottom) with 1NC Contact Block and Flush Green (Top) with 1NO Contact Block	W22DPB-ERFG-01/10	<u> — </u>	
	Unibody, Non-Relampable*	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, † The legend plate face color is black with white letters.	or 220-240V AC to match contactor co	l voltage.	



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.



-S32 to -S40

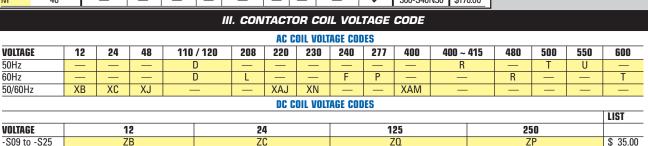
IT'S EASY TO BUILD YOUR OWN ENCLOSED DOL STARTER

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)

	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. le (A)		MOTOR SIZE @ 200V 3 PHASE							CONTACTOR		
CODE	AC-3	< 1/4HP	1/3HP	1/2HP	1HP	1-1/2HP	ЗНР	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



ZQ

	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.					

ZB

V. M	V. MOTOR PROTECTION CIRCUIT BREAKER W/THERMAL AND MAGNETIC TRIP ELEMENTS								
CODE	ADJUSTMENT RANGE (A)	MAGNETIC TRIP CURRENT (A)	400V	RRENT (Icu) (kA) 480V	MPCB Cat. No.	LIST			
	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 CONTAC	TOR CODE G & MO	TOR SIZE 1/3HP					
06	1.0 ~ 1.6	21	100	100	330-T25S2D16	\$139.00			
		FOR CONTAC	TOR CODE G & MO	TOR SIZE 1/2HP					
07	1.6 ~ 2.5	33	100	100	330-T25S2D25	\$139.00			
		FOR CONTAC	CTOR CODE G & M	OTOR SIZE 1HP					
08	2.5 ~ 4.0	52	100	100	330-T25S2D40	\$139.00			
		FOR CONTACT	OR CODE G & MOT	OR SIZE 1-1/2HP					
09	4.0 ~ 6.3	82	100	100	330-T25S2D63	\$148.00			
		FOR CONTAC	CTOR CODE G & M	OTOR SIZE 3HP					
10	6.3 ~ 10	130	100	42	330-T25S2U10	\$154.00			
		FOR CONTA	CTOR CODE J & MI	OTOR SIZE 5HP					
11*	10 ~ 16	208	50	10	330-T25S2U16	\$170.00			
		FOR CONTAC	CTOR CODE K & M	OTOR SIZE 5HP					
12*	16 ~ 20	260	50	10	330-T25S2U20	\$185.00			
		FOR CONTACT	OR CODE L & MOT	OR SIZE 7-1/2HP					
13*	20 ~ 25	325	50	10	330-T25S2U25	\$218.00			
			TOR CODE M & MO	TOR SIZE 10HP					
14*	25 ~ 32	416	50	10	330-T25S2U32	\$218.00			
*NOTE:	Type F combination moto	r controller configuration	only.						



\$ 78.00

SEE OPPOSITE PAGE FOR PART BUILDER CHARTS VI – XI

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

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			
			The trans				

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 REE.‡	LIST		
ı	WW	Without Wiring	ALL	ALL				
ı	W2	Two Wire	03, 04	(Blank), G*, R*	1a	\$ 18.00		
ı		Control Wiring†	04	Α	1b			
ı			05, 06	(Blank), G*, R*	2a			
ı			06	Α	2b			
ı	W3	Three Wire	01, 02, 08, 09	(Blank), G, R	3a	\$ 18.00		
ı		Control Wiring*†◊	02, 09	Α	3b			

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 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,0,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: <u>Extended Red (Bottom) with 1NC Contact Block and Flush Green (Top) with 1NO Contact Block</u> <u>Unibody. Non-Relampable*</u>	W22DPB-ERFG-01/10 Refer to Chart X	— Refer to Chart X	\$ 59.20
	* Piot 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, † The legend plate face color is black with white letters.			oltage.



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)

Example: To build one of our most popular Enclosed DOL Starters, the part number would be E630 + II + III + IV + V + VI + VIII + 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. le (A)	(A) MOTOR SIZE @ 240V 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

					LIST
VOLTAGE	12	24	125	250	
-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. I	stanual vielta aida macuetad an Cantactau Cadaa C. 18 K. fuant macuetad an Cantactau Cadaa I	0 1/1

V. MOTOR PROTECTION CIRCUIT BREAKER W.	/THERMAL AND MAGNETIC TRIP ELEMENTS
V. IVICTOR FRICTEORICH CHICOTT BRIEFICH	/ IIIEIIIVIAE AIGO IVIAGIGETIG TITII EEEIVIETG

V. IVI	OTOR PROTECTION	JN CIRCUII BRE	AKER W/IHE	RIVIAL AIND IVIA	AGNETIC TRIP	ELEIVIEIN I S			
	ADJUSTMENT	MAGNETIC TRIP		RENT (Icu) (kA)	MPCB				
CODE	RANGE (A)	CURRENT (A)	400V	480V	CAT. NO.	LIST			
	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 CONTACT	TOR CODE G & MO	TOR SIZE 1/3HP					
06	1.0 ~ 1.6	21	100	100	330-T25S2D16	\$139.00			
		FOR CONTAC	TOR CODE G & MO	TOR SIZE 1/2HP					
07	1.6 ~ 2.5	33	100	100	330-T25S2D25	\$139.00			
		FOR CONTAC	CTOR CODE G & M	OTOR SIZE 1HP					
08	2.5 ~ 4.0	52	100	100	330-T25S2D40	\$139.00			
		FOR CONTACT	OR CODE G & MOT	OR SIZE 1-1/2HP					
09	4.0 ~ 6.3	82	100	100	330-T25S2D63	\$148.00			
		FOR CONTAC	CTOR CODE G & M	OTOR SIZE 3HP					
10	6.3 ~ 10	130	100	42	330-T25S2U10	\$154.00			
		FOR CONTAC	CTOR CODE J & MI	OTOR SIZE 5HP					
11*	10 ~ 16	208	50	10	330-T25S2U16	\$170.00			
		FOR CONTACT	OR CODE K & MOT	OR SIZE 7-1/2HP					
12*	16 ~ 20	260	50	10	330-T25S2U20	\$185.00			
		FOR CONTACT	OR CODE L & MOT	OR SIZE 7-1/2HP					
13*	20 ~ 25	325	50	10	330-T25S2U25	\$218.00			
		FOR CONTAC	TOR CODE M & MO	OTOR SIZE 10HP					
14*	25 ~ 32	416	50	10	330-T25S2U32	\$218.00			
*NOTE:	Type F combination moto	r controller configuration	only.						



SEE OPPOSITE PAGE FOR PART BUILDER CHARTS VI – XI

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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. F	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					
Н	AC and DC: G, J, K, L, M	2 / 378mm x 188mm x 181mm	\$648.00					

VII	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								
DESCRIPTION	LED/LENS COLOR	CAT. NO.	LEGEND PLATE†					
None	_	_	_					
Non-Relampable	Amber	W22UNR-***LA-WNLA	FAULT					
Non-Relampable	Green	W22UNR-***LG-WNLG	RUN					
Non-Relampable	Red	W22UNR-***LR-WNLR	RUN					
	DESCRIPTION None Non-Relampable Non-Relampable	DESCRIPTION COLOR None — Non-Relampable Amber Non-Relampable Green	DESCRIPTION COLOR CAT. NO. None — — — Non-Relampable Amber W22UNR-***LA-WNLA Non-Relampable Green W22UNR-***LG-WNLG					

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	(Blank), G*, R* A (Blank), G*, R*	1a 1b 2a	\$ 18.00			
		06	Α	2b				
W3	Three Wire	01, 02, 08, 09	(Blank), G, R	3a	\$ 18.00			
NOTE	Control Wiring*†◊	02, 09	Α	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:	W0000 50 40	OTA DT	\$ 44.20
	Flush Green with 1NO Contact Block Extended Red with 1NC Contact Block	W22PB-FG-10 W22PB-ER-01	START STOP	
02	Momentary, Non-Illuminated Push Buttons with Pilot Light: Flush Green with 1NO Contact Block Extended Red with 1NC Contact Block	W22PB-FG-10 W22PB-ER-01	START STOP	\$ 63.20
	Unibody, Non-Relampable*	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 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: <u>Extended Red (Bottom) with 1NC Contact Block and Flush Green (Top) with 1NO Contact Block</u> 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 the legend plate face color is black with white letters.	, 110-130V AC/DC, or 220-240V AC	to match contactor coil v	voltage.



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)

Example: To build one of our most popular Enclosed DOL Starters, the part number would be E630 + II + III + IV + V + VI + VIII + 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 @ 480V 3 PHASE CONTA										CONTACTOR		
CODE	AC-3	< 1/2HP									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 ~ 4	115	480	500	550	600
50Hz	_	_	_	D	<u> </u>	_	_	_	_	_	R		_	T	U	_
60Hz	_	_	_	D	L	_	_	F	Р	_	_		R	_	_	T
50/60Hz	XB	XC	XJ	_	I —	XAJ	XN	_	_	XAM	_		_	_	_	_
						DC C	OIL VOLT	AGE COL	ES							
																LIST
VOLTAGE		1	2		2	4			1	25			25	iO		
-S09 to -S25	-S09 to -S25 ZB ZC ZQ ZP						\$ 35.00									
-S32 to -S40		Z	В		Z	С			Z	<u>'</u> 0			Z	Р		\$ 78.00

	IV. CONTACTOR AUXILIARY CONTACT CONFIGURATION						
CODE	DESCRIPTION	LIST					
00 10 01	Without Auxiliary Contacts (Contactor Codes L & M)	_					
10	1 Normally Open*	\$ 18.00					
01	1 Normally Closed*	\$ 18.00					
*NOTE: I	*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 CUF 400V	RRENT (Icu) (kA) 480V	MPCB Cat. No.	LIST		
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 CONTAC	TOR CODE G & MO	TOR SIZE 1/2HP				
05	0.63 ~ 1.0	13	100	100	330-T25S2D10	\$139.00		
		FOR CONTAC	TOR CODE G & MO	TOR SIZE 3/4HP				
06	1.0 ~ 1.6	21	100	100	330-T25S2D16	\$139.00		
		FOR CONTACT	OR CODE G & MOT	OR SIZE 1-1/2HP				
07	1.6 ~ 2.5	33	100	100	330-T25S2D25	\$139.00		
		FOR CONTAC	CTOR CODE G & M	OTOR SIZE 2HP				
08	2.5 ~ 4.0	52	100	100	330-T25S2D40	\$139.00		
		FOR CONTAC	CTOR CODE G & M	OTOR SIZE 3HP				
09	4.0 ~ 6.3	82	100	100	330-T25S2D63	\$148.00		
		FOR CONTAC	CTOR CODE G & M	OTOR SIZE 5HP				
10	6.3 ~ 10	130	100	42	330-T25S2U10	\$154.00		
		FOR CONTAC	TOR CODE J & MO	TOR SIZE 10HP				
11*	10 ~ 16	208	50	10	330-T25S2U16	\$170.00		
		FOR CONTAC	TOR CODE K & MO	TOR SIZE 15HP				
12*	16 ~ 20	260	50	10	330-T25S2U20	\$185.00		
		FOR CONTAC	TOR CODE L & MO	TOR SIZE 15HP				
13*	20 ~ 25	325	50	10	330-T25S2U25	\$218.00		
		FOR CONTAC	TOR CODE M & MO	OTOR SIZE 20HP				
14*	25 ~ 32	416	50	10	330-T25S2U32	\$218.00		
*NOTE:	Type F combination mot	or controller configuration	on only.					



SEE OPPOSITE PAGE FOR PART BUILDER CHARTS VI – XI

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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					
Н	AC and DC: G, J, K, L, M	2 / 378mm x 188mm x 181mm	\$648.00					
G	AC and DC: G, J, K	1 / 255mm x 180mm x 177mm	\$270					

	VIII. MPCB EXTERNAL OPERATING HANDLE OPTIONS									
	CODE		OPERATOR COLOR	BEZEL COLOR						
ı	(Blank)	None	_	_	_					
	GRY	Round (Type 1, 2, 3, 3R, 4/4X, 12, 13 and IP65)	Red	Yellow	\$109.50					
ı	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 LT		2 11 1 20	13: 1.0						

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 REE.‡	LIST			
WW	Without Wiring	ALL	ALL		_			
W2	Two Wire	03, 04	(Blank), G*, R*	1a	\$ 18.00			
	Control Wiring†	04	Α	1b				
		05, 06	(Blank), G*, R*	2a				
		06	Α	2b				
W3	Three Wire	01, 02, 08, 09	(Blank), G, R	3a	\$ 18.00			
	Control Wiring*†◊	02, 09	Α	3b				
NOTE.	* Ct A:1:	. C + + C E	C - I - 10	the selected for the				

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 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/D(C, 110-130V AC/DC, or 220-240V A	C to match contactor coil	voltage.

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



MAX. le (A)

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)

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

 CODE
 AC-3
 < 1/4HP</th>
 1/4HP
 1HP
 1-1/2HP
 3HP
 5HP
 7-1/2HP
 15HP
 20HP
 25HP
 CAT. NO. PREFIX
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 300-S09N30
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III. CONTACTOR COIL VOLTAGE CODE

AC COIL VOLTAGE CODES															
VOLTAGE 12 24 48 110/120 208 220 230 240 277 400 4					400 ~ 415	480	500	550	600						
50Hz	_	_	_	D	_	_	_	_	_	_	R	_	T	U	_
60Hz	_	_	_	D	L	_	_	F	Р	_	_	R	—		T
50/60Hz	XB	XC	XJ	_	_	XAJ	XN	_	_	XAM	_	_	_	_	

DC COIL VOLTAGE CODES

					LISI
VOLTAGE	12	24	125	250	
-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: I	*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 CUR 400V	RENT (Icu) (kA) 480V	MPCB Cat. No.	LIST		
	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 CONTAC	TOR CODE G & MO	TOR SIZE 1/4HP	•			
03	0.25 ~ 0.40	8.2	100	100	330-T25S2C40	\$132.00		
		FOR CONTAC	TOR CODE G & MO	TOR SIZE 1/2HP				
05	0.63 ~ 1.0	13	100	100	330-T25S2D10	\$139.00		
		FOR CONTA	CTOR CODE G & M	OTOR SIZE 1HP				
06	1.0 ~ 1.6	21	100	100	330-T25S2D16	\$139.00		
		FOR CONTACT	OR CODE G & MOT	OR SIZE 1-1/2HP				
07	1.6 ~ 2.5	33	100	100	330-T25S2D25	\$139.00		
		FOR CONTA	CTOR CODE G & M	OTOR SIZE 3HP				
80	2.5 ~ 4.0	52	100	100	330-T25S2D40	\$139.00		
		FOR CONTA	CTOR CODE G & M	OTOR SIZE 5HP				
09	4.0 ~ 6.3	82	100	100	330-T25S2D63	\$148.00		
		FOR CONTACT	OR CODE G & MOT	OR SIZE 7-1/2HP				
10	6.3 ~ 10	130	100	42	330-T25S2U10	\$154.00		
		FOR CONTAC	CTOR CODE J & MC	ITOR SIZE 15HP				
11*	10 ~ 16	208	50	10	330-T25S2U16	\$170.00		
			TOR CODE K & MO					
12*	16 ~ 20	260	50	10	330-T25S2U20	\$185.00		
			CTOR CODE L & MC	ITOR SIZE 20HP				
13*	20 ~ 25	325	50	10	330-T25S2U25	\$218.00		
			TOR CODE M & M					
14*	25 ~ 32	416	50	10	330-T32S2U25	\$218.00		
*NOTE:	*NOTE: Type F combination motor controller configuration only.							



SEE OPPOSITE PAGE FOR PART BUILDER CHARTS VI – XI

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	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 & II								
	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				
	Н	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	_	<u> </u>	_					
GRY	Round (Type 1, 2, 3, 3R, 4/4X, 12, 13 and IP65)		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 LTD. I. L. C.								

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 REE.‡	LIST				
WW Without Wiring		Without Wiring	ALL	ALL						
	W2	Two Wire	03, 04	(Blank), G*, R*	1a	\$ 18.00				
		Control Wiring†	04	Α	1b					
			05, 06	(Blank), G*, R*	2a					
			06	Α	2b					
	W3	Three Wire	01, 02, 08, 09	(Blank), G, R	3a	\$ 18.00				
		Control Wiring*†◊	02, 09	Α	3b					
	MOTE.	* Cantagtar Auvilian	Cantant Cantinus	tion Code 10 mount	he colocted for thi	a antion				

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 PLATET	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: <u>Extended Red (Bottom) with 1NC Contact Block and Flush Green (Top) with 1NO Contact Block Unibody, Non-Relampable*</u>	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 the legend plate face color is black with white letters.	, 110-130V AC/DC, or 220-240V AC	to match contactor coil v	oltage.				

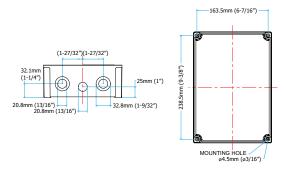
SPECIFICATIONS:

		STARTER CURRENT RATING CODE							
	UNITS	G	н	J	K	L	М		
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	Α	450							
Short Circuit Current Rating @ 600V AC	kA	25							
Maximum Fuse or Circuit Breaker Size									
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							
Rated Insulation Voltage, Ui	V				690				
Rated Impulse Voltage, Uimp	kV	6							
Rated Operating Voltage, Ue	VAC	690							
COIL CHARACTERISTICS		Fo	r detailed contacto	r specifications l	oy starter rating cod	de, 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 b	y starter rating code	e, see Section 4 P	age 15		
		For detailed m	notor protection ci	cuit breaker spe	cifications by catalo	og number, see Se	ection 9 Page 14		
ENVIRONMENTAL		For detailed contactor specifications by starter rating code, see Section 4 Page 15					Page 15		
		For detailed n	notor protection ci	rcuit breaker spe	cifications by catal	og number, see S	ection 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					IP20				
(with conductors connected)									
Coil Terminals					IP20				
Auxiliary Contact Terminals					IP20				
Operating Handle				T					
Code G				1ype 1, 2, 3, 3R,	4/4X, 12, 13, and IP	bb			
Enclosure				T	/4V I ID00				
Codes G, H Type 1, 4/4X and IP6									
Pilot Devices		Type 1, 2, 3, 3R, 4/4X, 12, 13 and IP65							
CONSTRUCTION - GENERAL					by starter rating co				
Nh a saf Dalaa		For detailed n	notor protection ci	rcuit breaker spe	cifications by catalo	og number, see S	ection 9 Page 15		
Number of Poles					3				
Pollution Degree					3				
Trip Class					10				
MATERIALS Dilet Devices			For dot-:1- 1 00	IEC	anasifisati	Continu 15 Dec. 44	0		
Pilot Devices Enclosure			For detailed 22m	<u> </u>	specifications, see a	Section 15 Page 48	8		
encinglife				POIVE					

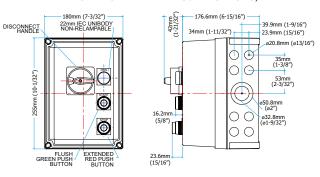
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ENCLOSED DOL STARTER ASSEMBLIES: ENCLOSURE TYPE "G" DIMENSION REF. 1

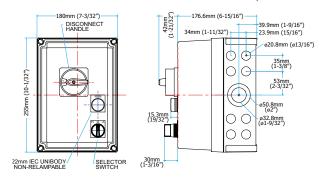
ENCLOSED DOL STARTER
ASSEMBLIES: ENCLOSURE TYPE "H" DIMENSION REF. 2

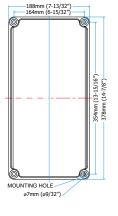


(SHOWN WITH MPCB, CONTACTOR, DISCONNECT SWITCH, PILOT LIGHT AND 2 PUSH BUTTONS)

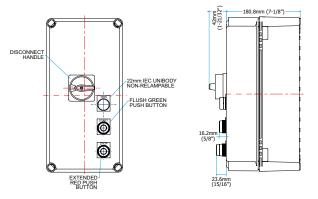


(SHOWN WITH MPCB, CONTACTOR, DISCONNECT SWITCH, PILOT LIGHT AND SELECTOR SWITCH)

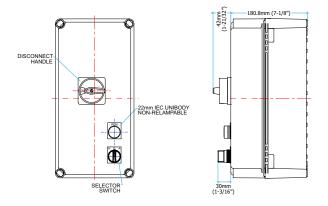




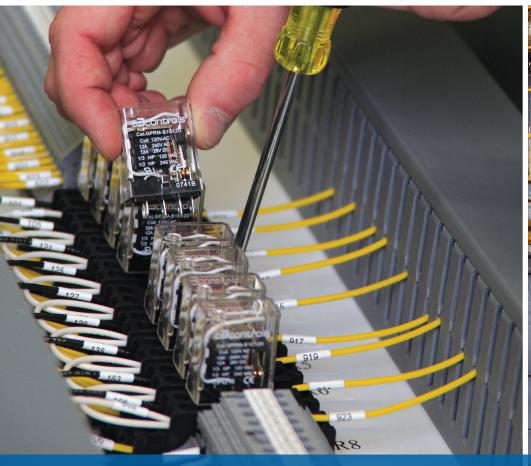
(SHOWN WITH MPCB, CONTACTOR, DISCONNECT SWITCH, PILOT LIGHT AND 2 PUSH BUTTONS)



(SHOWN WITH MPCB, CONTACTOR, DISCONNECT SWITCH, PILOT LIGHT AND SELECTOR SWITCH)



NOTE: All dimensions are approximations, actual size may vary slightly. Visit www.c3controls.com to download CAD drawings.





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