ECX Enclosed Control

3.1 *XT* IEC Power Control

Non-Metallic Enclosure—Contactors and Starters

- Product Description V10-T3-2
- Features and Benefits V10-T3-2
- Standards and Certifications V10-T3-2
- Catalog Number Selection V10-T3-3
- Cover Control Options V10-T3-3
- Product Selection V10-T3-4

Metallic Enclosure—Contactors and Starters

- Product Description V10-T3-8
- Features and Benefits V10-T3-8
- Standards and Certifications V10-T3-8
- Catalog Number Selection V10-T3-9
- Cover Control V10-T3-11
- Product Selection V10-T3-14
- Wiring Diagrams V10-T3-35

XT Compact Combination Starter

- Product Description V10-T3-43
- Features and Benefits V10-T3-43
- Standards and Certifications V10-T3-43
- Additional Reference V10-T3-43
- Catalog Number Selection V10-T3-44
- Product Selection V10-T3-45
- Wiring Diagrams V10-T3-47
- Dimensions V10-T3-51

IEC Non-Metallic Enclosure—Contactors and Starters

Contents

Description	*Page*
Non-Metallic Enclosure—Contactors and Starters	
Catalog Number Selection	**V10-T3-3**
Cover Control Options	**V10-T3-3**
Product Selection	**V10-T3-4**
Metallic Enclosure—Contactors and Starters	**V10-T3-8**
XT Compact Combination Starter	**V10-T3-43**

Non-Metallic Enclosure—Contactors and Starters

Product Description

XT non-metallic 4X starters are the latest addition to our broad line of pre-engineered solutions that make it easy to get an enclosed starter fast! These sturdy, uncomplicated staters are economical, but built to last. Components are all housed in a dust-tight, rain-tight, oil-tight, water-tight and corrosion resistant polycarbonate insulated enclosure. In most cases, *XT* non-metallic 4X starters are available from stock for next day delivery.

Reliable Protection

Each starter features an Eaton *XT* IEC thermal overload relay. Fourteen overload sizes are available to complete the starter, providing adjustable settings for 0.1 to 32 full load amps. Because of its direct mount design, the *XT* relay and resulting stater command a very small footprint.

Clever, Convenient Design to 25 hp

Six different base models (single- and three-phase) are available, ranging from fractional to 25 hp units (at 575 V). This allows you to closely match the starter to your application.

Each starter is equipped with a telescopic base-mount for the pilot device contact blocks. This eliminates all wiring between the cover and starter base, making commissioning and troubleshooting a snap.

Additional Reference

Cover Control	**V10-T3-3**
Dimensions	**Tab 14**
Accessories and Modifications	**Tab 15**
Renewal Parts	**Tab 16**
Technical Data and Specifications	**Tab 17**

Features and Benefits

- Single- and three-phase enclosed starters to 25 hp (at 575 V)
- Rugged IP65 polycarbonate enclosure equivalent to NEMA® 1, 12, 13, 3R and 4X environmental protection
- All starters feature the modern *XT* contactor family from Eaton in your choice of control voltage from 24 Vac to 600 Vac
- Class 10 motor protection is provided by adjustable bimetal overload relays
- Standard starters feature START/STOP double pushbuttons and a RESET selected from our rugged M22 pilot device line
- Other control options include OFF–ON or HAND–0–AUTO selector switches, with or without pilot light
- All starters use electrical operators to energize and de-energize the starter, providing longer component lifespan and the option for two-wire control
- 5 hp starters are only six inches high; 25 hp starters are less than 10 inches high

Standards and Certifications

Note: See **Tab 17** for additional information on standards and certifications that apply to all enclosed control products.

- UL® Listed/CSA®/IEC

Product Configuration Overview

Starter sizes (mm)

- To 5 hp (at 575 V): 160 x 100 x 145 (L x W x D)
- To 20 hp (at 575 V): 200 x 120 x 160 (L x W x D)
- To 25 hp (at 575 V): 240 x 160 x 160 (L x W x D)

Phases

- Available in single- and three-phase

Contactors

- From miniature to 32 amps

Voltages

- 50 Hz: 110 V, 23 V, 415 V
- 60 Hz: 24 V, 120 V, 208 V, 240 V, 480 V, 600 V

Pilot devices

- START/STOP double-pushbutton
- ON–OFF selector switch
- HAND–0–AUTO selector switch

Illumination options

- Red light 85–264 Vac
- Red light 12–30 Vac/Vdc
- Without illumination

Catalog Number Selection

XT IEC Line Non-Metallic Enclosed Control

EC X 09 E 5 A A A -

Design
X = *XT* IEC

Class	Page
09 = Non-combination non-reversing starter	**V10-T3-4**

Size	
Non-Combination Ampere Rating	
B = 7 A	**F** = 18 A
C = 9 A	**G** = 25 A
D = 12 A	**H** = 32 A
E = 15 A	

Enclosure Type/IP Ratings ①
5 = Type 4X—Watertight (non-metallic)/IP66

Coil Voltage	
A = 120 V	**H** = 277 V
B = 240 V	**L** = 380 V/50 Hz
C = 480 V	**Q** = 24 Vdc
D = 600 V	**T** = 24 Vac
E = 208 V	

Cover Control
See table below

Disconnect
A = None

Overload Range
See table below

XTOB Overload Relays for Enclosed *XT*

FLA Ratings	Size B–E 7–15 A	Size F–H 18–32 A
0.1–0.16	**A**	**A**
0.16–0.24	**B**	**B**
0.24–0.4	**C**	**C**
0.4–0.6	**D**	**D**
0.6–1	**E**	**E**
1–1.6	**F**	**F**
1.6–2.4	**G**	**G**
2.4–4	**H**	**H**

FLA Ratings	Size B–E 7–15 A	Size F–H 18–32 A
4–6	**I**	**I**
6–10	**J**	**J**
9–12	**K**	—
10–16	—	**L**
12–16	**L**	—
16–24	—	**M**
24–32	—	**N**

XTOE Electronic Overload Relays for Enclosed *XT*

FLA Ratings	Size B–E 7–15 A	Size F–H 18–32 A
0.33–1.65	**R63/A**	**R63/A**
1–5	**R63/B**	**R63/B**
4–20	**R63/C**	**R63/C**
9–45	—	**R63/D**

Cover Control Options

B **C** **H** **J** **S** **T**

Cover Control Options

Description	Position 9 Control Code
No cover mounted pilot devices	**A**
START/STOP pushbuttons	**B**
With red RUN pilot light	**C**
HAND/OFF/AUTO selector switch	**H**
With red RUN pilot light	**J**
ON/OFF selector switch	**S**
With red RUN pilot light	**T**

Note

① See **Tab 1** for enclosure type/IP rating cross-reference.

Product Selection

CI-K Basic Enclosures

CI-K Basic Enclosures ①②

Dimensions in Inches (mm)

Width	Height	External Depth	Internal Depth	Internal Mounting Type	Pkg. Qty.	Catalog Number
3.94 (100.0)	6.30 (160.0)	3.94 (100.0)	2.87 (73.0)	With mounting rail	1	**CI-K2X-100-TS-NA** ③
			3.11 (79.0)	With mounting plate		**CI-K2X-100-M-NA** ③
		5.71 (145.0)	4.65 (118.0)	With mounting rail		**CI-K2X-145-TS-NA** ③
			4.88 (124.0)	With mounting plate		**CI-K2X-145-M-NA** ③
4.72 (120.0)	7.87 (200.0)	4.92 (125.0)	3.66 (93.0)	With mounting rail	1	**CI-K3X-125-TS-NA** ④
			3.86 (98.0)	With mounting plate		**CI-K3X-125-M-NA** ④
		6.30 (160.0)	5.04 (128.0)	With mounting rail		**CI-K3X-160-TS-NA** ④
			5.24 (133.0)	With mounting plate		**CI-K3X-160-M-NA** ④
6.30 (160.0)	9.45 (240.0)	6.30 (160.0)	5.04 (128.0)	With mounting rail	1	**CI-K4X-160-TS-NA** ④
			5.24 (133.0)	With mounting plate		**CI-K4X-160-M-NA** ④
7.87 (200.0)	11.02 (280.0)	6.30 (160.0)	5.04 (128.0)	With mounting rail	1	**CI-K5X-160-TS-NA** ④
			5.24 (133.0)	With mounting plate		**CI-K5X-160-M-NA** ④

Class ECX09—Non-Metallic Non-Combination Non-Reversing Contactor ONLY

Amps	Maximum hp ⑤ Motor Voltage ⑥	Single-Phase	Three-Phase	Coil Voltage at 60 Hz ⑦	Type 4X/IP66 Catalog Number	Component Catalog Number
Size B						
7	115	1/4	—	120	**ECX09B5AAA**	**XTCE007B10A**
	208	3/4	1-1/2	208	**ECX09B5EAA**	**XTCE007B10E**
	230	1	2	240	**ECX09B5BAA**	**XTCE007B10B**
	380	—	3	380/50 Hz	**ECX09B5LAA**	**XTCE007B10L**
	460	—	3	480	**ECX09B5CAA**	**XTCE007B10C**
	575	—	5	600	**ECX09B5DAA**	**XTCE007B10D**
Size C						
9	115	1/2	—	120	**ECX09C5AAA**	**XTCE009B10A**
	208	1	2	208	**ECX09C5EAA**	**XTCE009B10E**
	230	1-1/2	3	240	**ECX09C5BAA**	**XTCE009B10B**
	380	—	5	380/50 Hz	**ECX09C5LAA**	**XTCE009B10L**
	460	—	5	480	**ECX09C5CAA**	**XTCE009B10C**
	575	—	7-1/2	600	**ECX09C5DAA**	**XTCE009B10D**
Size D						
12	115	1/2	—	120	**ECX09D5AAA**	**XTCE012B10A**
	208	1-1/2	3	208	**ECX09D5EAA**	**XTCE012B10E**
	230	2	3	240	**ECX09D5BAA**	**XTCE012B10B**
	380	—	5	380/50 Hz	**ECX09D5LAA**	**XTCE012B10L**
	460	—	7-1/2	480	**ECX09D5CAA**	**XTCE012B10C**
	575	—	10	600	**ECX09D5DAA**	**XTCE012B10D**
Size E						
15	115	3/4	—	120	**ECX09E5AAA**	**XTCE015B10A**
	208	2	3	208	**ECX09E5EAA**	**XTCE015B10E**
	230	2	3	240	**ECX09E5BAA**	**XTCE015B10B**
	380	—	5	380/50 Hz	**ECX09E5LAA**	**XTCE015B10L**
	460	—	7-1/2	480	**ECX09E5CAA**	**XTCE015B10C**
	575	—	10	600	**ECX09E5DAA**	**XTCE015B10D**

Notes

① Enclosure base RAL 9005, black/enclosure top only RAL 7035. light gray.
② Degree of protection—IEC: IP65; UL/CSA: Type 1, 3R, 4X, 12, 13—indoor and outdoor use.
③ CI-K2X_: 4 x 1/2 inch knockouts.
④ CI-K3X_, CI-K4X_, CI-K5X_: Smooth overall with sharp corners.
⑤ 1 hp = 0.746 kW.
⑥ Contact factory for other voltage options.
⑦ Voltage is listed at 60 Hz unless otherwise noted. Other voltages available upon request.

Class ECX09—Non-Metallic Non-Combination Non-Reversing Contactor ONLY, continued

Amps	Maximum hp ① Motor Voltage ②	Single-Phase	Three-Phase	Coil Voltage at 60 Hz ③	Type 4X/IP66 Catalog Number	Component Catalog Number
Size F						
18	115	2	—	120	**ECX09F5AAA**	**XTCE018C10A**
	208	2	5	208	**ECX09F5EAA**	**XTCE018C10E**
	230	3	5	240	**ECX09F5BAA**	**XTCE018C10B**
	380	—	7-1/2	380/50 Hz	**ECX09F5LAA**	**XTCE018C10L**
	460	—	10	480	**ECX09F5CAA**	**XTCE018C10C**
	575	—	15	600	**ECX09F5DAA**	**XTCE018C10D**
Size G						
25	115	2	—	120	**ECX09G5AAA**	**XTCE025C10A**
	208	3	7-1/2	208	**ECX09G5EAA**	**XTCE025C10E**
	230	5	7-1/2	240	**ECX09G5BAA**	**XTCE025C10B**
	380	—	10	380/50 Hz	**ECX09G5LAA**	**XTCE025C10L**
	460	—	15	480	**ECX09G5CAA**	**XTCE025C10C**
	575	—	20	600	**ECX09G5DAA**	**XTCE025C10D**
Size H						
32	115	3	—	120	**ECX09H5AAA**	**XTCE032C10A**
	208	5	10	208	**ECX09H5EAA**	**XTCE032C10E**
	230	5	10	240	**ECX09H5BAA**	**XTCE032C10B**
	380	—	15	380/50 Hz	**ECX09H5LAA**	**XTCE032C10L**
	460	—	20	480	**ECX09H5CAA**	**XTCE032C10C**
	575	—	25	600	**ECX09H5DAA**	**XTCE032C10D**

Notes

① 1 hp = 0.746 kW.

② Contact factory for other voltage options.

③ Voltage is listed at 60 Hz unless otherwise noted. Other voltages available upon request.

Class ECX09—Non-Metallic Non-Combination Non-Reversing Starter

Amps	Maximum hp ① Motor Voltage ②	Single-Phase	Three-Phase	Coil Voltage at 60 Hz ③	Type 4X/IP66 Catalog Number ④	Component Catalog Number ⑤
Size B						
7	115	1/4	—	120	**ECX09B5AAA-_**	**XTAE007B10A_**
	208	3/4	1-1/2	208	**ECX09B5EAA-_**	**XTAE007B10E_**
	230	1	2	240	**ECX09B5BAA-_**	**XTAE007B10B_**
	380	—	3	380/50 Hz	**ECX09B5LAA-_**	**XTAE007B10L_**
	460	—	3	480	**ECX09B5CAA-_**	**XTAE007B10C_**
	575	—	5	600	**ECX09B5DAA-_**	**XTAE007B10D_**
Size C						
9	115	1/2	—	120	**ECX09C5AAA-_**	**XTAE009B10A_**
	208	1	2	208	**ECX09C5EAA-_**	**XTAE009B10E_**
	230	1-1/2	3	240	**ECX09C5BAA-_**	**XTAE009B10B_**
	380	—	5	380/50 Hz	**ECX09C5LAA-_**	**XTAE009B10L_**
	460	—	5	480	**ECX09C5CAA-_**	**XTAE009B10C_**
	575	—	7-1/2	600	**ECX09C5DAA-_**	**XTAE009B10D_**
Size D						
12	115	1/2	—	120	**ECX09D5AAA-_**	**XTAE012B10A_**
	208	1-1/2	3	208	**ECX09D5EAA-_**	**XTAE012B10E_**
	230	2	3	240	**ECX09D5BAA-_**	**XTAE012B10B_**
	380	—	5	380/50 Hz	**ECX09D5LAA-_**	**XTAE012B10L_**
	460	—	7-1/2	480	**ECX09D5CAA-_**	**XTAE012B10C_**
	575	—	10	600	**ECX09D5DAA-_**	**XTAE012B10D_**
Size E						
15	115	3/4	—	120	**ECX09E5AAA-_**	**XTAE015B10A_**
	208	2	3	208	**ECX09E5EAA-_**	**XTAE015B10E_**
	230	2	3	240	**ECX09E5BAA-_**	**XTAE015B10B_**
	380	—	5	380/50 Hz	**ECX09E5LAA-_**	**XTAE015B10L_**
	460	—	7-1/2	480	**ECX09E5CAA-_**	**XTAE015B10C_**
	575	—	10	600	**ECX09E5DAA-_**	**XTAE015B10D_**

Notes

① 1 hp = 0.746 kW.

② Contact factory for other voltage options.

③ Voltage is listed at 60 Hz unless otherwise noted. Other voltages available upon request.

④ Select proper "XTOB" or "XTOE" overload amperage range as per motor FLA, see **Page V10-T3-3**.

⑤ For complete component Catalog Number, see **Volume 5—Motor Control and Protection, CA08100005E, Tab 27**.

Class ECX09—Non-Metallic Non-Combination Non-Reversing Starter, continued

Amps	Maximum hp ① Motor Voltage ②	Single-Phase	Three-Phase	Coil Voltage at 60 Hz ③	Type 4X/IP66 Catalog Number ④	Component Catalog Number ⑤
Size F						
18	115	2	—	120	**ECX09F5AAA-_**	**XTAE018C10A_**
	208	2	5	208	**ECX09F5EAA-_**	**XTAE018C10E_**
	230	3	5	240	**ECX09F5BAA-_**	**XTAE018C10B_**
	380	—	7-1/2	380/50 Hz	**ECX09F5LAA-_**	**XTAE018C10L_**
	460	—	10	480	**ECX09F5CAA-_**	**XTAE018C10C_**
	575	—	15	600	**ECX09F5DAA-_**	**XTAE018C10D_**
Size G						
25	115	2	—	120	**ECX09G5AAA-_**	**XTAE025C10A_**
	208	3	7-1/2	208	**ECX09G5EAA-_**	**XTAE025C10E_**
	230	5	7-1/2	240	**ECX09G5BAA-_**	**XTAE025C10B_**
	380	—	10	380/50 Hz	**ECX09G5LAA-_**	**XTAE025C10L_**
	460	—	15	480	**ECX09G5CAA-_**	**XTAE025C10C_**
	575	—	20	600	**ECX09G5DAA-_**	**XTAE025C10D_**
Size H						
32	115	3	—	120	**ECX09H5AAA-_**	**XTAE032C10A_**
	208	5	10	208	**ECX09H5EAA-_**	**XTAE032C10E_**
	230	5	10	240	**ECX09H5BAA-_**	**XTAE032C10B_**
	380	—	15	380/50 Hz	**ECX09H5LAA-_**	**XTAE032C10L_**
	460	—	20	480	**ECX09H5CAA-_**	**XTAE032C10C_**
	575	—	25	600	**ECX09H5DAA-_**	**XTAE032C10D_**

Notes

① 1 hp = 0.746 kW.
② Contact factory for other voltage options.
③ Voltage is listed at 60 Hz unless otherwise noted. Other voltages available upon request.
④ Select proper "XTOB" or "XTOE" overload amperage range as per motor FLA, see **Page V10-T3-3**.
⑤ For complete component Catalog Number, see **Volume 5—Motor Control and Protection, CA08100005E, Tab 27**.

IEC Metallic Enclosure—Contactors and Starters

3

Contents

Description	*Page*
Non-Metallic Enclosure—Contactors and Starters . .	**V10-T3-2**
Metallic Enclosure—Contactors and Starters	
Catalog Number Selection	**V10-T3-9**
Product Selection	
Non-Combination Starters	**V10-T3-14**
Combination Starters	**V10-T3-23**
Wiring Diagrams	**V10-T3-35**
XT Compact Combination Starter	**V10-T3-43**

Metallic Enclosure—Contactors and Starters

Product Description

Eaton's *XT* line includes IEC contactors, starters and combination motor controllers (CMCs). Designed to meet international standards, the enclosed control *XT* line (ECX), carries UL and cUL® certifications.

Features and Benefits

- AC control from 12 V to 600 V 50/60 Hz
- DC control from 24 V to 220 V
- Available with screw or spring cage terminals
- Reversing or non-reversing contactors and starters
- AC-3 contactor ratings to 1000 A and AC-1 contactor ratings to 2000 A
- Non-reversing starters to 650 A
- Panel or DIN rail mounting to 65 A
- IP20 finger and back-of-hand proof
- Large ambient temperature range, –25 °C to +50 °C [–13 °F to +122 °F]
- AC and DC controlled contactors in the same compact frame
- Low power consumption DC coils
- Built-in NO or NC auxiliary contacts to 32 A
- Plug-in accessories for reduced installation time
- Types 1 (IP23), 4 (IP66), 4X (IP66), 12 (IP65) and 3R (IP32)
- Circuit breakers, fused, non-fused and non-combination designs available
- Opaque (standard) or clear covers available on non-metallic Halyester enclosure option

Additional Reference

Dimensions	**Tab 14**
Accessories and Modifications	**Tab 15**
Renewal Parts	**Tab 16**
Technical Data and Specifications	**Tab 17**

Standards and Certifications

Note: See **Tab 17** for additional information on standards and certifications that apply to all enclosed control products.

- Fusible—with Class J fuses
  - UL Listed
  - cUL Listed ①
- Circuit Breaker HMCP/E
  - UL Listed
  - cUL Listed ①

Short-Circuit Ratings

- Fused, non-fused
  - 10 kAIC at 600 V
- HMCP
  - 0–10 hp 15 kAIC at 600 V
  - 15–125 hp 25 kAIC at 600 V
- Non-combination
  - 0–1 hp 1 kAIC at 600 V
  - 1.5–50 hp 5 kAIC at 600 V
  - 50–200 hp 10 kAIC at 600 V

Note

① cUL Listing indicates appropriate CSA standard investigation.

Catalog Number Selection

XT IEC Line Metallic Enclosed Control

EC X 25 E 5 A A A - __ __

Design
X = *XT* IEC

Modification Codes
See **Tab 15**

Overload Range
See table below

Class		Page
09 =	Non-combination non-reversing starter	**V10-T3-14**
10 =	Non-combination reversing starter	**V10-T3-17**
11 =	Non-combination non-reversing starter with CPT	**V10-T3-20**
19 =	Combination non-reversing starter—fusible/non-fusible disconnect	**V10-T3-23**
20 =	Combination reversing starter—fusible/non-fusible disconnect	**V10-T3-26**
25 =	Combination non-reversing starter—circuit breaker	**V10-T3-29**
26 =	Combination reversing starter—circuit breaker	**V10-T3-32**

Disconnect Fuse Clip Ratings

A =	None
C =	30 A J
E =	60 A J
G =	100 A J

Circuit Breaker Ratings

A =	None	**F** =	50 A
B =	3 A	**W** =	70 A
C =	7 A	**G** =	100 A
D =	15 A	**H** =	150 A
E =	30 A	**J** =	250 A

Cover Control
Type 1 non-comb. (NEW BOX 1 only) starters see **Page V10-T3-11**
Type 1 non-comb. starters see **Page V10-T3-12**
All other starters see **Page V10-T3-14**

Size

Combination (Class 16–74)	Non-Combination (Class 09–11) Ampere Rating (UL 600 V)	
IEC Size **B**–**Q**	**B** = 7 A	**J** = 40 A
	C = 9 A	**K** = 50 A
	D = 12 A	**L** = 65 A
	E = 15 A	**M** = 80 A
	F = 18 A	**N** = 95 A
	G = 25 A	**P** = 115 A
	H = 32 A	**Q** = 150 A

Enclosure Type/IP Ratings ①

1 =	Type 1—General purpose/IP23
3 =	Type 4—Painted steel/IP66
4 =	Type 4X—Watertight (304-Grade stainless steel)/IP66
5 =	Type 4X—Watertight (non-metallic)/IP66
8 =	Type 12—Dust-tight/IP65

Coil Voltage

A =	120 V	**H** =	277 V
B =	240 V	**L** =	380 V / 50 Hz
C =	480 V	**Q** =	24 Vdc
D =	600 V	**T** =	24 Vac
E =	208 V		

XTOB Overload Relays for Enclosed *XT*

FLA Ratings	Size B–E 7–15 A	Size F–H 18–32 A	Size J–L 40–65 A	Size M–N 80–95 A	Size P–Q 115–150 A
0.1–0.16	**A**	**A**	—	—	—
0.16–0.24	**B**	**B**	—	—	—
0.24–0.4	**C**	**C**	—	—	—
0.4–0.6	**D**	**D**	—	—	—
0.6–1	**E**	**E**	—	—	—
1–1.6	**F**	**F**	—	—	—
1.6–2.4	**G**	**G**	—	—	—
2.4–4	**H**	**H**	—	—	—
4–6	**I**	**I**	—	—	—
6–10	**J**	**J**	**J**	—	—
9–12	**K**	—	—	—	—
12–16	**L** ②	**L**	**L**	—	—

FLA Ratings	Size B–E 7–15 A	Size F–H 18–32 A	Size J–L 40–65 A	Size M–N 80–95 A	Size P–Q 115–150 A
16–24	—	**M**	**M**	—	—
24–32	—	**N**	—	—	—
24–40	—	—	**P**	—	—
25–35	—	—	—	**S**	**S**
35–50	—	—	—	**T**	**T**
40–57	—	—	**Q**	—	—
50–65	—	—	**R**	—	—
50–70	—	—	—	**U**	**U**
70–100	—	—	—	**V**	**V**
95–125	—	—	—	—	**W**
120–150	—	—	—	—	**X**

Notes
① See **Tab 1** for enclosure type/IP rating cross-reference.
② Size B–E is 10–16 A.

C440 Solid-State Overload Modifications

Reliability and Improved Uptime

- C440 provides the users with peace of mind knowing that their assets are protected with the highest level of motor protection and communication capability in its class
- Extends the life of plant assets with selectable motor protection features such as trip class, phase unbalance and ground fault
- Protects against unnecessary downtime by discovering changes in your system (line/load) with remote monitoring capabilities
- Status LED provides added assurance that valuable assets are protected by indicating the overload operational status

Flexibility

- Improves return on investment by reducing inventory carrying costs with wide FLA adjustment (5:1) and selectable trip class
- Design incorporates built-in ground fault protection thus eliminating the need for separate CTs and modules
- Flexible communication with optional I/O enables easy integration into plant management systems for remote monitoring and control

Monitoring Capabilities

- Individual phase currents rms
- Average three-phase current rms
- Thermal memory
- Fault indication (overload, phase loss, phase unbalance, ground fault)

Safety

- IP20 rated terminal blocks
- Available in Eaton's industry-leading FlashGard MCCs
- Tested to the highest industry standards such as UL, CSA, CE and IEC
- RoHS compliant

For solid-state overload enclosed control, add R63 or R64 modification code after the base Catalog Number. (Example, ECX09G1AAA-**R63**/B).

Modification	IEC Size	NEMA Size	Full Load Current Adjustment Range (A)	Three-Phase without Ground Fault Auto/Manual Reset Overload Selectable Class 10/20/30	Three-Phase with Ground Fault Auto/Manual Reset Overload Selectable Class 10/20/30
Solid-state electronic overload relay ①	B and C	00	0.33–1.65 ②	**R63/A**	**R64/A**
			1–5	**R63/B**	**R64/B**
			4–20	**R63/C**	**R64/C**
	C and D	0 and 1	0.33–1.65 ②	**R63/A**	**R64/A**
			1–5	**R63/B**	**R64/B**
			4–20	**R63/C**	**R64/C**
			9–45	**R63/D**	**R64/D**
	D	2	9–45	**R63/D**	**R64/D**
	D, F and G	3	20–100	**R63/E**	**R64/E**
	G	4	28–140	**R63/F**	**R64/F**
	N/A	5	60–300	**R63/G**	**R64/G**
	N/A	6	120–600	**R63/H**	**R64/H**

Notes

① Features:
- Self-powered
- Phase loss protection
- Current adjustment knob
- ±1% repeat accuracy
- 1NO and 1NC isolated contacts

② Not UL Listed.

Cover Control

Product Selection

Type 1 Non-Combination Cover Control (Box 1 and Box 2 Only)

- Cover control for non-combination starters uses M22 style devices as standard
- Pushbuttons are momentary type
- Field convertible selector switches from momentary to maintained operation and vice versa
- Cover control kits include hardware, M22 pushbuttons, bracket and pre-wired wire harnesses
- See Volume 7, Tab 1, for more details on M22 pushbuttons

Type 1 Non-Combination Cover Control (Box 1 and Box 2 Only)

Box 1 offering includes metallic enclosures with starters up to 32 A.
Box 2 offering includes metallic enclosures with starters up to 65 A.

Description	Factory Installed Flange Control Position 9 Cover Control Code	Field Installation Kits Catalog Number
Non-Reversing		
No cover mounted pilot devices	**A**	—
STOP/START oval pushbuttons	**B**	**C600M1**
With red RUN pilot light	**C**	**C600M101_** ①
With red RUN/green OFF lights	**D**	**C600M102_** ①
OFF/ON oval pushbuttons	**E**	**C600M2**
With red RUN pilot light	**F**	**C600M201_** ①
With red RUN/green OFF lights	**G**	**C600M202_** ①
STOP/START selector switch	**S**	**C600M13**
With red RUN pilot light	**T**	**C600M131_** ①
With red RUN/green OFF lights	**U**	**C600M132_** ①
OFF/ON selector switch	**V**	**C600M14**
With red RUN pilot light	**W**	**C600M141_** ①
With red RUN/green OFF lights	**X**	**C600M142_** ①
HAND/OFF/AUTO selector switch	**H**	**C600M12**
With red RUN pilot light	**J**	**C600M121_** ①
With red RUN/green OFF lights	**K**	**C600M122_** ①
Green START pushbutton	**L**	**C600M3**
Red STOP pushbutton	**Y**	**C600M7** ①
Green ON pushbutton	**M**	**C600M4**
Red OFF pushbutton	**N**	**C600M5**
Red RUN pilot light	**P**	**C600M9_** ①
Green OFF pilot light	**Q**	**C600M10_** ①
Red RUN/green OFF lights	**R**	**C600M11_** ①
TEST/OFF/AUTO selector switch	—	**C600M8**
Reversing		
UP/STOP/DOWN selector switch	**E**	**C600M27**
With 2 red pilot lights	**F**	**C600M271_**
REV/STOP/FWD selector switch	**H**	**C600M15**
With 2 red pilot lights	**J**	**C600M151_**
Two red pilot lights (labeled FWD, REV)	**P**	**C600M28_**
Green OFF pilot light	**Q**	**C600M10_**

Note

① Add code letter from the table below to catalog number for voltage. Example: C600M101**A**.

Rating	Code Letter
85–264 Vac	**A**
480 Vac	**C**
12–30 Vac/Vdc	**T**

Type 1 Non-Combination Cover Control (Box 3 and Larger Enclosures Only)

- Cover control for combination starters uses 10250T style devices as standard
- Selector switches are maintained with lever operators
- Pushbuttons are momentary type with extended pushbutton
- The kit includes hardware and connecting wires (where possible)
- For factory installed control devices other than shown below, refer to modification codes, **Tab 15**

Type 1 Cover Control

Type 1 Non-Combination Cover Control (Box 3 and Larger Enclosures Only)

Box 3 and larger enclosure offering includes metallic enclosures with starters larger than 65 A.

Description	Factory Installed Flange Control ① Position 9 Cover Control Code	Field Installation Kits Catalog Number
Non-Reversing		
No cover mounted pilot devices	**A**	**C400GK0**
STOP/START pushbuttons	**B**	**C400GK1**
With red RUN pilot light	**C**	**C400GK12** ②
With red RUN/green OFF lights	**D**	**C400GK16** ②
HAND/OFF/AUTO selector switch	**H**	**C400GK3**
With red RUN pilot light	**J**	**C400GK32** ②
With red RUN/green OFF lights	**K**	**C400GK36** ②
Red RUN pilot light	**P**	**C400GK42** ②
Green OFF pilot light	**Q**	**C400GK41** ②
Red RUN/green OFF pilot lights	**R**	**C400GK46** ②
Reversing		
No cover mounted pilot devices	**A**	**C400GK0**
FOR/REV/STOP pushbuttons	**B**	**C400GR1**
With two red pilot lights	**C**	**C400GR14** ②
UP/STOP/DOWN pushbuttons	**E**	**C400GR2**
With two red pilot lights	**F**	**C400GR24** ②
Two red pilot lights	**P**	**C400GK44** ②
One green pilot light	**Q**	**C400GK41** ②

Notes

① For more available factory installed flange control, see **Page V10-T3-11**.

② Add code letter from the table below to catalog number for voltage—kits only. Example: C400GK0**B**.

Rating	Code Letter	Rating	Code Letter	Rating	Code Letter
120 V 60 Hz	**A**	277 V 60 Hz	**H**	480 V 60 Hz	**C**
208 V 60 Hz	**E**	380 V 50 Hz	**L**	600 V 60 Hz	**D**
240 V 60 Hz	**B**				

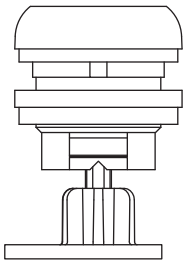
Type 1 Non-Combination Empty Enclosure (Box 1 and Box 2 Only)

Box 1 and Box 2 empty enclosures are used for all Type 1 Non-Combination IEC contactors and starters through size 2. While the enclosure is universal, the length of the reset rod differs based on the size of the starter. The interchangeable reset rod provides everything needed to install the correct reset rod length, including the reset rod itself, a protective shroud, a paddle and a reset button and nut.

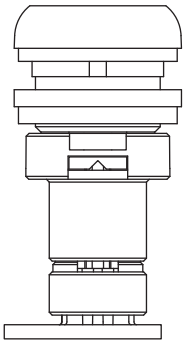
Empty Enclosure Stocking Needs	Catalog Number
Empty Box 1 enclosure	**C899B001**
Empty Box 2 enclosure	**C899B2001**
Reset rod kit	**RESET001**

The table below shows which reset rod is used with each starter or contactor.

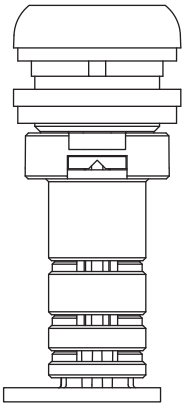
Starter or Contactor	Reset Rod Length
IEC Frame Size B and C, SSOL	0.74-inch reset
IEC Frame Size B, Bi-Metallic Overload	1.74-inch reset
IEC Frame Size C, Bi-Metallic Overload	1.30-inch reset
IEC Frame Size D, Bi-Metallic Overload	1.45-inch reset



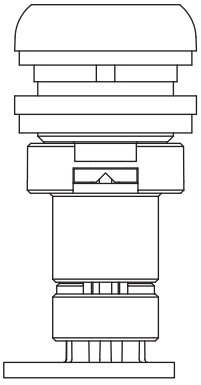
IEC Frame Size B and C, SSOL—0.74-inch reset



IEC Frame Size C, Bi-Metallic Overload—1.30-inch reset



IEC Frame Size B, Bi-Metallic Overload —1.74-inch reset



IEC Frame Size D, Bi-Metallic Overload —1.45-inch reset

Product Selection

Non-Combination Starters

Class ECX09—Non-Combination Non-Reversing Starter

Amps	Maximum hp ① Motor Voltage ②	Single-Phase	Three-Phase	Coil Voltage at 60 Hz ③	Type 1/IP23 Catalog Number ④	Type 4X/IP66 ⑤ Catalog Number ④	Type 12/IP65 Catalog Number ④	Component Catalog Number ④
Size B								
7	115	1/4	—	120	**ECX09B1AAA-_**	**ECX09B4AAA-_**	**ECX09B8AAA-_**	**XTAE007B10A_**
	208	3/4	1-1/2	208	**ECX09B1EAA-_**	**ECX09B4EAA-_**	**ECX09B8EAA-_**	**XTAE007B10E_**
	230	1	2	240	**ECX09B1BAA-_**	**ECX09B4BAA-_**	**ECX09B8BAA-_**	**XTAE007B10B_**
	380	—	3	380/50 Hz	**ECX09B1LAA-_**	**ECX09B4LAA-_**	**ECX09B8LAA-_**	**XTAE007B10L_**
	460	—	3	480	**ECX09B1CAA-_**	**ECX09B4CAA-_**	**ECX09B8CAA-_**	**XTAE007B10C_**
	575	—	5	600	**ECX09B1DAA-_**	**ECX09B4DAA-_**	**ECX09B8DAA-_**	**XTAE007B10D_**
Size C								
9	115	1/2	—	120	**ECX09C1AAA-_**	**ECX09C4AAA-_**	**ECX09C8AAA-_**	**XTAE009B10A_**
	208	1	2	208	**ECX09C1EAA-_**	**ECX09C4EAA-_**	**ECX09C8EAA-_**	**XTAE009B10E_**
	230	1-1/2	3	240	**ECX09C1BAA-_**	**ECX09C4BAA-_**	**ECX09C8BAA-_**	**XTAE009B10B_**
	380	—	5	380/50 Hz	**ECX09C1LAA-_**	**ECX09C4LAA-_**	**ECX09C8LAA-_**	**XTAE009B10L_**
	460	—	5	480	**ECX09C1CAA-_**	**ECX09C4CAA-_**	**ECX09C8CAA-_**	**XTAE009B10C_**
	575	—	7-1/2	600	**ECX09C1DAA-_**	**ECX09C4DAA-_**	**ECX09C8DAA-_**	**XTAE009B10D_**
Size D								
12	115	1/2	—	120	**ECX09D1AAA-_**	**ECX09D4AAA-_**	**ECX09D8AAA-_**	**XTAE012B10A_**
	208	1-1/2	3	208	**ECX09D1EAA-_**	**ECX09D4EAA-_**	**ECX09D8EAA-_**	**XTAE012B10E_**
	230	2	3	240	**ECX09D1BAA-_**	**ECX09D4BAA-_**	**ECX09D8BAA-_**	**XTAE012B10B_**
	380	—	5	380/50 Hz	**ECX09D1LAA-_**	**ECX09D4LAA-_**	**ECX09D8LAA-_**	**XTAE012B10L_**
	460	—	7-1/2	480	**ECX09D1CAA-_**	**ECX09D4CAA-_**	**ECX09D8CAA-_**	**XTAE012B10C_**
	575	—	10	600	**ECX09D1DAA-_**	**ECX09D4DAA-_**	**ECX09D8DAA-_**	**XTAE012B10D_**
Size E								
15	115	3/4	—	120	**ECX09E1AAA-_**	**ECX09E4AAA-_**	**ECX09E8AAA-_**	**XTAE015B10A_**
	208	2	3	208	**ECX09E1EAA-_**	**ECX09E4EAA-_**	**ECX09E8EAA-_**	**XTAE015B10E_**
	230	2	3	240	**ECX09E1BAA-_**	**ECX09E4BAA-_**	**ECX09E8BAA-_**	**XTAE015B10B_**
	380	—	5	380/50 Hz	**ECX09E1LAA-_**	**ECX09E4LAA-_**	**ECX09E8LAA-_**	**XTAE015B10L_**
	460	—	7-1/2	480	**ECX09E1CAA-_**	**ECX09E4CAA-_**	**ECX09E8CAA-_**	**XTAE015B10C_**
	575	—	10	600	**ECX09E1DAA-_**	**ECX09E4DAA-_**	**ECX09E8DAA-_**	**XTAE015B10D_**
Size F								
18	115	2	—	120	**ECX09F1AAA-_**	**ECX09F4AAA-_**	**ECX09F8AAA-_**	**XTAE018C10A_**
	208	2	5	208	**ECX09F1EAA-_**	**ECX09F4EAA-_**	**ECX09F8EAA-_**	**XTAE018C10E_**
	230	3	5	240	**ECX09F1BAA-_**	**ECX09F4BAA-_**	**ECX09F8BAA-_**	**XTAE018C10B_**
	380	—	7-1/2	380/50 Hz	**ECX09F1LAA-_**	**ECX09F4LAA-_**	**ECX09F8LAA-_**	**XTAE018C10L_**
	460	—	10	480	**ECX09F1CAA-_**	**ECX09F4CAA-_**	**ECX09F8CAA-_**	**XTAE018C10C_**
	575	—	15	600	**ECX09F1DAA-_**	**ECX09F4DAA-_**	**ECX09F8DAA-_**	**XTAE018C10D_**

Notes

① 1 hp = 0.746 kW.

② Contact factory for other voltage options.

③ Voltage is listed at 60 Hz unless otherwise noted. Other voltages available upon request.

④ Select proper "XTOB" overload amperage range as per motor FLA, see **Page V10-T3-9**.

⑤ The catalog numbers listed in the Type 4X column are for Type 4X 304-Grade stainless steel, as indicated by the **seventh** digit.
Example: ECX09B**4**AAA-_. To order Type 4X 316-Grade stainless steel, change that digit to **9**. To order Type 4 painted steel, change that digit to **3**.
To order non-metallic, change that digit to **5**. For details on these alternate enclosures, see **Tab 13**.

Class ECX09—Non-Combination Non-Reversing Starter, continued

Amps	Maximum hp ① Motor Voltage ②	Single-Phase	Three-Phase	Coil Voltage at 60 Hz ③	Type 1/IP23 Catalog Number ④	Type 4X/IP66 ⑤ Catalog Number ④	Type 12/IP65 Catalog Number ④	Component Catalog Number ④
Size G								
25	115	2	—	120	**ECX09G1AAA-_**	**ECX09G4AAA-_**	**ECX09G8AAA-_**	**XTAE025C10A_**
	208	3	7-1/2	208	**ECX09G1EAA-_**	**ECX09G4EAA-_**	**ECX09G8EAA-_**	**XTAE025C10E_**
	230	5	7-1/2	240	**ECX09G1BAA-_**	**ECX09G4BAA-_**	**ECX09G8BAA-_**	**XTAE025C10B_**
	380	—	10	380/50 Hz	**ECX09G1LAA-_**	**ECX09G4LAA-_**	**ECX09G8LAA-_**	**XTAE025C10L_**
	460	—	15	480	**ECX09G1CAA-_**	**ECX09G4CAA-_**	**ECX09G8CAA-_**	**XTAE025C10C_**
	575	—	20	600	**ECX09G1DAA-_**	**ECX09G4DAA-_**	**ECX09G8DAA-_**	**XTAE025C10D_**
Size H								
32	115	3	—	120	**ECX09H1AAA-_**	**ECX09H4AAA-_**	**ECX09H8AAA-_**	**XTAE032C10A_**
	208	5	10	208	**ECX09H1EAA-_**	**ECX09H4EAA-_**	**ECX09H8EAA-_**	**XTAE032C10E_**
	230	5	10	240	**ECX09H1BAA-_**	**ECX09H4BAA-_**	**ECX09H8BAA-_**	**XTAE032C10B_**
	380	—	15	380/50 Hz	**ECX09H1LAA-_**	**ECX09H4LAA-_**	**ECX09H8LAA-_**	**XTAE032C10L_**
	460	—	20	480	**ECX09H1CAA-_**	**ECX09H4CAA-_**	**ECX09H8CAA-_**	**XTAE032C10C_**
	575	—	25	600	**ECX09H1DAA-_**	**ECX09H4DAA-_**	**ECX09H8DAA-_**	**XTAE032C10D_**
Size J								
40	115	3	—	120	**ECX09J1AAA-_**	**ECX09J4AAA-_**	**ECX09J8AAA-_**	**XTAE040D00A_**
	208	5	10	208	**ECX09J1EAA-_**	**ECX09J4EAA-_**	**ECX09J8EAA-_**	**XTAE040D00E_**
	230	7-1/2	15	240	**ECX09J1BAA-_**	**ECX09J4BAA-_**	**ECX09J8BAA-_**	**XTAE040D00D_**
	380	—	15	380/50 Hz	**ECX09J1LAA-_**	**ECX09J4LAA-_**	**ECX09J8LAA-_**	**XTAE040D00L_**
	460	—	30	480	**ECX09J1CAA-_**	**ECX09J4CAA-_**	**ECX09J8CAA-_**	**XTAE040D00C_**
	575	—	40	600	**ECX09J1DAA-_**	**ECX09J4DAA-_**	**ECX09J8DAA-_**	**XTAE040D00D_**
Size K								
50	115	3	—	120	**ECX09K1AAA-_**	**ECX09K4AAA-_**	**ECX09K8AAA-_**	**XTAE050D00A_**
	208	7-1/2	15	208	**ECX09K1EAA-_**	**ECX09K4EAA-_**	**ECX09K8EAA-_**	**XTAE050D00E_**
	230	10	20	240	**ECX09K1BAA-_**	**ECX09K4BAA-_**	**ECX09K8BAA-_**	**XTAE050D00B_**
	380	—	20	380/50 Hz	**ECX09K1LAA-_**	**ECX09K4LAA-_**	**ECX09K8LAA-_**	**XTAE050D00L_**
	460	—	40	480	**ECX09K1CAA-_**	**ECX09K4CAA-_**	**ECX09K8CAA-_**	**XTAE050D00C_**
	575	—	50	600	**ECX09K1DAA-_**	**ECX09K4DAA-_**	**ECX09K8DAA-_**	**XTAE050D00D_**
Size L								
65	115	5	—	120	**ECX09L1AAA-_**	**ECX09L4AAA-_**	**ECX09L8AAA-_**	**XTAE065D00A_**
	208	10	20	208	**ECX09L1EAA-_**	**ECX09L4EAA-_**	**ECX09L8EAA-_**	**XTAE065D00E_**
	230	15	25	240	**ECX09L1BAA-_**	**ECX09L4BAA-_**	**ECX09L8BAA-_**	**XTAE065D00B_**
	380	—	30	380/50 Hz	**ECX09L1LAA-_**	**ECX09L4LAA-_**	**ECX09L8LAA-_**	**XTAE065D00L_**
	460	—	50	480	**ECX09L1CAA-_**	**ECX09L4CAA-_**	**ECX09L8CAA-_**	**XTAE065D00C_**
	575	—	60	600	**ECX09L1DAA-_**	**ECX09L4DAA-_**	**ECX09L8DAA-_**	**XTAE065D00D_**

Notes

① 1 hp = 0.746 kW.

② Contact factory for other voltage options.

③ Voltage is listed at 60 Hz unless otherwise noted. Other voltages available upon request.

④ Select proper "XTOB" overload amperage range as per motor FLA, see **Page V10-T3-9**.

⑤ The catalog numbers listed in the Type 4X column are for Type 4X 304-Grade stainless steel, as indicated by the **seventh** digit.
Example: ECX09G**4**AAA-_. To order Type 4X 316-Grade stainless steel, change that digit to **9**. To order Type 4 painted steel, change that digit to **3**.
To order non-metallic, change that digit to **5**. For details on these alternate enclosures, see **Tab 13**.

Class ECX09—Non-Combination Non-Reversing Starter, continued

Amps	Maximum hp ① Motor Voltage ②	Single-Phase	Three-Phase	Coil Voltage at 60 Hz ③	Type 1/IP23 Catalog Number ④	Type 4X/IP66 ⑤ Catalog Number ④	Type 12/IP65 Catalog Number ④	Component Catalog Number ④
Size M								
80	115	7-1/2	—	120	**ECX09M1AAA-_**	**ECX09M4AAA-_**	**ECX09M8AAA-_**	**XTAE080F00A_**
	208	15	25	208	**ECX09M1EAA-_**	**ECX09M4EAA-_**	**ECX09M8EAA-_**	**XTAE080F00E_**
	230	15	30	240	**ECX09M1BAA-_**	**ECX09M4BAA-_**	**ECX09M8BAA-_**	**XTAE080F00B_**
	380	—	50	380/50 Hz	**ECX09M1LAA-_**	**ECX09M4LAA-_**	**ECX09M8LAA-_**	**XTAE080F00L_**
	460	—	60	480	**ECX09M1CAA-_**	**ECX09M4CAA-_**	**ECX09M8CAA-_**	**XTAE080F00C_**
	575	—	75	600	**ECX09M1DAA-_**	**ECX09M4DAA-_**	**ECX09M8DAA-_**	**XTAE080F00D_**
Size N								
95	115	7-1/2	—	120	**ECX09N1AAA-_**	**ECX09N4AAA-_**	**ECX09N8AAA-_**	**XTAE095F00A_**
	208	15	25	208	**ECX09N1EAA-_**	**ECX09N4EAA-_**	**ECX09N8EAA-_**	**XTAE095F00E_**
	230	15	40	240	**ECX09N1BAA-_**	**ECX09N4BAA-_**	**ECX09N8BAA-_**	**XTAE095F00B_**
	380	—	60	380/50 Hz	**ECX09N1LAA-_**	**ECX09N4LAA-_**	**ECX09N8LAA-_**	**XTAE095F00L_**
	460	—	75	480	**ECX09N1CAA-_**	**ECX09N4CAA-_**	**ECX09N8CAA-_**	**XTAE095F00C_**
	575	—	100	600	**ECX09N1DAA-_**	**ECX09N4DAA-_**	**ECX09N8DAA-_**	**XTAE095F00D_**
Size P								
115	115	10	—	120	**ECX09P1AAA-_**	**ECX09P4AAA-_**	**ECX09P8AAA-_**	**XTAE115G00A_**
	208	25	40	208	**ECX09P1EAA-_**	**ECX09P4EAA-_**	**ECX09P8EAA-_**	**XTAE115G00E_**
	230	25	50	240	**ECX09P1BAA-_**	**ECX09P4BAA-_**	**ECX09P8BAA-_**	**XTAE115G00B_**
	380	—	60	380/50 Hz	**ECX09P1LAA-_**	**ECX09P4LAA-_**	**ECX09P8LAA-_**	**XTAE115G00L_**
	460	—	100	480	**ECX09P1CAA-_**	**ECX09P4CAA-_**	**ECX09P8CAA-_**	**XTAE115G00C_**
	575	—	125	600	**ECX09P1DAA-_**	**ECX09P4DAA-_**	**ECX09P8DAA-_**	**XTAE115G00D_**
Size Q								
150	115	15	—	120	**ECX09Q1AAA-_**	**ECX09Q4AAA-_**	**ECX09Q8AAA-_**	**XTAE150G00A_**
	208	25	40	208	**ECX09Q1EAA-_**	**ECX09Q4EAA-_**	**ECX09Q8EAA-_**	**XTAE150G00E_**
	230	30	60	240	**ECX09Q1BAA-_**	**ECX09Q4BAA-_**	**ECX09Q8BAA-_**	**XTAE150G00B_**
	380	—	60	380/50 Hz	**ECX09Q1LAA-_**	**ECX09Q4LAA-_**	**ECX09Q8LAA-_**	**XTAE150G00L_**
	460	—	125	480	**ECX09Q1CAA-_**	**ECX09Q4CAA-_**	**ECX09Q8CAA-_**	**XTAE150G00C_**
	575	—	150	600	**ECX09Q1DAA-_**	**ECX09Q4DAA-_**	**ECX09Q8DAA-_**	**XTAE150G00D_**

Notes

① 1 hp = 0.746 kW.

② Contact factory for other voltage options.

③ Voltage is listed at 60 Hz unless otherwise noted. Other voltages available upon request.

④ Select proper "XTOB" overload amperage range as per motor FLA, see **Page V10-T3-9**.

⑤ The catalog numbers listed in the Type 4X column are for Type 4X 304-Grade stainless steel, as indicated by the **seventh** digit.
Example: ECX09M**4**AAA-_. To order Type 4X 316-Grade stainless steel, change that digit to **9**. To order Type 4 painted steel, change that digit to **3**.
To order non-metallic, change that digit to **5**. For details on these alternate enclosures, see **Tab 13**.

Class ECX10—Non-Combination Reversing Starter

Amps	Maximum hp ① Motor Voltage ②	Single-Phase	Three-Phase	Coil Voltage at 60 Hz ③	Type 1/IP23 Catalog Number ④	Type 4X/IP66 ⑤ Catalog Number ④	Type 12/IP65 Catalog Number ④	Component Catalog Number ④
Size B								
7	115	1/4	—	120	**ECX10B1AAA-_**	**ECX10B4AAA-_**	**ECX10B8AAA-_**	**XTAR007B10A_**
	208	3/4	1-1/2	208	**ECX10B1EAA-_**	**ECX10B4EAA-_**	**ECX10B8EAA-_**	**XTAR007B10E_**
	230	1	2	240	**ECX10B1BAA-_**	**ECX10B4BAA-_**	**ECX10B8BAA-_**	**XTAR007B10B_**
	380	—	3	380/50 Hz	**ECX10B1LAA-_**	**ECX10B4LAA-_**	**ECX10B8LAA-_**	**XTAR007B10L_**
	460	—	3	480	**ECX10B1CAA-_**	**ECX10B4CAA-_**	**ECX10B8CAA-_**	**XTAR007B10C_**
	575	—	5	600	**ECX10B1DAA-_**	**ECX10B4DAA-_**	**ECX10B8DAA-_**	**XTAR007B10D_**
Size C								
9	115	1/2	—	120	**ECX10C1AAA-_**	**ECX10C4AAA-_**	**ECX10C8AAA-_**	**XTAR009B10A_**
	208	1	2	208	**ECX10C1EAA-_**	**ECX10C4EAA-_**	**ECX10C8EAA-_**	**XTAR009B10E_**
	230	1-1/2	3	240	**ECX10C1BAA-_**	**ECX10C4BAA-_**	**ECX10C8BAA-_**	**XTAR009B10B_**
	380	—	5	380/50 Hz	**ECX10C1LAA-_**	**ECX10C4LAA-_**	**ECX10C8LAA-_**	**XTAR009B10L_**
	460	—	5	480	**ECX10C1CAA-_**	**ECX10C4CAA-_**	**ECX10C8CAA-_**	**XTAR009B10C_**
	575	—	7-1/2	600	**ECX10C1DAA-_**	**ECX10C4DAA-_**	**ECX10C8DAA-_**	**XTAR009B10D_**
Size D								
12	115	1/2	—	120	**ECX10D1AAA-_**	**ECX10D4AAA-_**	**ECX10D8AAA-_**	**XTAR012B10A_**
	208	1-1/2	3	208	**ECX10D1EAA-_**	**ECX10D4EAA-_**	**ECX10D8EAA-_**	**XTAR012B10E_**
	230	2	3	240	**ECX10D1BAA-_**	**ECX10D4BAA-_**	**ECX10D8BAA-_**	**XTAR012B10B_**
	380	—	5	380/50 Hz	**ECX10D1LAA-_**	**ECX10D4LAA-_**	**ECX10D8LAA-_**	**XTAR012B10L_**
	460	—	7-1/2	480	**ECX10D1CAA-_**	**ECX10D4CAA-_**	**ECX10D8CAA-_**	**XTAR012B10C_**
	575	—	10	600	**ECX10D1DAA-_**	**ECX10D4DAA-_**	**ECX10D8DAA-_**	**XTAR012B10D_**
Size E								
15	115	3/4	—	120	**ECX10E1AAA-_**	**ECX10E4AAA-_**	**ECX10E8AAA-_**	**XTAR015B10A_**
	208	2	3	208	**ECX10E1EAA-_**	**ECX10E4EAA-_**	**ECX10E8EAA-_**	**XTAR015B10E_**
	230	2	3	240	**ECX10E1BAA-_**	**ECX10E4BAA-_**	**ECX10E8BAA-_**	**XTAR015B10B_**
	380	—	5	380/50 Hz	**ECX10E1LAA-_**	**ECX10E4LAA-_**	**ECX10E8LAA-_**	**XTAR015B10L_**
	460	—	7-1/2	480	**ECX10E1CAA-_**	**ECX10E4CAA-_**	**ECX10E8CAA-_**	**XTAR015B10C_**
	575	—	10	600	**ECX10E1DAA-_**	**ECX10E4DAA-_**	**ECX10E8DAA-_**	**XTAR015B10D_**
Size F								
18	115	2	—	120	**ECX10F1AAA-_**	**ECX10F4AAA-_**	**ECX10F8AAA-_**	**XTAR018C10A_**
	208	2	5	208	**ECX10F1EAA-_**	**ECX10F4EAA-_**	**ECX10F8EAA-_**	**XTAR018C10E_**
	230	3	5	240	**ECX10F1BAA-_**	**ECX10F4BAA-_**	**ECX10F8BAA-_**	**XTAR018C10B_**
	380	—	7-1/2	380/50 Hz	**ECX10F1LAA-_**	**ECX10F4LAA-_**	**ECX10F8LAA-_**	**XTAR018C10L_**
	460	—	10	480	**ECX10F1CAA-_**	**ECX10F4CAA-_**	**ECX10F8CAA-_**	**XTAR018C10C_**
	575	—	15	600	**ECX10F1DAA-_**	**ECX10F4DAA-_**	**ECX10F8DAA-_**	**XTAR018C10D_**

Notes

① 1 hp = 0.746 kW.

② Contact factory for other voltage options.

③ Voltage is listed at 60 Hz unless otherwise noted. Other voltages available upon request.

④ Select proper "XTOB" overload amperage range as per motor FLA, see **Page V10-T3-9**.

⑤ The catalog numbers listed in the Type 4X column are for Type 4X 304-Grade stainless steel, as indicated by the **seventh** digit.
Example: ECX10B**4**AAA-_. To order Type 4X 316-Grade stainless steel, change that digit to **9**. To order Type 4 painted steel, change that digit to **3**.
To order non-metallic, change that digit to **5**. For details on these alternate enclosures, see **Tab 13**.

Class ECX10—Non-Combination Reversing Starter, continued

Amps	Maximum hp ① Motor Voltage ②	Single-Phase	Three-Phase	Coil Voltage at 60 Hz ③	Type 1/IP23 Catalog Number ④	Type 4X/IP66 ⑤ Catalog Number ④	Type 12/IP65 Catalog Number ④	Component Catalog Number ④
Size G								
25	115	2	—	120	**ECX10G1AAA-_**	**ECX10G4AAA-_**	**ECX10G8AAA-_**	**XTAR025C10A_**
	208	3	7-1/2	208	**ECX10G1EAA-_**	**ECX10G4EAA-_**	**ECX10G8EAA-_**	**XTAR025C10E_**
	230	5	7-1/2	240	**ECX10G1BAA-_**	**ECX10G4BAA-_**	**ECX10G8BAA-_**	**XTAR025C10B_**
	380	—	10	380/50 Hz	**ECX10G1LAA-_**	**ECX10G4LAA-_**	**ECX10G8LAA-_**	**XTAR025C10L_**
	460	—	15	480	**ECX10G1CAA-_**	**ECX10G4CAA-_**	**ECX10G8CAA-_**	**XTAR025C10C_**
	575	—	20	600	**ECX10G1DAA-_**	**ECX10G4DAA-_**	**ECX10G8DAA-_**	**XTAR025C10D_**
Size H								
32	115	3	—	120	**ECX10H1AAA-_**	**ECX10H4AAA-_**	**ECX10H8AAA-_**	**XTAR032C10A_**
	208	5	10	208	**ECX10H1EAA-_**	**ECX10H4EAA-_**	**ECX10H8EAA-_**	**XTAR032C10E_**
	230	5	10	240	**ECX10H1BAA-_**	**ECX10H4BAA-_**	**ECX10H8BAA-_**	**XTAR032C10B_**
	380	—	15	380/50 Hz	**ECX10H1LAA-_**	**ECX10H4LAA-_**	**ECX10H8LAA-_**	**XTAR032C10L_**
	460	—	20	480	**ECX10H1CAA-_**	**ECX10H4CAA-_**	**ECX10H8CAA-_**	**XTAR032C10C_**
	575	—	25	600	**ECX10H1DAA-_**	**ECX10H4DAA-_**	**ECX10H8DAA-_**	**XTAR032C10D_**
Size J								
40	115	3	—	120	**ECX10J1AAA-_**	**ECX10J4AAA-_**	**ECX10J8AAA-_**	**XTAR040D00A_**
	208	5	10	208	**ECX10J1EAA-_**	**ECX10J4EAA-_**	**ECX10J8EAA-_**	**XTAR040D00E_**
	230	7-1/2	15	240	**ECX10J1BAA-_**	**ECX10J4BAA-_**	**ECX10J8BAA-_**	**XTAR040D00B_**
	380	—	15	380/50 Hz	**ECX10J1LAA-_**	**ECX10J4LAA-_**	**ECX10J8LAA-_**	**XTAR040D00L_**
	460	—	30	480	**ECX10J1CAA-_**	**ECX10J4CAA-_**	**ECX10J8CAA-_**	**XTAR040D00C_**
	575	—	40	600	**ECX10J1DAA-_**	**ECX10J4DAA-_**	**ECX10J8DAA-_**	**XTAR040D00D_**
Size K								
50	115	3	—	120	**ECX10K1AAA-_**	**ECX10K4AAA-_**	**ECX10K8AAA-_**	**XTAR050D00A_**
	208	7-1/2	15	208	**ECX10K1EAA-_**	**ECX10K4EAA-_**	**ECX10K8EAA-_**	**XTAR050D00E_**
	230	10	20	240	**ECX10K1BAA-_**	**ECX10K4BAA-_**	**ECX10K8BAA-_**	**XTAR050D00B_**
	380	—	20	380/50 Hz	**ECX10K1LAA-_**	**ECX10K4LAA-_**	**ECX10K8LAA-_**	**XTAR050D00L_**
	460	—	40	480	**ECX10K1CAA-_**	**ECX10K4CAA-_**	**ECX10K8CAA-_**	**XTAR050D00C_**
	575	—	50	600	**ECX10K1DAA-_**	**ECX10K4DAA-_**	**ECX10K8DAA-_**	**XTAR050D00D_**
Size L								
65	115	5	—	120	**ECX10L1AAA-_**	**ECX10L4AAA-_**	**ECX10L8AAA-_**	**XTAR065D00A_**
	208	10	20	208	**ECX10L1EAA-_**	**ECX10L4EAA-_**	**ECX10L8EAA-_**	**XTAR065D00E_**
	230	15	25	240	**ECX10L1BAA-_**	**ECX10L4BAA-_**	**ECX10L8BAA-_**	**XTAR065D00B_**
	380	—	30	380/50 Hz	**ECX10L1LAA-_**	**ECX10L4LAA-_**	**ECX10L8LAA-_**	**XTAR065D00L_**
	460	—	50	480	**ECX10L1CAA-_**	**ECX10L4CAA-_**	**ECX10L8CAA-_**	**XTAR065D00C_**
	575	—	60	600	**ECX10L1DAA-_**	**ECX10L4DAA-_**	**ECX10L8DAA-_**	**XTAR065D00D_**

Notes

① 1 hp = 0.746 kW.

② Contact factory for other voltage options.

③ Voltage is listed at 60 Hz unless otherwise noted. Other voltages available upon request.

④ Select proper "XTOB" overload amperage range as per motor FLA, see **Page V10-T3-9**.

⑤ The catalog numbers listed in the Type 4X column are for Type 4X 304-Grade stainless steel, as indicated by the **seventh** digit.
Example: ECX10G**4**AAA-_. To order Type 4X 316-Grade stainless steel, change that digit to **9**. To order Type 4 painted steel, change that digit to **3**.
To order non-metallic, change that digit to **5**. For details on these alternate enclosures, see **Tab 13**.

Class ECX10—Non-Combination Reversing Starter, continued

Amps	Maximum hp ① Motor Voltage ②	Single-Phase	Three-Phase	Coil Voltage at 60 Hz ③	Type 1/IP23 Catalog Number ④	Type 4X/IP66 ⑤ Catalog Number ④	Type 12/IP65 Catalog Number ④	Component Catalog Number ④
Size M								
80	115	7-1/2	—	120	**ECX10M1AAA-_**	**ECX10M4AAA-_**	**ECX10M8AAA-_**	**XTAR080F00A_**
	208	15	25	208	**ECX10M1EAA-_**	**ECX10M4EAA-_**	**ECX10M8EAA-_**	**XTAR080F00E_**
	230	15	30	240	**ECX10M1BAA-_**	**ECX10M4BAA-_**	**ECX10M8BAA-_**	**XTAR080F00B_**
	380	—	50	380/50 Hz	**ECX10M1LAA-_**	**ECX10M4LAA-_**	**ECX10M8LAA-_**	**XTAR080F00L_**
	460	—	60	480	**ECX10M1CAA-_**	**ECX10M4CAA-_**	**ECX10M8CAA-_**	**XTAR080F00C_**
	575	—	75	600	**ECX10M1DAA-_**	**ECX10M4DAA-_**	**ECX10M8DAA-_**	**XTAR080F00D_**
Size N								
95	115	7-1/2	—	120	**ECX10N1AAA-_**	**ECX10N4AAA-_**	**ECX10N8AAA-_**	**XTAR095F00A_**
	208	15	25	208	**ECX10N1EAA-_**	**ECX10N4EAA-_**	**ECX10N8EAA-_**	**XTAR095F00E_**
	230	15	40	240	**ECX10N1BAA-_**	**ECX10N4BAA-_**	**ECX10N8BAA-_**	**XTAR095F00B_**
	380	—	60	380/50 Hz	**ECX10N1LAA-_**	**ECX10N4LAA-_**	**ECX10N8LAA-_**	**XTAR095F00L_**
	460	—	75	480	**ECX10N1CAA-_**	**ECX10N4CAA-_**	**ECX10N8CAA-_**	**XTAR095F00C_**
	575	—	100	600	**ECX10N1DAA-_**	**ECX10N4DAA-_**	**ECX10N8DAA-_**	**XTAR095F00D_**
Size P								
115	115	10	—	120	**ECX10P1AAA-_**	**ECX10P4AAA-_**	**ECX10P8AAA-_**	**XTAR115G00A_**
	208	25	40	208	**ECX10P1EAA-_**	**ECX10P4EAA-_**	**ECX10P8EAA-_**	**XTAR115G00E_**
	230	25	50	240	**ECX10P1BAA-_**	**ECX10P4BAA-_**	**ECX10P8BAA-_**	**XTAR115G00B_**
	380	—	60	380/50 Hz	**ECX10P1LAA-_**	**ECX10P4LAA-_**	**ECX10P8LAA-_**	**XTAR115G00L_**
	460	—	100	480	**ECX10P1CAA-_**	**ECX10P4CAA-_**	**ECX10P8CAA-_**	**XTAR115G00C_**
	575	—	125	600	**ECX10P1DAA-_**	**ECX10P4DAA-_**	**ECX10P8DAA-_**	**XTAR115G00D_**
Size Q								
150	115	15	—	120	**ECX10Q1AAA-_**	**ECX10Q4AAA-_**	**ECX10Q8AAA-_**	**XTAR150G00A_**
	208	25	40	208	**ECX10Q1EAA-_**	**ECX10Q4EAA-_**	**ECX10Q8EAA-_**	**XTAR150G00E_**
	230	30	60	240	**ECX10Q1BAA-_**	**ECX10Q4BAA-_**	**ECX10Q8BAA-_**	**XTAR150G00B_**
	380	—	60	380/50 Hz	**ECX10Q1LAA-_**	**ECX10Q4LAA-_**	**ECX10Q8LAA-_**	**XTAR150G00L_**
	460	—	125	480	**ECX10Q1CAA-_**	**ECX10Q4CAA-_**	**ECX10Q8CAA-_**	**XTAR150G00C_**
	575	—	150	600	**ECX10Q1DAA-_**	**ECX10Q4DAA-_**	**ECX10Q8DAA-_**	**XTAR150G00D_**

Notes

① 1 hp = 0.746 kW.

② Contact factory for other voltage options.

③ Voltage is listed at 60 Hz unless otherwise noted. Other voltages available upon request.

④ Select proper "XTOB" overload amperage range as per motor FLA, see **Page V10-T3-9**.

⑤ The catalog numbers listed in the Type 4X column are for Type 4X 304-Grade stainless steel, as indicated by the **seventh** digit.
Example: ECX10M**4**AAA-_. To order Type 4X 316-Grade stainless steel, change that digit to **9**. To order Type 4 painted steel, change that digit to **3**.
To order non-metallic, change that digit to **5**. For details on these alternate enclosures, see **Tab 13**.

Class ECX11—Non-Combination Non-Reversing Starter with CPT

Amps	Maximum hp ① Motor Voltage ②	Single-Phase	Three-Phase	Coil Voltage at 60 Hz ③	Type 1/IP23 Catalog Number ④	Type 4X/IP66 ⑤ Catalog Number ④	Type 12/IP65 Catalog Number ④	Component Catalog Number ④
Size B								
7	115	1/4	—	120	**ECX11B1AAA-_**	**ECX11B4AAA-_**	**ECX11B8AAA-_**	**XTAE007B10A_**
	208	3/4	1-1/2	120	**ECX11B1AAA-_**	**ECX11B4AAA-_**	**ECX11B8AAA-_**	**XTAE007B10A_**
	230	1	2	120	**ECX11B1AAA-_**	**ECX11B4AAA-_**	**ECX11B8AAA-_**	**XTAE007B10A_**
	380	—	3	110	**ECX11B1AAA-_**	**ECX11B4AAA-_**	**ECX11B8AAA-_**	**XTAE007B10A_**
	460	—	3	120	**ECX11B1AAA-_**	**ECX11B4AAA-_**	**ECX11B8AAA-_**	**XTAE007B10A_**
	575	—	5	120	**ECX11B1AAA-_**	**ECX11B4AAA-_**	**ECX11B8AAA-_**	**XTAE007B10A_**
Size C								
9	115	1/2	—	120	**ECX11C1AAA-_**	**ECX11C4AAA-_**	**ECX11C8AAA-_**	**XTAE009B10A_**
	208	1	2	120	**ECX11C1AAA-_**	**ECX11C4AAA-_**	**ECX11C8AAA-_**	**XTAE009B10A_**
	230	1-1/2	3	120	**ECX11C1AAA-_**	**ECX11C4AAA-_**	**ECX11C8AAA-_**	**XTAE009B10A_**
	380	—	5	110	**ECX11C1AAA-_**	**ECX11C4AAA-_**	**ECX11C8AAA-_**	**XTAE009B10A_**
	460	—	5	120	**ECX11C1AAA-_**	**ECX11C4AAA-_**	**ECX11C8AAA-_**	**XTAE009B10A_**
	575	—	7-1/2	120	**ECX11C1AAA-_**	**ECX11C4AAA-_**	**ECX11C8AAA-_**	**XTAE009B10A_**
Size D								
12	115	1/2	—	120	**ECX11D1AAA-_**	**ECX11D4AAA-_**	**ECX11D8AAA-_**	**XTAE012B10A_**
	208	1-1/2	3	120	**ECX11D1AAA-_**	**ECX11D4AAA-_**	**ECX11D8AAA-_**	**XTAE012B10A_**
	230	2	3	120	**ECX11D1AAA-_**	**ECX11D4AAA-_**	**ECX11D8AAA-_**	**XTAE012B10A_**
	380	—	5	110	**ECX11D1AAA-_**	**ECX11D4AAA-_**	**ECX11D8AAA-_**	**XTAE012B10A_**
	460	—	7-1/2	120	**ECX11D1AAA-_**	**ECX11D4AAA-_**	**ECX11D8AAA-_**	**XTAE012B10A_**
	575	—	10	120	**ECX11D1AAA-_**	**ECX11D4AAA-_**	**ECX11D8AAA-_**	**XTAE012B10A_**
Size E								
15	115	3/4	—	120	**ECX11E1AAA-_**	**ECX11E4AAA-_**	**ECX11E8AAA-_**	**XTAE015B10A_**
	208	2	3	120	**ECX11E1AAA-_**	**ECX11E4AAA-_**	**ECX11E8AAA-_**	**XTAE015B10A_**
	230	2	3	120	**ECX11E1AAA-_**	**ECX11E4AAA-_**	**ECX11E8AAA-_**	**XTAE015B10A_**
	380	—	5	110	**ECX11E1AAA-_**	**ECX11E4AAA-_**	**ECX11E8AAA-_**	**XTAE015B10A_**
	460	—	7-1/2	120	**ECX11E1AAA-_**	**ECX11E4AAA-_**	**ECX11E8AAA-_**	**XTAE015B10A_**
	575	—	10	120	**ECX11E1AAA-_**	**ECX11E4AAA-_**	**ECX11E8AAA-_**	**XTAE015B10A_**
Size F								
18	115	2	—	120	**ECX11F1AAA-_**	**ECX11F4AAA-_**	**ECX11F8AAA-_**	**XTAE018C10A_**
	208	2	5	120	**ECX11F1AAA-_**	**ECX11F4AAA-_**	**ECX11F8AAA-_**	**XTAE018C10A_**
	230	3	5	120	**ECX11F1AAA-_**	**ECX11F4AAA-_**	**ECX11F8AAA-_**	**XTAE018C10A_**
	380	—	7-1/2	110	**ECX11F1AAA-_**	**ECX11F4AAA-_**	**ECX11F8AAA-_**	**XTAE018C10A_**
	460	—	10	120	**ECX11F1AAA-_**	**ECX11F4AAA-_**	**ECX11F8AAA-_**	**XTAE018C10A_**
	575	—	15	120	**ECX11F1AAA-_**	**ECX11F4AAA-_**	**ECX11F8AAA-_**	**XTAE018C10A_**

Notes

① 1 hp = 0.746 kW.

② Contact factory for other voltage options.

③ Voltage is listed at 60 Hz unless otherwise noted. Other voltages available upon request.

④ Select proper "XTOB" overload amperage range as per motor FLA, see **Page V10-T3-9**.

⑤ The catalog numbers listed in the Type 4X column are for Type 4X 304-Grade stainless steel, as indicated by the **seventh** digit.
Example: ECX11B**4**AAA-_. To order Type 4X 316-Grade stainless steel, change that digit to **9**. To order Type 4 painted steel, change that digit to **3**.
To order non-metallic, change that digit to **5**. For details on these alternate enclosures, see **Tab 13**.

Class ECX11—Non-Combination Non-Reversing Starter with CPT, continued

Amps	Maximum hp ① Motor Voltage ②	Single-Phase	Three-Phase	Coil Voltage at 60 Hz ③	Type 1/IP23 Catalog Number ④	Type 4X/IP66 ⑤ Catalog Number ④	Type 12/IP65 Catalog Number ④	Component Catalog Number ④
Size G								
25	115	2	—	120	**ECX11G1AAA-_**	**ECX11G4AAA-_**	**ECX11G8AAA-_**	**XTAE025C10A_**
	208	3	7-1/2	120	**ECX11G1AAA-_**	**ECX11G4AAA-_**	**ECX11G8AAA-_**	**XTAE025C10A_**
	230	5	7-1/2	120	**ECX11G1AAA-_**	**ECX11G4AAA-_**	**ECX11G8AAA-_**	**XTAE025C10A_**
	380	—	10	110	**ECX11G1AAA-_**	**ECX11G4AAA-_**	**ECX11G8AAA-_**	**XTAE025C10A_**
	460	—	15	120	**ECX11G1AAA-_**	**ECX11G4AAA-_**	**ECX11G8AAA-_**	**XTAE025C10A_**
	575	—	20	120	**ECX11G1AAA-_**	**ECX11G4AAA-_**	**ECX11G8AAA-_**	**XTAE025C10A_**
Size H								
32	115	3	—	120	**ECX11H1AAA-_**	**ECX11H4AAA-_**	**ECX11H8AAA-_**	**XTAE032C10A_**
	208	5	10	120	**ECX11H1AAA-_**	**ECX11H4AAA-_**	**ECX11H8AAA-_**	**XTAE032C10A_**
	230	5	10	120	**ECX11H1AAA-_**	**ECX11H4AAA-_**	**ECX11H8AAA-_**	**XTAE032C10A_**
	380	—	15	110	**ECX11H1AAA-_**	**ECX11H4AAA-_**	**ECX11H8AAA-_**	**XTAE032C10A_**
	460	—	20	120	**ECX11H1AAA-_**	**ECX11H4AAA-_**	**ECX11H8AAA-_**	**XTAE032C10A_**
	575	—	25	120	**ECX11H1AAA-_**	**ECX11H4AAA-_**	**ECX11H8AAA-_**	**XTAE032C10A_**
Size J								
40	115	3	—	120	**ECX11J1AAA-_**	**ECX11J4AAA-_**	**ECX11J8AAA-_**	**XTAE040D00A_**
	208	5	10	120	**ECX11J1AAA-_**	**ECX11J4AAA-_**	**ECX11J8AAA-_**	**XTAE040D00A_**
	230	7-1/2	15	120	**ECX11J1AAA-_**	**ECX11J4AAA-_**	**ECX11J8AAA-_**	**XTAE040D00A_**
	380	—	15	110	**ECX11J1AAA-_**	**ECX11J4AAA-_**	**ECX11J8AAA-_**	**XTAE040D00A_**
	460	—	30	120	**ECX11J1AAA-_**	**ECX11J4AAA-_**	**ECX11J8AAA-_**	**XTAE040D00A_**
	575	—	40	120	**ECX11J1AAA-_**	**ECX11J4AAA-_**	**ECX11J8AAA-_**	**XTAE040D00A_**
Size K								
50	115	3	—	120	**ECX11K1AAA-_**	**ECX11K4AAA-_**	**ECX11K8AAA-_**	**XTAE050D00A_**
	208	7-1/2	15	120	**ECX11K1AAA-_**	**ECX11K4AAA-_**	**ECX11K8AAA-_**	**XTAE050D00A_**
	230	10	20	120	**ECX11K1AAA-_**	**ECX11K4AAA-_**	**ECX11K8AAA-_**	**XTAE050D00A_**
	380	—	20	110	**ECX11K1AAA-_**	**ECX11K4AAA-_**	**ECX11K8AAA-_**	**XTAE050D00A_**
	460	—	40	120	**ECX11K1AAA-_**	**ECX11K4AAA-_**	**ECX11K8AAA-_**	**XTAE050D00A_**
	575	—	50	120	**ECX11K1AAA-_**	**ECX11K4AAA-_**	**ECX11K8AAA-_**	**XTAE050D00A_**
Size L								
65	115	5	—	120	**ECX11L1AAA-_**	**ECX11L4AAA-_**	**ECX11L8AAA-_**	**XTAE065D00A_**
	208	10	20	120	**ECX11L1AAA-_**	**ECX11L4AAA-_**	**ECX11L8AAA-_**	**XTAE065D00A_**
	230	15	25	120	**ECX11L1AAA-_**	**ECX11L4AAA-_**	**ECX11L8AAA-_**	**XTAE065D00A_**
	380	—	30	110	**ECX11L1AAA-_**	**ECX11L4AAA-_**	**ECX11L8AAA-_**	**XTAE065D00A_**
	460	—	50	120	**ECX11L1AAA-_**	**ECX11L4AAA-_**	**ECX11L8AAA-_**	**XTAE065D00A_**
	575	—	60	120	**ECX11L1AAA-_**	**ECX11L4AAA-_**	**ECX11L8AAA-_**	**XTAE065D00A_**

Notes

① 1 hp = 0.746 kW.

② Contact factory for other voltage options.

③ Voltage is listed at 60 Hz unless otherwise noted. Other voltages available upon request.

④ Select proper "XTOB" overload amperage range as per motor FLA, see **Page V10-T3-9**.

⑤ The catalog numbers listed in the Type 4X column are for Type 4X 304-Grade stainless steel, as indicated by the **seventh** digit.
Example: ECX11G**4**AAA-_. To order Type 4X 316-Grade stainless steel, change that digit to **9**. To order Type 4 painted steel, change that digit to **3**.
To order non-metallic, change that digit to **5**. For details on these alternate enclosures, see **Tab 13**.

Class ECX11—Non-Combination Non-Reversing Starter with CPT, continued

Amps	Maximum hp ① Motor Voltage ②	Single-Phase	Three-Phase	Coil Voltage at 60 Hz ③	Type 1/IP23 Catalog Number ④	Type 4X/IP66 ⑤ Catalog Number ④	Type 12/IP65 Catalog Number ④	Component Catalog Number ④
Size M								
80	115	7-1/2	—	120	**ECX11M1AAA-_**	**ECX11M4AAA-_**	**ECX11M8AAA-_**	**XTAE080F00A_**
	208	15	25	120	**ECX11M1AAA-_**	**ECX11M4AAA-_**	**ECX11M8AAA-_**	**XTAE080F00A_**
	230	15	30	120	**ECX11M1AAA-_**	**ECX11M4AAA-_**	**ECX11M8AAA-_**	**XTAE080F00A_**
	380	—	50	110	**ECX11M1AAA-_**	**ECX11M4AAA-_**	**ECX11M8AAA-_**	**XTAE080F00A_**
	460	—	60	120	**ECX11M1AAA-_**	**ECX11M4AAA-_**	**ECX11M8AAA-_**	**XTAE080F00A_**
	575	—	75	120	**ECX11M1AAA-_**	**ECX11M4AAA-_**	**ECX11M8AAA-_**	**XTAE080F00A_**
Size N								
95	115	7-1/2	—	120	**ECX11N1AAA-_**	**ECX11N4AAA-_**	**ECX11N8AAA-_**	**XTAE095F00A_**
	208	15	25	120	**ECX11N1AAA-_**	**ECX11N4AAA-_**	**ECX11N8AAA-_**	**XTAE095F00A_**
	230	15	40	120	**ECX11N1AAA-_**	**ECX11N4AAA-_**	**ECX11N8AAA-_**	**XTAE095F00A_**
	380	—	60	110	**ECX11N1AAA-_**	**ECX11N4AAA-_**	**ECX11N8AAA-_**	**XTAE095F00A_**
	460	—	75	120	**ECX11N1AAA-_**	**ECX11N4AAA-_**	**ECX11N8AAA-_**	**XTAE095F00A_**
	575	—	100	120	**ECX11N1AAA-_**	**ECX11N4AAA-_**	**ECX11N8AAA-_**	**XTAE095F00A_**
Size P								
115	115	10	—	120	**ECX11P1AAA-_**	**ECX11P4AAA-_**	**ECX11P8AAA-_**	**XTAE115G00A_**
	208	25	40	120	**ECX11P1AAA-_**	**ECX11P4AAA-_**	**ECX11P8AAA-_**	**XTAE115G00A_**
	230	25	50	120	**ECX11P1AAA-_**	**ECX11P4AAA-_**	**ECX11P8AAA-_**	**XTAE115G00A_**
	380	—	60	110	**ECX11P1AAA-_**	**ECX11P4AAA-_**	**ECX11P8AAA-_**	**XTAE115G00A_**
	460	—	100	120	**ECX11P1AAA-_**	**ECX11P4AAA-_**	**ECX11P8AAA-_**	**XTAE115G00A_**
	575	—	125	120	**ECX11P1AAA-_**	**ECX11P4AAA-_**	**ECX11P8AAA-_**	**XTAE115G00A_**
Size Q								
150	115	15	—	120	**ECX11Q1AAA-_**	**ECX11Q4AAA-_**	**ECX11Q8AAA-_**	**XTAE150G00A_**
	208	25	40	120	**ECX11Q1AAA-_**	**ECX11Q4AAA-_**	**ECX11Q8AAA-_**	**XTAE150G00A_**
	230	30	60	120	**ECX11Q1AAA-_**	**ECX11Q4AAA-_**	**ECX11Q8AAA-_**	**XTAE150G00A_**
	380	—	60	110	**ECX11Q1AAA-_**	**ECX11Q4AAA-_**	**ECX11Q8AAA-_**	**XTAE150G00A_**
	460	—	125	120	**ECX11Q1AAA-_**	**ECX11Q4AAA-_**	**ECX11Q8AAA-_**	**XTAE150G00A_**
	575	—	150	120	**ECX11Q1AAA-_**	**ECX11Q4AAA-_**	**ECX11Q8AAA-_**	**XTAE150G00A_**

Notes

① 1 hp = 0.746 kW.

② Contact factory for other voltage options.

③ Voltage is listed at 60 Hz unless otherwise noted. Other voltages available upon request.

④ Select proper "XTOB" overload amperage range as per motor FLA, see **Page V10-T3-9**.

⑤ The catalog numbers listed in the Type 4X column are for Type 4X 304-Grade stainless steel, as indicated by the **seventh** digit.
Example: ECX11M**4**AAA-_. To order Type 4X 316-Grade stainless steel, change that digit to **9**. To order Type 4 painted steel, change that digit to **3**.
To order non-metallic, change that digit to **5**. For details on these alternate enclosures, see **Tab 13**.

Combination Starters

Class ECX19—Combination Non-Reversing Starter—Fusible/Non-Fusible Disconnect

Amps	Maximum hp ① Motor Voltage ②	Single-Phase	Three-Phase	Coil Voltage at 60 Hz ③	Fuse Clips	Type 1/IP23 Catalog Number ④	Type 4X/IP66 ⑤ Catalog Number ④	Type 12/IP65 Catalog Number ④	Component Catalog Number ④
Size B									
7	—	—	—	—	30 A	**ECX19B1AAA-_**	**ECX19B4AAA-_**	**ECX19B8AAA-_**	**XTAE007B10A_**
	115	1/4	—	120		**ECX19B1AAC-_**	**ECX19B4AAC-_**	**ECX19B8AAC-_**	**XTAE007B10A_**
	208	3/4	1-1/2	208		**ECX19B1EAC-_**	**ECX19B4EAC-_**	**ECX19B8EAC-_**	**XTAE007B10E_**
	230	1	2	240		**ECX19B1BAC-_**	**ECX19B4BAC-_**	**ECX19B8BAC-_**	**XTAE007B10B_**
	380	—	3	380/50 Hz		**ECX19B1LAC-_**	**ECX19B4LAC-_**	**ECX19B8LAC-_**	**XTAE007B10L_**
	460	—	3	480		**ECX19B1CAC-_**	**ECX19B4CAC-_**	**ECX19B8CAC-_**	**XTAE007B10C_**
	575	—	5	600		**ECX19B1DAC-_**	**ECX19B4DAC-_**	**ECX19B8DAC-_**	**XTAE007B10D_**
Size C									
9	—	—	—	—	30 A	**ECX19C1AAA-_**	**ECX19C4AAA-_**	**ECX19C8AAA-_**	**XTAE009B10A_**
	115	1/2	—	120		**ECX19C1AAC-_**	**ECX19C4AAC-_**	**ECX19C8AAC-_**	**XTAE009B10A_**
	208	1	2	208		**ECX19C1EAC-_**	**ECX19C4EAC-_**	**ECX19C8EAC-_**	**XTAE009B10E_**
	230	1-1/2	3	240		**ECX19C1BAC-_**	**ECX19C4BAC-_**	**ECX19C8BAC-_**	**XTAE009B10B_**
	380	—	5	380/50 Hz		**ECX19C1LAC-_**	**ECX19C4LAC-_**	**ECX19C8LAC-_**	**XTAE009B10L_**
	460	—	5	480		**ECX19C1CAC-_**	**ECX19C4CAC-_**	**ECX19C8CAC-_**	**XTAE009B10C_**
	575	—	7-1/2	600		**ECX19C1DAC-_**	**ECX19C4DAC-_**	**ECX19C8DAC-_**	**XTAE009B10D_**
Size D									
12	—	—	—	—	30 A	**ECX19D1AAA-_**	**ECX19D4AAA-_**	**ECX19D8AAA-_**	**XTAE012B10A_**
	115	1/2	—	120		**ECX19D1AAC-_**	**ECX19D4AAC-_**	**ECX19D8AAC-_**	**XTAE012B10A_**
	208	1-1/2	3	208		**ECX19D1EAC-_**	**ECX19D4EAC-_**	**ECX19D8EAC-_**	**XTAE012B10E_**
	230	2	3	240		**ECX19D1BAC-_**	**ECX19D4BAC-_**	**ECX19D8BAC-_**	**XTAE012B10B_**
	380	—	5	380/50 Hz		**ECX19D1LAC-_**	**ECX19D4LAC-_**	**ECX19D8LAC-_**	**XTAE012B10L_**
	460	—	7-1/2	480		**ECX19D1CAC-_**	**ECX19D4CAC-_**	**ECX19D8CAC-_**	**XTAE012B10C_**
	575	—	10	600		**ECX19D1DAC-_**	**ECX19D4DAC-_**	**ECX19D8DAC-_**	**XTAE012B10D_**
Size E									
15	—	—	—	—	30 A	**ECX19E1AAA-_**	**ECX19E4AAA-_**	**ECX19E8AAA-_**	**XTAE015B10A_**
	115	3/4	—	120		**ECX19E1AAC-_**	**ECX19E4AAC-_**	**ECX19E8AAC-_**	**XTAE015B10A_**
	208	2	3	208		**ECX19E1EAC-_**	**ECX19E4EAC-_**	**ECX19E8EAC-_**	**XTAE015B10E_**
	230	2	3	240		**ECX19E1BAC-_**	**ECX19E4BAC-_**	**ECX19E8BAC-_**	**XTAE015B10B_**
	380	—	5	380/50 Hz		**ECX19E1LAC-_**	**ECX19E4LAC-_**	**ECX19E8LAC-_**	**XTAE015B10L_**
	460	—	7-1/2	480		**ECX19E1CAC-_**	**ECX19E4CAC-_**	**ECX19E8CAC-_**	**XTAE015B10C_**
	575	—	10	600		**ECX19E1DAC-_**	**ECX19E4DAC-_**	**ECX19E8DAC-_**	**XTAE015B10D_**

Notes

① 1 hp = 0.746 kW.

② Contact factory for other voltage options.

③ Voltage is listed at 60 Hz unless otherwise noted. Other voltages available upon request.

④ Select proper "XTOB" overload amperage range as per motor FLA, see **Page V10-T3-9**.

⑤ The catalog numbers listed in the Type 4X column are for Type 4X 304-Grade stainless steel, as indicated by the **seventh** digit.
Example: ECX19B**4**AAA-_. To order Type 4X 316-Grade stainless steel, change that digit to **9**. To order Type 4 painted steel, change that digit to **3**.
To order non-metallic, change that digit to **5**. For details on these alternate enclosures, see **Tab 13**.

Class ECX19—Combination Non-Reversing Starter—Fusible/Non-Fusible Disconnect, continued

Amps	Maximum hp ① Motor Voltage ②	Single-Phase	Three-Phase	Coil Voltage at 60 Hz ③	Fuse Clips	Type 1/IP23 Catalog Number ④	Type 4X/IP66 ⑤ Catalog Number ④	Type 12/IP65 Catalog Number ④	Component Catalog Number ④
Size F									
18	—	—	—	—	30 A	**ECX19F1AAA-_**	**ECX19F4AAA-_**	**ECX19F8AAA-_**	**XTAE018C10A_**
	115	2	—	120		**ECX19F1AAC-_**	**ECX19F4AAC-_**	**ECX19F8AAC-_**	**XTAE018C10A_**
	208	2	5	208		**ECX19F1EAC-_**	**ECX19F4EAC-_**	**ECX19F8EAC-_**	**XTAE018C10E_**
	230	3	5	240		**ECX19F1BAC-_**	**ECX19F4BAC-_**	**ECX19F8BAC-_**	**XTAE018C10B_**
	380	—	7-1/2	380/50 Hz		**ECX19F1LAC-_**	**ECX19F4LAC-_**	**ECX19F8LAC-_**	**XTAE018C10L_**
	460	—	10	480		**ECX19F1CAC-_**	**ECX19F4CAC-_**	**ECX19F8CAC-_**	**XTAE018C10C_**
	575	—	15	600		**ECX19F1DAC-_**	**ECX19F4DAC-_**	**ECX19F8DAC-_**	**XTAE018C10D_**
Size G									
25	—	—	—	—	30 A	**ECX19G1AAA-_**	**ECX19G4AAA-_**	**ECX19G8AAA-_**	**XTAE025C10A_**
	115	2	—	120		**ECX19G1AAC-_**	**ECX19G4AAC-_**	**ECX19G8AAC-_**	**XTAE025C10A_**
	208	3	7-1/2	208		**ECX19G1EAC-_**	**ECX19G4EAC-_**	**ECX19G8EAC-_**	**XTAE025C10E_**
	230	5	7-1/2	240		**ECX19G1BAC-_**	**ECX19G4BAC-_**	**ECX19G8BAC-_**	**XTAE025C10B_**
	380	—	10	380/50 Hz		**ECX19G1LAC-_**	**ECX19G4LAC-_**	**ECX19G8LAC-_**	**XTAE025C10L_**
	460	—	15	480		**ECX19G1CAC-_**	**ECX19G4CAC-_**	**ECX19G8CAC-_**	**XTAE025C10C_**
	575	—	20	600		**ECX19G1DAC-_**	**ECX19G4DAC-_**	**ECX19G8DAC-_**	**XTAE025C10D_**
Size H									
32	—	—	—	—	60 A	**ECX19H1AAA-_**	**ECX19H4AAA-_**	**ECX19H8AAA-_**	**XTAE032C10A_**
	115	3	—	120		**ECX19H1AAE-_**	**ECX19H4AAE-_**	**ECX19H8AAE-_**	**XTAE032C10A_**
	208	5	10	208		**ECX19H1EAE-_**	**ECX19H4EAE-_**	**ECX19H8EAE-_**	**XTAE032C10E_**
	230	5	10	240		**ECX19H1BAE-_**	**ECX19H4BAE-_**	**ECX19H8BAE-_**	**XTAE032C10B_**
	380	—	15	380/50 Hz		**ECX19H1LAE-_**	**ECX19H4LAE-_**	**ECX19H8LAE-_**	**XTAE032C10L_**
	460	—	20	480		**ECX19H1CAE-_**	**ECX19H4CAE-_**	**ECX19H8CAE-_**	**XTAE032C10C_**
	575	—	25	600		**ECX19H1DAE-_**	**ECX19H4DAE-_**	**ECX19H8DAE-_**	**XTAE032C10D_**
Size J									
40	—	—	—	—	60 A	**ECX19J1AAA-_**	**ECX19J4AAA-_**	**ECX19J8AAA-_**	**XTAE040D00A_**
	115	3	—	120		**ECX19J1AAE-_**	**ECX19J4AAE-_**	**ECX19J8AAE-_**	**XTAE040D00A_**
	208	5	10	208		**ECX19J1EAE-_**	**ECX19J4EAE-_**	**ECX19J8EAE-_**	**XTAE040D00E_**
	230	7-1/2	15	240		**ECX19J1BAE-_**	**ECX19J4BAE-_**	**ECX19J8BAE-_**	**XTAE040D00B_**
	380	—	15	380/50 Hz		**ECX19J1LAE-_**	**ECX19J4LAE-_**	**ECX19J8LAE-_**	**XTAE040D00L_**
	460	—	30	480		**ECX19J1CAE-_**	**ECX19J4CAE-_**	**ECX19J8CAE-_**	**XTAE040D00C_**
	575	—	40	600		**ECX19J1DAE-_**	**ECX19J4DAE-_**	**ECX19J8DAE-_**	**XTAE040D00D_**
Size K									
50	—	—	—	—	100 A	**ECX19K1AAA-_**	**ECX19K4AAA-_**	**ECX19K8AAA-_**	**XTAE050D00A_**
	115	3	—	120		**ECX19K1AAE-_**	**ECX19K4AAG-_**	**ECX19K8AAG-_**	**XTAE050D00A_**
	208	7-1/2	15	208		**ECX19K1EAE-_**	**ECX19K4EAG-_**	**ECX19K8EAG-_**	**XTAE050D00E_**
	230	10	20	240		**ECX19K1BAE-_**	**ECX19K4BAG-_**	**ECX19K8BAG-_**	**XTAE050D00B_**
	380	—	20	380/50 Hz		**ECX19K1LAE-_**	**ECX19K4LAG-_**	**ECX19K8LAG-_**	**XTAE050D00L_**
	460	—	40	480		**ECX19K1CAE-_**	**ECX19K4CAG-_**	**ECX19K8CAG-_**	**XTAE050D00C_**
	575	—	50	600		**ECX19K1DAE-_**	**ECX19K4DAG-_**	**ECX19K8DAG-_**	**XTAE050D00D_**

Notes

① 1 hp = 0.746 kW.

② Contact factory for other voltage options.

③ Voltage is listed at 60 Hz unless otherwise noted. Other voltages available upon request.

④ Select proper "XTOB" overload amperage range as per motor FLA, see **Page V10-T3-9**.

⑤ The catalog numbers listed in the Type 4X column are for Type 4X 304-Grade stainless steel, as indicated by the **seventh** digit.
Example: ECX19F**4**AAA-_. To order Type 4X 316-Grade stainless steel, change that digit to **9**. To order Type 4 painted steel, change that digit to **3**.
To order non-metallic, change that digit to **5**. For details on these alternate enclosures, see **Tab 13**.

Class ECX19—Combination Non-Reversing Starter—Fusible/Non-Fusible Disconnect, continued

Amps	Maximum hp ① Motor Voltage ②	Single-Phase	Three-Phase	Coil Voltage at 60 Hz ②	Fuse Clips	Type 1/IP23 Catalog Number ④	Type 4X/IP66 ⑤ Catalog Number ④	Type 12/IP65 Catalog Number ④	Component Catalog Number ④
Size L									
65	—	—	—	—	100 A	**ECX19L1AAA-_**	**ECX19L4AAA-_**	**ECX19L8AAA-_**	**XTAE065D00A_**
	115	5	—	120		**ECX19L1AAG-_**	**ECX19L4AAG-_**	**ECX19L8AAG-_**	**XTAE065D00A_**
	208	10	20	208		**ECX19L1EAG-_**	**ECX19L4EAG-_**	**ECX19L8EAG-_**	**XTAE065D00E_**
	230	15	25	240		**ECX19L1BAG-_**	**ECX19L4BAG-_**	**ECX19L8BAG-_**	**XTAE065D00B_**
	380	—	30	380/50 Hz		**ECX19L1LAG-_**	**ECX19L4LAG-_**	**ECX19L8LAG-_**	**XTAE065D00L_**
	460	—	50	480		**ECX19L1CAG-_**	**ECX19L4CAG-_**	**ECX19L8CAG-_**	**XTAE065D00C_**
	575	—	60	600		**ECX19L1DAG-_**	**ECX19L4DAG-_**	**ECX19L8DAG-_**	**XTAE065D00D_**
Size M									
80	—	—	—	—	100 A	**ECX19M1AAA-_**	**ECX19M4AAA-_**	**ECX19M8AAA-_**	**XTAE080F00A_**
	115	7-1/2	—	120		**ECX19M1AAG-_**	**ECX19M4AAG-_**	**ECX19M8AAG-_**	**XTAE080F00A_**
	208	15	25	208		**ECX19M1EAG-_**	**ECX19M4EAG-_**	**ECX19M8EAG-_**	**XTAE080F00E_**
	230	15	30	240		**ECX19M1BAG-_**	**ECX19M4BAG-_**	**ECX19M8BAG-_**	**XTAE080F00B_**
	380	—	50	380/50 Hz		**ECX19M1LAG-_**	**ECX19M4LAG-_**	**ECX19M8LAG-_**	**XTAE080F00L_**
	460	—	60	480		**ECX19M1CAG-_**	**ECX19M4CAG-_**	**ECX19M8CAG-_**	**XTAE080F00C_**
	575	—	75	600		**ECX19M1DAG-_**	**ECX19M4DAG-_**	**ECX19M8DAG-_**	**XTAE080F00D_**
Size N ⑥									
95	—	—	—	—	⑥	**ECX19N1AAA-_**	**ECX19N4AAA-_**	**ECX19N8AAA-_**	**XTAE095F00A_**
	115	7-1/2	—	120		**ECX19N1AAA-_**	**ECX19N4AAA-_**	**ECX19N8AAA-_**	**XTAE095F00A_**
	208	15	25	208		**ECX19N1EAA-_**	**ECX19N4EAA-_**	**ECX19N8EAA-_**	**XTAE095F00E_**
	230	15	40	240		**ECX19N1BAA-_**	**ECX19N4BAA-_**	**ECX19N8BAA-_**	**XTAE095F00B_**
	380	—	60	380/50 Hz		**ECX19N1LAA-_**	**ECX19N4LAA-_**	**ECX19N8LAA-_**	**XTAE095F00L_**
	460	—	75	480		**ECX19N1CAA-_**	**ECX19N4CAA-_**	**ECX19N8CAA-_**	**XTAE095F00C_**
	575	—	100	600		**ECX19N1DAA-_**	**ECX19N4DAA-_**	**ECX19N8DAA-_**	**XTAE095F00D_**
Size P ⑥									
105	—	—	—	—	⑥	**ECX19P1AAA-_**	**ECX19P4AAA-_**	**ECX19P8AAA-_**	**XTAE115G00A_**
	115	10	—	120		**ECX19P1AAA-_**	**ECX19P4AAA-_**	**ECX19P8AAA-_**	**XTAE115G00A_**
	208	25	30	208		**ECX19P1EAA-_**	**ECX19P4EAA-_**	**ECX19P8EAA-_**	**XTAE115G00E_**
	230	25	40	240		**ECX19P1BAA-_**	**ECX19P4BAA-_**	**ECX19P8BAA-_**	**XTAE115G00B_**
	380	—	60	380/50 Hz		**ECX19P1LAA-_**	**ECX19P4LAA-_**	**ECX19P8LAA-_**	**XTAE115G00L_**
	460	—	75	480		**ECX19P1CAA-_**	**ECX19P4CAA-_**	**ECX19P8CAA-_**	**XTAE115G00C_**
	575	—	100	600		**ECX19P1DAA-_**	**ECX19P4DAA-_**	**ECX19P8DAA-_**	**XTAE115G00D_**

Notes

① 1 hp = 0.746 kW.

② Contact factory for other voltage options.

③ Voltage is listed at 60 Hz unless otherwise noted. Other voltages available upon request.

④ Select proper "XTOB" overload amperage range as per motor FLA, see **Page V10-T3-9**.

⑤ The catalog numbers listed in the Type 4X column are for Type 4X 304-Grade stainless steel, as indicated by the **seventh** digit.
Example: ECX19L**4**AAA-_. To order Type 4X 316-Grade stainless steel, change that digit to **9**. To order Type 4 painted steel, change that digit to **3**.
To order non-metallic, change that digit to **5**. For details on these alternate enclosures, see **Tab 13**.

⑥ Non-fused disconnect only.

Class ECX20—Combination Reversing Starter—Fusible/Non-Fusible Disconnect

Amps	Maximum hp ① Motor Voltage ②	Single-Phase	Three-Phase	Coil Voltage at 60 Hz ③	Fuse Clips	Type 1/IP23 Catalog Number ④	Type 4X/IP66 ⑤ Catalog Number ④	Type 12/IP65 Catalog Number ④	Component Catalog Number ④
Size B									
7	—	—	—	—	30 A	**ECX20B1AAA-_**	**ECX20B4AAA-_**	**ECX20B8AAA-_**	**XTAR007B10A_**
	115	1/4	—	120		**ECX20B1AAC-_**	**ECX20B4AAC-_**	**ECX20B8AAC-_**	**XTAR007B10A_**
	208	3/4	1-1/2	208		**ECX20B1EAC-_**	**ECX20B4EAC-_**	**ECX20B8EAC-_**	**XTAR007B10E_**
	230	1	2	240		**ECX20B1BAC-_**	**ECX20B4BAC-_**	**ECX20B8BAC-_**	**XTAR007B10B_**
	380	—	3	380/50 Hz		**ECX20B1LAC-_**	**ECX20B4LAC-_**	**ECX20B8LAC-_**	**XTAR007B10L_**
	460	—	3	480		**ECX20B1CAC-_**	**ECX20B4CAC-_**	**ECX20B8CAC-_**	**XTAR007B10C_**
	575	—	5	600		**ECX20B1DAC-_**	**ECX20B4DAC-_**	**ECX20B8DAC-_**	**XTAR007B10D_**
Size C									
9	—	—	—	—	30 A	**ECX20C1AAA-_**	**ECX20C4AAA-_**	**ECX20C8AAA-_**	**XTAR009B10A_**
	115	1/2	—	120		**ECX20C1AAC-_**	**ECX20C4AAC-_**	**ECX20C8AAC-_**	**XTAR009B10A_**
	208	1	2	208		**ECX20C1EAC-_**	**ECX20C4EAC-_**	**ECX20C8EAC-_**	**XTAR009B10E_**
	230	1-1/2	3	240		**ECX20C1BAC-_**	**ECX20C4BAC-_**	**ECX20C8BAC-_**	**XTAR009B10B_**
	380	—	5	380/50 Hz		**ECX20C1LAC-_**	**ECX20C4LAC-_**	**ECX20C8LAC-_**	**XTAR009B10L_**
	460	—	5	480		**ECX20C1CAC-_**	**ECX20C4CAC-_**	**ECX20C8CAC-_**	**XTAR009B10C_**
	575	—	7-1/2	600		**ECX20C1DAC-_**	**ECX20C4DAC-_**	**ECX20C8DAC-_**	**XTAR009B10D_**
Size D									
12	—	—	—	—	30 A	**ECX20D1AAA-_**	**ECX20D4AAA-_**	**ECX20D8AAA-_**	**XTAR012B10A_**
	115	1/2	—	120		**ECX20D1AAC-_**	**ECX20D4AAC-_**	**ECX20D8AAC-_**	**XTAR012B10A_**
	208	1-1/2	3	208		**ECX20D1EAC-_**	**ECX20D4EAC-_**	**ECX20D8EAC-_**	**XTAR012B10E_**
	230	2	3	240		**ECX20D1BAC-_**	**ECX20D4BAC-_**	**ECX20D8BAC-_**	**XTAR012B10B_**
	380	—	5	380/50 Hz		**ECX20D1LAC-_**	**ECX20D4LAC-_**	**ECX20D8LAC-_**	**XTAR012B10L_**
	460	—	7-1/2	480		**ECX20D1CAC-_**	**ECX20D4CAC-_**	**ECX20D8CAC-_**	**XTAR012B10C_**
	575	—	10	600		**ECX20D1DAC-_**	**ECX20D4DAC-_**	**ECX20D8DAC-_**	**XTAR012B10D_**
Size E									
15	—	—	—	—	30 A	**ECX20E1AAA-_**	**ECX20E4AAA-_**	**ECX20E8AAA-_**	**XTAR015B10A_**
	115	3/4	—	120		**ECX20E1AAC-_**	**ECX20E4AAC-_**	**ECX20E8AAC-_**	**XTAR015B10A_**
	208	2	3	208		**ECX20E1EAC-_**	**ECX20E4EAC-_**	**ECX20E8EAC-_**	**XTAR015B10E_**
	230	2	3	240		**ECX20E1BAC-_**	**ECX20E4BAC-_**	**ECX20E8BAC-_**	**XTAR015B10B_**
	380	—	5	380/50 Hz		**ECX20E1LAC-_**	**ECX20E4LAC-_**	**ECX20E8LAC-_**	**XTAR015B10L_**
	460	—	7-1/2	480		**ECX20E1CAC-_**	**ECX20E4CAC-_**	**ECX20E8CAC-_**	**XTAR015B10C_**
	575	—	10	600		**ECX20E1DAC-_**	**ECX20E4DAC-_**	**ECX20E8DAC-_**	**XTAR015B10D_**

Notes

① 1 hp = 0.746 kW.

② Contact factory for other voltage options.

③ Voltage is listed at 60 Hz unless otherwise noted. Other voltages available upon request.

④ Select proper "XTOB" overload amperage range as per motor FLA, see **Page V10-T3-9**.

⑤ The catalog numbers listed in the Type 4X column are for Type 4X 304-Grade stainless steel, as indicated by the **seventh** digit.
Example: ECX20B**4**AAA-_. To order Type 4X 316-Grade stainless steel, change that digit to **9**. To order Type 4 painted steel, change that digit to **3**.
To order non-metallic, change that digit to **5**. For details on these alternate enclosures, see **Tab 13**.

Class ECX20—Combination Reversing Starter—Fusible/Non-Fusible Disconnect, continued

Amps	Maximum hp ① Motor Voltage ②	Single-Phase	Three-Phase	Coil Voltage at 60 Hz ③	Fuse Clips	Type 1/IP23 Catalog Number ④	Type 4X/IP66 ⑤ Catalog Number ④	Type 12/IP65 Catalog Number ④	Component Catalog Number ④
Size F									
18	—	—	—	—	30 A	**ECX20F1AAA-_**	**ECX20F4AAA-_**	**ECX20F8AAA-_**	**XTAR018C10A_**
	115	2	—	120		**ECX20F1AAC-_**	**ECX20F4AAC-_**	**ECX20F8AAC-_**	**XTAR018C10A_**
	208	2	5	208		**ECX20F1EAC-_**	**ECX20F4EAC-_**	**ECX20F8EAC-_**	**XTAR018C10E_**
	230	3	5	240		**ECX20F1BAC-_**	**ECX20F4BAC-_**	**ECX20F8BAC-_**	**XTAR018C10B_**
	380	—	7-1/2	380/50 Hz		**ECX20F1LAC-_**	**ECX20F4LAC-_**	**ECX20F8LAC-_**	**XTAR018C10L_**
	460	—	10	480		**ECX20F1CAC-_**	**ECX20F4CAC-_**	**ECX20F8CAC-_**	**XTAR018C10C_**
	575	—	15	600		**ECX20F1DAC-_**	**ECX20F4DAC-_**	**ECX20F8DAC-_**	**XTAR018C10D_**
Size G									
25	—	—	—	—	30 A	**ECX20G1AAA-_**	**ECX20G4AAA-_**	**ECX20G8AAA-_**	**XTAR025C10A_**
	115	2	—	120		**ECX20G1AAC-_**	**ECX20G4AAC-_**	**ECX20G8AAC-_**	**XTAR025C10A_**
	208	3	7-1/2	208		**ECX20G1EAC-_**	**ECX20G4EAC-_**	**ECX20G8EAC-_**	**XTAR025C10E_**
	230	5	7-1/2	240		**ECX20G1BAC-_**	**ECX20G4BAC-_**	**ECX20G8BAC-_**	**XTAR025C10B_**
	380	—	10	380/50 Hz		**ECX20G1LAC-_**	**ECX20G4LAC-_**	**ECX20G8LAC-_**	**XTAR025C10L_**
	460	—	15	480		**ECX20G1CAC-_**	**ECX20G4CAC-_**	**ECX20G8CAC-_**	**XTAR025C10C_**
	575	—	20	600		**ECX20G1DAC-_**	**ECX20G4DAC-_**	**ECX20G8DAC-_**	**XTAR025C10D_**
Size H									
32	—	—	—	—	60 A	**ECX20H1AAA-_**	**ECX20H4AAA-_**	**ECX20H8AAA-_**	**XTAR032C10A_**
	115	3	—	120		**ECX20H1AAE-_**	**ECX20H4AAE-_**	**ECX20H8AAE-_**	**XTAR032C10A_**
	208	5	10	208		**ECX20H1EAE-_**	**ECX20H4EAE-_**	**ECX20H8EAE-_**	**XTAR032C10E_**
	230	5	10	240		**ECX20H1BAE-_**	**ECX20H4BAE-_**	**ECX20H8BAE-_**	**XTAR032C10B_**
	380	—	15	380/50 Hz		**ECX20H1LAE-_**	**ECX20H4LAE-_**	**ECX20H8LAE-_**	**XTAR032C10L_**
	460	—	20	480		**ECX20H1CAE-_**	**ECX20H4CAE-_**	**ECX20H8CAE-_**	**XTAR032C10C_**
	575	—	25	600		**ECX20H1DAE-_**	**ECX20H4DAE-_**	**ECX20H8DAE-_**	**XTAR032C10D_**
Size J									
40	—	—	—	—	60 A	**ECX20J1AAA-_**	**ECX20J4AAA-_**	**ECX20J8AAA-_**	**XTAR040D00A_**
	115	3	—	120		**ECX20J1AAE-_**	**ECX20J4AAE-_**	**ECX20J8AAE-_**	**XTAR040D00A_**
	208	5	10	208		**ECX20J1EAE-_**	**ECX20J4EAE-_**	**ECX20J8EAE-_**	**XTAR040D00E_**
	230	7-1/2	15	240		**ECX20J1BAE-_**	**ECX20J4BAE-_**	**ECX20J8BAE-_**	**XTAR040D00B_**
	380	—	15	380/50 Hz		**ECX20J1LAE-_**	**ECX20J4LAE-_**	**ECX20J8LAE-_**	**XTAR040D00L_**
	460	—	30	480		**ECX20J1CAE-_**	**ECX20J4CAE-_**	**ECX20J8CAE-_**	**XTAR040D00C_**
	575	—	40	600		**ECX20J1DAE-_**	**ECX20J4DAE-_**	**ECX20J8DAE-_**	**XTAR040D00D_**
Size K									
50	—	—	—	—	100 A	**ECX20K1AAA-_**	**ECX20K4AAA-_**	**ECX20K8AAA-_**	**XTAR050D00A_**
	115	3	—	120		**ECX20K1AAG-_**	**ECX20K4AAG-_**	**ECX20K8AAG-_**	**XTAR050D00A_**
	208	7-1/2	15	208		**ECX20K1EAG-_**	**ECX20K4EAG-_**	**ECX20K8EAG-_**	**XTAR050D00E_**
	230	10	20	240		**ECX20K1BAG-_**	**ECX20K4BAG-_**	**ECX20K8BAG-_**	**XTAR050D00B_**
	380	—	20	380/50 Hz		**ECX20K1LAG-_**	**ECX20K4LAG-_**	**ECX20K8LAG-_**	**XTAR050D00L_**
	460	—	40	480		**ECX20K1CAG-_**	**ECX20K4CAG-_**	**ECX20K8CAG-_**	**XTAR050D00C_**
	575	—	50	600		**ECX20K1DAG-_**	**ECX20K4DAG-_**	**ECX20K8DAG-_**	**XTAR050D00D_**

Notes

① 1 hp = 0.746 kW.

② Contact factory for other voltage options.

③ Voltage is listed at 60 Hz unless otherwise noted. Other voltages available upon request.

④ Select proper "XTOB" overload amperage range as per motor FLA, see **Page V10-T3-9**.

⑤ The catalog numbers listed in the Type 4X column are for Type 4X 304-Grade stainless steel, as indicated by the **seventh** digit.
Example: ECX20F**4**AAA-_. To order Type 4X 316-Grade stainless steel, change that digit to **9**. To order Type 4 painted steel, change that digit to **3**.
To order non-metallic, change that digit to **5**. For details on these alternate enclosures, see **Tab 13**.

Class ECX20—Combination Reversing Starter—Fusible/Non-Fusible Disconnect, continued

Amps	Maximum hp ① Motor Voltage ②	Single-Phase	Three-Phase	Coil Voltage at 60 Hz ③	Fuse Clips	Type 1/IP23 Catalog Number ④	Type 4X/IP66 ⑤ Catalog Number ④	Type 12/IP65 Catalog Number ④	Component Catalog Number ④
Size L									
65	—	—	—	—	100 A	**ECX20L1AAA-_**	**ECX20L4AAA-_**	**ECX20L8AAA-_**	**XTAR065D00A_**
	115	5	—	120		**ECX20L1AAG-_**	**ECX20L4AAG-_**	**ECX20L8AAG-_**	**XTAR065D00A_**
	208	10	20	208		**ECX20L1EAG-_**	**ECX20L4EAG-_**	**ECX20L8EAG-_**	**XTAR065D00E_**
	230	15	25	240		**ECX20L1BAG-_**	**ECX20L4BAG-_**	**ECX20L8BAG-_**	**XTAR065D00B_**
	380	—	30	380/50 Hz		**ECX20L1LAG-_**	**ECX20L4LAG-_**	**ECX20L8LAG-_**	**XTAR065D00L_**
	460	—	50	480		**ECX20L1CAG-_**	**ECX20L4CAG-_**	**ECX20L8CAG-_**	**XTAR065D00C_**
	575	—	60	600		**ECX20L1DAG-_**	**ECX20L4DAG-_**	**ECX20L8DAG-_**	**XTAR065D00D_**
Size M									
80	—	—	—	—	100 A	**ECX20M1AAA-_**	**ECX20M4AAA-_**	**ECX20M8AAA-_**	**XTAR080F00A_**
	115	7-1/2	—	120		**ECX20M1AAG-_**	**ECX20M4AAG-_**	**ECX20M8AAG-_**	**XTAR080F00A_**
	208	15	25	208		**ECX20M1EAG-_**	**ECX20M4EAG-_**	**ECX20M8EAG-_**	**XTAR080F00E_**
	230	15	30	240		**ECX20M1BAG-_**	**ECX20M4BAG-_**	**ECX20M8BAG-_**	**XTAR080F00B_**
	380	—	50	380/50 Hz		**ECX20M1LAG-_**	**ECX20M4LAG-_**	**ECX20M8LAG-_**	**XTAR080F00L_**
	460	—	60	480		**ECX20M1CAG-_**	**ECX20M4CAG-_**	**ECX20M8CAG-_**	**XTAR080F00C_**
	575	—	75	600		**ECX20M1DAG-_**	**ECX20M4DAG-_**	**ECX20M8DAG-_**	**XTAR080F00D_**
Size N ⑥									
95	—	—	—	—	⑥	**ECX20N1AAA-_**	**ECX20N4AAA-_**	**ECX20N8AAA-_**	**XTAR095F00A_**
	115	7-1/2	—	120		**ECX20N1AAA-_**	**ECX20N4AAA-_**	**ECX20N8AAA-_**	**XTAR095F00A_**
	208	15	25	208		**ECX20N1EAA-_**	**ECX20N4EAA-_**	**ECX20N8EAA-_**	**XTAR095F00E_**
	230	15	40	240		**ECX20N1BAA-_**	**ECX20N4BAA-_**	**ECX20N8BAA-_**	**XTAR095F00B_**
	380	—	60	380/50 Hz		**ECX20N1LAA-_**	**ECX20N4LAA-_**	**ECX20N8LAA-_**	**XTAR095F00L_**
	460	—	75	480		**ECX20N1CAA-_**	**ECX20N4CAA-_**	**ECX20N8CAA-_**	**XTAR095F00C_**
	575	—	100	600		**ECX20N1DAA-_**	**ECX20N4DAA-_**	**ECX20N8DAA-_**	**XTAR095F00D_**
Size P ⑥									
105	—	—	—	—	⑥	**ECX20P1AAA-_**	**ECX20P4AAA-_**	**ECX20P8AAA-_**	**XTAR115G00A_**
	115	10	—	120		**ECX20P1AAA-_**	**ECX20P4AAA-_**	**ECX20P8AAA-_**	**XTAR115G00A_**
	208	25	30	208		**ECX20P1EAA-_**	**ECX20P4EAA-_**	**ECX20P8EAA-_**	**XTAR115G00E_**
	230	25	40	240		**ECX20P1BAA-_**	**ECX20P4BAA-_**	**ECX20P8BAA-_**	**XTAR115G00B_**
	380	—	60	380/50 Hz		**ECX20P1LAA-_**	**ECX20P4LAA-_**	**ECX20P8LAA-_**	**XTAR115G00L_**
	460	—	75	480		**ECX20P1CAA-_**	**ECX20P4CAA-_**	**ECX20P8CAA-_**	**XTAR115G00C_**
	575	—	100	600		**ECX20P1DAA-_**	**ECX20P4DAA-**	**ECX20P8DAA-_**	**XTAR115G00D_**

Notes

① 1 hp = 0.746 kW.

② Contact factory for other voltage options.

③ Voltage is listed at 60 Hz unless otherwise noted. Other voltages available upon request.

④ Select proper "XTOB" overload amperage range as per motor FLA, see **Page V10-T3-9**.

⑤ The catalog numbers listed in the Type 4X column are for Type 4X 304-Grade stainless steel, as indicated by the **seventh** digit.
Example: ECX20L**4**AAA-_. To order Type 4X 316-Grade stainless steel, change that digit to **9**. To order Type 4 painted steel, change that digit to **3**.
To order non-metallic, change that digit to **5**. For details on these alternate enclosures, see **Tab 13**.

⑥ Non-fused disconnect only.

Class ECX25—Combination Non-Reversing Starter—Circuit Breaker

Amps	Maximum hp ① Motor Voltage ②	Single-Phase	Three-Phase	Coil Voltage at 60 Hz ③	Circuit Breaker	Type 1/IP23 Catalog Number ④	Type 4X/IP66 ⑤ Catalog Number ④	Type 12/IP65 Catalog Number ④	Component Catalog Number ④
Size B									
7	115	1/4	—	120	7 A	**ECX25B1AAC-_**	**ECX25B4AAC-_**	**ECX25B8AAC-_**	**XTAE007B10A_**
	208	3/4	1-1/2	208		**ECX25B1EAC-_**	**ECX25B4EAC-_**	**ECX25B8EAC-_**	**XTAE007B10E_**
	230	1	2	240		**ECX25B1BAC-_**	**ECX25B4BAC-_**	**ECX25B8BAC-_**	**XTAE007B10B_**
	380	—	3	380/50 Hz		**ECX25B1LAC-_**	**ECX25B4LAC-_**	**ECX25B8LAC-_**	**XTAE007B10L_**
	460	—	3	480		**ECX25B1CAC-_**	**ECX25B4CAC-_**	**ECX25B8CAC-_**	**XTAE007B10C_**
	575	—	5	600		**ECX25B1DAC-_**	**ECX25B4DAC-_**	**ECX25B8DAC-_**	**XTAE007B10D_**
Size C									
9	115	1/2	—	120	15 A	**ECX25C1AAD-_**	**ECX25C4AAD-_**	**ECX25C8AAD-_**	**XTAE009B10A_**
	208	1	2	208		**ECX25C1EAD-_**	**ECX25C4EAD-_**	**ECX25C8EAD-_**	**XTAE009B10E_**
	230	1-1/2	3	240		**ECX25C1BAD-_**	**ECX25C4BAD-_**	**ECX25C8BAD-_**	**XTAE009B10B_**
	380	—	5	380/50 Hz		**ECX25C1LAD-_**	**ECX25C4LAD-_**	**ECX25C8LAD-_**	**XTAE009B10L_**
	460	—	5	480		**ECX25C1CAD-_**	**ECX25C4CAD-_**	**ECX25C8CAD-_**	**XTAE009B10C_**
	575	—	7-1/2	600		**ECX25C1DAD-_**	**ECX25C4DAD-_**	**ECX25C8DAD-_**	**XTAE009B10D_**
Size D									
12	115	1/2	—	120	15 A	**ECX25D1AAD-_**	**ECX25D4AAD-_**	**ECX25D8AAD-_**	**XTAE012B10A_**
	208	1-1/2	3	208		**ECX25D1EAD-_**	**ECX25D4EAD-_**	**ECX25D8EAD-_**	**XTAE012B10E_**
	230	2	3	240		**ECX25D1BAD-_**	**ECX25D4BAD-_**	**ECX25D8BAD-_**	**XTAE012B10B_**
	380	—	5	380/50 Hz		**ECX25D1LAD-_**	**ECX25D4LAD-_**	**ECX25D8LAD-_**	**XTAE012B10L_**
	460	—	7-1/2	480		**ECX25D1CAD-_**	**ECX25D4CAD-_**	**ECX25D8CAD-_**	**XTAE012B10C_**
	575	—	10	600		**ECX25D1DAD-_**	**ECX25D4DAD-_**	**ECX25D8DAD-_**	**XTAE012B10D_**
Size E									
15	115	3/4	—	120	30 A	**ECX25E1AAE-_**	**ECX25E4AAE-_**	**ECX25E8AAE-_**	**XTAE015B10A_**
	208	2	3	208		**ECX25E1EAE-_**	**ECX25E4EAE-_**	**ECX25E8EAE-_**	**XTAE015B10E_**
	230	2	3	240		**ECX25E1BAE-_**	**ECX25E4BAE-_**	**ECX25E8BAE-_**	**XTAE015B10B_**
	380	—	5	380/50 Hz		**ECX25E1LAE-_**	**ECX25E4LAE-_**	**ECX25E8LAE-_**	**XTAE015B10L_**
	460	—	7-1/2	480		**ECX25E1CAE-_**	**ECX25E4CAE-_**	**ECX25E8CAE-_**	**XTAE015B10C_**
	575	—	10	600		**ECX25E1DAE-_**	**ECX25E4DAE-_**	**ECX25E8DAE-_**	**XTAE015B10D_**
Size F									
18	115	2	—	120	30 A	**ECX25F1AAE-_**	**ECX25F4AAE-_**	**ECX25F8AAE-_**	**XTAE018C10A_**
	208	2	5	208		**ECX25F1EAE-_**	**ECX25F4EAE-_**	**ECX25F8EAE-_**	**XTAE018C10E_**
	230	3	5	240		**ECX25F1BAE-_**	**ECX25F4BAE-_**	**ECX25F8BAE-_**	**XTAE018C10B_**
	380	—	7-1/2	380/50 Hz		**ECX25F1LAE-_**	**ECX25F4LAE-_**	**ECX25F8LAE-_**	**XTAE018C10L_**
	460	—	10	480		**ECX25F1CAE-_**	**ECX25F4CAE-_**	**ECX25F8CAE-_**	**XTAE018C10C_**
	575	—	15	600		**ECX25F1DAE-_**	**ECX25F4DAE-_**	**ECX25F8DAE-_**	**XTAE018C10D_**

Notes

① 1 hp = 0.746 kW.

② Contact factory for other voltage options.

③ Voltage is listed at 60 Hz unless otherwise noted. Other voltages available upon request.

④ Select proper "XTOB" overload amperage range as per motor FLA, see **Page V10-T3-9**.

⑤ The catalog numbers listed in the Type 4X column are for Type 4X 304-Grade stainless steel, as indicated by the **seventh** digit.
Example: ECX25B**4**AAA-_. To order Type 4X 316-Grade stainless steel, change that digit to **9**. To order Type 4 painted steel, change that digit to **3**.
To order non-metallic, change that digit to **5**. For details on these alternate enclosures, see **Tab 13**.

Class ECX25—Combination Non-Reversing Starter—Circuit Breaker, continued

Amps	Maximum hp ① Motor Voltage ②	Single-Phase	Three-Phase	Coil Voltage at 60 Hz ③	Circuit Breaker	Type 1/IP23 Catalog Number ④	Type 4X/IP66 ⑤ Catalog Number ④	Type 12/IP65 Catalog Number ④	Component Catalog Number ④
Size G									
25	115	2	—	120	50 A	**ECX25G1AAF-_**	**ECX25G4AAF-_**	**ECX25G8AAF-_**	**XTAE025C10A_**
	208	3	7-1/2	208		**ECX25G1EAF-_**	**ECX25G4EAF-_**	**ECX25G8EAF-_**	**XTAE025C10E_**
	230	5	7-1/2	240		**ECX25G1BAF-_**	**ECX25G4BAF-_**	**ECX25G8BAF-_**	**XTAE025C10B_**
	380	—	10	380/50 Hz		**ECX25G1LAF-_**	**ECX25G4LAF-_**	**ECX25G8LAF-_**	**XTAE025C10L_**
	460	—	15	480		**ECX25G1CAF-_**	**ECX25G4CAF-_**	**ECX25G8CAF-_**	**XTAE025C10C_**
	575	—	20	600		**ECX25G1DAF-_**	**ECX25G4DAF-_**	**ECX25G8DAF-_**	**XTAE025C10D_**
Size H									
32	115	3	—	120	50 A	**ECX25H1AAF-_**	**ECX25H4AAF-_**	**ECX25H8AAF-_**	**XTAE032C10A_**
	208	5	10	208		**ECX25H1EAF-_**	**ECX25H4EAF-_**	**ECX25H8EAF-_**	**XTAE032C10E_**
	230	5	10	240		**ECX25H1BAF-_**	**ECX25H4BAF-_**	**ECX25H8BAF-_**	**XTAE032C10B_**
	380	—	15	380/50 Hz		**ECX25H1LAF-_**	**ECX25H4LAF-_**	**ECX25H8LAF-_**	**XTAE032C10L_**
	460	—	20	480		**ECX25H1CAF-_**	**ECX25H4CAF-_**	**ECX25H8CAF-_**	**XTAE032C10C_**
	575	—	25	600		**ECX25H1DAF-_**	**ECX25H4DAF-_**	**ECX25H8DAF-_**	**XTAE032C10D_**
Size J									
40	115	3	—	120	50 A	**ECX25J1AAF-_**	**ECX25J4AAF-_**	**ECX25J8AAF-_**	**XTAE040D00A_**
	208	5	10	208		**ECX25J1EAF-_**	**ECX25J4EAF-_**	**ECX25J8EAF-_**	**XTAE040D00E_**
	230	7-1/2	15	240		**ECX25J1BAF-_**	**ECX25J4BAF-_**	**ECX25J8BAF-_**	**XTAE040D00B_**
	380	—	15	380/50 Hz		**ECX25J1LAF-_**	**ECX25J4LAF-_**	**ECX25J8LAF-_**	**XTAE040D00L_**
	460	—	30	480		**ECX25J1CAF-_**	**ECX25J4CAF-_**	**ECX25J8CAF-_**	**XTAE040D00C_**
	575	—	40	600		**ECX25J1DAF-_**	**ECX25J4DAF-_**	**ECX25J8DAF-_**	**XTAE040D00D_**
Size K									
50	115	3	—	120	70 A	**ECX25K1AAW-_**	**ECX25K4AAW-_**	**ECX25K8AAW-_**	**XTAE050D00A_**
	208	7-1/2	15	208		**ECX25K1EAW-_**	**ECX25K4EAW-_**	**ECX25K8EAW-_**	**XTAE050D00E_**
	230	10	20	240		**ECX25K1BAW-_**	**ECX25K4BAW-_**	**ECX25K8BAW-_**	**XTAE050D00B_**
	380	—	20	380/50 Hz		**ECX25K1LAW-_**	**ECX25K4LAW-_**	**ECX25K8LAW-_**	**XTAE050D00L_**
	460	—	40	480		**ECX25K1CAW-_**	**ECX25K4CAW-_**	**ECX25K8CAW-_**	**XTAE050D00C_**
	575	—	50	600		**ECX25K1DAW-_**	**ECX25K4DAW-_**	**ECX25K8DAW-_**	**XTAE050D00D_**
Size L									
65	115	5	—	120	70 A	**ECX25L1AAW-_**	**ECX25L4AAW-_**	**ECX25L8AAW-_**	**XTAE065D00A_**
	208	10	20	208		**ECX25L1EAW-_**	**ECX25L4EAW-_**	**ECX25L8EAW-_**	**XTAE065D00E_**
	230	15	25	240		**ECX25L1BAW-_**	**ECX25L4BAW-_**	**ECX25L8BAW-_**	**XTAE065D00B_**
	380	—	30	380/50 Hz		**ECX25L1LAW-_**	**ECX25L4LAW-_**	**ECX25L8LAW-_**	**XTAE065D00L_**
	460	—	50	480		**ECX25L1CAW-_**	**ECX25L4CAW-_**	**ECX25L8CAW-_**	**XTAE065D00C_**
	575	—	60	600		**ECX25L1DAW-_**	**ECX25L4DAW-_**	**ECX25L8DAW-_**	**XTAE065D00D_**

Notes

① 1 hp = 0.746 kW.

② Contact factory for other voltage options.

③ Voltage is listed at 60 Hz unless otherwise noted. Other voltages available upon request.

④ Select proper "XTOB" overload amperage range as per motor FLA, see **Page V10-T3-9**.

⑤ The catalog numbers listed in the Type 4X column are for Type 4X 304-Grade stainless steel, as indicated by the **seventh** digit.
Example: ECX25G**4**AAA-_. To order Type 4X 316-Grade stainless steel, change that digit to **9**. To order Type 4 painted steel, change that digit to **3**.
To order non-metallic, change that digit to **5**. For details on these alternate enclosures, see **Tab 13**.

Class ECX25—Combination Non-Reversing Starter—Circuit Breaker, continued

Amps	Maximum hp ① Motor Voltage ②	Single-Phase	Three-Phase	Coil Voltage at 60 Hz ③	Circuit Breaker	Type 1/IP23 Catalog Number ④	Type 4X/IP66 ⑤ Catalog Number ④	Type 12/IP65 Catalog Number ④	Component Catalog Number ④
Size M									
80	115	7-1/2	—	120	100 A	**ECX25M1AAG-_**	**ECX25M4AAG-_**	**ECX25M8AAG-_**	**XTAE080F00A_**
	208	15	25	208		**ECX25M1EAG-_**	**ECX25M4EAG-_**	**ECX25M8EAG-_**	**XTAE080F00E_**
	230	15	30	240		**ECX25M1BAG-_**	**ECX25M4BAG-_**	**ECX25M8BAG-_**	**XTAE080F00B_**
	380	—	50	380/50 Hz		**ECX25M1LAG-_**	**ECX25M4LAG-_**	**ECX25M8LAG-_**	**XTAE080F00L_**
	460	—	60	480		**ECX25M1CAG-_**	**ECX25M4CAG-_**	**ECX25M8CAG-_**	**XTAE080F00C_**
	575	—	75	600		**ECX25M1DAG-_**	**ECX25M4DAG-_**	**ECX25M8DAG-_**	**XTAE080F00D_**
Size N									
95	115	7-1/2	—	120	100 A	**ECX25N1AAG-_**	**ECX25N4AAG-_**	**ECX25N8AAG-_**	**XTAE095F00A_**
	208	15	25	208		**ECX25N1EAG-_**	**ECX25N4EAG-_**	**ECX25N8EAG-_**	**XTAE095F00E_**
	230	15	40	240		**ECX25N1BAG-_**	**ECX25N4BAG-_**	**ECX25N8BAG-_**	**XTAE095F00B_**
	380	—	60	380/50 Hz		**ECX25N1LAG-_**	**ECX25N4LAG-_**	**ECX25N8LAG-_**	**XTAE095F00L_**
	460	—	75	480		**ECX25N1CAG-_**	**ECX25N4CAG-_**	**ECX25N8CAG-_**	**XTAE095F00C_**
	575	—	100	600		**ECX25N1DAG-_**	**ECX25N4DAG-_**	**ECX25N8DAG-_**	**XTAE095F00D_**
Size P									
115	115	10	—	120	150 A	**ECX25P1AAH-_**	**ECX25P4AAH-_**	**ECX25P8AAH-_**	**XTAE115G00A_**
	208	25	40	208		**ECX25P1EAH-_**	**ECX25P4EAH-_**	**ECX25P8EAH-_**	**XTAE115G00E_**
	230	25	50	240		**ECX25P1BAH-_**	**ECX25P4BAH-_**	**ECX25P8BAH-_**	**XTAE115G00B_**
	380	—	60	380/50 Hz		**ECX25P1LAH-_**	**ECX25P4LAH-_**	**ECX25P8LAH-_**	**XTAE115G00L_**
	460	—	100	480		**ECX25P1CAH-_**	**ECX25P4CAH-_**	**ECX25P8CAH-_**	**XTAE115G00C_**
	575	—	125	600		**ECX25P1DAH-_**	**ECX25P4DAH-_**	**ECX25P8DAH-_**	**XTAE115G00D_**
Size Q									
125	115	15	—	120	150 A	**ECX25Q1AAH-_**	**ECX25Q4AAH-_**	**ECX25Q8AAH-_**	**XTAE150G00A_**
	208	25	40	208		**ECX25Q1EAH-_**	**ECX25Q4EAH-_**	**ECX25Q8EAH-_**	**XTAE150G00E_**
	230	25	50	240		**ECX25Q1BAH-_**	**ECX25Q4BAH-_**	**ECX25Q8BAH-_**	**XTAE150G00B_**
	380	—	75	380/50 Hz		**ECX25Q1LAH-_**	**ECX25Q4LAH-_**	**ECX25Q8LAH-_**	**XTAE150G00L_**
	460	—	100	480		**ECX25Q1CAH-_**	**ECX25Q4CAH-_**	**ECX25Q8CAH-_**	**XTAE150G00C_**
	575	—	125	600		**ECX25Q1DAH-_**	**ECX25Q4DAH-_**	**ECX25Q8DAH-_**	**XTAE150G00D_**

Notes

① 1 hp = 0.746 kW.

② Contact factory for other voltage options.

③ Voltage is listed at 60 Hz unless otherwise noted. Other voltages available upon request.

④ Select proper "XTOB" overload amperage range as per motor FLA, see **Page V10-T3-9**.

⑤ The catalog numbers listed in the Type 4X column are for Type 4X 304-Grade stainless steel, as indicated by the **seventh** digit.
Example: ECX25M**4**AAA-_. To order Type 4X 316-Grade stainless steel, change that digit to **9**. To order Type 4 painted steel, change that digit to **3**.
To order non-metallic, change that digit to **5**. For details on these alternate enclosures, see **Tab 13**.

Class ECX26—Combination Reversing Starter—Circuit Breaker

Amps	Maximum hp ① Motor Voltage ②	Single-Phase	Three-Phase	Coil Voltage at 60 Hz ③	Circuit Breaker	Type 1/IP23 Catalog Number ④	Type 4X/IP66 ⑤ Catalog Number ④	Type 12/IP65 Catalog Number ④	Component Catalog Number ④
Size B									
7	115	1/4	—	120	7 A	**ECX26B1AAC-_**	**ECX26B4AAC-_**	**ECX26B8AAC-_**	**XTAR007B10A_**
	208	3/4	1-1/2	208		**ECX26B1EAC-_**	**ECX26B4EAC-_**	**ECX26B8EAC-_**	**XTAR007B10E_**
	230	1	2	240		**ECX26B1BAC-_**	**ECX26B4BAC-_**	**ECX26B8BAC-_**	**XTAR007B10B_**
	380	—	3	380/50 Hz		**ECX26B1LAC-_**	**ECX26B4LAC-_**	**ECX26B8LAC-_**	**XTAR007B10L_**
	460	—	3	480		**ECX26B1CAC-_**	**ECX26B4CAC-_**	**ECX26B8CAC-_**	**XTAR007B10C_**
	575	—	5	600		**ECX26B1DAC-_**	**ECX26B4DAC-_**	**ECX26B8DAC-_**	**XTAR007B10D_**
Size C									
9	115	1/2	—	120	15 A	**ECX26C1AAD-_**	**ECX26C4AAD-_**	**ECX26C8AAD-_**	**XTAR009B10A_**
	208	1	2	208		**ECX26C1EAD-_**	**ECX26C4EAD-_**	**ECX26C8EAD-_**	**XTAR009B10E_**
	230	1-1/2	3	240		**ECX26C1BAD-_**	**ECX26C4BAD-_**	**ECX26C8BAD-_**	**XTAR009B10B_**
	380	—	5	380/50 Hz		**ECX26C1LAD-_**	**ECX26C4LAD-_**	**ECX26C8LAD-_**	**XTAR009B10L_**
	460	—	5	480		**ECX26C1CAD-_**	**ECX26C4CAD-_**	**ECX26C8CAD-_**	**XTAR009B10C_**
	575	—	7-1/2	600		**ECX26C1DAD-_**	**ECX26C4DAD-_**	**ECX26C8DAD-_**	**XTAR009B10D_**
Size D									
12	115	1/2	—	120	15 A	**ECX26D1AAD-_**	**ECX26D4AAD-_**	**ECX26D8AAD-_**	**XTAR012B10A_**
	208	1-1/2	3	208		**ECX26D1EAD-_**	**ECX26D4EAD-_**	**ECX26D8EAD-_**	**XTAR012B10E_**
	230	2	3	240		**ECX26D1BAD-_**	**ECX26D4BAD-_**	**ECX26D8BAD-_**	**XTAR012B10B_**
	380	—	5	380/50 Hz		**ECX26D1LAD-_**	**ECX26D4LAD-_**	**ECX26D8LAD-_**	**XTAR012B10L_**
	460	—	7-1/2	480		**ECX26D1CAD-_**	**ECX26D4CAD-_**	**ECX26D8CAD-_**	**XTAR012B10C_**
	575	—	10	600		**ECX26D1DAD-_**	**ECX26D4DAD-_**	**ECX26D8DAD-_**	**XTAR012B10D_**
Size E									
15	115	3/4	—	120	30 A	**ECX26E1AAE-_**	**ECX26E4AAE-_**	**ECX26E8AAE-_**	**XTAR015B10A_**
	208	2	3	208		**ECX26E1EAE-_**	**ECX26E4EAE-_**	**ECX26E8EAE-_**	**XTAR015B10E_**
	230	2	3	240		**ECX26E1BAE-_**	**ECX26E4BAE-_**	**ECX26E8BAE-_**	**XTAR015B10B_**
	380	—	5	380/50 Hz		**ECX26E1LAE-_**	**ECX26E4LAE-_**	**ECX26E8LAE-_**	**XTAR015B10L_**
	460	—	7-1/2	480		**ECX26E1CAE-_**	**ECX26E4CAE-_**	**ECX26E8CAE-_**	**XTAR015B10C_**
	575	—	10	600		**ECX26E1DAE-_**	**ECX26E4DAE-_**	**ECX26E8DAE-_**	**XTAR015B10D_**
Size F									
18	115	2	—	120	30 A	**ECX26F1AAE-_**	**ECX26F4AAE-_**	**ECX26F8AAE-_**	**XTAR018C10A_**
	208	2	5	208		**ECX26F1EAE-_**	**ECX26F4EAE-_**	**ECX26F8EAE-_**	**XTAR018C10E_**
	230	3	5	240		**ECX26F1BAE-_**	**ECX26F4BAE-_**	**ECX26F8BAE-_**	**XTAR018C10B_**
	380	—	7-1/2	380/50 Hz		**ECX26F1LAE-_**	**ECX26F4LAE-_**	**ECX26F8LAE-_**	**XTAR018C10L_**
	460	—	10	480		**ECX26F1CAE-_**	**ECX26F4CAE-_**	**ECX26F8CAE-_**	**XTAR018C10C_**
	575	—	15	600		**ECX26F1DAE-_**	**ECX26F4DAE-_**	**ECX26F8DAE-_**	**XTAR018C10D_**

Notes

① 1 hp = 0.746 kW.

② Contact factory for other voltage options.

③ Voltage is listed at 60 Hz unless otherwise noted. Other voltages available upon request.

④ Select proper "XTOB" overload amperage range as per motor FLA, see **Page V10-T3-9**.

⑤ The catalog numbers listed in the Type 4X column are for Type 4X 304-Grade stainless steel, as indicated by the **seventh** digit.
Example: ECX26B**4**AAA-_. To order Type 4X 316-Grade stainless steel, change that digit to **9**. To order Type 4 painted steel, change that digit to **3**.
To order non-metallic, change that digit to **5**. For details on these alternate enclosures, see **Tab 13**.

Class ECX26—Combination Reversing Starter—Circuit Breaker, continued

Amps	Maximum hp ① Motor Voltage ②	Single-Phase	Three-Phase	Coil Voltage at 60 Hz ③	Circuit Breaker	Type 1/IP23 Catalog Number ④	Type 4X/IP66 ⑤ Catalog Number ④	Type 12/IP65 Catalog Number ④	Component Catalog Number ④
Size G									
25	115	2	—	120	50 A	**ECX26G1AAF-_**	**ECX26G4AAF-_**	**ECX26G8AAF-_**	**XTAR025C10A_**
	208	3	7-1/2	208		**ECX26G1EAF-_**	**ECX26G4EAF-_**	**ECX26G8EAF-_**	**XTAR025C10E_**
	230	5	7-1/2	240		**ECX26G1BAF-_**	**ECX26G4BAF-_**	**ECX26G8BAF-_**	**XTAR025C10B_**
	380	—	10	380/50 Hz		**ECX26G1LAF-_**	**ECX26G4LAF-_**	**ECX26G8LAF-_**	**XTAR025C10L_**
	460	—	15	480		**ECX26G1CAF-_**	**ECX26G4CAF-_**	**ECX26G8CAF-_**	**XTAR025C10C_**
	575	—	20	600		**ECX26G1DAF-_**	**ECX26G4DAF-_**	**ECX26G8DAF-_**	**XTAR025C10D_**
Size H									
32	115	3	—	120	50 A	**ECX26H1AAF-_**	**ECX26H4AAF-_**	**ECX26H8AAF-_**	**XTAR032C10A_**
	208	5	10	208		**ECX26H1EAF-_**	**ECX26H4EAF-_**	**ECX26H8EAF-_**	**XTAR032C10E_**
	230	5	10	240		**ECX26H1BAF-_**	**ECX26H4BAF-_**	**ECX26H8BAF-_**	**XTAR032C10B_**
	380	—	15	380/50 Hz		**ECX26H1LAF-_**	**ECX26H4LAF-_**	**ECX26H8LAF-_**	**XTAR032C10L_**
	460	—	20	480		**ECX26H1CAF-_**	**ECX26H4CAF-_**	**ECX26H8CAF-_**	**XTAR032C10C_**
	575	—	25	600		**ECX26H1DAF-_**	**ECX26H4DAF-_**	**ECX26H8DAF-_**	**XTAR032C10D_**
Size J									
40	115	3	—	120	50 A	**ECX26J1AAF-_**	**ECX26J4AAF-_**	**ECX26J8AAF-_**	**XTAR040D00A_**
	208	5	10	208		**ECX26J1EAF-_**	**ECX26J4EAF-_**	**ECX26J8EAF-_**	**XTAR040D00E_**
	230	7-1/2	15	240		**ECX26J1BAF-_**	**ECX26J4BAF-_**	**ECX26J8BAF-_**	**XTAR040D00B_**
	380	—	15	380/50 Hz		**ECX26J1LAF-_**	**ECX26J4LAF-_**	**ECX26J8LAF-_**	**XTAR040D00L_**
	460	—	30	480		**ECX26J1CAF-_**	**ECX26J4CAF-_**	**ECX26J8CAF-_**	**XTAR040D00C_**
	575	—	40	600		**ECX26J1DAF-_**	**ECX26J4DAF-_**	**ECX26J8DAF-_**	**XTAR040D00D_**
Size K									
50	115	3	—	120	70 A	**ECX26K1AAW-_**	**ECX26K4AAW-_**	**ECX26K8AAW-_**	**XTAR050D00A_**
	208	7-1/2	15	208		**ECX26K1EAW-_**	**ECX26K4EAW-_**	**ECX26K8EAW-_**	**XTAR050D00E_**
	230	10	20	240		**ECX26K1BAW-_**	**ECX26K4BAW-_**	**ECX26K8BAW-_**	**XTAR050D00B_**
	380	—	20	380/50 Hz		**ECX26K1LAW-_**	**ECX26K4LAW-_**	**ECX26K8LAW-_**	**XTAR050D00L_**
	460	—	40	480		**ECX26K1CAW-_**	**ECX26K4CAW-_**	**ECX26K8CAW-_**	**XTAR050D00C_**
	575	—	50	600		**ECX26K1DAW-_**	**ECX26K4DAW-_**	**ECX26K8DAW-_**	**XTAR050D00D_**
Size L									
65	115	5	—	120	100 A	**ECX26L1AAW-_**	**ECX26L4AAW-_**	**ECX26L8AAW-_**	**XTAR065D00A_**
	208	10	20	208		**ECX26L1EAW-_**	**ECX26L4EAW-_**	**ECX26L8EAW-_**	**XTAR065D00E_**
	230	15	25	240		**ECX26L1BAW-_**	**ECX26L4BAW-_**	**ECX26L8BAW-_**	**XTAR065D00B_**
	380	—	30	380/50 Hz		**ECX26L1LAW-_**	**ECX26L4LAW-_**	**ECX26L8LAW-_**	**XTAR065D00L_**
	460	—	50	480		**ECX26L1CAW-_**	**ECX26L4CAW-_**	**ECX26L8CAW-_**	**XTAR065D00C_**
	575	—	60	600		**ECX26L1DAW-_**	**ECX26L4DAW-_**	**ECX26L8DAW-_**	**XTAR065D00D_**

Notes

① 1 hp = 0.746 kW.

② Contact factory for other voltage options.

③ Voltage is listed at 60 Hz unless otherwise noted. Other voltages available upon request.

④ Select proper "XTOB" overload amperage range as per motor FLA, see **Page V10-T3-9**.

⑤ The catalog numbers listed in the Type 4X column are for Type 4X 304-Grade stainless steel, as indicated by the **seventh** digit.
Example: ECX26G**4**AAF-_. To order Type 4X 316-Grade stainless steel, change that digit to **9**. To order Type 4 painted steel, change that digit to **3**.
To order non-metallic, change that digit to **5**. For details on these alternate enclosures, see **Tab 13**.

Class ECX26—Combination Reversing Starter—Circuit Breaker, continued

Amps	Maximum hp ① Motor Voltage ②	Single-Phase	Three-Phase	Coil Voltage at 60 Hz ③	Circuit Breaker	Type 1/IP23 Catalog Number ④	Type 4X/IP66 ⑤ Catalog Number ④	Type 12/IP65 Catalog Number ④	Component Catalog Number ④
Size M									
80	115	7-1/2	—	120	100 A	**ECX26M1AAG-_**	**ECX26M4AAG-_**	**ECX26M8AAG-_**	**XTAR080F00A_**
	208	15	25	208		**ECX26M1EAG-_**	**ECX26M4EAG-_**	**ECX26M8EAG-_**	**XTAR080F00E_**
	230	15	30	240		**ECX26M1BAG-_**	**ECX26M4BAG-_**	**ECX26M8BAG-_**	**XTAR080F00B_**
	380	—	50	380/50 Hz		**ECX26M1LAG-_**	**ECX26M4LAG-_**	**ECX26M8LAG-_**	**XTAR080F00L_**
	460	—	60	480		**ECX26M1CAG-_**	**ECX26M4CAG-_**	**ECX26M8CAG-_**	**XTAR080F00C_**
	575	—	75	600		**ECX26M1DAG-_**	**ECX26M4DAG-_**	**ECX26M8DAG-_**	**XTAR080F00D_**
Size N									
95	115	7-1/2	—	120	100 A	**ECX26N1AAG-_**	**ECX26N4AAG-_**	**ECX26N8AAG-_**	**XTAR095F00A_**
	208	15	25	208		**ECX26N1EAG-_**	**ECX26N4EAG-_**	**ECX26N8EAG-_**	**XTAR095F00E_**
	230	15	40	240		**ECX26N1BAG-_**	**ECX26N4BAG-_**	**ECX26N8BAG-_**	**XTAR095F00B_**
	380	—	60	380/50 Hz		**ECX26N1LAG-_**	**ECX26N4LAG-_**	**ECX26N8LAG-_**	**XTAR095F00L_**
	460	—	75	480		**ECX26N1CAG-_**	**ECX26N4CAG-_**	**ECX26N8CAG-_**	**XTAR095F00C_**
	575	—	100	600		**ECX26N1DAG-_**	**ECX26N4DAG-_**	**ECX26N8DAG-_**	**XTAR095F00D_**
Size P									
115	115	10	—	120	150 A	**ECX26P1AAH-_**	**ECX26P4AAH-_**	**ECX26P8AAH-_**	**XTAR115G00A_**
	208	25	40	208		**ECX26P1EAH-_**	**ECX26P4EAH-_**	**ECX26P8EAH-_**	**XTAR115G00E_**
	230	25	50	240		**ECX26P1BAH-_**	**ECX26P4BAH-_**	**ECX26P8BAH-_**	**XTAR115G00B_**
	380	—	60	380/50 Hz		**ECX26P1LAH-_**	**ECX26P4LAH-_**	**ECX26P8LAH-_**	**XTAR115G00L_**
	460	—	100	480		**ECX26P1CAH-_**	**ECX26P4CAH-_**	**ECX26P8CAH-_**	**XTAR115G00C_**
	575	—	125	600		**ECX26P1DAH-_**	**ECX26P4DAH-_**	**ECX26P8DAH-_**	**XTAR115G00D_**

Notes

① 1 hp = 0.746 kW.

② Contact factory for other voltage options.

③ Voltage is listed at 60 Hz unless otherwise noted. Other voltages available upon request.

④ Select proper "XTOB" overload amperage range as per motor FLA, see **Page V10-T3-9**.

⑤ The catalog numbers listed in the Type 4X column are for Type 4X 304-Grade stainless steel, as indicated by the **seventh** digit.
Example: ECX26M**4**AAG-_. To order Type 4X 316-Grade stainless steel, change that digit to **9**. To order Type 4 painted steel, change that digit to **3**.
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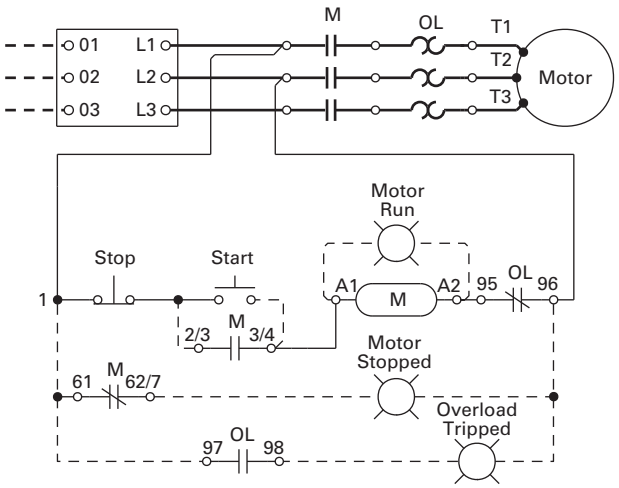
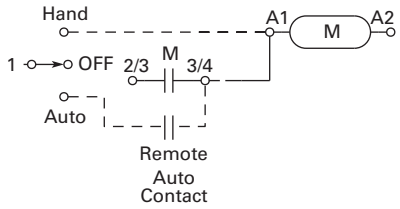
Wiring Diagrams

Typical Wiring Diagram

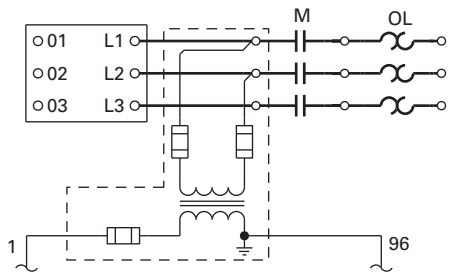
FVNR with Pushbutton Control



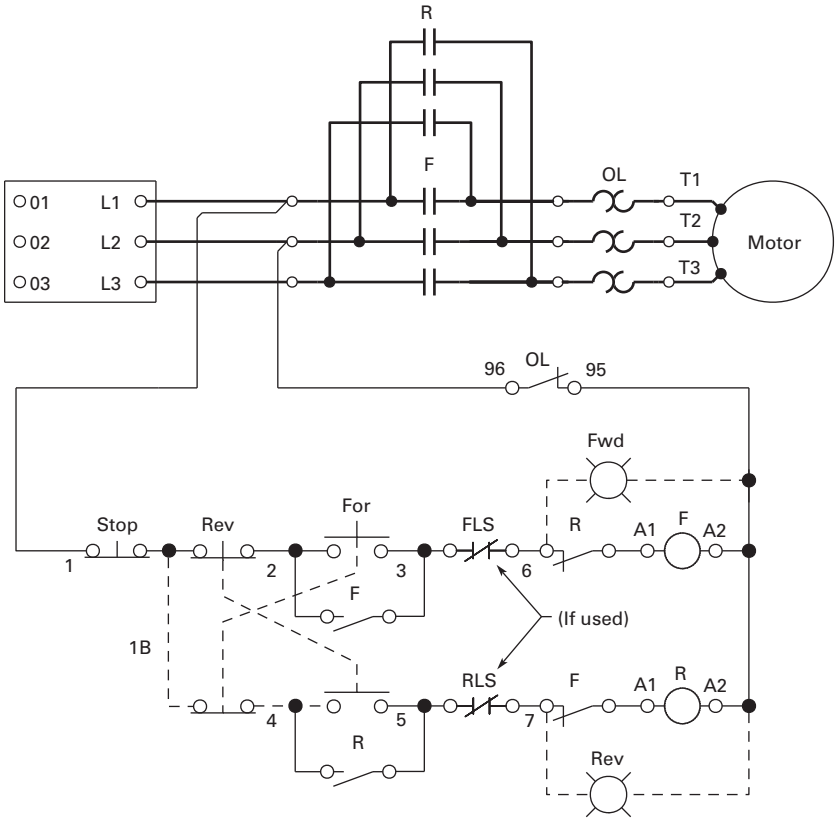
With Three-Position Selector Switch



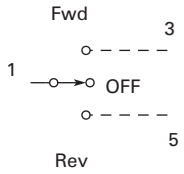
Control Power Transformer Option



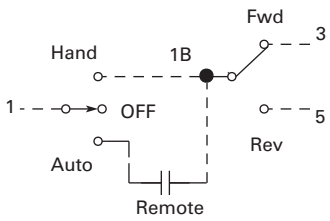
Reversing Combination Starter Wiring



Three-Position Switch



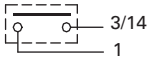
Two- and Three-Position Switch



Non-Combination Starters (Non-Reversing)

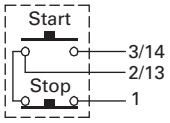
Remote Pilot Devices

Two-Wire Control

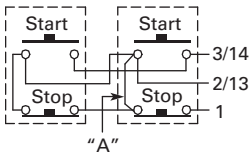


Not for Use with Auto Reset OL Relays

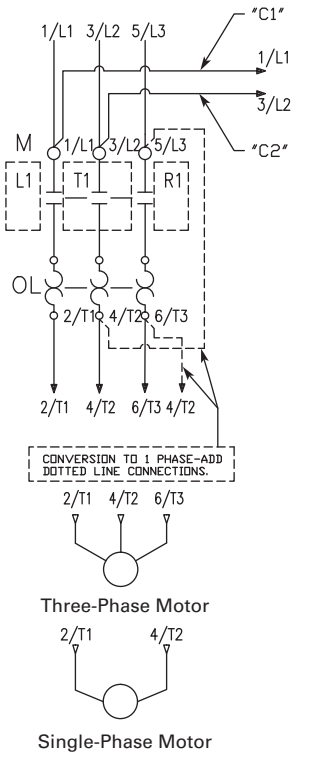
Three-Wire Control



When More than One Pushbutton Station is Used, Omit Connector "A" and Connect per Sketch Below



Connections for Non-Reversing Starter

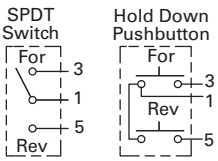


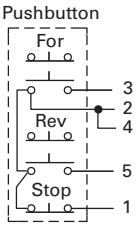
Three-Phase Motor

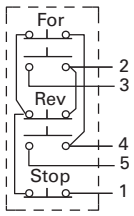
Single-Phase Motor

Non-Combination Starters (Reversing)

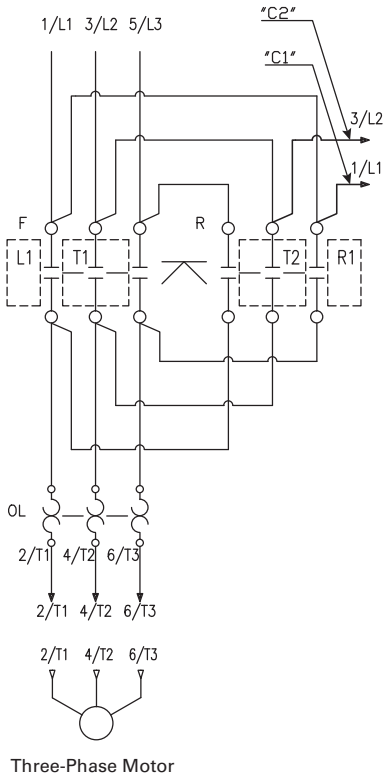
Remote Control Stations



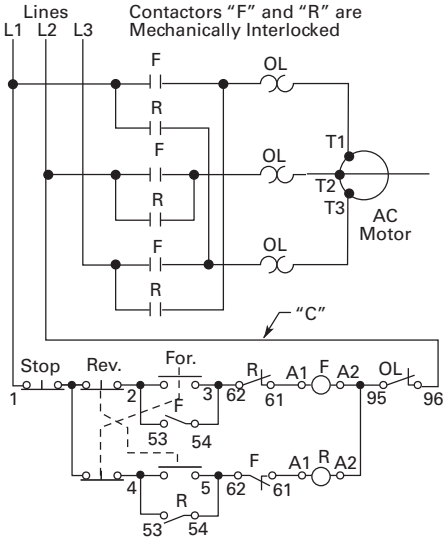




Connections for Reversing Starter



Reversing Starter Elementary Diagram



C400T Control Options

Local Control Options (If used)
Full Voltage Non-Reversing Starters

Figure A START/STOP Pushbuttons

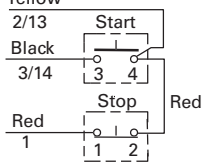


Figure B START/STOP Selector Switch

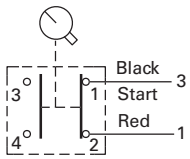


Figure C Three-Position Selector Switch

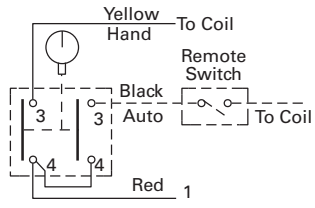


Figure D Two-Positon Selector Switch

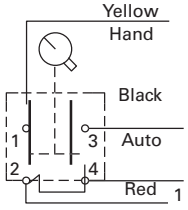


Figure E Pilot Light (Motor RUN)
Connect to Coil Terminals "A1" and "A2"

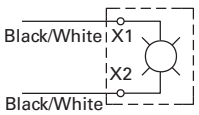


Figure G Overload Tripped

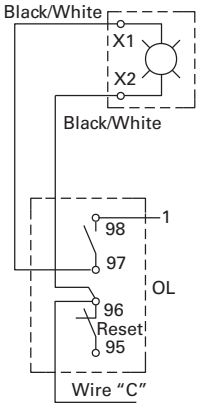
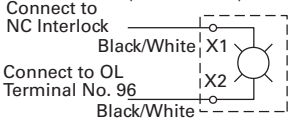


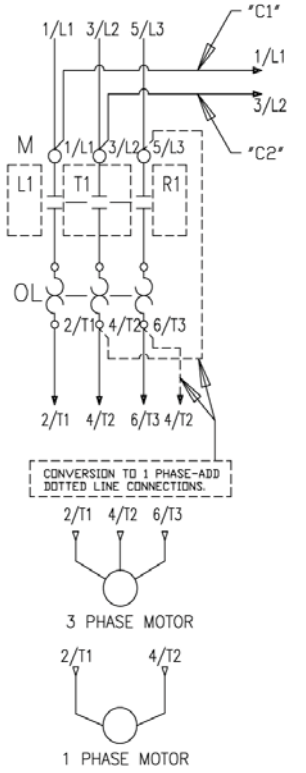
Figure F Pilot Light (Motor STOP)



Non-Reversing Cover Control

Type 1 C600M Control Options (To be used with Box 1 and Box 2 only)

Connections for Non-Reversing Starter



Schematic Symbol Legend

2/13 3/14	Normally Open Auxiliary
61 62	Normally Closed Auxiliary
NO4 NO3	Normally Open Momentary PB
NC1 NC2	Normally Closed Momentary PB
A1 M A2	Contactor Coil
X1 R X2	Red Pilot Light
X1 G X2	Green Pilot Light
95 OL 96	Normally Closed Overload Auxiliary
OL 97 98	Normally Open Overload Auxiliary
1 2	M22-XLED230-T: Used to lower voltage for pilot lights.
STOP/OFF START/ON NO4 NO3	Two-position selector switch (STOP/START, OFF/ON)
HAND 0 AUTO NO4 NO3	Three-position selector switch (HOA)
L1 T1 R1	Signifies Location of Side and Top Adder Auxiliary Referenced on Diagram Under Auxiliary Symbol

CAUTION

READ AND FOLLOW INSTRUCTIONS PRIOR TO WIRING OR CONNECTING POWER! THIS PRODUCT CAN BE FACTORY OR FIELD CONFIGURED FOR MULTIPLE CONTROL MODES OR CONTROL VOLTAGES. CHECK NAMEPLATE FOR COIL VOLTAGE.

SEPARATE CONTROL POWER

FOR COIL VOLTAGES 120V AND LESS: CONNECT SEPARATE CONTROL LINES TO THE NO. 61 TERMINAL ON THE TOP ADDER AUX. AND TO THE NO. 96 TERMINAL ON THE OVERLOAD RELAY.

FOR COIL VOLTAGES GREATER THAN 120V: REMOVE WIRE "C2" IF SUPPLIED. IF WIRE "C1" IS TERMINATED ON L1, DISCONNECT FROM L1. CONNECT SEPARATE CONTROL LINES TO THE "C1" WIRE OR APPROPRIATE PILOT DEVICE TERMINAL PER DIAGRAM AND TO THE NO. 96 TERMINAL ON THE OVERLOAD RELAY.

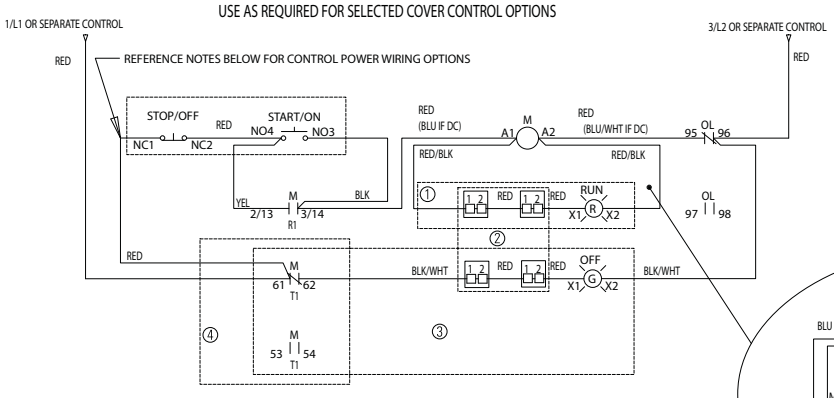
COMMON CONTROL POWER

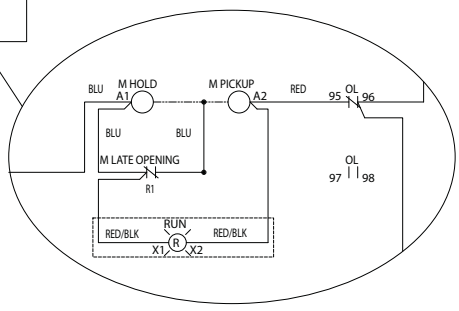
FOR COIL VOLTAGES 120V AND LESS: ADD WIRE "C2" IF NOT SUPPLIED. ADD CONNECTOR BETWEEN L1 TERMINAL AND THE NO. 61 TERMINAL ON THE TOP ADDER AUX. OR APPROPRIATE PILOT DEVICE TERMINAL PER DIAGRAM.

FOR COIL VOLTAGES GREATER THAN 120V: ADD WIRE "C1" AND "C2" IF NOT SUPPLIED.

STOP/START OR OFF/ON OVAL. OPTIONS SHOWN: RUN LIGHT AND OFF LIGHT

DASHED COMPONENTS ARE OPTIONAL
USE AS REQUIRED FOR SELECTED COVER CONTROL OPTIONS





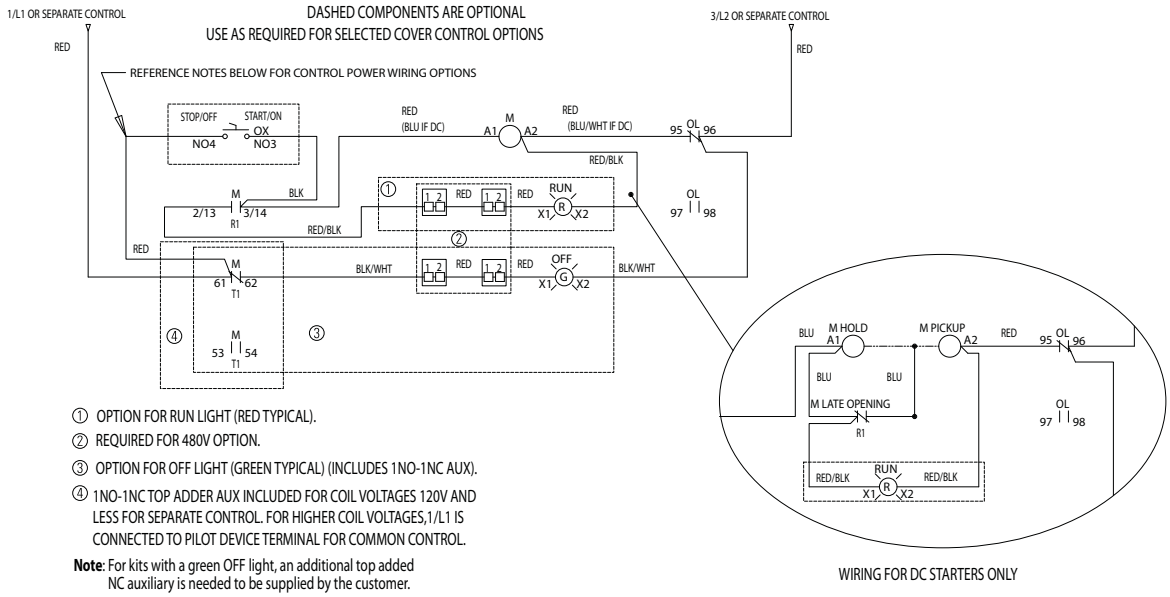
WIRING FOR DC STARTERS ONLY

① OPTION FOR RUN LIGHT (RED TYPICAL).
② REQUIRED FOR 480V OPTION.
③ OPTION FOR OFF LIGHT (GREEN TYPICAL) (INCLUDES 1NO-1NC AUX).
④ 1NO-1NC TOP ADDER AUX INCLUDED FOR COIL VOLTAGES 120V AND LESS FOR SEPARATE CONTROL. FOR HIGHER COIL VOLTAGES,1/L1 IS CONNECTED TO PILOT DEVICE TERMINAL FOR COMMON CONTROL.

Note: For kits with a green OFF light, an additional top added NC auxiliary is needed to be supplied by the customer.

Type 1 C600M Control Options (To be used with Box 1 and Box 2 only)

STOP/START OR OFF/ON 2-POSITION SELECTOR SWITCH
OPTIONS SHOWN: RUN LIGHT, AND OFF LIGHT

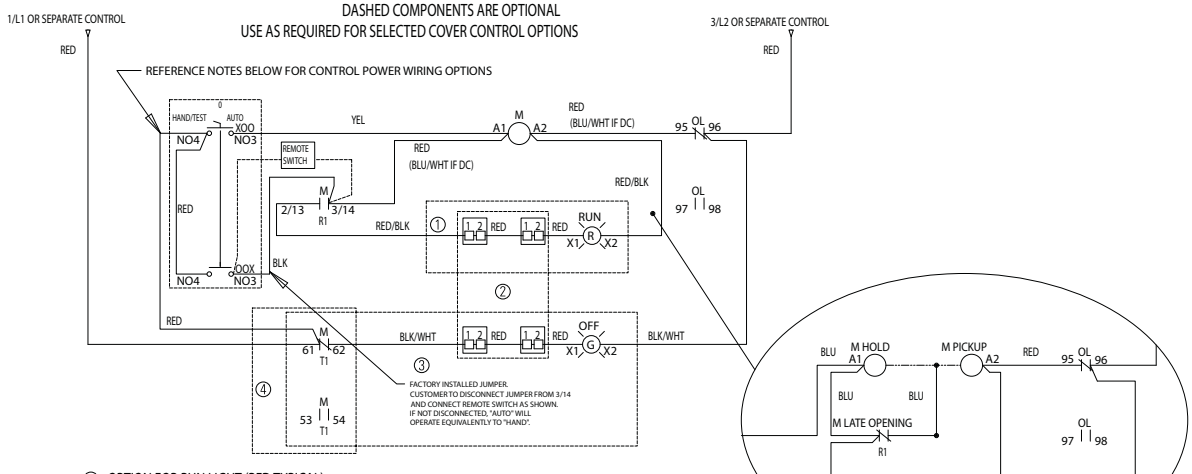


① OPTION FOR RUN LIGHT (RED TYPICAL).
② REQUIRED FOR 480V OPTION.
③ OPTION FOR OFF LIGHT (GREEN TYPICAL) (INCLUDES 1NO-1NC AUX).
④ 1NO-1NC TOP ADDER AUX INCLUDED FOR COIL VOLTAGES 120V AND LESS FOR SEPARATE CONTROL. FOR HIGHER COIL VOLTAGES,1/L1 IS CONNECTED TO PILOT DEVICE TERMINAL FOR COMMON CONTROL.

Note: For kits with a green OFF light, an additional top added NC auxiliary is needed to be supplied by the customer.

WIRING FOR DC STARTERS ONLY

HAND/OFF/AUTO OR TEST/OFF/AUTO 3-POSITION SELECTOR SWITCH
OPTIONS SHOWN: RUN LIGHT, AND OFF LIGHT



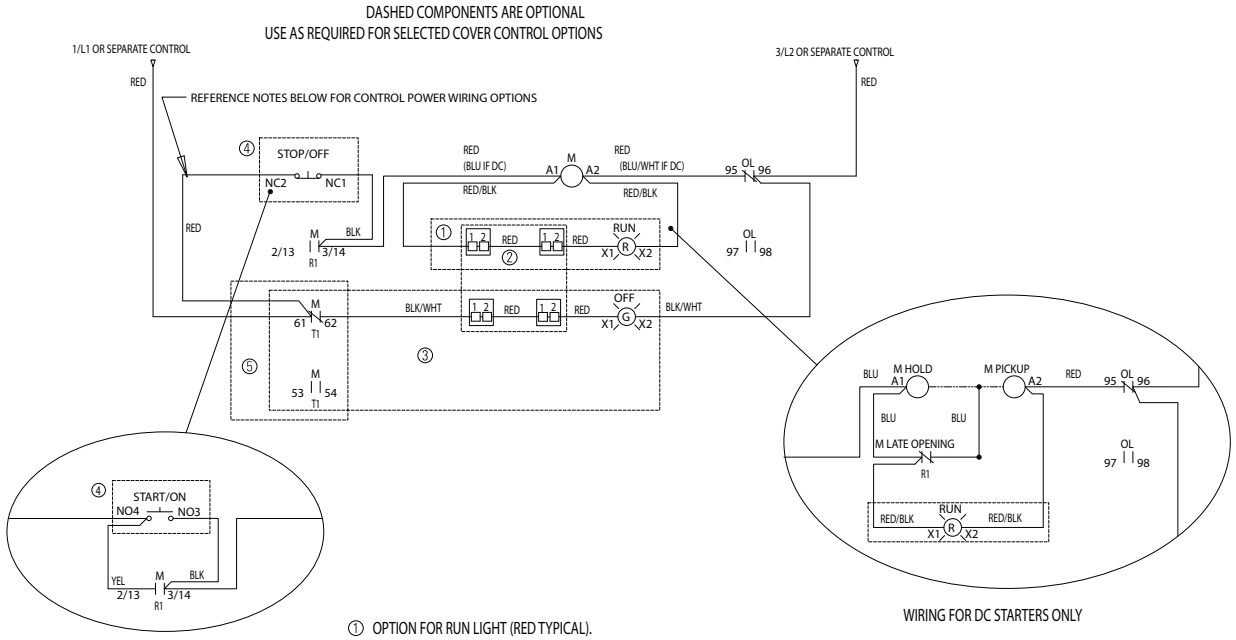
① OPTION FOR RUN LIGHT (RED TYPICAL).
② REQUIRED FOR 480V OPTION.
③ OPTION FOR OFF LIGHT (GREEN TYPICAL) (INCLUDES 1NO-1NC AUX).
④ 1NO-1NC TOP ADDER AUX INCLUDED FOR COIL VOLTAGES 120V AND LESS FOR SEPARATE CONTROL. FOR HIGHER COIL VOLTAGES,1/L1 IS CONNECTED TO PILOT DEVICE TERMINAL FOR COMMON CONTROL.

Note: For kits with a green OFF light, an additional top added NC auxiliary is needed to be supplied by the customer.

WIRING FOR DC STARTERS ONLY

Type 1 C600M Control Options (To be used with Box 1 and Box 2 only)

START/ON OR STOP/OFF PUSHBUTTON OPTIONS SHOWN: RUN LIGHT, AND OFF LIGHT



WIRING FOR START/ON ONLY

WIRING FOR DC STARTERS ONLY

① OPTION FOR RUN LIGHT (RED TYPICAL).

② REQUIRED FOR 480V OPTION.

③ OPTION FOR OFF LIGHT (GREEN TYPICAL) (INCLUDES 1NO-1NC AUX).

④ OPTION FOR START/ON OR STOP/OFF PB.

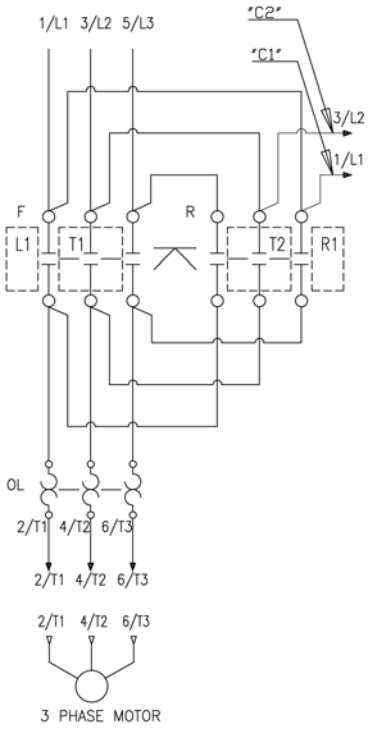
⑤ 1NO-1NC TOP ADDER AUX INCLUDED FOR COIL VOLTAGES 120V AND LESS FOR SEPARATE CONTROL. FOR HIGHER COIL VOLTAGES,1/L1 IS CONNECTED TO PILOT DEVICE TERMINAL FOR COMMON CONTROL.

Note: For kits with a green OFF light, an additional top added NC auxiliary is needed to be supplied by the customer.

Reversing Cover Control

Type 1 C600M Control Options (To be used with Box 1 and Box 2 only)

Connections for Reversing Starter



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2/13 3/14	Normally Open Auxiliary
61 62	Normally Closed Auxiliary
NO4 NO3	Normally Open Momentary PB
NC1 NC2	Normally Closed Momentary PB
A1 M A2	Contactor Coil
X1 R X2	Red Pilot Light
X1 G X2	Green Pilot Light
95 OL 96	Normally Closed Overload Auxiliary
97 OL 98	Normally Open Overload Auxiliary
1 2	M22-XLED230-T: Used to lower voltage for pilot lights.
STOP/OFF START/ON NO4 NO3	Two-position selector switch (STOP/START, OFF/ON)
HAND 0 AUTO NO4 NO3	Three-position selector switch (HOA)
L1 T1 R1	Signifies Location of Side and Top Adder Auxiliary Referenced on Diagram Under Auxiliary Symbol

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SEPARATE CONTROL POWER

FOR COIL VOLTAGES 120V AND LESS: CONNECT SEPARATE CONTROL LINES TO THE NO. 61 TERMINAL ON THE TOP ADDER AUX. AND TO THE NO. 96 TERMINAL ON THE OVERLOAD RELAY.

FOR COIL VOLTAGES GREATER THAN 120V: REMOVE WIRE "C2" IF SUPPLIED. IF WIRE "C1" IS TERMINATED ON L1, DISCONNECT FROM L1. CONNECT SEPARATE CONTROL LINES TO THE "C1" WIRE OR APPROPRIATE PILOT DEVICE TERMINAL PER DIAGRAM AND TO THE NO. 96 TERMINAL ON THE OVERLOAD RELAY.

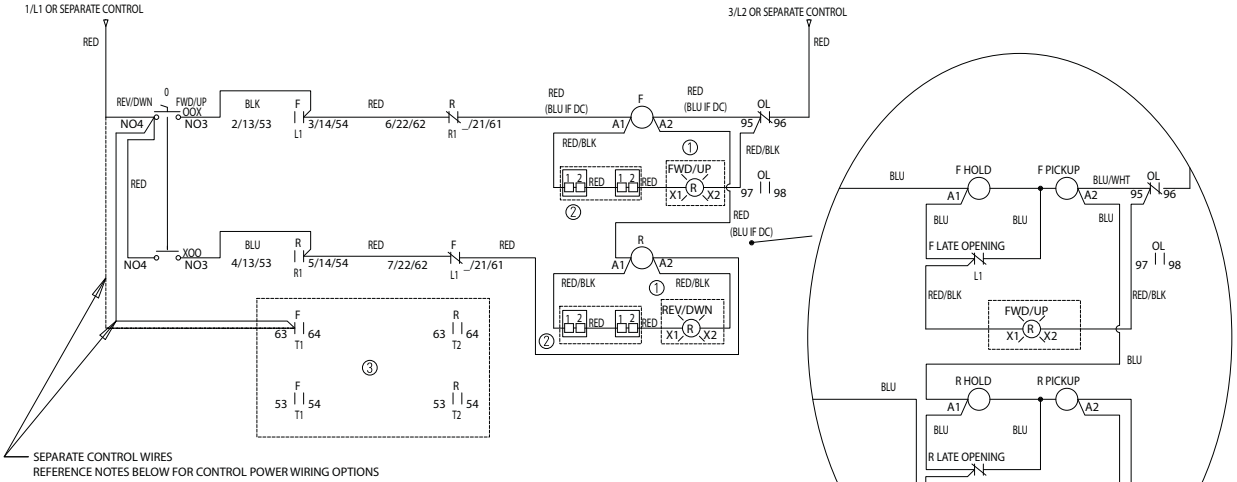
COMMON CONTROL POWER

FOR COIL VOLTAGES 120V AND LESS: ADD WIRE "C2" IF NOT SUPPLIED. ADD CONNECTOR BETWEEN L1 TERMINAL AND THE NO. 61 TERMINAL ON THE TOP ADDER AUX. OR APPROPRIATE PILOT DEVICE TERMINAL PER DIAGRAM.

FOR COIL VOLTAGES GREATER THAN 120V: ADD WIRE "C1" AND "C2" IF NOT SUPPLIED.

REV/OFF/FWD OR DWN/OFF/UP 3-POSITION SELECTOR SWITCH
OPTIONS SHOWN: REV/DWN LIGHT AND FWD/UP LIGHT

DASHED COMPONENTS ARE OPTIONAL
USE AS REQUIRED FOR SELECTED COVER CONTROL OPTIONS



WIRING FOR DC STARTERS ONLY

① OPTION FOR RUN LIGHT (RED TYPICAL).

② REQUIRED FOR 480V OPTION.

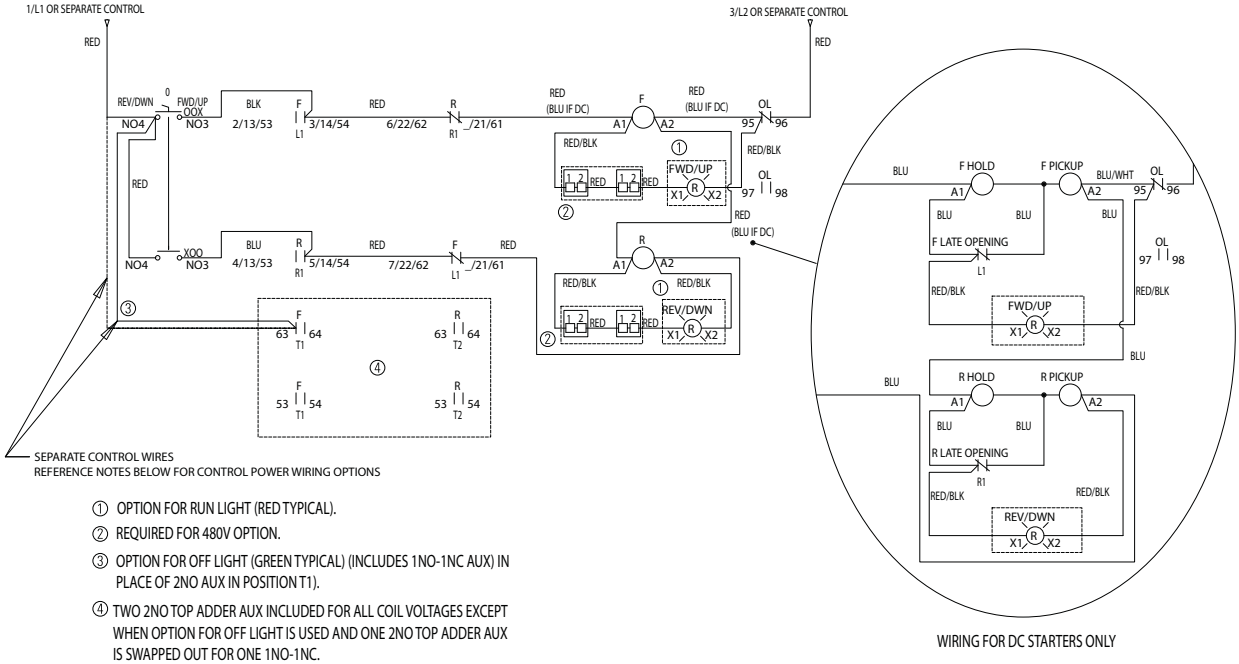
③ TWO 2NO TOP ADDER AUX INCLUDED FOR ALL COIL VOLTAGES. WHEN COIL VOLTAGES 120V AND LESS, CONTROL WIRING ROUTED TO NO. 63 TERMINAL FOR SEPARATE CONTROL.

Note: For kits with a green OFF light, an additional top added NC auxiliary is needed to be supplied by the customer.

Type 1 C600M Control Options (To be used with Box 1 and Box 2 only)

REV/OFF/FWD OR DWN/OFF/UP 3-POSITION SELECTOR SWITCH
OPTIONS SHOWN: REV/DWN LIGHT AND FWD/UP LIGHT

DASHED COMPONENTS ARE OPTIONAL
USE AS REQUIRED FOR SELECTED COVER CONTROL OPTIONS



① OPTION FOR RUN LIGHT (RED TYPICAL).

② REQUIRED FOR 480V OPTION.

③ OPTION FOR OFF LIGHT (GREEN TYPICAL) (INCLUDES 1NO-1NC AUX) IN PLACE OF 2NO AUX IN POSITION T1).

④ TWO 2NO TOP ADDER AUX INCLUDED FOR ALL COIL VOLTAGES EXCEPT WHEN OPTION FOR OFF LIGHT IS USED AND ONE 2NO TOP ADDER AUX IS SWAPPED OUT FOR ONE 1NO-1NC.

Note: For kits with a green OFF light, an additional top added NC auxiliary is needed to be supplied by the customer.

***XT* Compact Combination Starter**

Contents

Description	*Page*
Non-Metallic Enclosure—Contactors and Starters	**V10-T3-2**
Metallic Enclosure—Contactors and Starters	**V10-T3-8**
XT Compact Combination Starter	
Catalog Number Selection	**V10-T3-44**
Product Selection	**V10-T3-45**
Wiring Diagrams	**V10-T3-47**
Dimensions	**V10-T3-51**

3

XT Compact Combination Starter

Product Description

Eaton's *XT* line includes IEC contactors, starters and combination motor controllers (CMCs). Designed to meet international standards, the enclosed control *XT* line (ECX) carries UL and cUL certifications.

Eaton's *XT* compact combination starter was designed utilizing a combination motor controller, which consists of an *XT* contactor and a manual motor protector (MMP). It provides complete motor circuit protection in a cost-effective, compact solution.

Features and Benefits

- UL 508A Type F combination motor controller
- Type 1, 3R and 12 enclosure
- Motor applications from 1 to 65 A (1/2–40 hp)
- Adjustable thermal overload protection (up to 52 A)
- Rotary style disconnect with lockout provision
- Control power transformer (CPT)
- Hand-Off-Auto selector switch and red RUN pilot light
- I/O terminal blocks for remote operation of Hand-Off-Auto (I), Fireman's override (I), Emergency shutdown (I), limit switch (I) and actuator control (O)
- Optional BACnet MS/TP communication module for integration into building automation systems
- Type 1 plastic enclosure with captive screws and cover retention feature
- Single enclosure size for entire offering
- Replaceable components
- High fault short-circuit ratings (SCCR) for coordination into most electrical systems

Standards and Certifications

Note: See **Tab 17** for additional information on standards and certifications that apply to all enclosed control products.

- UL Listed
- cUL Listed (indicates appropriate CSA Standard investigation)

Short-Circuit Current Ratings (SCCR)

- Up to 480 V
  - 65 kAIC from 0.1 to 65 A
- 600 V
  - 18 kAIC from 0.1 to 10 A
  - 30 kAIC from 12 to 32 A
  - 50 kAIC from 32 to 65 A

Additional Reference

Dimensions	**Tab 14**
Accessories and Modifications	**Tab 15**
Renewal Parts	**Tab 16**
Technical Data and Specifications	**Tab 17**

3

Catalog Number Selection

XT Compact Combination Starter—Enclosed Control

EC X 77 D 1 C J B - K _

Design
X = *XT* IEC

Class
77 = Class ECX77—compact combination starter with CPT, manual motor protector (MMP) and *XT* contactor

Size (Contactor)	Frame
D = 12 A	B
H = 32 A	C
L = 65 A	D

Enclosure Type
1 = Type 1—General purpose
2 = Type 3R—Rainproof
8 = Type 12—Dust-tight

CPT Voltage (Primary/Secondary)
B = 240 V / 120 V
C = 480 V / 120 V
D = 600 V / 120 V
E = 208 V / 120 V
Q = 208 V / 24 V
R = 240 V / 24 V
S = 480 V / 24 V
T = 600 V / 24 V

Cover Control
J = HAND/OFF/AUTO selector switch with red RUN light

MMP Rating
B = 0.1–12 A
D = 10–65 A

MMP Overload Range
See table below

Modification (Optional)
Blank = No modification
B24 = BACnet module (24 V)

XTPR MMP Overload Amperage Ranges

XT MMP Catalog Number	Overload Amp Range	Catalog Suffix Code
Frame B Rotary MMP		
XTPR1P6BC1	1–1.6	**F**
XTPR2P5BC1	1.6–2.5	**G**
XTPR004BC1	2.5–4	**H**
XTPR6P3BC1	4–6.3	**J**
XTPR010BC1	6.3–10	**K**
XTPR012BC1	8–12	**L**
Frame D Rotary MMP		
XTPR016DC1	10–16	**M**
XTPR025DC1	16–25	**N**
XTPR032DC1	25–32	**Q**
XTPR040DC1	32–40	**R**
XTPR050DC1	40–52	**S**
XTPR058DC1	50–58	**T**

Field Kits

Description	Catalog Number
BACnet module (24 V)	**ECKIT-BAC24**
BACnet module (24 V) with power supply for 120 V	**ECKIT-BAC120**

Product Selection

Class ECX77—Compact Combination Starter with CPT, Manual Motor Protector (MMP) and *XT* Contactor

Amps	Voltage	Coil Voltage	Horsepower	MMP Overload Range	Catalog Number ①②	SCCR	MMP Part Number	Contactor Part Number
Size D Contactor (Frame B)								
12	208	120	0.5	1.6–2.5	**ECX77D1EJB-G**	65	XTPR2P5BC1	XTCE007B10A
		120	0.75	2.5–4.0	**ECX77D1EJB-H**	65	XTPR004BC1	XTCE007B10A
		120	1	4.0–6.3	**ECX77D1EJB-J**	65	XTPR6P3BC1	XTCE007B10A
		120	2	6.3–11	**ECX77D1EJB-K**	65	XTPR010BC1	XTCE009B10A
		120	3	8–12	**ECX77D1EJB-L**	65	XTPR012BC1	XTCE012B10A
		24	0.5	1.6–2.5	**ECX77D1QJB-G**	65	XTPR2P5BC1	XTCE007B10T
		24	0.75	2.5–4.0	**ECX77D1QJB-H**	65	XTPR004BC1	XTCE007B10T
		24	1	4.0–6.3	**ECX77D1QJB-J**	65	XTPR6P3BC1	XTCE007B10T
		24	2	6.3–11	**ECX77D1QJB-K**	65	XTPR010BC1	XTCE009B10T
		24	3	8–12	**ECX77D1QJB-L**	65	XTPR012BC1	XTCE012B10T
	240	120	0.5	1.6–2.5	**ECX77D1BJB-G**	65	XTPR2P5BC1	XTCE007B10A
		120	0.75	2.5–4.0	**ECX77D1BJB-H**	65	XTPR004BC1	XTCE007B10A
		120	1.5	4.0–6.3	**ECX77D1BJB-J**	65	XTPR6P3BC1	XTCE007B10A
		120	2	6.3–11	**ECX77D1BJB-K**	65	XTPR010BC1	XTCE009B10A
		120	3	8–12	**ECX77D1BJB-L**	65	XTPR012BC1	XTCE012B10A
		24	0.5	1.6–2.5	**ECX77D1RJB-G**	65	XTPR2P5BC1	XTCE007B10T
		24	0.75	2.5–4.0	**ECX77D1RJB-H**	65	XTPR004BC1	XTCE007B10T
		24	1.5	4.0–6.3	**ECX77D1RJB-J**	65	XTPR6P3BC1	XTCE007B10T
		24	2	6.3–11	**ECX77D1RJB-K**	65	XTPR010BC1	XTCE009B10T
		24	3	8–12	**ECX77D1RJB-L**	65	XTPR012BC1	XTCE012B10T
	480	120	0.75	1–1.6	**ECX77D1CJB-F**	65	XTPR1P6BC1	XTCE007B10A
		120	1	1.6–2.5	**ECX77D1CJB-G**	65	XTPR2P5BC1	XTCE007B10A
		120	2	2.5–4.0	**ECX77D1CJB-H**	65	XTPR004BC1	XTCE007B10A
		120	3	4.0–6.3	**ECX77D1CJB-J**	65	XTPR6P3BC1	XTCE007B10A
		120	5	6.3–11	**ECX77D1CJB-K**	65	XTPR010BC1	XTCE009B10A
		120	7.5	8–12	**ECX77D1CJB-L**	65	XTPR012BC1	XTCE012B10A
		24	0.75	1–1.6	**ECX77D1SJB-F**	65	XTPR1P6BC1	XTCE007B10T
		24	1	1.6–2.5	**ECX77D1SJB-G**	65	XTPR2P5BC1	XTCE007B10T
		24	2	2.5–4.0	**ECX77D1SJB-H**	65	XTPR004BC1	XTCE007B10T
		24	3	4.0–6.3	**ECX77D1SJB-J**	65	XTPR6P3BC1	XTCE007B10T
		24	5	6.3–11	**ECX77D1SJB-K**	65	XTPR010BC1	XTCE009B10T
		24	7.5	8–12	**ECX77D1SJB-L**	65	XTPR012BC1	XTCE012B10T
	600	120	0.75	1–1.6	**ECX77D1DJB-F**	18	XTPR1P6BC1	XTCE007B10A
		120	1.5	1.6–2.5	**ECX77D1DJB-G**	18	XTPR2P5BC1	XTCE007B10A
		120	3	2.5–4.0	**ECX77D1DJB-H**	18	XTPR004BC1	XTCE007B10A
		120	5	4.0–6.3	**ECX77D1DJB-J**	18	XTPR6P3BC1	XTCE007B10A
		120	7.5	6.3–11	**ECX77D1DJB-K**	18	XTPR010BC1	XTCE009B10A
		24	0.75	1–1.6	**ECX77D1TJB-F**	18	XTPR1P6BC1	XTCE007B10T
		24	1.5	1.6–2.5	**ECX77D1TJB-G**	18	XTPR2P5BC1	XTCE007B10T
		24	3	2.5–4.0	**ECX77D1TJB-H**	18	XTPR004BC1	XTCE007B10T
		24	5	4.0–6.3	**ECX77D1TJB-J**	18	XTPR6P3BC1	XTCE007B10T
		24	7.5	6.3–11	**ECX77D1TJB-K**	18	XTPR010BC1	XTCE009B10T

① The part numbers listed in the Catalog Number column are for enclosure Type 1, as indicated by the **seventh** digit. Example: ECX77D**1**CJB-K. To order Type 3R, change that digit to **2**. To order Type 12, change that digit to **8**.

② To add a factory-installed BACnet module, add the **B24** modification code to the end of the catalog number. Example: ECX77D1CJB-K**B24**.

Class ECX77—Compact Combination Starter with CPT, Manual Motor Protector (MMP) and *XT* Contactor (Continued)

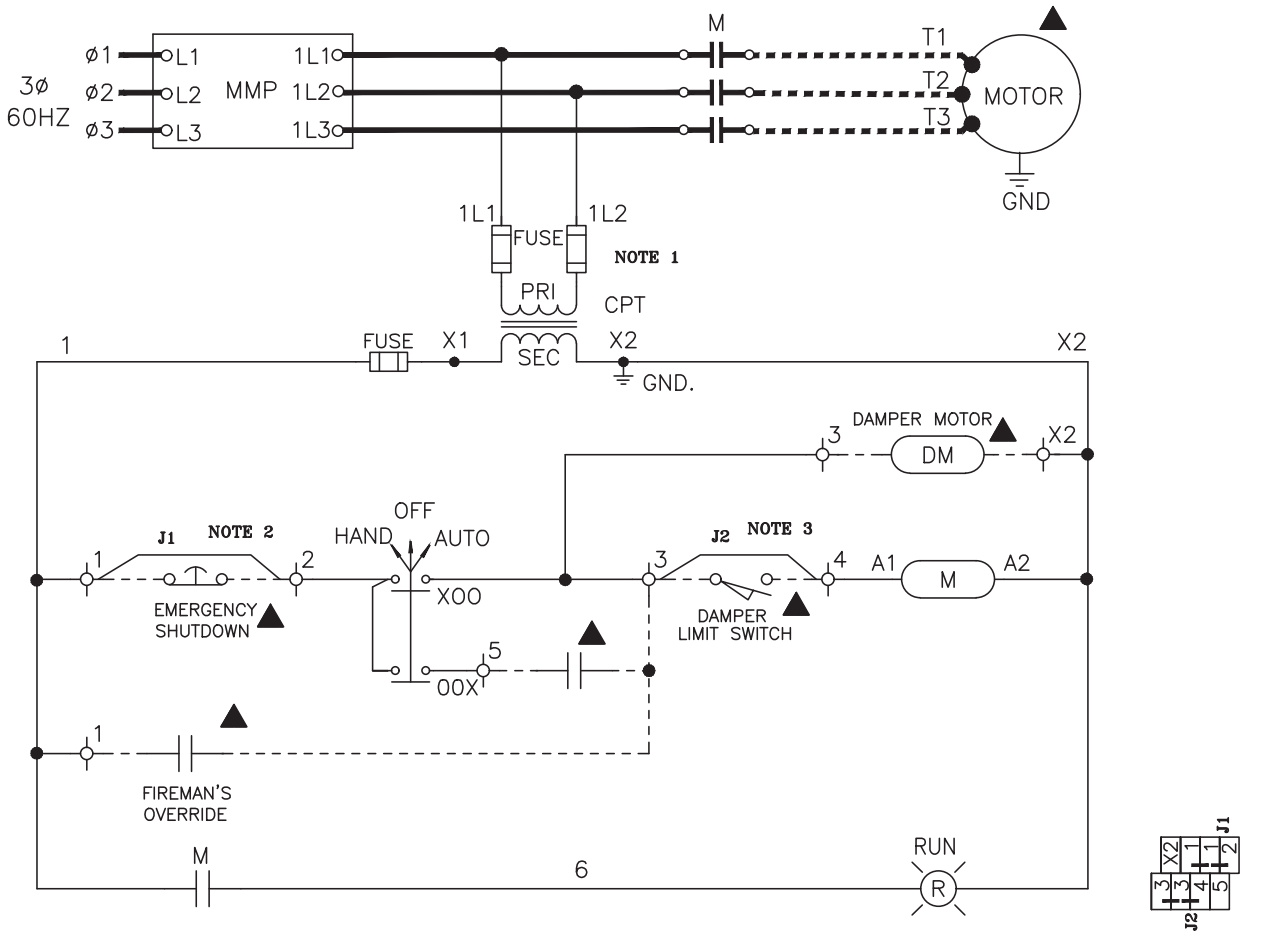
Amps	Voltage	Coil Voltage	Horsepower	MMP Overload Range	Catalog Number ①②	SCCR	MMP Part Number	Contactor Part Number
Size H Contactor (Frame C)								
32	208	120	7.5	16–25	**ECX77H1EJD-N**	65	XTPR025DC1	XTCE025C10A
		120	10	25–32	**ECX77H1EJD-Q**	65	XTPR032DC1	XTCE032C10A
		24	7.5	16–25	**ECX77H1QJD-N**	65	XTPR025DC1	XTCE025C10T
		24	10	25–32	**ECX77H1QJD-Q**	65	XTPR032DC1	XTCE032C10T
	240	120	5	10–16	**ECX77H1BJD-M**	65	XTPR016DC1	XTCE018C10A
		120	7.5	16–25	**ECX77H1BJD-N**	65	XTPR025DC1	XTCE025C10A
		120	10	25–32	**ECX77H1BJD-Q**	65	XTPR032DC1	XTCE032C10A
		24	5	10–16	**ECX77H1RJD-M**	65	XTPR016DC1	XTCE018C10T
		24	7.5	16–25	**ECX77H1RJD-N**	65	XTPR025DC1	XTCE025C10T
		24	10	25–32	**ECX77H1RJD-Q**	65	XTPR032DC1	XTCE032C10T
	480	120	10	10–16	**ECX77H1CJD-M**	65	XTPR016DC1	XTCE018C10A
		120	15	16–25	**ECX77H1CJD-N**	65	XTPR025DC1	XTCE025C10A
		120	20	25–32	**ECX77H1CJD-Q**	65	XTPR032DC1	XTCE032C10A
		24	10	10–16	**ECX77H1SJD-M**	65	XTPR016DC1	XTCE018C10T
		24	15	16–25	**ECX77H1SJD-N**	65	XTPR025DC1	XTCE025C10T
		24	20	25–32	**ECX77H1SJD-Q**	65	XTPR032DC1	XTCE032C10T
	600	120	10	10–16	**ECX77H1DJD-M**	30	XTPR016DC1	XTCE018C10A
		120	20	16–25	**ECX77H1DJD-N**	30	XTPR025DC1	XTCE025C10A
		120	30	25–32	**ECX77H1DJD-Q**	50	XTPR032DC1	XTCE032C10A
		24	10	10–16	**ECX77H1TJD-M**	30	XTPR016DC1	XTCE018C10T
		24	20	16–25	**ECX77H1TJD-N**	30	XTPR025DC1	XTCE025C10T
		24	30	25–32	**ECX77H1TJD-Q**	50	XTPR032DC1	XTCE032C10T
Size L Contactor (Frame D)								
65	208	120	15	40–52	**ECX77L1EJD-S**	65	XTPR050DC1	XTCE050D00A
		24	15	40–52	**ECX77L1QJD-S**	65	XTPR050DC1	XTCE050D00T
	240	120	15	40–52	**ECX77L1BJD-S**	65	XTPR050DC1	XTCE050D00A
		24	15	40–52	**ECX77L1RJD-S**	65	XTPR050DC1	XTCE050D00T
	480	120	30	32–40	**ECX77L1CJD-R**	65	XTPR040DC1	XTCE040D00A
		24	30	32–40	**ECX77L1SJD-R**	65	XTPR040DC1	XTCE040D00T
		120	40	50–58	**ECX77L1CJD-T**	65	XTPR058DC1	XTCE065D00A
		24	40	50–58	**ECX77L1SJD-T**	65	XTPR058DC1	XTCE065D00T

① The part numbers listed in the Catalog Number column are for enclosure Type 1, as indicated by the **seventh** digit. Example: ECX77D**1**CJB-K. To order Type 3R, change that digit to **2**. To order Type 12, change that digit to **8**.

② To add a factory-installed BACnet module, add the **B24** modification code to the end of the catalog number. Example: ECX77D1CJB-K**B24**.

Wiring Diagrams

Combination Starter without BACnet Module



NOTE 1 – CPT DETAILS PER TABLE.1
NOTE 2 – REMOVE JUMPER J1 IN CASE OF EMERGENCY SHUTDOWN
NOTE 3 – REMOVE JUMPER J2 IN CASE OF DAMPER/ACTUATOR CONTROL

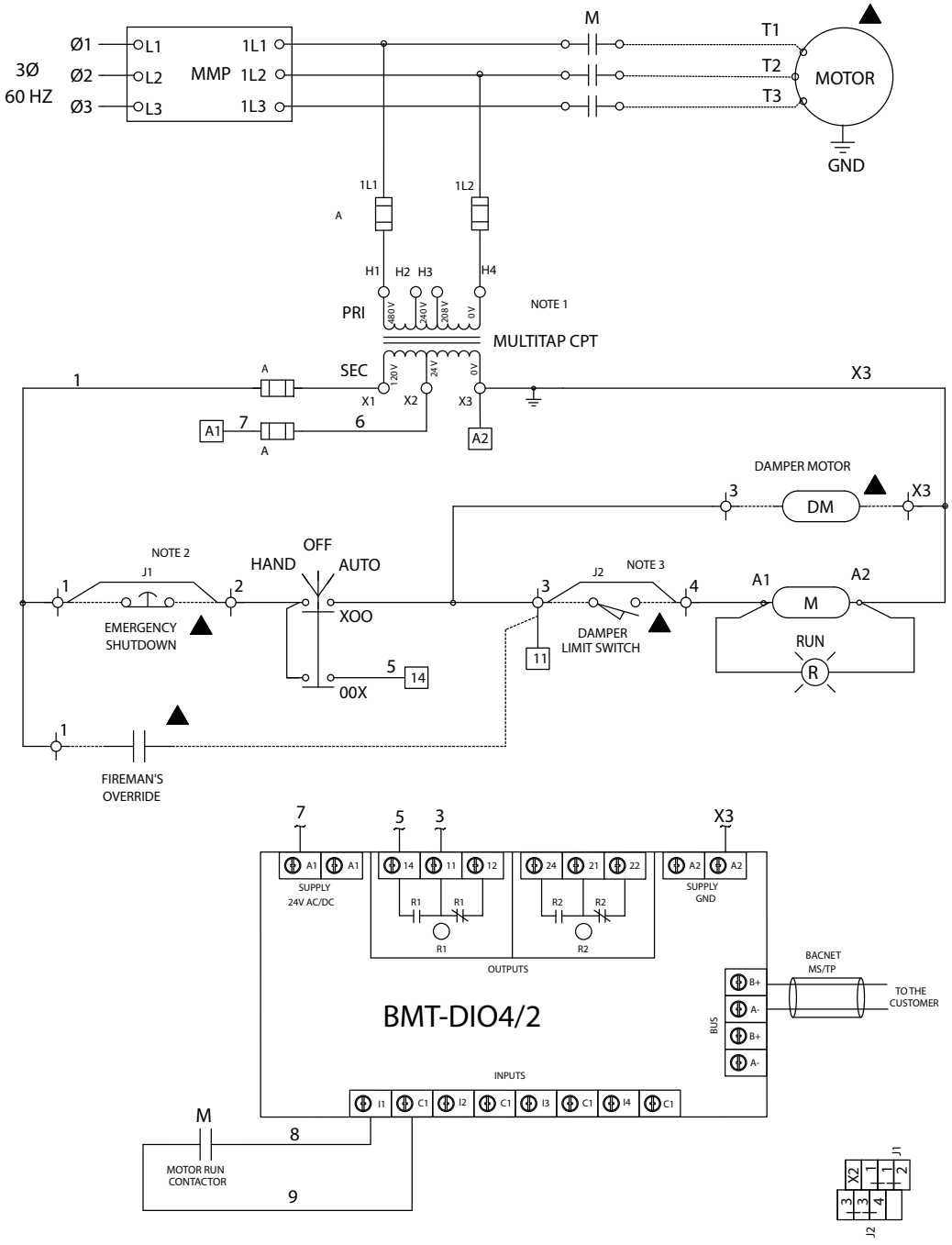
CPT SELECTION (TABLE.1)

PRIMARY	SECONDARY	FRAME COMBO	VA
208VAC	24VAC/ 120VAC	B+B	50
240VAC			
480VAC		D+C/D+D	100
600VAC			

LEGEND:
- TERMINAL POINT
- WIRED BY OTHERS
- DEVICE LOCATED IN FIELD

3

Combination Starter with BACnet Module—120 V Control Power for 208 V, 240 V and 480 V



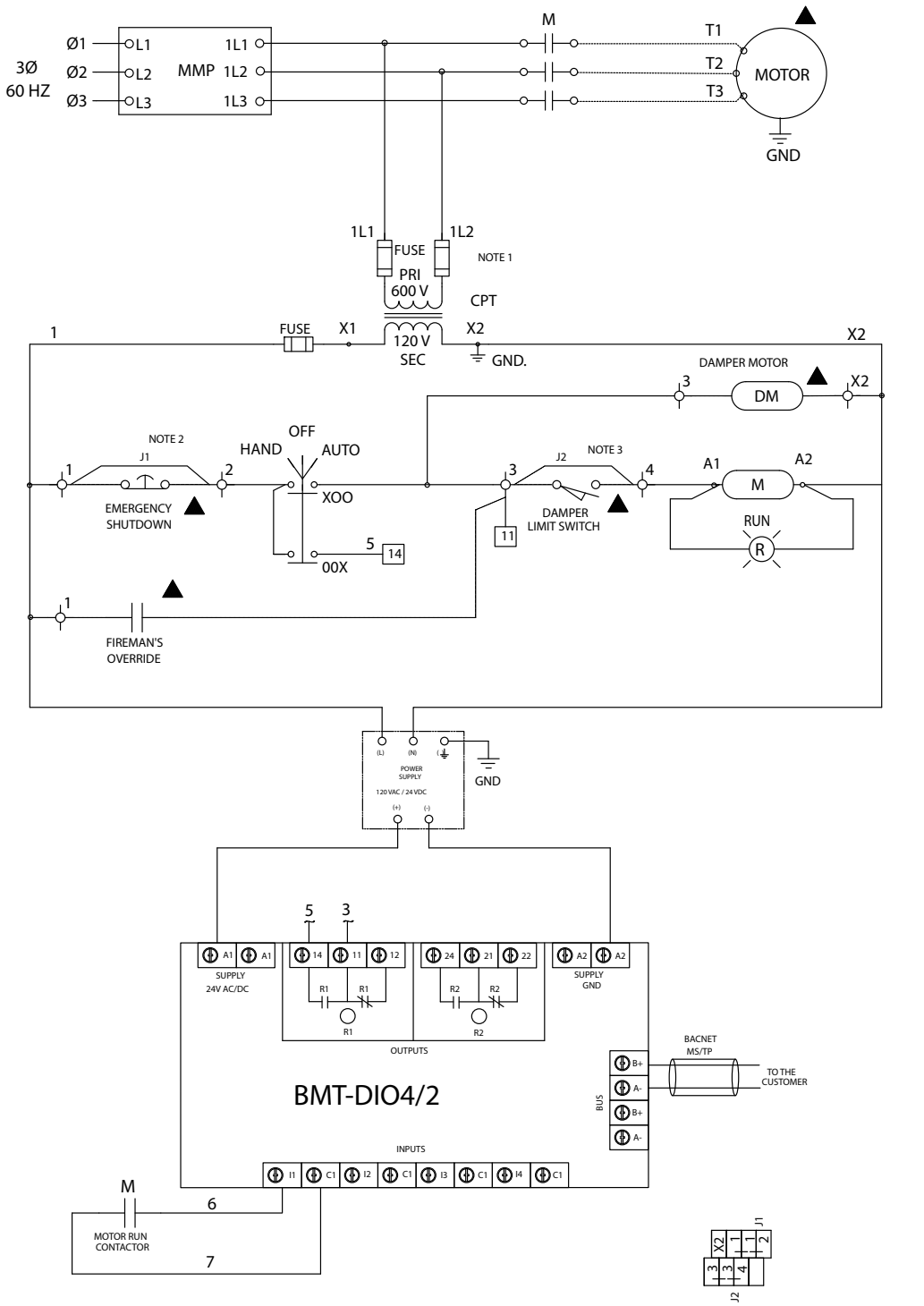
NOTE1 -CPT DETAILS PER TABLE.1
NOTE 2 - REMOVE JUMPER J1 IN CASE OF EMERGENCY SHUTDOWN
NOTE 3 - REMOVE JUMPER J2 IN CASE OF DAMPER/ACTUATOR CONTROL

CPT SELECTION(MULTITAP) (TABLE.1)

PRIMARY	SECONDARY	FRAME COMBO	VA
208 VAC	120 VAC	B+B	50
240 VAC		D+C/D+D	100
480 VAC			

LEGEND:
- TERMINAL POINT
- WIRED BY OTHERS
- DEVICE LOCATED IN FIELD

Combination Starter with BACnet Module—120 V Control Power for 600 V



NOTE1 -CPT DETAILS PER TABLE.1

NOTE 2 - REMOVE JUMPER J1 IN CASE OF EMERGENCY SHUTDOWN

NOTE 3 - REMOVE JUMPER J2 IN CASE OF DAMPER/ACTUATOR CONTROL

CPT SELECTION (TABLE.1)

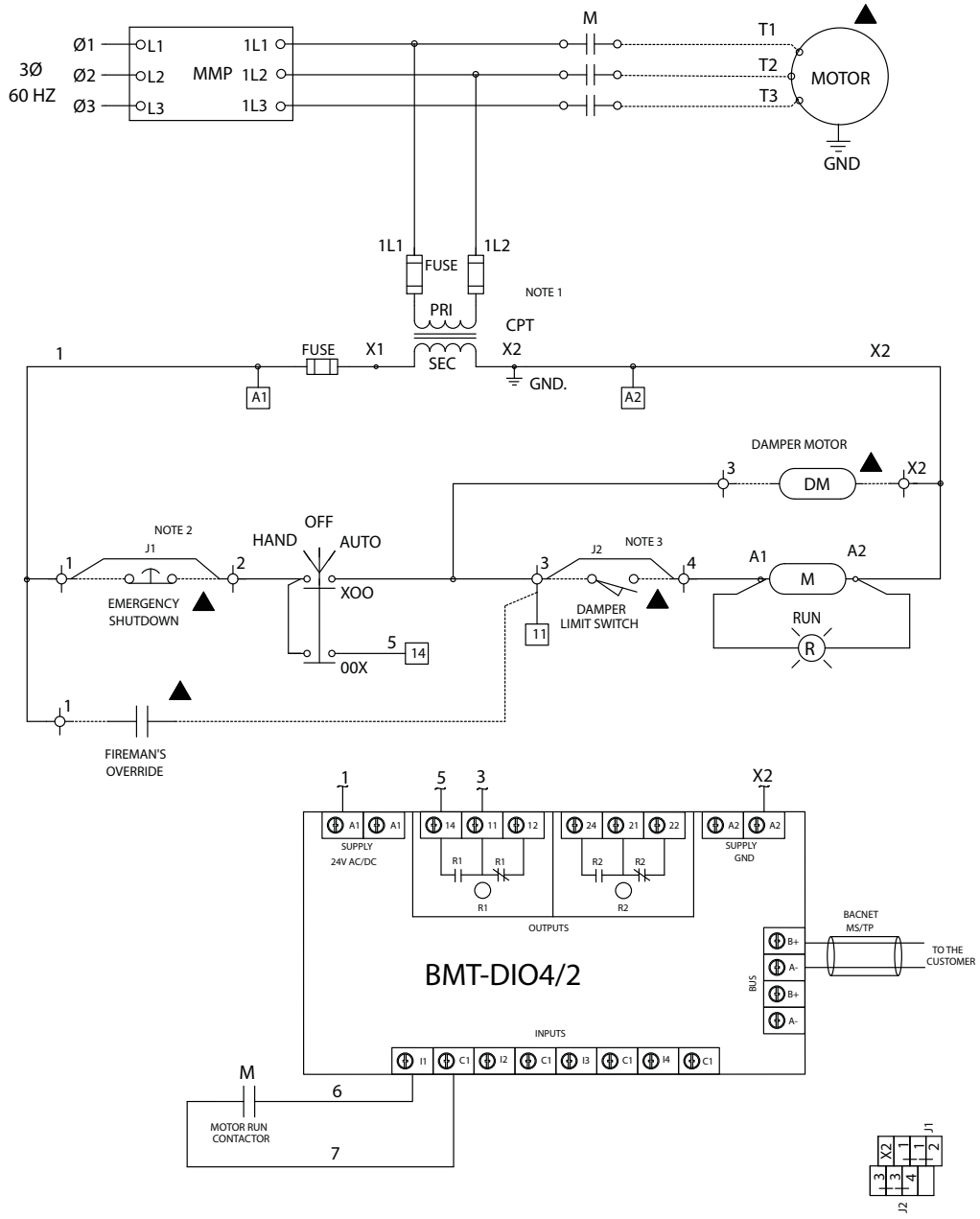
PRIMARY	SECONDARY	FRAME COMBO	VA
600 VAC	120 VAC	B+B	50
		D+C/D+D	100

LEGEND:

- TERMINAL POINT
- WIRED BY OTHERS
- DEVICE LOCATED IN FIELD

3

Combination Starter with BACnet Module—24 V Control Power



NOTE 1 -CPT DETAILS PER TABLE.1

NOTE 2 - REMOVE JUMPER J1 IN CASE OF EMERGENCY SHUTDOWN

NOTE 3 - REMOVE JUMPER J2 IN CASE OF DAMPER/ACTUATOR CONTROL

CPT SELECTION (TABLE.1)

PRIMARY	SECONDARY	FRAME COMBO	VA
208 VAC	24 VAC	B+B	50
240 VAC			
480 VAC		D+C/D+D	100
600 VAC			

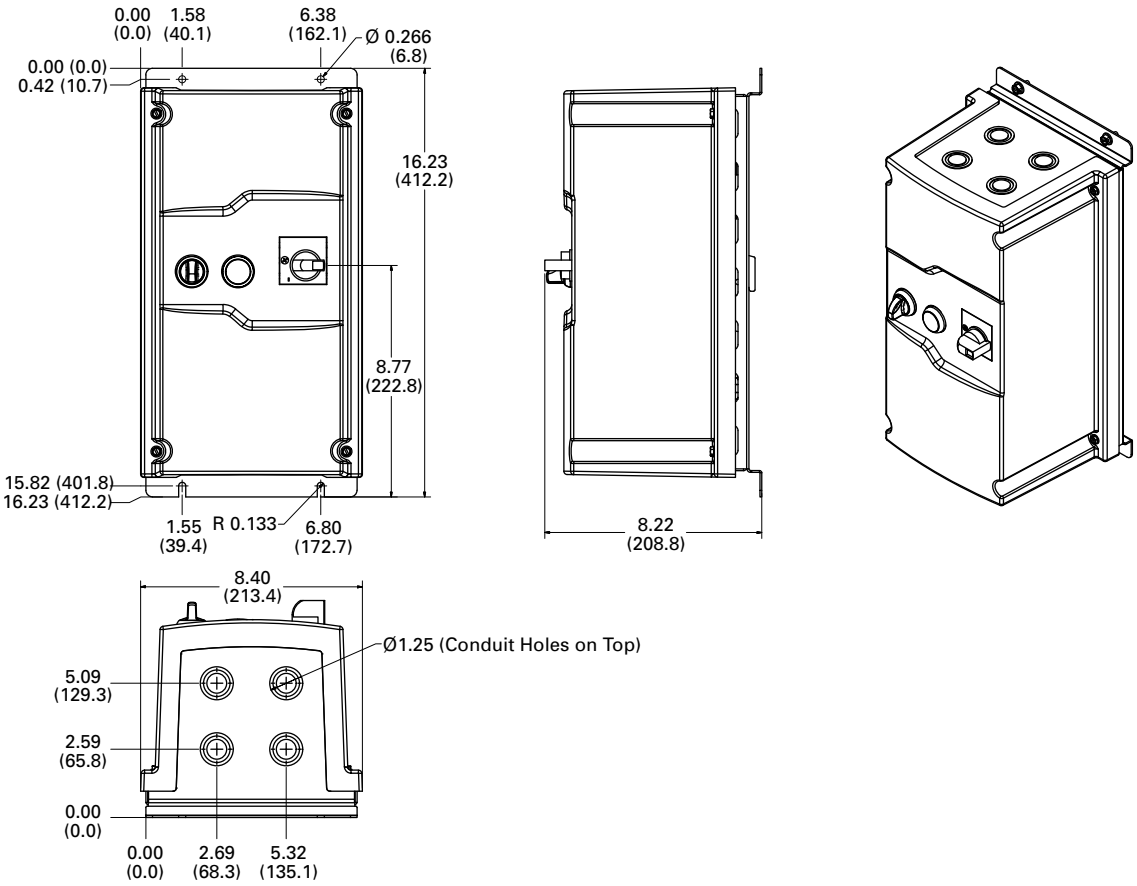
LEGEND:

- - TERMINAL POINT
- - - - - - - WIRED BY OTHERS
- ▲ - DEVICE LOCATED IN FIELD

Dimensions

Approximate Dimensions in Inches (mm)

Enclosure Type 1



Enclosure Type 3R/12