

ECX Enclosed Control



Product Description

The **XT** Line from Eaton's electrical business includes IEC Contactors, Starters and Combination Motor Controllers (CMCs). Designed to meet International Standards, the Enclosed Control **XT** Line (ECX), carries UL, cUL and CSA certifications.

Features and Benefits

- AC control from 12V to 600V 50/60 Hz
- DC control from 12V to 220V
- Available with screw or spring cage terminals
- Reversing or non-reversing contactors and starters
- AC-3 contactor ratings to 1000A and AC-1 contactor ratings to 2000A
- Non-reversing starters to 650A
- Panel or DIN rail mounting to 65A
- IP20 finger and back-of-hand proof
- Large ambient temperature range, -25 to 50°C [-13 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 32A
- Plug-in accessories for reduced installation time
- Nonmetallic and metallic enclosures in Types 1 (IP23), 4 (IP66), 4X (IP66), 2 (IP65) and 3R (IP32)
- Circuit breakers, fused, non-fused and non-combination designs available
- Opaque (standard) or clear covers available on nonmetallic Halcyon enclosure option

Short Circuit Ratings

- Non-fused
 - 0 – 40 hp 5K AIC @ 600V
 - 50 – 300 hp 10K AIC @ 600V
- Fused
 - 100K AIC @ 600V
- HMCP
 - 0 – 5 hp 35K AIC @ 600V
 - 7.5 – 40 hp 5K AIC @ 600V
 - 50 – 200 hp 10K AIC @ 600V
 - 250– 300 hp 35K AIC @ 600V
- Non-combination
 - 0 – 40 hp 5K AIC @ 600V
 - 50 – 300 hp 10K AIC @ 600V
 - Class J Fuses Up Stream Protection 100K AIC @ 600V

Standards and Certifications

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

10250T Selector Switch**Cover Control****Non-combination Starters**

Control Power Transformer (CPT) may be required.

Combination Starters

- Cover control for Combination Starters uses 10250T or M22 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, **Page 13.29**.

Table 4-1. 10250T Style Cover Control**Non-reversing**

Description	Factory Installed Flange Control		Field installation kits	
	Position 9 Alpha		Non-Combination ^① Catalogue Number	Combination Catalogue Number
No Cover Mounted Pilot Devices	A		C400GK0	—
START/STOP Pushbuttons	B		C400GK1	C400T1
with Red RUN Pilot Light	C		C400GK12^②	—
with Red RUN/Green OFF Lights	D		C400GK16^②	—
ON/OFF Pushbuttons	E		—	C400T2
with Red RUN Pilot Light	F		—	—
with Red RUN/Green OFF Lights	G		—	—
HAND/OFF/AUTO Selector Switch	H		C400GK3	C400T12
with Red RUN Pilot Light	J		C400GK32^②	—
with Red RUN/Green OFF Lights	K		C400GK36^②	—
START Pushbutton	L		—	C400T3
ON Pushbutton	M		—	C400T4
OFF Pushbutton	N		—	C400T5
Red RUN Pilot Light	P		C400GK42^②	C400T9^③
Green OFF	Q		C400GK41^②	C400T10^②
Red RUN/Green OFF Pilot Lights	R		C400GK46^②	C400T11^②
START/STOP Selector Switch	S		—	C400T13
with Red RUN Pilot Light	T		—	—
with Red RUN/Green OFF Lights	U		—	—
ON/OFF Selector Switch	V		—	C400T14
with Red RUN Pilot Light	W		—	—
with Red RUN/Green OFF Lights	X		—	—

Reversing

Description	Factory Installed Flange Control		Field installation kits	
	Position 9 Alpha		Non-Combination ^① Catalogue Number	Combination Catalogue Number
No Cover Mounted Pilot Devices	A		C400GK0	—
START/STOP Pushbuttons	B		C400GR1	C400T6
with 2 Red Pilot Light	C		C400GR14^②	—
with 2 Red RUN/1 Green Pilot Lights	D		—	—
UP/STOP/DOWN Pushbuttons	E		C400GR2	C400T2
with 2 Red Pilot Lights	F		C400GR24^②	—
FOR/OFF/REV Selector Switch	H		—	C400T15
with 2 Red Pilot Lights	J		—	—
with 2 Red/1 Green Pilot Lights	K		—	—
Two Red Pilot Lights	P		C400GK42^②	^③
One Green Pilot Light	Q		C400GK41^②	C400T10
Two Red/One Green Pilot Lights	R		—	—
OPEN/OFF/CLOSE Selector Switch	V		—	C400T16
with 2 Red Pilot Lights	W		—	—
with 2 Red/1 Green Pilot Lights	X		—	—

^① Type 1, Non-combination ONLY.

^② Add Code Letter from the table below to Catalogue Number for voltage — Kits only. Example: C400T9**B**.

^③ Order quantity (2) of **C400T10**.

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

Table 4-2. Type 1, 3R, 4X and 12 M22 Style Combination Starter Cover Control

Description	Factory Installed ^①	Field Installation Kits
	Position 9 Cover Control Code	Combination Only Catalogue Number
Non-reversing		
No Cover Mounted Pilot Devices	A	—
START/STOP Pushbuttons (PB))	B	CE400T01
START/STOP PB & Red RUN Light	C	CE400T02^②
START/STOP PB, Red RUN, & Green STOPPED Light	D	CE400T03^②
HAND/OFF/AUTO Selector Switch (SS)	H	CE400T04
H-O-A SS & Red RUN Light	J	CE400T05^②
H-O-A SS & Red RUN, & Green STOPPED Light	K	CE400T06^②
Red RUN Pilot Light	P	CE400T10^②
Green OFF Pilot Light	Q	CE400T11^②
Red RUN/Green OFF Pilot Light	R	CE400T12^②
ON/OFF Selector Switch (SS)	S	CE400T07
ON/OFF SS, Red RUN Light	T	CE400T08^②
ON/OFF SS, Red RUN, & Green STOPPED Light	U	CE400T09^②
Reversing		
No Cover Mounted Pilot Devices	A	—
FWD/REV/STOP Pushbuttons (PB)	B	CE400T50
FWD/REV/STOP PB + Red FWD & REV Lights	C	CE400T51^②
FWD/REV/STOP PB, Red FWD/REV, & Green STOPPED	D	CE400T52^②
FOR/OFF/REV Selector Switch (SS)	H	CE400T53
FOR/OFF/REV SS + Red FWD & REV Lights	J	CE400T54
FOR/OFF/REV SS, Red FWD/REV, & Green STOPPED	K	CE400T55^②
OPEN/OFF/CLOSE Selector Switch (SS)	V	CE400T56
OPEN/OFF/CLOSE SS + Red FWD & REV Lights	W	CE400T57^②
OPEN/OFF/CLOSE SS, Red FWD/REV, & Green STOPPED	X	CE400T58^②

^① To include any of the above cover controls, place the control code character in position 9 of your Catalogue Number and add Mod Code **C29**.

Example: ECX19B4ADA-**C29**.

Full voltage non-reversing fusible starter with START/STOP pushbutton with red RUN and green PFF pilot lights.

^② Suffix for lights (required for field installed kits only) in the table below:

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

Table 4-21. Class 03 — XT Lighting Contactors (Electrically Held) — Non-combination ②

		Type 1/IP23	Type 4X/IP66 ^①	Type 12/IP65	Component
Amps ^④	Number of Poles	Catalogue Number ^③	Catalogue Number ^③	Catalogue Number ^③	Catalogue Number ^③
Frame D					
20	3	ECX03D1_3A	ECX03D4_3A	ECX03D8_3A	XTCE012B10_
	4	ECX03D1_4A	ECX03D4_4A	ECX03D8_4A	XTCF020B00_
	6	ECX03D1_6A	ECX03D4_6A	ECX03D8_6A	-
	9	ECX03D1_9A	ECX03D4_9A	ECX03D8_9A	-
	10	ECX03D1_AA	ECX03D4_AA	ECX03D8_AA	-
	12	ECX03D1_BA	ECX03D4_BA	ECX03D8_BA	-
Frame F					
25	3	ECX03F1_3A	ECX03F4_3A	ECX03F8_3A	XTCE018C10_
	4	ECX03F1_4A	ECX03F4_4A	ECX03F8_4A	XTCF032C10_
	6	ECX03F1_6A	ECX03F4_6A	ECX03F8_6A	-
	9	ECX03F1_9A	ECX03F4_9A	ECX03F8_9A	-
	10	ECX03F1_AA	ECX03F4_AA	ECX03F8_AA	-
	12	ECX03F1_BA	ECX03F4_BA	ECX03F8_BA	-
Frame G					
35	3	ECX03G1_3A	ECX03G4_3A	ECX03G8_3A	XTCE025C10_
	4	ECX03G1_4A	ECX03G4_4A	ECX03G8_4A	XTCF045C10_
	6	ECX03G1_6A	ECX03G4_6A	ECX03G8_6A	-
	9	ECX03G1_9A	ECX03G4_9A	ECX03G8_9A	-
	10	ECX03G1_AA	ECX03G4_AA	ECX03G8_AA	-
	12	ECX03G1_BA	ECX03G4_BA	ECX03G8_BA	-
Frame J					
60	3	ECX03J1_3A	ECX03J4_3A	ECX03J8_3A	XTCE040D00_
	4	ECX03J1_4A	ECX03J4_4A	ECX03J8_4A	XTCF063D00_
	6	ECX03J1_6A	ECX03J4_6A	ECX03J8_6A	-
	9	ECX03J1_9A	ECX03J4_9A	ECX03J8_9A	-
	10	ECX03J1_AA	ECX03J4_AA	ECX03J8_AA	-
	12	ECX03J1_BA	ECX03J4_BA	ECX03J8_BA	-
Frame K					
70	3	ECX03K1_3A	ECX03K4_3A	ECX03K8_3A	XTCE050D00_
	4	ECX03K1_4A	ECX03K4_4A	ECX03K8_4A	XTCF080D00_
	6	ECX03K1_6A	ECX03K4_6A	ECX03K8_6A	-
	9	ECX03K1_9A	ECX03K4_9A	ECX03K8_9A	-
	10	ECX03K1_AA	ECX03K4_AA	ECX03K8_AA	-
	12	ECX03K1_BA	ECX03K4_BA	ECX03K8_BA	-
Frame L					
80	3	ECX03L1_3A	ECX03L4_3A	ECX03L8_3A	XTCE065D00_
	4	ECX03L1_4A	ECX03L4_4A	ECX03L8_4A	XTCF125G00_
	6	ECX03L1_6A	ECX03L4_6A	ECX03L8_6A	-
	9	ECX03L1_9A	ECX03L4_9A	ECX03L8_9A	-
	10	ECX03L1_AA	ECX03L4_AA	ECX03L8_AA	-
	12	ECX03L1_BA	ECX03L4_BA	ECX03L8_BA	-
Frame N					
100	3	ECX03N1_3A	ECX03N4_3A	ECX03N8_3A	XTCE095F00_
	4	ECX03N1_4A	ECX03N4_4A	ECX03N8_4A	XTCF160G00_
	6	ECX03N1_6A	ECX03N4_6A	ECX03N8_6A	-
	9	ECX03N1_9A	ECX03N4_9A	ECX03N8_9A	-
	10	ECX03N1_AA	ECX03N4_AA	ECX03N8_AA	-
	12	ECX03N1_BA	ECX03N4_BA	ECX03N8_BA	-

① These are the Catalogue Numbers for Type 4X 304-Grade Stainless Steel, as indicated by the seventh digit **4**. Example: ECX03D**4**A3A. 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 Nonmetallic, change that digit to **5**.

② To order Type 3R Rainproof, change the seventh digit to **2**.

③ Select proper coil voltage as per **Table 4-3**.

④ Current rating is for ballast load.