

# 3.1

## IEC Contactors and Starters

**XT** IEC Power Control

IEC Non-Metallic Enclosure—Contactors and Starters

3



### Contents

<i>Description</i>	<i>Page</i>
Non-Metallic Enclosure—Contactors and Starters	
Catalog Number Selection . . . . .	<b>V10-T3-3</b>
Cover Control Options . . . . .	<b>V10-T3-3</b>
Product Selection . . . . .	<b>V10-T3-4</b>
Metallic Enclosure—Contactors and Starters . . . . .	<b>V10-T3-8</b>
Combination Motor Controllers . . . . .	<b>V10-T3-43</b>

### 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 starters 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 starter 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.

#### 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

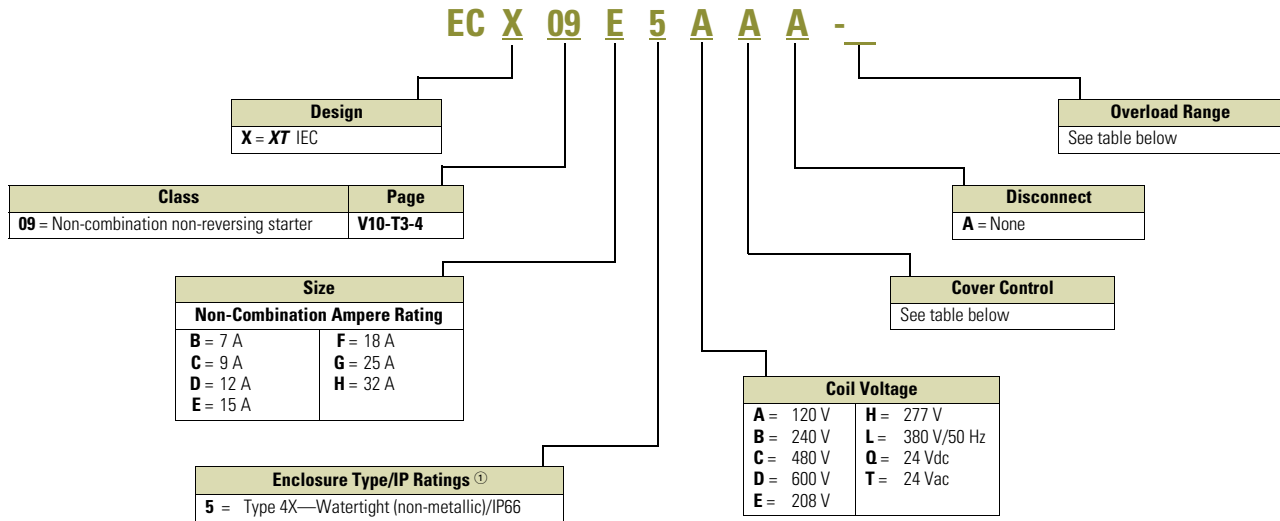
- Red light 85–264 Vac
- Red light 12–30 Vac/Vdc
- Without illumination

#### Additional Reference

Cover Control . . . . .	<b>V10-T3-3</b>
Dimensions . . . . .	<b>Tab 14</b>
Accessories and Modifications . . . . .	<b>Tab 15</b>
Renewal Parts . . . . .	<b>Tab 16</b>
Technical Data and Specifications . . . . .	<b>Tab 17</b>

**Catalog Number Selection**

**XT IEC Line Non-Metallic Enclosed Control**



**XTOB Overload Relays for Enclosed XT**

FLA Ratings	Size B–E 7–15 A	Size F–H 18–32 A	FLA Ratings	Size B–E 7–15 A	Size F–H 18–32 A
0.1–0.16	A	A	4–6	I	I
0.16–0.24	B	B	6–10	J	J
0.24–0.4	C	C	9–12	K	—
0.4–0.6	D	D	10–16	—	L
0.6–1	E	E	12–16	L	—
1–1.6	F	F	16–24	—	M
1.6–2.4	G	G	24–32	—	N
2.4–4	H	H			

**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**



**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**

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