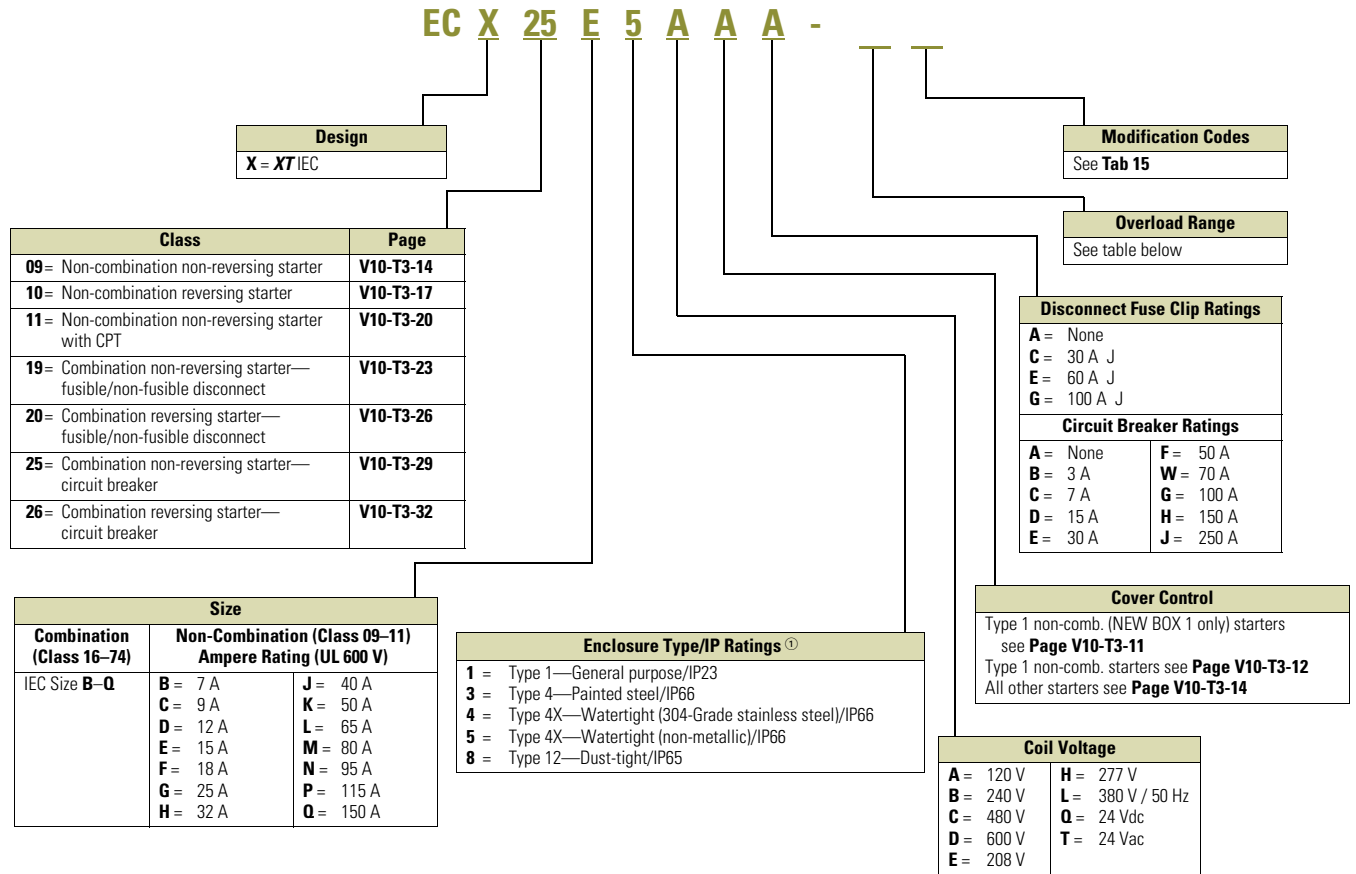


Catalog Number Selection

XT IEC Line Metallic Enclosed Control



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.

Combination Starters

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

Amps	Maximum hp ^①		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
	Motor Voltage ^②	Single-Phase						
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: ECX19B4AAA_- . 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**.