

Product Selection  
Non-reversing Contactors

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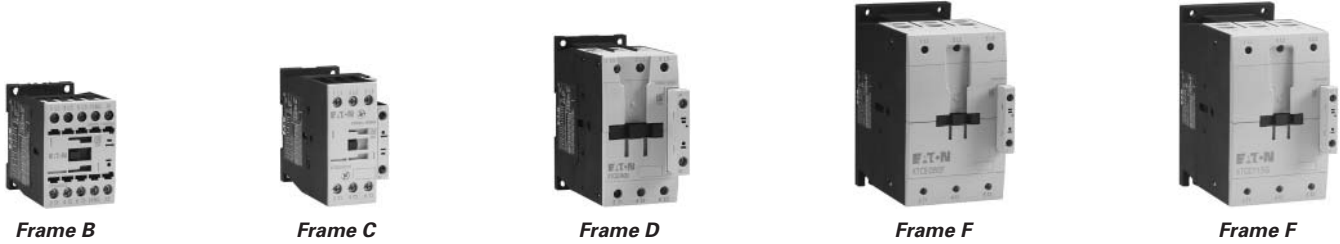


Table 34-49. Full Voltage Non-reversing 3-Pole Contactors, Frame B – Frame G

UL/CSA Ratings								IEC Ratings				Aux. Contacts				Catalog Number — Screw Terminals ①②		Price U.S. \$	
UL General Purpose Amp Rating	1-Phase hp Ratings			3-Phase hp Ratings				AC-3 I <sub>e</sub> (A)	AC-1 (40°C) I <sub>e</sub> = I <sub>th</sub> (A)	Maximum kW Ratings AC-3 3-Phase Motors 50 – 60 Hz				1NO 1NC 1NO-1NC			AC Coil	DC Coil	
	115V	200V	230V	200V	230V	460V	575V			220/230V	380/400V	415V	660/690V						
<b>Frame B</b>																			
20	1/4	3/4	1	1-1/2	2	3	5	7	22	2.2	3	4	3.5	1NO	XTCE007B10_				
20	1/4	3/4	1	1-1/2	2	3	5	7	22	2.2	3	4	3.5	1NC	XTCE007B01_				
20	1/2	1	1-1/2	3	3	5	7-1/2	9	22	2.5	4	5.5	4.5	1NO	XTCE009B10_				
20	1/2	1	1-1/2	3	3	5	7-1/2	9	22	2.5	4	5.5	4.5	1NC	XTCE009B01_				
20	1	2	2	3	3	10 <sup>③</sup>	10	12	22	3.5	5.5	7	6.5	1NO	XTCE012B10_				
20	1	2	2	3	3	10 <sup>③</sup>	10	12	22	3.5	5.5	7	6.5	1NC	XTCE012B01_				
20	1	2	3	5	5	10 <sup>③</sup>	10	15.5	22	4	7.5	8	7	1NO	XTCE015B10_				
20	1	2	3	5	5	10 <sup>③</sup>	10	15.5	22	4	7.5	8	7	1NC	XTCE015B01_				
<b>Frame C</b>																			
40	2	2	3	5	5	10 <sup>③</sup>	15	18	40	5	7.5	10	11	1NO	XTCE018C10_				
40	2	2	3	5	5	10 <sup>③</sup>	15	18	40	5	7.5	10	11	1NC	XTCE018C01_				
40	2	3	5	7-1/2	10	15	20	25	45	7.5	11	14.5	14	1NO	XTCE025C10_				
40	2	3	5	7-1/2	10	15	20	25	45	7.5	11	14.5	14	1NC	XTCE025C01_				
40	3	5	5	10	10	20	25	32	45	10	15	18	17	1NO	XTCE032C10_				
40	3	5	5	10	10	20	25	32	45	10	15	18	17	1NC	XTCE032C01_				
<b>Frame D</b>																			
63	3	5	7-1/2	10	15	30	40	40	60	12.5	18.5	24	23	—	XTCE040D00_				
63	3	5	7-1/2	10	15	30	40	40	60	12.5	18.5	24	23	1NO-1NC	XTCE040DS1_				
80	3	7-1/2	10	15	20	40	50	50	80	15.5	22	30	30	—	XTCE050D00_				
80	3	7-1/2	10	15	20	40	50	50	80	15.5	22	30	30	1NO-1NC	XTCE050DS1_				
88	5	10	15	20	25	50	60	65	98	20	30	39	35	—	XTCE065D00_				
88	5	10	15	20	25	50	60	65	98	20	30	39	35	1NO-1NC	XTCE065DS1_				
88	5	10	15	20	25	50	60	72	98	22	37	41	35	—	XTCE072D00_				
88	5	10	15	20	25	50	60	72	98	22	37	41	35	1NO-1NC	XTCE072DS1_				
<b>Frame F</b>																			
125	7-1/2	15	15	25	30	60	75	80	110	25	37	48	63	—	XTCE080F00_				
125	7-1/2	15	15	25	30	60	75	80	110	25	37	48	63	1NO-1NC	XTCE080FS1_				
125	7-1/2	15	15	25	40	75	100	95	130	30	45	57	75	—	XTCE095F00_				
125	7-1/2	15	15	25	40	75	100	95	130	30	45	57	75	1NO-1NC	XTCE095FS1_				
<b>Frame G</b>																			
160	10	25	25	40	50	100	100	115	160	37	55	70	90	—	XTCE115G00_				
160	10	25	25	40	50	100	100	115	160	37	55	70	90	1NO-1NC	XTCE115GS1_				
180	10	25	30	40	60	125	125	150	190	48	75	91	96	—	XTCE150G00_				
180	10	25	30	40	60	125	125	150	190	48	75	91	96	1NO-1NC	XTCE150GS1_				
225 <sup>④</sup>	10	25	30	40	60	125	125	170	275 <sup>⑤</sup>	52	90	100	96	—	XTCE170G00_				
225 <sup>④</sup>	10	25	30	40	60	125	125	170	275 <sup>⑤</sup>	52	90	100	96	1NO-1NC	XTCE170GS1_				

- ① Underscore ( \_ ) indicates magnet coil suffix required. See Table 34-58, Page 34-38.
- ② For Spring Cage Terminals, insert **C** after the fourth digit of the Catalog Number. Example: XTCEC007B10A. For 7 – 12A XTCEC Contactors, the power, auxiliary and coil terminals are spring cage. For 18 – 32A XTCEC Contactors, the auxiliary and coil terminals are spring cage. For 40 – 150A XTCEC Contactors, the coil terminals only are spring cage.
- ③ For electrical life contactor application data, see Table 34-51, Page 34-35.
- ④ For 180 – 225A, use 2 x 3/0 AWG wire.
- ⑤ For 225 – 275A, use 2 x 70 mm<sup>2</sup> wire.

Notes:

The 7 – 32A XTCE Contactors have positively driven contacts between the integrated auxiliary contact and the auxiliary contact module as well as within the auxiliary contact modules.

The 40 – 65A XTCE Contactors have positively driven contacts within the auxiliary contact module. 6 auxiliary contacts are possible with a combination of side mounted and front mount auxiliary contacts.

DC operated contactors (Frames B – G, 7 – 150A) have a built-in suppressor circuit.

Frame B – C contactors with 1NC built-in auxiliary are mirror contacts (XTCE...B01\_ – XTCE...C01\_).

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 Coil Voltage Chart ..... Page 34-38  
 Accessories ..... Page 34-49  
 Dimensions ..... Page 34-91  
 Overload Relays ..... Page 34-104  
 Discount Symbol ..... 1CD7

**Contactors and Starters**

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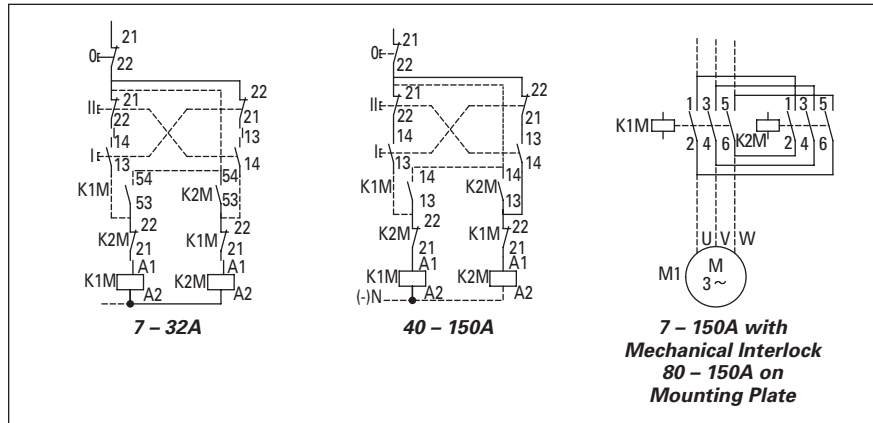
**Table 34-58. Magnet Coil Suffix**

Coil Voltage	Suffix Code
<b>Frame A – B</b>	
110V 50 Hz, 120V 60 Hz	<b>A</b>
220V 50 Hz, 240V 60 Hz	<b>B</b>
230V 50 Hz	<b>F</b>
24V 50/60 Hz	<b>T</b>
24V DC	<b>TD</b>
415V 50 Hz, 480V 60 Hz	<b>C</b>
550V 50 Hz, 600V 60 Hz	<b>D</b>
208V 60 Hz	<b>E</b>
190V 50 Hz, 220V 60 Hz	<b>G</b>
240V 50 Hz, 277V 60 Hz	<b>H</b>
380V 50 Hz, 440V 60 Hz	<b>L</b>
400V 50 Hz	<b>N</b>
380V 60 Hz	<b>P</b>
12V 50/60 Hz	<b>R</b>
24V 50 Hz	<b>U</b>
42V 50 Hz, 48V 60 Hz	<b>W</b>
48V 50 Hz	<b>Y</b>
120V DC	<b>AD</b>
220V DC	<b>BD</b>
12V DC	<b>RD</b>
48V DC	<b>WD</b>

Coil Voltage	Suffix Code
<b>Frame C – F</b>	
110V 50 Hz, 120V 60 Hz	<b>A</b>
220V 50 Hz, 240V 60 Hz	<b>B</b>
230V 50 Hz	<b>F</b>
24V 50/60 Hz	<b>T</b>
24 – 27V DC	<b>TD</b>
415V 50 Hz, 480V 60 Hz	<b>C</b>
550V 50 Hz, 600V 60 Hz	<b>D</b>
208V 60 Hz	<b>E</b>
190V 50 Hz, 220V 60 Hz	<b>G</b>
240V 50 Hz, 277V 60 Hz	<b>H</b>
380V 50 Hz, 440V 60 Hz	<b>L</b>
400V 50 Hz	<b>N</b>
380V 60 Hz	<b>P</b>
12V 50/60 Hz	<b>R</b>
24V 50 Hz	<b>U</b>
42V 50 Hz, 48V 60 Hz	<b>W</b>
48V 50 Hz	<b>Y</b>
110 – 130V DC	<b>AD</b>
200 – 240V DC	<b>BD</b>
12 – 14V DC	<b>RD</b> <sup>①</sup>
48 – 60V DC	<b>WD</b>

Coil Voltage	Suffix Code
<b>Frame G</b>	
100 – 120V 50/60 Hz	<b>A</b>
190 – 240V 50/60 Hz	<b>B</b>
24V 50/60 Hz	<b>T</b>
24 – 27V DC	<b>TD</b>
480 – 500V 50/60 Hz	<b>C</b>
380 – 440V 50/60 Hz	<b>L</b>
42 – 48V 50/60 Hz	<b>W</b>
110 – 130V DC	<b>AD</b>
200 – 240V DC	<b>BD</b>
48 – 60V DC	<b>WD</b>
<b>Frame L – N</b>	
110 – 250V 40 – 60 Hz/DC	<b>A</b>
250 – 500V 40 – 60 Hz	<b>C</b>
48 – 110V 40 – 60 Hz/DC	<b>Y</b>
24 – 48V DC	<b>TD</b> <sup>②</sup>
<b>Frame L – M, S-Series</b>	
110 – 120V 50/60 Hz	<b>A</b>
220 – 240V 50/60 Hz	<b>B</b>
<b>Frame P – R</b>	
220 – 250V 50 – 60 Hz/DC	<b>B</b>

① Frame C – D only.  
② Frame L – M only.



**Figure 34-34. 7 – 150A XTGR Reversing Contactor Wiring Diagram**



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**Catalog Number Selection**

Table 34-48. XTIEC Contactors & Starters — Catalog Numbering System

<b>XT CE C 007 B 01 AD P16</b>																																																
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<b>C396 Maximum Overload Rating</b>																																																
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<b>Std. Class 5/10/20/30</b>																																																
<i>Frame B</i>																																																
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0.4 – 2.0A =	3E002																																															
1 – 5A =	3E005																																															
1.6 – 8A =	3E008																																															
6.4 – 32 =	3E032																																															
<i>Frame C</i>																																																
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0.4 – 2.0A =	3E002																																															
1 – 5A =	3E005																																															
1.6 – 8A =	3E008																																															
6.4 – 32A =	3E032																																															
<i>Frame D</i>																																																
6.4 – 32A =	3E032																																															
9 – 45A =	3E045																																															
15 – 75A =	3E075																																															
<i>Frame F</i>																																																
22 – 110A =	3E110																																															
<i>Frame G</i>																																																
30 – 150A =	3E150																																															
<table border="1"> <tr><td><b>Coil Codes</b></td></tr> <tr><td>See Table 34-58.</td></tr> </table>			<b>Coil Codes</b>	See Table 34-58.																																												
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See Table 34-58.																																																

**Dimensions**

**XTCE Contactors (3-Pole)**

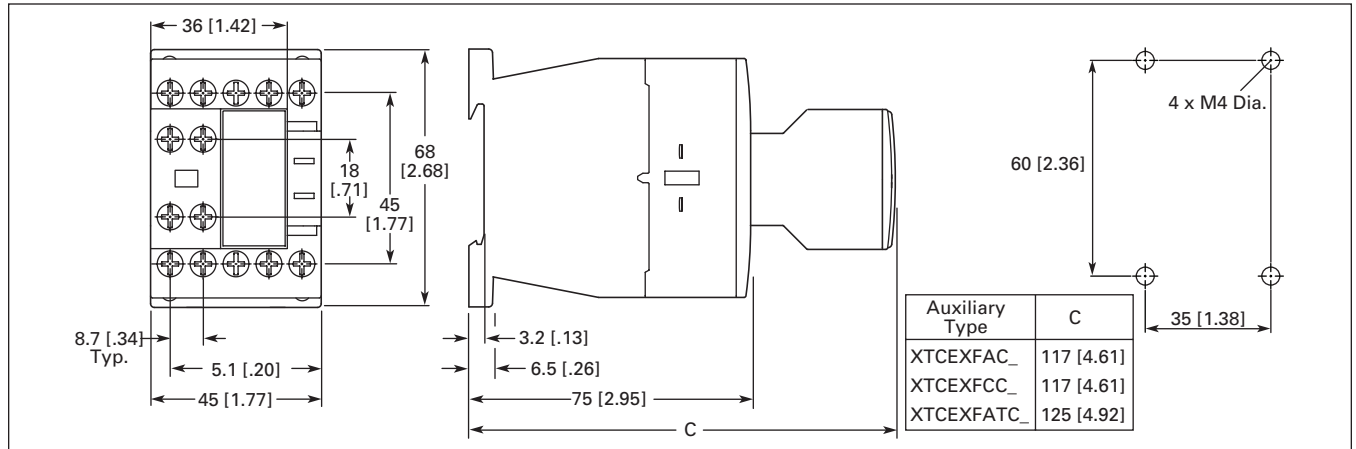


Figure 34-46. Frame B, XTCE007B and XTCE015B Contactors with Screw Terminals (7 – 15A) XTCE020B — Approximate Dimensions in mm [in]

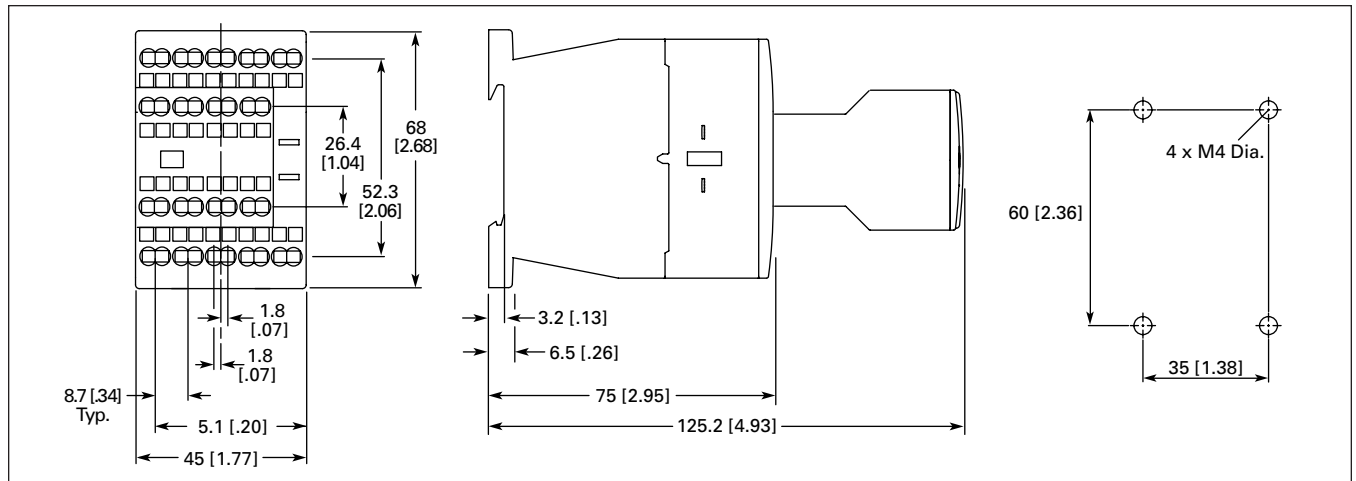


Figure 34-47. Frame B, XTCEC007B – XTCEC012B Contactors with Spring Cage Terminals (7 – 12A) — Approximate Dimensions in mm [in]

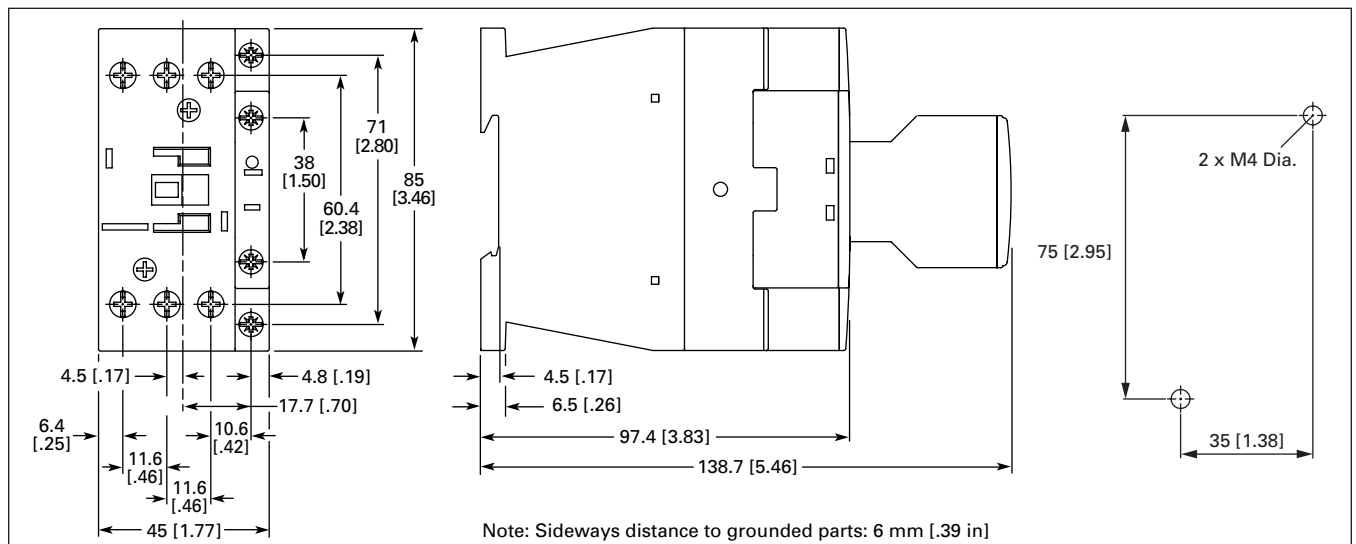


Figure 34-48. Frame C, XTCE018C – XTCE032C Contactors (18 – 32A) — Approximate Dimensions in mm [in]