

Product Selection
Non-reversing Contactors

34

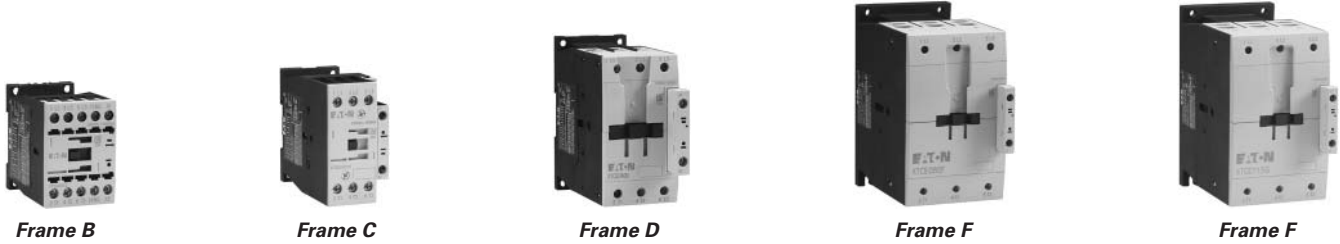


Table 34-49. Full Voltage Non-reversing 3-Pole Contactors, Frame B – Frame G

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 _e (A)	AC-1 (40°C) I _e = I _{th} (A)	Maximum kW Ratings AC-3 3-Phase Motors 50 – 60 Hz				AC Coil	DC Coil		
	115V	200V	230V	200V	230V	460V	575V			220/230V	380/400V					415V	660/690V
Frame 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 ^③	10	12	22	3.5	5.5	7	6.5	1NO	XTCE012B10_		
20	1	2	2	3	3	10 ^③	10	12	22	3.5	5.5	7	6.5	1NC	XTCE012B01_		
20	1	2	3	5	5	10 ^③	10	15.5	22	4	7.5	8	7	1NO	XTCE015B10_		
20	1	2	3	5	5	10 ^③	10	15.5	22	4	7.5	8	7	1NC	XTCE015B01_		
Frame C																	
40	2	2	3	5	5	10 ^③	15	18	40	5	7.5	10	11	1NO	XTCE018C10_		
40	2	2	3	5	5	10 ^③	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_		
Frame D																	
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_		
Frame F																	
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_		
Frame G																	
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 ^④	10	25	30	40	60	125	125	170	275 ^⑤	52	90	100	96	—	XTCE170G00_		
225 ^④	10	25	30	40	60	125	125	170	275 ^⑤	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 mm² 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_).

Contact Sequence (Circuit Symbols) Page 34-35
 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

Table 34-58. Magnet Coil Suffix

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

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

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

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

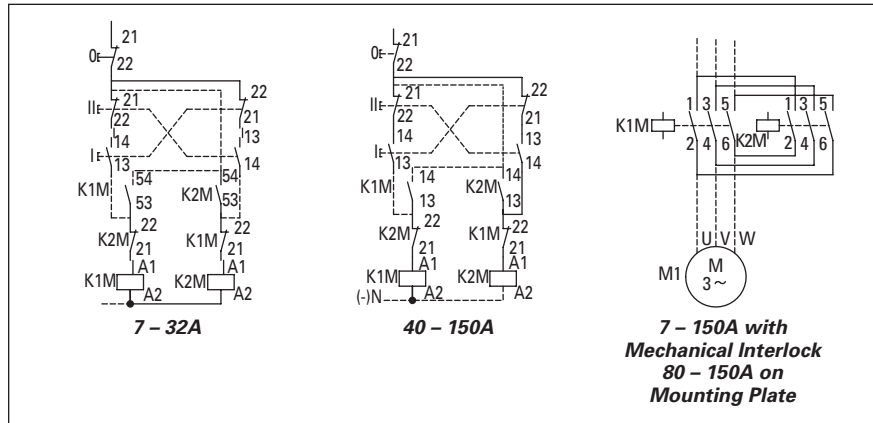


Figure 34-34. 7 – 150A XTCR Reversing Contactor Wiring Diagram

Accessories **Page 34-49**
 Dimensions **Page 34-91**
 Overload Relays **Page 34-104**

Catalog Number Selection

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

XT CE C 007 B 01 AD P16																																																
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XTCE Contactors (3-Pole)

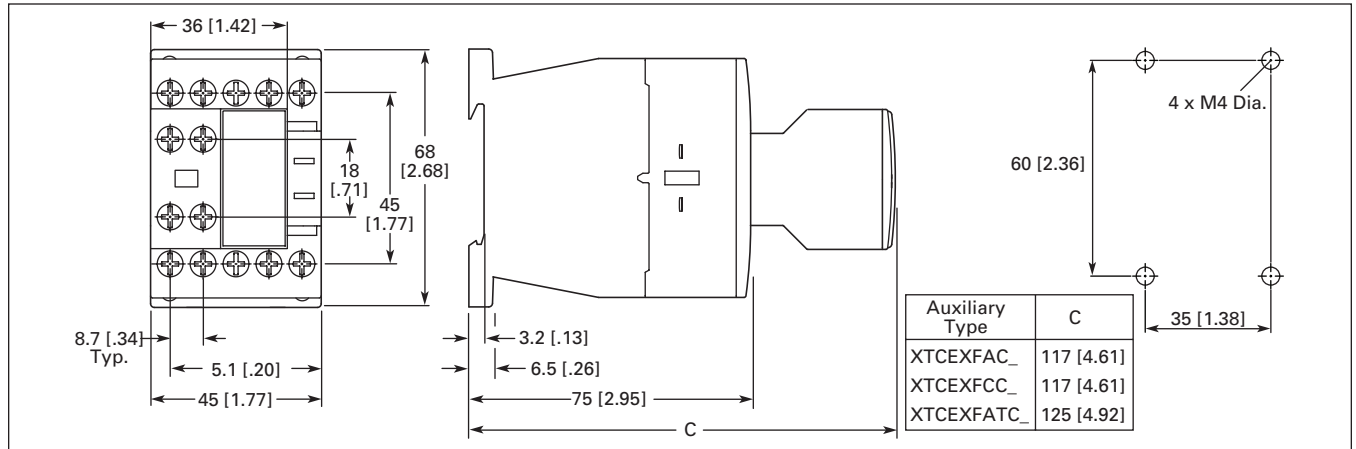


Figure 34-46. Frame B, XTCE007B and XTCE015B Contactors with Screw Terminals (7 – 15A) XTCE020B — Approximate Dimensions in mm [in]

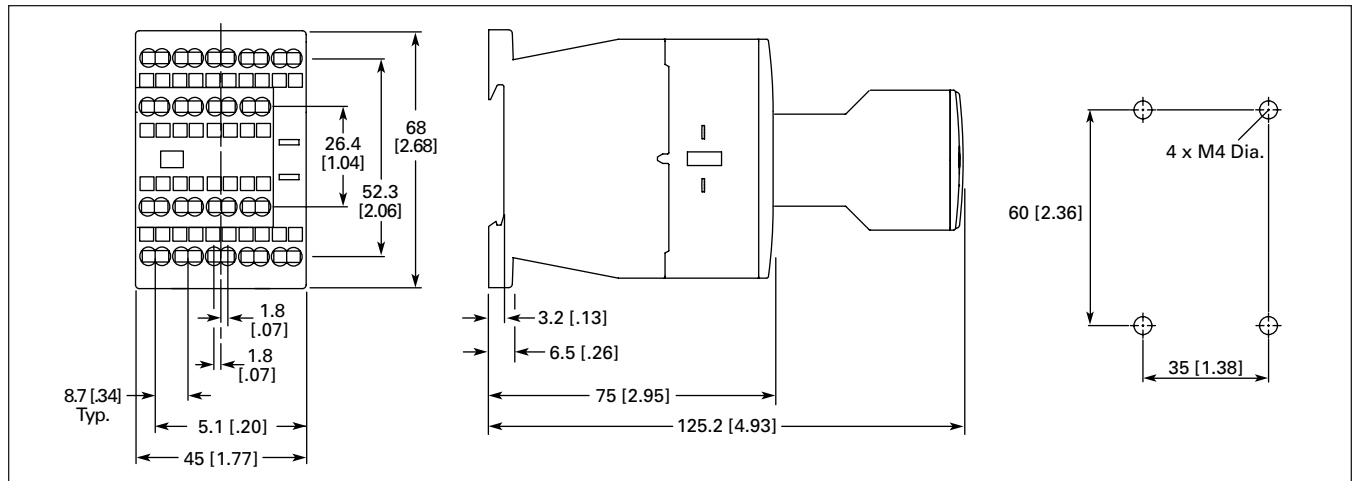


Figure 34-47. Frame B, XTCEC007B – XTCEC012B Contactors with Spring Cage Terminals (7 – 12A) — Approximate Dimensions in mm [in]

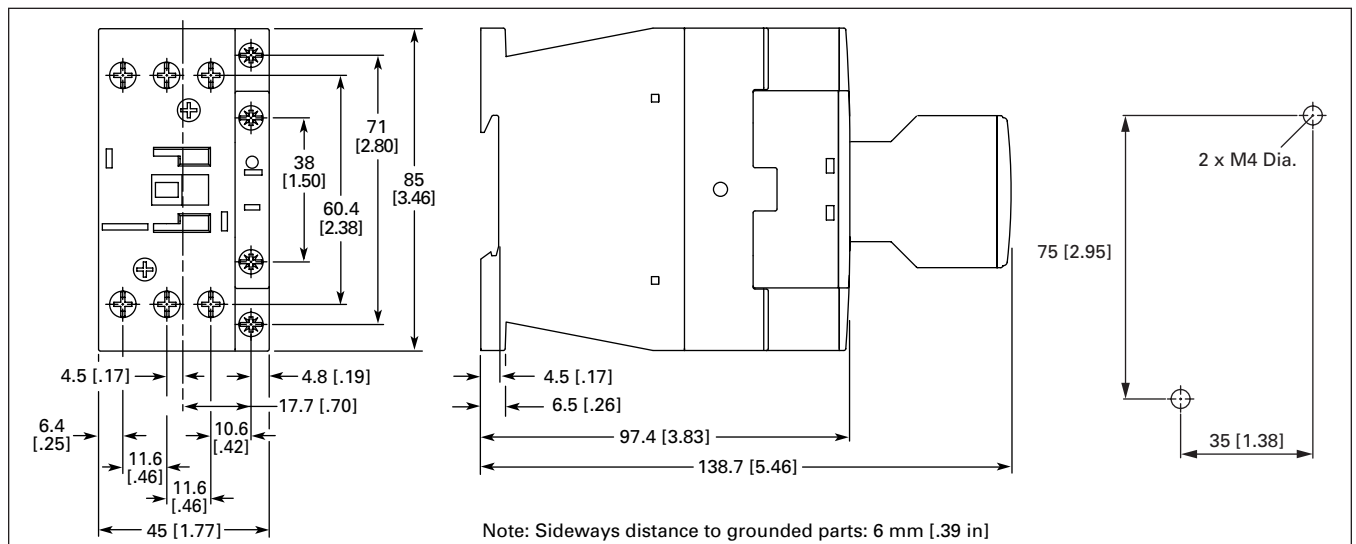


Figure 34-48. Frame C, XTCE018C – XTCE032C Contactors (18 – 32A) — Approximate Dimensions in mm [in]