

Catalog Number Selection

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

XT CE C 007 B 01 AD P16																																			
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Non-reversing Starters, Bimetallic Overload



Frame B



Frame C



Frame D



Frame F/G



Frame L

Table 34-58. Full Voltage Non-reversing 3-Pole Starters with Bimetallic Overload

I _e (A)		Maximum kW Ratings AC-3					Maximum 3-Phase Motor Rating						Auxiliary Contacts	Catalog Number ①②	Price U.S. \$	
AC-3	AC-1	3-Phase Motors 50 – 60 Hz					1-Phase hp Ratings		3-Phase hp Ratings						AC Coil	DC Coil
		220/230V	380/400V	415V	660/690V	1000V	115V	230V	200V	230V	460V	575V				
Frame B																
7	20	2.2	3	4	3.5	—	1/4	1	1-1/2	2	3	5	1NO	XTAE007B10_		
7	20	2.2	3	4	3.5	—	1/4	1	1-1/2	2	3	5	1NC	XTAE007B01_		
9	20	2.5	4	5.5	4.5	—	1/2	1-1/2	3	3	5	7-1/2	1NO	XTAE009B10_		
9	20	2.5	4	5.5	4.5	—	1/2	1-1/2	3	3	5	7-1/2	1NC	XTAE009B01_		
12	20	3.5	5.5	7	6.5	—	1	2	3	3	10 ^③	10	1NO	XTAE012B10_		
12	20	3.5	5.5	7	6.5	—	1	2	3	3	10 ^③	10	1NC	XTAE012B01_		
15.5	20	4	7.5	8	7	—	1	3	5	5	10 ^③	10	1NO	XTAE015B10_		
15.5	20	4	7.5	8	7	—	1	3	5	5	10 ^③	10	1NC	XTAE015B01_		
Frame C																
18	35	5	7.5	10	11	—	2	3	5	5	10 ^③	15	1NO	XTAE018C10_		
18	35	5	7.5	10	11	—	2	3	5	5	10 ^③	15	1NC	XTAE018C01_		
25	40	7.5	11	14.5	14	—	2	5	7-1/2	7-1/2	15	20	1NO	XTAE025C10_		
25	40	7.5	11	14.5	14	—	2	5	7-1/2	7-1/2	15	20	1NC	XTAE025C01_		
32	40	10	15	18	17	—	3	5	10	10	20	25	1NO	XTAE032C10_		
32	40	10	15	18	17	—	3	5	10	10	20	25	1NC	XTAE032C01_		
Frame D																
40	50	12.5	18.5	24	23	—	3	7-1/2	10	15	30	40	—	XTAE040D00_		
50	60	15.5	22	30	30	—	3	10	15	20	40	50	—	XTAE050D00_		
65	72	20	30	39	35	—	5	15	20	25	50	60	—	XTAE065D00_		
Frame F																
80	110	25	37	48	63	—	7-1/2	15	25	30	60	75	—	XTAE080F00_		
95	110	30	45	57	75	—	7-1/2	15	25	40	75	100	—	XTAE095F00_		
Frame G																
115	160	37	55	70	105	—	10	25	40	50	100	125	—	XTAE115G00_		
150	160	48	75	91	125	—	15	30	40	60	125	125	—	XTAE150G00_		
Frame L																
185	275	55	90	110	175	108	—	—	50	60	125	150	2NO-2NC	XTAE185L22_		
225	315	70	110	132	215	108	—	—	60	75	150	200	2NO-2NC	XTAE225L22_		
250	350	75	132	148	240	108	—	—	75	100	200	250	2NO-2NC	XTAE250L22_		

① Underscore () indicates magnet coil suffix required. See Table 34-61.
 ② Underscore () indicates overload relay suffix required. See Table 34-63.
 ③ For electrical life contactor application data see Table 34-62.

Contactors and Starters

Table 34-59. Full Voltage Non-reversing S-Series 3-Pole Starters with Bimetallic Overload

I _e (A)		Maximum kW Ratings AC-3					Maximum 3-Phase Motor Rating						Catalog Number ①②	Price U.S. \$	
AC-3	AC-1	3-Phase Motors 50 – 60 Hz					1-Phase hp Ratings		3-Phase hp Ratings					AC Coil	DC Coil
		220/ 230V	380/ 400V	415V	660/ 690V	1000V	115V	230V	200V	230V	460V	575V			
Frame L															
185	337	55	90	110	175	108	—	—	50	60	125	150	XTAS185L22_ _		
225	386	70	110	132	215	108	—	—	60	75	150	200	XTAS225L22_ _		
250	429	75	132	148	240	108	—	—	75	100	200	250	XTAS250L22_ _		

① Underscore (_) indicates magnet coil suffix required. See **Table 34-61**.
② Underscore (_) indicates overload relay suffix required. See **Table 34-63**.

Reversing Starters, Bimetallic Overload

Table 34-60. Full Voltage Reversing Starters with Screw Terminals and Bimetallic Overload

I _e (A)		Maximum kW Ratings AC-3					Maximum 3-Phase Motor Rating						Catalog Number ③④	Price U.S. \$	
AC-3		3-Phase Motors 50 – 60 Hz					1-Phase hp Ratings		3-Phase hp Ratings					AC Coil	DC Coil
		220/ 230V	380/ 400V	415V	660/ 690V		115V	230V	200V	230V	460V	575V			
Frame B															
7	2.2	3	4	3.5	1/4	1	1-1/2	2	3	5	10	15	XTAR007B21_ _		
9	2.5	4	5.5	4.5	1/2	1-1/2	3	3	5	7-1/2	10	20	XTAR009B21_ _		
12	3.5	5.5	7	6.5	1	2	3	3	10	10	20	25	XTAR012B21_ _		
Frame C															
18	5	7.5	8	11	2	3	5	5	10	15	20	25	XTAR018C21_ _		
25	7.5	11	14.5	14	2	5	7-1/2	7-1/2	15	20	25	30	XTAR025C21_ _		
32	10	15	18	17	3	5	10	10	20	25	30	40	XTAR032C21_ _		
Frame D															
40	12.5	18.5	24	23	3	7-1/2	10	15	30	40	50	60	XTAR040D11_ _		
50	15.5	22	30	30	3	10	15	20	40	50	60	75	XTAR050D11_ _		
65	20	30	39	35	5	15	20	25	50	60	75	100	XTAR065D11_ _		

③ Underscore (_) indicates magnet coil suffix required. See **Table 34-61**.
④ Underscore (_) indicates overload relay suffix required. See **Table 34-63**.

Table 34-61. 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
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 ⑤
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 ⑦

Frame L – N, S-Series	
110 – 120V 50/60 Hz	A
220 – 240V 50/60 Hz	B

⑤ Frame C – D only.
⑦ Frame L – M only.

Table 34-62. Starter Application Data ⑤

Catalog Prefix	AC-3	Electrical Life (Operations)
XTAE012B	12A	1 million
XTAE015B	15A	1.2 million
XTAE018C	18A	2 million

⑤ See **Page 34-82** for Electrical Life Curves.

Accessories **Page 34-49**
Dimensions **Page 34-84**
Overload Relays **Page 34-95**
Discount Symbol **1CD7**

Contactors and Starters

Table 34-63. XTOB and XTOT Overload Relay Suffix

Motor Full Load Amperes	Suffix Code	For Use with Contactor Amp Range	Overload Relay Catalog Number
Frame B			
0.1 – 0.16	P16	7 – 15A	XTOBP16BC1
0.16 – 0.24	P24	7 – 15A	XTOBP24BC1
0.24 – 0.4	P40	7 – 15A	XTOBP40BC1
0.4 – 0.6	P60	7 – 15A	XTOBP60BC1
0.6 – 1	001	7 – 15A	XTOB001BC1
1 – 1.6	1P6	7 – 15A	XTOB1P6BC1
1.6 – 2.4	2P4	7 – 15A	XTOB2P4BC1
2.4 – 4	004	7 – 15A	XTOB004BC1
4 – 6	006	7 – 15A	XTOB006BC1
6 – 10	010	7 – 15A	XTOB010BC1
9 – 12	012	9 – 15A	XTOB012BC1
12 – 16	016	12 – 15A	XTOB016BC1
Frame C			
0.1 – 0.16	P16	18 – 32A	XTOBP16CC1
0.16 – 0.24	P24	18 – 32A	XTOBP24CC1
0.24 – 0.4	P40	18 – 32A	XTOBP40CC1
0.4 – 0.6	P60	18 – 32A	XTOBP60CC1
0.6 – 1	001	18 – 32A	XTOB001CC1
1 – 1.6	1P6	18 – 32A	XTOB1P6CC1
1.6 – 2.4	2P4	18 – 32A	XTOB2P4CC1
2.4 – 4	004	18 – 32A	XTOB004CC1
4 – 6	006	18 – 32A	XTOB006CC1
6 – 10	010	18 – 32A	XTOB010CC1
10 – 16	016	18 – 32A	XTOB016CC1
16 – 24	024	18 – 32A	XTOB024CC1
24 – 32	032	25 – 32A	XTOB032CC1

Motor Full Load Amperes	Suffix Code	For Use with Contactor Amp Range	Overload Relay Catalog Number
Frame D			
6 – 10	010	40 – 65A	XTOB010DC1
10 – 16	016	40 – 65A	XTOB016DC1
16 – 24	024	40 – 65A	XTOB024DC1
24 – 40	040	40 – 65A	XTOB040DC1
40 – 57	057	50 – 65A	XTOB057DC1
50 – 65	065	65A	XTOB065DC1
Frame F			
25 – 35	035	80 – 95A	XTOB055GC1 ①
35 – 50	050	80 – 95A	XTOB050GC1 ①
50 – 70	070	80 – 95A	XTOB070GC1 ①
70 – 100	100	80 – 95A	XTOB100GC1 ①
Frame G			
25 – 35	035	115 – 150A	XTOB055GC1 ①
35 – 50	050	115 – 150A	XTOB050GC1 ①
50 – 70	070	115 – 150A	XTOB070GC1 ①
70 – 100	100	115 – 150A	XTOB100GC1 ①
95 – 125	125	115 – 150A	XTOB125GC1 ①
120 – 150	150	150A	XTOB150GC1 ①
Frame L			
50 – 70	070	185 – 250A	XTOB070LC1
70 – 100	100	185 – 250A	XTOB100LC1
95 – 125	125	185 – 250A	XTOB125LC1
120 – 160	160	185 – 250A	XTOB160LC1
160 – 220	220	185 – 250A	XTOB220LC1
200 – 250	250	225 – 250A	XTOB250LC1

① Catalog Number refers to direct mount overload relay. Add an **S** to the end of the Catalog Number for separate mount.