

## Contents

Description	Page
Catalog Number Selection .....	34-3
Product Selection .....	34-4
Accessories .....	34-5
Technical Data and Specifications .....	34-10
Dimensions .....	34-13
Reference Data .....	34-210



## Product Description

Eaton's new line of **XT** Relays and Timers includes mini and standard frame control relays and auxiliary contacts, mini electronic on-delay and multi-function timers and an electronic star-delta (wye-delta) timer for use in star-delta (wye-delta) combinations. Because **XT** meets UL, CSA, CCC and CE standards, it is the perfect product solution for IEC applications all over the world. The compact, space saving, and easy to install **XT** line of IEC contactors and starters is the efficient and effective solution for customer applications.

## Features

- For use with Mini and Standard frame size contactors and starters
- Control Relays
  - AC Control from 12V to 550V 50 Hz, 600V 60 Hz
  - DC Control from 12V to 220V
- On-Delay and Multi-Function Timers
  - 24 – 240V AC/DC Control
- Available with screw or spring cage terminals
- 4-Pole Configurations
- IP20 finger and back-of-hand proof
- Large ambient temperature range: -25° to 50°C [-13° to 122°F]
- The XTRE Control Relays have positively driven contacts between the relay and the auxiliary contact modules as well as within the auxiliary contact modules

## Standards and Certifications

- IEC EN 60947
- CE Approved
- UL
- CSA
- CCC
- ATEX

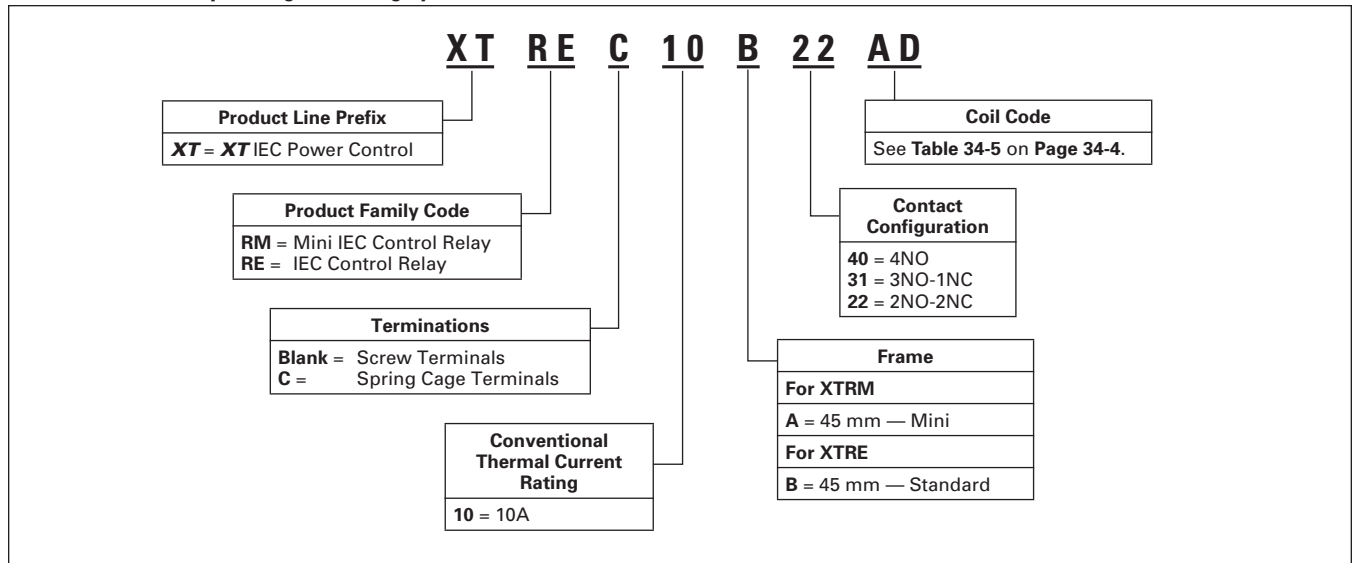


## Instructional Leaflets

Pub51219	Inside of Packaging XTRM Mini Control Relays
Pub51210	Inside of Packaging 7-15A XTCE Contactors and XTRE Control Relays
Pub51244	XTTR Electronic Star-Delta (Wye-Delta) Timer
Pub51245	XTMT Mini Electronic On-Delay and Multi-Function Timers

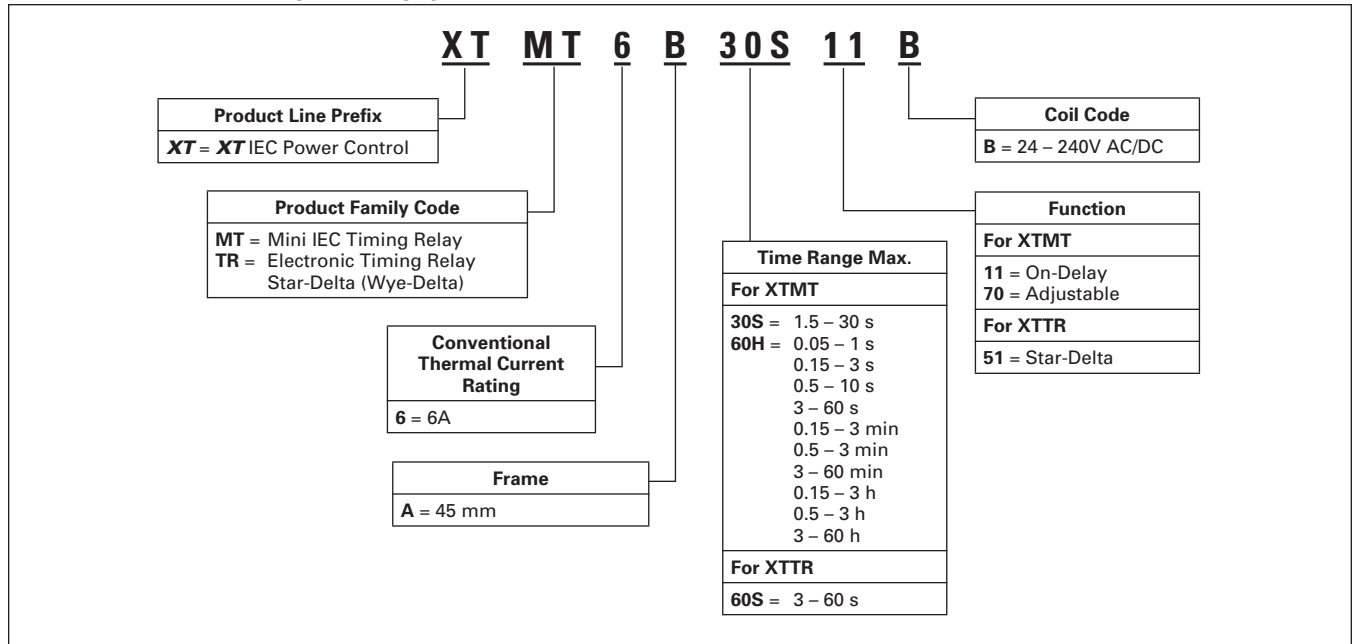
**Catalog Number Selection**

**Table 34-1. XT — Relay Catalog Numbering System**



**34**

**Table 34-2. XT — Timers Catalog Numbering System**



## Product Selection



### Mini Control Relays

Table 34-3. Mini Control Relays

Conventional Thermal Current $I_{th}$ (A)	Contact Configuration	Rated Operational Current AC-15 $I_g$ (A)			Circuit Symbol	Screw Terminals	Spring Cage Terminals	Price U.S. \$	
		220 – 240V	380 – 415V	500V		Catalog Number ①	Catalog Number ①	AC Coil	DC Coil
10	4NO	6	3	1.5		XTRM10A40_	XTRMC10A40_		
10	3NO-1NC	6	3	1.5		XTRM10A31_	XTRMC10A31_		
10	2NO-2NC	6	3	1.5		XTRM10A22_	XTRMC10A22_		

① Underscore ( \_ ) indicates magnet coil suffix required. See Table 34-5.

### Control Relays



Table 34-4. Control Relays

Conventional Thermal Current Open at 60°C $I_{th}$ (A)	Contact Configuration	Rated Operational Current AC-15 $I_g$ (A)			Circuit Symbol	Screw Terminals	Spring Cage Terminals	Price U.S. \$	
		220 – 240V	380 – 415V	500V		Catalog Number ②	Catalog Number ②	AC Coil	DC Coil
16	4NO	6	4	1.5		XTRE10B40_	XTREC10B40_		
16	3NO-1NC	6	4	1.5		XTRE10B31_	XTREC10B31_		
16	2NO-2NC	6	4	1.5		XTRE10B22_ ③	XTREC10B22_ ③		

② Underscore ( \_ ) indicates magnet coil suffix required. See Table 34-5.

③ DC operated control relays XTRE(C)10B22\_ can only be combined with 2-pole auxiliary contacts.

Table 34-5. Coil Voltage Suffix

Coil Voltage	Suffix Code
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

Coil Voltage	Suffix Code
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

Coil Voltage	Suffix Code
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

**Notes:**

- Orders must be placed in multiples of the package quantity listed.
- DC operated control relays have a built-in suppressor circuit.
- Contact terminal numbers to EN50011.
- Coil terminal numbers to EN50005.

Accessories ..... Page 34-5  
 Dimensions ..... Page 34-13  
 Discount Symbol ..... 1CD7

**Accessories**



**Auxiliary Contacts**

**Table 34-6. Front Mount Auxiliary Contacts for Use with XTRM Mini Control Relays**

Conventional thermal current, I <sub>th</sub> Open (A)	Rated Operational Current AC-15 I <sub>e</sub> (A)			Contact Configuration	Contact Sequence	Package Qty.	Screw Terminals	Spring Cage Terminals	Price U.S. \$ <sup>①</sup>
	220V 230V 240V	380V 400V 415V	500V				Catalog Number	Catalog Number	
10	4	2	1.5	2NC		5	XTMCXFA02	—	
10	4	2	1.5	1NO-1NC		5	XTMCXFA11	XTMCXFAC11	
10	4	2	1.5	2NO		5	XTMCXFA20	—	
10	4	2	1.5	1NO <sub>E</sub> -1NC <sub>L</sub>		5	XTMCXFAL11 <sup>②</sup>	—	
10	4	2	1.5	4NC		5	XTMCXFA04	XTMCXFAC04	
10	4	2	1.5	1NO-3NC		5	XTMCXFA13	XTMCXFAC13	
10	4	2	1.5	2NO-2NC		5	XTMCXFA22	XTMCXFAC22	
10	4	2	1.5	3NO-1NC		5	XTMCXFA31	XTMCXFAC31	
10	4	2	1.5	4NO		5	XTMCXFA40	XTMCXFAC40	
10	4	2	1.5	1NO-1NC 1NO <sub>E</sub> -1NC <sub>L</sub>		5	XTMCXFAL22 <sup>②</sup>	XTMCXFCLC22 <sup>②</sup>	

① Orders must be placed in multiples of package quantity listed.

② 1 early-make contact (NO<sub>E</sub>), 1 late-break contact (NC<sub>L</sub>).

Relays and Timers

Table 34-7. Front Mount Auxiliary Contacts for Use with XTRE Control Relays ③

	Conventional Thermal Current, I <sub>th</sub> (A), Open at 60°C	Poles	Rated Operational Current AC-15 I <sub>e</sub> (A)			Contact Configuration	Circuit Symbol	Pkg. Qty.	Screw Terminals	Spring Cage Terminals	Price U.S. \$ ①
			220V 230V 240V	380V 400V 415V	500V				Catalog Number	Catalog Number	
	16	2	6	3	1.5	2NO		5	XTCEXFAC20	XTCEXFACC20	
	16	2	6	3	1.5	1NO-1NC		5	XTCEXFAC11	XTCEXFACC11	
	16	2	6	3	1.5	2NC		5	XTCEXFAC02	XTCEXFACC02	
	16	2	6	3	1.5	1NO <sub>E</sub> -1NC <sub>L</sub>		5	XTCEXFALC11 ②	XTCEXFALCC11 ②	
	16	4	6	3	1.5	4NO		5	XTCEXFAC40	XTCEXFACC40	
	16	4	6	3	1.5	3NO-1NC		5	XTCEXFAC31	XTCEXFACC31	
	16	4	6	3	1.5	2NO-2NC		5	XTCEXFAC22	XTCEXFACC22	
	16	4	6	3	1.5	1NO-3NC		5	XTCEXFAC13	XTCEXFACC13	
	16	4	6	3	1.5	4NC		5	XTCEXFAC04	XTCEXFACC04	
	16	4	6	3	1.5	1NO-1NC 1NO <sub>E</sub> -1NC <sub>L</sub>		5	XTCEXFCLC22 ②	XTCEXFCLCC22 ②	

① Orders must be placed in multiples of package quantity listed.  
 ② 1 early-make contact (NO<sub>E</sub>), 1 late-break contact (NC<sub>L</sub>).  
 ③ Interlocked opposing contacts, to IEC/EN 60947-5-1 Annex L (positively driven), within the auxiliary contact modules (not NO<sub>E</sub> and NC<sub>L</sub> contacts) and between the auxiliary contacts and built-in contacts of the XTRE control relays.

Suppressors

For AC operated contactors 50 – 60 Hz. On DC operated contactor relays and on XTRE10B the suppressor circuit is built-in. Note drop-out relay.



Varistor Suppressor ④⑤



Table 34-8. Varistor Suppressor for XTRE

Voltage	For Use with...	Pkg. Qty.	Catalog Number	Price U.S. \$ ⑥
24 – 48	XTCE007B – XTCE015B,	10	XTCEXVSBW	
48 – 130	XTCF020B, XTRE(C)10B	10	XTCEXVSB	
130 – 240		10	XTCEXVSB	
240 – 500		10	XTCEXVSB	

④ Note drop-out delay.  
 ⑤ For AC operated contactors, 50/60 Hz. DC operated contactors have an integrated suppressor.  
 ⑥ Orders must be placed in multiples of package quantity listed.

Table 34-9. Varistor Suppressor for XTRM ⑦

Voltage	For Use with...	Circuit Symbol	Package Qty.	Catalog Number	Price U.S. \$ ⑧
24 – 48	XTRM6A..., XTRM9A...		10	XTMCXVSW	
48 – 130	XTRM6A..., XTRM9A...		10	XTMCXVSA	
110 – 250	XTRM6A..., XTRM9A...		10	XTMCXVSB	
380 – 415	XTRM6A..., XTRM9A...		10	XTMCXVSN	
24 – 48	XTRM6A..., XTRM9A...		10	XTMCXVSCW	
48 – 130	XTRM6A..., XTRM9A...		10	XTMCXVSCA	
110 – 250	XTRM6A..., XTRM9A...		10	XTMCXVSCB	

⑦ For AC operated contactors, 50/60 Hz. DC operated contactors have integrated varistor suppressors.  
 ⑧ Orders must be placed in multiples of package quantity listed.

Discount Symbol ..... 1CD7

## Contactors and Starters

## Star-Delta (Wye-Delta) Starters

Table 34-70. Star-Delta (Wye-Delta) Starters

Maximum 3-Phase Current Motor Rating				I <sub>e</sub> (A)	Maximum kW Ratings AC-3						Maximum Changeover Time (sec)	Components	
3-Phase hp Ratings					AC-3	3-Phase Motors 50 – 60 Hz						Description	Catalog Number ①
200V	230V	460V	575V	220/ 230V		380/ 400V	415V	500V	660/ 690V	1000V			
<b>Frame B</b>													
3	3	2-1/2	10	12	3	5.5	7	5.5	5.5	—	<20	K1M Main Contactor K5M Delta Contactor K3M Star Contactor Mechanical Interlock K1T Timing Relay Overload Relay (3) Auxiliary Contacts Star-Delta Link Kit	XTCE007B10_ XTCE007B01_ XTCE007B01_ XTCEXMLB XTTR6A60S51B XTOB...BC1 XTCEXFAC20 XTCEXSDLB
3	5	7-1/2	10	16	4	7.5	8	7.5	7.5	—	<20	K1M Main Contactor K5M Delta Contactor K3M Star Contactor Mechanical Interlock K1T Timing Relay Overload Relay (3) Auxiliary Contacts Star-Delta Link Kit	XTCE009B10_ XTCE009B01_ XTCE009B01_ XTCEXMLB XTTR6A60S51B XTOB...BC1 XTCEXFAC20 XTCEXSDLB
5	5	10	15	22	5.5	11	14.5	11	11	—	<20	K1M Main Contactor K5M Delta Contactor K3M Star Contactor Mechanical Interlock K1T Timing Relay Overload Relay (3) Auxiliary Contacts Star-Delta Link Kit	XTCE012B10_ XTCE012B01_ XTCE012B01_ XTCEXMLB XTTR6A60S51B XTOB...BC1 XTCEXFAC20 XTCEXSDLB
<b>Frame C</b>													
7-1/2	7-1/2	15	20	30	7.5	15	19	18.5	18.5	—	<20	K1M Main Contactor K5M Delta Contactor K3M Star Contactor Mechanical Interlock K1T Timing Relay Overload Relay (3) Auxiliary Contacts Star-Delta Link Kit	XTCE018C10_ XTCE018C01_ XTCE018C01_ XTCEXMLC XTTR6A60S51B XTOB...CC1 XTCEXFAC20 XTCEXSDLC
10	15	30	40	45	11	22	30	30	22	—	<20	K1M Main Contactor K5M Delta Contactor K3M Star Contactor Mechanical Interlock K1T Timing Relay Overload Relay (3) Auxiliary Contacts Star-Delta Link Kit	XTCE025C10_ XTCE025C01_ XTCE025C01_ XTCEXMLC XTTR6A60S51B XTOB...CC1 XTCEXFAC20 XTCEXSDLC
15	20	40	50	55	15	30	39	37	30	—	<20	K1M Main Contactor K5M Delta Contactor K3M Star Contactor Mechanical Interlock K1T Timing Relay Overload Relay (3) Auxiliary Contacts Star-Delta Link Kit	XTCE032C10_ XTCE032C01_ XTCE032C01_ XTCEXMLC XTTR6A60S51B XTOB...CC1 XTCEXFAC20 XTCEXSDLC
<b>Frame D</b>													
20	25	50	60	70	18.5	37	37	45	37	—	<20	K1M Main Contactor K5M Delta Contactor K3M Star Contactor Mechanical Interlock K1T Timing Relay Overload Relay (2) Auxiliary Contacts (K1M, K3M) (1) Auxiliary Contact (K5M) Star-Delta Link Kit	XTCE040D00_ XTCE040D00_ XTCE040D00_ XTCEXMLD XTTR6A60S51B XTOB...DC1 XTCEXFBG11 XTCEXFBG31 XTCEXSDL
25	30	60	75	90	22	45	45	55	45	—	<20	K1M Main Contactor K5M Delta Contactor K3M Star Contactor Mechanical Interlock K1T Timing Relay Overload Relay (2) Auxiliary Contacts (K1M, K3M) (1) Auxiliary Contact (K5M) Star-Delta Link Kit	XTCE050D00_ XTCE050D00_ XTCE040D00_ XTCEXMLD XTTR6A60S51B XTOB...DC1 XTCEXFBG11 XTCEXFBG31 XTCEXSDL

① Underscore ( ) indicates magnet coil suffix required. See Table 34-72.

**Table 34-70. Star-Delta (Wye-Delta) Starters (Continued)**

Maximum 3-Phase Current Motor Rating				I <sub>e</sub> (A)	Maximum kW Ratings AC-3						Maximum Changeover Time (sec)	Components	
3-Phase hp Ratings					AC-3	3-Phase Motors 50 – 60 Hz						Description	Catalog Number <sup>①</sup>
200V	230V	460V	575V	220/230V		380/400V	415V	500V	660/690V	1000V			
<b>Frame D (Continued)</b>													
40	50	100	125	115	30	55	55	75	55	—	<20	K1M Main Contactor K5M Delta Contactor K3M Star Contactor Mechanical Interlock K1T Timing Relay Overload Relay (2) Auxiliary Contacts (K1M, K3M) (1) Auxiliary Contact (K5M) Star-Delta Link Kit	XTCE065D00_ XTCE065D00_ XTCE040D00_ XTCEXMLD XTTR6A60S51B XTOB...DC1 XTCEXFBG11 XTCEXFBG31 XTCEXSDL
<b>Frame F</b>													
40	60	125	150	140	37	75	75	90	90	—	<20	K1M Main Contactor K5M Delta Contactor K3M Star Contactor <sup>②</sup> Mechanical Interlock <sup>②</sup> K1T Timing Relay Overload Relay (2) Auxiliary Contacts (K1M, K3M) (1) Auxiliary Contact (K5M) Star-Delta Link Kit	XTCE080F00_ XTCE080F00_ XTCE050D00_ XTCEXMLG XTTR6A60S51B XTOB...FC1 XTCEXFBG11 XTCEXFBG31 XTCEXSDLF
40	60	125	150	165	45	90	110	110	132	—	<20	K1M Main Contactor K5M Delta Contactor K3M Star Contactor <sup>②</sup> Mechanical Interlock <sup>②</sup> K1T Timing Relay Overload Relay (2) Auxiliary Contacts (K1M, K3M) (1) Auxiliary Contact (K5M) Star-Delta Link Kit	XTCE095F00_ XTCE095F00_ XTCE065D00_ XTCEXMLG XTTR6A60S51B XTOB...FC1 XTCEXFBG11 XTCEXFBG31 XTCEXSDLF
<b>Frame G</b>													
50	60	125	150	200	55	110	132	132	160	—	<20	K1M Main Contactor K5M Delta Contactor K3M Star Contactor Mechanical Interlock K1T Timing Relay Overload Relay (2) Auxiliary Contacts (1) Auxiliary Contact (K5M) Star-Delta Link Kit	XTCE115G00_ XTCE115G00_ XTCE080F00_ XTCEXMLG XTTR6A60S51B XTOB...GC1 XTCEXFBG11 XTCEXFBG31 XTCEXSDLG
75	100	200	250	260	75	132	148	160	160	—	<20	K1M Main Contactor K5M Delta Contactor K3M Star Contactor Mechanical Interlock K1T Timing Relay Overload Relay (2) Auxiliary Contacts (1) Auxiliary Contact (K5M) Star-Delta Link Kit	XTCE150G00_ XTCE150G00_ XTCE080F00_ XTCEXMLG XTTR6A60S51B XTOB...GC1 XTCEXFBG11 XTCEXFBG31 XTCEXSDLG
<b>Frame L</b>													
100	125	250	300	315	90	160	180	200	250	132	<30	K1M Main Contactor K5M Delta Contactor K3M Star Contactor <sup>②</sup> Mechanical Interlock <sup>②</sup> K1T Timing Relay Overload Relay K3M Auxiliary Contact Star-Delta Link Kit	XTCE185L22_ XTCE185L22_ XTCE115G00_ XTCEXMLM XTTR6A60S51B XTOB...LC1 XTCEXFBG22 XTCEXSDL225
125	150	300	400	385	110	200	240	250	315	160	<20	K1M Main Contactor K5M Delta Contactor K3M Star Contactor <sup>②</sup> Mechanical Interlock <sup>②</sup> K1T Timing Relay Overload Relay K3M Auxiliary Contact Star-Delta Link Kit	XTCE225L22_ XTCE225L22_ XTCE150G00_ XTCEXMLM XTTR6A60S51B XTOB...LC1 XTCEXFBG22 XTCEXSDL225
125	150	300	400	430	132	250	300	315	400	200	<30	K1M Main Contactor K5M Delta Contactor K3M Star Contactor Mechanical Interlock K1T Timing Relay Overload Relay Star-Delta Link Kit	XTCE250L22_ XTCE250L22_ XTCE185L22_ XTCEXMLM XTTR6A60S51B XTOB...LC1 XTCEXSDL250

<sup>①</sup> Underscore ( \_ ) indicates magnet coil suffix required. See **Table 34-72**.

<sup>②</sup> If mechanical interlock of Star Contactor is required, it must be the same frame size of the Delta Contactor or use the same mechanical interlock, see **Table 34-86, Page 34-57** for mechanical interlocks. (Example: XTCE...L22\_ and XTCE...M22\_ both use Mechanical Interlock XTCEXMLM.)

**Contactors and Starters**

**Table 34-77. Auxiliary Contacts**

	Conventional Thermal Current, Open at 60°C $I_{th} = I_e$ , AC-1 in Amps	Poles	Contact Configuration	Circuit Symbol	Pkg. Qty.	Screw Terminals Catalog Number	Spring Cage Terminals Catalog Number	Price U.S. \$ ①
--	--	-------	-----------------------	----------------	-----------	-----------------------------------	---	-----------------

**Frame B – C — Front (Top) Mount**

	16	2	2NO		5	XTCEXFAC20	XTCEXFACC20	
	16	2	1NO-1NC		5	XTCEXFAC11	XTCEXFACC11	
	16	2	2NC		5	XTCEXFAC02	XTCEXFACC02	
	16	2	1NO <sub>E</sub> -1NC <sub>L</sub>		5	XTCEXFALC11 ②	XTCEXFALCC11 ②	
	16	2	1NO-1NC		5	XTCEXFDC11 ③	XTCEXFDC11 ③	
	16	2	2NC		5	XTCEXFCC02 ③	XTCEXFCC02 ③	
	16	4	4NO		5	XTCEXFAC40	XTCEXFACC40	
	16	4	3NO-1NC		5	XTCEXFAC31	XTCEXFACC31	
	16	4	2NO-2NC		5	XTCEXFAC22	XTCEXFACC22	
	16	4	1NO-3NC		5	XTCEXFAC13	XTCEXFACC13	
	16	4	4NC		5	XTCEXFAC04	XTCEXFACC04	
	16	4	1NO <sub>E</sub> -1NC <sub>L</sub>		5	XTCEXFCLC22 ②	XTCEXFCLCC22 ②	
	16	4	2NO-2NC		5	XTCEXFCC22 ③	XTCEXFCC22 ③	

**Frame B — Side Mount**







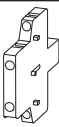






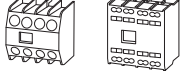







	16	1	1NO		1	XTCEXSAB10	—	
	16	1	1NC		1	XTCEXSAB01	—	

① Orders must be placed in multiples of package quantity listed.

② 1 early-make contact (1NO<sub>E</sub>), 1 late-break contact (1NC<sub>L</sub>).

③ To avoid duplicate terminal numbers in contact sequence, these auxiliary contacts should only be used with contactors having a built-in 1NO contact (XTCE...B10\_, XTCE...C10\_).

**Table 34-77. Auxiliary Contacts (Continued)**

	Conventional Thermal Current, Open at 60°C I <sub>th</sub> = I <sub>e</sub> , AC-1 in Amps	Poles	Contact Configuration	Circuit Symbol	Pkg. Qty.	Screw Terminals Catalog Number	Spring Cage Terminals Catalog Number	Price U.S. \$ ①
<b>Frame B – C — Front (Top) Mount — Tall Version ③</b>								
	16	2	2NO		5	XTCEXFATC20	—	
	16	2	1NO-1NC		5	XTCEXFATC11	—	
	16	2	2NC		5	XTCEXFATC02	—	
	16	4	2NO-2NC		5	XTCEXFATC22	—	
<b>Frame C — Side Mount</b>								
	10	2	1NO-1NC		1	XTCEXSCC11 ④	—	
<b>Frame D – G</b>								
	16	2	2NO		5	XTCEXFBG20	—	
	16	2	1NO-1NC		5	XTCEXFAG11	—	
	16	2	1NO-1NC		5	XTCEXFBG11	—	
	16	2	2NC		5	XTCEXFBG02	—	
	16	4	4NO-0NC		5	XTCEXFBG40	XTCEXFBGC40	
	16	4	3NO-1NC		5	XTCEXFBG31	XTCEXFBGC31	
	16	4	2NO-2NC		5	XTCEXFBG22	XTCEXFBGC22	
	16	4	2NO-2NC		5	XTCEXFAG22	XTCEXFAGC22	
	16	4	1NO-3NC		5	XTCEXFBG13	XTCEXFBGC13	
	16	4	0NO-4NC		5	XTCEXFBG04	XTCEXFBGC04	
	16	4	1NO <sub>E</sub> -1NC <sub>L</sub>		5	XTCEXFBG22 ②	XTCEXFBG22 ②	

① Orders must be placed in multiples of package quantity listed.  
 ② 1 early-make contact (1NO<sub>E</sub>), 1 late-break contact (1NC<sub>L</sub>).  
 ③ Front (Top) Mount Tall Version is for use with Frame B Electrical Wire Bridges and Link Kits (see Page 34-57) and Toolless Plug Combination Connection Kits: XTCEXRLB, XTCEXSDLB, XTPAXTPCB, XTPAXTPCRB, XTPAX.

④ Can be mounted to the left side of contactor only. Cannot be used in combination with front (top) mount auxiliary contacts or mechanical interlocks.  
**Notes:**  
 ■ Interlocked opposing contacts, to IEC/EN 60947-5-1 Annex L (positively driven), within the auxiliary contact modules (not NO (early make) and NC (late break) contacts) and for the built-in auxiliary contacts of the XTCE007B... – XTCE032C....

■ Auxiliary break contact can be used as mirror contact to IEC/EN 60947-4-1 Annex F (not NC (late break) contact).  
 ■ No auxiliary contacts can be fitted between two contactors.

**Contactors and Starters**

**34**

**Table 34-78. Side Mount Auxiliary Contacts for Frame D – R, 40 – 2000A**

	Conventional Free Air Thermal Current, I <sub>th</sub> = I <sub>e</sub> , AC-1 in Amps	Poles	Contact Configuration	Circuit Symbol	Pkg. Qty.	Screw Terminals	Spring Cage Terminals	Price U.S. \$
						Catalog Number	Catalog Number	
<b>Frame D – R</b>								
	10	2	1NO-1NC		1	XTCEXSBN11	XTCEXSBN11	
	10	2	1NO <sub>E</sub> -1NC <sub>L</sub>		1	XTCEXSBLN11 ①	—	
	10	2	1NO-1NC		1	XTCEXSCN11 ②	XTCEXSCNC11 ②	
<b>Frame D – R (Screw Mount)</b>								
	10	2	1NO-1NC		1	XTCEXSBR11	—	
	10	2	1NO <sub>E</sub> -1NC <sub>L</sub>		1	XTCEXSBLR11	—	
	10	2	1NO-1NC		1	XTCEXSCR11	—	

① 1 early-make contact (1NO<sub>E</sub>), 1 late-break contact (1NC<sub>L</sub>).  
 ② To maintain proper terminal marking, XTCEXSCN\_ should not be used with Frame D contactors and only used with Frame F – G contactors in combination with XTCEXSBN\_.

**Accessories**

**Auxiliary Contacts**

**Side-Mount Auxiliary Contacts**



34

Can be fitted on the right side of manual motor protectors (XTPB, XTPR, XTPM) and manual transformer protectors (XTPT) and can be combined with XTPAXSATR... and XTPAXFA... trip indicating auxiliary contact.

**Table 34-150. Side-Mount Auxiliary Contacts**

Contact Configuration	Contact Sequence	Screw Terminals		Spring Cage Terminals		Price U.S. \$ ①
		Pkg. Qty.	Catalog Number	Pkg. Qty.	Catalog Number	
1NO-1NC		5	XTPAXSA11	5	XTPAXSAC11	
1NO-2NC		5	XTPAXSA12	—	—	
2NO-1NC		5	XTPAXSA21	—	—	

① Orders must be placed in multiples of package quantity listed.

**Front-Mount Auxiliary Contacts**



Can be fitted to manual motor protectors (XTPB, XTPR, XTPM) and manual transformer protectors (XTPT). 45 mm (XTPR...B and XTPB) or 55 mm (XTPR...D) widths of manual motor protectors remain unchanged.

**Table 34-151. Front-Mount Auxiliary Contacts**

Contact Configuration	Contact Sequence	Screw Terminals		Spring Cage Terminals		Price U.S. \$ ②
		Pkg. Qty.	Catalog Number	Pkg. Qty.	Catalog Number	
1NO-1NC		5	XTPAXFA11	—	—	
1NO-0NC		5	XTPAXFA10	5	XTPAXFAC10	
0NO-1NC		—	—	5	XTPAXFAC01	

② Orders must be placed in multiples of package quantity listed.

Discount Symbol ..... **1CD7**

**Side-Mount Trip Indicating Auxiliary Contacts**



Can be fitted on the right side of manual motor protectors. Can be combined with standard auxiliary contacts. Trip indication: A. General Trip indication (overload) B. Short-circuit trip. Local short-circuit indication by red indicator, manually resettable.

**Table 34-152. Side-Mount Trip Indicating Auxiliary Contacts**

Contact Configuration	Contact Sequence	Pkg. Qty.	For Use with...	Catalog Number	Price U.S. \$ ①
2 x 1NO		2	XTPB, XTPR, XTPM, XTPT	XTPAXSATR20	
2 x 1NC		2	XTPB, XTPR, XTPM, XTPT	XTPAXSATR02	

① Orders must be placed in multiples of package quantity listed.

**Early-Make Front-Mount Auxiliary Contacts**



**XTPBXFAEM20**



**XTPAXFAEM20**

For use with XTPB..., B-Frame XTPR and XTPT. Can be fitted to the front of a manual motor protector. 45 mm width of manual motor protector remains unchanged. For early energization of undervoltage release, e.g. in Emergency-Stop circuits to EN 60204.

**Table 34-153. Early-Make Front-Mount Auxiliary Contacts**

Contact Configuration	Contact Sequence	Pkg. Qty.	For Use with...	Catalog Number	Price U.S. \$ ②
2NO		5	XTPB	XTPBXFAEM20	
2NO		2	XTPR, XTPM, XTPT	XTPAXFAEM20 ③	

② Orders must be placed in multiples of package quantity listed.

③ Not for use with rotary handle mechanism

Discount Symbol ..... **1CD7**