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## Product Overview

The **XT** line of IEC power control offers starting and protection solutions ideal for control panels.

Innovations in the design and development allow users to reduce material costs, reduce installation effort, and enhance panel safety and performance all in a compact design. Some of these key innovations include:

- Toolless assembly of manual motor controllers and reversing contactors
- Low coil consumption
- Front accessibility to coil terminations
- Built-in surge suppression on electronic coils
- Built-in auxiliary contact for contactors up to 32A in a 45 mm frame
- Finger-safe and back-of-hand proof ratings
- Direct PLC control on 185A–2000A contactors

The **XT** line includes a large offering of power control components and accessories that cover a broad range of applications and ratings:

- Three-pole contactors to 2000A
- Four-pole contactors to 200A
- Capacitor contactors to 680 kVAR
- Mini contactors to 9A
- Relays to 16A
- Thermal overload relays to 630A
- Electronic overload relays to 1500A
- Manual motor protectors to 65A
- Manual motor controllers and combination motor controllers to 65A

## Relays and Timers



## Relays and Timers

## Product Description

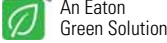
Eaton's new line of **XT** relays and timers includes mini and standard frame control relays and auxiliary contacts, mini electronic on-delay and multi-function timers and an electronic star-delta (wye-delta) timer for use in star-delta (wye-delta) combinations. Because **XT** meets UL®, CSA® and CE 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
  - 24–240 Vac/Vdc control
- Available with screw or spring cage terminals
- Four-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

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## Standards and Certifications

- IEC EN 60947
- CE approved
- UL
- CSA



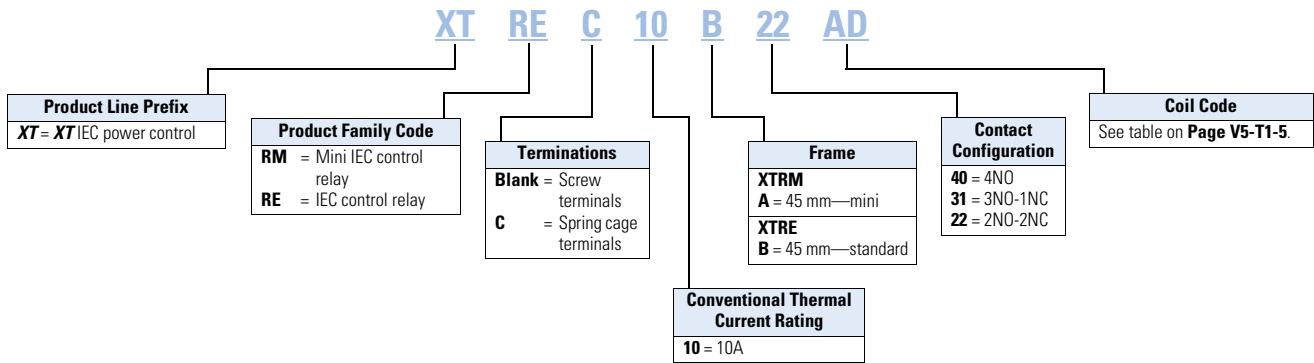
## Instructional Leaflets

Pub51219	XTRM Mini Control Relays
Pub51210	XTRE Control Relays
Pub51244	XTTR Electronic Star-Delta (Wye-Delta) Timer
Pub51245	XTMT Mini Electronic On-Delay and Multi-Function Timers

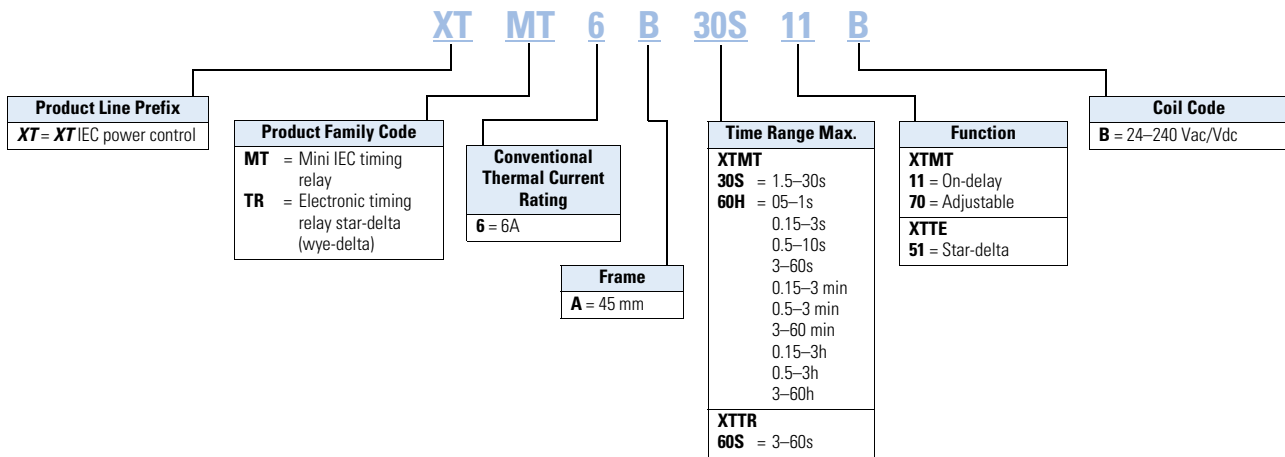
#### 1

### Catalog Number Selection














#### XT—Relays



#### XT—Timers



Front-Mount Auxiliary Contacts for Use with XTRE Control Relays <sup>①</sup>

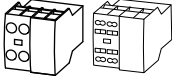
	Conventional Thermal Current, $I_{th}$ (A), Open at 60°C	Poles	Rated Operational Current AC-15 $I_o$ (A)			Contact Configuration	Circuit Symbol	Pkg. Qty. <sup>②</sup>	Screw Terminal Catalog Number
			220V 230V 240V	380V 400V 415V	500V				
<b>Two-Pole</b> 	16	2	6	3	1.5	2NO		5	XTCEXFAC20
	16	2	6	3	1.5	1NO-1NC		5	XTCEXFAC11 <sup>③</sup>
	16	2	6	3	1.5	2NC		5	XTCEXFAC02
	16	2	6	3	1.5	1NO <sub>E</sub> -1NC <sub>L</sub>		5	XTCEXFALC11 <sup>④</sup>
<b>Four-Pole</b> 	16	4	6	3	1.5	4NO		5	XTCEXFAC40 <sup>③</sup>
	16	4	6	3	1.5	3NO-1NC		5	XTCEXFAC31 <sup>③</sup>
	16	4	6	3	1.5	2NO-2NC		5	XTCEXFAC22 <sup>③</sup>
	16	4	6	3	1.5	1NO-3NC		5	XTCEXFAC13
	16	4	6	3	1.5	4NC		5	XTCEXFAC04
	16	4	6	3	1.5	1NO-1NC 1NO <sub>E</sub> -1NC <sub>L</sub>		5	XTCEXFALC22 <sup>④</sup>
	16	4	6	3	1.5				

**Notes**

- <sup>①</sup> 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.
- <sup>②</sup> Orders must be placed in multiples of package quantity listed.
- <sup>③</sup> Catalog number is shown with screw type terminal. For spring cage, add a "C" before the last 2 digits. For example, to order a spring cage version of the XTCEXFAC22, change the catalog number to XTCEXFACC22.
- <sup>④</sup> One early-make contact (NO<sub>E</sub>), one late-break contact (NC<sub>L</sub>).







## Auxiliary Contacts

XTCEXF\_

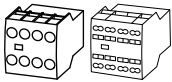


## Frames B–C, Front (Top) Mount—Two-Pole

Conventional Thermal Current,  
Open at 60°C  
 $I_{th} = I_e$ , AC-1 in Amps








	Contact Configuration	Circuit Symbol	Pkg. Qty. ①	Screw Terminal Catalog Number
16	2NO		5	XTCEXFAC20
16	1NO-1NC		5	XTCEXFAC11 ④
16	2NC		5	XTCEXFAC02
16	1NO <sub>E</sub> -1NC <sub>L</sub>		5	XTCEXFALC11 ②
16	1NO-1NC		5	XTCEXFDC11 ③
16	2NC		5	XTCEXFCC02 ③

XTCEXF\_



## Frames B–C, Front (Top) Mount—Four-Pole

Conventional Thermal Current,  
Open at 60°C  
 $I_{th} = I_e$ , AC-1 in Amps

	Contact Configuration	Circuit Symbol	Pkg. Qty. ①	Screw Terminal Catalog Number
16	4NO		5	XTCEXFAC40 ④
16	3NO-1NC		5	XTCEXFAC31 ④
16	2NO-2NC		5	XTCEXFAC22 ④
16	1NO-3NC		5	XTCEXFAC13
16	4NC		5	XTCEXFAC04
16	1NO <sub>E</sub> -1NC <sub>L</sub>		5	XTCEXFCLC22 ②
16	2NO-2NC		5	XTCEXFCC22 ③

## Notes

- 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\_).
- ④ Catalog number is shown with screw type terminal. For spring cage, add a "C" before the last 2 digits. For example, to order a spring cage version of the XTCEXFAC22, change the catalog number to XTCEXFACC22.