

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



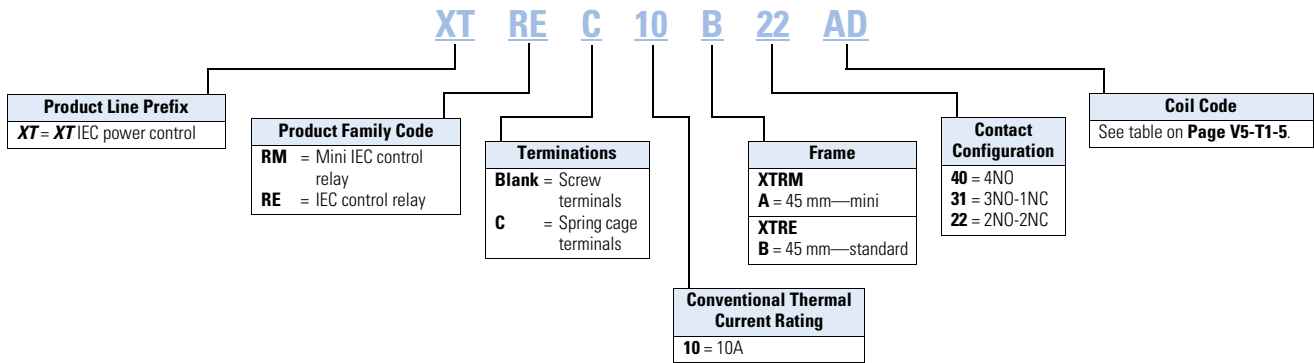
Instructional Leaflets

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

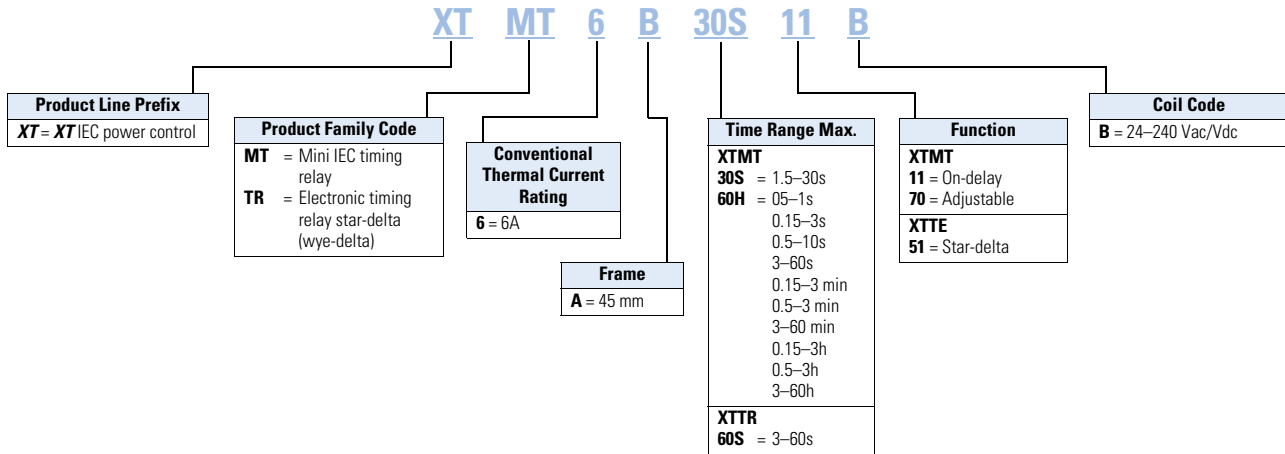
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Catalog Number Selection

XT—Relays



XT—Timers



Product Selection

When Ordering

- 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

XTRM10A_



Mini Control Relays

Conventional Thermal Current I_{th} (A)	Contact Configuration	Rated Operational Current AC-15 I_e (A)			Circuit Symbol	Screw Terminal Catalog Number ^①
		220–240V	380–415V	500V		
10	4NO	6	3	1.5		XTRM10A40_
10	3NO-1NC	6	3	1.5		XTRM10A31_
10	2NO-2NC	6	3	1.5		XTRM10A22_ ^②

XTREC10_



Control Relays

Conventional Thermal Current Open at 60°C I_{th} (A)	Contact Configuration	Rated Operational Current AC-15 I_e (A)			Circuit Symbol	Screw Terminal Catalog Number ^①	Spring Cage Terminal Catalog Number ^①
		220–240V	380–415V	500V			
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

Coil Voltage Suffix

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

Notes

- ① Underscore (_) indicates magnet coil suffix required. See Coil Voltage Suffix table above.
- ② DC operated control relays XTRM(C)10A22_ cannot be used with front mount auxiliary contacts.
- ③ DC operated control relays XTRE(C)10B22_ can only be combined with two-pole auxiliary contacts.

Accessories

Auxiliary Contacts

XTMCF_
















Front-Mount Auxiliary Contacts for Use with XTRM Mini Control Relays

Conventional Thermal Current, I _{th} Open (A)	Rated Operational Current AC-15 I _o (A)			Contact Configuration	Contact Sequence	Pkg. Qty. ①	Screw Terminal Catalog Number
	220V 230V 240V	380V 400V 415V	500V				
10	4	2	1.5	2NC		5	XTMCFXA02
10	4	2	1.5	1NO-1NC		5	XTMCFXA11
10	4	2	1.5	2NO		5	XTMCFXA20
10	4	2	1.5	4NC		5	XTMCFXA04
10	4	2	1.5	1NO-3NC		5	XTMCFXA13
10	4	2	1.5	2NO-2NC		5	XTMCFXA22
10	4	2	1.5	3NO-1NC		5	XTMCFXA31
10	4	2	1.5	4NO		5	XTMCFXA40
10	4	2	1.5	1NO-1NC 1NO _E -1NC _L		5	XTMCFXAL22 ②

Notes

- ① Orders must be placed in multiples of package quantity listed.
- ② One early-make contact (NO_E), one late-break contact (NC_L).

Front-Mount Auxiliary Contacts for Use with XTRE Control Relays ^①

	Conventional Thermal Current, I_{th} (A), Open at 60°C	Poles	Rated Operational Current AC-15 I_e (A)			Contact Configuration	Circuit Symbol	Pkg. Qty. ^②	Screw Terminal Catalog Number
			220V 230V 240V	380V 400V 415V	500V				
Two-Pole 	16	2	6	3	1.5	2NO		5	XTCEXFAC20
	16	2	6	3	1.5	1NO-1NC		5	XTCEXFAC11 ^③
	16	2	6	3	1.5	2NC		5	XTCEXFAC02
	16	2	6	3	1.5	1NO _E -1NC _L		5	XTCEXFALC11 ^④
Four-Pole 	16	4	6	3	1.5	4NO		5	XTCEXFAC40 ^③
	16	4	6	3	1.5	3NO-1NC		5	XTCEXFAC31 ^③
	16	4	6	3	1.5	2NO-2NC		5	XTCEXFAC22 ^③
	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 _E -1NC _L		5	XTCEXFALC22 ^④
	16	4	6	3	1.5	1NO-1NC 1NO _E -1NC _L		5	XTCEXFALC22 ^④

Notes

- ① Interlocked opposing contacts, to IEC/EN 60947-5-1 Annex L (positively driven), within the auxiliary contact modules (not NO_E and NC_L contacts) and between the auxiliary contacts and built-in contacts of the XTRE control relays.
- ② Orders must be placed in multiples of package quantity listed.
- ③ 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.
- ④ One early-make contact (NO_E), one late-break contact (NC_L).