



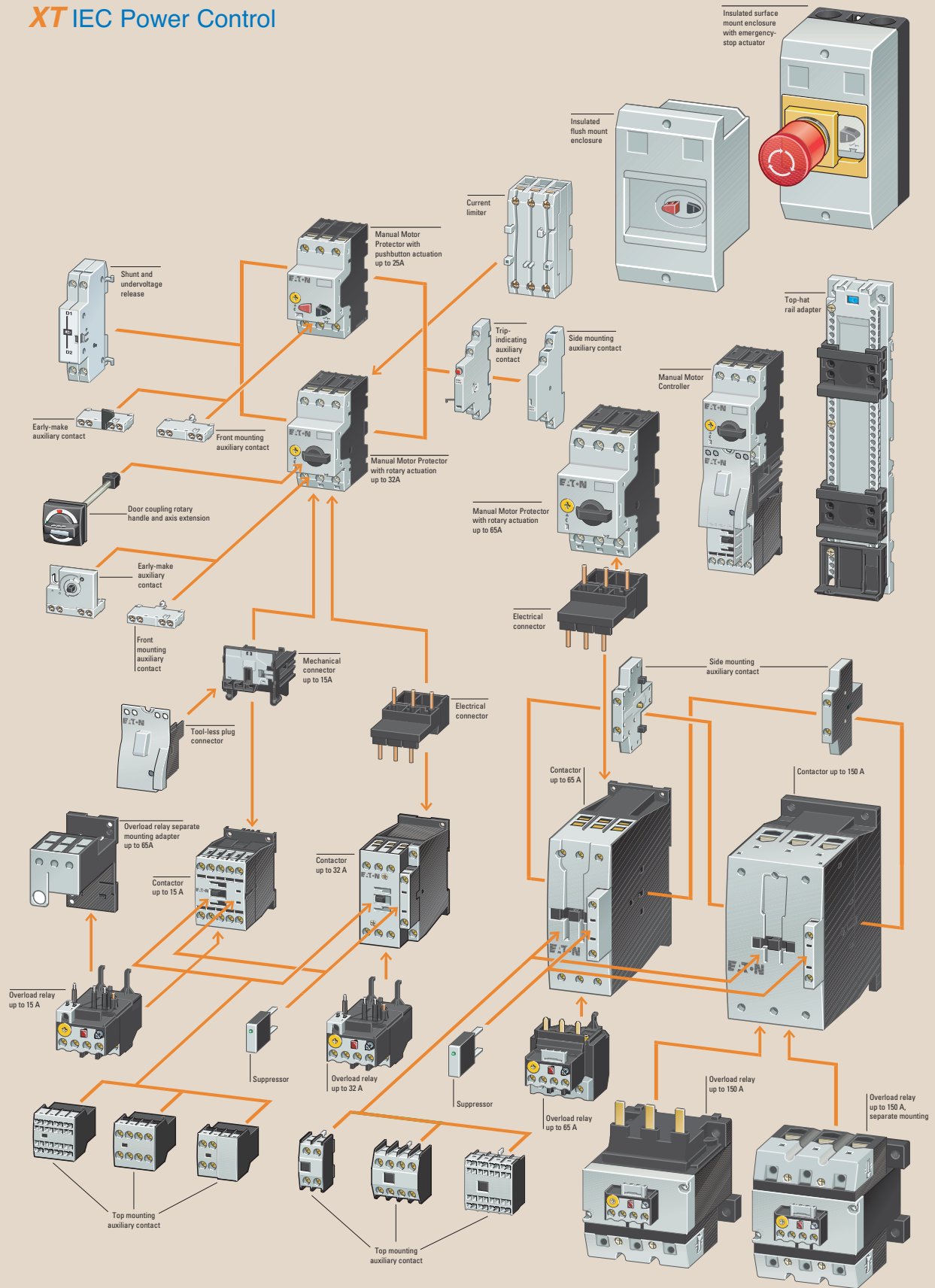
XT IEC Power Control

Quick Reference Guide

Contactors
Starters
Manual Motor
Protectors






XT IEC Power Control



Also available (not shown):

- XT Mini Contactors, 6-9A
- XT Contactors up to 2000A
- XT Overload Relays up to 630A

XT Manual Motor Protectors

						
Catalog Number Selection				Pushbutton B-Frame	Rotary B-Frame	Rotary D-Frame
Example: XTPB P16 B C1 Prefix Frame Size Max Overload Setting Trip Class C1 = 10	⊙	⊙	0.1 – 0.16	XTPBP16BC1	XTPRP16BC1	
	0.06	⊙	0.16 – 0.25	XTPBP25BC1	XTPRP25BC1	
	0.09	⊙	0.25 – 0.40	XTPBP40BC1	XTPRP40BC1	
	0.12	⊙	0.40 – 0.63	XTPBP63BC1	XTPRP63BC1	
	0.25	1/2	0.63 – 1.0	XTPB001BC1	XTPR001BC1	
	0.55	3/4	1.0 – 1.6	XTPB1P6BC1	XTPR1P6BC1	
	0.75	1	1.6 – 2.5	XTPB2P5BC1	XTPR2P5BC1	
	1.5	2	2.5 – 4.0	XTPB004BC1	XTPR004BC1	
	2.2	3	4.0 – 6.3	XTPB6P3BC1	XTPR6P3BC1	
	4.0	7-1/2	6.3 – 10	XTPB010BC1	XTPR010BC1	
	5.5	7-1/2	8 – 12	XTPB012BC1	–	
	7.5	10	9 – 12	–	XTPR012BC1	
	7.5	10	10 – 16	XTPB016BC1	XTPR016BC1	XTPR016DC1
	9.0	10	16 – 20	XTPB020BC1	XTPR020BC1	XTPR025DC1
	12.5	15	20 – 25	XTPB025BC1	XTPR025BC1	XTPR025DC1
	15	25	25 – 32		XTPR032BC1	XTPR032DC1
	20	30	32 – 40			XTPR040DC1
	25	30 [Ⓞ]	40 – 50			XTPR050DC1
	30	40 [Ⓞ]	50 – 58			XTPR058DC1
34	–	55 – 65			XTPR063DC1	
Width			mm	45	45	55
Height			mm	93	93	140
Depth			mm	90.5	76	160
Auxiliary contact modules, front mount				XTPAXFA_ [Ⓞ]		
Auxiliary contact modules, side mount				XTPAXSA_ [Ⓞ]		
Short circuit breaking capacity I _{cu} at 10A / 400V			kA	50 AC/60 DC	150 AC/60 DC	–
Short circuit breaking capacity I _{cu} at 12A / 400V			kA	50 AC/60 DC	50 AC/60 DC	–
Short circuit breaking capacity I _{cu} at 25A / 400V			kA	50 AC/60 DC	50 AC/40 DC	150 AC/60 DC
Short circuit breaking capacity I _{cu} at 32A / 400V			kA	–	50 AC/40 DC	50 AC/60 DC
Short circuit breaking capacity I _{cu} at 65A / 400V			kA	–	–	50 AC/60 DC
Electrical lifespan			Operations	50,000	100,000	30,000
Single-phasing sensitivity				yes	yes	yes
Undervoltage release				XTPAXUVR120V60H [Ⓞ]		
Shunt release				XTPAXSR120V60H [Ⓞ]		
Three-phase commoning link (number of MMPs on bus bar)			MMPs only	2 – 5	2 – 5	2 – 4
			With 1 aux	2 – 5	2 – 5	2 – 4
			With 2 auxs	2 or 4	2 or 4	2 or 4

[Ⓞ] Use motor current for sizing.

[Ⓞ] Consult Eaton for availability.

[Ⓞ] Consult catalog for available auxiliary contact configurations.

[Ⓞ] Consult catalog for other voltage options.

General Applications

Enclosed manual motor protectors (MMPs) are often specified for small fans and blower motors in commercial and industrial applications. OEM opportunities include woodworking machinery, small machine tools, pumps and compressors.

Group Motor Applications

XT manual motor protectors are UL listed for group motor installations. A group motor installation consists of two or more motor circuits protected by a single set of fuses or circuit breaker. This eliminates the need for individual branch fusing or circuit protection.

The reduced cost of components, panel size, wiring, assembly charges and labor are substantial with group motor installations.

Consult NEC Article 430-52 for sizing the branch circuit protective device for a group motor application.

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	Frame Size A				Frame Size B				Frame Size C				Frame Size D				Frame Size F				Frame Size G											
Contactor: Basic Catalog Number	XTMC6A		XTMC9A		XTCE007B		XTCE009B		XTCE012B		XTCE015B		XTCE018C		XTCE025C		XTCE032C		XTCE040D		XTCE050D		XTCE065D		XTCE080F		XTCE095F		XTCE115G		XTCE150G	
Current Ratings (I) IEC 60947-4-1 AC-1 Thermal Current I_{th}	20 Amperes		20 Amperes		20 Amperes		20 Amperes		20 Amperes		20 Amperes		35 Amperes		40 Amperes		40 Amperes		50 Amperes		60 Amperes		72 Amperes		110 Amperes		110 Amperes		160 Amperes		160 Amperes	
AC-3 Operational Power Ratings I_e	kW		hp		kW		hp		kW		hp		kW		hp		kW		hp		kW		hp		kW		hp		kW		hp	
250V	—	1-1/2	—	2	—	1-1/2	—	3	—	3	—	5	—	5	—	7-1/2	—	10	—	10	—	15	—	20	—	25	—	40	—	40		
220/230V	1.5	2	2.2	3	2.2	3	2.5	3	3.5	3	4	5	5	7.5	7.1/2	10	10	12.5	15	15.5	20	20	25	25	30	30	40	37	50	48	60	
380/400V	3	—	4	—	3	—	4	—	5.5	—	7.5	—	7.5	—	11	—	15	—	18.5	—	22	—	30	—	37	—	45	—	55	—	75	
480V	—	3	—	5	—	3	—	5	—	10	—	10	—	15	—	20	—	30	—	30	—	40	—	50	—	60	—	75	—	100	—	125
575V	—	3	—	5	—	5	—	7-1/2	—	10	—	10	—	15	—	20	—	25	—	40	—	50	—	60	—	75	—	100	—	125	—	125
660/690V	3	—	4	—	3.5	—	4.5	—	6.5	—	7	—	11	—	14	—	17	—	23	—	30	—	35	—	63	—	75	—	90	—	95	—
1000V	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Built-in Auxiliary Contacts	10 = 1NO 01 = 1NC																															
Coil Options	00 = 0NO-0NC																															
AC Magnet Coil Data	Pick-Up VA 50/60 Hz, Sealed VA 50/60 Hz, Wire Ranges, Main Cable, Control Circuits, Auxiliary Contacts, Overload Relay, Catalog Numbering System																															

● For 185 – 2000A Contactors at 660/690V or 1000V: Do not reverse directly. ● 7 – 65A – flexible with ferrule cable. ● 185 – 2000A – flexible with cable lug. ● Flexible with ferrule cable. ● With DC Operation: Integrated diode-resistor combination, coil rating 2.5W. ● Contact Eaton for availability.

X7 IEC
Power Control

	Frame Size L			Frame Size M			Frame Size N						Frame Size P		Frame Size R			
Contractor: Basic Catalog Number	XTCE185L	XTCE225L	XTCE250L	XTCE300M	XTCE400M	XTCE500M	XTCE80N	XTCE650N	XTCE750N	XTCE820N	XTCE10N	XTCEC14P	XTCEC20R					
Current Ratings (IEC 60947-4-1 AC-1 Thermal Current I_{th})	275 Amperes	315 Amperes	350 Amperes	400 Amperes	500 Amperes	700 Amperes	800 Amperes	850 Amperes	900 Amperes	1000 Amperes	1000 Amperes	1400 Amperes	2000 Amperes					
AC-3 Operational Power Ratings I_e	kW hp		kW hp		kW hp		kW hp		kW hp		kW hp		kW hp		kW hp			
230V	55	60	60	75	100	125	125	150	155	200	205	250	240	300	260	350	315	
230/230V	90	110	132	160	200	250	315	355	400	400	450	550	600	600	700	800	800	
400V	125	150	200	250	300	400	450	500	500	500	550	600	600	700	800	800	800	
575V	150	200	250	300	300	400	450	500	500	500	550	600	600	700	800	800	800	
660/690V	175	215	240	285	344	344	516	630	720	750	1000	1000	1000	1000	1000	1000	1000	
1000V	108	108	108	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132
Built-in Auxiliary Contacts	22 = 2NO-2NC																	
Coil Options	Coil Voltage Code 110 - 200V AC - 50/60 Hz AC/DC A 220 - 250V AC - 50/60 Hz AC/DC B 380 - 480V AC - 50/60 Hz AC/DC C 24 - 48V AC/DC D																	
AC Magnet Coil Data	Pick-Up VA 50/60 Hz 250 250 250 450 450 450 800 800 800 800 800 800 800 1600 Sealed VA 50/60 Hz 4.3 4.3 4.3 4.3 4.3 4.3 7.5 7.5 7.5 7.5 7.5 7.5 7.5 15																	
Wire Ranges	AWG mm ²		AWG mm ²		AWG mm ²		AWG mm ²		AWG mm ²		AWG mm ²		AWG mm ²		AWG mm ²		AWG mm ²	
Main Cable	10-20/30MCM 50-240	10-20/30MCM 50-240	10-20/30MCM 50-240	10-20/30MCM 50-240	10-20/30MCM 50-240	10-20/30MCM 50-240	10-20/30MCM 50-240	10-20/30MCM 50-240	10-20/30MCM 50-240	10-20/30MCM 50-240	10-20/30MCM 50-240	10-20/30MCM 50-240	10-20/30MCM 50-240	10-20/30MCM 50-240	10-20/30MCM 50-240	10-20/30MCM 50-240	10-20/30MCM 50-240	10-20/30MCM 50-240
Control Circuits	2 x (18-12)	1 x (18-2.5)	2 x (18-12)	2 x (18-12)	2 x (18-12)	2 x (18-12)	2 x (18-12)	2 x (18-12)	2 x (18-12)	2 x (18-12)	2 x (18-12)	2 x (18-12)	2 x (18-12)	2 x (18-12)	2 x (18-12)	2 x (18-12)	2 x (18-12)	2 x (18-12)
Auxiliary Contacts	<p>XTCEX F = Side mount B = Blank = Screw terminals N = Frame D-11 C = Spring cage terminals 11 = 1NO-1NC S = Separate mounting only for XTOT</p>																	
Overload Relay	XTOT 125 L C1 075 = 55 - 10A 100 = 70 - 100A 125 = 95 - 125A 160 = 120 - 160A 200 = 150 - 200A 250 = 200 - 250A			<p>XTOT 160 C1 S T C1 = Class 10 S = Separate mounting only for XTOT</p>														
Catalog Numbering System	Contractors Example: XTCE 185 L 22 A (XT Non-reversing Contractor) (Amp Rating) (Frame) (Auxiliary Contact Configuration) (Coil Code)						Starters Example: XTAE 250 L 22 A 004 (XT Non-reversing Starter) (Amp Rating) (Frame) (Coil Code) (Overload Relay Amp Range)											

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