

Motor Control

Table of Contents

DOL Starters	2-2
DIN Contactors	2-3
XT IEC Motor Control	2-4
XT IEC Miniature Controls	2-5
Miniature Contactors	2-5
Miniature Contactor Overload Relays ..	2-5
Miniature Contactor Accessories	2-6
XT IEC Contactors	2-7
Catalogue Number Selection	2-8
XTCE Three Pole Contactors	2-9
XTCF Four Pole Contactors	2-11
XTCC Capacitor Contactors	2-11
XT IEC Contactor Dimensions	2-12
Auxiliary Contacts	2-13
Auxiliary Contact Combinations	2-14
Electronic Timer Modules	2-15
Contactor Accessories	2-16
Spare Coils	2-17
Overload Relays	2-18
Catalogue Number Selection	2-18
XT IEC Bimetallic Overload Relays	2-19
C396 Electronic Overload Relays	2-21
XT IEC Manual Motor Protectors	2-22
Catalogue Number Selection	2-23
Pushbutton Manual Motor Protectors ..	2-24
Rotary Manual Motor Protectors	2-25
Combination Connection Kits	2-26
XT Manual Motor Protector Accessories	2-27
Type 2 Coordination Tables	2-29
Vacuum 1000V Mining Contactors	2-31
Air Break 1000V Mining Contactors	2-32
IT. IEC Motor Control Products	2-33
IT. IEC Contactors	2-34
IT. IEC Starters	2-35
S752 IT. Soft Starters	2-37
3-wire In-line S752 models	2-37
6-wire Inside-the-delta S752 models ..	2-37
S801 IT. Soft Starters	2-38
S811 IT. Soft Starters	2-39
Accessories for S801 and S811	
Soft Starters	2-39
Accessories for IT. Motor Control.	2-40
24Vdc Power Supplies	2-40
IT. Connectivity	2-41
S701 IT. Soft Start Controllers	2-42
TL IT. Starting Torque Limiters	2-43
S511 Semiconductor	
Reversing Contactor	2-43
Variable Speed Drives	2-44
NFX9000 1-ph OEM drives	2-44
MVX9000 1ph/3-ph OEM drives	2-44
GVX9000 3-ph industrial drives	2-46
Mill Brakes	2-47

Motor Control

DOL Starters



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2



DOL Starters

IP65 Surface Mounting Starter

Fitted with Start and Stop/Reset Pushbuttons

Order Overloads Separately

PART NUMBER	AC-3 Amps	kW (400- 415VAC)	COIL VOLTAGE	AUX CONTACTS	Dimensions (mm)			Price \$ ex GST
					W	H	D	
EDOL40NO240	11	4	240	1NO ●	90	184	113	124.20
EDOL55NO240	12	5.5	240	1NO ●	90	184	113	159.84
EDOL75NO240	16	7.5	240	1NO ●	90	184	113	208.44
EDOL11NO240	22	11	240	1NO ●	100	194	123	268.92
EDOL40NO415	11	4	415	1NO ●	90	184	113	124.20
EDOL55NO415	12	5.5	415	1NO ●	90	184	113	159.84
EDOL75NO415	16	7.5	415	1NO ●	90	184	113	208.44
EDOL11NO415	22	11	415	1NO ●	100	194	123	268.92



Overload Relays

1NO/1NC Electrically Separated Auxiliary Contacts

Single - phase sensitivity for phase imbalance and phase loss protection

Temperature Compensated

Full Load Current (A)	PART NUMBER	To Suit Starter	Price \$ ex GST
0.3 - 0.5	EDOL045TOL	● ● ● ● ●	94.69
0.5 - 0.7	EDOL067TOL	● ● ● ● ●	94.69
0.7 - 1.0	EDOL10TOL	● ● ● ● ●	94.69
1.0 - 1.5	EDOL15TOL	● ● ● ● ●	94.69
1.5 - 2.1	EDOL21TOL	● ● ● ● ●	94.69
2.1 - 2.7	EDOL27TOL	● ● ● ● ●	94.69
2.7 - 3.6	EDOL36TOL	● ● ● ● ●	94.69
3.5 - 5.0	EDOL50TOL	● ● ● ● ●	94.69
4.0 - 6.0	EDOL60TOL	● ● ● ● ●	94.69
5.5 - 8.5	EDOL85TOL	● ● ● ● ●	94.69
8.5 - 12.5	EDOL125TOL	● ● ● ● ●	94.69
13 - 18.0	EDOL18TOL	● ● ● ●	94.69
17.0 - 24.0	EDOL24TOL	● ● ●	94.69
22.0 - 30.0	EDOL30TOL	● ● ●	94.69



Spare Coils

Coils suit all starter sizes

Coil Voltage (AC)	PART NUMBER	Price \$ ex GST
24V	EDOLCOIL24A	26.65
32V	EDOLCOIL32A	26.65
110V	EDOLCOIL110A	26.65
240V	EDOLCOIL240A	26.65
415V	EDOLCOIL415A	26.65
480V	EDOLCOIL480A	26.65
12V	EDOLCOIL12A	26.65

CR Modular DIN Contactors - for general control, heating + lighting applications

Rating AC-1	Contacts	Coil Voltage	Width mm	Catalogue Number	Price \$ ex. GST
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Contactors 20A



20A	1NO + 1NC	230 Vac	18	CR2011230A	102.00
20A	2 NC	230 Vac	18	CR2002230A	102.00
20A	2 NO	230 Vac	18	CR2020230A	102.00
20A	1NO + 1NC	24 Vac/dc	18	CR2011024	113.40
20A	2 NC	24 Vac/dc	18	CR2002024	113.40
20A	2 NO	24 Vac/dc	18	CR2020024	113.40

Contactors 25A



25A	2NO + 2NC	230 Vac	36	CR2522230A	126.40
25A	4 NC	230 Vac	36	CR2504230A	126.40
25A	4 NO	230 Vac	36	CR2540230A	126.40
25A	2NO + 2NC	24 Vac/dc	36	CR2522024	150.10
25A	4 NC	24 Vac/dc	36	CR2504024	150.10
25A	4 NO	24 Vac/dc	36	CR2540024	150.10

Contactors 40A



40A	2 NC	230 Vac/dc	54	CR4002230	215.50
40A	2 NO	230 Vac/dc	54	CR4020230	215.50
40A	4 NO	230 Vac/dc	54	CR4040230	215.50
40A	4 NO	24 Vac/dc	54	CR4040024	215.50

Contactors 63A - AC Coil



63A	2 NO	230 Vac/dc	54	CR6320230	315.40
63A	4 NO	24 Vac/dc	54	CR6340024	315.40
63A	4 NO	230 Vac/dc	54	CR6340230	315.40

Auxiliary Contacts

Description	Contact Config	Rating	Width mm	Cat Number	Price \$ ex. GST
Auxiliary contact for contactors	1NO + 1NC	6A	9mm	CRA611	45.90
Auxiliary contact for contactors	2NO	6A	9mm	CRA620	45.90

Terminal Covers / Spacers



Description	Type Contactor	Width mm	Cat Number	Price \$ ex. GST
Terminal cover, sealable	For 20A	18mm	CRC20	3.40
Terminal cover, sealable	For 25A	36mm	CRC25	3.40
Terminal cover, sealable	For 40 / 63A	54mm	CRC63	5.70
Spacer for contactors*	-	9mm	CRS	9.10

*To be installed after every 2 contactors

Motor Control

XT IEC Miniature Controls



The space-saving and easy-to-install XT line of IEC contactors, overloads, and manual motor protectors is the efficient and effective solution for customer applications from 7-2000A. XT meets IEC, UL, CSA, CCC and CE standards, and is the perfect product solution for applications all over the world.

A global marketplace reinforces the need for global ratings, smaller products for smaller panels, and easier installation and maintenance. XT is the answer. The wide range of applications and suitability for worldwide use call for a variety of operating voltages and ratings, as well as reliable AC and DC control options. Frames L through R can be applied all the way up to 1000V. Vacuum tubes are used for Frames N through R.

XT dramatically reduces mounting and wiring times by allowing standard components to be combined without using tools - quickly and error-free. XT makes installation and maintenance easy with DIN rail mounting for devices up to 65A, reversing and star-delta wiring link kits, and modular combination motor controllers.

Designed for side-by-side mounting, XT is perfect for small spaces. Devices can be mounted closely, and the mechanical interlocking system leaves no space between forward and reversing contactors, leading to smaller panels and enclosures. DC and AC contactors are *identical* in their physical size.

The XT line obtains Type 2 Coordination in accordance with IEC 60947-4-1. An increased level of protection is achieved when the XT contactors are used in conjunction with XT Manual Motor Protectors, Series G Motor Circuit Protectors, or fuses.

- 50kA Type 2 Coordination is achieved with Manual Motor Protectors and Motor Circuit Protectors.
- 100kA Type 2 coordination is achieved with fuses.

Type 2 coordinated motor starters exhibit no damage following a major short circuit fault within its ratings, and the starter can be returned to proper service without replacing any parts. Please see the application tables on page 2-29 and 2-30 for Type 2 Coordination information.

With globally rated contactors, starters, overload relays, and manual motor protectors XT defines power control.

- * AC & DC Contactors are the same compact size!
- * 1000V ratings!
- * Easy installation!
- * Global ratings!
- * Type 2 coordination!

Motor Control

XT IEC Miniature Controls



Due to its compact size, the XT line of mini controls is best suited to be applied in light duty loads such as hoisting, packaging, material handling, heating, lighting and automation systems. XT mini contactors are a particularly compact, economic and environmentally friendly solution wherever control of small motors or loads is required.

W:45mm H:58mm D:52mm

Mini Contactors

Operational Current AC-3 Amp Rating	Thermal Current AC-1	Maximum kW Ratings AC-3			No. of Power Poles	Aux. Contacts	Catalogue Number ①	Price \$ ex.GST	
		3-Phase Motors 50 – 60 Hz					Screw Terminals		
		240V	415V	690V				AC Coil	DC Coil
6.6	20	1.5	3	3	3	1NO	XTMC6A10_	77.35	148.00
6.6	20	1.5	3	3	3	1NC	XTMC6A01_	77.35	148.00
8.8	20	2.2	4	4	3	1NO	XTMC9A10_	83.60	161.35
8.8	20	2.2	4	4	3	1NC	XTMC9A01_	83.60	161.35
8.8	20	2.2	4	4	4	—	XTMF9A00_	88.55	172.30

① Underscore (_) indicates Magnetic Coil Suffix required. See **Coil Selection Chart**.

Coil Selection Chart

AC Coil Voltage (50Hz)	Suffix Code	DC Coil Voltage	Suffix Code
415	C	24	TD
230-240	F	48	WD
110	A		
48	Y		
24	T		

Note: Mini Contactor Coils are not interchangeable. For additional coil voltages contact Eaton.

Overload Relays for XT Mini Contactors



Motor Full Price	Contact	Part	Stock	
0.1-0.16A	1NO-1NC	XTOMP16AC1	S	93.20
0.16-0.24A	1NO-1NC	XTOMP24AC1	S	93.20
0.24-0.4A	1NO-1NC	XTOMP40AC1	S	93.20
0.4-0.6A	1NO-1NC	XTOMP60AC1	S	93.20
0.6-1A	1NO-1NC	XTOM001AC1	S	93.20
1-1.6A	1NO-1NC	XTOM1P6AC1	S	93.20
1.6-2.4A	1NO-1NC	XTOM2P4AC1	S	93.20
2.4-4A	1NO-1NC	XTOM004AC1	S	93.20
4-6A	1NO-1NC	XTOM006AC1	S	93.20
6-9A	1NO-1NC	XTOM009AC1	S	93.20
9-12A	1NO-1NC	XTOM012AC1	S	93.20

Motor Control

XT IEC Miniature Controls Accessories

Auxiliary Contacts for Mini Contactors, Front (top) Mounted

Contact Configuration	Poles	Part Number	Stock Code	Price \$ ex GST
1NO/1NC	2	XTMCXFA11	S	24.00
2NO	2	XTMCXFA20	S	24.00
2NC	2	XTMCXFA02	S	24.00
2NO2NC	4	XTMCXFA22	S	40.75
1NO/3NC	4	XTMCXFA13	S	40.75
3NO1NC	4	XTMCXFA31	S	40.75
4NO	4	XTMCXFA40	S	40.75
4NC	4	XTMCXFA04	S	40.75
1ECNO/1LONC	2	XTMCXFAL11	S	56.90
2ECNO/2LONC	2	XTMCXFAL22	S	76.30

■ Auxiliary contacts are rated for 10A AC-1.

Mechanical Interlock

Description	Catalogue Number	Price \$ ex. GST
Mechanical Interlock	XTMCXML	15.87

Note:

■ For two contactors with AC or DC operated coils that are horizontally or vertically mounted, the distance between contactors is 0 mm.

Reversing Link Kit

Description	Catalogue Number	Price \$ ex. GST
Main current wiring for reversing contactors and starters.	XTMCXRL	31.53

Note:

■ Reversing Link Kit does not include mechanical interlock. Order part No. XTMCXML for Mechanical Interlock.

Star-Delta Link Kit

Description	Catalogue Number	Price \$ ex. GST
Main current wiring for star-delta (wye-delta) combinations. Includes the Star-Delta Bridge.	XTMCXSDL	38.77

Other Accessories

Description	Catalogue Number	Price \$ ex. GST
Connector For mechanically arranging contactors in combinations.	XTMCXCN	0.43
Shroud IP40 Sealable Shroud, snap fit	XTMCXCN	6.15

Note:

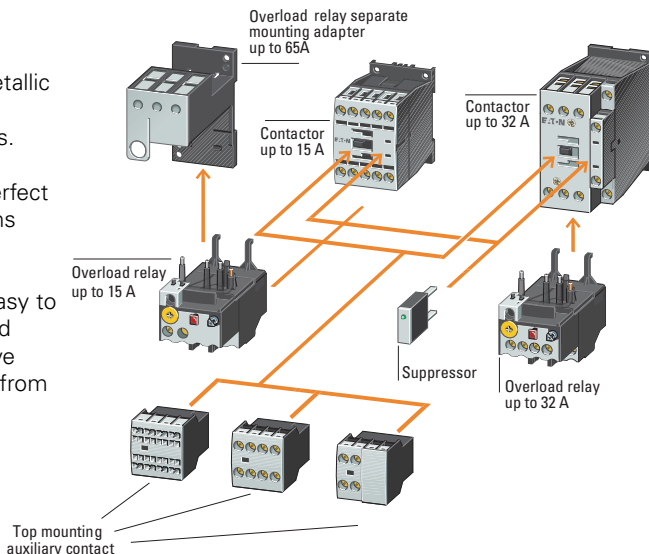
■ 0 mm distance between contactors with connector.

Motor Control

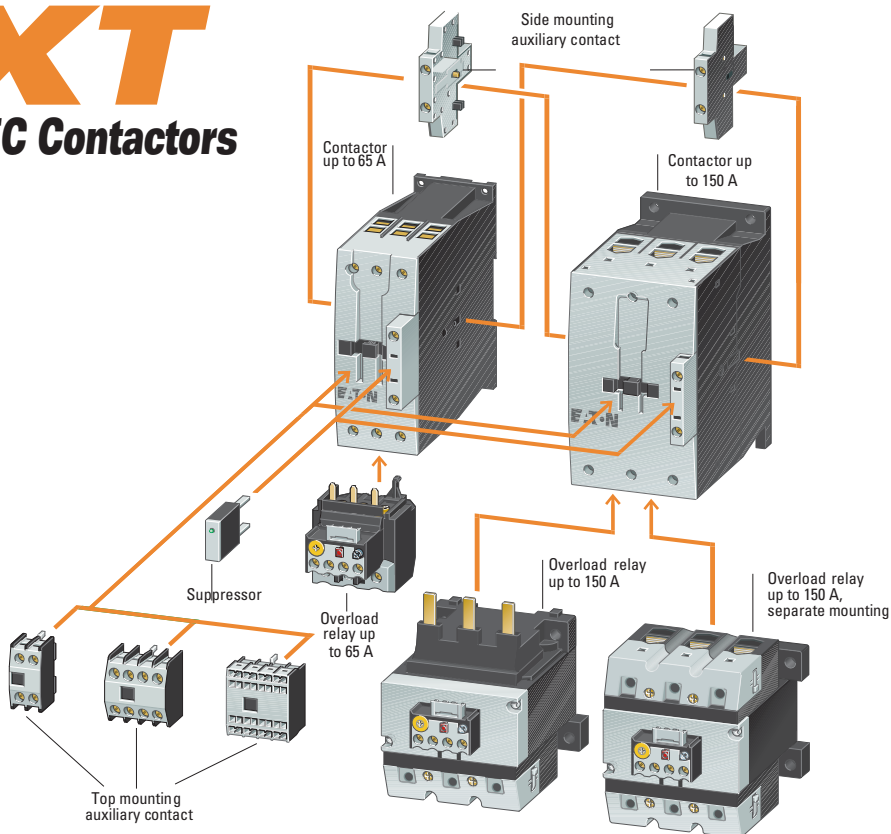
XT IEC Contactors

Eaton's line of XT Contactors and Starters includes contactors, bi-metallic and electronic overload relays and a variety of related accessories. Because XT meets IEC, 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 from 7A to 2000A.



Eaton's **XT** IEC Contactors



Catalogue Number Selection

XTIEC Contactors & Starters — Catalogue Numbering System

NO Aux Contacts

NC Aux Contacts

XTCE

025

C

10

F

Designation

XTCE = XT IEC Contactor

Current Ratings, AC-3	Frame Size Designation	Built-In Auxiliary Contact
007 = 7A 009 = 9A 012 = 12A 015 = 15A	B = 45 mm	10 = 1NO 01 = 1NC
018 = 18A 025 = 25A 032 = 32A	C = 45 mm	
040 = 40A 050 = 50A 065 = 65A	D = 55 mm	00 = 0NO-0NC
080 = 80A 095 = 95A	F = 90 mm	
115 = 115A 150 = 150A	G = 90 mm	
185 = 185A 225 = 225A 250 = 250A	L = 140 mm	22 = 2NO-2NC
300 = 300A 400 = 400A 500 = 500A	M = 160 mm	
580 = 580A 650 = 650A 750 = 750A 820 = 820A C10 = 1000A	N = 250 mm	
C14 = 1400A, AC-1	P = 260 mm	
C16 = 1600A, AC-3 C20 = 2000A, AC-1	R = 515 mm	

Magnet Coil Suffix

Coil Voltage	Suffix Code
Frame B-F	
24V 50/60 Hz	T
12V 50/60 Hz	R
48V 50 Hz	Y
110V 50 Hz, 120V 60 Hz	A
230-240V 50 Hz	F
415V 50 Hz, 480V 60 Hz	C
550V 50 Hz, 600V 60 Hz	D
12V DC	RD
24V DC	TD
48V DC	WD
120V DC	AD
220V DC	BD
Frame G	
24V 50/60 Hz	T
42 – 48V 50/60 Hz	W
100 – 120V 50/60 Hz	A
190 – 240V 50/60 Hz	B
380 – 440V 50/60 Hz	L
480 – 500V 50/60 Hz	C
24 – 27V DC	TD
48 – 60V DC	WD
110 – 130V DC	AD
200 – 240V DC	BD
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 ①
Frame L – M, S-Series	
110 – 120V 50/60 Hz	A
220 – 240V 50/60 Hz	B
Frame P – R	
220 – 250V 50 – 60 Hz/DC	B

This table should be used as a guide only. Refer to following pages for complete part numbers

① Frame L – M only.

Motor Control

XT IEC Contactors



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XT IEC 3-Pole Contactors, Frame B – Frame G

I _e (A)	I _e = I _{th} (A)	Maximum kW Ratings AC-3			Aux. Contacts	Catalogue Number – ①	Price \$ ex. GST	
AC-3	AC-1	3 Ph Motors 50 – 60 Hz					AC Coil	DC Coil
		400V	415V	690V				



Frame B



Frame C



Frame D



Frame F – G

Frame B*

7	20	3	4	3.5	1NO	XTCE007B10_	88.66	199.00
7	20	3	4	3.5	1NC	XTCE007B01_		
9	20	4	5.5	4.5	1NO	XTCE009B10_	102.38	237.00
9	20	4	5.5	4.5	1NC	XTCE009B01_		
12	20	5.5	7	6.5	1NO	XTCE012B10_	125.28	263.00
12	20	5.5	7	6.5	1NC	XTCE012B01_		
15.5	20	7.5	8	7	1NO	XTCE015B10_	153.36	317.00
15.5	20	7.5	8	7	1NC	XTCE015B01_		

* Coils are not Interchangeable on B frame contactors

Frame C

18	35	7.5	10	11	1NO	XTCE018C10_	153.36	317.00
18	35	7.5	10	11	1NC	XTCE018C01_		
25	40	11	14.5	14	1NO	XTCE025C10_	225.72	383.00
25	40	11	14.5	14	1NC	XTCE025C01_		
32	40	15	18	17	1NO	XTCE032C10_	302.40	463.00
32	40	15	18	17	1NC	XTCE032C01_		

Frame D

40	50	18.5	24	23	—	XTCE040D00_	354.24	598.00
50	65	22	30	30	—	XTCE050D00_	372.60	669.00
65	80	30	39	35	—	XTCE065D00_	552.96	896.00

Frame F

80	90	37	48	63	—	XTCE080F00_	630.72	933.00
95	110	45	57	75	—	XTCE095F00_	837.00	1113.00

Frame G

115	130	55	70	90	—	XTCE115G00_	1094.04	1275.00
150	160	75	91	96	—	XTCE150G00_	1260.36	1661.00

① Underscore (_) indicates magnet coil suffix required. See Magnet Coil Suffix Table below.

Magnet Coil Suffix

Coil Voltage	Suffix Code
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Frame B-F

24V 50/60 Hz	T
12V 50/60 Hz	R
48V 50 Hz	Y
110V 50 Hz, 120V 60 Hz	A
230-240V 50 Hz	F
415V 50 Hz, 480V 60 Hz	C
550V 50 Hz, 600V 60 Hz	D
12V DC	RD
24V DC	TD
48V DC	WD
120V DC	AD
220V DC	BD

For dimensions see page 2-10.

Coil Voltage	Suffix Code
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Frame G

24V 50/60 Hz	T
42 – 48V 50/60 Hz	W
100 – 120V 50/60 Hz	A
190 – 240V 50/60 Hz	B
380 – 440V 50/60 Hz	L
480 – 500V 50/60 Hz	C
24 – 27V DC	TD
48 – 60V DC	WD
110 – 130V DC	AD
200 – 240V DC	BD

Motor Control

XT IEC Contactors

2



Frame L



Frame M



Frame N



Frame P



Frame R

XT IEC 3-Pole Contactors, Frame L – Frame R

I _e (A)	I _e = I _{th} (A)	Maximum kW Ratings AC-3				Contacts	Catalogue Number — ①	Price \$ ex. GST
AC-3	AC-1	3-Phase Motors 50 – 60 Hz						
		380/ 400V	415V	660/ 690V	1000V			

Frame L — Standard Coil (110/120V, 230/240V AC Coil Only)

185	275	90	110	175	108	2NO-2NC	XTCS185L22_	1611.00
225	315	110	132	215	108	2NO-2NC	XTCS225L22_	2224.00
250	330	132	148	240	108	2NO-2NC	XTCS250L22_	2743.00

Frame L — Electronic Coil

185	275	90	110	175	108	2NO-2NC	XTCE185L22_	1814.00
225	315	110	132	215	108	2NO-2NC	XTCE225L22_	2440.00
250	350	132	148	240	108	2NO-2NC	XTCE250L22_	3034.00

Frame M — Standard Coil (110/120V, 230/240V AC Coil Only)

300	400	160	180	286	132	2NO-2NC	XTCS300M22_	3445.00
400	500	200	240	344	132	2NO-2NC	XTCS400M22_	3693.00
500	700	250	300	344	132	2NO-2NC	XTCS500M22_	5717.00

Frame M — Electronic Coil

300	400	160	180	286	132	2NO-2NC	XTCE300M22_	3661.00
400	500	200	240	344	132	2NO-2NC	XTCE400M22_	3898.00
500	700	250	300	344	132	2NO-2NC	XTCE500M22_	5855.00

Frame N — Electronic Coil (Vacuum Contactor)

580	800	315	348	560	600	2NO-2NC	XTCE580N22_	7363.00
650	850	355	390	630	600	2NO-2NC	XTCE650N22_	8434.00
750	900	400	455	720	800	2NO-2NC	XTCE750N22_	9393.00
820	1000	450	500	750	800	2NO-2NC	XTCE820N22_	12165.00
1000	1000	560	610	1000	1000	2NO-2NC	XTCEC10N22_	②

Frame P — Electronic Coil (Vacuum Contactor)

—	1400	—	—	—	—	2NO-2NC	XTCEC14P22_	②
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Frame R — Electronic Coil (Vacuum Contactor)

1600	1800	900	900	1600	1700	2NO-2NC	XTCEC16R22_	②
—	2000	—	—	—	—	2NO-2NC	XTCEC20R22_	②

① Underscore (_) indicates magnet coil suffix required. See **Coil Selection Chart**.

② Contact Eaton for pricing

Magnet Coil Suffix

Coil Voltage	Suffix Code
Frame L – N (XTCE Electronic Coil)	
110 – 250V 40 – 60 Hz/DC	A
250 – 500V 40 – 60 Hz	C
48 – 110V 40 – 60 Hz/DC	Y
24 – 48V DC	TD ②

Frame L – M (XTCS Standard Coil)

110 – 120V 50/60 Hz	A
220 – 240V 50/60 Hz	B

Frame P – R

220 – 250V 50 – 60 Hz/DC	B
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② Frame L – M only.

XTCS & XTCE Contactors Frame L - R

XTCS - Simplified control

- Cost Saving
- 110 and 240V AC Control Only
- L & M Frames

XTCE - electronic coil

- Wide range of control voltages
- Can be controlled by a PLC output
- Can be controlled by a low power command device, like a limit switch or sensor.

Motor Control

XT IEC Four Pole and Capacitor Contactors

XTCF 4-Pole Contactors, Frame B – Frame G

I _e (A)	I _e = I _{th} (A)	Maximum kW Ratings AC-3		Catalogue Number ①	Price \$ ex. GST	
AC-3	AC-1	3 Ph Motors 50 – 60 Hz			AC Coil	DC Coil
		400V kW	415V kW			

Frame B

12	20	5.5	7	XTCF020B00_	99.00	285.00
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Frame C

18	32	7.5	10	XTCF032C10_	199.00	340.00
25	45	11	14.5	XTCF045C10_	248.00	453.00

Frame D

40	63	18.5	24	XTCF063D00_	623.00	740.00
50	80	22	30	XTCF080D00_	799.00	1009.00

Frame G*

80	125	37	48	XTCF125G00_	1074.00	1090.00
95	160	45	57	XTCF160G00_	1096.00	1096.00
115	200	55	70	XTCF200G00_	1101.00	1101.00

*See page 2-7 for G frame coil suffix

XTCC Capacitor Contactors, Frame C – Frame D

Switching duty in kvar - Group compensation, without reactor				Catalogue Number ①	Price \$ ex. GST	
230V	400V	525V	690V		AC Coil	DC Coil

Frame C

11	20	25	33.3	XTCC020C11_	395.00	②
15	25	33.3	40	XTCC025C11_	440.00	②

Frame D

20	33.3	40	55	XTCC033D10_	930.00	②
25	50	65	85	XTCC050D10_	1043.00	②

① Underscore () indicates magnet coil suffix required. See Coil Selection Chart.
② Contact Eaton for pricing



Magnet Coil Suffix

Coil Voltage	Suffix Code
Frame B-F	
24V 50/60 Hz	T
12V 50/60 Hz	R
48V 50 Hz	Y
110V 50 Hz, 120V 60 Hz	A
230-240V 50 Hz	F
415V 50 Hz, 480V 60 Hz	C
550V 50 Hz, 600V 60 Hz	D
12V DC	RD
24V DC	TD
48V DC	WD
120V DC	AD
220V DC	BD

XT IEC Contactor Dimensions



Frame B



Frame C



Frame D



Frame F – G

Dimensions 3 Pole (mm)

Frame	W	H	D
B	45	68	75
C	45	85	97.4
D	55	104	132.1
F-G	90	170	160
L	140	180	208
M	160	200	216
N	250	296	232
P	260	342	232
R	515	392	252

Dimensions 4 Pole (mm)

Frame	W	H	D
B	45	68	75
C	55	85	97.4
D	75	104	132.1
G	120	170	160



Frame L



Frame M



Frame N



Frame P



Frame R

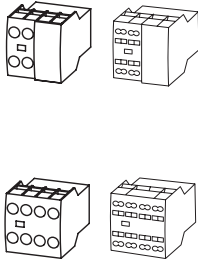
Motor Control

XT IEC Contactor Auxiliaries

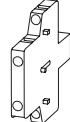
Auxiliary Contacts

	AC-1 in Amps	Poles	Contact Configuration	Catalogue Number	Price \$ ex. GST
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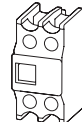
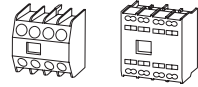
Frame B – C — Front (top) Mount

	16	2	2NO	XTCEXFAC20	29.00
	16	2	1NO-1NC	XTCEXFAC11	29.00
	16	2	2NC	XTCEXFAC02	29.00
	16	2	1NO _E -1NC _L	XTCEXFALC11 ^②	29.00
	16	4	4NO	XTCEXFAC40	51.50
	16	4	3NO-1NC	XTCEXFAC31	51.50
	16	4	2NO-2NC	XTCEXFAC22	51.50
	16	4	1NO-3NC	XTCEXFAC13	51.50
	16	4	4NC	XTCEXFAC04	51.50

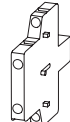
Frame C — Side Mount

	10	2	1NO-1NC	XTCEXSCC11 ^④	40.60
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Frame D – G — Front (top) Mount

	16	2	2NO	XTCEXFBG20	29.00
	16	2	1NO-1NC	XTCEXFBG11	29.00
	16	2	2NC	XTCEXFBG02	29.00
	16	4	4NO-0NC	XTCEXFBG40	51.50
	16	4	3NO-1NC	XTCEXFBG31	51.50
	16	4	2NO-2NC	XTCEXFBG22	51.50
	16	4	1NO-3NC	XTCEXFBG13	51.50
	16	4	4NC	XTCEXFBG04	51.50
	16	4	1NO _E -1NC _L	XTCEXFBLG22 ^②	51.50

Frame D – R — Side Mount

	10	2	1NO-1NC	XTCEXSBN11	46.50
	10	2	1NO _E -1NC _L	XTCEXSBLN11 ^②	46.50

^② 1 early-make contact (1NO_E), 1 late-break contact (1NC_L).

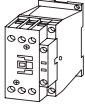
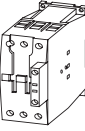
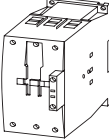
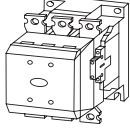
^④ Can be mounted to the left side of contactor only. Can not be used in combination with front (top) mount auxiliary contacts or mechanical interlocks.

Motor Control

XT IEC Contactor Auxiliaries

2

Auxiliary Contacts Possible Combinations

Frame Size	Catalogue Number	Contactor	Built-In Auxiliary	Front (Top) Mount		Side Mount	Total Auxiliary Contacts Available
				2-Pole	4-Pole	2-Pole	
A	XTMC6A... – XTMC9A...		1NO or 1NC	1	—	—	3
				—	1	—	5
						—	—
B	XTCE007B... – XTCE015B...		1NO or 1NC	1	—	—	3
				—	1	—	5
						—	—
C	XTCE018C... – XTCE032C...		1NO or 1NC	1	—	—	3
				—	1	—	5
				—	—	1	3
							—
D	XTCE040D00 – XTCE065D00		—	1	—	2	6
				—	1	1	6
							—
F – G	XTCE080F00 – XTCE150G00		—	1	—	2	6
				—	1	2	8
				—	—	4	8
							—
L – R	XTCE185L22 – XTCEC20R22		2NO-2NC	—	—	2	8
				—	—		—

Motor Control

XT IEC Contactor Accessories

Electronic Timer Modules

Electronic Timer Modules for Frame B – C Contactors (7 – 32A) ①



Voltage	Contact Sequence	Timing Range	Catalogue Number	Price \$ ex. GST
On-Delayed				
24V AC/DC	1NO/1NC	0.05 s – 1 s 0.5 – 10 s 5 s – 100 s	XTCEXTEEC11T	200.90
100 – 130V AC			XTCEXTEEC11A	200.90
200 – 240V AC			XTCEXTEEC11B	200.90
Off-Delayed				
24V AC/DC	1NO/1NC	0.05 s – 1 s	XTCEXTED1C11T	200.90
100 – 130V AC			XTCEXTED1C11A	200.90
200 – 230V AC			XTCEXTED1C11B	200.90
24V AC/DC	1NO/1NC	0.5 – 10 s	XTCEXTED10C11T	200.90
100 – 130V AC			XTCEXTED10C11A	200.90
200 – 240V AC			XTCEXTED10C11B	200.90
24V AC/DC	1NO/1NC	5 s – 100 s	XTCEXTED100C11T	218.15
100 – 130V AC			XTCEXTED100C11A	218.15
200 – 240V AC			XTCEXTED100C11B	218.15
Star-Delta				
24V AC/DC	2NO	1 s – 30 s	XTCEXTEYC20T	209.50
100 – 130V AC			XTCEXTEYC20A	209.50
200 – 240V AC			XTCEXTEYC20B	209.50

- ① Front (Top) mounted timer modules for use with XTCE...B and XTCE...C contactors.
Can not be combined with top mount auxiliary contacts XTCEXF...C__.

Electronic Star-Delta Timers



Table 34-19. Electronic Star-Delta (Wye-Delta) Timers

Thermal Current I_e (A)	Time Range	Catalogue Number	Price \$ ex. GST
6	3 – 60 sec	XTTR6A60S51B	253.80

Actuating Voltage

24 – 240 50/60 Hz
24 – 240V DC

Motor Control

XT IEC Contactor Accessories

2

Star-Delta Link Kits

Main current wiring for star-delta combinations. Includes Paralleling Bridge, Reversing Bridge, and Star-Delta Bridge. Does not include Mechanical Interlock.

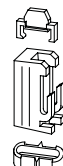
	For Use with...	Catalogue Number	Price \$ ex. GST
	XTCE007B – XTCE015B	XTCEXSDLB	100.11
	XTCE018C – XTCE032C	XTCEXSDLC	100.11
	XTCE040D – XTCE065D	XTCEXSDLD	154.11
	XTCE080F – XTCE095F	XTCEXSDF	453.60
	XTCE115G – XTCE150G	XTCEXSDLG	559.44
	XTCE185L – XTCE225L	XTCEXSDLL225	559.44
	XTCE250L	XTCEXSDLL250	559.44
	XTCE300M – XTCE400M	XTCEXSDLM400	559.44

Reversing Link Kits

Main current wiring for reversing combinations. Includes Paralleling Bridge and Reversing Bridge. Does not include Mechanical Interlock.

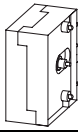
	For Use with...	Catalogue Number	Price \$ ex. GST
	XTCE007B – XTCE015B	XTCEXRLB ④	91.80
	XTCE018C – XTCE032C	XTCEXRLC	91.80
	XTCE040D – XTCE065D	XTCEXRLD	102.60
	XTCE080F – XTCE095F	XTCEXRLF	102.60
	XTCE115G – XTCE150G	XTCEXRLG	451.44
	XTCE185L – XTCE250L	XTCEXRLL	997.92
	XTCE300M – XTCE400M	XTCEXRLM400	1161.00

Connector

	For Use with Frames...	Catalogue Number	Price \$ ex. GST
	B – C	XTCEXCNC	0.59
	D – G	XTCEXCNG	0.81

■ For mechanically arranging contactors in combinations. Distance between contactors is 0mm.

Mechanical Interlock

	For Use with Frame...	Catalogue Number	Price \$ ex. GST
	B	XTCEXMLB	15.01
	C D F – G	XTCEXMLC XTCEXMLD XTCEXMLG ③	15.28 31.53 31.53
	L – M N	XTCEXMLM XTCEXMLN ③	82.51 784.08

■ For two contactors with AC or DC operated magnet system which are horizontally or vertically mounted. For frames B - G, distance between contactors is 0mm. For L-N Frames, the distance between contactors is 15mm.

■ Includes connectors

③ XTCEXMLG and XTCEXMLN consist of an interlock element and mounting plate.

Reversing Contactor Components

Qty	Frame	B	C	D	F	G
2	Contactors	XTCE...B01_	XTCE...B01_	XTCE...D00_	XTCE...F00_	XTCE...G00_
2	Auxiliary Contact	XTCEXFAC20	XTCEXFAC20	XTCEXFBG11	XTCEXFBG11	XTCEXFBG11
1	Reversing Link Kit	XTCEXRLB	XTCEXRLC	XTCEXRLD	XTCEXRLG	XTCEXRLG

Motor Control

XT IEC Contactor Accessories

Terminal Shrouds

	For Use with...	Catalogue Number	Price \$ ex. GST
	XTCE185L – XTCE400M	XTCEXTS400	64.80
	XTCE500M	XTCEXTS500	76.68
	XTCE580N – XTCE650N	XTCEXTS650	180.36
	XTCE750N – XTCEC10N	XTCEXTS820	203.04

3-Phase Commoning Link

Main current wiring that parallels and commons the line side of multiple contactors. For use with Frame B contactors only. Protected against accidental contact, short-circuit proof.



XTCEXCLK3B XTCEXCLK4B XTCEXCLK5B

Notes	Catalog Number	Price \$ ex. GST
Suitable for 3 contactors, length = 135 mm	XTCEXCLK3B	36.72
Suitable for 4 contactors, length = 180 mm	XTCEXCLK4B	46.44
Suitable for 5 contactors, length = 225 mm	XTCEXCLK5B	57.24

Coil Surge Suppressor



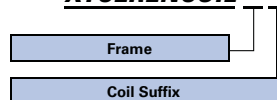
Voltage	For Use with...	Catalogue Number	Price \$ ex. GST
24 – 48 48 – 130 110 – 240 240 – 500	XTCE007B – XTCE015B, XTCF020B	XTCEXRSBW	28.35
		XTCEXRSBA	28.35
		XTCEXRSBB	28.35
		XTCEXRSBC	28.35
24 – 48 110 – 130 130 – 240 240 – 500	XTCE018C – XTCE032C	XTCEXRSCW	28.35
		XTCEXRSCA	28.35
		XTCEXRSCB	28.35
		XTCEXRSCC	28.35
24 – 48 110 – 130 130 – 240 240 – 500	XTCE040D – XTCE095F	XTCEXRSFW	28.35
		XTCEXRSFA	28.35
		XTCEXRSFB	28.35
		XTCEXRSFC	28.35

■ For AC operated contactors, 50 – 60 Hz. DC contactors have a built-in suppressor.

■ Also built into G-R frame contactors

Replacement Coils

XTCERENCOIL



Frame	Ex GST AC Price	Ex GST DC Price
C	37.80	174.96
D	43.20	201.96
F	95.04	230.04
G	164.16	240.84
L	793.80	
M	1191.24	
N	1884.60	

Motor Control

XT IEC Bi-metallic Overload Relays



Catalogue Number Selection

XT IEC Overload Relays — Catalogue Numbering System

2

XT OB P16 B C1 S

Designation

XT = XT Line of IEC Control

Type

OB = Bimetallic Overload Relay
OT = Current Transformer Overload Relay

Mounting

BLANK = Direct to Contactor
S = Separate Mount

Trip Class

C1 = Class 10A
C3 = Class 30

Overload Release

Frame B

P16 = 0.1 – 0.16A
P24 = 0.16 – 0.24A
P40 = 0.24 – 0.4A
P60 = 0.4 – 0.6A
001 = 0.6 – 1A
1P6 = 1.0 – 1.6A
2P4 = 1.6 – 2.4A
004 = 2.4 – 4A
006 = 4 – 6A
010 = 6 – 10A
012 = 9 – 12A
016 = 12 – 16A

Frame C

P16 = 0.1 – 0.16A
P24 = 0.16 – 0.24A
P40 = 0.24 – 0.4A
P60 = 0.4 – 0.6A
001 = 0.6 – 1A
1P6 = 1.0 – 1.6A
2P4 = 1.6 – 2.4A
004 = 2.4 – 4A
006 = 4 – 6A
010 = 6 – 10A
016 = 10 – 16A
024 = 16 – 24A
032 = 24 – 32A

Frame D

010 = 6 – 10A
016 = 10 – 16A
024 = 16 – 24A
040 = 24 – 40A
057 = 40 – 57A
065 = 50 – 65A

Frame F

035 = 25 – 35A
050 = 35 – 50A
070 = 50 – 70A
100 = 70 – 100A

Frame G

035 = 25 – 35A
050 = 35 – 50A
070 = 50 – 70A
100 = 70 – 100A
125 = 95 – 125A
150 = 120 – 150A

Frame L

070 = 50 – 70A
100 = 70 – 100A
125 = 95 – 125A
160 = 120 – 160A
220 = 160 – 220A
250 = 200 – 250A

Frame M

063 = 42 – 63A
090 = 60 – 90A
125 = 85 – 125A
160 = 110 – 160A
240 = 160 – 240A
290 = 190 – 290A
400 = 270 – 400A
540 = 360 – 540A

Frame N

063 = 42 – 63A
090 = 60 – 90A
125 = 85 – 125A
160 = 110 – 160A
240 = 160 – 240A
290 = 190 – 290A
400 = 270 – 400A
540 = 360 – 540A
630 = 420 – 630A

Frame Size Designation

B = 45 mm

C = 45 mm

D = 55 mm

G = 90 mm

L = 140 mm

BLANK = XTOT Only

Motor Control

XT IEC Bi-metallic Overload Relays

Overload Relay

	Overload Releases, I _r FLC (Full Load Current)	Contact Configuration	For Use with Contactor Amp Range	Catalogue Number	Price \$ ex. GST
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Frame B — Direct Mount

	0.1 – 0.16	1NO-1NC	7 – 15A	XTOBP16BC1	115.50
	0.16 – 0.24	1NO-1NC	7 – 15A	XTOBP24BC1	115.50
	0.24 – 0.4	1NO-1NC	7 – 15A	XTOBP40BC1	115.50
	0.4 – 0.6	1NO-1NC	7 – 15A	XTOBP60BC1	115.50
	0.6 – 1	1NO-1NC	7 – 15A	XTOB001BC1	115.50
	1 – 1.6	1NO-1NC	7 – 15A	XTOB1P6BC1	115.50
	1.6 – 2.4	1NO-1NC	7 – 15A	XTOB2P4BC1	115.50
	2.4 – 4	1NO-1NC	7 – 15A	XTOB004BC1	115.50
	4 – 6	1NO-1NC	7 – 15A	XTOB006BC1	115.50
	6 – 10	1NO-1NC	7 – 15A	XTOB010BC1	115.50
	9 – 12	1NO-1NC	9 – 15A	XTOB012BC1	115.50
	12 – 16	1NO-1NC	12 – 15A	XTOB016BC1	115.50

Frame C — Direct Mount

	0.1 – 0.16	1NO-1NC	18 – 32A	XTOBP16CC1	128.50
	0.16 – 0.24	1NO-1NC	18 – 32A	XTOBP24CC1	128.50
	0.24 – 0.4	1NO-1NC	18 – 32A	XTOBP40CC1	128.50
	0.4 – 0.6	1NO-1NC	18 – 32A	XTOBP60CC1	128.50
	0.6 – 1	1NO-1NC	18 – 32A	XTOB001CC1	128.50
	1 – 1.6	1NO-1NC	18 – 32A	XTOB1P6CC1	128.50
	1.6 – 2.4	1NO-1NC	18 – 32A	XTOB2P4CC1	128.50
	2.4 – 4	1NO-1NC	18 – 32A	XTOB004CC1	128.50
	4 – 6	1NO-1NC	18 – 32A	XTOB006CC1	128.50
	6 – 10	1NO-1NC	18 – 32A	XTOB010CC1	128.50
	10 – 16	1NO-1NC	18 – 32A	XTOB016CC1	128.50
	16 – 24	1NO-1NC	18 – 32A	XTOB024CC1	128.50
	24 – 32	1NO-1NC	25 – 32A	XTOB032CC1	128.50

Frame D — Direct Mount

	6 – 10	1NO-1NC	40 – 65A	XTOB010DC1	135.00
	10 – 16	1NO-1NC	40 – 65A	XTOB016DC1	135.00
	16 – 24	1NO-1NC	40 – 65A	XTOB024DC1	135.00
	24 – 40	1NO-1NC	40 – 65A	XTOB040DC1	205.20
	40 – 57	1NO-1NC	50 – 65A	XTOB057DC1	262.40
	50 – 65	1NO-1NC	65A	XTOB065DC1	262.40

Motor Control

XT IEC Bi-metallic and Current Transformer Overload Relays

Overload Relay

	Overload Releases, I _r FLC (Full Load Current)	Contact Configu- ration	For Use with Contactor Amp Range	Catalogue Number	Price \$ ex. GST
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Frame F – G — Direct Mount

	25 – 35	1NO-1NC	80 – 150A	XTOB035GC1	278.00
	35 – 50	1NO-1NC	80 – 150A	XTOB050GC1	317.00
	50 – 70	1NO-1NC	80 – 150A	XTOB070GC1	326.00
	70 – 100	1NO-1NC	80 – 150A	XTOB100GC1	436.00
	95 – 125	1NO-1NC	80 – 150A	XTOB125GC1	461.00
	120 – 150	1NO-1NC	80 – 150A	XTOB150GC1	501.00

Frame F – G — Separate Mount

	25 – 35	1NO-1NC	80 – 150A	XTOB035GC1S	294.00
	35 – 50	1NO-1NC	80 – 150A	XTOB050GC1S	331.00
	50 – 70	1NO-1NC	80 – 150A	XTOB070GC1S	345.00
	70 – 100	1NO-1NC	80 – 150A	XTOB100GC1S	406.00
	95 – 125	1NO-1NC	80 – 150A	XTOB125GC1S	497.00
	120 – 150	1NO-1NC	80 – 150A	XTOB150GC1S	536.00

Frame L

	50 – 70	1NO-1NC	185 – 250A	XTOB070LC1	821.00
	70 – 100	1NO-1NC	185 – 250A	XTOB100LC1	857.00
	95 – 125	1NO-1NC	185 – 250A	XTOB125LC1	857.00
	120 – 160	1NO-1NC	185 – 250A	XTOB160LC1	942.00
	160 – 220	1NO-1NC	185 – 250A	XTOB220LC1	942.00
	200 – 250	1NO-1NC	225 – 250A	XTOB250LC1	942.00

Frame M – N — Separate Mount

	42 – 63	1NO-1NC	300 – 500A	XTOT063C3S	891.00
	60 – 90	1NO-1NC	300 – 500A	XTOT090C3S	891.00
	85 – 125	1NO-1NC	300 – 500A	XTOT125C3S	1017.00
	110 – 160	1NO-1NC	300 – 500A	XTOT160C3S	1017.00
	160 – 240	1NO-1NC	300 – 500A	XTOT240C3S	1195.00
	190 – 290	1NO-1NC	300 – 500A	XTOT290C3S	1195.00
	270 – 400	1NO-1NC	300 – 500A	XTOT400C3S	1198.00
	360 – 540	1NO-1NC	500A	XTOT540C3S	1359.00
	420 – 630	1NO-1NC	630A	XTOT630C3S	1359.00

DIN Rail or Panel Mount Adapter, Frame C – D ②

	For Use with...	Catalogue Number	Price \$ ex. GST
	XTOB...CC1	XTOBXDINC	33.50
	XTOB...DC1	XTOBXDIND	53.50

② Can be snap fitted on a DIN rail or can be screw fitted.

Motor Control

Electronic Overload Relays

C396 Electronic Overload Relays



2

C396 Overload for Integrated Use with XT IEC Contactors

FLA Range (Amps)	XTIEC Contactor Frame Size / Width	Standard Class 5/10/20/30		
		Catalogue Number	Price \$ ex. GST	Stock Code
45 mm Overload Frame Size				
0.1 – 0.5	B / 45 mm	C396A2AP05SELXB	192.00	S
0.4 – 2.0	B / 45 mm	C396A2A002SELXB	192.00	I
1 – 5	B / 45 mm	C396A2A005SELXB	192.00	S
1.6 – 8	B / 45 mm	C396A2A008SELXB	192.00	S
6.4 – 32	B / 45 mm	C396A2A032SELXB	192.00	I
0.1 – 0.5	C / 45 mm	C396A2AP05SELXC	322.00	S
0.4 – 2.0	C / 45 mm	C396A2A002SELXC	322.00	S
1 – 5	C / 45 mm	C396A2A005SELXC	322.00	I
1.6 – 8	C / 45 mm	C396A2A008SELXC	322.00	S
6.4 – 32	C / 45 mm	C396A2A032SELXC	322.00	S
6.4 – 32	D / 55 mm	C396A2A032SELXD	437.00	I
9 – 45	D / 55 mm	C396A2A045SELXD	437.00	S

65 mm Overload Frame Size

15 – 75	D / 55 mm	C396B2A075SELXD	437.00	S
22 – 110	F – G / 90 mm	C396B2A110SELXF	520.00	I

110 mm Overload Frame Size — Stand-Alone or Direct to XT Contactor with Indicated Kit

30 – 150	G / 90 mm	C396C2A150SELAX ③	642.00	I
110 mm XT Bus Bar Kit		C396CBARXT	60.00	S

③ Catalogue Number shown is for Stand-Alone C396 Overload Relay. For direct connection to Frame G contactor, order additional 110 mm XT Bus Bar Kit, C396CBARXT

C396 Stand-Alone Overload Relay

FLA Range (Amps)	Standard Class 5/10/20/30		
	Catalogue Number	Price \$ ex. GST	Stock Code
45 mm Overload Frame Size			
0.1 – 0.5	C396A2AP05SELAX	213.00	S
0.4 – 2.0	C396A2A002SELAX	213.00	S
1 – 5	C396A2A005SELAX	213.00	S
1.6 – 8	C396A2A008SELAX	213.00	S
6.4 – 32	C396A2A032SELAX	213.00	S
9 – 45	C396A2A045SELAX	213.00	S
65 mm Overload Frame Size			
15 – 75	C396B2A075SELAX	486.00	S
22 – 110	C396B2A110SELAX	577.00	S
110 mm Overload Frame Size			
30 – 150	C396C2A150SELAX	642.00	S

Current Transformer Kits

For use with 45 m 1 – 5A C396 Overload(C396A2A005SELAX). Includes CT and Hardware to mount C396.

60 – 300	C396CTK300	300: 5 CT Kit	POA	I
120 – 600	C396CTK600	600: 5 CT Kit	POA	I
200 – 1000	C396CTK1000	1000: 5 CT Kit	POA	I
300 – 1500	C396CTK1500	1500: 5 CT Kit	POA	I

Note: Remote resets available. Contact Eaton

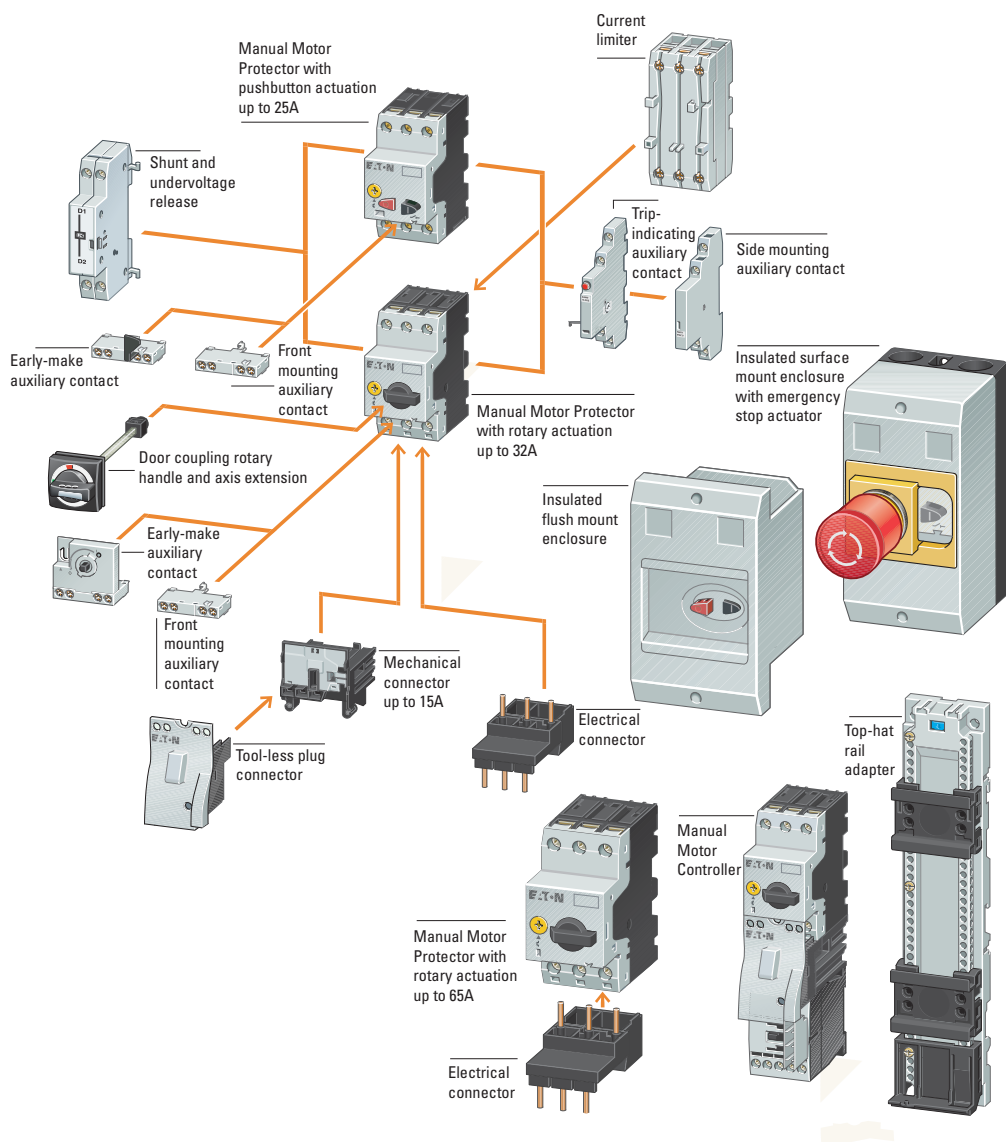
Motor Control

XT Manual Motor Protectors

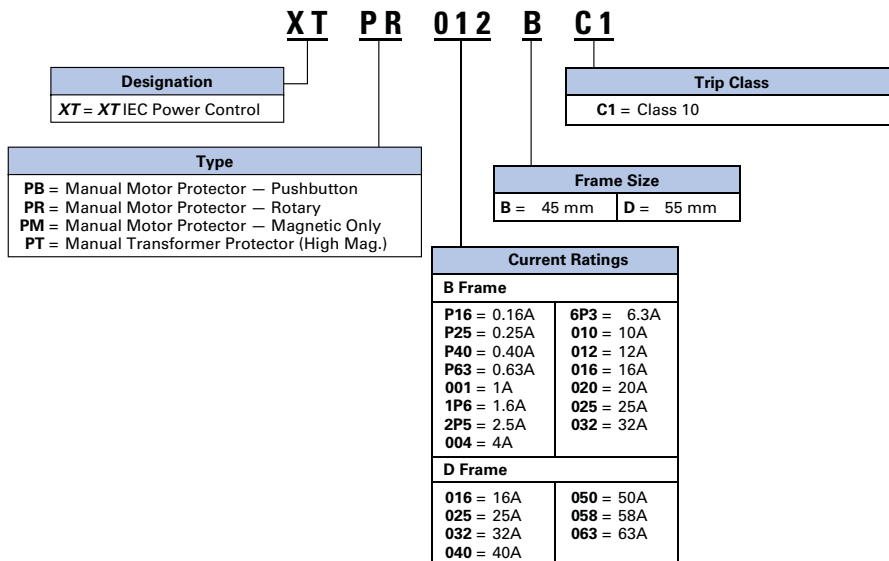
2

Eaton's new XT family of Manual Motor Protectors (MMPs) features a pushbutton or rotary ON/OFF manual disconnect, Class 10 adjustable bimetallic overload relay and fixed magnetic short circuit trip capability in one compact unit. Two frame sizes are available: Frame B (45 mm) for motors with FLA ratings up to 32A and Frame D (55 mm) covers motor FLA ratings up to 63A.

Eaton's
XT
IEC Contactors



Catalogue Number Selection



Included in the XT Line of IEC Power Control are XTPB pushbutton (up to 25A) and XTPR rotary (up to 63A) actuated Manual Motor Protectors, accessories, and enclosures.

Three-phase commoning links are available for easy installation. All MMPs are padlockable as standard.

The New XT Push button MMPs up to 25A are ideally suited for small machines.

XT Rotary Handle MMPs offer a solution for applications from 0.1 to 63A in two small frame sizes. The 63A XTPR has a width of just 55mm, the

smallest MMP in the industry! Padlock attachments and a rotary handle mechanism kit make it easy to mount the XTPR in any enclosure. MMP enclosures are available for both frame sizes.

Combination Motor Controllers (Integral starters) can be snapped together without the use of tools. The XTPR Rotary MMPs have been tested for Type 2 Coordination with contactors from 0.06kW to 34kW. When used together, the MMPs and contactors achieve Type 2 Coordination at 50kA (see page 2-29).

For magnetic only or transformer MMPs, contact Eaton.

Motor Control

Pushbutton Manual Motor Protectors

2



B-Frame

Pushbutton Manual Motor Protectors

Motor Protective Device with Thermal and Magnetic Trip

Rated Uninterrupted Current — I _u = I _e (Amps)	FLA Adjustment Range / Overload Release — I _r (Amps)	Maximum Motor Ratings ①					Catalogue Number	Price \$ ex. GST
		Maximum kW Rating AC-3 — P (kW)						
		3-Phase						
		220 – 240V	380 – 415V	440V	500V	660 – 690V		

Frame B

0.16	0.1 – 0.16	—	—	—	—	0.06	XTPBP16BC1	150.00
0.25	0.16 – 0.25	—	0.06	0.06	0.06	0.12	XTPBP25BC1	150.00
0.4	0.25 – 0.4	0.06	0.09	0.12	0.12	0.18	XTPBP40BC1	150.00
0.63	0.4 – 0.63	0.09	0.12	0.18	0.25	0.25	XTPBP63BC1	160.00
1	0.63 – 1	0.12	0.25	0.25	0.37	0.55	XTPB001BC1	167.00
1.6	1 – 1.6	0.25	0.55	0.55	0.75	1.1	XTPB1P6BC1	180.00
2.5	1.6 – 2.5	0.37	0.75	1.1	1.1	1.5	XTPB2P5BC1	180.00
4	2.5 – 4	0.75	1.5	1.5	2.2	3	XTPB004BC1	180.00
6.3	4 – 6.3	1.1	2.2	3	3	4	XTPB6P3BC1	210.00
10	6.3 – 10	2.2	4	4	4	7.5	XTPB010BC1	210.00
12	8 – 12	3	5.5	5.5	5.5	11	XTPB012BC1	210.00
16	10 – 16	4	7.5	9	9	12.5	XTPB016BC1	210.00
20	16 – 20	5.5	9	11	12.5	15	XTPB020BC1	218.00
25	20 – 25	5.5	12.5	12.5	15	22	XTPB025BC1	218.00

① Select Manual Motor Protectors by full load amperes. Maximum Motor Ratings (kW) are for reference only.

Dimensions : Frame B Pushbutton

W: 45mm

H: 93mm

D: 90mm

Motor Control

Rotary Manual Motor Protectors



B-Frame



D-Frame

XTPR Rotary Manual Motor Protectors

Motor Protective Device with Thermal and Magnetic Trip

Rated Uninterrupted Current — I _U = I _E (Amps)	FLA Adjustment Range / Overload Release — I _r (Amps)	Maximum Motor Ratings ①					Catalogue Number	Price \$ ex. GST
		Maximum kW Rating AC-3 — P (kW)						
		3-Phase						
		220 – 240V	380 – 415V	440V	500V	660 – 690V		

Frame B

0.16	0.1 – 0.16	—	—	—	—	0.06	XTPRP16BC1	172.00
0.25	0.16 – 0.25	—	0.06	0.06	0.06	0.12	XTPRP25BC1	172.00
0.4	0.25 – 0.4	0.06	0.09	0.12	0.12	0.18	XTPRP40BC1	172.00
0.63	0.4 – 0.63	0.09	0.12	0.18	0.25	0.25	XTPRP63BC1	182.00
1	0.63 – 1	0.12	0.25	0.25	0.37	0.55	XTPR001BC1	190.00
1.6	1 – 1.6	0.25	0.55	0.55	0.75	1.1	XTPR1P6BC1	204.00
2.5	1.6 – 2.5	0.37	0.75	1.1	1.1	1.5	XTPR2P5BC1	204.00
4	2.5 – 4	0.75	1.5	1.5	2.2	3	XTPR004BC1	204.00
6.3	4 – 6.3	1.1	2.2	3	3	4	XTPR6P3BC1	204.00
10	6.3 – 10	2.2	4	4	4	7.5	XTPR010BC1	235.00
12	8 – 12	3	5.5	5.5	5.5	11	XTPR012BC1	235.00
16	10 – 16	4	7.5	9	9	12.5	XTPR016BC1	235.00
20	16 – 20	5.5	9	11	12.5	15	XTPR020BC1	252.00
25	20 – 25	5.5	12.5	12.5	15	22	XTPR025BC1	295.00
32	25 – 32	7.5	15	15	22	30	XTPR032BC1	378.00

Frame D

16	10 – 16	4	7.5	9	9	12.5	XTPR016DC1	422.00
25	16 – 25	5.5	12.5	12.5	15	22	XTPR025DC1	434.00
32	25 – 32	7.5	15	17.5	22	22	XTPR032DC1	515.00
40	32 – 40	11	20	22	24	30	XTPR040DC1	591.00
50	40 – 50	14	25	30	30	45	XTPR050DC1	672.00
58	50 – 58	17	30	37	37	55	XTPR058DC1	689.00
63	55 – 63	18.5	34	37	45	55	XTPR063DC1	708.00

① Select Manual Motor Protectors by full load amperes. Maximum Motor Ratings (kW, hp) are for reference only.

Dimensions :
Frame B Rotary
Frame D Rotary

W: 45mm
W: 55mm

H: 93mm
H: 140mm

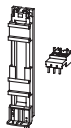
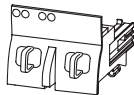
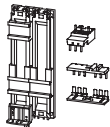
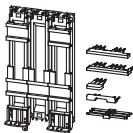
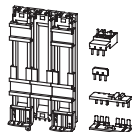
D: 94mm
D: 171mm

Motor Control

Combination Connection Kits

2

Combination Connection Kits

	For Use with...	Description	Catalogue Number	Price \$ ex. GST
Non-reversing Starters				
	XTPR...B + XTCE...B	Comprised of: ■ Mechanical connection element for XTPR...B and contactor ■ Main current wiring between XTPR...B and contactor in tool-less plug connection ■ Cable guidance Use contactor auxiliary switch XTCEXFAT_ Control cable guidance: max. 6 cables up to 2.5 mm ² external diameter or 4 cables up to 3.5 mm ² external diameter.	XTPAXTPCB	62.64
	XTPR...B + XTCE...C	Comprised of: ■ DIN rail adapter plate ■ Main current wiring between XTPR and contactor	XTPAXTPCC	68.04
	XTPR...D + XTCE...D		XTPAXTPCD	79.92
Reversing Starters				
	XTPR...B + XTCE...B01_	Comprised of: ■ Mechanical connection element for XTPR...B and contactor ■ Reversing starter main current wiring in tool-less plug connection ■ Control cables for electrical interlocking in tool-less plug connection: ■ Cable guidance Use contactor auxiliary switch XTCEXFAT_ Control cable guidance: max. 6 cables up to 2.5 mm ² external diameter or 4 cables up to 3.5 mm ² external diameter.	XTPAXTPCRB	125.28
	XTPR...B + XTCE...C	Comprised of: ■ DIN rail adapter plate ■ Reversing starter main current wiring	XTPAXTPCRC	136.08
Star-Delta Starter Sets				
	XTPR...B + XTCE...B	Comprised of: ■ DIN rail adapter plate ■ Main current wiring between XTPR...B and contactor ■ Electrical interlock between delta and star contactor ■ Use as contactor auxiliary switch XTCEXFAT_	XTPAXSDSB	133.92
	XTPR...B + XTCE...C	Comprised of: ■ DIN rail adapter plate ■ Main current wiring between XTPR...B and contactor	XTPAXSDSC	154.44

Motor Control

Manual Motor Protector Accessories



Side-Mount Auxiliary Contacts

Stock Code : S

Contact Configuration	Cat.No.	Price \$ ex. GST
1NO-1NC	XTPAXSA11	25.00
1NO-2NC	XTPAXSA12	39.50
2NO-1NC	XTPAXSA21	39.50

Can be fitted on the right side of manual motor protectors and can be combined with front mount aux contacts and trip indicating aux contacts.



Front-Mount Auxiliary Contacts

Stock Code : S

Contact Configuration	Cat.No.	Price \$ ex. GST
1NO-1NC	XTPAXFA11	23.90
1NO	XTPAXFA10	18.10



Side-Mount Trip Indicating Auxiliary Contacts

Stock Code : S

Contact Configuration	Cat.No.	Price \$ ex. GST
2 x 1NO	XTPAXSATR20	42.20
2 x 1NC	XTPAXSATR02	42.20

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



Shunt Trip

Stock Code : S

Voltage	Cat. No.	Price \$ ex. GST
240V AC	XTPAXSR240V50H	91.40
24V AC	XTPAXSR24V50H	91.40
24V DC	XTPAXSR240VDC	91.40
415V AC	XTPAXSR415V50H	91.40

Can be fitted on the left side of manual motor protectors. Cannot be combined with the Undervoltage Release



Undervoltage Release

Stock Code : S

Voltage	Cat. No.	Price \$ ex. GST
240V AC	XTPAXUVR240V50H	91.40
24V AC	XTPAXUVR24V50H	91.40
415V AC	XTPAXUVR415V50H	91.40

Can be fitted on the left side of manual motor protectors. Cannot be combined with the Shunt Trip. When combined with a circuit breaker, it can be used as Emergency-Stop device to IEC/EN 60204.

Motor Control

Manual Motor Protector Accessories



2

Three-Phase Commoning Links

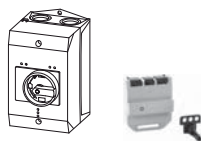
Stock Code : S

Number of MMPs	MMPs Only	Price \$ ex. GST	MMPs and Aux device on the right	Price \$ ex. GST	MMPs and 2 Aux devices on the right, or one UVR on the left	Price \$ ex. GST
FRAME B						
2	XTPAXCLKA2	28.94	XTPAXCLKB2	26.78	XTPAXCLKC2	34.12
3	XTPAXCLKA3	35.85	XTPAXCLKB3	33.37	-	
4	XTPAXCLKA4	40.93	XTPAXCLKB4	37.58	XTPAXCLKC4	40.93
5	XTPAXCLKA5	46.33	XTPAXCLKB5	42.11	-	
FRAME D						
2	XTPAXCLKA2D	59.72	XTPAXCLKB2D	64.04	XTPAXCLKC2D	74.62
3	XTPAXCLKA3D	74.62	XTPAXCLKB3D	83.16	-	
4	XTPAXCLKA4D	93.85	XTPAXCLKB4D	104.54	XTPAXCLKC4D	120.09



IP65 Rotary Handle Mechanism

Description	Cat. No	Price \$ ex. GST
Black	XTPAXRHM165B	131.43
Red	XTPAXRHM265RY	148.44



Enclosures and Padlock Attachments for Rotary MMPs

Description	Cat. No	Price \$ ex. GST
FRAME B		
Enclosure / Black Handle	XTPAXENC65B	79.92
Padlock Attachment	XTPAXPL1	49.68
FRAME D		
Enclosure / Black Handle	XTPAXENCSD65B	181.44
Padlock Attachment	XTPAXPL2	54.00



Sealing Facility for Rotary MMPs

Description	Cat. No	Price \$ ex. GST
To prevent tampering with the overload release and the test function	XTPAXSW	2.16



Incoming Terminal for Three-Phase Commoning Link

For use with	Cat. No	Price \$ ex. GST
B-Frame XTPR, XTPB	XTPAXIT	28.24

Motor Control

Type 2 Coordination Tables

SHORT-CIRCUIT COORDINATION

TYPE 2 - 400/415V Coordination Combinations to IEC60947-4-1 (KEMA certified)
Manual Motor Controllers / Starter Combinations

P [kW]	Approx I _e [A]	I _g [kA]	XT MMP Part Number	XT Contactor Part Number
FRAME B MMP				
0.06	0.21	50 (150)	XTPRP25BC1	XTCE007B10_
0.09	0.31	50 (150)	XTPRP40BC1	XTCE007B10_
0.12	0.41	50 (150)	XTPRP63BC1	XTCE007B10_
0.18	0.6	50 (150)	XTPRP63BC1	XTCE007B10_
0.25	0.8	50 (150)	XTPR001BC1	XTCE007B10_
0.37	1.1	50 (150)	XTPR1P6BC1	XTCE007B10_
0.55	1.5	50 (150)	XTPR1P6BC1	XTCE007B10_
0.75	1.9	50 (150)	XTPR2P5BC1	XTCE007B10_
1.1	2.6	50 (150)	XTPR004BC1	XTCE007B10_
1.5	3.6	50 (150)	XTPR004BC1	XTCE007B10_
2.2	5	50 (150)	XTPR6P3BC1	XTCE007B10_
3	6.6	50 (150)	XTPR010BC1	XTCE018C10_
4	8.5	50 (150)	XTPR010BC1	XTCE018C10_
5.5	11.3	50	XTPR012BC1	XTCE018C10_
7.5	16	50	XTPR016BC1	XTCE018C10_
11	21.7	50	XTPR025BC1	XTCE025C10_
15	29.3	50	XTPR032BC1	XTCE032C10_
FRAME D MMP				
5.5	11.3	50	XTPR016DC1	XTCE018C10_
7.5	16	50	XTPR016DC1	XTCE018C10_
11	21.7	50	XTPR025DC1	XTCE025C10_
15	29.3	50	XTPR032DC1	XTCE032C10_
18.5	36	50	XTPR040DC1	XTCE040D00_
22	41	50	XTPR050DC1	XTCE050D00_
30	55	50	XTPR058DC1	XTCE065D00_
34	63	50	XTPR063DC1	XTCE065D00_

1 Values in parentheses () are for Type 2 Coordination when combined with XTPAXCL current limiter

2 Underscore (_) indicates magnet coil suffix required. See page 2-7 for coil voltages

SHORT-CIRCUIT COORDINATION

TYPE 2 - 400/415V Coordination Combinations to IEC60947-4-1 (KEMA certified)
Non-Reversing Contactors with Magnetic Trip Motor Circuit Protectors (MCCB)

Motor size kW	I _e [A] Approx	Breaking Capacity I _q kA (RMS)	Instantaneous Circuit Breaker Part Number *	XT IEC Contactor Part Number	XT IEC Overload Relay Part Number
0.12	0.41	15	HMCPE003A0C	XTCE018C10_	XTOBP60CCI
0.18	0.60	15	HMPCE003A0C	XTCE018C10_	XTOB001CC1
0.25	0.80	15	HMPCE003A0C	XTCE018C10_	XTOB001CC1
0.37	1.1	15	HMPCE003A0C	XTCE018C10_	XTOB1P6CC1
0.55	1.5	15	HMPCE003A0C	XTCE018C10_	XTOB1P6CC1
0.75	1.9	15	HMPCE007C0C	XTCE018C10_	XTOB2P4CC1
1.1	2.6	15	HMCPE007C0C	XTCE018C10_	XTOB004CC1
1.5	3.6	15	HMCPE007C0C	XTCE018C10_	XTOB004CC1
2.2	5	15	HMCPE007C0C	XTCE018C10_	XTOB006CC1
3	6.6	15	HMCPE015E0C	XTCE018C10_	XTOB010CC1
4	8.5	15	HMCPE015E0C	XTCE018C10_	XTOB010CC1
5.5	11.3	15	HMCPE015E0C	XTCE018C10_	XTOB016CC1
7.5	16	15	HMCPE030H1C	XTCE018C10_	XTOB024CC1
11	21.7	15	HMCPE030H1C	XTCE025C10_	XTOB024CC1
15	29.3	15	HMCPE050K2C	XTCE032C10_	XTOB032CC1
18.5	36	15	HMCPE100R3C	XTCE040D00_	XTOB040DC1
22	41	15	HMCPE100R3C	XTCE050D00_	XTOB057DC1
30	55	15	HMCPE100R3C	XTCE065D00_	XTOB065DC1
37	68	50	HMCPJ250D5L	XTCE080F00_	XTOB070GC1
45	81	50	HMCPJ250F5L	XTCE095F00_	XTOB100GC1
55	99	50	HMCPJ250G5L	XTCE115G00_	XTOB125GC1
75	134	50	HMCPJ250G5L	XTCE150G00_	XTOB150GC1
90	161	50	HMCPJ250W5L	XTCE185L22_	XTOB220LC1
110	196	50	HMCPJ600N	XTCE300M22_	XTOT240C3S
132	231	50	HMCPJ600R	XTCE300M22_	XTOT290C3S
160	279	50	HMCPJ600X	XTCE300M22_	XTOT400C3S
200	349	50	HMCPJ600P	XTCE400M22_	XTOT400C3S

*Refer to page 1-20 for HMCP Motor Circuit

Motor Control

Type 2 Coordination Tables



SHORT-CIRCUIT COORDINATION

TYPE 2 - 400/415V Coordination Combinations to IEC60947-4-1 (KEMA certified)

Non-Reversing Contactors with Fuses (Generic - Gg/GL)

P [kW]	I _e [A] Approx	I _q [kA]	Fuse rating [A]	Contactor Catalogue Number ¹	Overload Relay Catalogue Number
0.06	0.21	100	2	XTCE007B10_	XTOBP24BC1
0.09	0.31	100	2	XTCE007B10_	XTOBP40BC1
0.12	0.41	100	2	XTCE007B10_	XTOBP60BC1
0.18	0.6	100	2	XTCE007B10_	XTOB001BC1
0.25	0.8	100	4	XTCE007B10_	XTOB001BC1
0.37	1.1	100	4	XTCE007B10_	XTOB1P6BC1
0.55	1.5	100	4	XTCE007B10_	XTOB1P6BC1
0.75	1.9	100	6	XTCE007B10_	XTOB2P4BC1
1.1	2.6	100	6	XTCE007B10_	XTOB004BC1
1.5	3.6	100	6	XTCE007B10_	XTOB004BC1
2.2	5.0	100	10	XTCE007B10_	XTOB006BC1
3	6.6	100	16	XTCE007B10_	XTOB010BC1
4	8.5	100	20	XTCE009B10_	XTOB010BC1
5.5	11.3	100	25	XTCE018C10_	XTOB016CC1
7.5	15.2	100	32	XTCE018C10_	XTOB016CC1
11	21.7	100	40	XTCE025C10_	XTOB024CC1
15	29.3	100	63	XTCE032C10_	XTOB032CC1
18.5	36	100	63	XTCE040D00_	XTOB040DC1
22	41	100	80	XTCE050D00_	XTOB057DC1
30	55	100	100	XTCE065D00_	XTOB065DC1
37	68	100	125	XTCE080F00_	XTOB070GC1
45	81	100	160	XTCE095F00_	XTOB100GC1
55	99	100	200	XTCE115G00_	XTOB125GC1
75	134	100	200	XTCE150G00_	XTOB150GC1
90	161	100	250	XTCE185L22_	XTOB220LC1
110	196	100	315	XTCE225L22_	XTOB220LC1
132	231	100	400	XTCE250L22_	XTOB250LC1

¹ Underscore (_) indicates magnet coil code required. See Page 2-7 for coil voltages
Refer to Section 3 for fuses

Motor Control

1000V Vacuum Contactors



Eaton Westinghouse V201 Vacuum Contactor

Eaton's Westinghouse V201 Vacuum Contactors are known for quality and proven performance. They are ideally suited for heavy-duty applications in harsh environments. These contactors are most commonly used for mining applications.

- Rated for up to 1500V
- Small physical size
- Long life
- Reduced maintenance
- No atmospheric contamination of the contacts
- No noise, no arc flash
- Derating is not required at higher voltages
- Mounting in any position



Vacuum Contactors

Description	Cat. No	Stock Code S
		Price \$ ex. GST
160A	V201 KRCJZ1	3277.00
320A	V201 KTCJZ1	3726.00
540A	V201 KVCJZ1	4471.00

- 110V AC Coil as standard
- Vacuum Contactor Amp Ratings are AC3.
- Vacuum switch tubes cannot be replaced.

Auxiliary Contacts

Description	Cat. No	Stock Code S
		Price \$ ex. GST
1NO/1NC	J-11	120.96
2NO	J-20	120.96
2NC	J-02	120.96

Mechanical Interlocks

Description	Cat. No	Stock Code S
		Price \$ ex. GST
For mechanically interlocking two 160A Vacuum Contactors	180C113G04	130.00
For mechanically interlocking two 320A Vacuum Contactors	180C113G16	130.00
For mechanically interlocking two 540A Vacuum Contactors	180C113G17	130.00

Motor Control

Air Break 1000V Contactors



2



Mechanical Interlocks Description	Poles	Coil Voltage	Cat. No	Price ex. GST
35A	3	110V	DPCK3035AW	2067.00
35A	3	240V	DPCK3035WW	2174.00
35A	5	110V	DPCK5035AW	3046.00
100A	3	110V	DPCK3100AW	2476.00
250A	3	110V	DPCK3250V	3777.00
250A	3	240V	DPCK3250W	3777.00

Accessories			Stock Code S
Description	Cat. No		Price \$ ex. GST
Auxiliary contact 1NC/1NO	J-11		120.00
Auxiliary contact 2NO	J-20		120.00
Auxiliary contact 2NC	J-02		120.00
Mechanical interlock for 35A contactor	180C113G09		301.00
Replacement contacts for 35A contactor (Kit of 3)*	180C180G02		718.00
Replacement contacts for 100A contactor (Kit of 3)	180C180G06		942.00

*For 5 pole 35A contactor, use 2 kits

The Smartest and Safest Motor Control in the industry



Eaton's IT. Electromechanical Motor Control Products

With a direct focus on speed, control system design, and customer profitability; Eaton is proud to offer Cutler-Hammer Intelligent Technologies (IT.) – a complete line of forwardthinking motor control devices including contactors, starters, overload relays, and accessories. These new products are available as open style components and in enclosed control and motor control centers. Eaton's newest Cutler-Hammer Electromechanical

Motor Control products are the most innovative in the world. These advanced components are There's more to IT!! small in size but deliver big features; including 24V DC control, communication capabilities, and expanded functionality.

24V DC Control

The Smartest and Safest Choice in Power Today Control with 24V DC is reliable, cost-efficient, globally accepted, and offers huge safety advantages over traditional AC control. Many products ranging from

sensors to PLCs to valve manifolds have already changed to 24V DC power. smart with communication capabilities, status indication, diagnostics, remote reset abilities, and selectable protective functions that simplify troubleshooting and maximize production time. Monitoring application parameters, such as thermal memory phase loss, current unbalance, and "time-to-reset," over a communication network enables proactive management of processes and applications.

EAT•N

Powering Business Worldwide

For further Information:
1300 332 866
www.eatonelectric.com.au

Motor Control

IT. IEC Contactors



DC-Operated Full Voltage Non-Reversing 3-Pole Open Type Contactors (A-F Frames)

- 24V DC Coil Control — safe, reliable global standard
- No seal in auxiliary contacts required — control wiring is not needed between the contactor and overload relay
- Unique Pulse Width Modulated (PWM) coil controller minimizes energy and coil power consumption
- Microprocessor-based control
- High immunity to ESD, harmonics — minimal Total Harmonic Distortion
- Built-in logic to provide either 2- or 3-wire control
- Easy field assembly of control wiring — plug and unplug lockable control connector
- DIN rail mounting, 6 – 100A (A – D Frames)
- Common accessories
- IP20 Finger Protection
- Low wattage coils and minimal heat dissipation
- 24V DC power supply required with contactors, see page 2-40



Max Amp. AC-3	AC-1	400/415V Rating kW	Cat. No	Stock Code	Price \$ Ex GST
Frame A (27 mm) - smallest contactor in the market.					
6	12	2.2	E111A06X3N	Q	59.40
9	16	4	E111A09X3N	Q	70.20
12	20	5.5	E111A12X3N	Q	81.00
Frame B (45 mm)					
18	25	9	E111B18X3N	Q	113.40
25	40	12.5	E111B25X3N	Q	151.20
32	50	15	E111B32X3N	Q	210.60
Frame C (54 mm)					
40	63	18.5	E111C40X3N	Q	264.60
50	85	22	E111C50X3N	Q	318.60
Frame D (76 mm)					
65	100	33	E111D65X3N	Q	351.00
85	115	45	E111D85X3N	Q	459.00
100	130	55	E111D10X3N	Q	567.00
Frame E (105 mm)					
125	200	63	E111E12X3N	Q	810.00
160	225	80	E111E16X3N	Q	1026.00
200	250	110	E111E20X3N	Q	1350.00
Frame F(140 mm)					
250	300	140	E111F25X3N	Q	1674.00
315	375	160	E111F31X3N	Q	2106.00
420	450	220	E111F42X3N	Q	2646.00

Note:

All contactors must use a power supply page 2-40

- 24V DC coil voltage.
- accessories available 2-40 and 2-41
- Integral solid-state auxiliary hold-in circuit.
- Control inputs (P, F) are rated 24V DC (3 – 5 mA).
- For reversing contactors, contact Eaton.

Motor Control

IT. IEC Starters



Full Voltage Non-reversing DC-Operated,

Open Type Starters (A – F Frames), with 3-Pole Solid-State Overload Protection

- 115V AC – 600V AC, 1/4 – 350 hp/3/4 – 250 kW, 50/60 Hz
- 24V DC Coil Control — safe, reliable global standard
- Phase loss and current unbalance protection, user selectable
- Unique Pulse Width Modulated (PWM) coil controller minimizes energy and coil power consumption
- Microprocessor-based control
- Motor temperature and power-up protection with thermal memory
- LED status indication — trip, trip class, motor thermal state, reset, overload state
- Lockable overload cover protects against unauthorized adjustment and reset functions
- No control wiring needed between contactor and overload relay — eliminates seal in auxiliary contacts
- Minimal heat — no full voltage coils
- Wide 3:2:1 current adjustment range
- High immunity to ESD, harmonics — minimal Total Harmonic Distortion
- DIN rail mounting, 6A – 100A (A – D Frames)
- Communication Interface with Starter Network Adapter Product (SNAP)
- 2- or 3-wire control
- 24V DC power supply required with contactors, see page 2-40

2

Max. Amp. AC-3	FLC	kW Rating 400V/415V	Cat No.	Stock Code	Price \$ Ex GST
Frame A (27 mm)					
6	.25 – .8	2.2	E101A06A3A	Q	199.80
	.59 – 1.9		E101A06B3A	Q	199.80
	1.4 – 4.4		E101A06C3A	Q	199.80
	2.8 – 9.0		E101A06D3A	Q	199.80
	3.8 – 12		E101A06E3A	Q	199.80
9	.25 – .8	4	E101A09A3A	Q	210.60
	.59 – 1.9		E101A09B3A	Q	210.60
	1.4 – 4.4		E101A09C3A	Q	210.60
	2.8 – 9.0		E101A09D3A	Q	210.60
	3.8 – 12		E101A09E3A	Q	210.60
12	.25 – .8	5.5	E101A12A3A	Q	221.40
	.59 – 1.9		E101A12B3A	Q	221.40
	1.4 – 4.4		E101A12C3A	Q	221.40
	2.8 – 9.0		E101A12D3A	Q	221.40
	3.8 – 12		E101A12E3A	Q	221.40
Frame B (45 mm)					
18	.25 – .8	9	E101B18A3A	Q	351.00
	.59 – 1.9		E101B18B3A	Q	351.00
	1.4 – 4.4		E101B18C3A	Q	351.00
25	.25 – .8	12.5	E101B25A3A	Q	378.00
	.59 – 1.9		E101B25B3A	Q	378.00
	1.4 – 4.4		E101B25C3A	Q	378.00
	2.8 – 9.0		E101B25D3A	Q	378.00
	6.3 – 20		E101B25G3A	Q	378.00
	10 – 32		E101B25J3A	Q	378.00
32	.25 – .8	15	E101B32A3A	Q	405.00
	.59 – 1.9		E101B32B3A	Q	405.00
	1.4 – 4.4		E101B32C3A	Q	405.0
	2.8 – 9.0		E101B32D3A	Q	405.00
	6.3 – 20		E101B32G3A	Q	405.00
	10 – 32		E101B32J3A	Q	405.00

For Accessories please refer to pages 2-40 and 2-41

- For reversing contactors, contact Eaton.

Motor Control

IT. IEC Starters



2

Max Amp. AC-3	400/415V FLC	kW Rating 400V/415V	Cat No.	Stock Code	Price \$ Ex GST
Frame C (54 mm)					
40	.25 – .8	22	E101C40A3A	Q	513.00
	.59 – 1.9		E101C40B3A	Q	513.00
	1.4 – 4.4		E101C40C3A	Q	513.00
	2.8 – 9.0		E101C40D3A	Q	513.00
	5.0 – 16		E101C40F3A	Q	513.00
	8.4 – 27		E101C40H3A	Q	513.00
50	16 – 50	25	E101C40L3A	Q	513.00
	.25 – .8		E101C50A3A	Q	567.00
	.59 – 1.9		E101C50B3A	Q	567.00
	1.4 – 4.4		E101C50C3A	Q	567.00
	2.8 – 9.0		E101C50D3A	Q	567.00
	5.0 – 16		E101C50F3A	Q	567.00
	8.4 – 27		E101C50H3A	Q	567.00
	16 – 50		E101C50L3A	Q	567.00
Frame D (76 mm)					
65	5.0 – 16	33	E101D65F3A	Q	642.60
	8.4 – 27		E101D65H3A	Q	642.60
	14 – 45		E101D65K3A	Q	642.60
	31 – 100		E101D65N3A	Q	642.60
85	5.0 – 16	45	E101D85F3A	Q	750.60
	8.4 – 27		E101D85H3A	Q	750.60
	14 – 45		E101D85K3A	Q	750.60
	31 – 100		E101D85N3A	Q	750.60
100	5.0 – 16	55	E101D10F3A	Q	858.60
	8.4 – 27		E101D10H3A	Q	858.60
	14 – 45		E101D10K3A	Q	858.60
	31 – 100		E101D10N3A	Q	858.60
Frame E (105 mm)					
125	14 – 45	63	E101E12K3A	Q	1290.60
	28 – 90		E101E12M3A	Q	1290.60
	42 – 135		E101E12P3A	Q	1290.60
	63 – 200		E101E12R3A	Q	1290.60
160	14 – 45	80	E101E16K3A	Q	1350.00
	28 – 90		E101E16M3A	Q	1506.60
	42 – 135		E101E16P3A	Q	1506.60
	63 – 200		E101E16R3A	Q	1506.60
200	14 – 45	110	E101E20K3A	Q	1830.60
	28 – 90		E101E20M3A	Q	1830.60
	42 – 135		E101E20P3A	Q	1830.60
	63 – 200		E101E20R3A	Q	1830.60
Frame F(140 mm)					
250	42 – 135	140	E101F25P3A	Q	2370.60
	84 – 270		E101F25S3A	Q	2370.60
	131 – 420		E101F25T3A	Q	2370.60
315	42 – 135	160	E101F31P3A	Q	2802.60
	84 – 270		E101F31S3A	Q	2802.60
	131 – 420		E101F31T3A	Q	2802.60
420	42 – 135	220	E101F42P3A	Q	3342.60
	84 – 270		E101F42S3A	Q	3342.60
	131 – 420		E101F42T3A	Q	3342.60

For accessories please refer to pages 2-40 and 2-41. For Reversing Contactors contact Eaton



S752 Intelligent Technologies (IT) Soft Starters

- Internal run bypass contactor reduces heat generated as compared to non-bypass starters, and minimises enclosure size required
- Solid-state overload protection (31-100% of full load current)
- 24VDC control module enhances personnel and equipment safety
- Easy to read LED displays device status and provides fault indication
- Variable ramp times and torque control settings provide unlimited starting configurations
- Soft start and soft stop reduces wear on belts, gears, chains, shafts and bearings
- Available in 3-wire in-line models and 6-wire inside-the-delta models
- 24V DC power supply required with soft starter (See Below)

2

3-wire In-line S752 models

FL Current Range	kW rating @ 415VAC	Cat No	Stock Code	Price \$ ex GST
0.25 - 0.80 A	0.25 kW	S752L01N3S	I	750.00
0.59 - 1.9 A	0.75 kW	S752L02N3S	I	750.00
1.4 - 4 A	2.0 kW	S752L04N3S	I	794.00
2.8 - 9 A	4.5 kW	S752L09N3S	S	794.00
5 - 16 A	7.5 kW	S752L16N3S	S	924.00
8.4 - 27 A	12.5 kW	S752L27N3S	S	994.00
16 - 50 A	25 kW	S752L50N3S	S	1093.00

6-wire Inside-the-delta S752 models

FL Current Range	kW rating @ 415VAC	Cat No	Stock Code	Price \$ ex GST
0.44 - 1.3	0.37 kW	S752L01N3DV06	I	750.00
1.1 - 3.2 A	1.1 kW	S752L02N3DV06	I	750.00
2.5 - 7.6 A	3.0 kW	S752L04N3DV06	I	794.00
4.9 - 15 A	7.5 kW	S752L09N3DV06	I	794.00
8.7 - 27 A	12.5 kW	S752L16N3DV06	I	924.00
15 - 46A	22 kW	S752L27N3DV06	I	994.00
28 - 86 A	45 kW	S752L50N3DV06	S	1093.00

For accessories please refer to pages 2-40 and 2-41.

Motor Control

IT. IEC Soft Starters



S801 Intelligent Technologies (IT) Soft Starters

- Built-in overload protection
- Adjustable ramp times
- Adjustable torque control
- Adjustable kick start control
- Programmable overload settings, 31-100% of rated current
- Easy to use control interface module
- Soft start and Soft stop control
- Built-in run bypass contactor
- Multiple trip class settings (5, 10, 20 and 30)
- Six SCR control
- Ideal for pump protection and control
- 24V DC power supply required with soft starter (See Below)

Max current (amps)		kW rating at 415V AC		Cat No	Stock Code	Price \$ ex GST
Normal duty	Severe duty	Normal duty*	Severe duty**			
37	22	18.5	11	S801N37P3S	I	POA
66	42	37	22	S801N66P3S	I	POA
105	65	60	37	S801R10P3S	I	POA
135	80	75	45	S801R13P3S	I	POA
180	115	100	63	S801T18P3S	I	POA
240	150	132	90	S801T24P3S	I	POA
304	192	185	110	S801T30P3S	I	POA
360	240	200	132	S801U36P3S	NEW I	POA
420	305	220	160	S801U42P3S	NEW I	POA
500	365	295	200	S801U50P3S	NEW I	POA
650	420	400	220	S801V65P3S	I	POA
720	480	425	280	S801V72P3S	I	POA
850	525	500	300	S801V85P3S	I	POA
1000	600	600	375	S801V10P3S	I	POA

*Normal duty is 3 starts per hour at ramp current 300% of full load amps

**Severe duty is 4 starts per hour at ramp current 450% of full load amps

Note: For 6-wire inside-the-delta soft starters, pls contact our sales office.

For accessories please refer to pages 2-40 and 2-41.

Motor Control

IT. IEC Soft Starters



S811 Intelligent Technologies (IT) Soft Starters

- Built-in overload protection
- Built-in run bypass contactor
- Adjustable ramp times
- Adjustable torque control
- Adjustable kick start control
- Programmable overload settings, 31-100% of rated current
- Digital Interface Module(DIM) to safely configure, commission, monitor and troubleshoot
- Soft start and Soft stop control
- Multiple trip class settings (5, 10, 20 and 30)
- Built-in comms capability for DeviceNet/Modbus/Ethernet/Profibus (thru' the DIM or using CH Studio software)
- Six SCR control
- Ideal for pump protection and control
- 24V DC power supply required with soft starter See page 2-40

2

Max current (amps) Normal Duty	Severe Duty	kW rating at 415V AC Normal Duty*	Severe Duty**	Cat. No.	Stock Code	Price \$ ex GST
37	22	18.5	11	S811N37P3S	I	POA
66	42	37	22	S811N66P3S	S	POA
105	65	60	37	S811R10P3S	S	POA
135	80	75	45	S811R13P3S	S	POA
180	115	100	63	S811T18P3S	S	POA
240	150	132	90	S811T24P3S	S	POA
304	192	185	110	S811T30P3S	S	POA
360	240	200	132	S811U36P3S NEW	I	POA
420	305	220	160	S811U42P3S NEW	I	POA
500	365	295	200	S811U50P3S NEW	I	POA
650	420	400	220	S811V65P3S	I	POA
720	480	425	280	S811V72P3S	S	POA
850	525	500	300	S811V85P3S	S	POA
1000	600	600	375	S811V10P3S	I	POA

Normal duty is 4 starts per hour at ramp current 300% of full load amps. Severe duty is 4 starts per hour at ramp current 450% of full load amps. Note: For 6-wire inside-the-delta soft starters, pls contact our sales office.

Accessories for S801 and S811 Soft

Product Description	Cat. No.	Stock Code	Price \$ ex GST
Lug Kits			
1 cable connection, up to 1 x 240mm dia(S8X1TXXX)	EML23	I	POA
2 cable connection, up to 2 x 240mm dia(S8X1TXXX)	EML24	S	POA
1 cable connection, up to 1 x 150mm dia(S8X1VXXX)	EML25	I	POA
2 cable connection, up to 2 x 150mm dia(S8X1VXXX)	EML26	I	POA
2 cable connection, up to 2 x 240mm dia(S8X1VXXX)	EML28	S	POA
4 cable connection, up to 4 x 240mm dia(S8X1VXXX)	EML30	I	POA
6 cable connection, up to 6 x 240mm dia(S8X1VXXX)	EML32*	I	POA
4 cable connection, up to 4 x 150mm dia(S8X1VXXX)	EML33	I	POA
Control Interface Module Panel Mounting Kits			
Kit with 1m Cable	EMA69B	I	POA
Kit with 2m Cable	EMA69C	S	POA
Control Wire Connectors			
12-Pin Connector for Control Wiring	EMA75L	I	POA

For voltages rated 690V to 7.5kV open panel/enclosed type, we have the MV 801 Series medium voltage soft starters. Please contact your nearest Eaton branch to discuss your application for the medium voltage starters .

For accessories please refer to pages 2-40 and 2-41.

Motor Control

IT. IEC Contactors and Starters Accessories



2

Power Supplies

Continuous Wattage	(Sealed) Amperes	Inrush (Peak) Wattage	Input Voltage VAC Amperes	Cat Number	Stock Code	Price \$ ex GST
10	0.4	20	0.8 240	PSS10E	I	120.00
10	0.4	20	0.8 415	PSS10F	I	147.00
25	1	165	6.5 240	PSS25E	S	150.00
25	1	165	6.5 415	PSS25F	S	174.00
55	2.3	250	10.4 240	PSS55B	S	340.00
55	2.3	250	10.4 415	PSS55C	S	433.00
DIN Rail power supply mounting kit				PSSDIN	S	23.10

Power Supplies Sizing Table for IT Contactors and Starters

Contactor/Starter Size Frame		Wattage	Sealed In Amps	Wattage	Inrush Amps	Duration (mS)
A	Contactor	1.3	.054	20	.83	30
A	Starter	2.0	.083	20	.83	30
B	Contactor	3.7	.15	80	3.3	50
B	Starter	3.2	.13	80	3.3	50
C	Contactor	4.2	.18	90	3.8	50
C	Starter	3.6	.15	90	3.8	50
D	Contactor/Starter	5.0	.21	130	5.4	65
E	Contactor/Starter	5.6	.23	140	5.8	85
F	Contactor	12.0	.50	200	8.3	250
F	Starter	13.0	.54	200	8.3	250

IT Auxiliary Contacts for Contactors, Starters (A-F Frames)and S752 Soft Starter

Contactor/Starter Size						Contact Type	Cat. No.	Stock Code	Price \$ ex GST
A-Frame 27 mm	B-Frame 45 mm	C-Frame 54 mm	D-Frame 76 mm	E-Frame 105 mm	F-Frame 140 mm				
1	3	3	3	3.00	~	1NO	EMA13	I	32.40
1	3	3	3	3.00	~	1NC	EMA14	I	32.40
~	2	2*	3	3.00	~	1NO-1NC	EMA15	S	43.20
~	2	2*	3	3.00	~	2NO	EMA16	S	43.20
~	2	2*	3	3.00	~	2NC	EMA17	I	43.20
1	2	3	3	3.00	3	Logic Level 1NO-1NC	EMA70	I	48.60



IT Mechanical Interlock

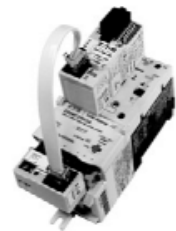
Frame Size*	Cat. No.	Stock Code	Price \$ ex GST
B – E	EMMB	I	173.34
F**	C321KM50	I	65.66

*The A-Frame 27 mm does not have a separate mechanical interlock due to its embedded design and board requirements.

**The F-Frame 140 mm uses the Freedom Series Mechanical Interlock.

Motor Control

IT. IEC Contactors and Starters Accessories



IT Connect

Description	Cat. No.	Stock Code	Price \$ ex GST
DeviceNet Starter Network Adapter Product For IT Starters and S752 Soft Starters	D77B-DSNAP-X1	I	335.00
QCPort Starter Network Adapter Product For IT Starters and S752 Soft Starters	D77B-QSNAP-X1	I	335.00
DeviceNet Adaptor - Concentrates all data from IT devices into a single DeviceNet node	D77D-DNA	S	POA
Modbus Adaptor - Concentrates all data from IT devices into a single Modbus node	D77D-EMA	I	POA
EtherNet/IP Adaptor - Concentrates all data from IT devices and I/O modules into a single EtherNet/IP node	D77D-EIP	I	POA
PROFIBUS Adaptor - Concentrates all IT devices and I/O modules into a single node. Supports Modbus as a slave device.	D77D-PNA	I	POA

*Includes Fanning Strips, Mechanical Interlock, Mounting Plate and hardware.

**Includes Fanning Strips (Bus Bar Set), Mechanical Interlock and hardware.

Motor Control

Soft Start Controllers

2



S701 Soft Start Controller

- Low cost option for soft starting small 3-phase 415V AC motors
- Control voltage range from 24 to 480V AC/DC
- Adjustable ramp times (0.5 - 10 seconds)
- Adjustable initial torque control (0 - 85%)
- Kick Start feature
- Soft Stop (0.5 - 10 seconds)
- Unlimited number of START/STOP operations per hour
- Designed to be used with manual motor protector or DOL starter

Max Current	Control voltage	3-ph motor rating	Cat No	Stock Code	Price \$ ex GST
3.5 A	24 - 480V DC	1.5 kW	S701E03N3S	I	416.01
15 A	24 - 480V DC	7.5 kW	S701E15N3S	I	495.72
25 A	24 - 480V DC	11 kW	S701E25N3S	I	745.41



S701 controller with auxiliary contact for external bypass

- Low cost option for soft starting small 3-phase 415V AC motors
- Control voltage range from 24 to 300V AC/DC
- Aux contact can be used to control external bypass, to reduce heating
- Adjustable ramp times (0.5 - 20 seconds)
- Adjustable initial torque control (0 - 85%)
- Kick Start feature (0 - 85% adjustment)
- Kick Start for 200 ms
- Soft Stop (0.5 - 20 seconds)
- Designed to be used with manual motor protector or DOL starter

Max Current	Control voltage	3-ph motor rating	Cat No	Stock Code	Price \$ ex GST
25 A	24 - 300V AC/DC	11 kW	S701E25N3BP	I	1034.31



S701 controller with DC injection brake

- Low cost option for soft starting small 3-phase 415V AC motors
- Control voltage range from 24 to 300V AC/DC
- Adjustable ramp times (0.5 - 20 seconds)
- Adjustable initial torque control (0 - 85%)
- Kick Start feature (0 - 85% adjustment)
- Kick Start for 200 ms
- Braking control adjustable from 0 - 50A DC
- Slow speed: 7.5% or 10% of nominal speed
- Designed to be used with manual motor protector or DOL starter

Max Current	Control voltage	3-ph motor rating	Cat No	Stock Code	Price \$ ex GST
25 A	24 - 300V AC/DC	11 kW	S701E25B3S	I	1502.28

Motor Control

Soft Start Controllers



TL Starting Torque Limiters

- Capable of soft starting 1-phase AC induction motors
- Adjustable ramp times (0.5 - 5 seconds)
- Adjustable initial torque control (0 - 85%)
- Unlimited number of START/STOP operations per hour
- IP20 finger protection
- Designed to be used with manual motor protector or DOL starter

2

Cat No	Max Current	Line voltage	Motor kW rating	Stock Code	Price \$ ex GST
1-Phase Motors					
TL480N15	15 A	208 - 240V AC	2.2 kW	I	236.62
TL480N25	25 A	208 - 240V AC	4 kW	I	297.32
3-Phase Motors					
TL480N15	15 A	208 - 480V AC	7.5 kW	I	236.62
TL480N25	25 A	208 - 480V AC	12.5 kW	I	297.32

S511 Semiconductor Reversing Contactor

- Rated operational voltage up to 480V AC
- Control voltage ranges of 5 - 24V DC and 24 - 240V AC/DC
- Unlimited number of START/STOP operations per hour
- IP20 finger protection
- Suitable for switching 3-phase motors forward and reverse
- AC-3 Current Rating of 10A
- AC-4 Current Rating of 8A
- Designed to be used with manual motor protector or DOL starter
- Extremely high switching rate and long life expectancy

Cat No	Max Current	Line voltage	3-ph Motor rating	Stock Code	Price \$ ex GST
S511E10N3D	10 A	5 - 24V DC	4 kW	I	462.24
S511E10N3S	10 A	24 - 240V AC/DC	4 kW	I	462.24

Motor Control

Variable Speed Drives

2



NFX9000 1-ph OEM drives

- Out-of-the-box: factory settings loaded for quick startup
- Serial communication port RS485
- Constant torque, 150% overload for 1 min rated
- 2 preset speeds, 2 adjustable linear or S-curves
- 3 jump frequencies, with adjustable width
- Stop modes: decel, coast or DC injection
- DIN rail mountable or panel-mount
- 4 programmable digital inputs, 1 programmable relay output, 1 analog input
- Earth fault, over & undervoltage & current, overtemperature protection
- Diagnostics: last 3 trips with cause
- Status LEDs & alphanumeric display, plus rotary potentiometer
- Inbuilt RFI filter supplied as standard

1-ph in, 3-ph out, 240V AC

Part Number	Description	Frame size	High overload P [kW]	High overload I(H)	Low overload P [kW]	Low overload I(L)	Stock Code	Price \$ Ex. GST
NFXF25A0-2	NFX9000 DRIVE 240V 0.185kW CT IP20	1	0.185	1.6	0.185	1.6	I	405.00
NFXF50A0-2	NFX9000 DRIVE 240V 0.37kW CT IP20	1	0.37	2.5	0.37	2.5	S	442.80
NFX001A0-2	NFX9000 DRIVE 240V 0.75kW CT IP20	1	0.75	4.2	0.75	4.2	S	486.00



MVX9000 1ph/3-ph OEM drives

- Sensorless vector drive with auto-tuning, built-in PID
- Serial communication port RS485
- Constant torque, 150% overload for 1 min rated
- 7 preset speeds, 2 adjustable linear or S-curves
- 3 jump frequencies, with adjustable width
- Stop modes: decel, coast or DC injection
- Auto Restart: 4 selectable retry restart modes
- 6 programmable digital inputs, 1 digital & 1 relay output, 2 analog inputs
- Earth fault, over & undervoltage & current, overtemperature protection
- Diagnostics: last 3 trips with cause
- Status LEDs & alphanumeric display, plus rotary potentiometer

1-ph in, 3-ph out, 240V AC

Part Number	Description	Frame size	High overload P [kW]	High overload I(H)	Low overload P [kW]	Low overload I(L)	Stock Code	Price \$ Ex. GST
MVXF50A0-2	MVX9000 DRIVE 240V 0.37kW CT IP20	1	0.37	2.5	0.37	2.5	I	567.00
MVX001A0-2	MVX9000 DRIVE 240V 0.75kW CT IP20	1	0.75	5	0.75	5	I	621.00
MVX002A0-2	MVX9000 DRIVE 240V 1.5kW CT IP20	1	1.5	7	1.5	7	S	702.00
MVX003A0-2	MVX9000 DRIVE 240V 2.2kW CT IP20	2	2.2	10	2.2	10	S	966.60

Motor Control

Variable Speed Drives

3-ph in, 3-ph out, 415V AC

Part Number	Description	Frame size	High overload P [kW]	High overload I (H)	Low overload P [kW]	Low overload I (L)	Stock Code	Price \$ Ex. GST
MVX001A0-4	MVX9000 DRIVE 415V 0.75kW CT IP20	1	0.75	3	0.75	3	S	729.00
MVX002A0-4	MVX9000 DRIVE 415V 1.5kW CT IP20	1	1.5	4	1.5	4	S	858.60
MVX003A0-4	MVX9000 DRIVE 415V 2.2kW CT IP20	1	2.2	5	2.2	5	S	999.00
MVX005A0-4	MVX9000 DRIVE 415V 3.7kW CT IP20	2	3.7	8.2	3.7	8.2	S	1,269.00
MVX007A0-4	MVX9000 DRIVE 415V 5.5kW CT IP20	2	5.5	13	5.5	13	S	1,863.00
MVX010A0-4	MVX9000 DRIVE 415V 7.5kW CT IP20	2	7.5	18	7.5	18	S	2,106.00

Options & accessories

Part Number	Description	Stock Code	Price \$ Ex. GST
MVXCOPY	MVX9000 COPY/PASTE KEYPAD	S	189.00
MVXKPD	MVX9000 STANDARD KEYPAD	I	189.00
MVXRM	MVX9000 KEYPAD REMOTE MOUNT KIT	S	54.00
MVXEIO	MVX9000 EXTENSION I/O	I	102.60
MVXDR	MVX9000 DIN RAIL MOUNT KIT	S	21.60
MVXDN	MVX9000 DEVICENET COMMS MODULE	I	405.00
MVXENCS	MVX9000 IP21 ENCLOSURE FR1	I	415.80
MVXENCL	MVX9000 IP21 ENCLOSURE FR2	I	426.60

Braking Resistors & Braking Units - 230V Series

Part Number	App. Motor KW	Resistor QTY.	Resistance & Wattage	Braking Torque	Full Load	Stock Code	Price \$ Ex. GST
K13-000034-0821	0.37	1	80W 200 ohm	220%	.216	I	POA
K13-000034-0821	0.75	1	80W 200 ohm	125%	.427	I	POA
K13-000034-0824	1.5	1	300W 20 ohm	125%	.849	I	POA
K13-000034-0824	2.2	1	300W 70 ohm	125%	1.262	I	POA
K13-000034-0825	3.7	1	400W 40 ohm	125%	2.080	I	POA
K13-000034-0826	5.5	2 in parallel	500W 30 ohm	125%	3.111	I	POA

Braking Resistors & Braking Units - 480V Series

Part Number	App. Motor KW	Resistor QTY.	Resistance & Wattage	Braking Torque	Full Load	Stock Code	Price \$ Ex. GST
K13-000034-0841	0.75	1	80W 750 ohm	125%	.427	I	POA
K13-000034-0843	1.5	1	300W 250 ohm	125%	.849	I	POA
K13-000034-0843	2.2	1	300W 250 ohm	125%	1.262	I	POA
K13-000034-0844	3.7	1	400W 150 ohm	125%	2.080	I	POA
K13-000034-0845	5.5	2 in parallel	500W 100 ohm	125%	3.111	I	POA
K13-000034-0846	7.5	3 in parallel	1000W 75 ohm	125%	4.148	I	POA

EMI Filters

Description	Part Number	Stock Code	Price \$ Ex. GST
MVX9000 EMI FILTER 1PH 240V 0.37KW	20DRT1W3S	S	175.00
MVX9000 EMI FILTER 1PH 240V 0.75KW	20DRT1W3S	S	175.00
MVX9000 EMI FILTER 1PH 240V 1.5KW	20DRT1W3S	S	175.00
MVX9000 EMI FILTER 1PH 240V 2.2KW	32DRT1W3C	S	195.00
MVX9000 EMI FILTER 3PH 415V 0.75KW	11TDT1W4S	S	185.00
MVX9000 EMI FILTER 3PH 415V 1.5KW	11TDT1W4S	S	185.00
MVX9000 EMI FILTER 3PH 415V 2.2KW	11TDT1W4S	S	185.00
MVX9000 EMI FILTER 3PH 415V 3.7KW	17TDT1W44	S	275.00
MVX9000 EMI FILTER 3PH 415V 5.5KW	17TDT1W44	S	275.00
MVX9000 EMI FILTER 3PH 415V 7.5KW	26TDT1W4B4	S	295.00

Motor Control

Variable Speed Drives



GVX9000 3-ph industrial drives

- Sensorless vector drive with auto-tuning, built-in PID
- Serial communication port RS485
- High overload Constant torque & Low overload Variable torque ratings
- 7 preset speeds, 2 adjustable linear or S-curves
- 3 jump frequencies, with adjustable width
- Stop modes: decel, coast or DC injection
- Auto Restart: 4 selectable retry restart modes
- 10 digital inputs, 2 digital & 2 relay outputs, 3 analog inputs & 1 analog output
- Earth fault, over & undervoltage & current, overtemperature protection
- Diagnostics: last 3 trips with cause
- Status LEDs & Plain english text display, copy/paste keypad

3-ph in, 3-ph out, 415V AC

Part Number	Description	Frame size	High overload P [kW]	High overload I (H)	Low overload P [kW]	Low overload I (L)	Stock Code	Price \$ Exc. GST
GVX001A1-4	GVX9000 DRIVE 415V 0.75kW VT IP20	1	0.75	2.7	0.75	2.2	I	966.60
GVX002A1-4	GVX9000 DRIVE 415V 1.5kW VT IP20	1	1.5	4.2	1.5	4.2	I	1074.60
GVX003A1-4	GVX9000 DRIVE 415V 2.2kW VT IP20	1	2.2	5.5	2.2	5.5	I	1,290.60
GVX005A1-4	GVX9000 DRIVE 415V 3.7kW VT IP20	1	3.7	8.5	3.7	8.5	I	1,506.60
GVX007A1-4	GVX9000 DRIVE 415V 7.5kW VT IP20	2	5.5	13	7.5	18	S	2,046.60
GVX010A1-4	GVX9000 DRIVE 415V 11kW VT IP20	2	7.5	18	11	24	S	2,586.60
GVX015A1-4	GVX9000 DRIVE 415V 15kW VT IP20	2	11	24	15	32	S	3,234.60
GVX020A1-4	GVX9000 DRIVE 415V 18.5kW VT IP20	3	15	32	18.5	38	S	3,990.60
GVX025A1-4	GVX9000 DRIVE 415V 22kW VT IP20	3	18.5	38	22	45	S	4,746.60
GVX030A1-4	GVX9000 DRIVE 415V 30kW VT IP20	3	22	45	30	60	S	5,394.60
GVX040A1-4	GVX9000 DRIVE 415V 37kW VT IP20	4	30	60	37	73	S	6,582.60
GVX050A1-4	GVX9000 DRIVE 415V 45kW VT IP20	4	37	73	45	91	S	7,662.60
GVX060A1-4	GVX9000 DRIVE 415V 55kW VT IP20	4	45	91	55	110	S	8,742.60
GVX075A1-4	GVX9000 DRIVE 415V 75kW VT IP20	5	55	110	75	150	I	9,822.60
GVX100A1-4	GVX9000 DRIVE 415V 90kW VT IP20	5	75	150	90	180	I	11,982.60

Options & accessories

Part Number	Description	Stock Code	Price \$ Exc. GST
GVXKPD	GVX9000 COPY/PASTE KEYPAD	S	270.00
GVXRM	GVX9000 KEYPAD REMOTE MOUNT KIT	S	32.40
GVXPG	GVX9000 ENCODER FEEDBACK CARD	S	162.00
GVXDN	GVX9000 DEVICENET COMMS CARD	I	405.00
GVXPB	GVX9000 PROFIBUS COMMS CARD	I	702.00
GVXLON	GVX9000 LONWORKS COMMS CARD	I	642.60
GBM2022	GVX9000 240V BRAKING UNIT	I	858.60
GBM4045	GVX9000 415V BRAKING UNIT	I	1074.60
GVXEMI-4A	GVX EMI FILTER 415V 9A 0.75-3.7KW	S	642.60
GVXEMI-4B	GVX EMI FILTER 415V 16A 5.5-7.5KW	S	858.60
GVXEMI-4C	GVX EMI FILTER 415V 32A 11-15KW	S	1182.60
GVXEMI-4D	GVX EMI FILTER 415V 50A 18.5-22KW	S	1506.60
GVXEMI-4E	GVX EMI FILTER 415V 60A 30KW	S	2046.60
GVXEMI-4F	GVX EMI FILTER 415V 80A 37-45KW	S	2802.60
GVXEMI-4G	GVX EMI FILTER 415V 112A 55KW	S	3234.60
GVXEMI-4H	GVX EMI FILTER 415V 136A 75KW	S	3450.60
GVXEMI-4I	GVX EMI FILTER 415V 160A 90KW	S	3995.00

Motor Control

Mill Brake Selection Charts



GH505 Series Brake Selection Chart

All coils are based on 230v D.C. Line Supply

Brake Size	Brake Part No.	Coil Part No.	1/2 Hour Crane Rating		Torque Nm	1 Hour Crane Rating		Torque Nm	Price \$ ex GST
			Ampere Range Min	Max		Ampere Range Min	Max		
8" (203mm)	GH505AAA1107N	9-872-3	22	31	136	19	25	88	10,684.80
	GH505AAA1109N	9-872-5	37	49		31	41		10,684.80
10" (254mm)	GH505BAA1204N	9-871-4	45	60	272	37	54	177	12,224.10
	GH505BAA1205N	9-871-5	58	77		49	70		12,224.10
13" (330mm)	GH505CAA1301N	9-883-7	84	135	746	66	107	495	15,603.05
	GH505CAA1302N	9-883-10	92	149		72	117		15,603.05
	GH505CAA1303N	9-883-1	123	205		96	162		15,603.05
	GH505CAA1305N	9-883-6	193	336		150	264		15,603.05
16" (406mm)	GH505DAA1402N	9-884-1	162	268	1356	131	213	881	21,038.85
	GH505DAA1403N	9-884-6	258	432		210	342		20,163.15
19" (762mm)	GH505EAA1505N	9-885-16	260	375	2710	214	302	1763	26,128.20
	GH505EAA1507N	9-885-27	375	550		308	448		26,128.20
23" (584mm)	GH505FAA1603N	9-886-4	600	804	5424	479	656	3526	32,329.50
	GH505FAA1605N	9-886-8	866	1200		693	980		32,329.50

Note: Prices exclude brake drum.
Include Coil and shoes

GH505 Shunt Brake Selection Chart

All coils are based on 230v D.C. Line Supply

Brake Size	Brake Part No.	Duty	Coil Part No.	Torque Nm	Price \$ ex GST
8" (203mm)	GH505AAA2160N	Int.	9-872-18	136	11,130.00
	GH505AAA2162N	Cont.	9-872-11	102	11,114.25
10" (254mm)	GH505BAA2260N	Int.	9-871-7	271	12,089.70
	GH505BAA2262N	Cont.	9-871-8	203	12,448.80
13" (330mm)	GH505CAA2360N	Int.	9-875-7	746	15,449.70
	GH505CAA2362N	Cont.	9-875-12	542	15,426.60
16" (406mm)	GH505DAA2460N	Int.	9-890-1	1356	20,710.20
	GH505DAA2462N	Cont.	9-890-2	1017	20,695.50
19" (762mm)	GH505EAA2560N	Int.	9-888-3	2712	25,366.95
	GH505EAA2562N	Cont.	9-888-1	2034	25,366.95
23" (584mm)	GH505FAA2660N	Int.	9-889-1	5423	31,127.25
	GH505FAA2662N	Cont.	9-889-5	4067	31,112.55

Note: Prices exclude brake drum. Prices include coil series resistor and shoes.

Total drive solutions for every industry and application.



The 9000X Family of Drives includes SVX9000, SLX9000, SPX9000 & LCX9000 drives. With the 9000X series sensor-less vector control, Eaton's expanded Cutler-Hammer® drive offering now covers a complete line of PWM adjustable frequency (speed) drives in ratings from 0.75 to 1400 kW constant torque; 1.1 to 1600 kW variable torque at 415V AC.

The liquid-cooled LCX9000 drive is our most space-saving AC drive, well suited for locations where air-cooling would be difficult or expensive, or where the installation space is at a premium.

As no air channels are required, the LCX9000 drives are extremely compact and suitable for ships and in the offshore industry, in mines or in heavy industry.

Equipped with high processing power, the SPX9000 can use information from an encoder or a resolver in order to provide very precise motor control. Typical applications requiring high performance are: master-slave drives, positioning applications, winder tension control and synchronization. The SPX9000 supports fast drive-to-drive communication.



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