

Price Adjustment

Effective 1st of July 2008 Add 8%
to all list prices with the
exception of Kyoritsu products

NOTE: All Prices Exclude GST

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Motor Control

XT IEC Motor control



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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.

DC coils are controlled by a microprocessor, which allows for direct switching from PLC outputs and reduces sealing power consumption.

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 2-26 and 2-27 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

2

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						AC Coil	DC Coil
		240V	415V	690V					
6.6	20	1.5	3	3	3	1NO	XTMC6A10_	71.60	137.00
6.6	20	1.5	3	3	3	1NC	XTMC6A01_	71.60	137.00
8.8	20	2.2	4	4	3	1NO	XTMC9A10_	77.40	149.40
8.8	20	2.2	4	4	3	1NC	XTMC9A01_	77.40	149.40
8.8	20	2.2	4	4	4	—	XTMF9A00_	82.00	159.50

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 Load Current	Contact Configuration	Part Number	Stock Code	Price ex. GST
0.1-0.16A	1NO-1NC	XTOMP16AC1	S	86.30
0.16-0.24A	1NO-1NC	XTOMP24AC1	S	86.30
0.24-0.4A	1NO-1NC	XTOMP40AC1	S	86.30
0.4-0.6A	1NO-1NC	XTOMP60AC1	S	86.30
0.6-1A	1NO-1NC	XTOM001AC1	S	86.30
1-1.6A	1NO-1NC	XTOM1P6AC1	S	86.30
1.6-2.4A	1NO-1NC	XTOM2P4AC1	S	86.30
2.4-4A	1NO-1NC	XTOM004AC1	S	86.30
4-6A	1NO-1NC	XTOM006AC1	S	86.30
6-9A	1NO-1NC	XTOM009AC1	S	86.30
9-12A	1NO-1NC	XTOM012AC1	S	86.30

Auxiliary Contacts for Mini Contactors, Front (top) Mounted

Contact Configuration	Poles	Part Number	Stock Code	Price \$ ex GST
1NO/1NC	2	XTMCXFA11	S	20.60
2NO	2	XTMCXFA20	S	20.60
2NC	2	XTMCXFA02	S	20.60
2NO2NC	4	XTMCXFA22	S	34.95
1NO/3NC	4	XTMCXFA13	S	34.95
3NO1NC	4	XTMCXFA31	S	34.95
4NO	4	XTMCXFA40	S	34.95
4NC	4	XTMCXFA04	S	34.95
1ECNO/1LONC	2	XTMCXFAL11	S	48.80
2ECNO/2LONC	2	XTMCXFAL22	S	65.40

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



Mechanical Interlock

Description	Catalogue Number	Price \$ ex. GST
Mechanical Interlock	XTMCXML	14.70

Note:

■ For two contactors with AC or DC operated magnet system 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	29.20

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	35.90



Other Accessories

Description	Catalogue Number	Price \$ ex. GST
Connector For mechanically arranging contactors in combinations.	XTMCXCN	0.40
Shroud IP40 Sealable Shroud, snap fit	XTMCXCN	5.70

Note:

■ 0 mm distance between contactors with connector.

Motor Control

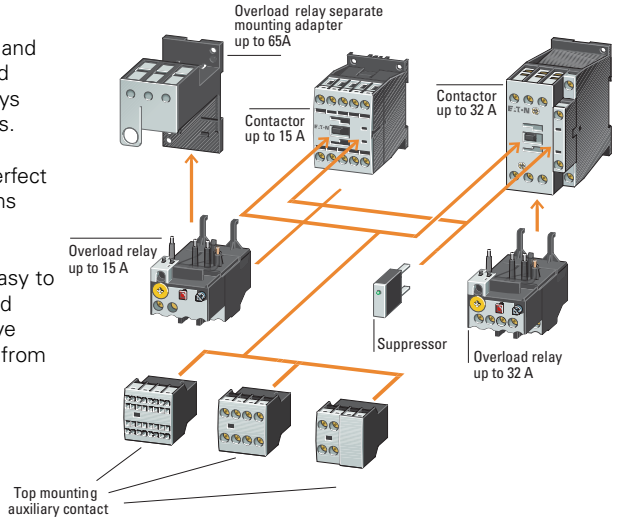
XT IEC Contactors



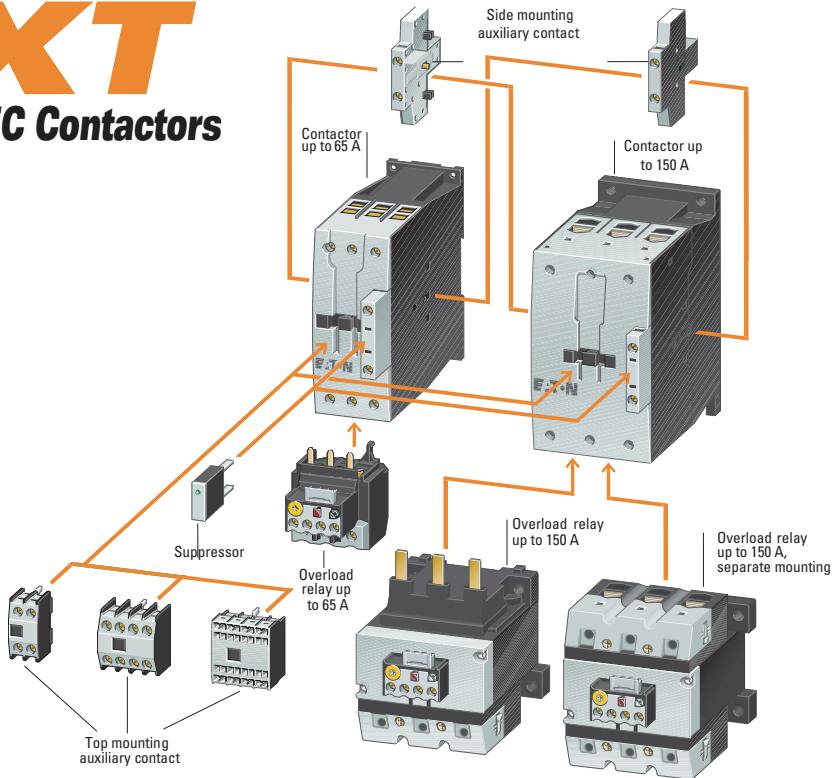
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Eaton's new line of XT Contactors and Starters includes non-reversing and reversing contactors, overload relays and a variety of related accessories. Because XT meets IEC, UL, CSA, CCC and CE standards, it is the perfect product solution for IEC applications 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

XT IEC Contactors & Starters — Catalogue Numbering System

2

XT CE 025 C 10 F

1NO
1NC

Designation

XT = XT Line of IEC Control

Type

CE = 3-Pole IEC Contactor
 CS = 3-Pole S Series IEC Contactor
 CF = 4-Pole IEC Contactor
 CC = IEC Capacitor 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
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① Frame L – M only.

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_	82.10	185.00
7	20	3	4	3.5	1NC	XTCE007B01_		
9	20	4	5.5	4.5	1NO	XTCE009B10_	94.80	220.00
9	20	4	5.5	4.5	1NC	XTCE009B01_		
12	20	5.5	7	6.5	1NO	XTCE012B10_	116.00	244.00
12	20	5.5	7	6.5	1NC	XTCE012B01_		
15.5	20	7.5	8	7	1NO	XTCE015B10_	142.00	294.00
15.5	20	7.5	8	7	1NC	XTCE015B01_		

Frame B - 4 Pole*

7	20	3	4	3.5	1NO	XTCE007B10_	135.00	264.00
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* Coils are not interchangeable on B frame contactors

Frame C

18	35	7.5	10	11	1NO	XTCE018C10_	142.00	294.00
18	35	7.5	10	11	1NC	XTCE018C01_		
25	40	11	14.5	14	1NO	XTCE025C10_	209.00	355.00
25	40	11	14.5	14	1NC	XTCE025C01_		
32	40	15	18	17	1NO	XTCE032C10_	280.00	429.00
32	40	15	18	17	1NC	XTCE032C01_		

Frame D

40	50	18.5	24	23	—	XTCE040D00_	328.00	554.00
50	65	22	30	30	—	XTCE050D00_	345.00	620.00
65	80	30	39	35	—	XTCE065D00_	512.00	830.00

Frame F

80	90	37	48	63	—	XTCE080F00_	584.00	864.00
95	110	45	57	75	—	XTCE095F00_	775.00	1031.00

Frame G

115	130	55	70	90	—	XTCE115G00_	1013.00	1181.00
150	160	75	91	96	—	XTCE150G00_	1167.00	1538.00

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

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

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_	1492.00
225	315	110	132	215	108	2NO-2NC	XTCS225L22_	2060.00
250	330	132	148	240	108	2NO-2NC	XTCS250L22_	2540.00

Frame L — Electronic Coil

185	275	90	110	175	108	2NO-2NC	XTCE185L22_	1680.00
225	315	110	132	215	108	2NO-2NC	XTCE225L22_	2260.00
250	350	132	148	240	108	2NO-2NC	XTCE250L22_	2810.00

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

300	400	160	180	286	132	2NO-2NC	XTCS300M22_	3190.00
400	500	200	240	344	132	2NO-2NC	XTCS400M22_	3420.00
500	700	250	300	344	132	2NO-2NC	XTCS500M22_	5294.00

Frame M — Electronic Coil

300	400	160	180	286	132	2NO-2NC	XTCE300M22_	3390.00
400	500	200	240	344	132	2NO-2NC	XTCE400M22_	3610.00
500	700	250	300	344	132	2NO-2NC	XTCE500M22_	5422.00

Frame N — Electronic Coil (Vacuum Contactor)

580	800	315	348	560	600	2NO-2NC	XTCE580N22_	6818.00
650	850	355	390	630	600	2NO-2NC	XTCE650N22_	7810.00
750	900	400	455	720	800	2NO-2NC	XTCE750N22_	8698.00
820	1000	450	500	750	800	2NO-2NC	XTCE820N22_	11264.00
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
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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.



Frame L



Frame M



Frame N



Frame P



Frame R

Auxiliary Contacts					
	AC-1 in Amps	Poles	Contact Configuration	Catalogue Number	Price \$ ex. GST

Frame B – C — Front (top) Mount

	16	2	2NO	XTCEXFAC20	26.88
	16	2	1NO-1NC	XTCEXFAC11	26.88
	16	2	2NC	XTCEXFAC02	26.88
	16	2	1NO _E -1NC _L	XTCEXFALC11 ^②	26.88
	16	4	4NO	XTCEXFAC40	47.67
	16	4	3NO-1NC	XTCEXFAC31	47.67
	16	4	2NO-2NC	XTCEXFAC22	47.67
	16	4	1NO-3NC	XTCEXFAC13	47.67
	16	4	4NC	XTCEXFAC04	47.67

Frame C — Side Mount

	10	2	1NO-1NC	XTCEXSCC11 ^④	37.60
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Frame D – G — Front (top) Mount

	16	2	2NO	XTCEXFBG20	26.88
	16	2	1NO-1NC	XTCEXFBG11	26.88
	16	2	2NC	XTCEXFBG02	26.88
	16	4	4NO-0NC	XTCEXFBG40	47.67
	16	4	3NO-1NC	XTCEXFBG31	47.67
	16	4	2NO-2NC	XTCEXFBG22	47.67
	16	4	1NO-3NC	XTCEXFBG13	47.67
	16	4	4NC	XTCEXFBG04	47.67
	16	4	1NO _E -1NC _L	XTCEXFBG22 ^②	47.67







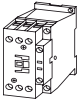



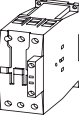



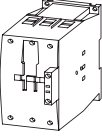



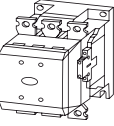

Frame D – R — Side Mount

	10	2	1NO-1NC	XTCEXSBN11	43.05
	10	2	1NO _E -1NC _L	XTCEXSBLN11 ^②	43.05

^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.

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
				–	–		–

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	186.00
100 – 130V AC			XTCEXTEEC11A	186.00
200 – 240V AC			XTCEXTEEC11B	186.00
Off-Delayed				
24V AC/DC	1NO/1NC	0.05 s – 1 s	XTCEXTED1C11T	186.00
100 – 130V AC			XTCEXTED1C11A	186.00
200 – 230V AC			XTCEXTED1C11B	186.00
24V AC/DC	1NO/1NC	0.5 – 10 s	XTCEXTED10C11T	186.00
100 – 130V AC			XTCEXTED10C11A	186.00
200 – 240V AC			XTCEXTED10C11B	186.00
24V AC/DC	1NO/1NC	5 s – 100 s	XTCEXTED100C11T	202.00
100 – 130V AC			XTCEXTED100C11A	202.00
200 – 240V AC			XTCEXTED100C11B	202.00
Star-Delta				
24V AC/DC	2NO	1 s – 30 s	XTCEXTEYC20T	194.00
100 – 130V AC			XTCEXTEYC20A	194.00
200 – 240V AC			XTCEXTEYC20B	194.00

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	XTR6A60S51B	235.00

Actuating Voltage
 24 – 240 50/60 Hz
 24 – 240V DC

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	92.70
	XTCE018C – XTCE032C	XTCEXSDLC	92.70
	XTCE040D – XTCE065D	XTCEXSDL	142.70
	XTCE080F – XTCE095F	XTCEXSDLF	420.00
	XTCE115G – XTCE150G	XTCEXSDLG	518.00
	XTCE185L – XTCE225L	XTCEXSDLL225	518.00
	XTCE250L	XTCEXSDLL250	518.00
	XTCE300M – XTCE400M	XTCEXSDLM400	518.00

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	85.00
	XTCE018C – XTCE032C	XTCEXRLC	85.00
	XTCE040D – XTCE065D	XTCEXRLD	95.00
	XTCE080F – XTCE095F	XTCEXRLF	95.00
	XTCE115G – XTCE150G	XTCEXR LG	418.00
	XTCE185L – XTCE250L	XTCEXRLL	924.00
	XTCE300M – XTCE400M	XTCEXR LM400	1075.00

Reversing Contactor Components

Qty	Frame	B	C	D	F	G
2	Contactor	XTCE...B01_	XTCE...B01_	XTCE...D00_	XTCE...F00_	XTCE...G00_
2	Auxiliary Contact	XTCEXFAC20	XTCEXFAC20	XTCEXFBG11	XTCEXFBG11	XTCEXFBG11
1	Reversing Link Kit	XTCEXRLB	XTCEXRLC	XTCEXR LD	XTCEXR LG	XTCEXR LG

Connector

	For Use with Frames...	Catalogue Number	Price \$ ex. GST
	B – C	XTCEXCNC	0.55
	D – G	XTCEXCNG	0.75

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

Mechanical Interlock

	For Use with Frame...	Catalogue Number	Price \$ ex. GST
	B	XTCEXMLB	13.90
	C	XTCEXMLC	14.15
	D	XTCEXMLD	29.20
	F – G	XTCEXMLG ③	29.20
	L – M	XTCEXMLM	76.40
	N	XTCEXMLN ③	726.00

■ 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.

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

Motor Control

XT IEC Contactor Accessories



Add-On Fourth Pole



Add-On Fourth Pole for use with Frame D contactors. Only for AC-1 load. Up to two auxiliary contacts can be fitted.

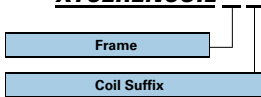
	For Use with...	AC-1 (A) Open/ Enclosed	Catalogue Number	Price \$ ex. GST
	XTCE040D00_	35/30A	XTCEX4P35D	73.00
	XTCE050D00_ XTCE065D00_	75/60A	XTCEX4P75D	84.00

Terminal Shrouds

	For Use with...	Catalogue Number	Price \$ ex. GST
	XTCE185L – XTCE400M	XTCEXTS400	60.00
	XTCE500M	XTCEXTS500	71.00
	XTCE580N – XTCE650N	XTCEXTS650	167.00
	XTCE750N – XTCEC10N	XTCEXTS820	188.00

Replacement Coils

XTCERENCOIL



Frame	AC Price	DC Price
C	35.00	162.00
D	40.00	187.00
F	88.00	213.00
G	152.00	223.00
L	735.00	
M	1103.00	
N	1745.00	

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	34.00
Suitable for 4 contactors, length = 180 mm	XTCEXCLK4B	43.00
Suitable for 5 contactors, length = 225 mm	XTCEXCLK5B	53.00

Coil Surge Suppressor



Voltage	For Use with...	Catalogue Number	Price \$ ex. GST
24 – 48 48 – 130 110 – 240 240 – 500	XTCE007B – XTCE015B, XTCF020B	XTCEXRSBW XTCEXRSBA XTCEXRSBB XTCEXRSBC	26.25 26.25 26.25 26.25
24 – 48 110 – 130 130 – 240 240 – 500	XTCE018C – XTCE032C	XTCEXRSCW XTCEXRSCA XTCEXRSCB XTCEXRSCC	26.25 26.25 26.25 26.25
24 – 48 110 – 130 130 – 240 240 – 500	XTCE040D – XTCE095F	XTCEXRFSW XTCEXRFSFA XTCEXRFSFB XTCEXRFSFC	26.25 26.25 26.25 26.25

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

■ Also built into G-R frame contactors

Catalogue Number Selection

XTIEC 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

Overload Release	
<i>Frame B</i>	<i>Frame G</i>
P16 = 0.1 – 0.16A	035 = 25 – 35A
P24 = 0.16 – 0.24A	050 = 35 – 50A
P40 = 0.24 – 0.4A	070 = 50 – 70A
P60 = 0.4 – 0.6A	100 = 70 – 100A
001 = 0.6 – 1A	125 = 95 – 125A
1P6 = 1.0 – 1.6A	150 = 120 – 150A
2P4 = 1.6 – 2.4A	
004 = 2.4 – 4A	<i>Frame L</i>
006 = 4 – 6A	070 = 50 – 70A
010 = 6 – 10A	100 = 70 – 100A
012 = 9 – 12A	125 = 95 – 125A
016 = 12 – 16A	160 = 120 – 160A
	220 = 160 – 220A
<i>Frame C</i>	250 = 200 – 250A
P16 = 0.1 – 0.16A	<i>Frame M</i>
P24 = 0.16 – 0.24A	063 = 42 – 63A
P40 = 0.24 – 0.4A	090 = 60 – 90A
P60 = 0.4 – 0.6A	125 = 85 – 125A
001 = 0.6 – 1A	160 = 110 – 160A
1P6 = 1.0 – 1.6A	240 = 160 – 240A
2P4 = 1.6 – 2.4A	290 = 190 – 290A
004 = 2.4 – 4A	400 = 270 – 400A
006 = 4 – 6A	540 = 360 – 540A
010 = 6 – 10A	
016 = 10 – 16A	<i>Frame N</i>
024 = 16 – 24A	063 = 42 – 63A
032 = 24 – 32A	090 = 60 – 90A
	125 = 85 – 125A
<i>Frame D</i>	160 = 110 – 160A
010 = 6 – 10A	240 = 160 – 240A
016 = 10 – 16A	290 = 190 – 290A
024 = 16 – 24A	400 = 270 – 400A
040 = 24 – 40A	540 = 360 – 540A
057 = 40 – 57A	630 = 420 – 630A
065 = 50 – 65A	
<i>Frame F</i>	
035 = 25 – 35A	
050 = 35 – 50A	
070 = 50 – 70A	
100 = 70 – 100A	

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 Contactor Overload Relays




2


Overload Relay

	Overload Releases, I _r	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	107.00
	0.16 – 0.24	1NO-1NC	7 – 15A	XTOBP24BC1	107.00
	0.24 – 0.4	1NO-1NC	7 – 15A	XTOBP40BC1	107.00
	0.4 – 0.6	1NO-1NC	7 – 15A	XTOBP60BC1	107.00
	0.6 – 1	1NO-1NC	7 – 15A	XTOB001BC1	107.00
	1 – 1.6	1NO-1NC	7 – 15A	XTOB1P6BC1	107.00
	1.6 – 2.4	1NO-1NC	7 – 15A	XTOB2P4BC1	107.00
	2.4 – 4	1NO-1NC	7 – 15A	XTOB004BC1	107.00
	4 – 6	1NO-1NC	7 – 15A	XTOB006BC1	107.00
	6 – 10	1NO-1NC	7 – 15A	XTOB010BC1	107.00
	9 – 12	1NO-1NC	9 – 15A	XTOB012BC1	107.00
	12 – 16	1NO-1NC	12 – 15A	XTOB016BC1	107.00

Frame C — Direct Mount

	0.1 – 0.16	1NO-1NC	18 – 32A	XTOBP16CC1	119.00
	0.16 – 0.24	1NO-1NC	18 – 32A	XTOBP24CC1	119.00
	0.24 – 0.4	1NO-1NC	18 – 32A	XTOBP40CC1	119.00
	0.4 – 0.6	1NO-1NC	18 – 32A	XTOBP60CC1	119.00
	0.6 – 1	1NO-1NC	18 – 32A	XTOB001CC1	119.00
	1 – 1.6	1NO-1NC	18 – 32A	XTOB1P6CC1	119.00
	1.6 – 2.4	1NO-1NC	18 – 32A	XTOB2P4CC1	119.00
	2.4 – 4	1NO-1NC	18 – 32A	XTOB004CC1	119.00
	4 – 6	1NO-1NC	18 – 32A	XTOB006CC1	119.00
	6 – 10	1NO-1NC	18 – 32A	XTOB010CC1	119.00
	10 – 16	1NO-1NC	18 – 32A	XTOB016CC1	119.00
	16 – 24	1NO-1NC	18 – 32A	XTOB024CC1	119.00
24 – 32	1NO-1NC	25 – 32A	XTOB032CC1	119.00	

Frame D — Direct Mount

	6 – 10	1NO-1NC	40 – 65A	XTOB010DC1	125.00
	10 – 16	1NO-1NC	40 – 65A	XTOB016DC1	125.00
	16 – 24	1NO-1NC	40 – 65A	XTOB024DC1	125.00
	24 – 40	1NO-1NC	40 – 65A	XTOB040DC1	190.00
	40 – 57	1NO-1NC	50 – 65A	XTOB057DC1	243.00
	50 – 65	1NO-1NC	65A	XTOB065DC1	243.00

Overload Relay

	Overload Releases, I _r	Contact Configuration	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	258.00
	35 – 50	1NO-1NC	80 – 150A	XTOB050GC1	294.00
	50 – 70	1NO-1NC	80 – 150A	XTOB070GC1	302.00
	70 – 100	1NO-1NC	80 – 150A	XTOB100GC1	404.00
	95 – 125	1NO-1NC	80 – 150A	XTOB125GC1	427.00
	120 – 150	1NO-1NC	80 – 150A	XTOB150GC1	464.00

Frame F – G — Separate Mount

	25 – 35	1NO-1NC	80 – 150A	XTOB035GC1S	273.00
	35 – 50	1NO-1NC	80 – 150A	XTOB050GC1S	307.00
	50 – 70	1NO-1NC	80 – 150A	XTOB070GC1S	320.00
	70 – 100	1NO-1NC	80 – 150A	XTOB100GC1S	376.00
	95 – 125	1NO-1NC	80 – 150A	XTOB125GC1S	461.00
	120 – 150	1NO-1NC	80 – 150A	XTOB150GC1S	497.00

Frame L

	50 – 70	1NO-1NC	185 – 250A	XTOB070LC1	761.00
	70 – 100	1NO-1NC	185 – 250A	XTOB100LC1	794.00
	95 – 125	1NO-1NC	185 – 250A	XTOB125LC1	794.00
	120 – 160	1NO-1NC	185 – 250A	XTOB160LC1	873.00
	160 – 220	1NO-1NC	185 – 250A	XTOB220LC1	873.00
	200 – 250	1NO-1NC	225 – 250A	XTOB250LC1	873.00

Frame M – N — Separate Mount

	42 – 63	1NO-1NC	300 – 500A	XTOT063C3S	825.00
	60 – 90	1NO-1NC	300 – 500A	XTOT090C3S	825.00
	85 – 125	1NO-1NC	300 – 500A	XTOT125C3S	942.00
	110 – 160	1NO-1NC	300 – 500A	XTOT160C3S	942.00
	160 – 240	1NO-1NC	300 – 500A	XTOT240C3S	1107.00
	190 – 290	1NO-1NC	300 – 500A	XTOT290C3S	1107.00
	270 – 400	1NO1-NC	300 – 500A	XTOT400C3S	1110.00
	360 – 540	1NO-1NC	500A	XTOT540C3S	1259.00
	420 – 630	1NO-1NC	630A	XTOT630C3S	1259.00

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

	For Use with...	Catalogue Number	Price \$ ex. GST
	XTOB...CC1	XTOBXDINC	31.00
	XTOB...DC1	XTOBXDIND	49.50

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

C396 Electronic Overload Relays



NEW
Available
4th Quarter

C396 Overload for Integrated Use with XTIEC Contactors

FLA Range (Amps)	XTIEC Contactor Frame Size / Width	Standard Class 5/10/20/30	
		Catalogue Number	Price \$ ex. GST

45 mm Overload Frame Size

0.1 – 0.5	B / 45 mm	C396A2AP05SELXB	POA
0.4 – 2.0	B / 45 mm	C396A2A002SELXB	POA
1 – 5	B / 45 mm	C396A2A005SELXB	POA
1.6 – 8	B / 45 mm	C396A2A008SELXB	POA
6.4 – 32	B / 45 mm	C396A2A032SELXB	POA
0.1 – 0.5	C / 45 mm	C396A2AP05SELXC	POA
0.4 – 2.0	C / 45 mm	C396A2A002SELXC	POA
1 – 5	C / 45 mm	C396A2A005SELXC	POA
1.6 – 8	C / 45 mm	C396A2A008SELXC	POA
6.4 – 32	C / 45 mm	C396A2A032SELXC	POA
6.4 – 32	D / 55 mm	C396A2A032SELXD	POA
9 – 45	D / 55 mm	C396A2A045SELXD	POA

65 mm Overload Frame Size

15 – 75	D / 55 mm	C396B2A075SELXD	POA
22 – 110	F – G / 90 mm	C396B2A110SELXD	POA

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

30 – 150	G / 90 mm	C396C2A150SELAX ^③	POA
110 mm XT Bus Bar Kit		C396CBARXT	POA

^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

45 mm Overload Frame Size

0.1 – 0.5	C396A2AP05SELAX	POA
0.4 – 2.0	C396A2A002SELAX	POA
1 – 5	C396A2A005SELAX	POA
1.6 – 8	C396A2A008SELAX	POA
6.4 – 32	C396A2A032SELAX	POA
9 – 45	C396A2A045SELAX	POA

65 mm Overload Frame Size

15 – 75	C396B2A075SELAX	POA
22 – 110	C396B2A110SELAX	POA

110 mm Overload Frame Size

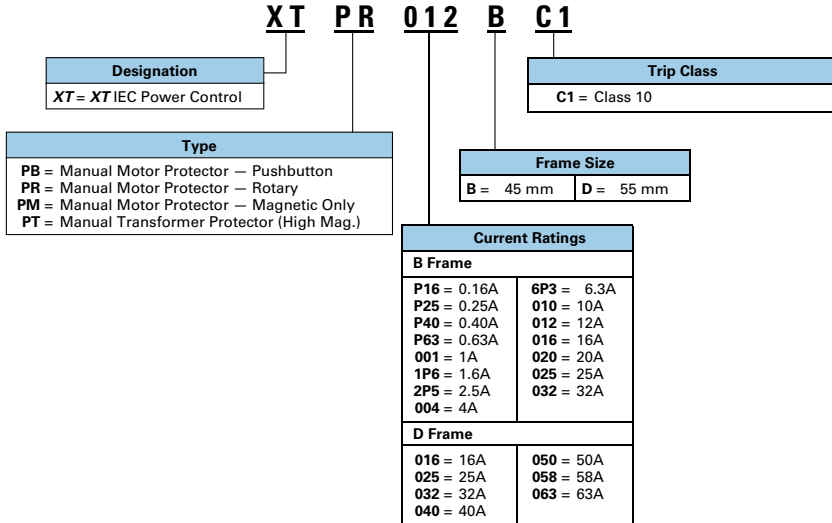
30 – 150	C396C2A150SELAX	POA
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Current Transformer Kits

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

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 2-26).

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 Maximum kW Rating AC-3 – P (kW)					Catalogue Number	Price \$ ex. GST
		3-Phase						
		220 – 240V	380 – 415V	440V	500V	660 – 690V		

Frame B

0.16	0.1 – 0.16	–	–	–	–	0.06	XTPBP16BC1	139.00
0.25	0.16 – 0.25	–	0.06	0.06	0.06	0.12	XTPBP25BC1	139.00
0.4	0.25 – 0.4	0.06	0.09	0.12	0.12	0.18	XTPBP40BC1	139.00
0.63	0.4 – 0.63	0.09	0.12	0.18	0.25	0.25	XTPBP63BC1	149.00
1	0.63 – 1	0.12	0.25	0.25	0.37	0.55	XTPB001BC1	155.00
1.6	1 – 1.6	0.25	0.55	0.55	0.75	1.1	XTPB1P6BC1	167.00
2.5	1.6 – 2.5	0.37	0.75	1.1	1.1	1.5	XTPB2P5BC1	167.00
4	2.5 – 4	0.75	1.5	1.5	2.2	3	XTPB004BC1	167.00
6.3	4 – 6.3	1.1	2.2	3	3	4	XTPB6P3BC1	195.00
10	6.3 – 10	2.2	4	4	4	7.5	XTPB010BC1	195.00
12	8 – 12	3	5.5	5.5	5.5	11	XTPB012BC1	195.00
16	10 – 16	4	7.5	9	9	12.5	XTPB016BC1	195.00
20	16 – 20	5.5	9	11	12.5	15	XTPB020BC1	202.00
25	20 – 25	5.5	12.5	12.5	15	22	XTPB025BC1	202.00

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	160.00
0.25	0.16 – 0.25	—	0.06	0.06	0.06	0.12	XTPRP25BC1	160.00
0.4	0.25 – 0.4	0.06	0.09	0.12	0.12	0.18	XTPRP40BC1	160.00
0.63	0.4 – 0.63	0.09	0.12	0.18	0.25	0.25	XTPRP63BC1	169.00
1	0.63 – 1	0.12	0.25	0.25	0.37	0.55	XTPR001BC1	176.00
1.6	1 – 1.6	0.25	0.55	0.55	0.75	1.1	XTPR1P6BC1	189.00
2.5	1.6 – 2.5	0.37	0.75	1.1	1.1	1.5	XTPR2P5BC1	189.00
4	2.5 – 4	0.75	1.5	1.5	2.2	3	XTPR004BC1	189.00
6.3	4 – 6.3	1.1	2.2	3	3	4	XTPR6P3BC1	189.00
10	6.3 – 10	2.2	4	4	4	7.5	XTPR010BC1	218.00
12	8 – 12	3	5.5	5.5	5.5	11	XTPR012BC1	218.00
16	10 – 16	4	7.5	9	9	12.5	XTPR016BC1	218.00
20	16 – 20	5.5	9	11	12.5	15	XTPR020BC1	234.00
25	20 – 25	5.5	12.5	12.5	15	22	XTPR025BC1	274.00
32	25 – 32	7.5	15	15	22	30	XTPR032BC1	350.00

Frame D

16	10 – 16	4	7.5	9	9	12.5	XTPR016DC1	391.00
25	16 – 25	5.5	12.5	12.5	15	22	XTPR025DC1	402.00
32	25 – 32	7.5	15	17.5	22	22	XTPR032DC1	477.00
40	32 – 40	11	20	22	24	30	XTPR040DC1	548.00
50	40 – 50	14	25	30	30	45	XTPR050DC1	623.00
58	50 – 58	17	30	37	37	55	XTPR058DC1	638.00
65	55 – 65	18.5	34	37	45	55	XTPR063DC1	656.00

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

Dimensions :


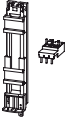
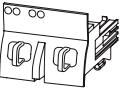
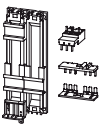
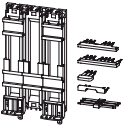
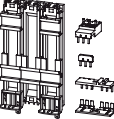
Frame B Rotary
Frame D Rotary

W: 45mm
W: 55mm

H: 93mm
H: 140mm

D: 94mm
D: 171mm

Combination Connection Kits

	For Use with...	Description	Catalogue Number	Price \$ ex. GST
Non-reversing Starters				
	XTPR...B + XTCE...B	Comprised of: <ul style="list-style-type: none"> ■ 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	58.00
	XTPR...B + XTCE...C XTPR...D + XTCE...D	Comprised of: <ul style="list-style-type: none"> ■ DIN rail adapter plate ■ Main current wiring between XTPR and contactor 	XTPAXTPCC XTPAXTPCD	63.00 74.00
Reversing Starters				
	XTPR...B + XTCE...B01_	Comprised of: <ul style="list-style-type: none"> ■ 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	116.00
	XTPR...B + XTCE...C	Comprised of: <ul style="list-style-type: none"> ■ DIN rail adapter plate ■ Reversing starter main current wiring 	XTPAXTPCRC	126.00
Star-Delta Starter Sets				
	XTPR...B + XTCE...B	Comprised of: <ul style="list-style-type: none"> ■ 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	124.00
	XTPR...B + XTCE...C	Comprised of: <ul style="list-style-type: none"> ■ DIN rail adapter plate ■ Main current wiring between XTPR...B and contactor 	XTPAXSDSC	143.00



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	26.80	XTPAXCLKB2	24.80	XTPAXCLKC2	31.60
3	XTPAXCLKA3	33.20	XTPAXCLKB3	30.90	-	
4	XTPAXCLKA4	37.90	XTPAXCLKB4	34.80	XTPAXCLKC4	37.90
5	XTPAXCLKA5	42.90	XTPAXCLKB5	39.30	-	
FRAME D						
2	XTPAXCLKA2D	55.30	XTPAXCLKB2D	59.30	XTPAXCLKC2D	69.10
3	XTPAXCLKA3D	69.10	XTPAXCLKB3D	77.00	-	
4	XTPAXCLKA4D	86.90	XTPAXCLKB4D	96.80	XTPAXCLKC4D	111.20

IP65 Rotary Handle Mechanism



Description	Cat. No	Price \$ ex. GST
Black	XTPAXRHM165B	121.70
Red	XTPAXRHM265RY	137.45

Enclosures and Padlock Attachments for Rotary MMPs



Description	Cat. No	Price \$ ex. GST
FRAME B		
Enclosure / Black Handle	XTPAXENCS65B	74.00
Padlock Attachment	XTPAXPL1	46.00
FRAME D		
Enclosure / Black Handle	XTPAXENCS65B	168.00
Padlock Attachment	XTPAXPL2	50.00

Sealing Facility for Rotary MMPs



Description	Cat. No	Price \$ ex. GST
To prevent tampering with the overload release and the test function	XTPAXSW	2.00

Incoming Terminal for Three-Phase Commoning Link



For use with	Cat. No	Price \$ ex. GST
B-Frame XTPR, XTPB	XTPAXIT	26.15

Motor Control



DOL Starters



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	
EDOL40N0240	11	4	240	1NO ●	90	184	113	115.00
EDOL55N0240	12	5.5	240	1NO ●	90	184	113	148.00
EDOL75N0240	16	7.5	240	1NO ●	90	184	113	193.00
EDOL11N0240	22	11	240	1NO ●	100	194	123	249.00
EDOL40N0415	11	4	415	1NO ●	90	184	113	115.00
EDOL55N0415	12	5.5	415	1NO ●	90	184	113	148.00
EDOL75N0415	16	7.5	415	1NO ●	90	184	113	193.00
EDOL11N0415	22	11	415	1NO ●	100	194	123	249.00

2



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	● ● ● ● ●	87.68
0.5 - 0.7	EDOL067TOL	● ● ● ● ●	87.68
0.7 - 1.0	EDOL10TOL	● ● ● ● ●	87.68
1.0 - 1.5	EDOL15TOL	● ● ● ● ●	87.68
1.5 - 2.1	EDOL21TOL	● ● ● ● ●	87.68
2.1 - 2.7	EDOL27TOL	● ● ● ● ●	87.68
2.7 - 3.6	EDOL36TOL	● ● ● ● ●	87.68
3.5 - 5.0	EDOL50TOL	● ● ● ● ●	87.68
4.0 - 6.0	EDOL60TOL	● ● ● ● ●	87.68
5.5 - 8.5	EDOL85TOL	● ● ● ● ●	87.68
8.5 - 12.5	EDOL125TOL	● ● ● ● ●	87.68
13 - 18.0	EDOL18TOL	● ● ● ● ●	87.68
17.0 - 24.0	EDOL24TOL	● ● ● ● ●	87.68
22.0 - 30.0	EDOL30TOL	● ● ● ● ●	87.68



Spare Coils

Coils suit all starter sizes

Coil Voltage (AC)	PART NUMBER	Price \$ ex GST
24V	EDOLCOIL24A	24.68
32V	EDOLCOIL32A	24.68
110V	EDOLCOIL110A	24.68
240V	EDOLCOIL240A	24.68
415V	EDOLCOIL415A	24.68
480V	EDOLCOIL480A	24.68
12V	EDOLCOIL12A	24.68

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 Ie [A]	Iq [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	Ie [A] Approx	Breaking Capacity Iq 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	HMCPE003A0C	XTCE018C10	XTOB001CC1
0.25	0.80	15	HMCPE003A0C	XTCE018C10	XTOB001CC1
0.37	1.1	15	HMCPE003A0C	XTCE018C10	XTOB1P6CC1
0.55	1.5	15	HMCPE003A0C	XTCE018C10	XTOB1P6CC1
0.75	1.9	15	HMCPE007G0C	XTCE018C10	XTOB2P4CC1
1.1	2.6	15	HMCPE007G0C	XTCE018C10	XTOB004CC1
1.5	3.6	15	HMCPE007G0C	XTCE018C10	XTOB004CC1
2.2	5	15	HMCPE007G0C	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	XTOB220L1C
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 Protectors

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

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	94.50
20A	2 NC	230 Vac	18	CR2002230A	94.50
20A	2 NO	230 Vac	18	CR2020230A	94.50
20A	1NO + 1NC	24 Vac/dc	18	CR2011024	105.00
20A	2 NO	24 Vac/dc	18	CR2002024	105.00
20A	2 NC	230 Vac	18	CR2020230A	94.50

Contactors 25A

25A	2NO + 2NC	230 Vac	36	CR2522230A	117.00
25A	4 NC	230 Vac	36	CR2504230A	117.00
25A	4 NO	230 Vac	36	CR2540230A	117.00
25A	2NO + 2NC	24 Vac/dc	36	CR2522024	139.00
25A	4 NC	24 Vac/dc	36	CR2504024	139.00
25A	4 NO	24 Vac/dc	36	CR2540024	139.00

Contactors 40A

40A	2 NC	230 Vac/dc	54	CR4002230	199.50
40A	2 NO	230 Vac/dc	54	CR4020230	199.50
40A	4 NO	230 Vac/dc	54	CR4040230	199.50
40A	4 no	24 Vac/dc	54	CR4040024	199.50

Contactors 63A - AC Coil

63A	2 NO	230 Vac/dc	54	CR6320230	292.00
63A	4 NO	24 Vac/dc	54	CR6340024	292.00
63A	4 NO	230 Vac/dc	54	CR6340230	292.00

Auxiliary Contacts

Description	Contact Config	Rating	Width mm	Cat Number	Price \$ ex. GST
Auxiliary contact for contactors	1NO + 1NC	6A	9mm	CRA611	42.50
Auxiliary contact for contactors	2NO	6A	9mm	CRA620	42.50

Terminal Covers / Spacers

Description	Type Contactor	Width mm	Cat Number	Price \$ ex. GST
Terminal cover, sealable	For 20A	18mm	CRC20	3.15
Terminal cover, sealable	For 25A	36mm	CRC25	3.15
Terminal cover, sealable	For 40 / 63A	54mm	CRC63	5.25
Spacer for contactors	-	9mm	CRS	8.40



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	V201KRCJZ1	3035.00
320A	V201KTCJZ1	3450.00
540A	V201KVCJZ1	4140.00

- 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	112.00
2NO	J-20	112.00
2NC	J-02	112.00

Mechanical Interlocks

Description	Cat. No	Stock Code S
		Price \$ ex. GST
For mechanically interlocking two 160A Vacuum Contactors	180C113G04	121.00
For mechanically interlocking two 320A Vacuum Contactors	180C113G16	121.00
For mechanically interlocking two 540A Vacuum Contactors	180C113G17	121.00

Motor Control

Air Break 1000V Contactors



2



Description	Poles	Coil Voltage	Cat. No	Price ex. GST
35A	3	110V	DPCK3035AW	1914.00
35A	3	240V	DPCK3035WWW	2013.00
35A	5	110V	DPCK5035AW	2821.00
100A	3	110V	DPCK3100AW	2293.00
250A	3	110V	DPCK3250V	3498.00
250A	3	240V	DPCK3250W	3498.00

Accessories

Description	Cat. No	Stock Code S	Price \$ ex. GST
Auxiliary contact 1NC/1NO	J-11		112.00
Auxiliary contact 2NO	J-20		112.00
Auxiliary contact 2NC	J-02		112.00
Mechanical interlock for 35A contactor	180C113G09		279.00
Replacement contacts for 35A contactor (Kit of 3)*	180C180G02		665.00
Replacement contacts for 100A contactor (Kit of 3)	180C180G06		873.00

*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.



For further information:
1300 332 866
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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)

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	688.50
0.59 - 1.9 A	0.75 kW	S752L02N3S	I	688.50
1.4 - 4 A	2.0 kW	S752L04N3S	I	688.50
2.8 - 9 A	4.5 kW	S752L09N3S	S	688.50
5 - 16 A	7.5 kW	S752L16N3S	S	780.90
8.4 - 27 A	12.5 kW	S752L27N3S	S	780.90
16 - 50 A	25 kW	S752L50N3S	S	780.90

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	668.50
1.1 - 3.2 A	1.1 kW	S752L02N3DV06	I	668.50
2.5 - 7.6 A	3.0 kW	S752L04N3DV06	I	668.50
4.9 - 15 A	7.5 kW	S752L09N3DV06	I	668.50
8.7 - 27 A	12.5 kW	S752L16N3DV06	I	780.90
15 - 46A	22 kW	S752L27N3DV06	I	780.90
28 - 86 A	45 kW	S752L50N3DV06	S	780.90

Accessories

Description	Cat No	Stock Code	Price \$ ex GST
Auxiliary contact 1 NO	EMA13	I	26.80
Auxiliary contact 1 NC	EMA14	I	26.80
Auxiliary contact 1 NO/1 NC	EMA15	S	32.10
Auxiliary contact 2 NO	EMA16	I	32.10
Auxiliary contact 2 NC	EMA17	I	32.10
Control Terminal Block	EMA76LS	I	21.40
240VAC-24VDC Power Supply	PSS25E	S	139.10
415VAC-24VDC Power Supply	PSS25F	I	160.50
DSNAP kit for DeviceNet comms	D77B-DSNAP-X1	I	460.10
QSNAP kit for Ethernet/Modbus	D77B-QSNAP-X1	I	462.70

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	3218.90
66	42	37	22	S801N66P3S	I	3404.20
105	65	60	37	S801R10P3S	I	4027.80
135	80	75	45	S801R13P3S	I	4286.20
180	115	100	63	S801T18P3S	I	6224.20
240	150	132	90	S801T24P3S	I	6404.00
304	192	185	110	S801T30P3S	I	6606.60
360	240	200	132	S801U36P3S	NEW I	8250.00
420	305	220	160	S801U42P3S	NEW I	8750.00
500	365	295	200	S801U50P3S	NEW I	9250.00
650	420	400	220	S801V65P3S	I	9943.00
720	480	425	280	S801V72P3S	I	10,094.70
850	525	500	300	S801V85P3S	I	10,252.00
1000	600	600	375	S801V10P3S	I	10,993.50

*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.

Accessories

Description	Cat No	Stock Code	Price \$ ex GST
110V (90-140V) AC Input, 24V DC Output, 55W Power Supply	PSS55A	S	337.10
240V (180-260V) AC Input, 24V DC Output, 55W Power Supply	PSS55B	S	315.70
415V (360-500V) AC Input, 24V DC Output, 55W Power Supply	PSS55C	I	401.30
DIN rail mounting kit	PSSDIN	I	21.40
Metal-oxide varistor for S801 soft starter	EMS39	I	519.00
1 cable connection, up to 1 x 240mm dia(S801TXXX/S801UXXX)	EML23	I	390.60
2 cable connection, up to 2 x 240mm dia(S801TXXX/S801UXXX)	EML24	S	426.90
1 cable connection, up to 1 x 150mm dia(S801TXXX/S801UXXX)	EML25	I	390.60
2 cable connection, up to 2 x 150mm dia(S801TXXX/S801UXXX)	EML26	I	426.90
2 cable connection, up to 2 x 240mm dia(S801VXXX)	EML28	S	395.90
4 cable connection, up to 4 x 240mm dia(S801VXXX)	EML30	I	545.40
6 cable connection, up to 6 x 240mm dia(S801VXXX)	EML32*	I	1336.40
4 cable connection, up to 4 x 150mm dia(S801VXXX)	EML33	I	545.70
Universal lug connection kit, 45 degrees, set of 3	EML40	I	947.00
45mm Busbar Lug Kit(S801TXXX)	EML50	S	551.10
2 inch Busbar Lug Kit(S801VXXX)	EML51A	I	684.80
3 inch Busbar Lug Kit(S801VXXX)	EML51B	I	684.80
CIM Card Panel Mount Kit, 1m Cable	EMA69B	I	374.80
CIM Card Panel Mount Kit, 2m Cable	EMA69C	S	443.80
12-pin locking control terminal block	EMA75	I	21.40

* Requires additional special lug cover.

For voltages rated 690V to 5000V 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.

Motor Control

IT. IEC Soft Starters



2

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 Below)

Max current Normal Duty	(amps) Severe Duty	kW rating at 415V AC		Cat. No.	Stock Code	Price \$ ex GST
		Normal Duty*	Severe Duty**			
37	22	18.5	11	S811N37P3S	I	3859.30
66	42	37	22	S811N66P3S	S	4084.00
105	65	60	37	S811R10P3S	S	4831.10
135	80	75	45	S811R13P3S	S	5140.10
180	115	100	63	S811T18P3S	S	7465.70
240	150	132	90	S811T24P3S	S	7684.70
304	192	185	110	S811T30P3S	S	7920.20
360	240	200	132	S811U36P3S NEW	I	9250.00
420	305	220	160	S811U42P3S NEW	I	9750.00
500	365	295	200	S811U50P3S NEW	I	10,250.00
650	420	400	220	S811V65P3S	I	11,931.60
720	480	425	280	S811V72P3S	S	12,117.00
850	525	500	300	S811V85P3S	S	12,302.30
1000	600	600	375	S811V10P3S	I	13,195.60

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

Product Description	Cat. No.	Stock Code	Price \$ ex GST
Device Net to QCPort Network Adapter	D77D-DNA	S	668.80
Ethernet/Serial Modbus to QCPort Network Adapter	D77D-EMA	I	733.00
Profibus DP to QCPort Network Adapter	D77D-PNA	I	1054.00
Power Supply, 110-240V AC IN, 24V DC OUT, 24 watts, 1 A	D77E-PS1	I	91.00
CH Studio Component Manager V2.1	D77SC-X-D	I	1952.80
CH Studio Component Manager V2.1 c/w USB Interface	D77SC-A-D	I	2461.00
USB to CAN Interface c/w cables (no software)	D77SX-A-X	I	850.70
Digital Interface Module (DIM) - amber display	EMA91	I	250.00
110V (90-140V) AC Input, 24V DC Output, 55W Power Supply	PSS55A	S	337.10
240V (180-260V) AC Input, 24V DC Output, 55W Power Supply	PSS55B	S	315.70
415V (360-500V) AC Input, 24V DC Output, 55W Power Supply	PSS55C	I	401.30
DIN rail mounting kit	PSSDIN	I	21.40
Metal-oxide varistor for S801 soft starter	EMS39	I	519.00
1 cable connection, up to 1 x 240mm dia(S811TXXX)	EML23	I	390.60
2 cable connection, up to 2 x 240mm dia(S811TXXX)	EML24	S	426.90
1 cable connection, up to 1 x 150mm dia(S811VXXX)	EML25	I	390.60
2 cable connection, up to 2 x 150mm dia(S811VXXX)	EML26	I	426.90
2 cable connection, up to 2 x 240mm dia(S811VXXX)	EML28	S	395.90
4 cable connection, up to 4 x 240mm dia(S811VXXX)	EML30	I	545.70
6 cable connection, up to 6 x 240mm dia(S811VXXX)	EML32*	I	1336.40
4 cable connection, up to 4 x 150mm dia(S811VXXX)	EML33	I	545.70
Universal lug connection kit, 45 degrees, set of 3	EML40	I	947.00
45mm Busbar Lug Kit(S811TXXX)	EML50	S	551.10
2 inch Busbar Lug Kit(S811VXXX)	EML51A	I	684.80
3 inch Busbar Lug Kit(S811VXXX)	EML51B	I	684.80
DIM Card Panel Mount Kit, 1m Cable	EMA69B	I	374.50
DIM Card Panel Mount Kit, 2m Cable	EMA69C	S	443.80
12-Pin Locking Control Terminal Block	EMA75L	I	21.40

* Requires additional special lug cover.

For voltages rated 690V to 75kV 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 .



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	385.20
15 A	24 - 480V DC	75 kW	S701E15N3S	I	459.00
25 A	24 - 480V DC	11 kW	S701E25N3S	I	690.20



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	957.70

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: 75% 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	1391.00



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

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	219.10
TL480N25	25 A	208 - 240V AC	4 kW	I	275.30
3-Phase Motors					
TL480N15	15 A	208 - 480V AC	7.5 kW	I	219.10
TL480N25	25 A	208 - 480V AC	12.5 kW	I	275.30

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	428.00
S511E10N3S	10 A	24 - 240V AC/DC	4 kW	I	428.00



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

- 115V AC – 600V AC, 1/4 – 350 hp/3/4 – 250 kW, 50/60 Hz
- 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
- Front and side mounted Auxiliary Contacts: 1NO, 1NC, 2NO, 2NC, 1NO/1NC and logic level
- 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

2

Max. Amp. Rating 480V AC AC-3	Rating AC-1	Maximum kW Rating @ Ue(V) 50/60 Hz AC-3				Cat No.	Stock Code	Price \$ Ex GST
		220V/240V	380V	400V/415V	440V/460V			
Frame A (27 mm) - smallest contactor in the market.								
6	12	1.1	2.2	2.2	2.2	E111A06X3N	S	55.00
9	16	2.2	4	4	4	E111A09X3N	S	65.00
12	20	3	5.5	5.5	5.5	E111A12X3N	S	75.00
Frame B (45 mm)								
18	25	4	7.5	9	9	E111B18X3N	S	105.00
25	40	5.5	12.5	12.5	12.5	E111B25X3N	S	140.00
32	50	9	15	15	15	E111B32X3N	S	195.00
Frame C (54 mm)								
40	63	11	18.5	18.5	22	E111C40X3N	S	245.00
50	85	12.5	22	22	25	E111C50X3N	S	295.00
Frame D (76 mm)								
65	100	18.5	30	33	40	E111D65X3N	I	325.00
85	115	25	45	45	51	E111D85X3N	I	425.00
100	130	25	51	55	59	E111D10X3N	S	525.00
Frame E (105 mm)								
125	200	33	80	63	80	E111E12X3N	I	750.00
160	225	45	100	80	100	E111E16X3N	I	950.00
200	250	59	51	110	110	E111E20X3N	I	1,250.00
Frame F (140 mm)								
250	300	75	132	140	160	E111F25X3N	I	1,550.00
315	375	90	160	160	200	E111F31X3N	I	1,950.00
420	450	110	220	220	257	E111F42X3N	I	2,450.00

Note:

- An E111 (45 – 105 mm) consists of an E04N (Contact Block) and an E02N (FVNR Coil Controller), factory assembled.
- An E111 (27 and 140 mm) has an internal coil controller, factory assembled.
- 24V DC coil voltage.
- If required, accessories are available
- Integral solid-state auxiliary hold-in circuit.
- 3 main contacts.
- Control inputs (P, F) are rated 24V DC (3 – 5 mA).



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

- Includes Reversing Power Wiring and bus bars
- Mounting plates for B-Frame (45 mm) to E-Frame (105 mm)
- Exclusive internal electronic interlock for reversing
- Unique coil controller energizes both forward and reverse contactors — one control point for wiring
- 24V DC power supply required with contactors

Max. Amp. Rating 480V AC AC-3	Max. Amp. Rating 480V AC AC-1	Maximum kW Rating @ Ue(V) 50/60 Hz AC-3				Cat No.	Stock Code	Price \$ Ex GST
		220V/240V	380V	400V/415V	440V/460V			
Frame A (27 mm)								
6	12	1.1	2.2	2.2	3	E511A06X3N	I	115.00
9	16	2.2	4	4	4	E511A09X3N	I	135.00
12	20	5.5	5.5	5.5	6.5	E511A12X3N	I	155.00
Frame B (45 mm)								
18	25	4	7.5	9	9	E511B18X3N	I	250.00
25	40	5.5	12.5	12.5	13	E511B25X3N	I	350.00
32	50	9	15	15	18.5	E511B32X3N	I	450.00
Frame C (54 mm)								
40	63	11	18.5	22	22	E511C40X3N	I	550.00
50	85	12.5	22	25	30	E511C50X3N	I	650.00
Frame D (76 mm)								
65	100	18.5	30	33	40	E511D65X3N	I	725.00
85	115	25	45	45	51	E511D85X3N	I	925.00
100	130	25	51	55	59	E511D10X3N	I	1,125.00
Frame E (105 mm)								
125	200	33	63	63	80	E511E12X3N	I	1,750.00
160	225	45	80	80	100	E511E16X3N	I	2,150.00
200	250	59	100	100	110	E511E20X3N	I	2,750.00
Frame F(140 mm)								
250	300	75	132	140	160	E511F25X3N	I	3,500.00
315	375	90	160	160	200	E511F31X3N	I	4,500.00
420	450	110	220	220	257	E511F42X3N	I	5,500.00

Note:

- An E511 (45 – 105 mm) consists of two E04N (Contact Blocks), an E03N (FVR Coil Controller), Mechanical Interlock, Fanning Strips and Mounting Plate, factory assembled.
- An E511F (140 mm) consists of two E111F (Contactors), Mechanical Interlock, Crossover Bus Bars and Wiring Harness, factory assembled.
- An E511A (27 mm) Contactor is factory assembled only.
- 24V DC coil voltage.
- If required, accessories are available
- Integral solid-state auxiliary hold-in circuit.
- 3 main contacts.
- Control inputs (P, F) are rated 24V DC (3 – 5 mA).



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
- Front and side mounted Auxiliary Contacts: 1NO, 1NC, 2NO, 2NC, 1NO/1NC, logic level (1NO/1NC)

2

Max. Amp. Rating 480V AC AC-3	AC-1	Maximum kW Rating @ Ue(V) 50/60 Hz AC-3				Cat No.	Stock Code	Price \$ Ex GST
		220V/240V	380V	400V/415V	440V/460V			
Frame A (27 mm)								
6	.25 – .8	1.1	2.2	2.2	3	E101A06A3A	S	185.00
	.59 – 1.9					E101A06B3A	S	185.00
	1.4 – 4.4					E101A06C3A	S	185.00
	2.8 – 9.0					E101A06D3A	S	185.00
	3.8 – 12					E101A06E3A	S	185.00
9	.25 – .8	2.2	4	4	4	E101A09A3A	S	195.00
	.59 – 1.9					E101A09B3A	S	195.00
	1.4 – 4.4					E101A09C3A	S	195.00
	2.8 – 9.0					E101A09D3A	S	195.00
	3.8 – 12					E101A09E3A	S	195.00
12	.25 – .8	3	5.5	5.5	6.5	E101A12A3A	S	205.00
	.59 – 1.9					E101A12B3A	S	205.00
	1.4 – 4.4					E101A12C3A	S	205.00
	2.8 – 9.0					E101A12D3A	S	205.00
	3.8 – 12					E101A12E3A	S	205.00
Frame B (45 mm)								
18	.25 – .8	4	7.5	9	9	E101B18A3A	I	325.00
	.59 – 1.9					E101B18B3A	I	325.00
	1.4 – 4.4					E101B18C3A	I	325.00
25	.25 – .8	5.5	12.5	12.5	13	E101B25A3A	I	350.00
	.59 – 1.9					E101B25B3A	I	350.00
	1.4 – 4.4					E101B25C3A	I	350.00
	2.8 – 9.0					E101B25D3A	I	350.00
	6.3 – 20					E101B25G3A	I	350.00
	10 – 32					E101B25J3A	I	350.00
32	.25 – .8	9	15	15	18.5	E101B32A3A	I	375.00
	.59 – 1.9					E101B32B3A	I	375.00
	1.4 – 4.4					E101B32C3A	I	375.00
	2.8 – 9.0					E101B32D3A	I	375.00
	6.3 – 20					E101B32G3A	I	375.00
	10 – 32					E101B32J3A	I	375.00

Motor Control



IT. IEC Starters

2

Max. Amp. Rating AC-3	480V AC AC-1	Maximum kW Rating @ Ue(V) 50/60 Hz AC-3				Cat No.	Stock Code	Price \$ Ex GST
		220V/240V	380V	400V/415V	440V/460V			
Frame C (54 mm)								
40	.25 – .8	11	18.5	22	22	E101C40A3A		475.00
	.59 – 1.9					E101C40B3A		475.00
	1.4 – 4.4					E101C40C3A		475.00
	2.8 – 9.0					E101C40D3A		475.00
	5.0 – 16					E101C40F3A		475.00
	8.4 – 27					E101C40H3A		475.00
	16 – 50					E101C40L3A		475.00
50	.25 – .8	12.5	22	25	30	E101C50A3A		525.00
	.59 – 1.9					E101C50B3A		525.00
	1.4 – 4.4					E101C50C3A		525.00
	2.8 – 9.0					E101C50D3A		525.00
	5.0 – 16					E101C50F3A		525.00
	8.4 – 27					E101C50H3A		525.00
	16 – 50					E101C50L3A		525.00
Frame D (76 mm)								
65	5.0 – 16	18.5	30	33	40	E101D65F3A		595.00
	8.4 – 27					E101D65H3A		595.00
	14 – 45					E101D65K3A		595.00
	31 – 100					E101D65N3A		595.00
85	5.0 – 16	25	45	45	51	E101D85F3A		695.00
	8.4 – 27					E101D85H3A		695.00
	14 – 45					E101D85K3A		695.00
	31 – 100					E101D85N3A		695.00
100	5.0 – 16	25	51	55	59	E101D10F3A		795.00
	8.4 – 27					E101D10H3A		795.00
	14 – 45					E101D10K3A		795.00
	31 – 100					E101D10N3A		795.00
Frame E (105 mm)								
125	14 – 45	33	63	63	80	E101E12K3A		1195.00
	28 – 90					E101E12M3A		1195.00
	42 – 135					E101E12P3A		1195.00
	63 – 200					E101E12R3A		1195.00
160	14 – 45	45	80	80	100	E101E16K3A		1250.00
	28 – 90					E101E16M3A		1395.00
	42 – 135					E101E16P3A		1395.00
	63 – 200					E101E16R3A		1395.00
200	14 – 45	59	100	110	110	E101E20K3A		1695.00
	28 – 90					E101E20M3A		1695.00
	42 – 135					E101E20P3A		1695.00
	63 – 200					E101E20R3A		1695.00
Frame F(140 mm)								
250	42 – 135	75	132	140	160	E101F25P3A		2195.00
	84 – 270					E101F25S3A		2195.00
	131 – 420					E101F25T3A		2195.00
315	42 – 135	90	160	160	200	E101F31P3A		2595.00
	84 – 270					E101F31S3A		2595.00
	131 – 420					E101F31T3A		2595.00
420	42 – 135	110	220	220	257	E101F42P3A		3095.00
	84 – 270					E101F42S3A		3095.00
	131 – 420					E101F42T3A		3095.00



Full Voltage Reversing DC-Operated, Open Type Starters (A – F Frames) with 3-Pole Solid-State Overload Protection

- Includes Reversing Power Wiring and bus bars
- Mounting plates for B-Frame (45 mm) to E-Frame (105 mm)
- Built-in electronic interlock for FVR units
- Unique overload board energizes both forward and reverse starters — one control point for wiring
- 24V DC power supply required with starters

Max. Amp. Rating AC-3	480V AC AC-1	Maximum kW Rating @ Ue(V) 50/60 Hz AC-3				Cat No.	Stock Code	Price \$ Ex GST		
		220V/240V	380V	400V/415V	440V/460V					
Frame A (27 mm)										
6	.25 – .8	1.1	2.2	2.2	3	E501A06A3A	I	395.00		
	.59 – 1.9							E501A06B3A	I	395.00
	1.4 – 4.4							E501A06C3A	I	395.00
	2.8 – 9.0							E501A06D3A	I	395.00
	3.8 – 12							E501A06E3A	I	395.00
9	.25 – .8	2.2	4	4	4	E501A09A3A	I	495.00		
	.59 – 1.9							E501A09B3A	I	495.00
	1.4 – 4.4							E501A09C3A	I	495.00
	2.8 – 9.0							E501A09D3A	I	495.00
	3.8 – 12							E501A09E3A	I	495.00
12	.25 – .8	3	5.5	5.5	6.5	E501A12A3A	I	575.00		
	.59 – 1.9							E501A12B3A	I	575.00
	1.4 – 4.4							E501A12C3A	I	575.00
	2.8 – 9.0							E501A12D3A	I	575.00
	3.8 – 12							E501A12E3A	I	575.00
Frame B (45 mm)										
18	.25 – .8	4	7.5	9	9	E501B18A3A	I	625.00		
	.59 – 1.9							E501B18B3A	I	625.00
	1.4 – 4.4							E501B18C3A	I	625.00
	2.8 – 9.0							E501B18D3A	I	625.00
	6.3 – 20							E501B18G3A	I	625.00
25	10 – 32	5.5	12.5	12.5	13	E501B18J3A	I	625.00		
	.25 – .8							E501B25A3A	I	650.00
	.59 – 1.9							E501B25B3A	I	650.00
	1.4 – 4.4							E501B25C3A	I	650.00
	2.8 – 9.0							E501B25D3A	I	650.00
32	6.3 – 20	9	15	15	18.5	E501B25G3A	I	650.00		
	10 – 32							E501B25J3A	I	650.00
	.25 – .8							E501B32A3A	I	675.00
	.59 – 1.9							E501B32B3A	I	675.00
	1.4 – 4.4							E501B32C3A	I	675.00
32	2.8 – 9.0	9	15	15	18.5	E501B32D3A	I	675.00		
	6.3 – 20							E501B32G3A	I	675.00
	10 – 32							E501B32J3A	I	675.00



Full Voltage Reversing DC-Operated, Open Type Starters (A – F Frames) with 3-Pole Solid-State Overload Protection

- Includes Reversing Power Wiring and bus bars
- Mounting plates for B-Frame (45 mm) to E-Frame (105 mm)
- Built-in electronic interlock for FVR units
- Unique overload board energizes both forward and reverse starters — one control point for wiring
- 24V DC power supply required with starters

Max. Amp. Rating AC-3	Rating 480V AC AC-1	Maximum kW Rating @ Ue(V) 50/60 Hz AC-3				Cat No.	Stock Code	Price \$ Ex GST
		220V/240V	380V	400V/415V	440V/460V			
Frame C (54 mm)								
40	.25 – .8	11	18.5	22	22	E501C40A3A	I	725.00
	.59 – 1.9					E501C40B3A	I	725.00
	1.4 – 4.4					E501C40C3A	I	725.00
	2.8 – 9.0					E501C40D3A	I	725.00
	5.0 – 16					E501C40F3A	I	725.00
	8.4 – 27					E501C40H3A	I	725.00
	16 – 50					E501C40L3A	I	725.00
50	.25 – .8	12.5	22	25	30	E501C50A3A	I	775.00
	.59 – 1.9					E501C50B3A	I	775.00
	1.4 – 4.4					E501C50C3A	I	775.000
	2.8 – 9.0					E501C50D3A	I	775.00
	5.0 – 16					E501C50F3A	I	775.00
	8.4 – 27					E501C50H3A	I	775.00
	16 – 50					E501C50L3A	I	775.00
Frame D (76 mm)								
65	5.0 – 16	18.5	30	33	40	E501D65F3A	I	850.00
	8.4 – 27					E501D65H3A	I	850.00
	14 – 45					E501D65K3A	I	850.00
	31 – 100					E501D65N3A	I	850.00
85	5.0 – 16	25	45	45	51	E501D85F3A	I	950.00
	8.4 – 27					E501D85H3A	I	950.00
	14 – 45					E501D85K3A	I	950.00
	31 – 100					E501D85N3A	I	950.00
100	5.0 – 16	25	51	55	59	E501D10F3A	I	950.00
	8.4 – 27					E501D10H3A	I	1050.00
	14 – 45					E501D10K3A	I	1050.00
	31 – 100					E501D10N3A	I	1050.00



Full Voltage Reversing DC-Operated, Open Type Starters (A – F Frames) with 3-Pole Solid-State Overload Protection

- Includes Reversing Power Wiring and bus bars
- Mounting plates for B-Frame (45 mm) to E-Frame (105 mm)
- Built-in electronic interlock for FVR units
- Unique overload board energizes both forward and reverse starters — one control point for wiring
- 24V DC power supply required with starters

Max. Amp. Rating AC-3	Rating 480V AC AC-1	Maximum kW Rating @ Ue(V) 50/60 Hz AC-3				Cat No.	Stock Code	Price \$ Ex GST
		220V/240V	380V	400V/415V	440V/460V			
Frame E (105 mm)								
125	14 – 45	33	63	63	80	E501E12K3A	I	1995.00
	28 – 90					E501E12M3A	I	1995.00
	42 – 135					E501E12P3A	I	1995.00
	63 – 200					E501E12R3A	I	1995.00
160	14 – 45	45	80	80	100	E501E16K3A	I	2495.00
	28 – 90					E501E16M3A	I	2495.00
	42 – 135					E501E16P3A	I	2495.00
	63 – 200					E501E16R3A	I	2495.00
200	14 – 45	59	100	110	110	E501E20K3A	I	2995.00
	28 – 90					E501E20M3A	I	2995.00
	42 – 135					E501E20P3A	I	2995.00
	63 – 200					E501E20R3A	I	2995.00
Frame F(140 mm)								
250	42 – 135	75	132	140	160	E501F25P3A	I	4995.00
	84 – 270					E501F25S3A	I	4995.00
	131 – 420					E501F25T3A	I	4995.00
315	42 – 135	90	160	160	200	E501F31P3A	I	5495.00
	84 – 270					E501F31S3A	I	5495.00
	131 – 420					E501F31T3A	I	5495.00
420	42 – 135	110	220	220	257	E501F42P3A	I	5995.00
	84 – 270					E501F42S3A	I	5995.00
	131 – 420					E501F42T3A	I	5995.00

Note:

- If required, accessories are available
- A-Frame 27 mm IT. Starter is for 1 – or 3-phase applications.
- The standard B – F-Frame (45 mm to 140 mm) IT. Starters are for 3-phase applications.
- An E101 (27 – 105 mm) consists of an E04N (Contact Block) or E111A (Contactor) and an E05N (Non-reversing Overload Relay), factory assembled. An E101F (140 mm) consists of an E111 (Contactor) and an E05N (Non-reversing Overload Relay), factory assembled.
- Control inputs (P, F) are rated 24V DC (3 – 5 mA).

Modular Components — Contactor Field Assembly

IEC Contact Block + Non-reversing Coil Controller = FVNR Contactor

EXAMPLE FOR A FULL VOLTAGE NON-REVERSING CONTACTOR:
E04NC50X3N + E02NCXCXNN = E111C50X3N

(2) IEC Contact Blocks + Reversing Coil Controller + Mechanical Interlock + (2) Fanning Strips + Mounting Plate = FVR Contactor

Reversing Kit

EXAMPLE FOR A FULL VOLTAGE REVERSING CONTACTOR:
(2) E04NC50X3N + E03NCXCXNN + EMRKTC (REVERSING KIT) = E511C50X3N

Modular Contactor Assembly

Modular Components — Starter Field Assembly

IEC Contact Block + Non-reversing Overload Relay = FVNR Starter

EXAMPLE FOR A FULL VOLTAGE NON-REVERSING STARTER:
E04NC50X3N + E05NCXRL3A = E101C50L3A

(2) IEC Contact Blocks + Reversing Overload Relay + Mechanical Interlock + (2) Fanning Strips + Mounting Plate = FVR Starter

Reversing Kit

EXAMPLE FOR A FULL VOLTAGE REVERSING STARTER:
(2) E04NC50X3N + E06NCXRL3A + EMRKTC (REVERSING KIT) = E501C50L3A

Modular Starter Assembly

Motor Control

IT. IEC Contactors and Starters Accessories



IT Non-reversing Solid-State Overload Relay

Frame	Overload Adjustment Range(A)	Cat. No.	Stock Code	Price \$ ex GST
Frame A (27 mm)	.25 – .8	E05NAXRA3A	S	125.00
	.59 – 1.9	E05NAXRB3A	S	125.00
	1.4 – 4.4	E05NAXRC3A	S	125.00
	2.8 – 9.0	E05NAXRD3A	S	125.00
	3.8 – 12	E05NAXRE3A	S	125.00
Frame B (45 mm)	.25 – .8	E05NBXRA3A	I	175.00
	.59 – 1.9	E05NBXRB3A	I	175.00
	1.4 – 4.4	E05NBXRC3A	I	175.00
	2.8 – 9.0	E05NBXRD3A	I	175.00
	6.3 – 20	E05NBXRG3A	I	175.00
	10 – 32	E05NBXRJ3A	I	175.00
Frame C (54 mm)	.25 – .8	E05NCXRA3A	I	225.00
	.59 – 1.9	E05NCXRB3A	I	225.00
	1.4 – 4.4	E05NCXRC3A	I	225.00
	2.8 – 9.0	E05NCXRD3A	I	225.00
	5.0 – 16	E05NCXRF3A	I	225.00
	8.4 – 27	E05NCXRH3A	I	225.00
	16 – 50	E05NCXRL3A	I	225.00
Frame D (76 mm)	5.0 – 16	E05NDXRF3A	I	250.00
	8.4 – 27	E05NDXRH3A	I	250.00
	14 – 45	E05NDXRK3A	I	250.00
	31 – 100	E05NDXRN3A	I	250.00
Frame E (105 mm)	14 – 45	E05NEXRK3A	I	375.00
	28 – 90	E05NEXRM3A	I	375.00
	42 – 135	E05NEXRP3A	I	375.00
	63 – 200	E05NEXRR3A	I	375.00
Frame F(140 mm)	42 – 135	E05NFXRP3A	I	650.00
	84 – 270	E05NFXRS3A	I	650.00
	131 – 420	E05NFXRT3A	I	650.00



IT Reversing Solid-State Overload Relay

Frame	Overload Adjustment Range(A)	Cat. No.	Stock Code	Price \$ Ex GST
Frame B (45 mm)	.25 – .8	E06NBXRA3A		175.00
	.59 – 1.9	E06NBXRB3A		175.00
	1.4 – 4.4	E06NBXRC3A		175.00
	2.8 – 9.0	E06NBXRD3A		175.00
	6.3 – 20	E06NBXRG3A		175.00
	10 – 32	E06NBXRJ3A		175.00
Frame C (54 mm)	.25 – .8	E06NCXRA3A		225.00
	.59 – 1.9	E06NCXRB3A		225.00
	1.4 – 4.4	E06NCXRC3A		225.00
	2.8 – 9.0	E06NCXRD3A		225.00
	5.0 – 16	E06NCXRF3A		225.00
	8.4 – 27	E06NCXRH3A		225.00
Frame D (76 mm)	16 – 50	E06NCXRL3A		225.00
	5.0 – 16	E06NDXRF3A		250.00
	8.4 – 27	E06NDXRH3A		250.00
	14 – 45	E06NDXRK3A		250.00
Frame E (105 mm)	31 – 100	E06NDXRN3A		250.00
	14 – 45	E06NEXRK3A		375.00
	28 – 90	E06NEXRM3A		375.00
	42 – 135	E06NEXRP3A		375.00
	63 – 200	E06NEXRR3A		375.00



IT Main Contact Block

Frame	Amperes	Cat. No.	Stock Code	Price \$ ex GST
B-Frame 45 mm	18	E04NB18X3N		125.00
	25	E04NB25X3N		125.00
	32	E04NB32X3N		125.00
C-Frame 54 mm	40	E04NC40X3N		165.00
	50	E04NC50X3N		165.00
D-Frame 76 mm	65	E04ND65X3N		275.00
	85	E04ND85X3N		275.00
	100	E04ND10X3N		275.00
E-Frame 105 mm	125	E04NE12X3N		695.00
	160	E04NE16X3N		695.00
	200	E04NE20X3N		695.00

Note:

- E04N + E05N = E101; E04N + E02N = E111 (45 – 105 mm)
- E04N + E06N = E501; E04N + E03N = E511 (45 – 105 mm)



IT Coil Controller

Frame	Cat. No.	Stock Code	Price \$ ex GST
Non-reversing			
B-Frame — 45 mm	E02NBXCXNN		65.00
C-Frame — 54 mm	E02NCXCXNN		75.00
D-Frame — 76 mm	E02NDXCXNN		150.00
E-Frame — 105 mm	E02NEXCXNN		295.00
F-Frame — 140 mm	EMUCCF		325.00
Reversing			
B-Frame — 45 mm	E03NBXCXNN		95.00
C-Frame — 54 mm	E03NCXCXNN		170.00
D-Frame — 76 mm	E03NDXCXNN		200.00
E-Frame — 105 mm	E03NEXCXNN		295.00
F-Frame — 140 mm	EMUCCF		325.00



A-F Frames

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	30.00
1	3	3	3	3.00	~	1NC	EMA14	I	30.00
~	2	2*	3	3.00	~	1NO-1NC	EMA15	S	40.00
~	2	2*	3	3.00	~	2NO	EMA16	S	40.00
~	2	2*	3	3.00	~	2NC	EMA17	I	40.00
1	2	3	3	3.00	3	Logic Level 1NO-1NC	EMA70	I	45.00

*Other combinations: "Single, dual, single"; "Dual, single, dual"; "Dual, logic level, dual"

** For reversers, multiply quantities by two.

F Frame 140mm

Auxiliary Contacts per Max.	ContactType	Description	Cat. No.	Stock Code	Price \$ ex GST
2	1NO	Base auxiliary (max. 1 per side)	C320KGS41	I	46.10
2	1NO-1NC	Base auxiliary (max. 1 per side)	C320KGS42	S	54.90
6	1NO-1NC	*C320KGS41 or C320KGS42 required (max. 3 Add-on auxiliaries per side)	C320KGS20	S	35.50
2	Logic Level 1NO	*C320KGS41 or C320KGS42 required (max. 1 Add-on auxiliary per side)	C320KGS20L	I	53.50
6	1NC	*C320KGS41 or C320KGS42 required (max. 2 Add-on auxiliaries per side)	C320KGS21	S	35.50
2	Logic Level 1NC	*C320KGS41 or C320KGS42 required (max. 1 Add-on auxiliary per side)	C320KGS21L	I	53.50
2	1NO-1NC	*C320KGS41 or C320KGS42 required (max. 1 Add-on auxiliary per side)	C320KGS22	S	49.40
2	Logic Level 1NO-1NC	*C320KGS41 or C320KGS42 required (max. 1 Add-on auxiliary per side)	C320KGS22L*	I	53.50
3	Logic Level 1NO-1NC	Front Mounted Only	EMA70**	I	45.00

*Form C Contacts.

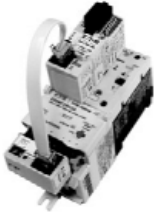
**For reversers, multiply quantities by two.

Note:

- Side Mounted: Maximum (10) total circuits.
- Front Mounted: Maximum (6) total circuits.
- Maximum 4 auxiliaries per side (base + 3 side mounted).
- EMASA/B_ have been superseded by the above Catalogue Numbers.

Motor Control

IT. IEC Contactors and Starters Accessories



IT Starter Network Adapter Product (SNAP)

Description	Cat. No.	Stock Code	Price \$ ex GST
Device Net communication adapter for FVNR Starters	D77B-DSNAP-X1	I	460.10
Ethernet/Modbus communication adapter for FVNR Starters	D77B-QSNAP-X1	I	422.70

IT 24VDC Power Supply

Description	Cat. No.	Stock Code	Price \$ ex GST
240VAC-24VDC Power Supply	PSS25E	S	139.10
415VAC-24VDC Power Supply	PSS25F	I	160.50

IT Reversing Mounting Plates

Frame Size	Cat. No.	Stock Code	Price \$ ex GST
B – C	EMA9B	I	25.00
D	EMA9D	I	30.00
E	EMA9E	I	40.00



IT Reversing Kits

Frame Size	Description	Cat. No.	Stock Code	Price \$ ex GST
B	For Contactor and Starter*	EMRKT B	I	294.00
C	For Contactor and Starter*	EMRKT C	I	321.00
D	For Contactor and Starter*	EMRKT D	I	347.00
E	For Contactor and Starter*	EMRKT E	I	374.00
F	For Contactor**	EMRKT F	I	957.70

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

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

IT Mechanical Interlock

Frame Size*	Cat. No.	Stock Code	Price \$ ex GST
B – E	EMMB	I	160.50
F**	C321KM50	I	60.80

*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



2

IEC 2-Wire Reversing Interface

Description	Cat. No.	Stock Code	Price \$ ex GST
8-Pin for 45 – 140 mm (IT 6A – 420A Reversing Starters)	EMA2WR8	I	95.00
8-Pin for 45 – 105 mm (IT 18A – 200A Reversing Contactors)			

No. of Pins	Terminal Markings	IEC Size	Coil Controller		Contactor		Overload		Starter		Cat. No.	Stock Code	Price \$ Ex GST
			Nonreversing	Reversing	Nonreversing	Reversing	Nonreversing	Reversing	Nonreversing	Reversing			
8	..+PFR123	A						X		X	EMA76L	I	25.00
		B		X		X	X	X	X	X			
		C		X		X	X	X	X	X			
		D	X	X	X	X	X	X	X	X			
		E	X	X	X	X	X	X	X	X			
		F					X	X	X	X			
5	..+PFR	F		X	X	X					EMA77L	I	35.00
5	RFP+-	F	X	X		X		X		X	EMA77LR	I	20.00
4	..+PF	A			X						EMA78L	I	35.00
		B	X		X								
		C	X		X								
6	..+PF1A	A					X			X	EMA81*	I	25.00
(2) 5	..+PFR and RFP+-	F				X				X	EMA80L**	I	60.00

*Non-locking.

**Consists of (1) EMA77L and (1) EMA77LR inter-wired.

Motor Control

Variable Speed Drives



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

2

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	375.00
NFXF50A0-2	NFX9000 DRIVE 240V 0.37kW CT IP20	1	0.37	2.5	0.37	2.5	S	410.00
NFX001A0-2	NFX9000 DRIVE 240V 0.75kW CT IP20	1	0.75	4.2	0.75	4.2	S	450.00
NFX002A0-2	NFX9000 DRIVE 240V 1.5kW CT IP201	1.5	7	1.5	7	I	525.00	



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	525.00
MVX001A0-2	MVX9000 DRIVE 240V 0.75kW CT IP20	1	0.75	5	0.75	5	I	575.00
MVX002A0-2	MVX9000 DRIVE 240V 1.5kW CT IP20	1	1.5	7	1.5	7	S	650.00
MVX003A0-2	MVX9000 DRIVE 240V 2.2kW CT IP20	2	2.2	10	2.2	10	S	895.00

3-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	525.00
MVX001A0-2	MVX9000 DRIVE 240V 0.75kW CT IP20	1	0.75	5	0.75	5	I	575.00
MVX002A0-2	MVX9000 DRIVE 240V 1.5kW CT IP20	1	1.5	7	1.5	7	I	650.00
MVX003A0-2	MVX9000 DRIVE 240V 2.2kW CT IP20	2	2.2	10	2.2	10	I	895.00
MVX005A0-2	MVX9000 DRIVE 240V 3.7kW CT IP20	2	3.7	17	3.7	17	I	995.00
MVX007A0-2	MVX9000 DRIVE 240V 5.5kW CT IP20	2	5.5	25	5.5	25	I	1,595.00

Motor Control

Variable Speed Drives



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

Part Number	Description	Frame size	High overload P [kW]	(H)	Low overload P [kW]	(L)	Stock Code	Price \$ Ex. GST
MXV001A0-4	MXV9000 DRIVE 415V 0.75kW CT IP20	1	0.75	3	0.75	3	S	675.00
MXV002A0-4	MXV9000 DRIVE 415V 1.5kW CT IP20	1	1.5	4	1.5	4	S	795.00
MXV003A0-4	MXV9000 DRIVE 415V 2.2kW CT IP20	1	2.2	5	2.2	5	S	925.00
MXV005A0-4	MXV9000 DRIVE 415V 3.7kW CT IP20	2	3.7	8.2	3.7	8.2	S	1,175.00
MXV007A0-4	MXV9000 DRIVE 415V 5.5kW CT IP20	2	5.5	13	5.5	13	S	1,725.00
MXV010A0-4	MXV9000 DRIVE 415V 7.5kW CT IP20	2	7.5	18	7.5	18	S	1,950.00

Options & accessories

Part Number	Description	Stock Code	Price \$ Ex. GST
MXVCOPY	MXV9000 COPY/PASTE KEYPAD	S	175.00
MXVKPD	MXV9000 STANDARD KEYPAD	I	175.00
MXVRM	MXV9000 KEYPAD REMOTE MOUNT KIT	S	50.00
MXXEIO	MXV9000 EXTENSION I/O	I	95.00
MXVDR	MXV9000 DIN RAIL MOUNT KIT	S	20.00
MXVDN	MXV9000 DEVICENET COMMS MODULE	I	375.00
MXXENCS	MXV9000 IP21 ENCLOSURE FR1	I	385.00
MXXENCL	MXV9000 IP21 ENCLOSURE FR2	I	395.00

Braking Resistors & Braking Units - 115V Series

Part Number	App. Motor KW	Resistor QTY.	Resistance & Wattage	Braking Torque	Full Load	Stock Code	Price \$ Ex. GST
K13-000034-0821	0.20	1	80W 200 ohm	220%	.108	I	POA
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

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

Braking Resistors & Braking Units - 575V Series

Part Number	App. Motor KW	Resistor QTY.	Resistance & Wattage	Braking Torque	Full Load	Stock Code	Price \$ Ex. GST
K13-000034-0851	0.75	1	300W 400 ohm	125%	.427	I	POA
K13-000034-0851	1.5	1	300W 400 ohm	125%	.849	I	POA
K13-000034-0852	2.2	-	600W 200 ohm	125%	1.262	I	POA
K13-000034-0852	3.7	-	600W 200 ohm	125%	2.080	I	POA
K13-000034-0852	5.5	-	600W 200 ohm	125%	3.111	I	POA
K13-000034-0853	7.5	-	2000W 100 ohm	125%	4.148	I	POA

3% Line Reactors, 1-phase

Description	Part Number	Stock Code	Price \$ Exc. GST
0.37kW, 240V	K64-000988-8091		POA
0.75kW, 240V	K64-000988-0120		POA
1.5kW, 240V	K64-000988-0180		POA
2.2kW, 240V	K64-000988-0250		POA

3% Line Reactors, 3-phase

Description	Part Number	Stock Code	Price \$ Exc. GST
0.75kW, 480V	K64-000989-2091		POA
1.5kW, 480V	K64-000989-4091		POA
2.2kW, 480V	K64-000989-4091		POA
3.7kW, 480V	K64-000989-8091		POA
5.5kW, 480V	K64-000989-0180		POA
7.5kW, 480V	K64-000989-0250		POA
0.37kW, 240V	K64-000988-2091		POA
0.75kW, 240V	K64-000988-4091		POA
1.5kW, 240V	K64-000988-8091		POA
2.2kW, 240V	K64-000988-0120		POA
3.7kW, 240V	K64-000988-0180		POA
5.5kW, 240V	K64-000988-0250		POA

Output Line Reactors

Description	Part Number	Stock Code	Price \$ Exc. GST
0.75kW, 480V	K64-000989-2091		POA
1.5kW, 480V	K64-000989-4091		POA
2.2kW, 480V	K64-000989-4091		POA
3.7kW, 480V	K64-000989-8091		POA
5.5kW, 480V	K64-000989-0120		POA
7.5kW, 480V	K64-000989-0180		POA

EMI Filters

Description	Part Number	Stock Code	Price \$ Exc. GST
0.75kW, 480V	K64-000989-2091		POA
1.5kW, 480V	K64-000989-4091		POA
2.2kW, 480V	K64-000989-4091		POA
3.7kW, 480V	K64-000989-8091		POA
5.5kW, 480V	K64-000989-0180		POA
7.5kW, 480V	K64-000989-0250		POA
0.37kW, 240V	K64-000988-2091		POA
0.75kW, 240V	K64-000988-4091		POA
1.5kW, 240V	K64-000988-8091		POA
2.2kW, 240V	K64-000988-0120		POA
3.7kW, 240V	K64-000988-0180		POA
5.5kW, 240V	K64-000988-0250		POA

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

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

Part Number	Description	Frame size	High overload P [kW]	I(H)	Low overload P [kW]	I(L)	Stock Code	Price \$ Exc. GST
GVX001A1-2	GVX9000 DRIVE 240V 0.75kW VT IP20	1	0.75	5	0.75	5	I	775.00
GVX002A1-2	GVX9000 DRIVE 240V 1.5kW VT IP20	1	1.5	7	1.5	7	I	850.00
GVX003A1-2	GVX9000 DRIVE 240V 2.2kW VT IP20	1	2.2	11	2.2	11	I	1,095.00
GVX005A1-2	GVX9000 DRIVE 240V 3.7kW VT IP20	1	3.7	17	3.7	17	I	1,295.00
GVX007A1-2	GVX9000 DRIVE 240V 5.5kW VT IP20	2	5.5	25	5.5	25	I	1,850.00
GVX010A1-2	GVX9000 DRIVE 240V 7.5kW VT IP20	2	7.5	33	7.5	33	I	2,295.00
GVX015A1-2	GVX9000 DRIVE 240V 11kW VT IP20	2	11	49	11	49	I	2,925.00
GVX020A1-2	GVX9000 DRIVE 240V 15kW VT IP20	3	15	65	15	65	I	3,695.00
GVX025A1-2	GVX9000 DRIVE 240V 18.5kW VT IP20	3	18.5	75	18.5	75	I	4,175.00
GVX030A1-2	GVX9000 DRIVE 240V 22kW VT IP20	3	22	90	22	90	I	4,995.00
GVX040A1-2	GVX9000 DRIVE 240V 30kW VT IP20	4	30	120	30	120	I	6,995.00
GVX050A1-2	GVX9000 DRIVE 240V 37kW VT IP20	4	37	145	37	145	I	8,750.00

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

Part Number	Description	Frame size	High overload P [kW]	I(H)	Low overload P [kW]	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	895.00
GVX002A1-4	GVX9000 DRIVE 415V 1.5kW VT IP20	1	1.5	4.2	1.5	4.2	I	995.00
GVX003A1-4	GVX9000 DRIVE 415V 2.2kW VT IP20	1	2.2	5.5	2.2	5.5	I	1,195.00
GVX005A1-4	GVX9000 DRIVE 415V 3.7kW VT IP20	1	3.7	8.5	3.7	8.5	I	1,395.00
GVX007A1-4	GVX9000 DRIVE 415V 5.5kW VT IP20	2	5.5	13	7.5	18	S	1,895.00
GVX010A1-4	GVX9000 DRIVE 415V 7.5kW VT IP20	2	7.5	18	11	24	S	2,395.00
GVX015A1-4	GVX9000 DRIVE 415V 11kW VT IP20	2	11	24	15	32	S	2,995.00
GVX020A1-4	GVX9000 DRIVE 415V 15kW VT IP20	3	15	32	18.5	38	S	3,695.00
GVX025A1-4	GVX9000 DRIVE 415V 18.5kW VT IP20	3	18.5	38	22	45	S	4,395.00
GVX030A1-4	GVX9000 DRIVE 415V 22kW VT IP20	3	22	45	30	60	S	4,995.00
GVX040A1-4	GVX9000 DRIVE 415V 30kW VT IP20	4	30	60	37	73	S	6,095.00
GVX050A1-4	GVX9000 DRIVE 415V 37kW VT IP20	4	37	73	45	91	S	7,095.00
GVX060A1-4	GVX9000 DRIVE 415V 45kW VT IP20	4	45	91	55	110	S	8,095.00
GVX075A1-4	GVX9000 DRIVE 415V 55kW VT IP20	5	55	110	75	150	I	9,095.00
GVX100A1-4	GVX9000 DRIVE 415V 90kW VT IP20	5	75	150	90	180	I	11,095.00

Options & accessories

Part Number	Description	Frame size	High overload P [kW]	I(H)	Low overload P [kW]	I(L)	Stock Code	Price \$ Exc. GST
GVXKPD	GVX9000 COPY/PASTE KEYPAD						S	250.00
GVXRM	GVX9000 KEYPAD REMOTE MOUNT KIT						S	30.00
GVXPG	GVX9000 ENCODER FEEDBACK CARD						S	150.00
GVXDN	GVX9000 DEVICENET COMMS CARD						I	375.00
GVXPB	GVX9000 PROFIBUS COMMS CARD						I	650.00
GVXLON	GVX9000 LONWORKS COMMS CARD						I	595.00
GBM2022	GVX9000 240V BRAKING UNIT						I	795.00
GBM4045	GVX9000 415V BRAKING UNIT						I	995.00

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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