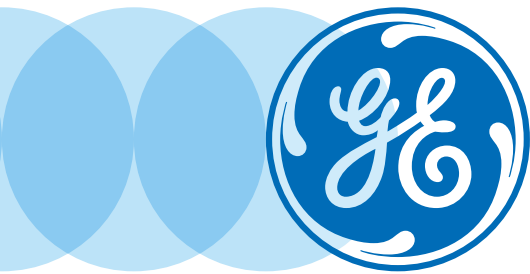




GE Fastrac™ Program— MCC Units Quick Selection Guide



This Quick Selection Guide covers Control Center starters and feeders, including full and reduced voltage, reversing and nonreversing, two-speed single and dual winding starters, in sizes 1-5. It also covers EVOLUTION SERIES E9000™ Sections. For other units, see the Engineered Products Catalog, Section 10.

- Evolution E9000
- CR8000
- Spectra

Motor Control Starter Units

For each of the following steps, find the option—MCC type, starter type, size, disconnect, control power, pilot lights, etc.— that meets the need. Transfer the corresponding product number digit(s) to the product number box(es).

When you have finished, you will have built a complete product number.

1 Select Motor Control Center Type

Select motor control center type. Transfer the product number digits to the box marked **1** in the product number line.

MCC Type	Product Number Digits
Evolution E9000	E
CR8000	M
Spectra	S

2 Select Starter Type and Size

Find the starter type required. Transfer the product number digits to the boxes marked **2** in the product number.

Starter Type	Size	Product Number Digits
FVNR	1	H1 ¹
	1	A1
	2	A2
	3	A3
	4	A4
FVR	5	A5
	1	B1
	2	B2
	3	B3
	4	B4
2S1W	1	C1
	2	C2
	3	C3
	4	C4
2S2W	1	D1
	2	D2
	3	D3
	4	D4
RVAT	2	E2
	3	E3
	4	E4
RV Solid State	5	E5
	1	F1
	2	F2
Variable Frequency Drives Constant Torque G11	Size 1 (1/2 to 10HP)	G1
	Size 2 (15 to 25HP)	G2
	Size 3 (30HP)	G3
Variable Speed Drives Variable Torque P11	Size 1 (1/2 to 10HP)	P1
	Size 2 (15 to 25HP)	P2
	Size 3 (30HP)	P3

¹ H1 is a 6" 10HP compact starter, Evolution E9000 only.

All Fastrac units have the following as standard:

- A. NEMA 12 gasketing, except SS Starter & VFDs
- B. Isolated N.O. overload alarm contact (not wired to TB)
- C. Aux. contacts wired to the TB as noted below:
 - FVNR & RVNR Starters – (1) N.O. (1) N.C.
 - FVR & 2S Starters – (1) N.O. per contactor

VFD

Size	Horsepower	Size	Horsepower
Size 1	1/2	Size 1	7 1/2
	3/4		10
	1	Size 2	15
	1 1/2		20
	2		25
	Size 3	3	Size 3
5			

3 Select Starter Disconnect

Use the first table to identify desired disconnect device. (Note that these are for basic applications; see publication GET-6728 for CR8000 / Spectra or DET-291 for Evolution E9000 for more information.) Then, from the second table select starter disconnect. Transfer the product number digit to the box marked **3** in the product number H1 is selected in step **2**, product number digits U or W must be selected.

Starter Size	Mag Only Circuit Breaker	Thermal Mag Circuit Breaker	Short Circuit Rating		
			230V	460V	575V
1, 2, 3	TEC	THED	25	25	22
	Spectra - 65k	Spectra - 65k	65	65	25
	Spectra - 100k	Spectra - 100k	100	100	-
	TECL	THEDL	-	-	100
4	TEC	THFK	25	25	18
	Spectra - 65k	Spectra - 65k	65	65	25
	Spectra - 100k	Spectra - 100k	100	100	-
5	Spectra-65K	Spectra-65K	65	65	65
	Spectra-100K	Spectra-100K	100	100	100

Disconnect Device	Product Number Digit	Starter Size				
		1	2	3	4	5
TECL	F					
FSW-R	C					
THFK	G					
TEC	M					
FSW-J2	R					
THEDL	S					
Spectra™ - 65 Mag Only ¹	U					
Spectra™ - 100 Mag Only	V					
Spectra™ - 65 Thermal Mag ¹	W					
Spectra™ - 100 Thermal Mag	X					

¹25KAIC @ 575V.

²J time delay.

4 Select Control Power

Standard control power transformer (CPT) ratings are adequate to handle the starter-coil current and three pilot lights. If additional burdens are expected, larger transformers should be specified from among those shown in the first table below. From the second table below, select the control power desired. Transfer the product number digit to the box marked 4 in the product number line.

If H1 is selected in Step 2, product number digits 1 or 5 must be selected. Product number digit 1 is for 100VA CPT.

Starter Type and Size	CPT Std. VA	Oversize VA
All Size 1	60	150
All Size 2	150	—
All Size 3	300	—
All Size 4	300	—
All Size 5	100	—

Control Power (120 Vac)	Product Number Digit	Starter Size				
		1	2	3	4	5
Std. CPT	1					
Oversize	2					
Line-to-Line	4					
Common/ Separate Source	5					

5 Select Pilot Devices

Select pilot devices desired by starter type. See Pilot Devices table below. Transfer the product number digits to the boxes marked 5 in the product number line. **If H1 is selected in Step 2, a pilot device with an asterisk (*) must be selected.**

Starter Type	Pilot Device	Product Number Digits
FVNR & RVAT & RVSS	NONE	NN*
	RED LGT STD	AE*
	RED LGT PUSH-TO-TEST (PTT)	AF
	RED/GREEN LGT STD	AS*
	RED/GREEN LGT PTT	AT
	HAND/OFF/AUTO (H/O/A) SW.	AN*
	H/O/A SW. RED LGT STD	AB*
	H/O/A SW. RED LGT PTT	AP
	H/O/A SW. R/G LGT STD	AC*
	H/O/A SW. R/G LGT PTT	AQ
	H/O/A STOP/START RED LGT STD	AD
	H/O/A STOP/START RED LGT PTT	AR
	STOP/START PB	BN*
	STOP/START PB RED LGT STD	BB*
	STOP/START PB RED LGT PTT	BP
	STOP/START PB R/G LGT STD	BC
	STOP/START PB R/G LGT PTT	BQ
	OFF/ON SW.	GN*
	OFF/ON SW. RED LGT STD	GB*
	OFF/ON SW. RED LGT PTT	GP
OFF/ON SW. R/G LGT STD	GC*	
OFF/ON SW. R/G LGT PTT	GQ	
FVR	NONE	NN
	RED/GREEN LGT STD	CE

5 Select Pilot Devices (continued)

Starter Type	Pilot Device	Product Number Digits
FVR	RED/GREEN LGT PTT	CR
	RED/AMBER LGT STD	CF
	RED/AMBER LGT PTT	CS
	R/A/G LGT STD	CG
	R/A/G LGT PTT	CT
	FWD/REV/STOP PB	CN
	FWD/REV/STOP PB R/A LGT STD	CB
	FWD/REV/STOP PB R/A LGT PTT	CP
	FWD/REV/STOP PB R/G/A LGT STD	CC
	FWD/REV/STOP PB R/G/A LGT PTT	CQ
	FWD/OFF/REV SW	DN
	FWD/OFF/REV SW RED LGT STD	DB
	FWD/OFF/REV SW RED LGT PTT	DP
	FWD/OFF/REV SW R/G LGT STD	DC
	FWD/OFF/REV SW R/G LGT PTT	DQ
2S1W & 2S2W	NONE	NN
	RED/AMBER LGT STD	EF
	RED/AMBER LGT PTT	ES
	R/A/G LGT STD	EG
	R/A/G LGT PTT	ET
	FAST/SLOW/STOP PB	EN
	FAST/SLOW/STOP PB R/A LGT STD	EB
	FAST/SLOW/STOP PB R/A LGT PTT	EP
	FAST/SLOW/STOP R/A/G LGT STD	EC
	FAST/SLOW/STOP R/A/G LGT PTT	EQ
	FAST/SLOW/OFF/AUTO (F/S/O/A) SW	FN
	F/S/O/A SW R/A LGT STD	FB
	F/S/O/A SW R/A LGT PTT	FP
	F/S/O/A SW R/A/G LGT STD	FC
	F/S/O/A SW R/A/G LGT PTT	FQ
Variable Speed Drive	Key Pad	VP
	Key Pad & Speed Adj. Pot	VQ
	Key Pad & HOA	VR
	Key Pad & Speed Adj. Pot & HOA	VS
	Key Pad & HOA & Red/Green PL	VT
	Key Pad & Speed Adj. Pot & Red/Green PL	VU
	Key Pad & Speed Adj. Pot & HOA & Red/Green PL	VW

6 Select Overload Relay

Select overload relay type. Transfer the product number digits to the box marked 6 in the product number line. **If H1 is selected in Step 2, product number digit 2 must be selected.** If G* or P* is selected in Step 2, use product number digit 1 for internal electronic overload.

Relay Type	Product Number Digit
Standard	1
Ambient Compensated	2
Solid State	3

7 Select Control Terminal Board

Select control disconnect terminal board. Transfer the product number digits to the box marked 7 in the product number line. **If H1 is selected in Step 2, product number digit H must be selected.**

Control Disconnect Terminal Board	Product Number Digit
Standard High-Density	H
Split 3-Point w/o Disconnect	N

8 Select Horsepower

Select horsepower. Transfer the product number digits to the boxes marked 8 in the product number line. **Note** that some product number digits consist of a decimal point.

Horsepower	Product Number Digits	Horsepower	Product Number Digits
1/4	.25	15	015
1/3	.33	20	020
3/8	.38	25	025
1/2	.50	30	030
3/4	.75	40	040
1	001	50	050
1 1/2	1.5	60	060
2	002	75	075
3	003	100	100
5	005	125	125
7 1/2	7.5	150	150
10	010	200	200

9 Select System Voltage

Select system voltage. Transfer the product number digit to the box marked 9 in the product number line. **If H1 is selected in Step 2, product number digits A or C must be selected.**

Voltage	Product Number Digit
480V 60 Hz	A
208V 60 Hz	B
240V 60 Hz	C
575V 60 Hz	D
380V 50 Hz	E

10 OEM Fastrac Units

Fastrac units designed for OEM use are engineered and built with the same components and layout as the standard Fastrac units.

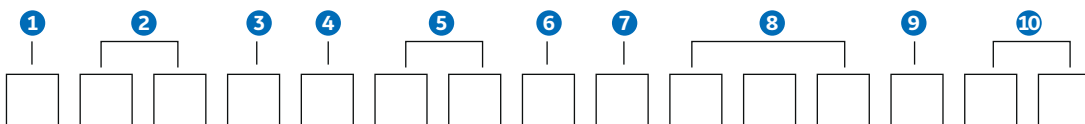
Power wiring is provided; however, to allow the maximum flexibility for OEM users, no control wiring is provided.

Product numbers are the same as the standard Fastrac units with the addition of two additional suffix letters, XX.

Example:

Standard Fastrac Unit	EA1U1AB1H010A
OEM Fastrac Unit	EA1U1AB1H010AXX

Starter Product Number



Motor Control Feeder Units

For each of the following steps, find the option—MCC type, disconnect type, amp rating, feeder devices—that meets the need. Transfer the corresponding product number digits to the product number boxes for either the standard or OEM extended feeder unit. When you have finished, you will have built a complete product number.

1 Select Motor Control Center Type

Select motor control center type. Transfer the product number digit to the box marked 1 in the product number line.

MCC Type	Product Number Digit
Evolution E9000	E
CR8000	M
Spectra	S

2 Select Feeder Disconnect Type

Select disconnect type. Transfer the product number digits to the boxes marked 2 in the product number line.

Type	Voltage	Product Number Digits
Circuit Breaker	—	FB
Fusible Switch-R	208/240V	FR
Fusible Switch-R	480/600V	FS
Fusible Switch-J	480/600V	FJ

3 Select Amp Rating

Select amp rating for either circuit breaker trip or Class R fuse. Transfer the product number digits to the boxes marked 3 in the product number line.

Amps	Product Number Digits	Amps	Product Number Digits
15	015	110	110
20	020	125	125
30	030	150	150
40	040	175	175
50	050	200	200
60	060	225	225
70	070	250	250
80	080	400	400
90	090	600	600
100	100	—	—

4 Select Feeder Device

Select feeder device from one of the following two tables. Transfer the product number digits to the boxes marked 4 in the product number line for either the standard or OEM extended feeder unit.

Standard Feeder Units

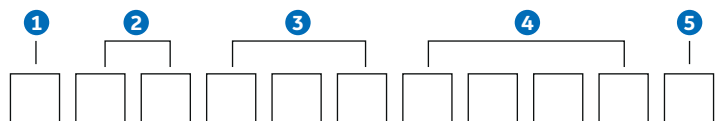
Device	Amp Rating (Max.)	Short Circuit Rating KA Volts			Unit Height (Inches)	Product Number Digits
		240	480	600		
THEDL	100	100	100	100	6	EDL6
SELT	100	65	65	25	12	SEL2
	150	65	65	25	6	SEL8
SEPT	100	100	100	N/A	6	SEP6
	100	100	100	N/A	12	SEP2
	150	100	100	N/A	6	SEP8
SFLT	250	65	65	25	12	SFLT
SFPT	250	100	100	N/A	12	SFPT
SGL4B w-LT & INST	400	100	65	65	24	GLI4
SGL4B w-LT/INST & GF	400	100	65	65	24	LIG4
SGL6B w-LT & INST	600	100	65	65	24	GLI6
SGL6B w-LT/INST & GF	600	100	65	65	24	LIG6
FSW	30	100	100	100	12	QMR3
	60	100	100	100	12	QMR6
	100	100	100	N/A	12	QMR1
	200	100	100	100	24	QMR2

5 Select System Voltage

Select system voltage. Transfer the product number digit to the box marked 5 in the product number line.

Voltage	Product Number Digit
480V 60 Hz	A
208V 60 Hz	B
240V 60 Hz	C
575V 60 Hz	D
380V 50 Hz	E

Standard Feeder Unit Product Number



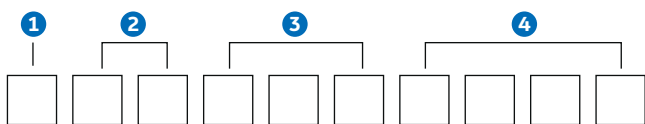
Door and Shelf Kit
6" - EK06
12" - EK12

OEM Extended Feeder Units for EVOLUTION SERIES E9000™ Only

Device	Amp Rating (Max.)	Short Circuit Rating KA Volts			Unit Height (Inches)	Product Number Digits
		240	480	600		
THED	150	30	25	18	18	THED18
					24	THED24
					30	THED30
					36	THED36
THEDL	100	100	100	100	18	TEDL18
					24	TEDL24
					30	TEDL30
					36	TEDL36
SELT	150	65	65	25	18	SELT18
					24	SELT24
					30	SELT30
					36	SELT36
SEPT	150	100	100	N/A	18	SEPT18
					24	SEPT24
					30	SEPT30
					36	SEPT36
SFLT	250	65	65	25	18	SFLT18
					24	SFLT24
					30	SFLT30
					36	SFLT36
SFPT	250	100	100	N/A	42	SFLT42
					18	SFPT18
					24	SFPT24
					30	SFPT30
SGL4B w-LT & Inst.	400	100	65	65	36	SFPT36
					42	SFPT42
					30	GLI430
					36	GLI436
SGL4B w-LT/Inst. & GF	400	100	65	65	42	GLI442
					30	LIG430
					36	LIG436
					42	LIG442
SGL6B w-LT & Inst.	600	100	65	65	30	GLI630
					36	GLI636
					42	GLI642
					30	LIG630
SGL6B w-LT/Inst. & GF	600	100	65	65	36	LIG636
					42	LIG642
					30	LIG630
					36	LIG636
					42	LIG642

¹Pre-wired Power TB provided.

OEM Extended Feeder Unit Product Number



EVOLUTION SERIES E9000™ MCC Sections

This is for selection of one to three sections of 20" deep EVOLUTION SERIES E9000™ motor control centers without units. Each section will be shipped with blank doors. The typical section will have (3) 12", (1) 24" and (2) 6" doors and shelves. For each of the following steps, find the option—short circuit rating, NEMA enclosure, etc.—that meets the need. Transfer the corresponding product number digit(s) to the corresponding product number box(es). When you have finished, you will have built a complete product number.

1 Select Short Circuit Rating

Select short circuit rating. Transfer the product number digit to the box marked **1** in the product number line.

Short Circuit Rating	Product Number Digit
25 kAIC	A
42 kAIC	B
65 kAIC	C

2 NEMA Enclosure Type

Select the enclosure type. Transfer the product number digit to the box marked **2** in the product number line.

NEMA Enclosure Type	Product Number Digit
1 Gasketed	1
12	2

3 System Voltage

Select the system voltage. Transfer the product number digit to the box marked **3** in the product number line.

System Voltage	Product Number Digit
480V 60 Hz	A
208V 60 Hz	B
240V 60 Hz	C
575V 60 Hz	D
380V 50 Hz	E

4 System Wires

Select the system wires. Transfer the product number digit to the box marked **4** in the product number line.

System Wires	Product Number Digit
3 W	4
4 W-Neutral	3

5 Bus Plating

Select the bus plating. Transfer the product number digit to the box marked **5** in the product number line.

Bus Plating	Product Number Digit
Tin	T
Silver	S

6 Main Bus Rating

Select the main bus rating. Transfer the product number digit to the box marked **6** in the product number line.

Main Bus Rating	Product Number Digit
600A	6
1200A	2

7 Ground Bus

Select the ground bus. Transfer the product number digit to the box marked **7** in the product number line.

Ground Bus	Product Number Digit
300A	3
600A	6

8 Neutral Bus

Select the neutral bus. Transfer the product number digit to the box marked **8** in the product number line.

Neutral Bus	Product Number Digit
None	0
300A	3
600A	6

9 Horizontal Wire-Way

Select the horizontal wire-way. Transfer the product number digit to the box marked **9** in the product number line.

Horizontal Wire-Way	Product Number Digit
12" Top-6" Bottom	T
12" Top-12" Bottom	B

10 Main Location

Select the location of the main. Transfer the product number digit to the box marked **10** in the product number line.

Main Location	Product Number Digit
Top Left	TL
Bottom Left	BL
Top Right	TR
Bottom Right	BR

11 Main Type

Select the type of main. Transfer the product number digits to the boxes marked 11 in the product number line.

Main Type	Product Number Digits
600A Splice	6S
1200A Splice	2S
600A MLO	6L
1200A MLO Bottom	2L
1200A MLO Top	2L
600A CB	6C
1200A CB	2C
600A Switch	6F

12 Main Circuit Breaker Trip or Main Switch Fuse

Select main circuit breaker trip or main switch fuse. Transfer the product number digit to the box marked 12 in the product number line.

Main CB or Main Switch Fuse	Product Number Digits
No Fuse	0
300A	3
400A	4
600A	6
800A	8
1000A	1
1200A	2

13 Number of Vertical Sections with Common Main Bus

Select the number of sections with common main bus. Transfer the product number digit to the box marked 13 in the product number line.

Number of Sections	Product Number Digit
One	1
Two	2
Three	3

Section Product Number

Diagram showing the Section Product Number format: **L** **E** [] [] [] [] [] [] [] [] [] [] [] [] [] [] **F**. The boxes are numbered 1 through 13 above them. Boxes 10 and 11 are connected by a bracket, and boxes 12 and 13 are connected by a bracket.