

SELECTION GUIDE

Fastrac[™] program

Motor control centers





Fastrac™ MCC unit selection guide

This document defines standard MCC starter and feeder units, including full voltage, reversing and non-reversing, two-speed single-winding and two-speed two-winding starters, in sizes 1–5.

- Evolution E9000 (compatible with ReliaGear LV MCC)
- 8000 (compatible with 2700, 7700 and Spectra LV MCC)

For additional details, see the BuyLog, Section 15: https://electrification.us.abb.com/buylog_pdf

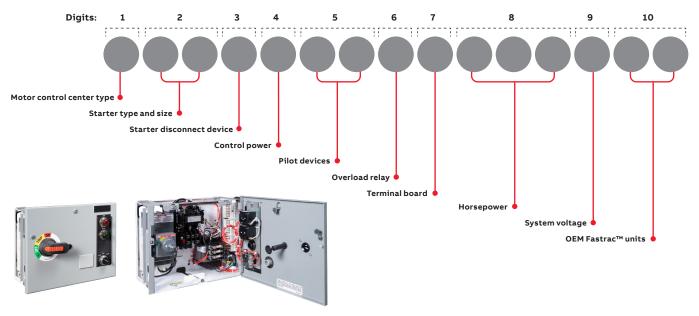
Quotations are available for other MCC units, which must be requisition engineered.





Selection of starter units

Selection product number:



Detailed use of each digit in the part number is defined below.

1 - Motor control center type

Select option value for the MCC from the table below.

MCC type	Option value
8000	M
Evolution E9000	B

2 - Starter type and size

Select the option value for the desired starter type from the table below.

Starter type	Size	Option value
FVNR	1	A 1
	2	A 2
	3	A 3
	4	A 4
	5	A 5
FVR	1	B 1
	2	B 2
	3	B 3
	4	B 4
2S1W	1	G 1
	2	G 2
	3	G 3
	4	Q4
2S2W	1	0 0
	2	02
	3	0 3
	4	D 4

Notes:

⁻ Size 5 FVNR is only available in E9000, not 8000.

3 — Starter disconnect device

Select the option value for the desired starter disconnect from the table below.

<u> </u>	Option				Starter	size
Disconnect device	value	1	2	3	4	5
FSW-R	(3	•	•	•		
FSW-J	R	•	•	•		
Spectra – 65 mag only	0	•	•	•	•	•
Spectra – 100 mag only	V	•	•	•	•	•
Spectra – 65 thermal mag	w	•	•	•	•	•
Spectra – 100 thermal mag	Ø	•	•	•	•	•
Tmax® XT2H – 65 TMA/F or Ekip I	0	•	•	•		
Tmax® XT2L – 100 TMA/F or Ekip I	0	•	•	•		
Tmax® XT2N – 65 TMA/F	2	•	•	•		
Tmax® XT2S – 100 TMA/F	3	•	•	•		
Tmax® XT4H – 65 TMA	4				•	
Tmax® XT4L – 100 TMA	5				•	
Tmax® XT4N – 65 TMA	6				•	
Tmax® XT4S – 100 TMA	7				•	

Notes

- FSW (fusible switch) options are available for 8000 and E9000 up to 200 A
- Spectra circuit breaker options are only available for E9000, not 8000
- Tmax® XT circuit breaker options are only available for 8000, not E9000
- Spectra 65 is only rated to 25 kIA at 575 V
- Ekip I breakers only offered through Fastrac program for limited HPs, in size 1 applications

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4 — 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.

Starter size	CPT minimum VA	Oversize VA
1	60	150
2	150	-
3	300	-
4	300	-
5	100	-

Notes

- Size 5 starter only available for E9000, not 8000
- For 380 V units, all CPTs rated at 250 VA

Control power	Option				Starte	size
(120 VAC)	value	1	2	3	4	5
Standard CPT	1	•	•	•	•	
Common / separate source	6	•	•	•	•	•

5 — Pilot devices

Select the option value for the desired pilot devices by starter type from the table below.

Starter type	Pilot device	Option value
FVNR	None	NN
	Red light standard	0 E
	Red light push-to-test	06
	Red/green light standard	06
	Red/green light push-to-test	00
	HOA switch	AN
	HOA switch, red light standard	0 8
	HOA switch, red light push-to-test	O P
	HOA switch, red/green light standard	00
	HOA switch, red/green light push-to-test	00
	HOA switch, start/stop PB, red light standard	00
	HOA switch, start/stop PB, red light push-to-test	0 R
	Start/stop PB	BN
	Start/stop PB, red light standard	P B
	Start/stop PB, red light push-to-test	P C
	Start/stop PB, red/green light standard	P G
	Start/stop PB, red/green light push-to-test	P 0
	On/off switch	G N
	On/off switch, red light standard	0 B
	On/off switch, red light push-to-test	0 6
-	On/off switch, red/green light standard	0 0
	On/off switch, red/green light push-to-test	00
FVR	None	NN
	Red/green light standard	0 E
	Red/green light push-to-test	Q R
	Red/amber light standard	Q E
	Red/amber light push-to-test	Q S
	Red/amber/green light standard	0 0
	Red/amber/green light push-to-test	00
	Forward/rev/stop PB	OO
	Forward/rev/stop PB, red/amber light standard	0 B
	Forward/rev/stop PB, red/amber light push-to-test	00
	Forward/rev/stop PB, red/amber/	00
-	green light standard	
	Forward/rev/stop PB, red/amber/ green light push-to-test	00
	Forward/off/rev switch	O N
	Forward/off/rev switch, red light standard	R B
	Forward/off/rev switch, red light push-to-test	R P
	Forward/off/rev switch, red/green light standard	R G
	Forward/off/rev switch, red/ green light push-to-test	R Q

Selection of starter units

5 – Pilot devices (cont.)

Starter type	Pilot device	Option value
2S1W or	None	00
2S2W	Red/amber light standard	S F
	Red/amber light push-to-test	5 5
	Red/amber/green light standard	5 6
	Red/amber/green light push-to-test	90
	Fast/slow/stop PB	B N
	Fast/slow/stop PB, red/amber light standard	S B
	Fast/slow/stop PB, red/amber light push-to-test	S P
	Fast/slow/stop PB, red/amber/green light standard	5 G
	Fast/slow/stop PB, red/amber/ green light push-to-test	50
	Fast/slow/off/auto switch	F N
	Fast/slow/off/auto switch, red/amber light standard	00
	Fast/slow/off/auto switch, red/amber light push-to-test	00
	Fast/slow/off/auto switch, red/amber/green light standard	00
	Fast/slow/off/auto switch, red/amber/green light push-to-test	00

Notes:

- All control devices, including lights, pushbuttons and switches are ABB A3 devices.
- All lights are LED devices.

6 – Overload relay

Select overload relay option value from the table blow.

Relay type	Option value
Standard	0
Ambient-compensated	2
Solid-state	3

7 - Terminal board

Select control disconnect terminal board option value from the table below.

Control disconnect terminal board	Option value
Standard high-density	Н

8 – Horsepower

Select horsepower option value from the table below. Note that some product number digits consist of a decimal point.

Horsepower	Option value	Horsepower	Option value
1/4	025	15	015
1/3	000	20	020
3/8	038	25	025
1/2	050	30	080
3/4	005	40	040
1	000	50	050
1½	002	60	060
2	002	75	005
3	003	100	000
5	005	125	025
71/2	7 0 5	150	000
10	000	200	200

Note:

14, 13, 18, 125 HP, 150 HP and 200 HP are only available for E9000, not 8000.

9 – System voltage

Select system voltage option value from the table below.

Voltage	Option value
480 V, 60 Hz	A
208 V, 60 Hz	В
240 V, 60 Hz	G
575 V, 60 Hz	0
380 V, 50 Hz	G

Note:

If a Tmax $^{\odot}$ XT circuit breaker is selected for 8000 in step 3, option D above is not available.

10 - OEM Fastrac™ units

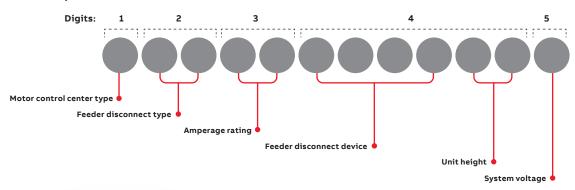
Fastrac units designed for OEM use are engineered and built with the same components and layout as the standard Fastrac units. Power wiring is provided. However, to allow the maximum flexibility for OEM users, no control wiring is provided.

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

Example		
Standard Fastrac unit	EA1U1AB1H010A	
OEM Fastrac unit	EA1U1AB1H010AXX	

Selection of feeder units

Selection product number:







Detailed use of each digit in the part number is defined below.

For FSW feeders, optional heights are not available. Omit the 4A digits in the part number.

1 - Motor control center type

Select option value for the MCC from the table below.

MCC type	Option valu		
8000	M		
Evolution E9000	E		

2 – Feeder disconnect type

Select the option value for the desired disconnect type from the table below.

Туре	Voltage	Option value
Circuit breaker	All	6 B
Fusible switch – R	208/240 V	6 8
Fusible switch – R	480/600 V	66
Fusible switch – J	480/600 V	90

3 – Amperage rating

Select option value for the desired amperage rating from the table below.

Amperage rating	Option value	Amperage rating	Option value
15	015	80	080
20	020	90	090
25	025	100	100
30	030	110	000
35	086	125	025
40	040	150	160
45	045	175	006
50	050	200	200
60	060	225	225
70	000	250	250

Notes

- For fusible switches, only amperage ratings up to 200 A are available.
- Amperage rating of 45 A is only available in E9000, not 8000.

Selection of feeder units

4 - Feeder disconnect device

Select option value for the desired feeder device from the table below.

	Maximum Short circuit rating in kA			Min.		
Device	amperage rating	at 240 V	at 480 V	at 600 V	height (inches)	Option value
FSW	30	100	100	100	6	0 M R 3
	60	100	100	100	6	Q M R 6
	100	100	100	-	12	0 M R 1
	200	100	100	100	24	0 M R 2
SELT	150	65	65	25	6	9900
SEPT	150	100	100	-	6	9 B P O
SFLT	250	65	65	25	12	9900
SFPT	250	100	100	-	12	S P P T
	125	100	-	-	6	8025
XT2		65	-	-	6	X T 2 N
	_	-	100	-	6	8020
	_	-	65	-	6	802B
Tmax® XT4	250	100	-	-	6	804
	_	65	-	-	6	804 N
		n/a	100	-	6	8040
		n/a	65	-	6	X T 4 H

- QMR heights in table are for 8000. For E9000, height is 12" up to 60 A,
- 24" for up to 100 A and 30" for up to 200 A.
- Spectra circuit breaker options are only available for E9000.
- Tmax® XT circuit breaker options are only available for 8000.
- Note: Minimum height for Tmax® XT up to 125 A is 6". Above 125 A, minimum height is 18".

4A - Unit height

Select the option value for optional feeder height from the table below.

Height in inches	Option value
6	06
12	0 2
18	18
24	24
30	3 0
36	3 6
42	42
48	48

- For Spectra feeders rated to 150 A, optional heights up to 36" are available.

 For Spectra feeders up to 250 A, optional heights up to 42" are available.

 For Tmax® XT2 feeders, optional heights up to 36" are available.

 For Tmax® XT4 feeders, optional heights up to 48" are available.

- For FSW feeders, optional heights are not available. Omit the 4A digits in the part number.

5 – System voltage

Select system voltage option value from the table below.

Voltage	Option value
480 V, 60 Hz	A
208 V, 60 Hz	В
240 V, 60 Hz	G
575 V, 60 Hz	0
380 V, 50 Hz	E

Notes:

- If a Tmax® XT circuit breaker is selected for 8000 in step 3, option D above is not available.

Door and shelf filler kits

Door and shelf filler kits

Product line	Height (inches)	Part number
8000	6	204B4145AMG1
	12	204B4145AMG2
	18	204B4145AMG3
	24	204B4145AMG4
	30	204B4145AMG5
	36	204B4145AMG6
	42	204B4145AMG7
	48	204B4145AMG8
E9000	6	EK06
	12	EK12

Notes





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https://electrification.us.abb.com/services

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