

Upgrade Solution



What is a Mentor II ?

The Mentor II series was a DC variable speed motor control manufactured by Control Techniques from the early 1990's until approximately late 2010. It had an output range of 3 to 1000HP. The drive came in 1 and 4 quadrant configurations. The standard models accepted a 3-phase input of 208, 240, 380, 415, or 480 VAC. Higher voltage units were also produced for 525 and 660V supplies.

[Click drive for Mentor II Info](#)

[Download the Mentor II Manual Conversion Guidance –see next page](#)

What replaces the Mentor II ?

The Mentor MP replaces the Mentor II in most all applications. The Mentor MP offers many more internal features over the Mentor II. The MP offers much more application flexibility and fieldbus interconnectivity options. The Mentor MP series can be configured from your PC using CTSOft. The software is free and is available on our website for download.

To obtain the software for the Mentor MP click

[CT Soft – Drive Configuration Tool](#)

[CT Scope - 4 Channel Soft Scope](#)



[Communications Cables](#)

[Mentor MP Manual](#)



[Click here for Mentor MP Information](#)

Questions/Concerns about your application?

Call us at the Service Center

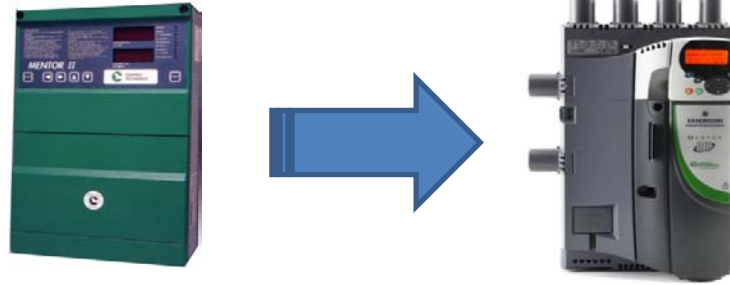
1-800-367-8067

or

Email us by clicking → [Technical Support](#)

Mentor II to Mentor MP Crossover

230V AC Input
240V Armature 150V Field



Order Codes		Mentor II			Mentor MP		
HP	Output A	Frame	Non Regen	Regen Order	Non Regen	Regen Order	Frame
			Order Code	Code	Order Code	Code	
7.5	25	1A	M25-14M	M25R-14M	MP25A4-xxx	MP25A4R-xxx	1A
15	45	1A	M45-14M	M45R-14M	MP45A4-xxx	MP45A4R-xxx	1A
20	75	1A	M75-14M	M75R-14M	MP75A4-xxx	MP75A4R-xxx	1A
30	105	1B	M105-14M	M105R-14M	MP105A4-xxx	MP105A4R-xxx	1B
45	155	1B	M155-14M	M155R-14M	MP155A4-xxx	MP155A4R-xxx	1B
60	210	1B	M210-14M	M210R-14M	MP210A4-xxx	MP210A4R-xxx	1B
100	350	2A	M350-14M	M350R-14M	MP350A4-xxx	MP350A4R-xxx	2A
125	420	2A	M420-14M	M420R-14M	MP420A4-xxx	MP420A4R-xxx	2A
150	550	2A	M550-14M	M550R-14M	MP550A4-xxx	MP550A4R-xxx	2A
200	700	2B	M700-14M	M700R-14M	MP700A4-xxx	MP700A4R-xxx	2B
250	825	2B	M825-14M	M825R-14M	MP825A4-xxx	MP825A4R-xxx	2B
275	900	2C	M900-14M		MP900A4-xxx		2B
		2D		M900R-14M		MP900A4R-xxx	2B
375	1250	2C	M1250-14M		MP1250A4-xxx		2C
		2D		M1250-14M		MP1250A4R-xxx	2D
575	1850	2C	M1850-14M		MP1850A4-xxx		2C
		2D		M1850-14M		MP1850A4R-xxx	2D

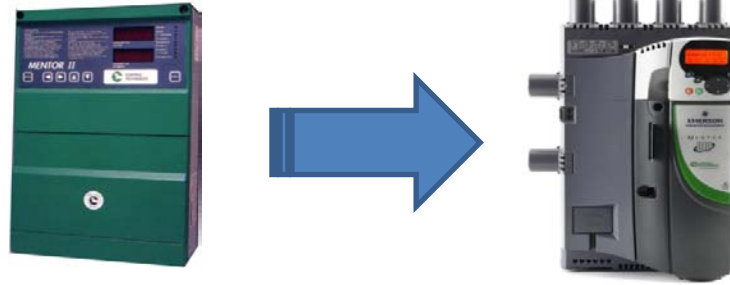
Dimensions: (in)		Mentor II	Mentor MP
Frame	H x W x D	H x W x D	H x W x D
	1A	14.6 x 9.8 x 5.9	14.7 x 9.8 x 8.7
	1B	14.6 x 9.8 x 7.8	14.7 x 9.8 x 9.9
	2A	15.9 x 17.7 x 11	16.6 x 17.7 x 11.9
	2B	16.6 x 17.7 x 11	16.6 x 17.7 x 11.9
	2C	41 x 18 x 20.1	41.1 x 17.7 x 20.1
	2D	61 x 18 x 20.1	59.3 x 17.7 x 20.1

Notes:

- *MP Order Code -xxx indicates Keypad option - LED, LCD or NKP
- *LCD keypad is not compatible with SM-Ethernet
- *MP accepts SM modules as Unidrive SP except SM-Resolver, SM-CAN, SM-Sercos, SM-EZMotion, SM-Applications and SM-Applications Lite, use SM-Applications Plus and SM-Apps Lite V2
- *MP PC Configuration software is CTSOft
- *MP includes power terminal covers not shown in the dimension chart above
- *Mounting feet are identical, MP is a deeper product to accommodate SM modules

Mentor II to Mentor MP Crossover

460V AC Input
500V Armature 300V Field



Order Codes		Mentor II			Mentor MP		
HP	Output A	Frame	Non Regen	Regen Order	Non Regen	Regen Order	Frame
			Order Code	Code	Order Code	Code	
15	25	1A	M25-14M	M25R-14M	MP25A4-xxx	MP25A4R-xxx	1A
25	45	1A	M45-14M	M45R-14M	MP45A4-xxx	MP45A4R-xxx	1A
45	75	1A	M75-14M	M75R-14M	MP75A4-xxx	MP75A4R-xxx	1A
60	105	1B	M105-14M	M105R-14M	MP105A4-xxx	MP105A4R-xxx	1B
90	155	1B	M155-14M	M155R-14M	MP155A4-xxx	MP155A4R-xxx	1B
125	210	1B	M210-14M	M210R-14M	MP210A4-xxx	MP210A4R-xxx	1B
200	350	2A	M350-14M	M350R-14M	MP350A4-xxx	MP350A4R-xxx	2A
250	420	2A	M420-14M	M420R-14M	MP420A4-xxx	MP420A4R-xxx	2A
300	550	2A	M550-14M	M550R-14M	MP550A4-xxx	MP550A4R-xxx	2A
400	700	2B	M700-14M	M700R-14M	MP700A4-xxx	MP700A4R-xxx	2B
500	825	2B	M825-14M	M825R-14M	MP825A4-xxx	MP825A4R-xxx	2B
550	900	2C	M900-14M		MP900A4-xxx		2B
		2D		M900R-14M		MP900A4R-xxx	2B
750	1250	2C	M1250-14M		MP1250A4-xxx		2C
		2D		M1250-14M		MP1250A4R-xxx	2D
1150	1850	2C	M1850-14M		MP1850A4-xxx		2C
		2D		M1850-14M		MP1850A4R-xxx	2D

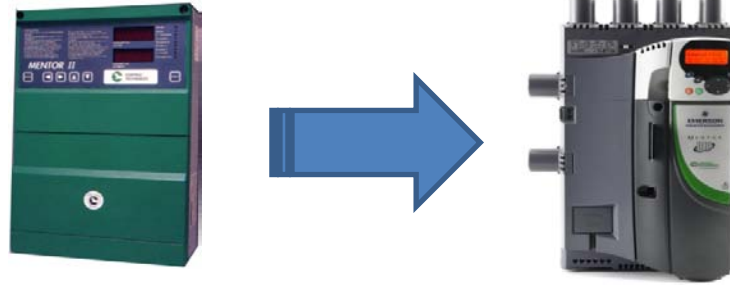
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- *MP PC Configuration software is CTSOft
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Mentor II to Mentor MP Crossover

575V AC Input
630V Armature 300V Field



Order Codes		Mentor II		Mentor MP			
HP	Output A	Non Regen Frame	Regen Order Code	Regen Order Code	Non Regen Order Code	Regen Order Code	Frame
15	25	Not available			MP25A5-xxx	MP25A5R-xxx	1A
30	45				MP45A5-xxx	MP45A5R-xxx	1A
50	75				MP75A5-xxx	MP75A5R-xxx	1A
75	105				MP105A5-xxx	MP105A5R-xxx	1B
100	155				MP155A5-xxx	MP155A5R-xxx	1B
125	210				MP210A5-xxx	MP210A5R-xxx	1B
250	350				MP350A5-xxx	MP350A5R-xxx	2A
325	470				MP470A5-xxx	MP470A5R-xxx	2A
500	700				MP700A5-xxx	MP700A5R-xxx	2B
600	825				MP825A5-xxx	MP825A5R-xxx	2B
900	1250				MP1250A5-xxx		2C
						MP1250A5R-xxx	2D
1450	1850				MP1850A5-xxx		2C
						MP1850A5R-xxx	2D

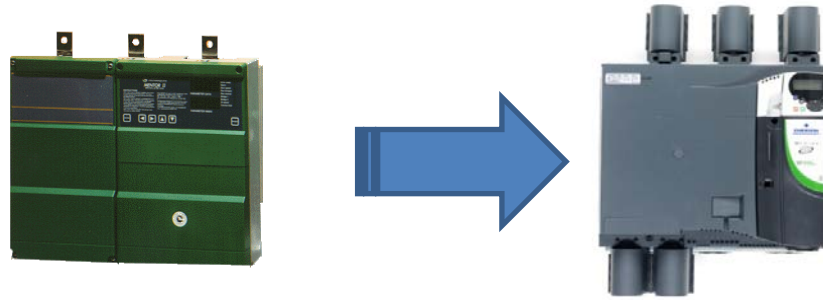
Dimensions: (in)		Mentor II	Mentor MP
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Mentor II to Mentor MP Crossover

690V AC Input
760V Armature 300V Field



Order Codes		Mentor II			Mentor MP		
HP	Output A	Non Regen		Regen Order	Non Regen		Regen Order
		Frame	Order Code	Code	Order Code	Code	Frame
300	350	2A	M350-20C660	M350R-20C660	MP350A6-xxx	MP350A6R-xxx	2A
375	420	2A	M420-20C660	M420R-20C660	MP470A6-xxx	MP470A6R-xxx	2A
425	470	Not available					
500	550	2B	M550-20C660	M550R-20C660	MP700A6-xxx	MP700A6R-xxx	2B
625	700	2B	M700-20C660	M700R-20C660			
750	825	2B	M825-20C660	M825R-20C660			
825	900	2C	M900-20C660		MP1250A6-xxx	MP1250A6R-xxx	2C
		2D		M900R-20C660			2D
1150	1250	2C	M1250-20C660		MP1250A6-xxx	MP1250A6R-xxx	2C
		2D		M1250-20C660			2D
1750	1850	2C	M1850-20C660		MP1850A6-xxx	MP1850A6R-xxx	2C
		2D		M1850-20C660			2D

Dimensions: (in)		Mentor II	Mentor MP
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