

Upgrade Solution



What is a Quantum III ?

The Quantum III series was a microprocessor based DC variable speed motor control introduced by Control Techniques-Americas in 1993. It had an output range of 3 to 1000HP. The drive came in regenerative and non-regenerative configurations. It accepted a 3-phase input of 208, 240, 380, 415, or 480VAC.

[Quantum III Manual](#)

[Conversion Guidance \(see next pages \)](#)

Click photo for Quantum III Info

What replaces the Quantum III ?

The Quantum MP replaces the Quantum III quite easily for almost all applications up to 400HP. For larger HP ratings the replacement is a packaged Mentor MP drive. The Quantum MP offers much more application flexibility and fieldbus interconnectivity. Drive software tools are free and are available on our website for download.

(There are some dimensional differences that should be verified- contact Tech Support for options)

To obtain the software for the Quantum MP click

[CT Soft – Drive Configuration Tool](#)

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

[Communications Cables](#)

[Quantum MP Manual](#)



Questions/Concerns about your application?

Call us at the Service Center

1-800-367-8067

or

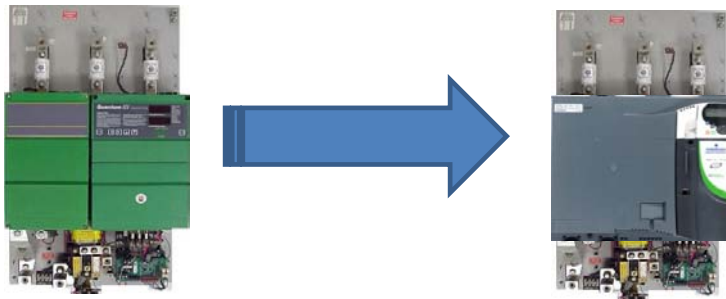
Email us by clicking → [Technical Support](#)



[Click here for Quantum MP details](#)

Quantum III to Quantum MP EZ Crossover

460V AC Input
500V DC Armature Output
300V DC Field Output



		Quantum III			Quantum MP				
HP	Output A 55°C	Frame	Non Regen Order Code	Regen Order Code	HP	Non Regen Order Code	Regen Order Code	Frame	Output A 40°C
20	38	1A	9500-8302	9500-8602	25	QMP45A4	QMP45A4R	1A	45
30	55		9500-8303	9500-8603	40	QMP75A4	QMP75A4R		75
60	106	1B	9500-8305	9500-8605	75	QMP155A4	QMP155A4R	1B	155
100	172		9500-8306	9500-8606	125	QMP210A4	QMP210A4R		210
150	277	2A	9500-8307	9500-8607	200	QMP350A4	QMP350A4R	2A	350
200	338		9500-8308	9500-8608					
250	428	2B	9500-8309	9500-8609	225	QMP400A4	QMP400A4R	2B	400
300	508		2B	9500-8310	9500-8610	300	QMP550A4	QMP550A4R	2C
400	675	9500-8311		9500-8611	400	QMP700A4	QMP700A4R	700	
500	820	3	9500-8315	9500-8615	500	Contact the Systems Center for Mentor MP packaged pricing			
600	985		9500-8316	9500-8616	600				
700	1150		9500-8317	9500-8617	700				
800	1250		9500-8318	9500-8618	800				
900	1470		9500-8319	9500-8619	900				
1000	1620		9500-8320	9500-8620	1000				

Dimensions: (in)	Quantum III		Quantum MP	
	Frame	H x W x D	Frame	H x W x D
	1A	15 x 10 x 10.5	1A	22.6 x 13 x 8.7
	1B	15 x 10 x 12.3	1B	22.6 x 13 x 9.8
	2A	35 x 20.3 x 12	2A	35 x 20.3 x 12.9
			2B	36.8 x 20.3 x 12.9
	2B	36 x 20.3 x 14	2C	38.7 x 20.3 x 12.9

- Notes:**
- * HP provided for general guidance. Always select drive based on **MOTOR ARMATURE AMPS**
 - * The QMP400A units do not cross directly to a QIII model number
 - * QMP Order Code does not include a keypad, order separately
 - * 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
 - * QMP is rated at 40°C, Quantum III rated at 55°C
 - * QMP size 1 is wider and taller than the Quantum III

Quantum III to Quantum MP EZ Crossover



230V AC Input
240V DC Armature Output
150V DC Field Output

Quantum III					Quantum MP					
HP	Output A 55°C	Frame	Non Regen Order Code	Regen Order Code	HP	Non Regen Order Code	Regen Order Code	Frame	Output A 40°C	
10	38	1A	9500-8302	9500-8602	10	QMP45A4	QMP45A4R	1A	45	
15	55		9500-8303	9500-8603	20	QMP75A4	QMP75A4R		75	
30	106	1B	9500-8305	9500-8605	40	QMP155A4	QMP155A4R	1B	155	
50	172		9500-8306	9500-8606	60	QMP210A4	QMP210A4R		210	
75	277	2A	9500-8307	9500-8607	100	QMP350A4	QMP350A4R	2A	350	
100	338		9500-8308	9500-8608		100	QMP400A4			QMP400A4R
125	428		9500-8309	9500-8609		150	QMP550A4			QMP550A4R
150	508	2B	9500-8310	9500-8610	150	QMP550A4	QMP550A4R	2C	550	
200	675		9500-8311	9500-8611	200	QMP700A4	QMP700A4R		700	
250	820	3	9500-8315	9500-8615	250	Contact the Systems Center for Mentor MP packaged pricing				
300	985		9500-8316	9500-8616	300					
350	1150		9500-8317	9500-8617	350					
400	1250		9500-8318	9500-8618	400					
450	1470		9500-8319	9500-8619	450					
500	1620		9500-8320	9500-8620	500					

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- * Use SM-Applications Plus and SM-Apps Lite V2
- * MP PC Configuration software is CTSoft
- * QMP is rated at 40°C, Quantum III rated at 55°C
- * QMP size 1 is wider and taller than the Quantum III