Nidec Drives

5 YEAR WARRANTY

DC Drives

Enhanced motor performance and reliability

Mentor MP & Quantum MP



Nidec Drives

The ultimate DC Drive

Mentor MP

25 A to 7400 A
24 V - 480 V | 575 V | 690 V



The ultimate DC drive

As a world leader in DC drive technology, our innovative products are used in the most demanding applications requiring performance, reliability & energy efficiency.

Mentor MP integrates the control platform from the world's leading intelligent AC drive technology making it the most advanced DC drive available. With optimum performance and flexible system interfacing capability, the Mentor MP drive allows you to maximize motor performance & enhance system reliability. Interface digitally with modern control equipment using Ethernet & fieldbus networks.

It is very easy to retrofit from Mentor II.

5 YEAR WARRANTY

5-year warranty as standard*

Our Mentor series is so reliable we are confident enough to supply it with a five-year warranty as standard.

Now you can buy with the same confidence.

*Warranty terms and conditions apply.

N1652 E171230 RoHS compliant



Machine communications flexibility

Drive intelligence and system integration

Easy to set-up and commission

Nidec Drives

The packaged Mentor MP DC Drive

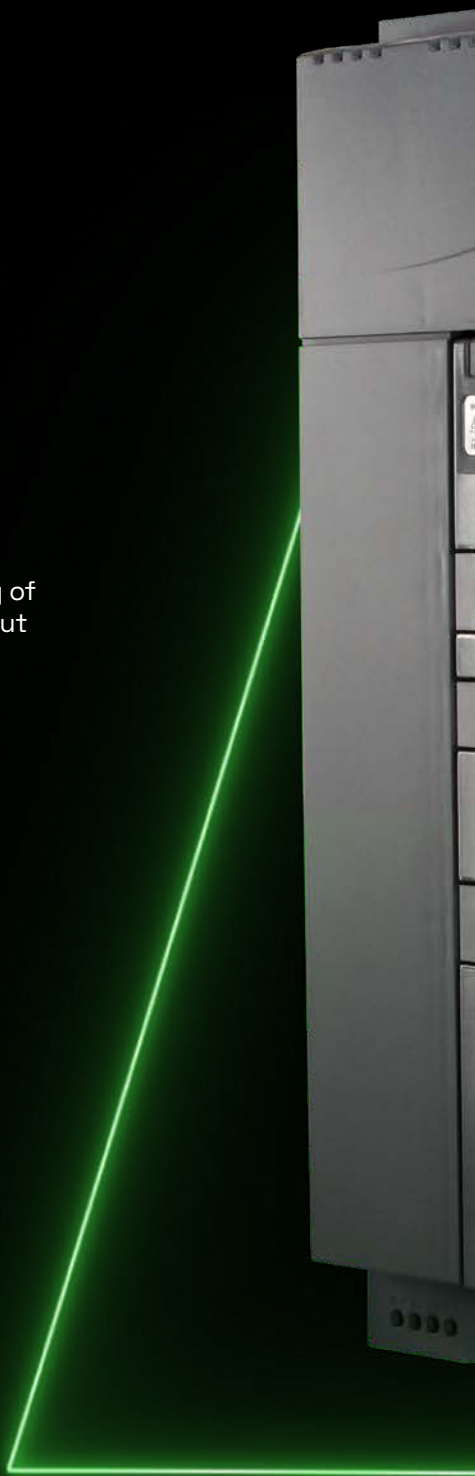
Quantum MP

45 A to 700 A (10 hp to 400 hp)
208 V - 480 V

The ultimate DC drive package

The Quantum MP is a packaged Mentor MP that integrates the control functionality of the Mentor MP with a design that incorporates a DC loop contactor, high-speed input fuses, 120 Vac control logic and DC output fuses (on all regenerative models). A dynamic braking contactor is also included for connection to external dynamic braking resistors. The Quantum MP saves engineering time and panel space.

It is very easy to retrofit from Quantum III.



5 YEAR WARRANTY

5-year warranty as standard*

Our Quantum MP series is so reliable we are confident enough to supply it with a five-year warranty as standard.

Now you can buy with the same confidence.

*Warranty terms and conditions apply.

N1652 E171230 RoHS compliant



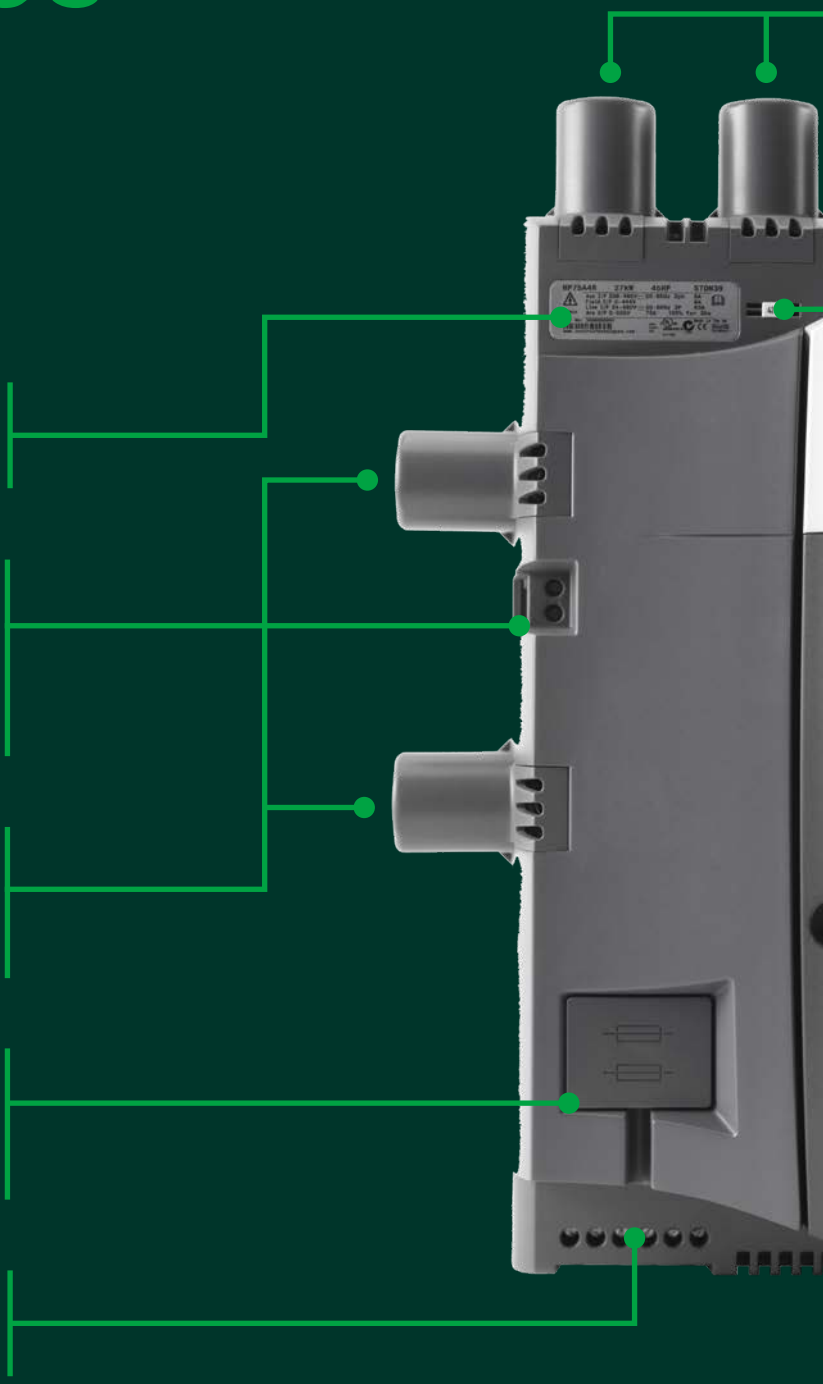
Machine communications flexibility

Drive intelligence and system integration

Easy to set-up and commission

Nidec Drives

Mentor MP & Quantum MP
Key Features



Drive rating label

Armature voltage feedback for use with DC contactor and inverter common DC bus systems

Output power connections to motor with removable covers

Fuses for field protection (removable cartridge)

Integrated field controller



AC supply input connections with removable safety covers

Drive identification marker rail

Optional LED keypad

Smartcard for parameter and custom application program storage

Standard onboard Modbus communications port for PC programming & device interfacing

Safety terminal cover

Safety finger guard

Nidec Drives

Mentor MP & Quantum MP
Key Features



Modbus Communications port for PC programming and device interfacing

Communications port for external field controller

Sturdy cable management system providing a grounding point for shielded control cables



3 universal option module slots for communications, I/O, additional feedback devices and automation /motion controllers

Pluggable terminals for I/O, relays, tach feedback, encoder and a current feedback test pin for fine tuning armature current loop

Communication ports for paralleling drives (Size 2 only)

Additional Quantum MP
Key Features



Frame size 1 layout, refer to the User Guide for Quantum MP frame size 2 details.



AC supply fuses

Customer 120 Vac
control connections

Easy set-up of Enhanced control and monitoring

Greater motor field control

- Built-in 8 A or 20 A field controller as standard.
- Gives excellent field control for the majority of DC motors.
- Reduces the need for external components.

Enhanced system design

- The heatsink cooling fans are intelligently controlled and only run when required, thus increasing reliability and reducing maintenance.
- Fourteen different option modules allow customization of the drive, including fieldbus, Ethernet, I/O, extra feedback devices and motion controllers.
- The drive system designer is able to embed automation and motion control within the drive, eliminating communications delays that reduce performance.

Enhanced field control with FXMP25

- The FXMP25 may be controlled digitally by using a standard RJ45 connection, allowing set-up by standard drive parameters.
- The FXMP25 can also function in standalone mode using its integrated keypad and display.
- An external field controller for up to 25 A with reversible capability.

Fast set-up, configuration and monitoring

- Quick and easy to set-up.
- Can be configured using optional removable keypads.
- Advanced auto-tune features help you get the best performance from your machine.


Mentor
Mentor
Mentor



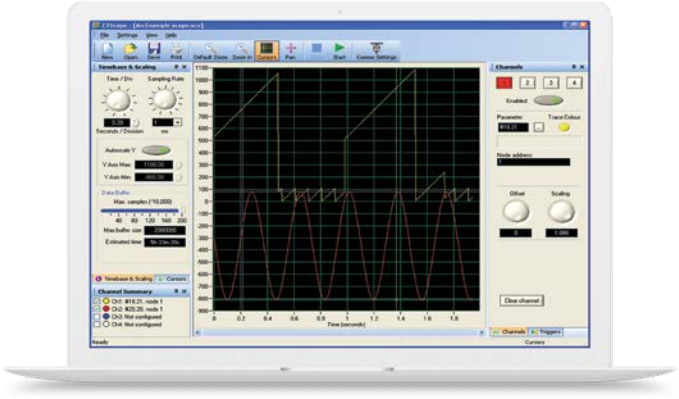
PC software & smartcard tools:
Rapid commissioning

Nidec Drives' software makes it easy to access the drive's feature set. It allows you to optimize drive tuning, back-up the configuration and set-up a communications network.

CTScope

Drive oscilloscope software for viewing & analyzing changing values within the drive.

- The time base can be set to give high speed capture for tuning or for longer term trends.
- Based on a traditional oscilloscope, making it easy to use for all engineers.

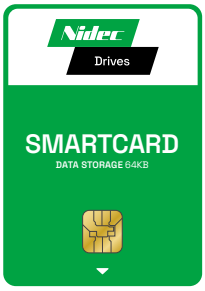




Smartcard

The smartcard is a backup memory device that brings the following benefits:

- Parameter and program storage.
- Simplify drive maintenance and commissioning.
- Quick set-up for sequential build of machines.
- Machine upgrades can be stored on a smartcard & sent to the customer for installation.



CTSoft

Our drive configuration tool for commissioning, optimizing and monitoring allows you to:

- Use configuration wizards to commission your drive.
- Read, save and load drive configuration settings.
- Manage the drive's smartcard data.
- Visualize and modify the configuration with live animated diagrams.
- All motor data is entered in real units and the current limit window will calculate parameter settings based on ambient temperature and required overload rating.



Unrivalled integration flexibility

Control Mode

Estimated speed Feedback

Tach Feedback

Encoder Feedback







Field Control

Options

Standard



Mentor MP in field mode greater than 25 A



FXMP25 Field Control up to 25 A



Integrated Field Control Size 1: 8 A | Size 2: 20 A



Drive Programming and Operator Interface

Options

Standard

Operator Interface



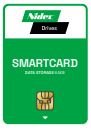
Free Software



SM-Keypad



Smartcard



Standard

Options

Input / Output

SM-I/O Plus

SM-I/O Lite

SM-I/O 120V

SM-PELV

REMOTE I/O









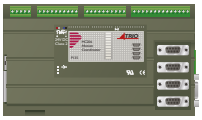




7 Digital I/O
5 Analog I/O
2 Form C relays

Centralized PLC/Motion Control

Motion Controller



PLC



PC





Standard | Option

Onboard PLC or Motion functionality

Onboard PLC



Easy to use onboard ladder logic PLC at zero cost, ideal for simple applications requiring extra drive functionality Configured using SyPTLite software

SM-Applications Plus



Powerful automation controller with drive-to-drive networking and full motion capability Configured using SyPTPro software

Communications

Standard | Options

Modbus RTU



SM-EtherCAT



SM-PROFIBUS DP-V1



SM-INTERBUS



SM-DeviceNet



SM-Ethernet



SM-CANopen



SM-PROFINET



Feedback

Standard | Options

Estimated speed
Tach Encoder



SM-Universal Encoder Plus



Accepts or replicates all standard feedback types, Input and output

SM-Encoder Plus



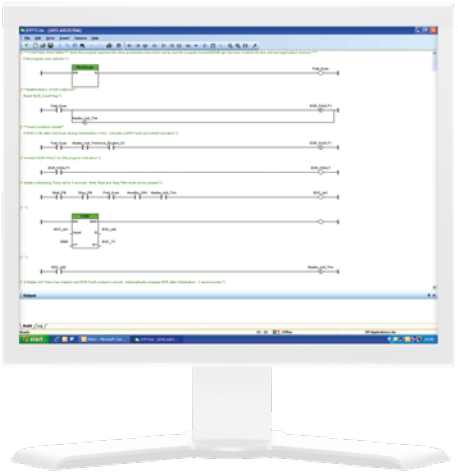
Incremental input

MP Series DC Drives

Drive intelligence & System integration

Inbuilt controller programmable with SyPTLite

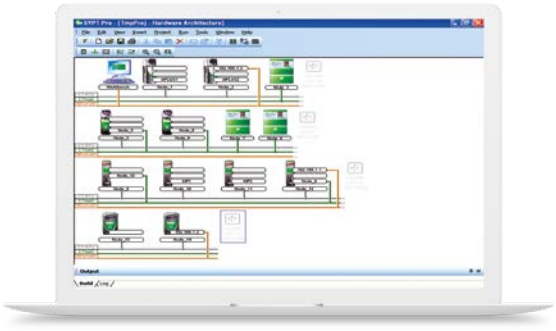
- The MP Series DC Drives have an inbuilt programmable controller. It is configured using SyPTLite, an easy-to-use ladder logic program editor, suitable for replacing relay logic or a micro PLC for simple drive control applications.



SyPTLite

Develop tailored solutions for applications modules with SyPTPro

- SyPTPro is a fully featured automation development environment that can be used for developing tailored solutions for single or multiple drive applications.
- The programming environment fully supports three industry standard languages: Function Block, Ladder and Structured Text. Motion control is configured using the new PLCopen motion language, supporting multiple axes.



SyPTPro



High performance automation

Control Techniques' SM-Applications option modules contains a separate high performance microprocessor enabling the execution of application programs. This leaves the drive's own processor to give the best possible motor performance.

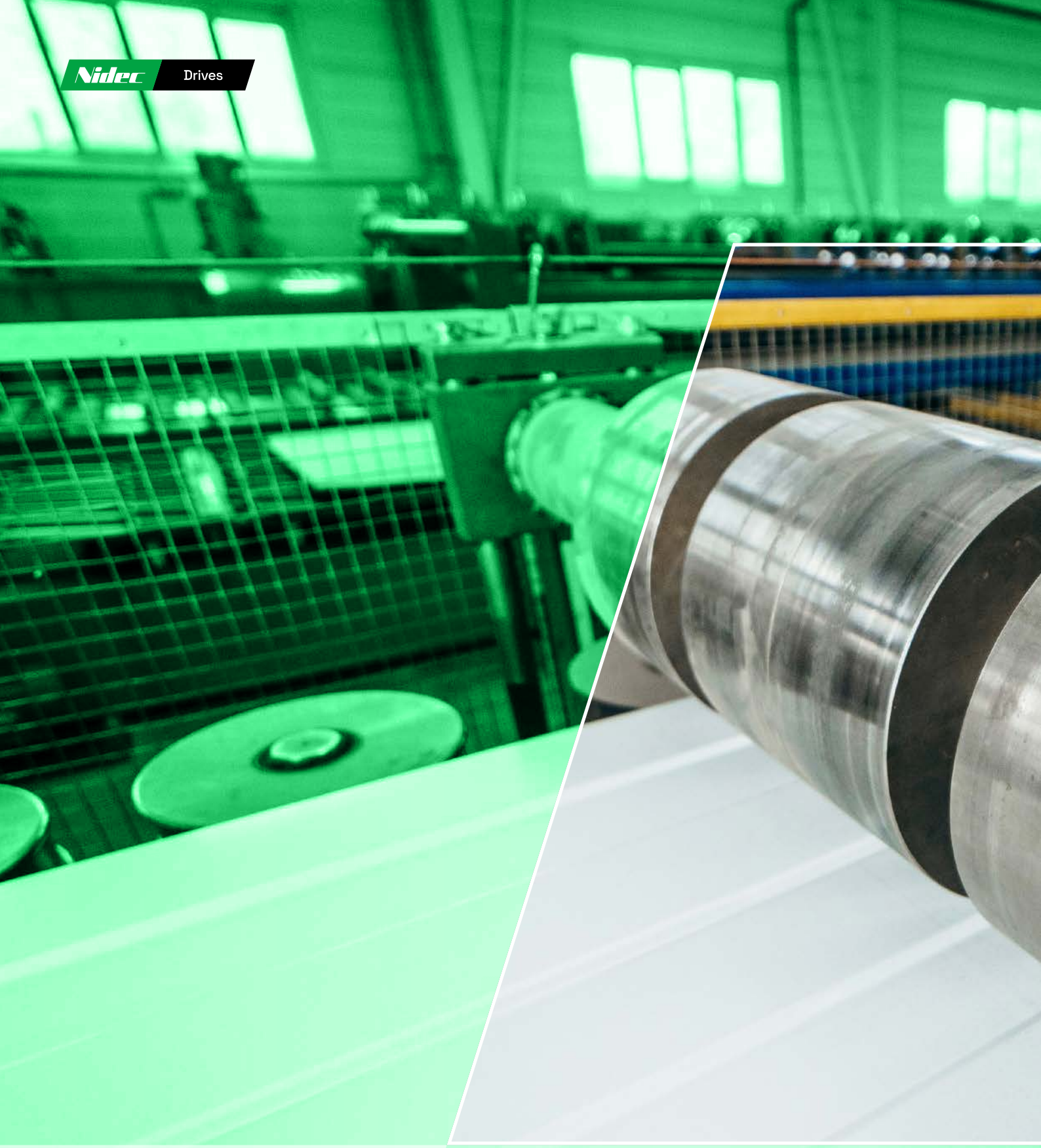
- Tackle automation problems from simple start/stop sequencing with a single drive to more complex machine and motion control application.
- The SM-Applications modules give you real-time access to all of the drive's parameters, plus access to data from I/O and other drives.

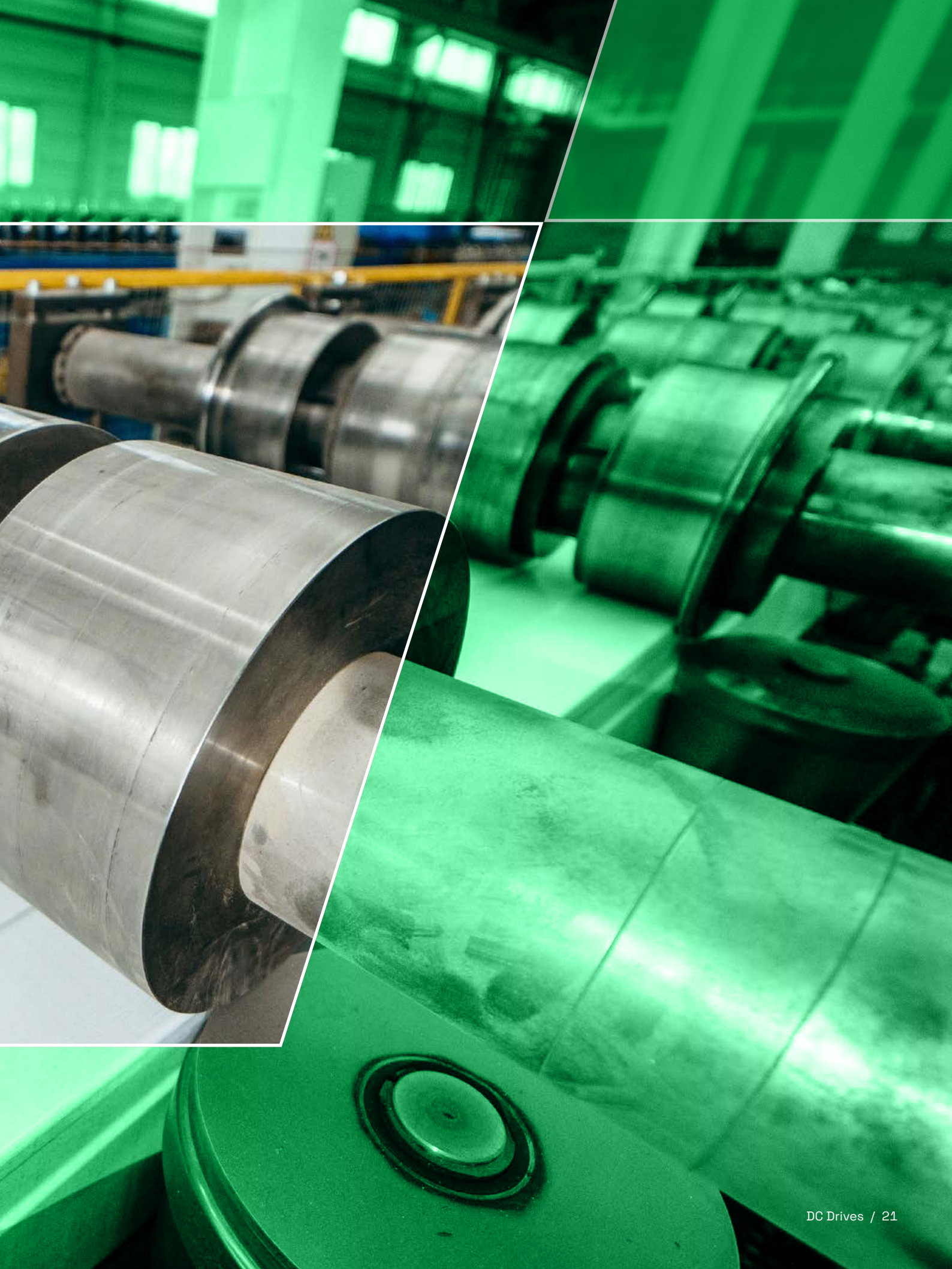
SM-Applications Plus features:

- Inputs/Outputs – The module has two digital inputs and two digital outputs for high-speed I/O operations such as position capture and actuator firing.
- High speed serial port – The module features a serial communications port supporting a number of built-in protocols for connection to external devices such as operator interface panels. These are CT-ANSI slave,
- Modbus RTU in master and slave modes, Modbus ASCII in master and slave modes and 3 user modes. Both two and four wire configurations are possible.



SM-Applications Plus





Nidec Drives

Perform & Level Up



MP Series DC Drives

Secure plant availability

Mentor II & Quantum III have had their day and the simplest way to secure plant availability is to level up with Mentor MP or Quantum MP.

Retro-fit projects

- We ensure easy integration with your existing motor, power supply, application equipment and communication networks from the design stage
- Mentor MP brings performance and possibilities to your application with minimum migration costs

Motor field control

- Built-in field controller as standard in every MP Series drive
- Gives excellent field control for the majority of DC motors
- Reduces the need for external components

We recommend an external motor field controller when:

- The required field current is greater than that offered by the standard drive, up to 25 A. For example, older motors with low field voltages
- The field needs to be forced down more quickly than a standard half controlled field bridge can manage
- Applications can be implemented with simple field current reversal, without armature reversal, if machine dynamics can still be met

Ease of migration

- Mentor MP is designed for existing Mentor II customers to easily migrate to the new platform
- All power terminal locations and mounting points have been retained
- At 900 A, Mentor MP has a much smaller frame size than Mentor II with smaller cable requirements. This allows for high power density paralleled configurations without custom-made bus bars.
- CT Soft has a built-in migration wizard to assist with the transfer of drive parameters and programs.

Note:
The control section of Mentor MP frame 2C and 2D is 3.54 in (90 mm) deeper than Mentor II. If a depth extension is not possible, then for other solutions, please contact your Control Techniques supplier.

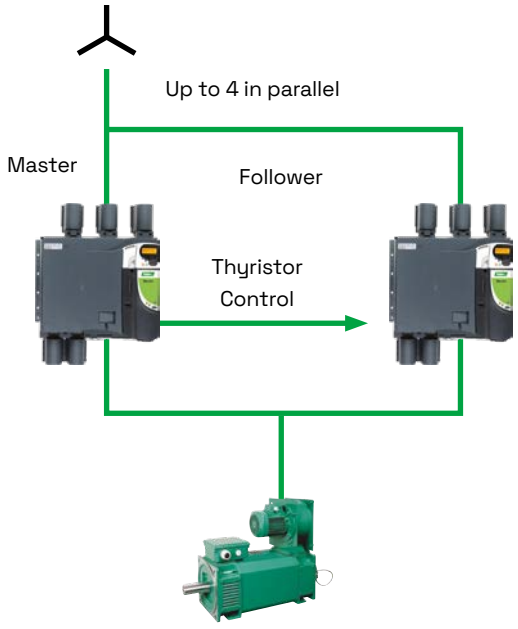
Mentor MP

High power configuration

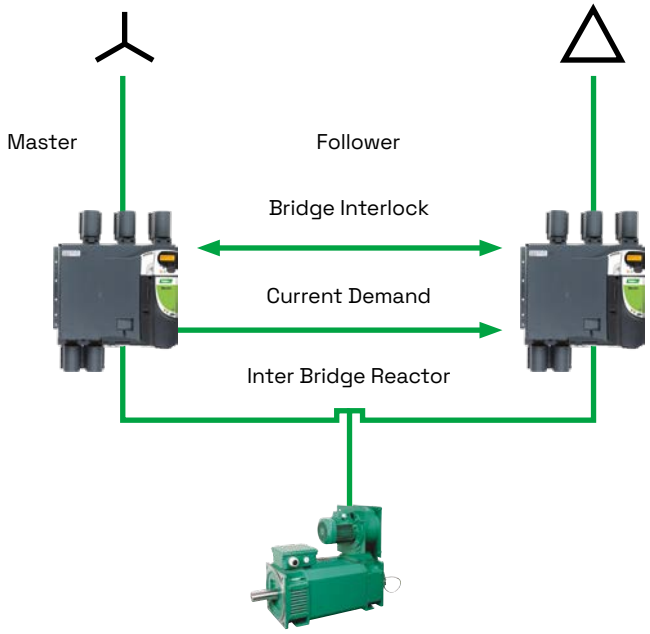
For higher armature currents and harmonic mitigation the Mentor MP has standard features to enable the configurations below to be implemented.

When paralleling the Mentor MP a 5% armature current de-rating must be applied. Up to 7030 A can be controlled.

Parallel - 6 pulse

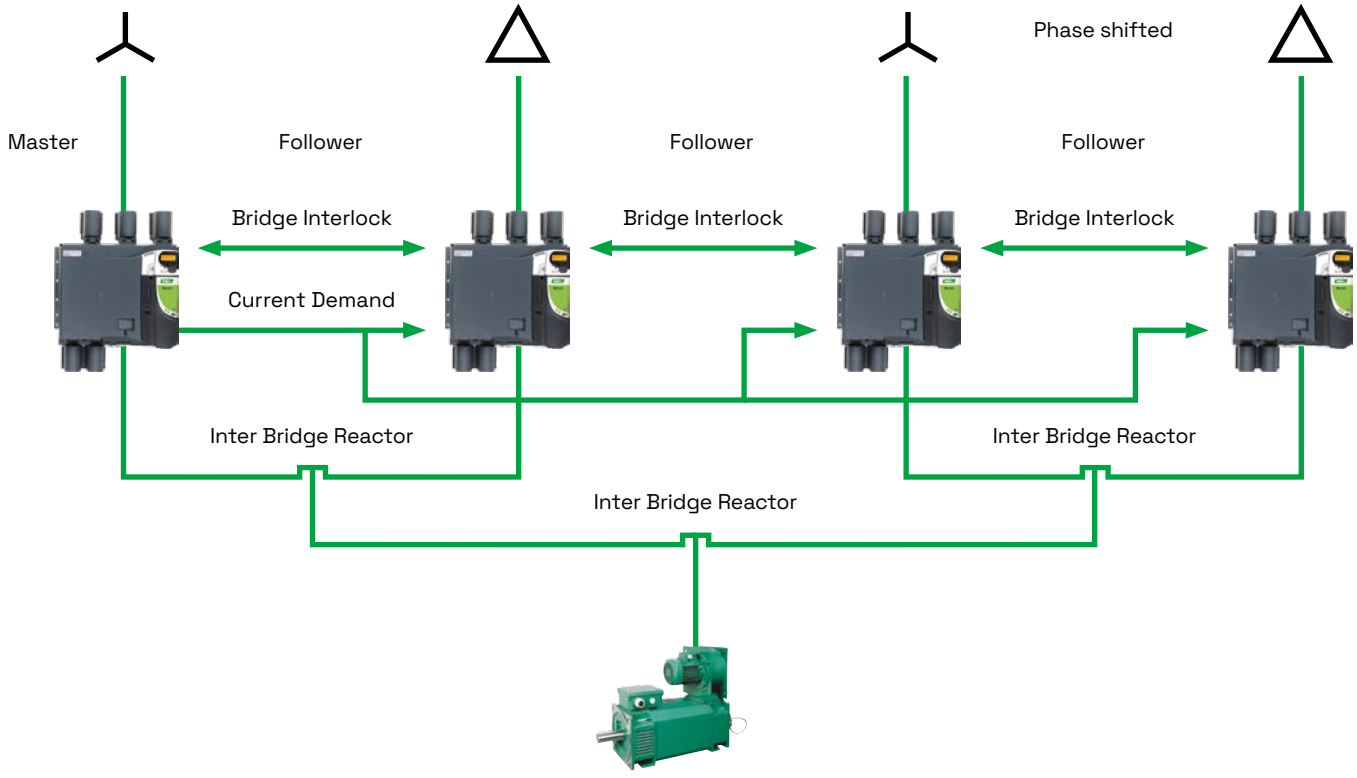


Parallel - 12 pulse





Parallel - 24 pulse

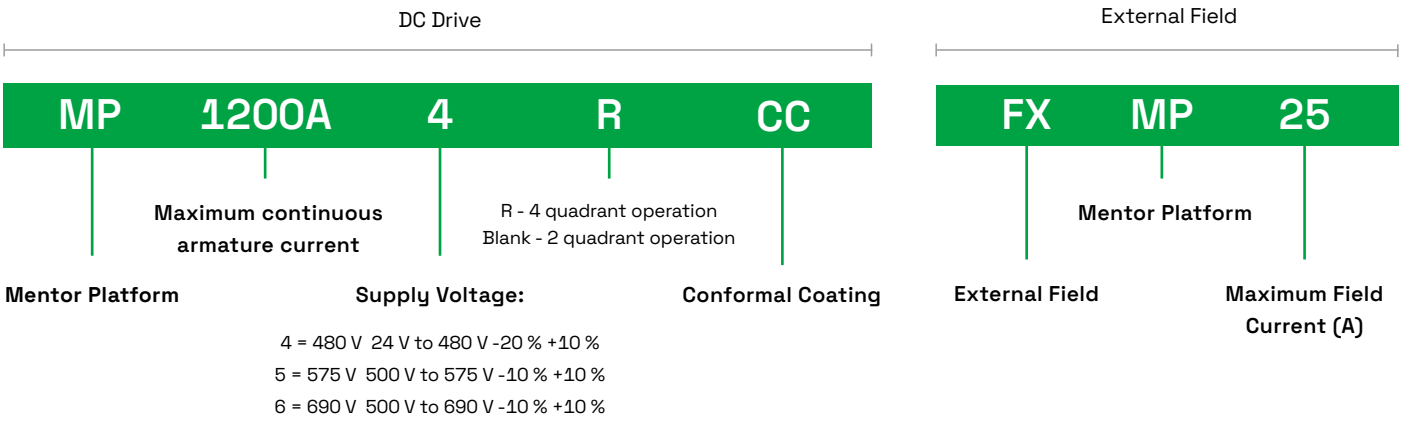


Mentor MP
Technical data

Conformance

- Humidity 95 % maximum (non condensing) at 40 °C (104 °F)
- Ambient temperature -15 °C to +40 °C (5 °F to +104 °F), 55 °C (131 °F) with derating
- Altitude: 0 to 3000 m, derate 1 % per 100 m between 1000 m and 3000 m
- Vibration: Tested in accordance with IEC 60068-2-64
- Mechanical shock tested in accordance with IEC 60068-2-29
- Storage temperature -40 °C to +70 °C (-40 °F to +158 °F)
- Notch Immunity to IEC60146-1-1 class A
- Electromagnetic immunity complies with EN 61800-3 and EN 61000-6-2
- IEC 61800-5-1 Electrical safety
- IEC 61131-2 I/O
- EN 60529 Ingress protection
- UL508C
- EN 61000-6-4 EMC - with optional EMC filters
- RoHS compliant





Note: At the time of ordering, please select the required interface option. Note: The drive order string does not include a SM-KEYPAD, please order separately.

Model			Frame	Armature current (A)*	Internal Field Controller Current (A)	Overall dimensions			Quadrants of Operation
480V EN / IEC cULus	575V EN / IEC cULus to 600V	690V EN / IEC				Width (W)	Height (H)	Depth (D)	
MP25A4(R)	MP25A5(R)		1A	25	8	293mm (11.54in)	444mm (17.48in)	222mm (8.74in)	2 and 4
MP45A4(R)	MP45A5(R)			45					
MP75A4(R)	MP75A5(R)			75					
MP105A4(R)	MP105A5(R)		1B	105		293mm (11.54in)	444mm (17.48in)	251mm (9.88in)	2 and 4
MP155A4(R)	MP155A5(R)			155					
MP210A4(R)	MP210A5(R)			210					
MP350A4(R)	MP350A5(R)	MP350A6(R)	2A	350		495mm (19.49in)	640mm (25.20in)	301mm (11.85in)	2 and 4
MP420A4(R)				420					
	MP470A5(R)	MP470A6(R)		470**					
MP550A4(R)				550					
MP700A4(R)	MP700A5(R)	MP700A6(R)	2B	700	20	495mm (19.49in)	640mm (25.20in)	301mm (11.85in)	2 and 4
MP825A4(R)	MP825A5(R)	MP825A6(R)		825**					
MP900A4(R)				900					
MP1200A4	MP1200A5	MP1200A6	2C	1200		555mm (21.85in)	1050mm (41.34in) ***	611mm (24.06in)	2
MP1850A4	MP1850A5	MP1850A6		1850					
MP1200A4R	MP1200A5R	MP1200A6R	2D	1200		555mm (21.85in)	1510mm (59.45in) ***	611mm (24.06in)	4
MP1850A4R	MP1850A5R	MP1850A6R		1850					

7030 A is achieved by parallel connection of Mentor MP drives

* Current ratings are at 40°C with 150% overload for 30s.
** For this rating at 575V and 690V, 150% overload time is 20s at 40°C and 30s at 35°C.
*** Height including optional fit exhaust duct cover is 1252mm (49.29in) for size 2C and 1712mm (67.40in) for size 2D.

Mentor MP
Technical data

Dimensions

Frame Size	Height (H)*		Width (W)		Depth (D)	
	in	mm	in	mm	in	mm
1A	17.5	444	11.5	293	8.7	222
1B	17.5	444	11.5	293	9.9	251
2A	25.2	640	19.5	495	11.9	301
2B	25.2	640	19.5	495	11.9	301
2C	41.3	1050	21.9	555	24.1	611
2D	59.4	1510	21.9	555	24.1	611

* Height including optional fit exhaust duct cover is:
49.29 in (1252 mm) for size 2C and 67.40 in (1712 mm) for size 2D.





All Mentor MP and Quantum MP DC drives up to 575 V ratings are cULus certified. These drives are the most flexible DC drive available today.

Mentor MP Terminal Connections



Power - Armature

Pin #	Function
A1	Armature +
A2	Armature -

Motor Armature Voltage Feedback

Pin #	Function
MA1	Armature +
MA2	Armature -

RS485

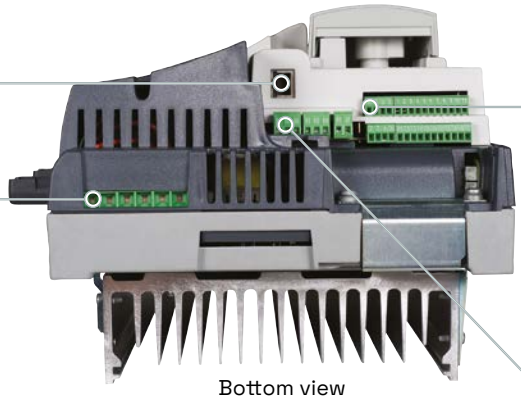
Pin #	Function
1	120Ω Termination Resistor
2	RX TX
3	Isolated 0 V
4	+24 V (100 mA)
5	Isolated 0 V
6	TX Enable
7	RX\ TX\
8	RX\ TX\ (if termination resistors are required, link to pin 1)
Shell	Isolated 0 V

External Field Supply RS485

Pin #	Function
1	120Ω Termination Resistor
2	RX TX
3	Isolated 0 V
4	+24 V (100 mA)
5	Isolated 0 V
6	TX Enable
7	RX\ TX\
8	RX\ TX\ (if termination resistors are required, link to pin 1)
Shell	Isolated 0 V

Power - Field

Pin #	Function
E1	Control Electronics Supply
E3	Control Electronics Supply
L12	Field On/Off
L11	Field On/Off
F+	Field +
F-	Field -



Bottom view

Frame Size 1 layout
Refer to the product User Guide for other sizes

Power - Line

Pin #	Function
L1	Line In
L2	Line In
L3	Line In
⏚	Ground Connection

Control Terminals - Top Row

Pin #	Function
1	0 V Common
2	24 Vdc External Input
3	0 V Common
4	10 Vdc Source, 10 mA
5	Analog Input 1 +
6	Analog Input 1 -
7	Analog Input 2
8	Analog Input 3
9	Analog Output 1
10	Analog Output 2
11	0 V Common

Control Terminals - Bottom Row

Pin #	Function
21	0 V Common
22	24 Vdc Output, 200 mA
23	0 V Common
24	Digital I/O 1
25	Digital I/O 2
26	Digital I/O 3
27	Digital Input 4
28	Digital Input 5
29	Digital Input 6
30	0 V Common
31	Drive Enable

Control Terminals - Encoder Feedback

Pin #	Function
A	Channel A
A\	Channel A\
B	Channel B
B\	Channel B\
Z	Marker Pulse Z
Z\	Marker Pulse Z\
+	Encoder Supply
0 V	Encoder 0 V

Control Terminals - Relays & Tach Feedback

Pin #	Function
51	Relay 1 Common
52	Relay 1 N/C Contact
53	Relay 1 N/O Contact
61	Relay 2 Common
62	Relay 2 N/C Contact
63	Relay 2 N/O Contact
41	Tach +
42	Tach -

Nidec Drives

Quantum MP

Technical data

Environment

Ambient Operating	32 to 131 °F (0 to 55 °C)
	Some models are derated above 104 °F (40 °C)
Cooling Method	QMP45 natural convection; QMP75 and larger forced convection
Humidity	90% relative humidity at 122 °F (50 °C)
Storage Temperature	-40 to 131 °F (-40 to 55 °C)
Altitude	0 to 9,842 ft (0 to 3,000 m), derate 1% per 328 ft (100 m) between 3,280 ft (1,000 m) and 9,842 ft (3,000 m)
Enclosure	IP00

AC Supply Requirements

SCR Supply Voltage	208 to 480 Vac -20% +10%, 3Ø
Frequency	48 to 65 Hz
Supply Fault Current	QMP45-QMP210 = 30kA; QMP350 and larger = 5 kA
Auxiliary Supply Voltage	208 to 480 Vac ±10%, 1Ø
Armature Voltage (max.)	2-quadrant drives 1.35 X input Vac; 4-quadrant drives 1.15 X input Vac
Field Voltage (max.)	0.9 X input Vac with 1Ø input

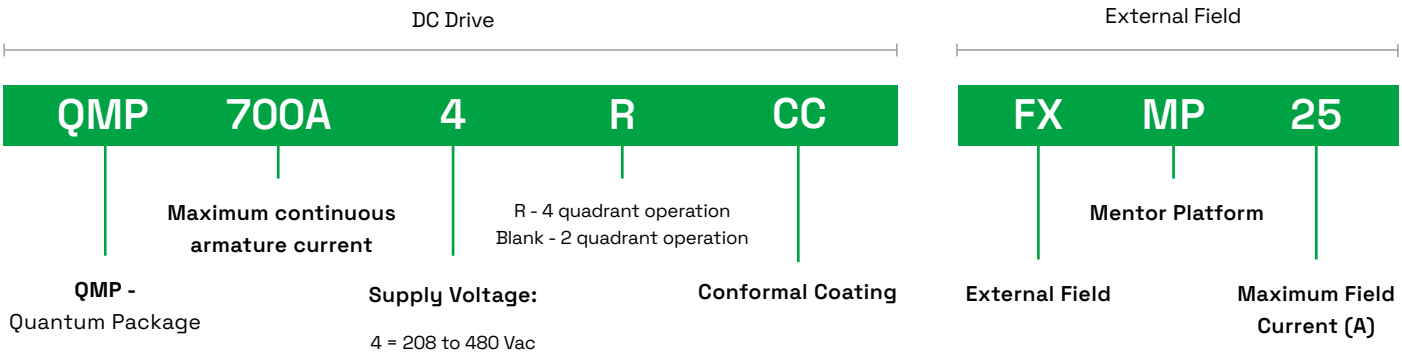
Control

Analog Inputs voltage ± 10 V, 14 bit + sign	Qty 1, high precision differential
	Qty 2, general purpose voltage or current ± 10 V, 0 to 20 mA, 4 to 20 mA, thermistor (analog 3 only), 10 bit + sign
Analog Outputs	Qty 2, ±10 V, 0 to 20 mA, 4 to 20 mA, 10 bit + sign
	Qty 1, instantaneous armature current feedback pin, 10 V = 2x motor rated current
Digital I/O	Qty 3, 24 Vdc inputs
	Qty 3, 24 Vdc input/outputs
	Qty 7, 120 Vac Inputs
Drive Enable	Digital input 24 Vdc
Relays	Qty 2, 5 A @240 Vac, 5 A @30 Vdc resistive, 0.5 A @30 Vdc inductive (L/R = 40 ms) Qty 1, 120 Vac

Speed Loop	250 µs loop update
Current Loop	35 µs current sampling time
Feedback Methods	Encoder (resolution 0.01%)
	DC tach (resolution 0.1%); AC tach (resolution 1%) (300 V max.)
	Armature voltage (resolution 5%)
	Qty 3, optional additional incremental and absolute encoders
Field Control	Current regulated with flux control
	QMP25-QMP210 8 A
	QMP350-QMP700 20 A
	QMP Optional FXMP25 25 A
Serial Communications	2- or 4-wire RS422 or RS485, optically-isolated
	Protocol is ANSI x 3.28-2.54-A4 or Modbus RTU Baud rate is 300 to 115,200

Protection and Diagnostics

Control	Patent-pending galvanic electrical isolation, 24 Vdc power supply
Supply	Loss, undervoltage, overvoltage, transient suppression, semiconductor fuses
Armature	Open circuit, I2t overload, instantaneous overcurrent, semiconductor fuse (regen only)
Field	Loss, overcurrent
Motor	Motor overtemperature switch or thermistor overtemperature trips
Drive Thermal	Heatsink, SCR junction, control board and option module(s)
Current Loop Loss	Loss of analog current reference



Note: At the time of ordering, please select the required interface option. Note: The drive order string does not include a SM-KEYPAD, please order separately.

Frame	Order Code	Input Voltage		Armature Current (A)*	Field Current (A)	Quadrants of Operation
		230 V	460 V			
		Motor (HP)				
		240 Vdc	500 Vdc			
1A	QMP25A4(R)	5	10	25	8	2 and 4
	QMP45A4(R)	10	25	45		
	QMP75A4(R)	20	40	75		
1B	QMP155A4(R)	40	75	155	8	2 and 4
	QMP210A4(R)	60	125	210		
2A	QMP350A4(R)	100	200	350	20	2 and 4
2B	QMP550A4(R)	150	300	550	20	2 and 4
	QMP700A4(R)	200	400	700		

* Current ratings are at 40°C with 150% overload for 30s.

(R) indicates optional order code for 4-quadrant operation.

Horsepower (HP) provided for reference - always size drive based on motor Amps.

** For this rating at 575 V and 690 V, 150% overload time is 20s at 40°C and 30s at 35°C.

Quantum MP
Technical data

Dimensions

Frame Size	Height (H)*		Width (W)		Depth (D)	
	in	mm	in	mm	in	mm
1A	22.6	573	13.0	330	8.7	272
1B	22.6	578	13.0	330	9.9	251
2A	39.0	991	20.3	516	13.5	343
2B	43.0	1092	20.3	516	13.5	343



Frame Size 1

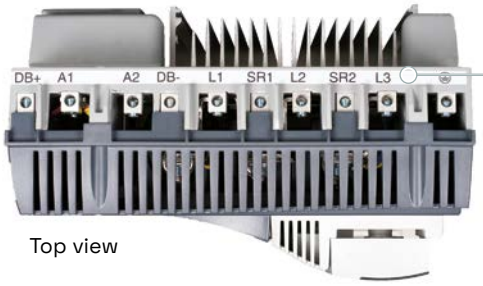


Quanum MP 350 A
Frame Size 2

The Quantum MP packages are designed for easy system integration into new or existing DC motor applications.

Quantum MP Terminal Connections

RS485	
Pin	**Function**
1	120Ω Termination Resistor
2	RX TX
3	Isolated 0 V
4	+24 V (100 mA)
5	Isolated 0 V
6	TX Enable
7	RX\ TX\
8	RX\ TX\ (if termination resistors are required, link to pin 1)
Shell	Isolated 0 V



Top view

Power - Line & Armature	
Pin #	**Function**
DB+*	Dynamic Braking Resistor +
A1	Armature +
A2	Armature -
DB-*	Dynamic Braking Resistor -
L1	AC Line
SR1	Line Suppressor Resistor
L2	AC Line
SR2	Line Suppressor Resistor
L3	AC Line
GND	Ground Connection

Power - Field	
Pin #	**Function**
E1	Control Electronics Supply
E3	Control Electronics Supply
L12	Field On/Off
L11	Field On/Off
F+	Field +
F-	Field -



Control Terminals - Top Row	
Pin #	**Function**
1	0 V Common
2	24 Vdc External Input
3	0 V Common
4	10 Vdc Source
5	Analog Input 1 +
6	Analog Input 1 -
7	Analog Input 2
8	Analog Input 3
9	Analog Output 1
10	Analog Output 2
11	0 V Common

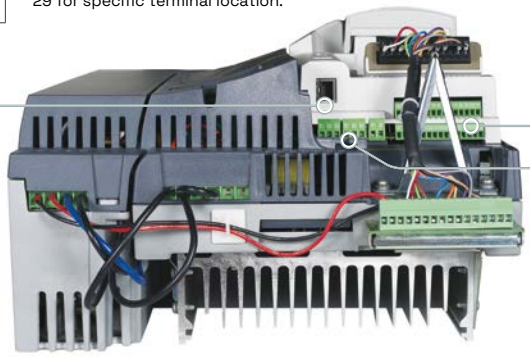
Control Terminals - 120 Vac		
Pin #	**Function**	
C1	120 Vac Supply	User Output
C2	E-Stop	Input
C3	120 Vac Supply	Feed from C2
C4	System Interlocks	Input
C5	120 Vac Supply	User Output
C6	Digital Input1 (Stop)	Input
C7	120 Vac Supply	Feed from C6
C8	Digital Input2 (Start)	Input
C9	120 Vac Supply	Feed from C6
C10	Digital Input3 (Jog)	Input
C11	120 Vac	User Output
C12	Digital Input4 (Fwd/Rev)	Input
C13	120 Vac	User Output
C14	Digital Input5 (Reset)	Input
C15	120 Vac	Relay Common
C16	Relay Output (Drive On)	Relay Output

Control Terminals - Bottom Row	
Pin #	**Function**
21	0 V Common
22	24 Vdc Output, 200 mA
23	0 V Common
24	Digital I/O 1
25	Digital I/O 2
26	Digital I/O 3
27	Digital Input 4
28	Digital Input 5
29	Digital Input 6
30	0 V Common
31	Drive Enable

*See Mentor MP terminal connections on page 29 for specific terminal location.

Control Terminals - Encoder Feedback	
Pin #	**Function**
A	Channel A
A\	Channel A\
B	Channel B
B\	Channel B\
Z	Marker Pulse Z
Z\	Marker Pulse Z\
+	Encoder Supply
0 V	Encoder 0 V

External Field Supply RS485	
Pin #	**Function**
1	120Ω Termination Resistor
2	RX TX
3	Isolated 0 V
4	+24 V (100 mA)
5	Isolated 0 V
6	TX Enable
7	RX\ TX\
8	RX\ TX\ (if termination resistors are required, link to pin 1)
Shell	Isolated 0 V


Bottom view

Control Terminals - Relays & Tach Feedback	
Pin #	**Function**
51	Relay 1 Common
52	Relay 1 N/C Contact
53	Relay 1 N/O Contact
61	Relay 2 Common
62	Relay 2 N/C Contact
63	Relay 2 N/O Contact
41	Tach +
42	Tach -

Frame Size 1 layout
Refer to the product User Guide for other sizes

Global supply chain & support

With manufacturing facilities covering China, Europe, Asia Pacific and the Americas, we offer geographic diversity, benefiting our customers with shorter, more resilient supply chains. By ensuring that products are always available wherever our customers need them brings reassurance that lead times are kept to a minimum.

Our drives are manufactured using identical machinery, technology and techniques. This model guarantees that your supply chain will not be affected, any updates or changes made at our Headquarters can be swiftly and efficiently implemented across all locations. Allowing you to rest assured that the quality and reliability of your products will remain, guaranteeing a consistent and dependable experience.

In the rare event that a machine requires maintenance or parts replacement, our global facilities are equipped with spare parts on-site. This ensures we can quickly restore your operations without causing delays, minimizing downtime and keeping your supply chain running smoothly.

We are perfectly set up with the capacity to serve your volume needs.

United Kingdom





Mexico



Drive your network, using our network

To maintain your local HVACR installations, our global presence ensures we are always close by to provide world-class support, based on 50 years of experience.

Present in over 70 countries, we are always close to our customers, can speak to you in your own language and can guarantee fast, efficient service and support when it's needed.

Our global infrastructure provides:

- Global R&D footprint
- Local technical and sales support through our global Drive Centers
- Distributors and Country Partners network
- Highly flexible and comprehensive HVACR products, with options and opportunities for customization
- Technical and engineering expertise worldwide
- Well-formed, resourced and proven new product development processes



Nidec

All for dreams

Connect with us

www.drivesfromnidec.com

©2026 Nidec Control Techniques Limited. The information contained in this brochure is for guidance only and does not form part of any contract. The accuracy cannot be guaranteed as Nidec Control Techniques Ltd have an ongoing process of development and reserve the right to change the specification of their products without notice.

Nidec Control Techniques Limited. Registered Office: The Gro, Newtown, Powys SY16 3BE.

Registered in England and Wales. Company Reg. No. 01236886.

CONTROL TECHNIQUES

KB

CTD

BR_DC Drives_Iss01_US 10/26