

MDX+⁺ SERIES

INTEGRATED SERVO MOTOR
DRIVE + MOTOR + CONTROL



EtherCAT[®] **CANopen**  **Modbus**

MDX+ Integrated Servo Motor

Product overview

The MDX+ series is a low-voltage servo system that integrates drivers, servo motors, coded feedback, etc. Power range coverage 100/200/400/550W. This series of products support pulse, RS485, CANopen, EtherCAT communication mode, and Covers models with Brake and STO, with safe and reliable technical support, can be widely used in logistics equipment, medical equipment, AGV, new energy, photovoltaic, semiconductor, 3C electronics and other industries.

The MDX+ servo drive is debugged by Luna software. The software and the drive are connected by USB communication at high speed, Debugging is very convenient and fast.

Features

- Drive and motor integration, miniaturization and compact design
- The main power supply supports 24-60VDC and the auxiliary power supply supports 24VDC
- Motor frame size 40/60/80mm, covering 100W to 550W power segments
- Support EtherCAT, CANopen, RS485 field bus
- Equipped with 17-bit magnetic incremental encoder or 17-bit batteryless absolute encoder
- High position accuracy and excellent control characteristics
- Support position control, velocity control, torque control
- Built-in brake option is available
- IP20 or IP65 protective option is available

Applications

MDX+ series integrated servo motors have a wide range of applications:

Packging

Logistics transportation

Checking weighing

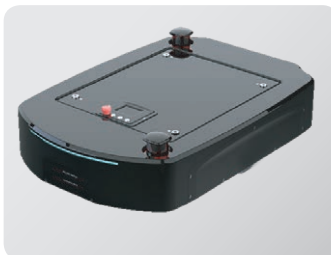
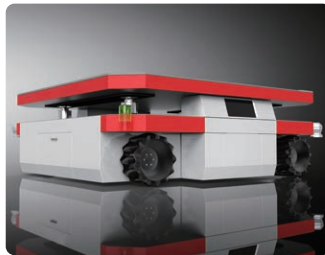
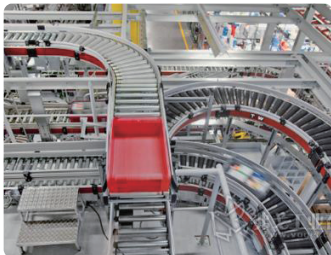
Gate machine

AGV

Electronic components

Medical

Textile



Features

■ Compact Design

MDX+ series is designed to be small and compact, the total length is about 20% smaller than that of traditional split type, which is very suitable for equipment with limited installation space.

Less components
and
easier wiring

Replace this...



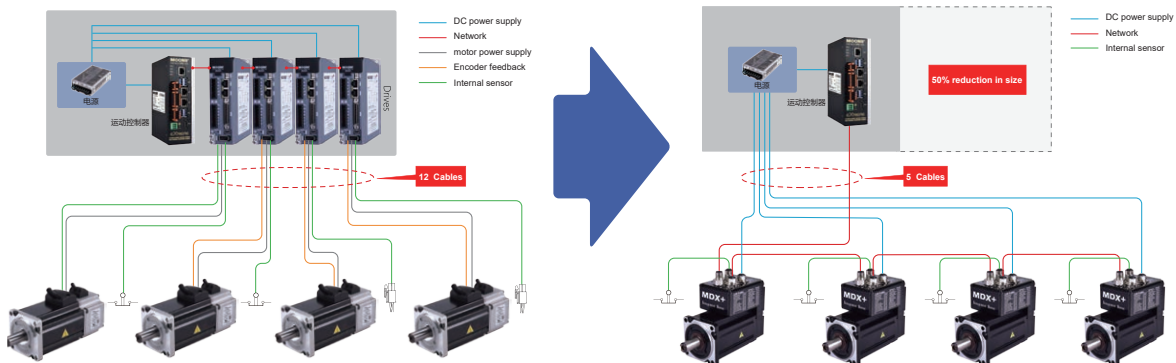
With this...

all in
ONE

Motor
Encoder
Drive
Industrial Fieldbus



Smaller control panel, **Simplifies** the selection and installation of components, **Saving** time

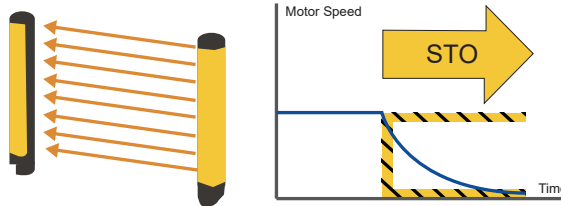


■ Reliable Operation

● STO

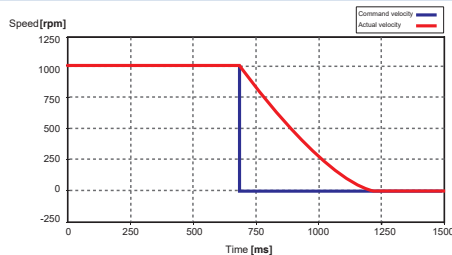
Safe Torque Off (STO) is a hardware level safety protection function. When the STO function is activated, the ability to drive motor current is cut-off. In case of an emergency, this operator can protect human and equipment safety while the drive is continuously powered.

MDX+ series drive meets UL61800-5-2(SIL 3), IEC61508, ISO138491(PL e).



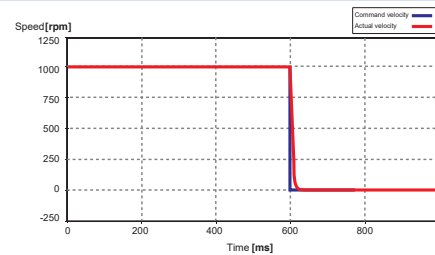
● Dynamic Brake

Dynamic brake is a mechanism that stops the motor with the fastest speed by shorting the motor three-phase in case of an emergency, the intention is to protect the safety of equipment and surrounding. Dynamic brake is driven by motor's back EMF current, no external power source is needed to engage or disengage the brake function.



Without Dynamic brake

The drive will disable, decelerate and free stop uncontrollable while a fault occurs. The deceleration time and distance are determined by the system inertia and friction.

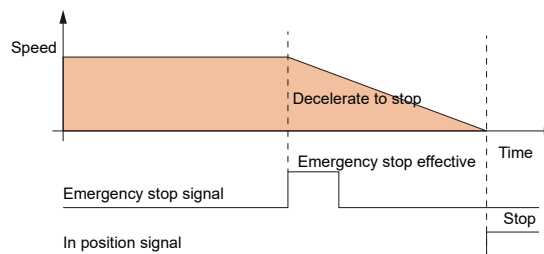


Dynamic brake is in effect

The velocity command is set to 0 as soon as the drive is disabled. The actual velocity ramps down immediately as the braking applies.

● Emergency Stop

- ◆ When the communication between the controller and drive fails during the motor movement, the drive will trigger the watch dog, the motor decelerates according to the set mode.
- ◆ When the motor needs to be decelerated and stopped immediately in an emergency situation during movement, it can be triggered by the I/O or field bus control commands, the motor decelerates according to the set mode.



● Protection



Over voltage protection



Over current protection



Over temperature protection

Waterproof and Dustproof

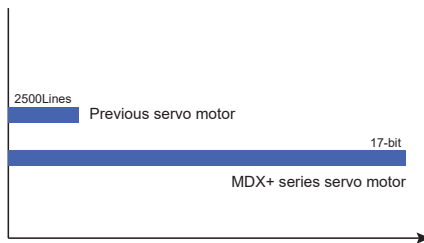
MDX+ series integrated servo motors have IP65 rating waterproof and dustproof protection.



High Positioning Accuracy

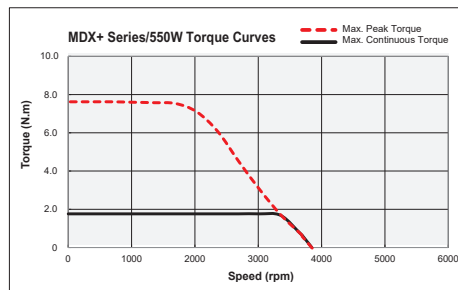
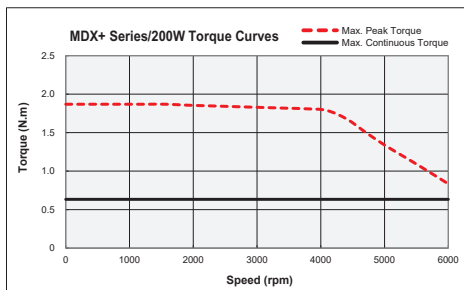
Combining high resolution encoder and low cogging motor, MDX+ provides ultimate smooth and accurate motion experience.

- ◆ 17-bit incremental/absolute magnetic encoder with up to 131,072 feedback pulses per revolution
- ◆ There is a battery-less absolute encoder option, the actual position of the motor will not be lost when the drive is powered off.



High Speed Motor with 300% of Rated Torque

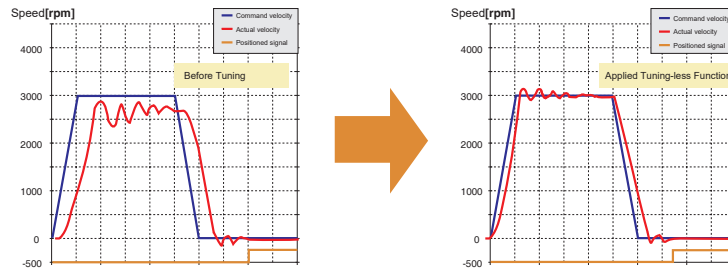
- ◆ 300% peak torque is conducive to providing higher acceleration and deceleration, leading to better manufacture efficiency and capacity.
- ◆ MDX+ Series 550W models can meet 400% overload torque.



Easy Tuning

Tuning-less Function

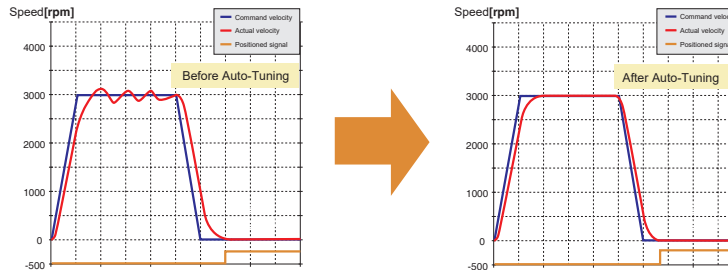
- ◆ No tuning is required for load up 30 times of the load inertia ratio.
- ◆ No limitation towards any load type and drive control mode.
- ◆ High robustness for maximum control of servo system stability.



Auto-tuning

The real-time auto-tuning algorithm can automatically identify the load inertia (ratio), gain and vibration suppression parameters in real time.

The auto-tuning function can greatly shorten your system tuning time, improve system responsiveness and equipment production efficiency.



Unique Q programming function

Q Programmer is MOONS' own single-axis motion control software based on SCL commands. It can be used to create sophisticated and functional programs that can be saved to a drive's nonvolatile memory, and then run stand-alone, or without a permanent connection to the host. Q drives offer a high level of flexibility and functionality to the machine designer and system integrator.

Features:

- Motion control commands (relative position, absolute position, homing mode, etc.)
- Multi-tasking
- Conditional Processing (external I/O, internal command)
- Math Calculation (+, -, *, /, &, or)
- Data register manipulation
- Logic motion commands (loop, call functions)

Line	Label	Cmd	Param1	Param2	Comment
1		MT	1		Turn ON Multi-Tasking
2		DL	3		Turn OFF limits
3		PF	2000		Set Position Fault limit
4		CC	2		Set continuous current to 50%
5		CP	2		Also set peak current to same
6		DI	4000		Make distance positive for CW
7		JM	1		Set Jog mode to positioning
8		JS	1		Set Jog speed to 1 rev/sec
9		JA	10		Set Jog accel to 10 rev/sec/sec
10		CJ			Start jogging
11	Label2	TR	x	100	Test Reg "x" against 100
12		QJ	G	#Label1	Jump if greater than
13		TR	x	-100	Test Reg "x" against -100
14		QJ	G	#Label2	Jump if greater than
15	Label1	SM	M		Stop move with max accel (AM)
16		WM			Wait for stop to complete
17		EP	0		Set encoder position to zero
18		VE	1		Set Velocity to 1 rev/sec
19		DI	-8000		Set home offset distance (CCW)
20		FL			Do a Relative move
21		WM			Wait for move to complete
22		SP	0		Set absolute position to zero
23		AX			Clear any faults just in case
24		WT	0.1		Wait 0.1 seconds

■ Various of Field Bus

There are many applications based on fieldbus communication in industrial automation. The MDX+ series servo system can support EtherCAT bus, RS-485 based Modbus bus, CANopen bus based on CAN, provide a wealth of field bus servo system solutions.

● CANopen

Standard CAN bus interface is available in MDX+ series servo drives, which makes it easy to get integrated to an industrial field bus.

Items	Specification
Physical Layer Standard	CiA 303-1 Cabling and connector pin assignment
Communication Protocol	CiA 301 Application Layer and Communication Profile CiA 402 Device Profile Drives and Motion Control
Bus Connector	Molex
Baud Rate	12.5Kbps, 20Kbps, 50Kbps, 125Kbps, 250Kbps, 500Kbps, 800Kbps, 1Mbps
Communication Objects	SDO, PDO, SYNC, EMCY, NMT, Heartbeat
Control Mode	Interpolated Position, Profile Position, Profile Velocity, Profile Torque, Homing Mode
PDO Data	4 RxPDOs, 4 TxPDOs
Support Axis	Up to 112 axes

● Modbus

MDX+ series servo drives provide the Modbus/RTU communication function with RS-485 interface, which can be used to easily control the motor, set parameters or monitor the status of the drive.

Items	Specifications
Physical Layer Standard	RS-485
Communication Protocol	Modbus/RTU
Bus Connector	Molex
Baud Rate	9600bps, 19200bps, 38400bps, 57600bps, 115200bps
Control Mode	Position Mode, Velocity Mode, Torque Mode, Homing Mode, Q Program
Support Axis	Up to 32 axes

● EtherCAT

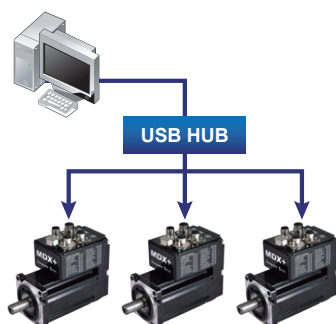
- Full duplex, communication baud rate 100Mbps
- Support CoE(CiA 402 protocol), VoE(Vendor over EtherCAT)
- Support PP, PV, TQ, CSP, CSV, CST, HM mode, Combine with MOONS' EtherCAT stepper series product, we can meet all your motion demands.



■ Friendly Software

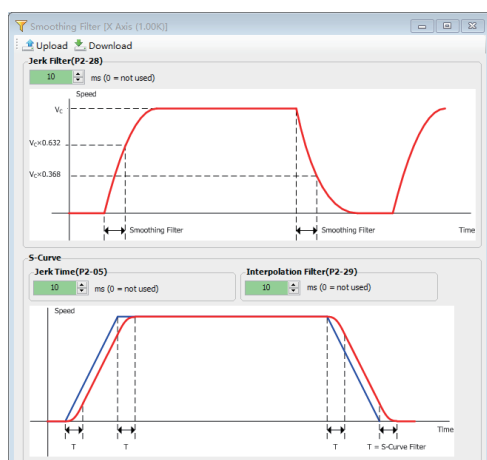
● USB Multi-axis Tuning

Based on USB communication, it can realize multi-axis tuning, simple and convenient.



● Graphical Setting Interface

The setting interface adopts a simple and clear graphical interface, which can intuitively set the required functions.

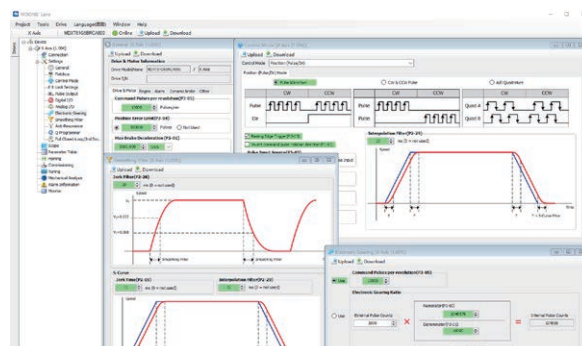


● Powerful Oscilloscope Function

- Real-time data curve display
- Up to 4 channels with 16bit data per channel and 8kHz sampling rate
- Up to 2 channels with 32bit data per channel and 8kHz sampling rate
- In the selected cursor area, display the maximum value, minimum value, root mean square, etc.
- Customizing trigger conditions
- Monitoring the operation status of the drive and the digital inputs and outputs

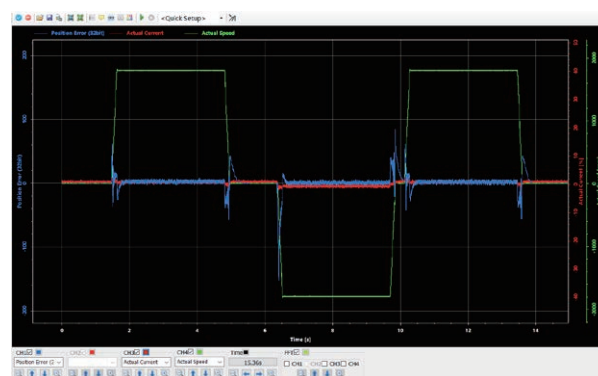
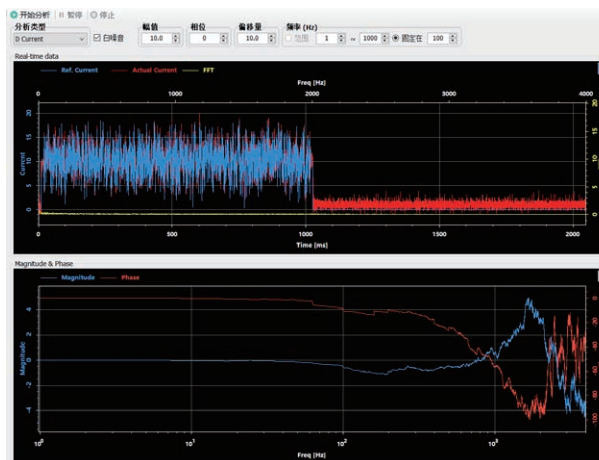
● Tree Structure

Newly designed tree-structure software, multi-window display, clear function classification.



● Mechanical Analysis

Quickly diagnose the frequency characteristics of mechanical equipment and draw a Bode diagram. It can be used to detect the resonance point and frequency response characteristics of the machine, and quickly set the notch filter.



■ General Specifications

● Safety Certification

MDX+ series products are designed to meet the following standards.



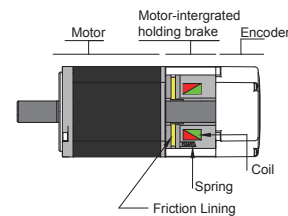
		Drive	Motor
Europe	EMC	EN 61800-3	EN 60034-1
			EN 61000-6-2
			EN 61000-6-4
	LVD	EN 61800-5-1	EN 60034-1 EN 60034-5
Function Safety (STO)		UL61800-5-2(SIL 3)	
		IEC61508	
		ISO13849-1(PL e)	
UL Standard		UL 61800-5-1	UL 1004-1 UL 1004-6
CSA Standard		C22.2 No.274-13	CSA C22.2 No.100

● Brake Specifications

Motor brake is used to prevent motor from rotating by power off the servo system. The most common way of use is in vertical application, when the motor is disabled or powered off, in order to prevent the displacement of the mechanical mechanism driven by the motor due to gravity and other reasons, the servo motor with brake needs to be used.

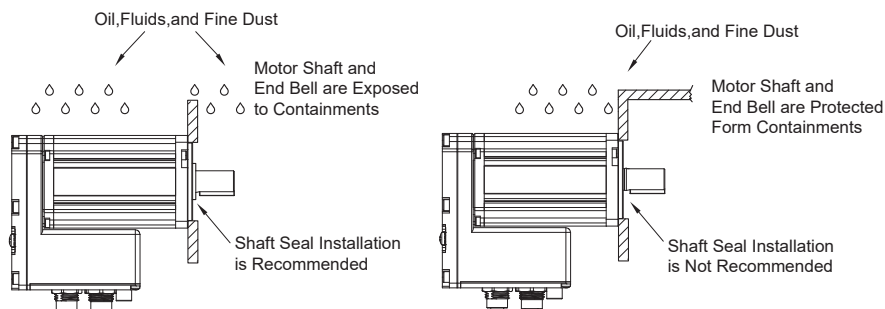
When the brake is powered on, the armature is adsorbed, the brake pad is released, and the motor can operate normally. When the brake is powered off, the armature is released, the brake pad is locked, and the motor can't rotate normally.

Frame	40mm	60mm	80mm
Static Friction Torque (Nm)	0.32	1.5	3.2
Rated Voltage (VDC)	24		
Power Waste (W @ 20℃)	6.3	7.2	9.6
Current (A)	0.26	0.3	0.4
Braking Time	< 70ms (Standard air gap, at 20℃)		
Release Time	<25ms		
Release Voltage	18.5VDC max.(at 20℃)		



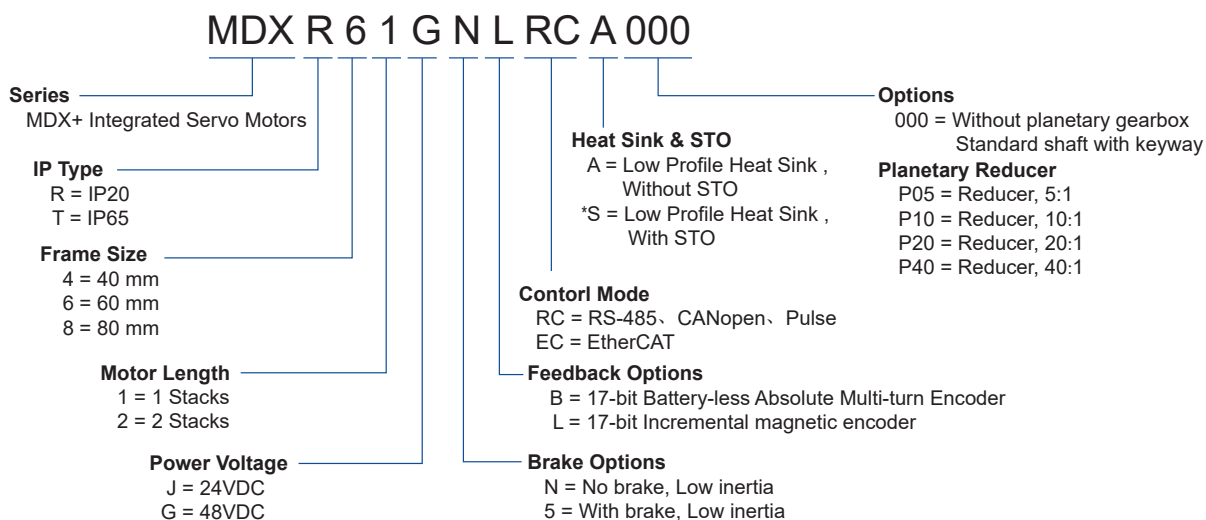
● Shaft Seal

Industrial oil seals can block contaminants (oils, impurities) to extend the life of the motor. The oil seal will produce a certain resistance to the motor shaft, about 10% torque will be lost.





■ MDX+ Numbering System



*S: With STO type is under development

■ MDX+ 产品体系

Rated Power W	Frame Size mm	Rated Speed (Max.Speed) rpm
100	40	3000 (6000)
200	60	
400	60	3000 (3900)
550	80	3000 (3600)

Basic information

■ Frame Size 40mm Specification

Type			MDXR42J□◇○A000		MDXT42J□◇○A000	
IP Rating			IP20		IP65	
Power Rating(3000rpm)			100W		100W	
Main Power Supply	Input Voltage		24V ~ 60VDC			
	Recommend Input Voltage		24VDC			
Auxiliary Power	Input Voltage		24VDC± 10%			
Withstand Voltage			Primary to earth: withstand 500 VDC, 1 min			
Environment	Temperature		◆ Ambient temperature: 0°C ~ 50°C (If the ambient temperature of servo drive is higher than 45°C, please install the drive in a well-ventilated location) ◆ Storage temperature: -20°C ~ 65°C			
	Humidity		Both operating and storage : 10 ~ 85%RH or less			
	Altitude		Lower than 1000m			
	Vibration		9.8m/s ² or less, 10 ~ 60Hz (Do not use continuously at resonance frequency)			
Encoder			◆ 17-bit Battery-less absolute encoder ◆ 17-bit Incremental magnetic encoder			
I/O	Digital Signal	Input	◆ 4 Configurable optically isolate digital general inputs, 24VDC, 20mA		◆ 2 Configurable optically isolate digital general inputs, 24VDC, 20mA	
		Output	◆ 3 Configurable optically isolate digital general outputs, Max.30VDC, 30mA		◆ 2 Configurable optically isolate digital general outputs, Max.30VDC, 30mA	
	Analog Signal	Input	1 Analog input, (-10 ~ +10V, 12-bit)			
	Pulse Signal	Input	5V, minimum pulse width 250ns, max. pulse frequency 2MHz; 24V, minimum pulse width 1μs, max. pulse frequency 500KHz		24V, minimum pulse width 1μs, max. pulse frequency 500KHz	
		Output	Line driver: 3 outputs ◆ Encoder A±, B±, Z± feedback output		No	
Comm Port	USB Mini		Connection with PC for configuration			
	EtherCAT		EtherCAT			
	CANopen		CANopen			
	RS-485		Modbus/RTU			
LED Display			Red and green status indicator			
Control Mode			◆ EtherCAT Communication control mode: CoE(compliant with CiA402 standard) supports PP, PV, TQ, CSP, CSV, CST and HM modes ◆ CANopen Communication control mode: Comply with CiA402 standard, support PP, PV, PVT, TQ and HM modes ◆ Modbus/RTU Communication control mode: Instruction position mode, instruction speed mode, instruction torque mode			
Control Input Signal			Alarm Reset, CW/CCW Limit, Gain Select, Emergency Stop, Zero Speed Clamp, Torque Limit, Speed Limit, General Purpose Input			
Control Output Signal			Warning Output, Fault Output, Servo Ready, Velocity Reached, Torque Reached, Positon Reached, Servo-on Status, Dynamic Position Error Following, Positioning Complete, Zero Speed Detected, Velocity Coincidence, Torque Coincidence, Velocity limit, Torque limit, Homing Finished, Soft Limit CW/CCW, General Purpose Output			
Protection			Over Current, Over Voltage, Low Voltage, Over Heating,Bad Encoder Feedback, Over Load,Over Speed, Position Error, Emergency Stop,CW/CCW Limit, Communication Abnormal			
Dynamic Brake			Built in			
STO* ¹			Built in			
Certification			RoHS、CE			

□: Brake Options , please refer to page 10 MDX+ Series Numbering System

◇: Encoder Options , please refer to page 10 MDX+ Series Numbering System

○: Control&Communication Options, please refer to page 10 MDX+ Series Numbering System

*1: Certain models don't support this function, please refer to page10 MDX+ Series Numbering System

■ Frame Size 60mm Specification

Type			MDXR61G□◇○A000	MDXR62G□◇○A000	MDXT61G□◇○A000	MDXT62G□◇○A000
IP Rating			IP20		IP65	
Power Rating(3000rpm)			200W	400W	200W	400W
Main Power Supply	Input Voltage		24V ~ 60VDC			
	Recommend Input Voltage		48VDC			
Auxiliary Power	Input Voltage		24VDC±10%			
Withstand Voltage			Primary to earth: withstand 500 VDC, 1 min			
Environment	Temperature		◆ Ambient temperature: 0°C ~ 50°C (If the ambient temperature of servo drive is higher than 45°C, please install the drive in a well-ventilated location) ◆ Storage temperature: -20°C ~ 65°C			
	Humidity		Both operating and storage : 10 ~ 85%RH or less			
	Altitude		Lower than 1000m			
	Vibration		9.8m/s ² or less, 10 ~ 60Hz (Do not use continuously at resonance frequency)			
Encoder			◆ 17-bit Battery-less absolute encoder ◆ 17-bit Incremental magnetic encoder			
I/O	Digital Signal	Input	◆ 4 Configurable optically isolate digital general inputs, 24VDC, 20mA		◆ 2 Configurable optically isolate digital general inputs, 24VDC, 20mA	
		Output	◆ 3 Configurable optically isolate digital general outputs, Max.30VDC, 30mA		◆ 2 Configurable optically isolate digital general outputs, Max.30VDC, 30mA	
	Analog Signal	Input	1 Analog input, (-10 ~ +10V, 12-bit)			
	Pulse Signal	Input	5V, minimum pulse width 250ns, max. pulse frequency 2MHz; 24V, minimum pulse width 1μs, max. pulse frequency 500KHz		24V, minimum pulse width 1μs, max. pulse frequency 500KHz	
		Output	Line driver: 3 outputs ◆ Encoder A±, B±, Z± feedback output		No	
	Comm Port	USB Mini		Connection with PC for configuration		
EtherCAT		EtherCAT				
CANopen		CANopen				
RS-485		Modbus/RTU				
LED Display			Red and green status indicator			
Control Mode			◆ EtherCAT Communication control mode: CoE(compliant with CiA402 standard) supports PP, PV, TQ, CSP, CSV, CST and HM modes ◆ CANopen Communication control mode: Comply with CiA402 standard, support PP, PV, PVT, TQ and HM modes ◆ Modbus/RTU Communication control mode: Instruction position mode, instruction speed mode, instruction torque mode			
Control Input Signal			Alarm Reset, CW/CCW Limit, Gain Select, Emergency Stop, Zero Speed Clamp, Torque Limit, Speed Limit, General Purpose Input			
Control Output Signal			Warning Output, Fault Output, Servo Ready, Velocity Reached, Torque Reached, Positon Reached, Servo-on Status, Dynamic Position Error Following, Positioning Complete, Zero Speed Detected, Velocity Coincidence, Torque Coincidence, Velocity limit, Torque limit, Homing Finished, Soft Limit CW/CCW, General Purpose Output			
Protection			Over Current, Over Voltage, Low Voltage, Over Heating,Bad Encoder Feedback, Over Load,Over Speed, Position Error, Emergency Stop,CW/CCW Limit, Communication Abnormal			
Dynamic Brake			Built in			
STO*1			Built in			
Certification			RoHS、CE			

□: Brake Options , please refer to page 10 MDX+ Series Numbering System

◇: Encoder Options , please refer to page 10 MDX+ Series Numbering System

○: Control&Communication Options, please refer to page 10 MDX+ Series Numbering System

*1: Certain models don't support this function, please refer to page10 MDX+ Series Numbering System

■ Frame Size 80mm Specification

Type			MDXR82G□◇○A000		MDXT82G□◇○A000	
IP Rating			IP20		IP65	
Power Rating(3000rpm)			550W		550W	
Main Power Supply	Input Voltage		24V ~ 60VDC			
	Recommend Input Voltage		48VDC			
Auxiliary Power	Input Voltage		24VDC± 10%			
Withstand Voltage			Primary to earth: withstand 500 VDC, 1 min			
Environment	Temperature		◆ Ambient temperature: 0°C ~ 50°C (If the ambient temperature of servo drive is higher than 45°C, please install the drive in a well-ventilated location) ◆ Storage temperature: -20°C ~ 65°C			
	Humidity		Both operating and storage : 10 ~ 85%RH or less			
	Altitude		Lower than 1000m			
	Vibration		9.8m/s ² or less, 10 ~ 60Hz (Do not use continuously at resonance frequency)			
Encoder			◆ 17-bit Battery-less absolute encoder ◆ 17-bit Incremental magnetic encoder			
I/O	Digital Signal	Input	◆ 4 Configurable optically isolate digital general inputs, 24VDC, 20mA		◆ 2 Configurable optically isolate digital general inputs, 24VDC, 20mA	
		Output	◆ 3 Configurable optically isolate digital general outputs, Max.30VDC, 30mA		◆ 2 Configurable optically isolate digital general outputs, Max.30VDC, 30mA	
	Analog Signal	Input	1 Analog input, (-10 ~ +10V, 12-bit)			
	Pulse Signal	Input	5V, minimum pulse width 250ns, max. pulse frequency 2MHz; 24V, minimum pulse width 1μs, max. pulse frequency 500KHz		24V, minimum pulse width 1μs, max. pulse frequency 500KHz	
		Output	Line driver: 3 outputs ◆ Encoder A±, B±, Z± feedback output		No	
Comm Port	USB Mini		Connection with PC for configuration			
	EtherCAT		EtherCAT			
	CANopen		CANopen			
	RS-485		Modbus/RTU			
LED Display			Red and green status indicator			
Control Mode			◆ EtherCAT Communication control mode: CoE(compliant with CiA402 standard) supports PP, PV, TQ, CSP, CSV, CST and HM modes ◆ CANopen Communication control mode: Comply with CiA402 standard, support PP, PV, PVT, TQ and HM modes ◆ Modbus/RTU Communication control mode: Instruction position mode, instruction speed mode, instruction torque mode			
Control Input Signal			Alarm Reset, CW/CCW Limit, Gain Select, Emergency Stop, Zero Speed Clamp, Torque Limit, Speed Limit, General Purpose Input			
Control Output Signal			Warning Output, Fault Output, Servo Ready, Velocity Reached, Torque Reached, Positon Reached, Servo-on Status, Dynamic Position Error Following, Positioning Complete, Zero Speed Detected, Velocity Coincidence, Torque Coincidence, Velocity limit, Torque limit, Homing Finished, Soft Limit CW/CCW, General Purpose Output			
Protection			Over Current, Over Voltage, Low Voltage, Over Heating,Bad Encoder Feedback, Over Load,Over Speed, Position Error, Emergency Stop,CW/CCW Limit, Communication Abnormal			
Dynamic Brake			Built in			
STO* ¹			Built in			
Certification			RoHS、CE			

□: Brake Options , please refer to page 10 MDX+ Series Numbering System

◇: Encoder Options , please refer to page 10 MDX+ Series Numbering System

○: Control&Communication Options, please refer to page 10 MDX+ Series Numbering System

*1: Certain models don't support this function, please refer to page 10 MDX+ Series Numbering System

■ Frame Size 40mm—Compact IP20 Type -RC--RS-485, CANopen, Pluse



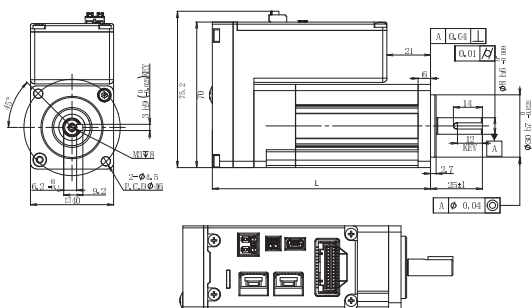
- IP20 Rating
- Frame Size: 40mm
- Power Rating: 100W
- 6 Digital Inputs
- 3 Digital Outputs
- 1 Analog Inputs
- Standard Shaft with Keyway
- Without Gearbox

Type		MDXR42J□◇RCA000
Winding Type	VDC	24
Nominal Supply Voltage	VDC	24
Rated Speed	rpm	3000
Power Rating (at 3000rpm)	W	100
Continuous Torque	N·m	0.32
Peak Torque	N·m	0.96
Rotor Inertia	kg.m ²	0.0428 x 10 ⁻⁴
Rotor Inertia-with Brake	kg.m ²	0.0457 x 10 ⁻⁴
Shaft Load - Axial	N(max.)	50
Shaft Load - Radial (End of Shaft)	N(max.)	60
Weight	kg	MDXR42JN◇RCA000: 0.7
		MDXR42J5LRCA000: 1.1
		MDXR42J5BRCA000: 1.3

□ : Brake Options; ◇ : Encoder Options

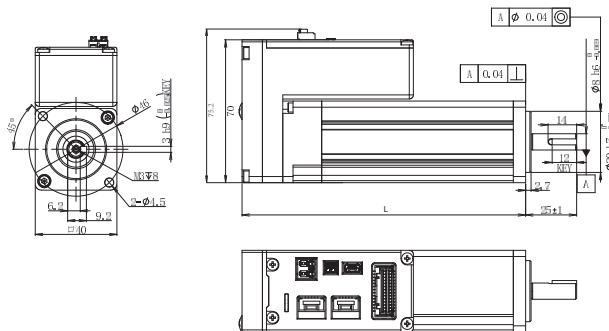
□ Dimensions (Unit: mm)

1) Without Brake



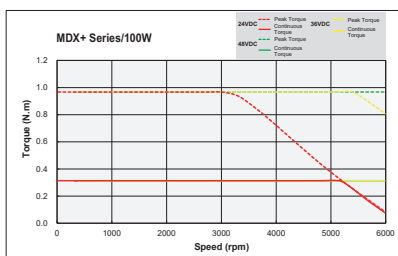
Without Brake	L
MDXR42JNLRCA000	105
MDXR42JNBRCA000	115

2) With Brake



With Brake	L
MDXR42J5LRCA000	140
MDXR42J5BRCA000	150

□ Torque Curves



■ Frame Size 40mm—Compact IP65 Type -RC--RS-485, CANopen, Pluse



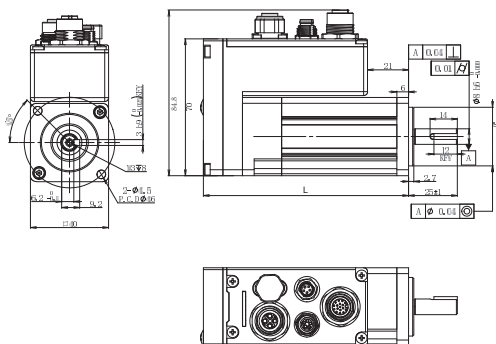
- IP65 Rating
- Frame Size: 40mm
- Power Rating: 100W
- 4 Digital Inputs
- 2 Digital Outputs
- 1 Analog Inputs
- Standard Shaft with Keyway
- Without Gearbox

Type		MDXT42J□◇RCA000
Winding Type	VDC	24
Nominal Supply Voltage	VDC	24
Rated Speed	rpm	3000
Power Rating (at 3000rpm)	W	100
Continuous Torque	N·m	0.32
Peak Torque	N·m	0.96
Rotor Inertia	kg.m ²	0.0428 x 10 ⁻⁴
Rotor Inertia-with Brake	kg.m ²	0.0457 x 10 ⁻⁴
Shaft Load - Axial	N(max.)	50
Shaft Load - Radial (End of Shaft)	N(max.)	60
Weight	kg	MDXT42JN◇RCA000: 0.7
		MDXT42JLBRCA000: 1.1
		MDXT42J5BRCA000: 1.3

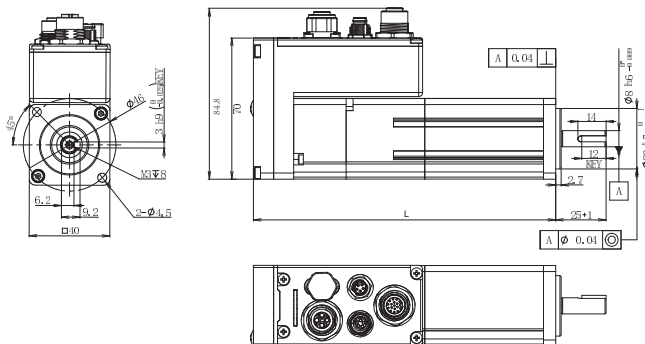
□ : Brake Options; ◇ : Encoder Options

□ Dimensions (Unit: mm)

1) Without Brake



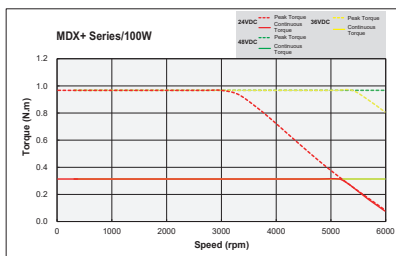
2) With Brake



Without Brake	L
MDXT42JNLRC000	105
MDXT42JNBRC000	115

With Brake	L
MDXT42J5LRC000	140
MDXT42J5BRC000	150

□ Torque Curves



■ Frame Size 40mm—Compact IP65 Type -EC--EtherCAT



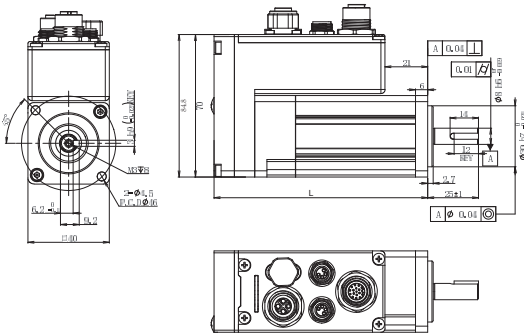
- IP65 Rating
- Frame Size: 40mm
- Power Rating: 100W
- 4 Digital Inputs
- 2 Digital Outputs
- 1 Analog Inputs
- Standard Shaft with Keyway
- Without Gearbox

Type		MDXT42J□◇ECA000
Winding Type	VDC	24
Nominal Supply Voltage	VDC	24
Rated Speed	rpm	3000
Power Rating (at 3000rpm)	W	100
Continuous Torque	N·m	0.32
Peak Torque	N·m	0.96
Rotor Inertia	kg.m ²	0.0428 x 10 ⁻⁴
Rotor Inertia-with Brake	kg.m ²	0.0457 x 10 ⁻⁴
Shaft Load - Axial	N(max.)	50
Shaft Load - Radial (End of Shaft)	N(max.)	60
Weight	kg	MDXT42JN◇ECA000: 0.7
		MDXT42JLBECA000: 1.1
		MDXT42J5BECA000: 1.3

□ : Brake Options; ◇ : Encoder Options

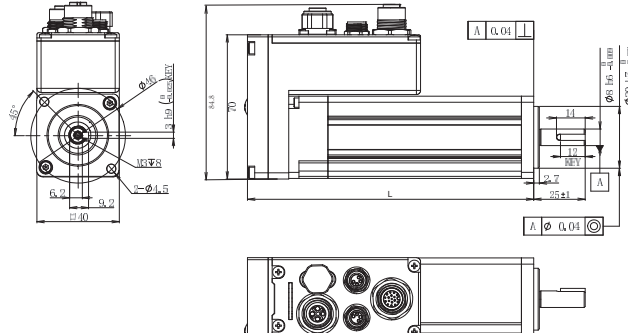
□ Dimensions (Unit: mm)

1) Without Brake



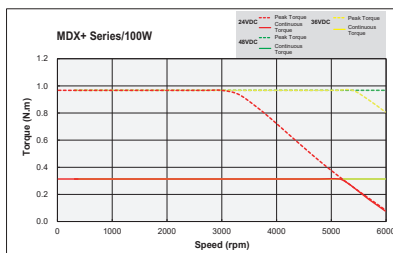
Without Brake	L
MDXT42JNLECA000	105
MDXT42JNBECA000	115

2) With Brake



With Brake	L
MDXT42J5LECA000	140
MDXT42J5BECA000	150

□ Torque Curves



■ Frame Size 60mm—Compact IP20 Type -RC--RS-485, CANopen, Pluse



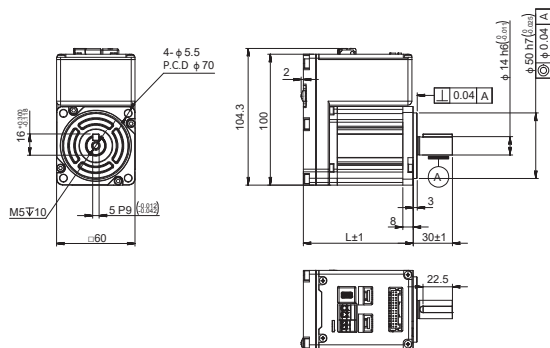
- IP20 Rating
- Frame Size: 60mm
- Power Rating: 200W, 400W
- 6 Digital Inputs
- 3 Digital Outputs
- 1 Analog Inputs
- Standard Shaft with Keyway
- Without Gearbox

Type		MDXR61G□◇RCA000		MDXR62G□◇RCA000	
Winding Type	VDC	48		48	
Nominal Supply Voltage	VDC	24	48	24	48
Rated Speed	rpm	2000	3000	1600	3000
Power Rating (at 3000rpm)	W	200		400	
Continuous Torque	N·m	0.64		1.27	
Peak Torque	N·m	1.9		3.8	
Rotor Inertia	kg.m ²	0.156 x 10 ⁻⁴		0.272 x 10 ⁻⁴	
Rotor Inertia-with Brake	kg.m ²	0.162 x 10 ⁻⁴		0.327 x 10 ⁻⁴	
Shaft Load - Axial	N(max.)	70		70	
Shaft Load - Radial (End of Shaft)	N(max.)	200		240	
Weight	kg	MDXR61GNL RCA000: 1.2		MDXR62GNL RCA000: 1.6	
		MDXR61GNB RCA000: 1.4		MDXR62GNB RCA000: 1.9	
		MDXR61G5◇RCA000: 1.8		MDXR62G5◇RCA000: 2.3	

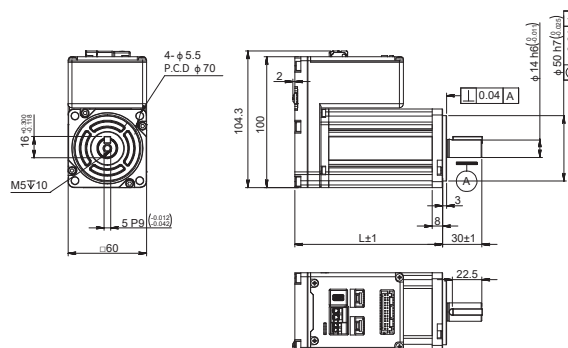
□ : Brake Options; ◇ : Encoder Options

□ Dimensions (Unit: mm)

1) Without Brake



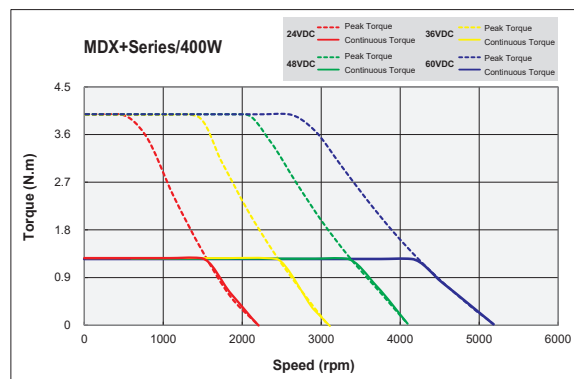
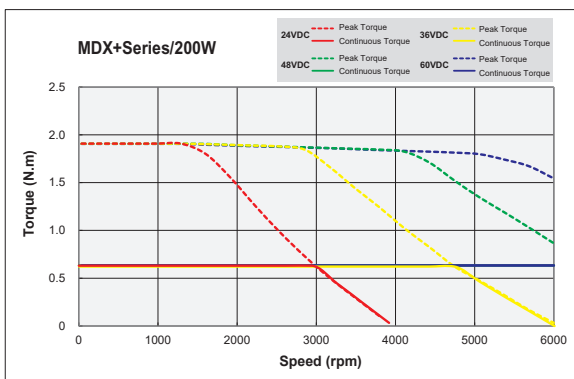
2) With Brake



Without Brake	L
MDXR61GNL RCA000	84
MDXR61GNB RCA000	108.5
MDXR62GNL RCA000	113
MDXR62GNB RCA000	137.5

With Brake	L
MDXR61G5L RCA000	148
MDXR61G5B RCA000	148
MDXR62G5L RCA000	177
MDXR62G5B RCA000	177

□ Torque Curves



■ Frame Size 60mm—Compact IP20 Type -EC--EtherCAT



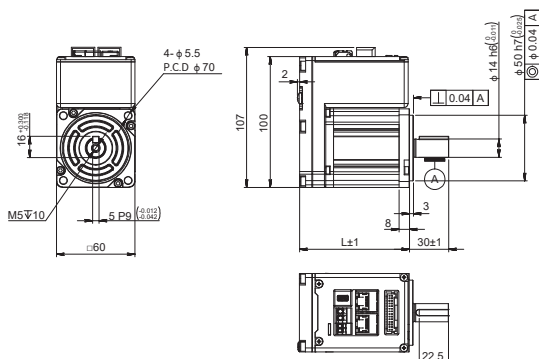
- IP20 Rating
- Frame Size: 60mm
- Power Rating: 200W, 400W
- 6 Digital Inputs
- 3 Digital Outputs
- 1 Analog Inputs
- Standard Shaft with Keyway
- Without Gearbox

Type		MDXR61G□◇ECA000		MDXR62G□◇ECA000	
Winding Type	VDC	48		48	
Nominal Supply Voltage	VDC	24	48	24	48
Rated Speed	rpm	2000	3000	1600	3000
Power Rating (at 3000rpm)	W	200		400	
Continuous Torque	N·m	0.64		1.27	
Peak Torque	N·m	1.9		3.8	
Rotor Inertia	kg·m ²	0.156 x 10 ⁻⁴		0.272 x 10 ⁻⁴	
Rotor Inertia-with Brake	kg·m ²	0.162 x 10 ⁻⁴		0.327 x 10 ⁻⁴	
Shaft Load - Axial	N(max.)	70		70	
Shaft Load - Radial (End of Shaft)	N(max.)	200		240	
Weight	kg	MDXR61GNLECA000: 1.2		MDXR62GNLECA000: 1.6	
		MDXR61GNBECA000: 1.4		MDXR62GNBECA000: 1.9	
		MDXR61G5◇ECA000: 1.8		MDXR62G5◇ECA000: 2.3	

□ : Brake Options; ◇ : Encoder Options

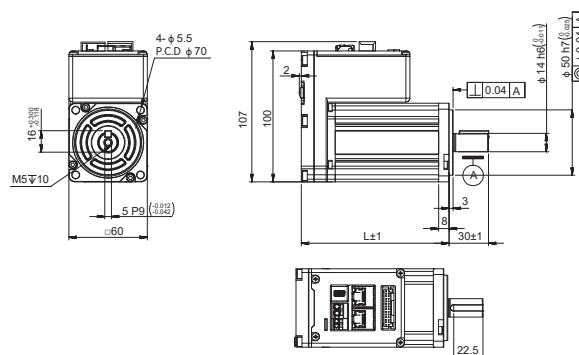
□ Dimensions (Unit: mm)

1) Without Brake



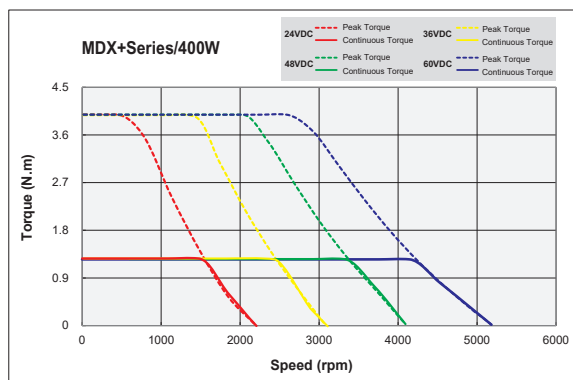
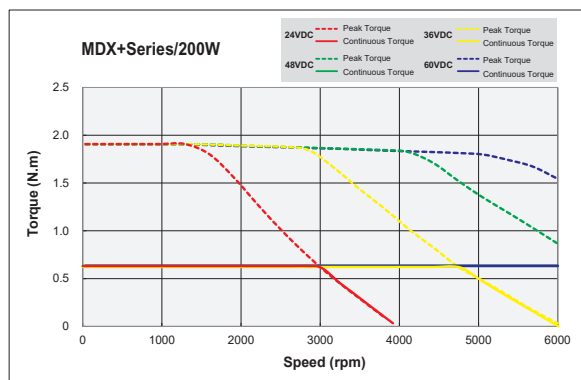
Without Brake	L
MDXR61GNLECA000	84
MDXR61GNBECA000	108.5
MDXR62GNLECA000	113
MDXR62GNBECA000	137.5

2) With Brake



With Brake	L
MDXR61G5LECA000	148
MDXR61G5BECA000	148
MDXR62G5LECA000	177
MDXR62G5BECA000	177

□ Torque Curves



■ Frame Size 60mm—Compact IP65 Type -RC--RS-485, CANopen, Pluse



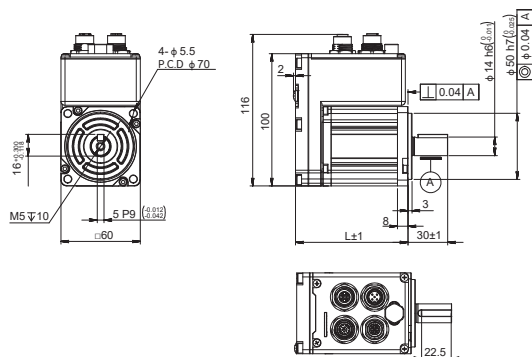
- IP65 Rating
- Frame Size: 60mm
- Power Rating: 200W, 400W
- 4 Digital Inputs
- 2 Digital Outputs
- 1 Analog Inputs
- Standard Shaft with Keyway
- Without Gearbox

Type		MDXT61G□◇RCA000		MDXT62G□◇RCA000	
Winding Type	VDC	48VDC		48VDC	
Nominal Supply Voltage	VDC	24	48	24	48
Rated Speed	rpm	2000	3000	1600	3000
Power Rating (at 3000rpm)	W	200		400	
Continuous Torque	N·m	0.64		1.27	
Peak Torque	N·m	1.9		3.8	
Rotor Inertia	kg·m ²	0.156 x 10 ⁻⁴		0.3x 10 ⁻⁴	
Rotor Inertia-with Brake	kg·m ²	0.162 x 10 ⁻⁴		0.327 x 10 ⁻⁴	
Shaft Load - Axial	N(max.)	70		70	
Shaft Load - Radial (End of Shaft)	N(max.)	200		240	
Weight	kg	MDXT61GNLRCA000: 1.2		MDXT62GNLRCA000: 1.7	
		MDXT61GNBRCA000: 1.4		MDXT62GNBRCA000: 1.9	
		MDXT61G5◇RCA000: 1.8		MDXT62G5◇RCA000: 2.3	

□ : Brake Options; ◇ : Encoder Options

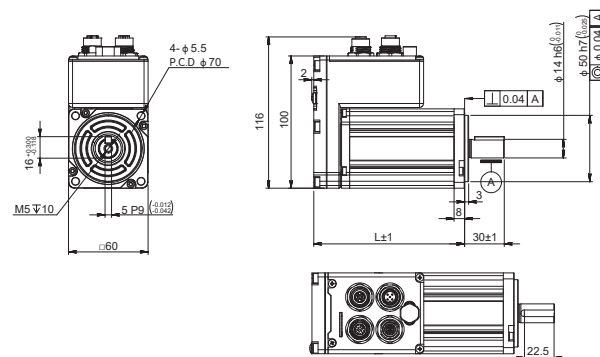
□ Dimensions (Unit: mm)

1) Without Brake



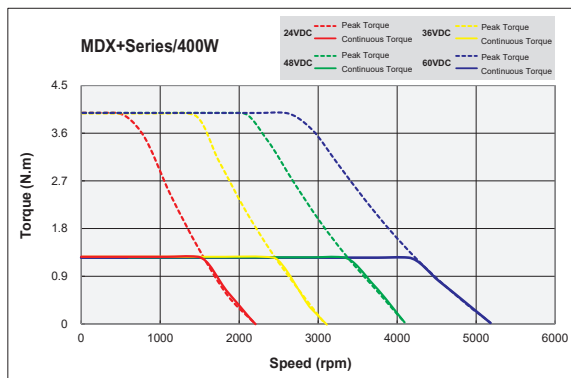
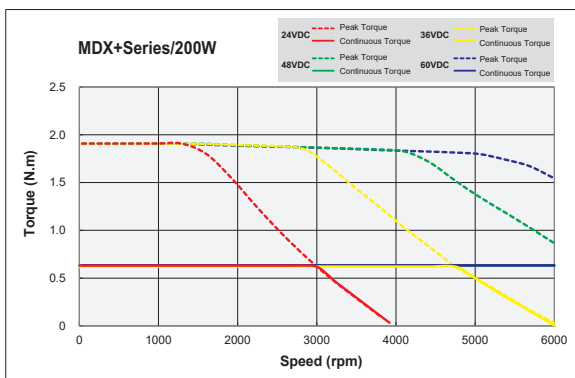
Without Brake	L
MDXT61GNLRCA000	85
MDXT61GNBRCA000	110.5
MDXT62GNLRCA000	114
MDXT62GNBRCA000	139.5

2) With Brake



With Brake	L
MDXT61G5LRCA000	150
MDXT61G5BRCA000	150
MDXT62G5LRCA000	179
MDXT62G5BRCA000	179

□ Torque Curves



■ Frame Size 60mm—Compact IP65 Type -EC--EtherCAT



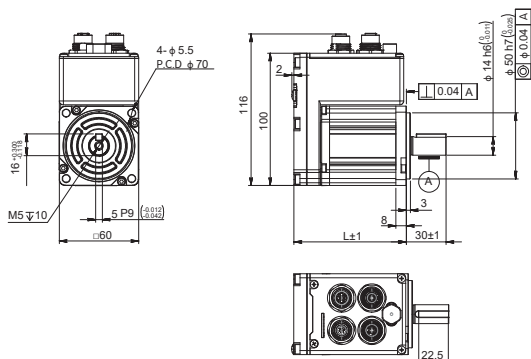
- IP65 Rating
- Frame Size: 60mm
- Power Rating: 200W, 400W
- 4 Digital Inputs
- 2 Digital Outputs
- 1 Analog Inputs
- Standard Shaft with Keyway
- Without Gearbox

Type		MDXT61G□◇ECA000		MDXT62G□◇ECA000	
Winding Type	VDC	48VDC		48VDC	
Nominal Supply Voltage	VDC	24	48	24	48
Rated Speed	rpm	2000	3000	1600	3000
Power Rating (at 3000rpm)	W	200		400	
Continuous Torque	N·m	0.64		1.27	
Peak Torque	N·m	1.9		3.8	
Rotor Inertia	kg.m ²	0.156 x 10 ⁻⁴		0.3 x 10 ⁻⁴	
Rotor Inertia-with Brake	kg.m ²	0.162 x 10 ⁻⁴		0.327 x 10 ⁻⁴	
Shaft Load - Axial	N(max.)	70		70	
Shaft Load - Radial (End of Shaft)	N(max.)	200		240	
Weight	kg	MDXT61GNLECA000: 1.2		MDXT62GNLECA000: 1.7	
		MDXT61GNBECA000: 1.4		MDXT62GNBECA000: 1.9	
		MDXT61G5◇ECA000: 1.8		MDXT62G5◇ECA000: 2.3	

□ : Brake Options; ◇ : Encoder Options

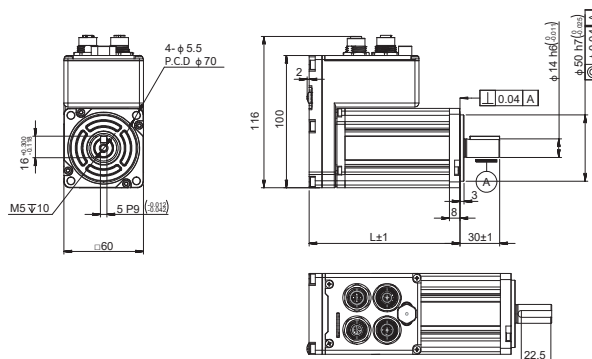
□ Dimensions (Unit: mm)

1) Without Brake



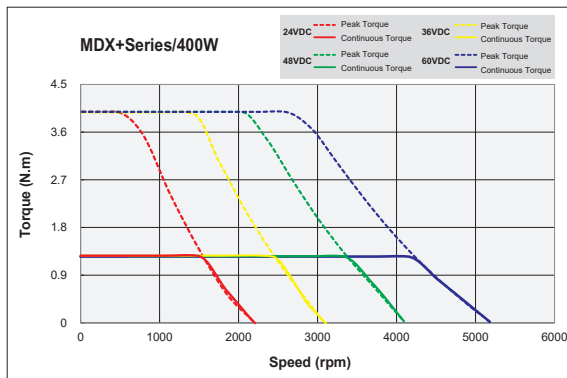
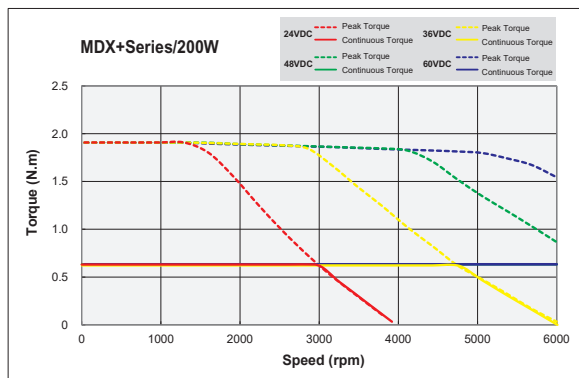
Without Brake	L
MDXT61GNLECA000	85
MDXT61GNBECA000	110.5
MDXT62GNLECA000	114
MDXT62GNBECA000	139.5

2) With Brake



With Brake	L
MDXT61G5LECA000	150
MDXT61G5BECA000	150
MDXT62G5LECA000	179
MDXT62G5BECA000	179

□ Torque Curves



■ Frame Size 80mm—Compact IP65 Type -RC--RS-485, CANopen, Pluse



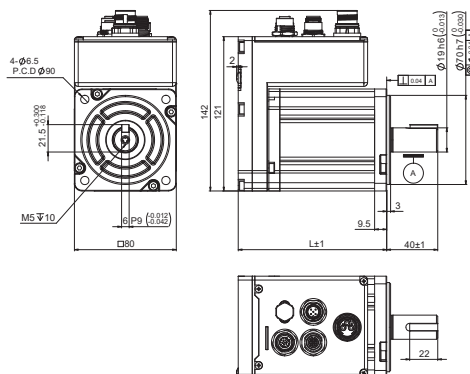
- IP65 Rating
- Frame Size: 80mm
- Power Rating: 550W
- 4 Digital Inputs
- 2 Digital Outputs
- 1 Analog Inputs
- Standard Shaft with Keyway
- Without Gearbox

Type		MDXT82G□◇RCA000	
Winding Type	VDC	48	
Nominal Supply Voltage	VDC	48	
Rated Speed	rpm	3000	
Power Rating (at 3000rpm)	W	550	
Continuous Torque	N·m	1.8	
Peak Torque	N·m	7.2	
Rotor Inertia	kg·m ²	0.85 x 10 ⁻⁴	
Rotor Inertia-with Brake	kg·m ²	0.927 x 10 ⁻⁴	
Shaft Load - Axial	N(max.)	90	
Shaft Load - Radial (End of Shaft)	N(max.)	270	
Weight	kg	MDXT82GNLRCA000: 2.6	
		MDXT82GNBRCA000: 2.8	
		MDXT82G5◇RCA000: 3.2	

□ : Brake Options; ◇ : Encoder Options

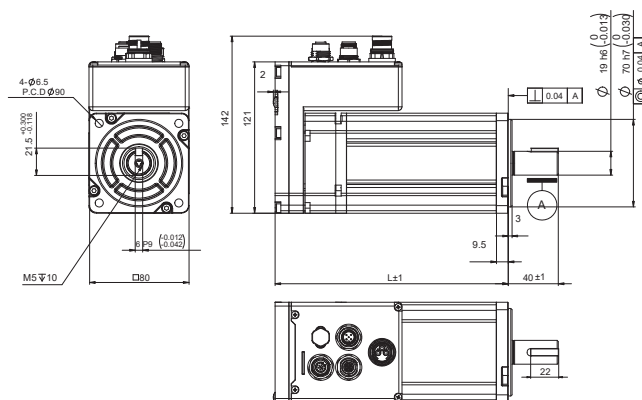
□ Dimensions (Unit: mm)

1) Without Brake



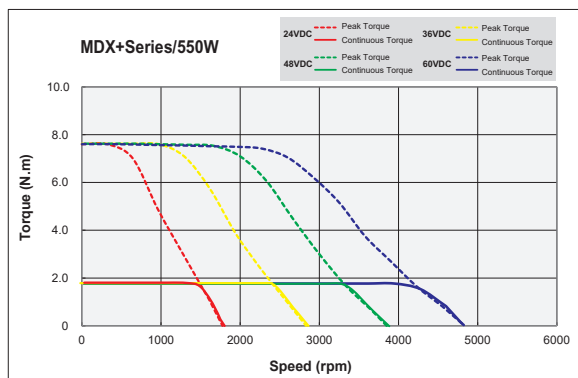
Without Brake	L
MDXT82GNLRCA000	116.5
MDXT82GNBRCA000	141

2) With Brake



With Brake	L
MDXT82G5LRCA000	186.5
MDXT82G5BRCA000	186.5

□ Torque Curves



■ Frame Size 80mm—Compact IP65 Type -EC--EtherCAT



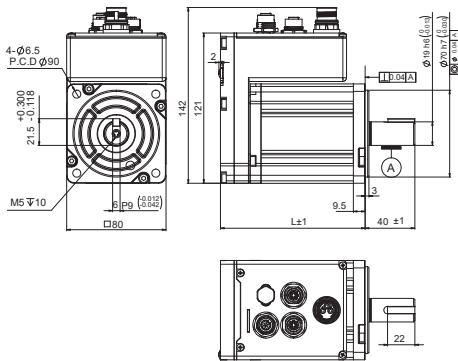
- IP65 Rating
- Frame Size: 80mm
- Power Rating: 550W
- 4 Digital Inputs
- 2 Digital Outputs
- 1 Analog Inputs
- Standard Shaft with Keyway
- Without Gearbox

Type		MDXT82G□◇ECA000
Winding Type	VDC	48
Nominal Supply Voltage	VDC	48
Rated Speed	rpm	3000
Power Rating (at 3000rpm)	W	550
Continuous Torque	N·m	1.8
Peak Torque	N·m	7.2
Rotor Inertia	kg·m ²	0.85 x 10 ⁻⁴
Rotor Inertia-with Brake	kg·m ²	0.927 x 10 ⁻⁴
Shaft Load - Axial	N(max.)	90
Shaft Load - Radial (End of Shaft)	N(max.)	270
Weight	kg	MDXT82GNLECA000: 2.6
		MDXT82GNBECA000: 2.8
		MDXT82G5◇ECA000: 3.2

□ : Brake Options; ◇ : Encoder Options

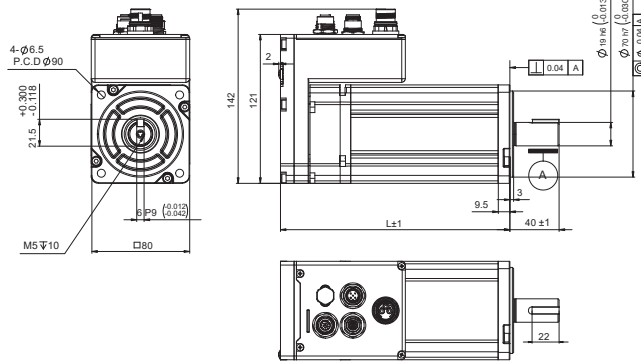
□ Dimensions (Unit: mm)

1) Without Brake



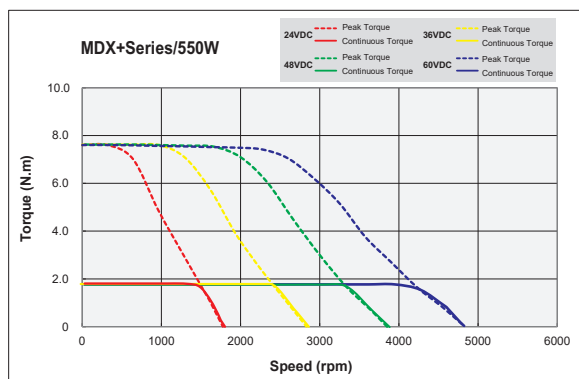
Without Brake	L
MDXT82GNLECA000	116.5
MDXT82GNBECA000	141

2) With Brake



With Brake	L
MDXT82G5LECA000	186.5
MDXT82G5BECA000	186.5

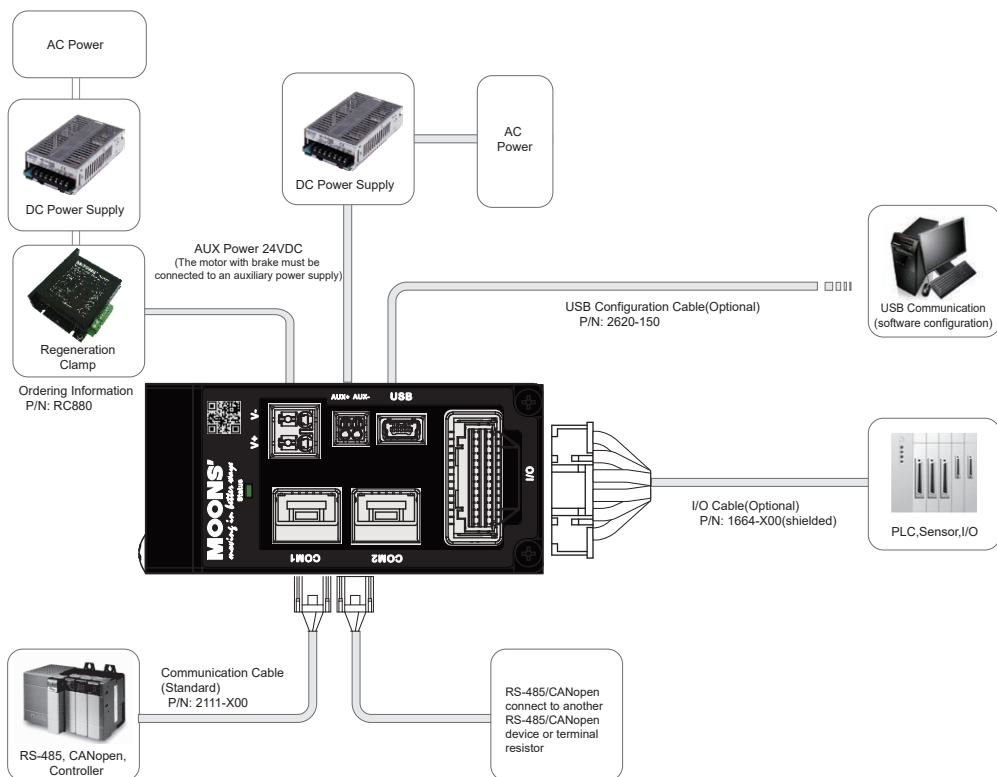
□ Torque Curves



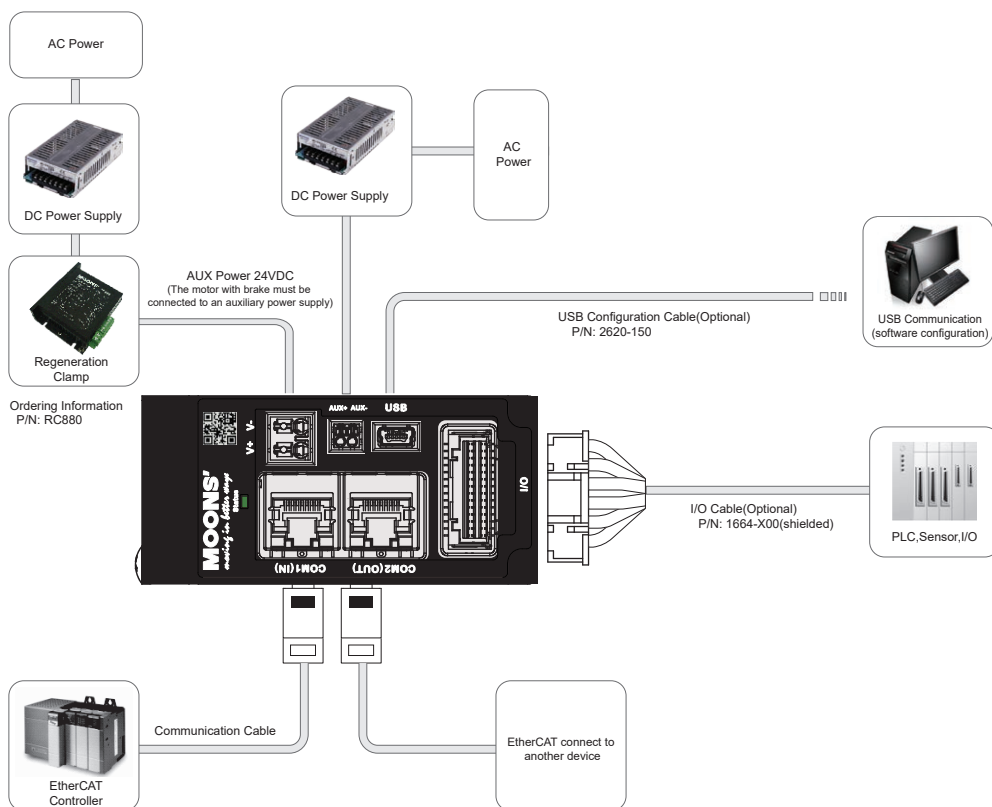
IP20 System Configuration

■ 40mm (100W)

● RC--RS-485, CANopen, Pluse



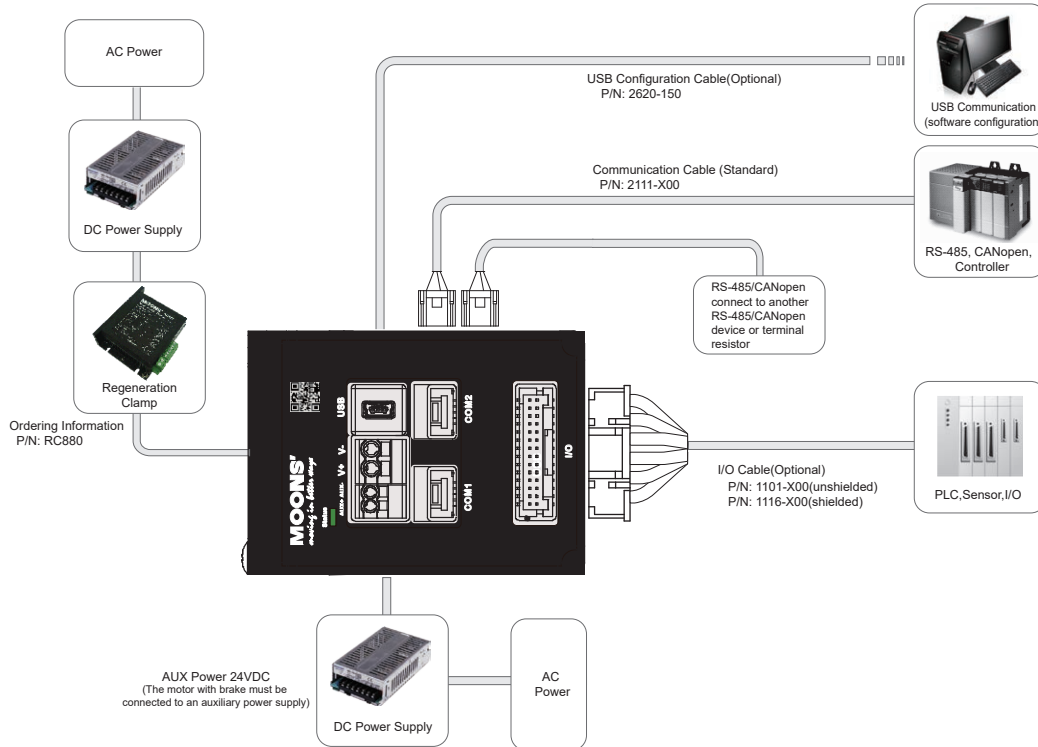
● EC--EtherCAT



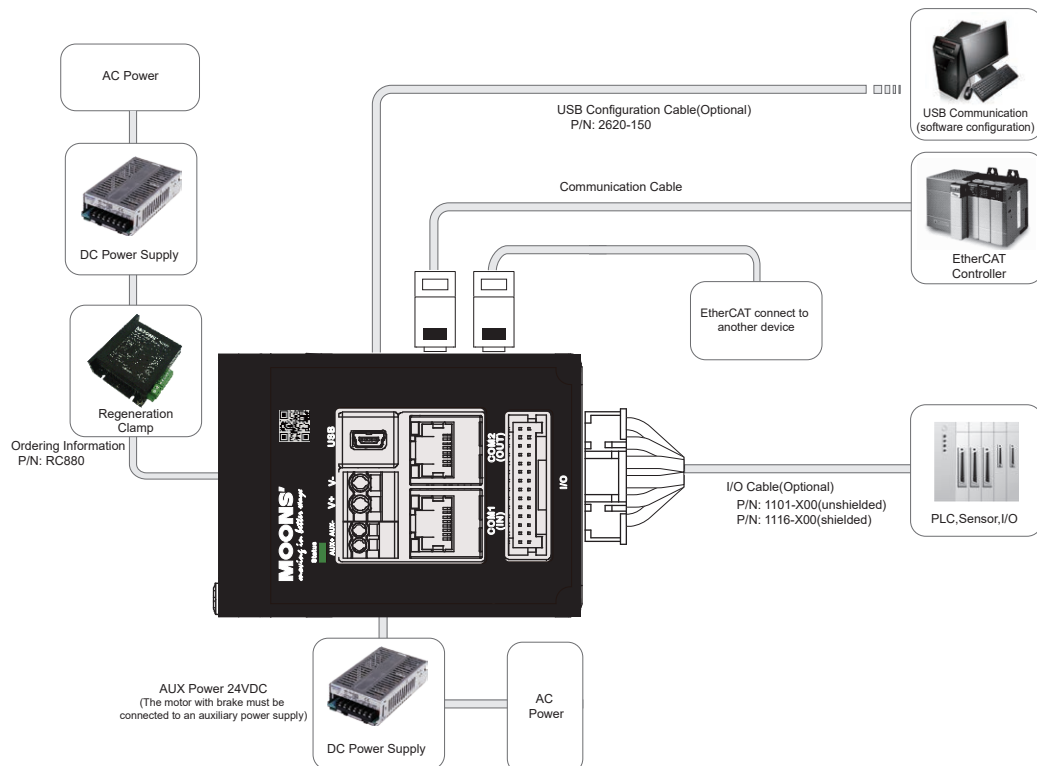
IP20 System Configuration

■ 60mm (200W/400W)

● RC--RS-485, CANopen, Pluse



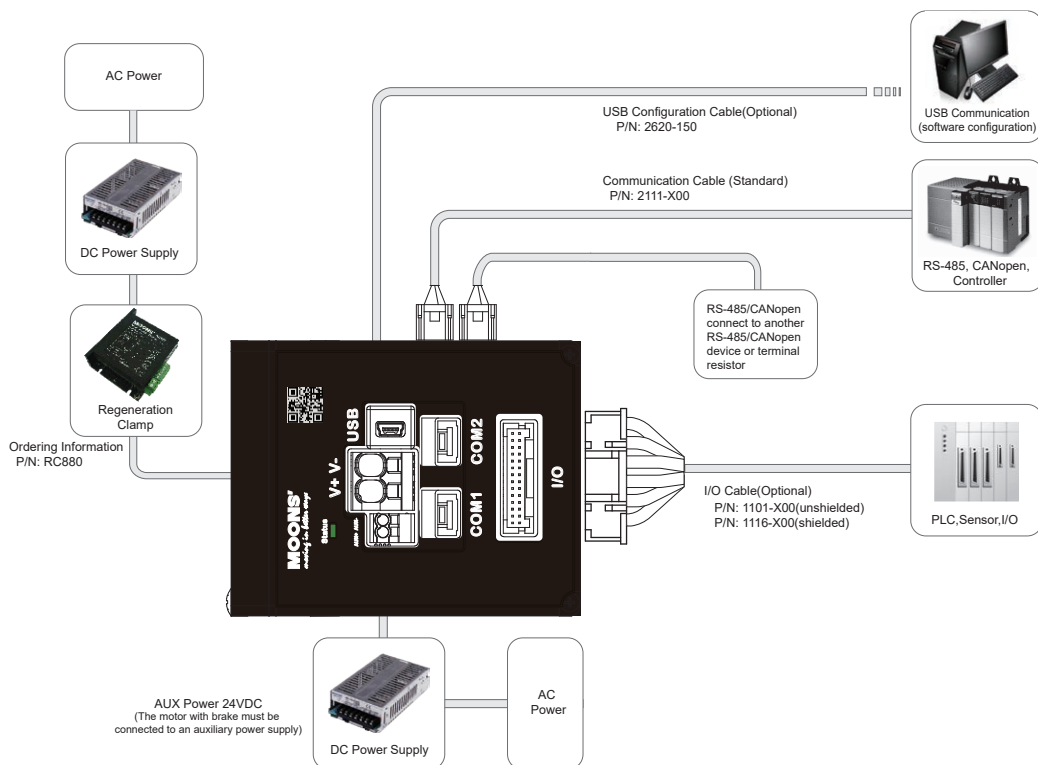
● EC--EtherCAT



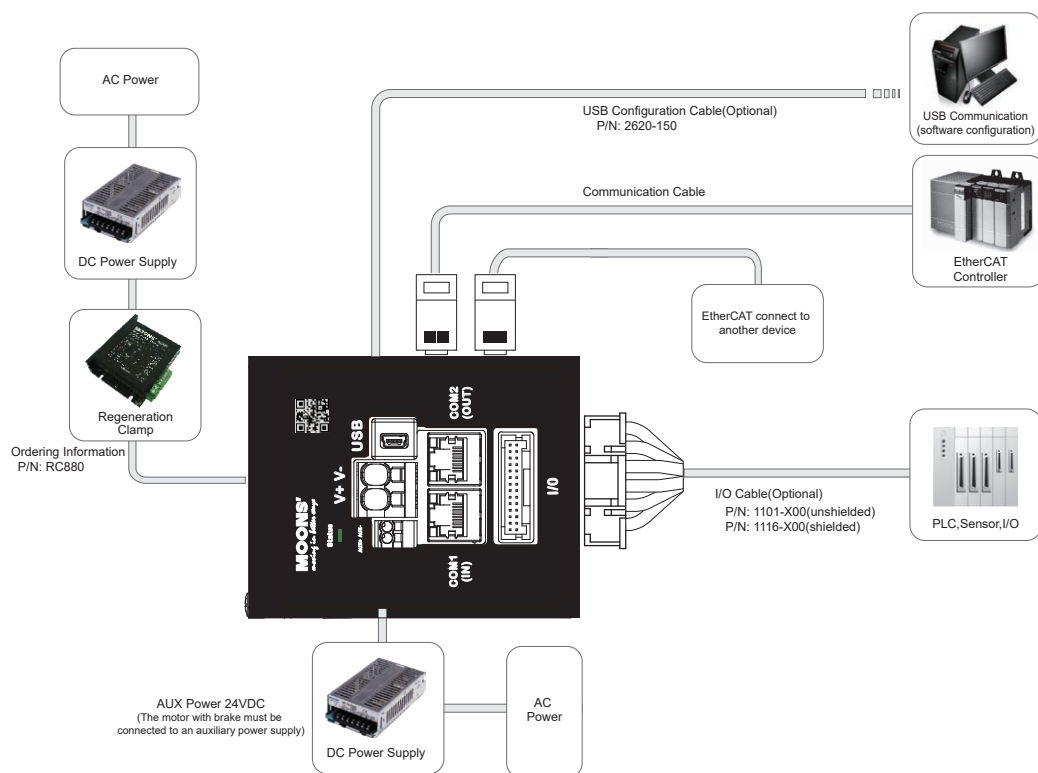
IP20 System Configuration

■ 80mm (550W)

● RC--RS-485, CANopen, Pluse



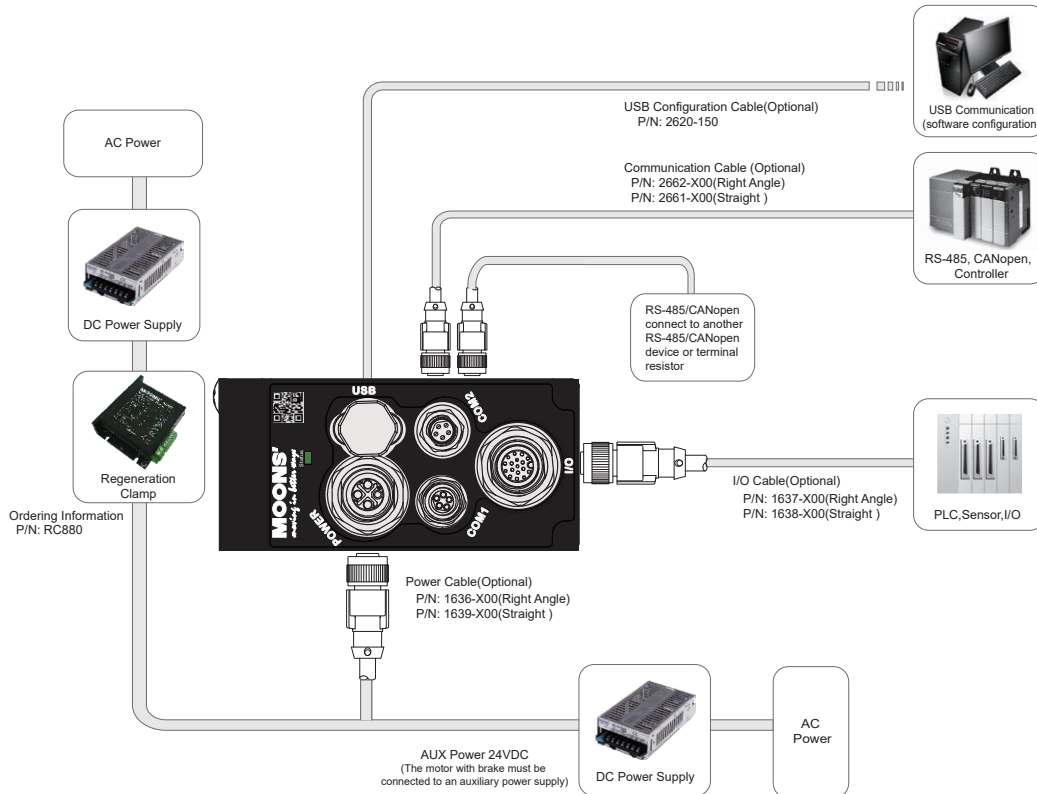
● EC--EtherCAT



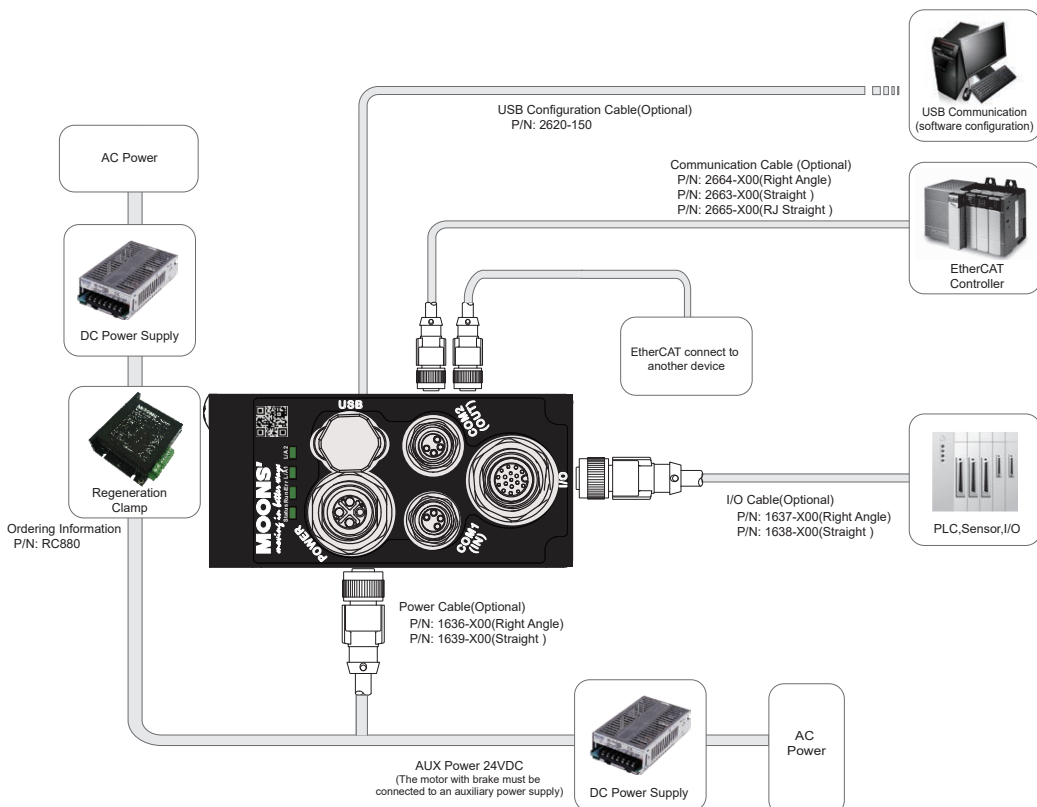
IP65 System Configuration

■ 40mm (100W)

● RC--RS-485, CANopen, Pluse



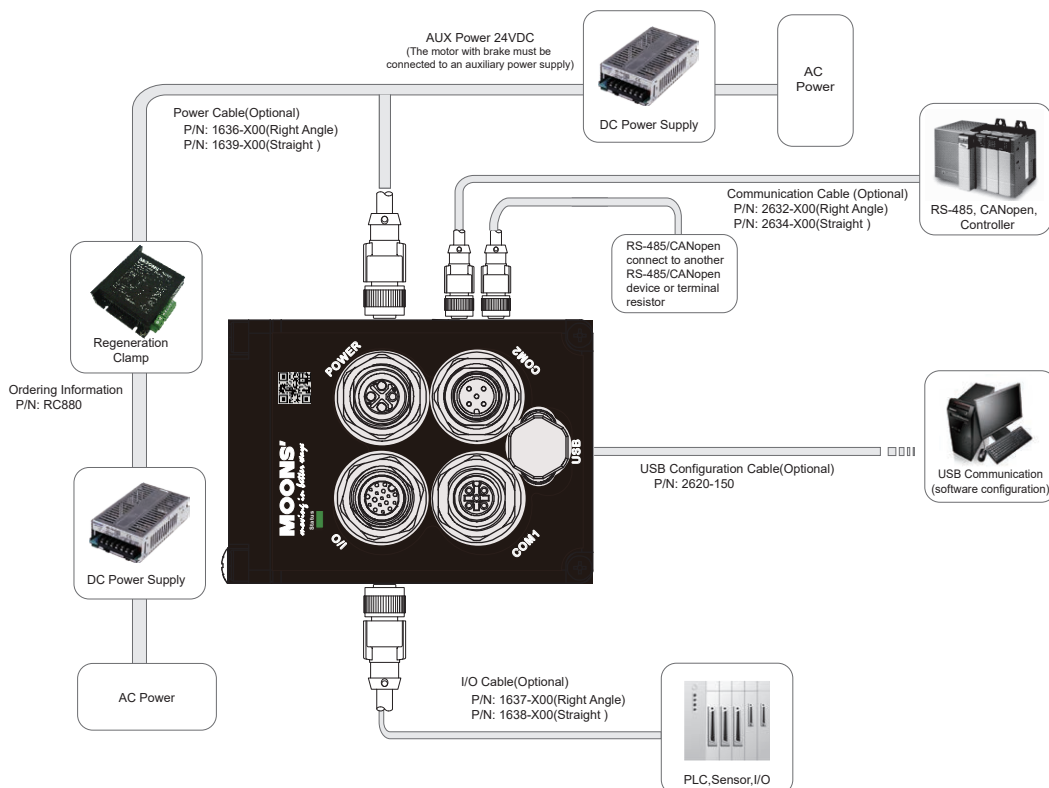
● EC--EtherCAT



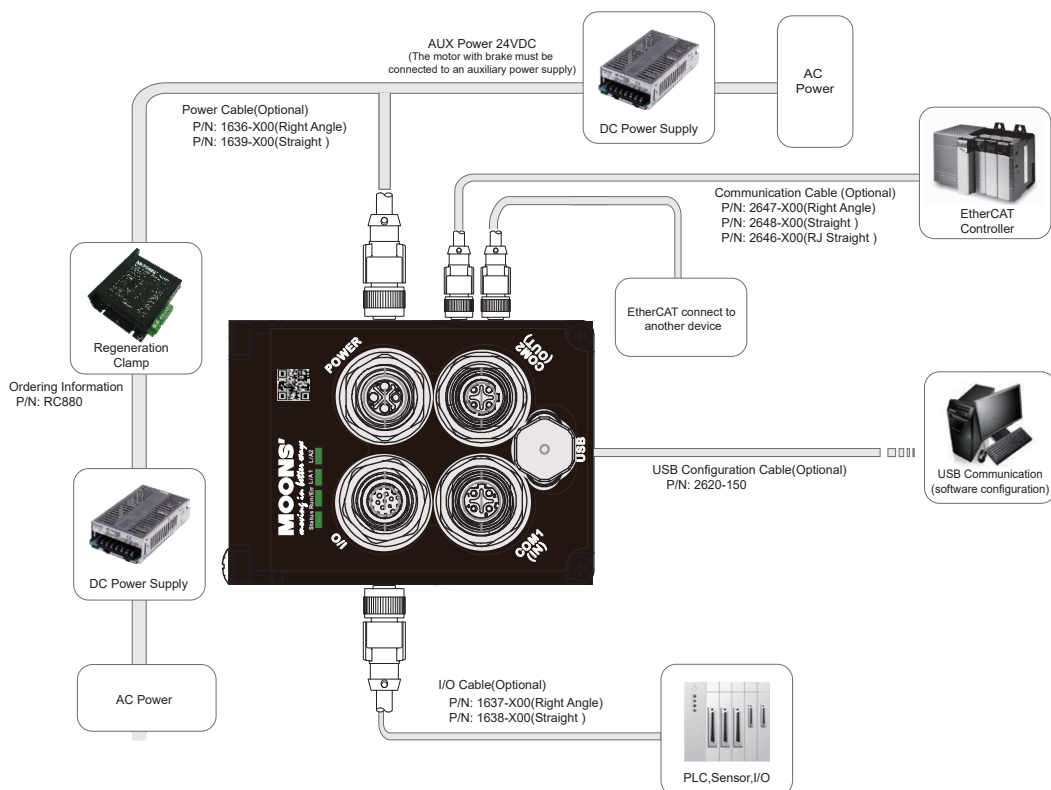
IP65 System Configuration

■ 60mm (200W/400W)

● RC--RS-485, CANopen, Pluse



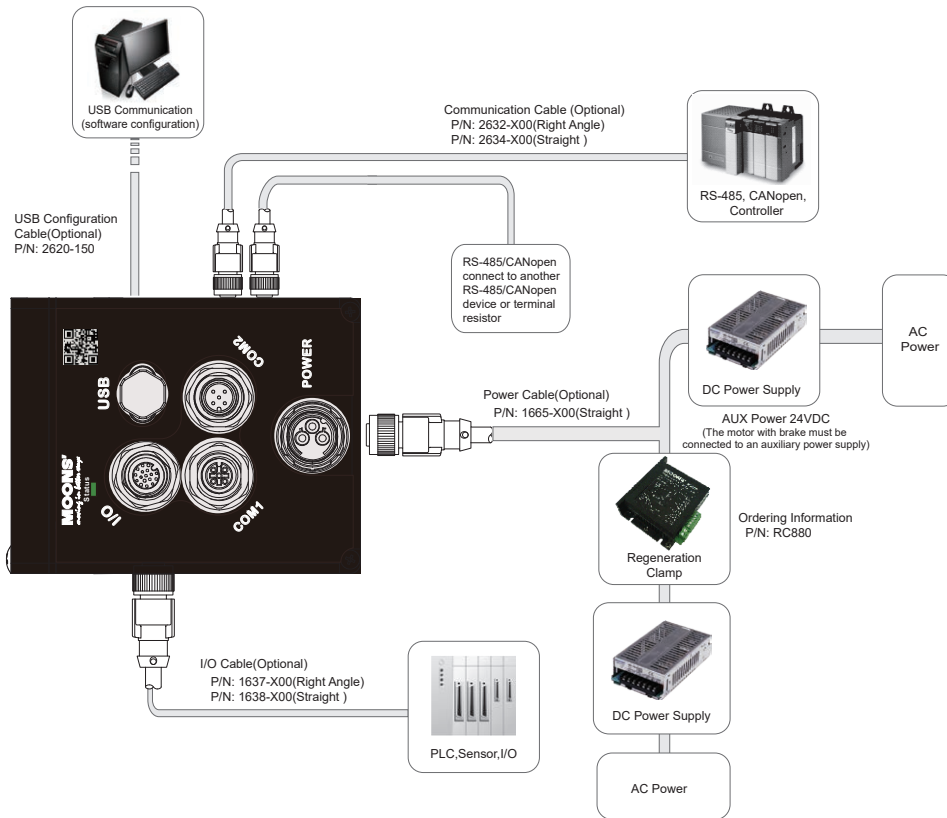
● EC--EtherCAT



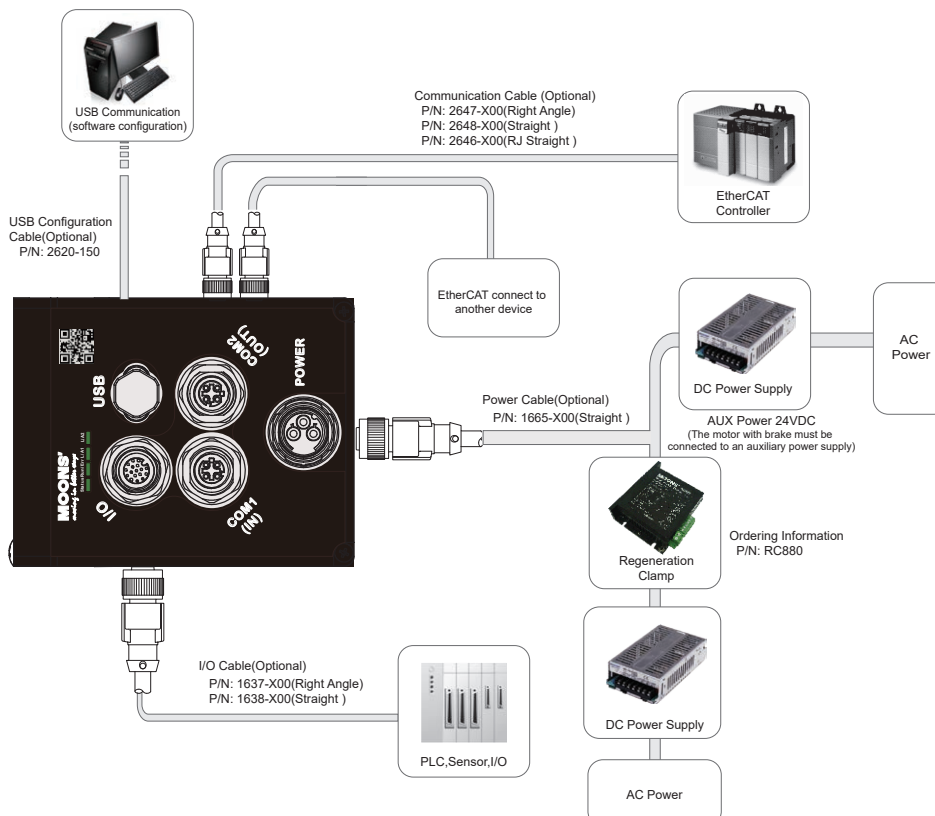
IP65 System Configuration

■ 80mm (550W)

● RC--RS-485, CANopen, Pluse

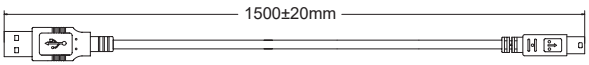


● EC--EtherCAT

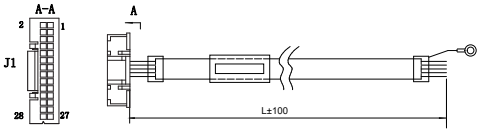


IP20 Type Accessories (For MDXR4/MDXR6/MDXR8)

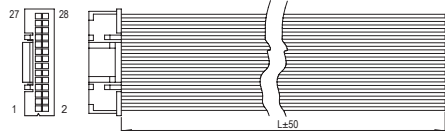
USB Cable

P/N	Length (L)	Description	Outline
2620-150	1.5m	USB configuration cable connect with PC and servo drive	

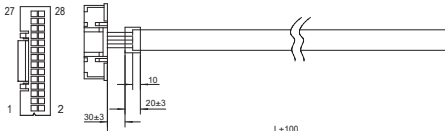
I/O Cable (Shielded, Only for MDXR4)

P/N	Length (L)	Outline
1664-100	1m	
1664-200	2m	
1664-300	3m	
1664-500	5m	

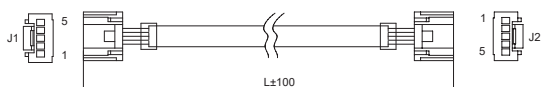
I/O Cable (Unshielded, Only for MDXR6/MDXR8)

P/N	Length (L)	Outline
1101-100	1m	
1101-200	2m	
1101-500	5m	

I/O Cable (Shielded, Only for MDXR6/MDXR8)

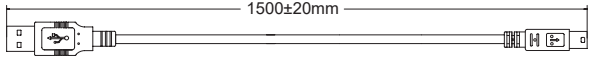
P/N	Length (L)	Outline
1116-100	1m	
1116-200	2m	
1116-300	3m	
1116-500	5m	

CANopen/RS485 Daisy Chain Communication Cable

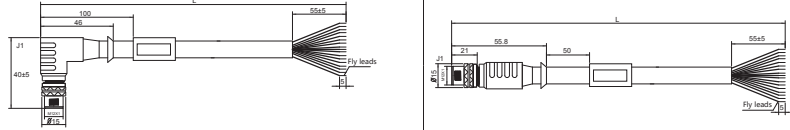
P/N	Length (L)	Outline
2111-025	0.25m	
2111-050	0.5m	
2111-100	1m	
2111-300	3m	
2111-500	5m	

IP65 Type Accessories (For MDXT4)

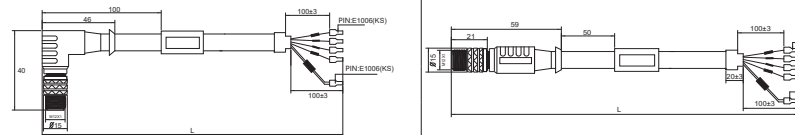
USB Cable

P/N	Length (L)	Description	Outline
2620-150	1.5m	USB configuration cable connect with PC and servo drive	

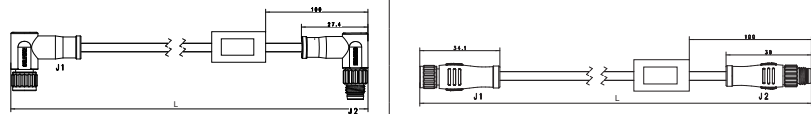
I/O Cable

Right Angle Type	Straight Type	Length (L)	Outline
1637-100	1638-100	1m	
1637-200	1638-200	2m	

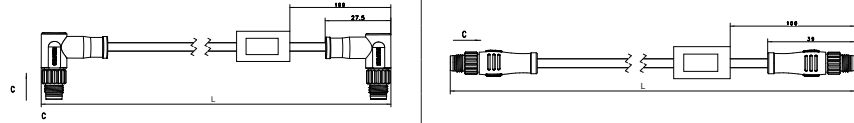
Power Cable

Right Angle Type	Straight Type	Length (L)	Outline
1636-100	1639-100	1m	
1636-200	1639-200	2m	
1636-300	1639-300	3m	
1636-500	1639-500	5m	

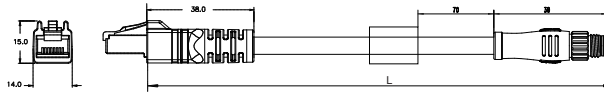
CANopen/RS485 Daisy Chain Communication Cable

Right Angle Type	Straight Type	Length (L)	Outline
2662-100	2661-100	1m	
2662-200	2661-200	2m	
2662-300	2661-300	3m	
2662-500	2661-500	5m	

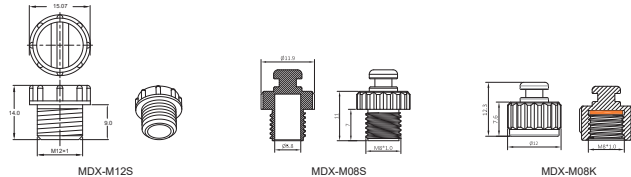
EtherCAT Communication Cable

Right Angle Type	Straight Type	Length (L)	Outline
2664-100	2663-100	1m	
2664-200	2663-200	2m	
2664-300	2663-300	3m	
2664-500	2663-500	5m	

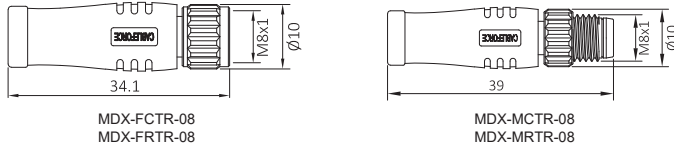
EtherCAT Daisy Chain Communication Cable

RJ Right Angle Type	Length (L)	Outline
2665-200	2m	
2665-300	3m	
2665-500	5m	

Water-proof Cap

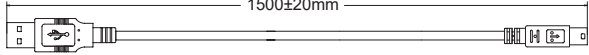
P/N	Description	Outline
MDX-M12S	External thread (I/O)	
MDX-M08S	External thread (COM1)	
MDX-M08K	Inner thread (COM2)	

Terminal matching resistor

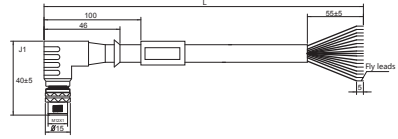
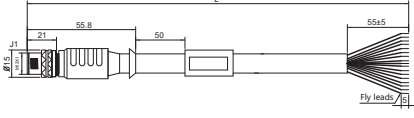
P/N	Description	Outline
MDX-FCTR-08	CANopen Female (COM2)	
MDX-MCTR-08	CANopen Male (COM2)	
MDX-FRTR-08	RS485 Female (COM2)	
MDX-MRTR-08	RS485 Male (COM1)	

IP65 Type Accessories (For MDXT6)

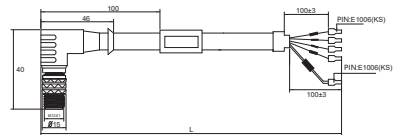
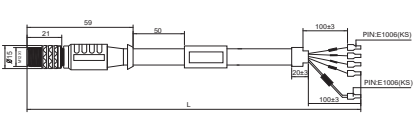
USB Cable

P/N	Length (L)	Description	Outline
2620-150	1.5m	USB configuration cable connect with PC and servo drive	

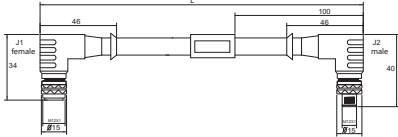
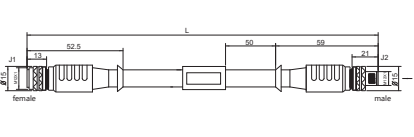
I/O Cable

Right Angle Type	Straight Type	Length (L)	Outline
1637-100	1638-100	1m	
1637-200	1638-200	2m	

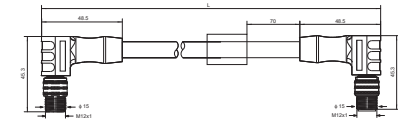
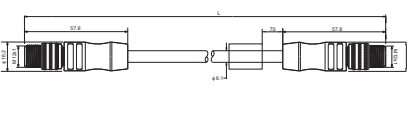
Power Cable

Right Angle Type	Straight Type	Length (L)	Outline
1636-100	1639-100	1m	
1636-200	1639-200	2m	
1636-300	1639-300	3m	
1636-500	1639-500	5m	

CANopen/RS485 Daisy Chain Communication Cable

Right Angle Type	Straight Type	Length (L)	Outline
2632-100	2634-100	1m	
2632-200	2634-200	2m	
2632-300	2634-300	3m	
2632-500	2634-500	5m	

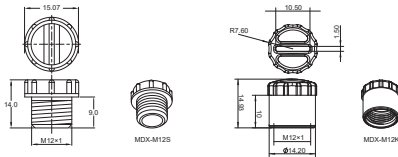
EtherCAT Daisy Chain Communication Cable

Right Angle Type	Straight Type	Length (L)	Outline
2647-200	2648-200	2m	
2647-300	2648-300	3m	
2647-500	2648-500	5m	

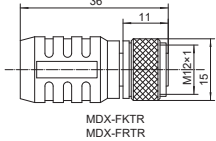
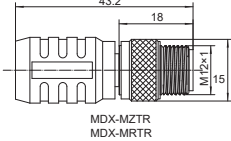
EtherCAT Communication Cable

RJ Right Angle Type	Length (L)	Outline
2646-200	2m	
2646-300	3m	
2646-500	5m	

Water-proof Cap

P/N	Description	Outline
MDX-M12S	External thread (I/O, COM1)	
MDX-M12K	Inner thread (COM2)	

Terminal matching resistor

P/N	Description	Outline
MDX-FKTR	CANopen Female (COM2)	
MDX-MZTR	CANopen Male (COM1)	
MDX-FRTR	RS485 Female (COM2)	
MDX-MRTR	RS485 Male (COM1)	

Ordering Information

Part Number	Frame Size	IP Type	Power	Communications	Encoder Type	Brake	
MDXR42JNLRCA000	40mm	IP20	100W	RS-485 CANopen Pluse	L	N	
MDXR42J5LRCA000						5	
MDXR42JNBRC A000					B	N	
MDXR42J5BRCA000						5	
MDXR42JNLECA000				EtherCAT	L	N	
MDXR42J5LECA000						5	
MDXR42JNBEC A000					B	N	
MDXR42J5BEC A000						5	
MDXT42JNLRCA000		IP65		RS-485 CANopen Pluse	L	N	
MDXT42J5LRCA000						5	
MDXT42JNBRC A000					B	N	
MDXT42J5BRCA000						5	
MDXT42JNLECA000				EtherCAT	L	N	
MDXT42J5LECA000						5	
MDXT42JNBEC A000					B	N	
MDXT42J5BEC A000						5	
MDXR61GNLRCA000	60mm	IP20	200W	RS-485 CANopen Pluse	L	N	
MDXR61G5LRCA000						5	
MDXR61GNBRCA000					B	N	
MDXR61G5BRCA000						5	
MDXR61GNLECA000				EtherCAT	L	N	
MDXR61G5LECA000						5	
MDXR61GNBEC A000					B	N	
MDXR61G5BEC A000						5	
MDXT61GNLRCA000		IP65		RS-485 CANopen Pluse	L	N	
MDXT61G5LRCA000						5	
MDXT61GNBRCA000					B	N	
MDXT61G5BRCA000						5	
MDXT61GNLECA000				EtherCAT	L	N	
MDXT61G5LECA000						5	
MDXT61GNBEC A000					B	N	
MDXT61G5BEC A000						5	
MDXR62GNLRCA000		IP20	400W	RS-485 CANopen Pluse	L	N	
MDXR62G5LRCA000						5	
MDXR62GNBRCA000					B	N	
MDXR62G5BRCA000						5	
MDXR62GNLECA000				EtherCAT	L	N	
MDXR62G5LECA000						5	
MDXR62GNBEC A000					B	N	
MDXR62G5BEC A000						5	
MDXT62GNLRCA000				IP65	RS-485 CANopen Pluse	L	N
MDXT62G5LRCA000							5
MDXT62GNBRCA000						B	N
MDXT62G5BRCA000							5
MDXT62GNLECA000					EtherCAT	L	N
MDXT62G5LECA000							5
MDXT62GNBEC A000						B	N
MDXT62G5BEC A000							5
MDXR82GNLRCA000	80mm	IP20	550W	RS-485 CANopen Pluse	L	N	
MDXR82G5LRCA000						5	
MDXR82GNBRCA000					B	N	
MDXR82G5BRCA000						5	
MDXR82GNLECA000				EtherCAT	L	N	
MDXR82G5LECA000						5	
MDXR82GNBEC A000					B	N	
MDXR82G5BEC A000						5	
MDXT82GNLRCA000		IP65		RS-485 CANopen Pluse	L	N	
MDXT82G5LRCA000						5	
MDXT82GNBRCA000					B	N	
MDXT82G5BRCA000						5	
MDXT82GNLECA000				EtherCAT	L	N	
MDXT82G5LECA000						5	
MDXT82GNBEC A000					B	N	
MDXT82G5BEC A000						5	

Note: B: 17-bit Battery-less Absolute Multi-turn Encoder ; L: 17-bit Incremental magnetic encoder;
 N: No brake, Low inertia; 5: With brake, Low inertia

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