

StellarSpace

Energy-Efficient Servo Drive System

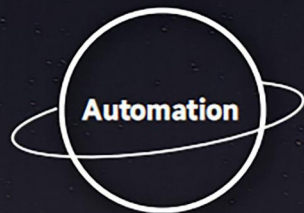
QD series



About StellarSpace

Since its inception, StellarSpace focus on general industrial areas, including automation, digitalization, and intelligence in the industrial sector.

We have variable cutting edge technologies covering hundreds of hardware products and software products, as well as multiple industrial solutions. We built leading level R&D capability for industrial automation products, including Program mable Logic Controllers (PLC), Drives, Motors, etc. We also produce other general industrial products. These solutions are extensively applied across light industry, heavy industry, high-end equipment manufacturing, and other applications. Our customer can be benifit from our smart, precise, and high efficiency industrail solutions, driving intelligent manufacturing while empowering industrial digital and intelligent transformation.



Key benefits



ENERGY EFFICIENT

Permanent magnet motors ensure high efficiency across a broad operating range



PRECISE POSITIONING

Fast response with 16 kHz position loop; high-resolution encoders available



EASY TO USE

Streamlined startup, intuitive operation, and built-in practical functions



FLEXIBLE INTEGRATION

Supports EtherCAT, Profinet, multiple encoder types, and optional brakes

Typical industries and applications



Food & beverage



Packaging & printing



Automotive



Healthcare



Semiconductors



Laser cutting



Industrial robots



Textile

Overview

QD20-G Servo Drive

The QD20-G is a high-performance general-purpose servo drive, featuring 16kHz carrier frequency, 320kHz current loop sampling, 16kHz speed and position loop rates, and a 3kHz speed loop bandwidth. With positioning resolution up to 8,388,608 P/R, it ensures precise motion control. It supports full closed-loop control, multi-stage positioning, gain switching, fixed-length interrupts, electronic cam, and more. An integrated PLC enables simple user programming for customized applications.



QD20-E PROFINET Servo Drive

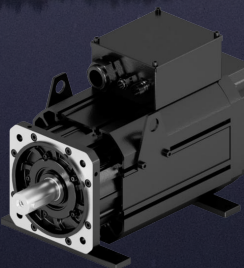
The QD20-E series supports PROFINET RT/IRT communication with standard telegrams 1, 3, 7, 9 and Siemens telegrams 102, 105, 110, 111, 750. With a minimum sync cycle of 500 μ s and power range from 0.1 to 110 kW, it accommodates a wide range of encoder options to suit various applications.

QD25-E EtherCAT Servo Drive

The QD25-E is a next-generation EtherCAT-based servo drive with a dual-core CPU architecture. It supports high-speed, multi-axis synchronization over standard RJ45 interfaces. Power range: 0.1–110 kW.



General Purpose Servo Motors



Compact and lightweight motors covering 0.1–10 kW. Available with various encoder types and optional built-in brake.

Mid-to-High Power Servo Motors

Air-cooled motors with power range from 10–122 kW. Energy-efficient, standard with thermal protection. Multiple encoder options available; selected models support integrated brakes.

QD20-G Servo Drive



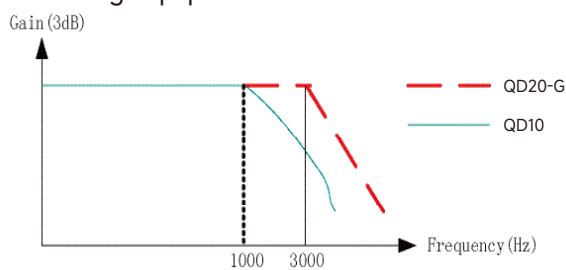
【Overview】

The QD20-G is a high-performance general-purpose servo drive, featuring 16kHz carrier frequency, 320kHz current loop sampling, 16kHz speed and position loop rates, and a 3kHz speed loop bandwidth. With positioning resolution up to 8,388,608 P/R, it ensures precise motion control. It supports full closed-loop control, multi-stage positioning, gain switching, fixed-length interrupts, electronic cam, and more. An integrated PLC enables simple user programming for customized applications. Certified for compliance with CE and RoHS standards.

【Features】

Faster Motion

- Industry-leading performance for demanding path control applications such as engraving-milling machines, CNC machining centers, grinders, and welding systems
- High-speed and accurate positioning for pick-and-place machines, stamping feeders, and warp knitting equipment

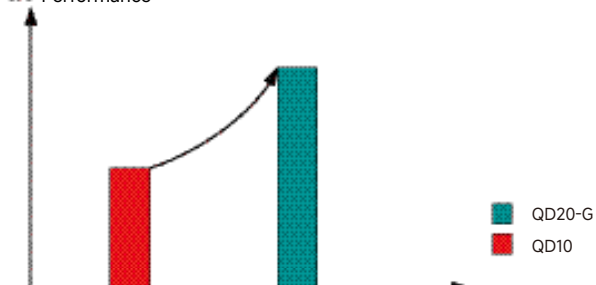


3.0 kHz Response Frequency

Designed for robotics, CNC machines, and engraving-milling systems

- Torque feedforward control ensures ultra-fast response and reduced tuning time

CPU Performance



Dual-Core Processing Architecture

Ideal for robotics and machine tools

- Parallel processing boosts execution efficiency

QD20-G Servo Drive

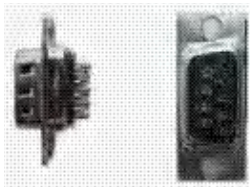
Ease of Use

- Intuitive operation with simplified commissioning and practical functionality for daily use.

Clear and Intuitive Menu

- The main menu uses clear, easy-to-remember alphanumeric codes for improved user accessibility.

Fault codes are shown when alarms occur to help with fast troubleshooting.



User-Friendly DB Connectors

- Encoder and control signals use DB connectors —easy to wire and quick to install.

Intelligent

- Auto-tuning via inertia identification and notch filter configuration enables optimal performance with minimal effort
- Flexible command source switching adapts easily to various application needs and streamlines setup

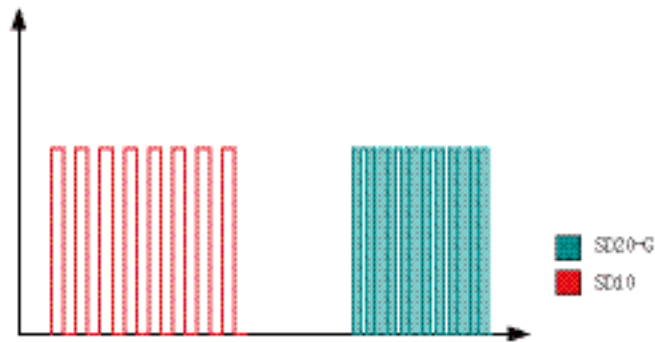
Powerful Versatility

- Extensive feature set supports a wide range of scenarios
- Fast and straightforward configuration accelerates deployment and improves user experience

Integrated Simple PLC and Electronic Cam Functions

- Integrated simple PLC and electronic cam functions. Paired with dedicated software for easier setup and operation.

QD20-G Servo Drive



High Pulse Frequency — Up to 4 MHz

- Enables higher resolution motion control with pulse command frequency up to 4 MHz.



Built-in High-Speed DI Channel

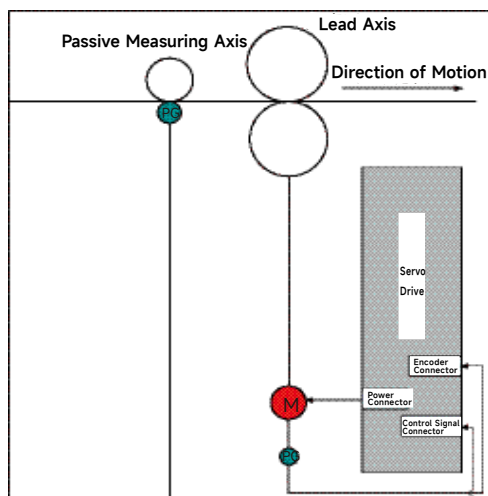
- Includes one high-speed digital input for flexible application needs.

Supports Multiple Encoder Types

- QD20-G series supports absolute, incremental, resolver, magnetic, and Hiperface encoders — adaptable for various applications.

More Versatile Applications

- The QD20-G series supports full closed-loop control and gantry synchronization, making it suitable for a broader range of automation tasks.



Full Closed-Loop Control

Description

An external encoder mounted on the load provides real-time position feedback. The servo drive uses this feedback for precise closed-loop control, ensuring accurate positioning and smooth motion. This effectively prevents belt slippage and backlash.

The function is achieved via the drive's internal algorithm, as shown in the diagram.

QD20-G Servo Drive

Gantry Synchronization

- Two drives receive pulse commands at the same time.They exchange encoder feedback and adjust motor speed through cross-control to keep both axes synchronized. If the position error exceeds the set limit,ban alarm is triggered and the system stops.

Interrupt-Based Position Control

- In external pulse mode, the drive can interrupt current motion and execute a preset move length.

Gain Switching

- The drive supports switching between two gain sets based on user-defined conditions. This helps maintain stable performance when the load or mechanism changes.

Multi-Step Position Control

- Up to 8 internal position commands can be selected via input signals, simplifying host control and user operation.

【Ordering Information】

QD20 - G 102 T2 M2 F0 D70 B3
1 2 3 4 5 6 7 8

1	2	3	4	5
Code: Series	Code: Intended use	Code: Power	Code: Power supply	Code: Dimensions
QD20: 20 Series	G: Generic	050: 50W 101: 100W	S2: 1-phase 22V	M0: 48×165×155 M1: 48×175×195
		201: 200W 751: 750W	T2: 3-phase 220 V	M2: 76×175×195 M3: 100×203×218
		102: 1kW ..., ...	T3: 3-phase 380 V	ML3: 275×118×223 M4: 185×380×215
				M5: 210×420×234 M6: 268.4×498×234
				M7: 310×576×234 M8: 355×555×290
				..., ...
6	7	8		
Code: Comm	Code: Feedback	Code: Brake		
F0/blank: Modbus, via USB	D20: Differential rotatory resolver	D50: 14 pin 2500 line incremental enc	B1/blank: Internal resistor braking	
	D51: 8 pin 2500 line incremental enc	D52: 4 pin 23 bit incremental enc	B3: Dynamic braking + Resistor braking	
	D70: 4 pin 17 bit absolute enc	D71: 4 pin 23 bit absolute enc	B6: External resistor braking	
	D72: 4 pin 23 bit absolute enc	D80: 4 pin 17 bit magnetic enc		
	D10: 16 bit Hiperface enc	D30: BiSS enc		
	D16: 128 bit Hiperface enc	D17: 1024 bit Hiperface enc		

* Dimensions are defined as (W × H × D).
Models with M0 structure support only D70, D71, D72, D52, and D80.

QD20-G Servo Drive

Technical specifications		
Voltage/Frequency	S2/T2 series	220VAC -15 ~ +10% 50/60Hz
	T3 series	3-phase 380...440 VAC, -15...+10%, 50/60Hz
Control mode	Pt: position pulse mode Pr: internal register position mode Sz: analog speed mode Sr: internal register speed mode Tz: analog torque mode Tr: internal register torque mode	
Resistor braking	Built-in or external brake resistor (external resistor sold separately) The M0 and M1 models do not include a built-in brake resistor. ML3, M4, M5, M6, M7 models are metal-housed drives without built-in brake resistors. All other models come with a built-in brake resistor.	
Control characteristics	Control method	Permanent magnet synchronous motor
	Speed response frequency	3.0kHz
	Speed fluctuation rate	± 0.01% (load 0 - 100%)
	Speed fluctuation	Permanent magnet synchronous motor ± 0.01% (VC, Load 0 - 100%)
	Speed control ratio	1: 10000
	Input pulse frequency	1. 500kHz (differential) ; 200kHz (open collector) 2. High-speed pulse circuit accepts 4 MHz (differential)
Input signal	Control inputs	Servo enable, alarm reset, command pulse clear, command pulse disable, forward rotation prohibited, reverse rotation prohibited, forward torque limit, reverse torque limit, internal speed selection, internal position trigger, home/mechanical home position retrieval trigger, zero speed clamping and others
	Encoder	1. Absolute encoder, 17 bit / 23 bit 2. Incremental encoder, 23 bit, 2500 line 3. Rotatory resolver 4. Magnetic encoder, 17 bit 5. Hiperface encoder 6. BiSS encoder
Output signal	Control outputs	Servo ready, servo alarm, position reached, speed reached, electromagnetic brake output, rotation detection, speed limitation active, home position found, torque limitation active and others
	Encoder signal frequency division output	1. Encoder Z-phase open collector output 2. Encoder A and B-phase frequency division differential output (non-isolated), with arbitrary division; Z-phase output without division 3. Z pulse time extension function
Input options	2-phase quadrature pulse, forward pulse + reverse pulse, pulse + direction, internal registers	
Electronic gear ratio	1. $0.01 \leq B / A \leq 100$ 2. Supports two electronic gears: users can select or switch based on their needs	
Analog speed control	Analog speed signal input: -10V to +10V range, adjustable via function code; Selectable command source	
Analog torque control	Analog torque signal input: -10V to +10V range, adjustable via function code; Selectable command source	
Acceleration/Deceleration	Acceleration/deceleration time setting: 1 to 30,000 ms from 0 to rated speed, with adjustable time	
Communications	RS485/RS232 interface for connecting to a PC to set and monitor servo control parameters	
Parameter configuration	Keyboard	Parameter adjustment via four buttons, with settings displayed on a 5-digit LED
	Master station	Via RS485 serial port
Monitoring	Output current, bus voltage, motor speed, motor feedback pulses, motor feedback revolutions, command pulses, command pulse error, command speed, command torque, analog speed command, analog torque command and others	
Warnings	Over voltage trip, under voltage trip, drive I.T exceeded limit, over current trip, encoder fault, fatal velocity error exceeded, pulse control command error, emergency stops, controller over-temperature, supply phase loss detected, regenerative braking fault, excessive position deviation, encoder battery dead and others	
Load inertia	Less than 5 times the servo motor's inertia	

Terminal details

CN1 terminal definition

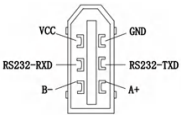
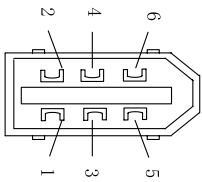
 (Solder side)	Notes: 1. CN1 provides 100mA. Use external power for higher loads. 2. CN1's VCC is 5V. Use with caution.
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Diagram: CN1 terminal definition (viewed from the solder side towards the drive side)

QD20-G Servo Drive

CN2 terminal definition

	Terminal No.	Abbreviation	Definition
	CN2- 6	VCC	+5V power input
	CN2- 2	PS	PG serial signal
	CN2- 1	/PS	
	CN2- 5	GND	Power ground
	Housing	HOUSING	Shielding layer

For CN2 encoder cables with M0 structure only

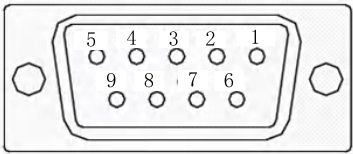
	Terminal No.	Abbreviation	Definition
	CN2-1	NC	Do not wire
	CN2-2	VCC	+5V power input
	CN2-3	PS	PG serial signal
	CN2-4	/PS	
	CN2-5	GND	Power ground
	CN2-6	NC	Do not wire
	CN2-7		
	CN2-8		
	CN2-9		
	Housing	Shielding layer	

Diagram: CN2 terminal definition (viewed from the solder side towards the drive side)

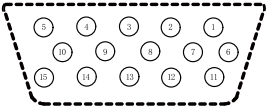
	Terminal No.	Abbreviation	Definition
	CN2- 1	V	Encoder V-phase input
	CN2- 2	U	Encoder U-phase input
	CN2- 3	Z	Encoder Z-phase input
	CN2- 4	B	Encoder B-phase input
	CN2- 5	A	Encoder A-phase input
	CN2- 6	/V	Encoder /V-phase input
	CN2- 7	/U	Encoder /U-phase input
	CN2- 8	/Z	Encoder /Z-phase input
	CN2- 9	/B	Encoder /B-phase input
	CN2-10	/A	Encoder /A-phase input
	CN2-11	/W	Encoder W-phase input
	CN2-12	W	Encoder W-phase input
	CN2-13	VCC	+5V power input
	CN2-14	GND	Power ground
	CN2-15	NC	Do not wire
	Housing	HOUSING	Shielding layer

Diagram: 1. CN2 terminal definition (viewed from the solder side towards the drive side)

2. For 8-core incremental encoder wiring, remove U, /U, V, /V, W, /W

CN3 terminal definition

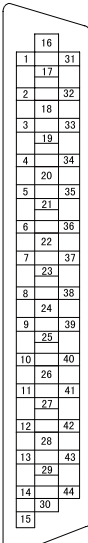
1. Input signal

	Signal type	Terminal No.	Abbreviation	Name	Input method	Description
	Position	CN3-28	PL1	Pulse direction input (24V)	Differential signal or open collector	1.Pulse + Direction
		CN3-43	PL2	Pulse command input (24V)		2.A and B-phase quadrature pulse
		CN3-4 CN3-3	HPULS+ HPULS-	High-speed pulse command input	Differential signal	3.Pulse + Pulse
		CN3-5 CN3-6	HSIGN+ HSIGN-	High-speed pulse direction command		These four channels accept only 5V differential pulse signals, and the reference terminal must be connected to CN3-24

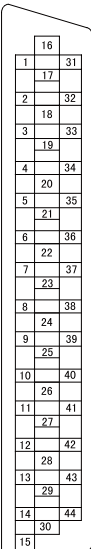
QD20-G Servo Drive

CN3 terminal definition

2. Input signal

	Signal type	Terminal No.	Abbreviation	Name	Input method	Description
	Programmable input terminal	CN3-18	DI1	Digital input 1	Switching signal	Note: When DI8 is used as a high-speed optocoupler, the pulse frequency range is 0–200kHz, with a minimum duty cycle of 20%.
		CN3-19	DI2	Digital input 2		
		CN3-20	DI3	Digital input 3		
		CN3-21	DI4	Digital input 4		
		CN3-22	DI5	Digital input 5		
		CN3-38	DI6	Digital input 6		
		CN3-39	DI7	Digital input 7		
		High-speed DI counting port				
		CN3-13	DI8+	High-speed DI input	Switching signal	
		CN3-14	DI8-	High-speed DI input		
	Analog input	CN3-23	AS1+	Analog speed command input	Analog signal	Analog speed command input, with GND as power ground
		CN3-25	AS2+	Analog torque command input		
		CN3-24	GND	Signal reference terminal		
	Position	CN3-44	PULS	Pulse command input (5V)	Differential signal or open collector	Command input types: 1.Differential 2.Open collector outputs
		CN3-15	/PULS			
		CN3-12	SIGN	Pulse direction input (5V)		
		CN3-27	/SIGN			

3. Output signal

	Signal type	Terminal No.	Abbreviation	Name	Input method	Description
	Programmable output terminal	CN3-9	D01+	Digital input 1	Switching signal	Maximum allowable voltage and current capacity of the servo drive internal optocoupler output circuit Voltage: DC 30V (maximum) Current: DC 50mA (maximum)
		CN3-10	D01-			
		CN3-26	D02+	Digital input 2		
		CN3-11	D02-			
		CN3-41	D03+	Digital input 3		
		CN3-42	D03-			
	CN3-32	D04+	Digital input 4			
	CN3-31	D04-				
	General output terminal	CN3-7	ALM+	Servo alarm output		Action when a servo drive detects an alarm
		CN3-8	ALM-			
		CN3-37	OZ+	Encoder Z-phase pulse open collector output	Open collector signal	Encoder Z-phase pulse output as open collector signal
		CN3-30	CM			
		CN3-34	PB0+	Encoder B-phase pulse frequency division output	Differential signal	Encoder B-phase pulse frequency division output
		CN3-33	PB0-			
		CN3-36	PA0+			Encoder A-phase pulse frequency division output
		CN3-35	PA0-			
	CN3-16	PZ0+	Encoder Z-phase pulse frequency division output		Encoder Z-phase pulse output	
	CN3-17	PZ0-				

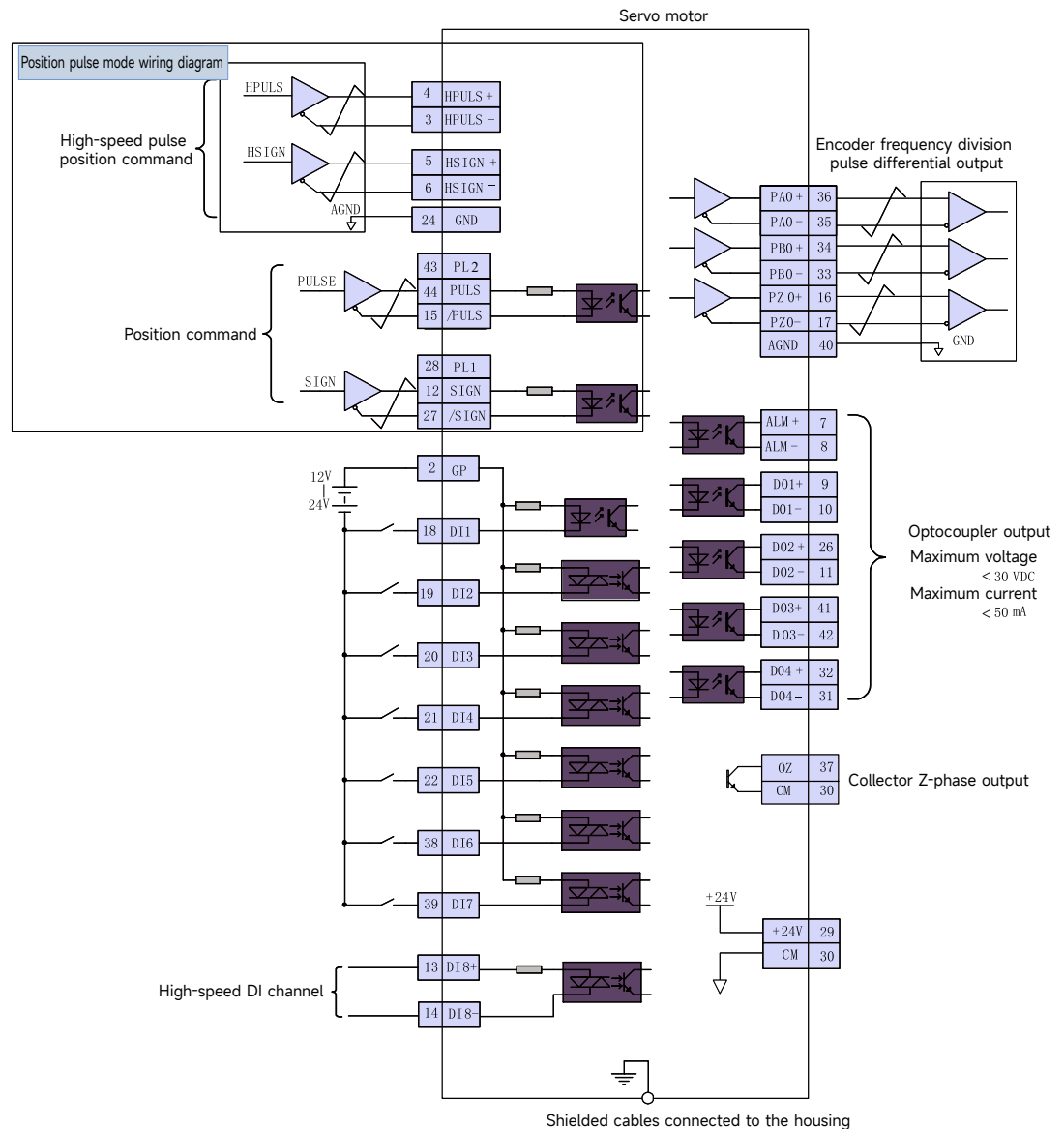
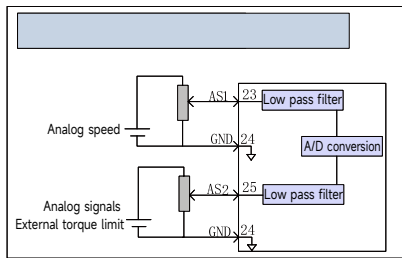
4. Other signals

Signal type	Terminal No.	Abbreviation	Name	Input method	Description
Power supply	CN3-29	+24V	Internal 24V power ground	Power supply	Voltage range: 24V–30V, max current: 100mA
Analog outputs	CN3-1	AO	AO output	Analog outputs	Can monitor speed, current, and torque, with AGND as power ground
Power ground	CN3-30	CM	Internal +24V power supply	Power ground	Internal 24V power ground
Common terminal	CN3-2	GP	Common terminal	Common terminal	Common terminal for 24V programmable input terminals
Power ground	CN3-24 CN3-40	AGND	Analog power ground, internal +5V power ground	Analog power ground	Ground for analog speed command, analog torque command, and analog monitoring outputs

QD20-G Servo Drive

【Control functions】

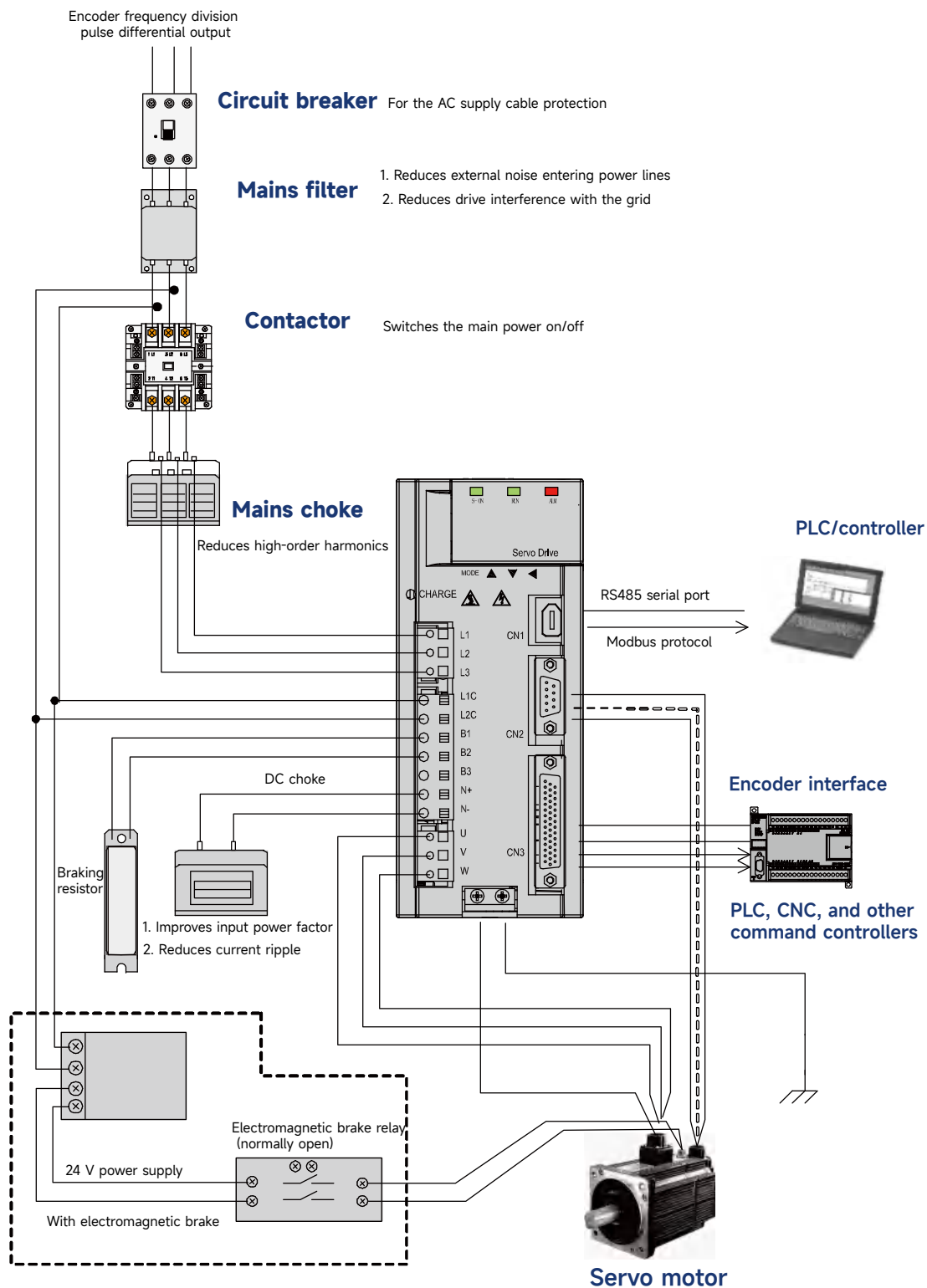
Connection diagram



Note: Maximum 100mA output current for 24V internal driver.

QD20-G Servo Drive

[Connection diagram]

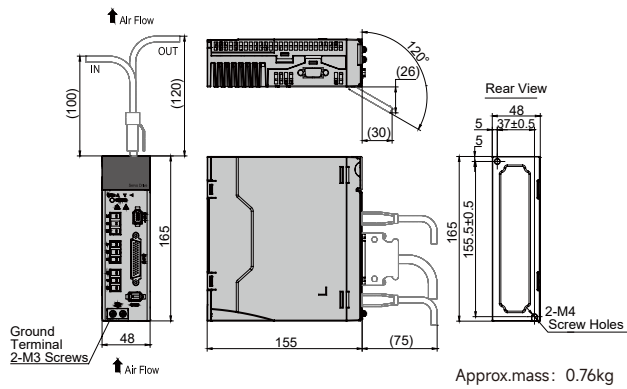


* Taking a 3-phase 220V AC power supply as an example.

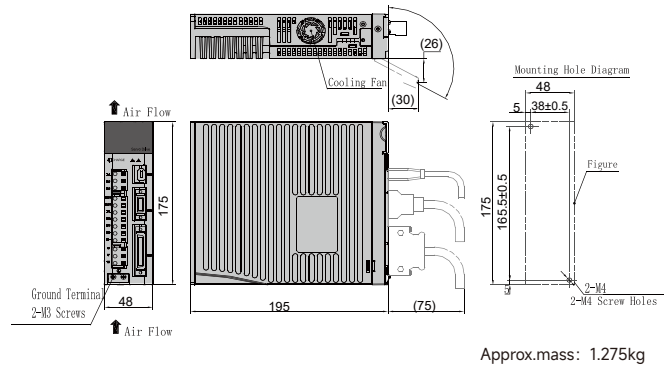
QD20-G Servo Drive

[Servo drive dimensions]

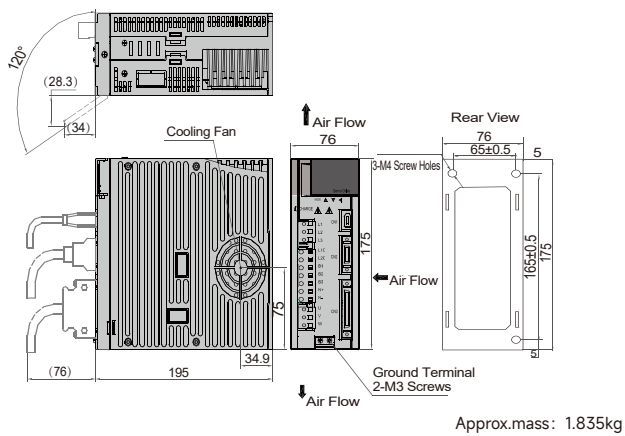
M0 dimensions



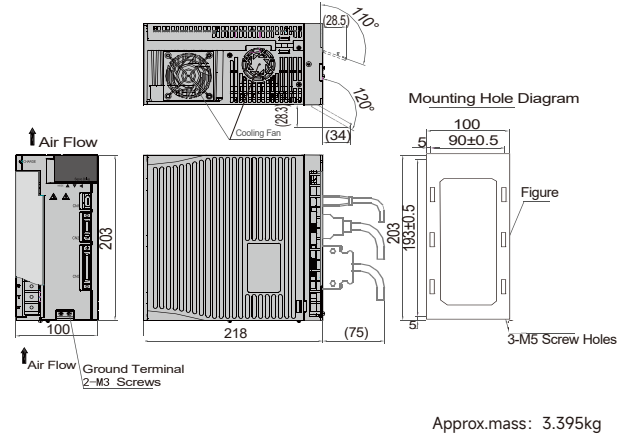
M1 dimensions



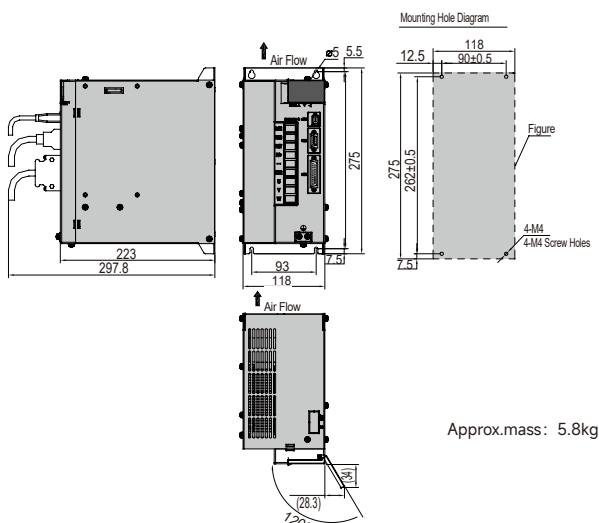
M2 dimensions



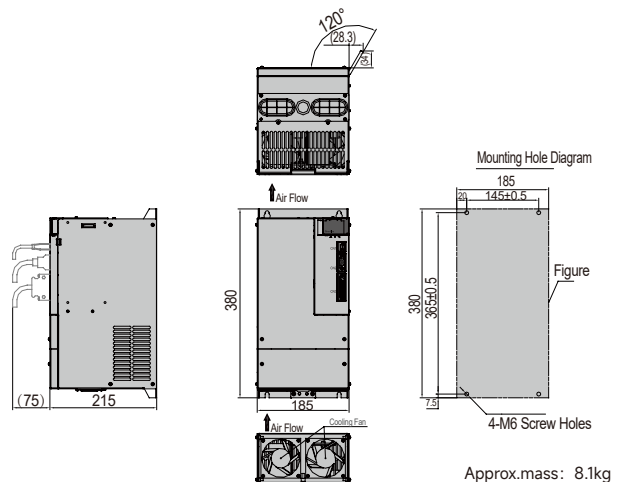
M3 dimensions



ML3 dimensions

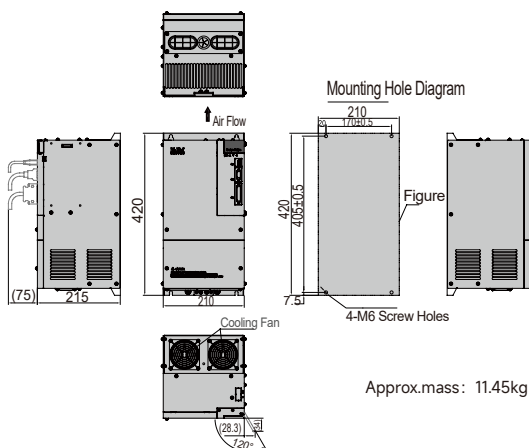


M4 dimensions

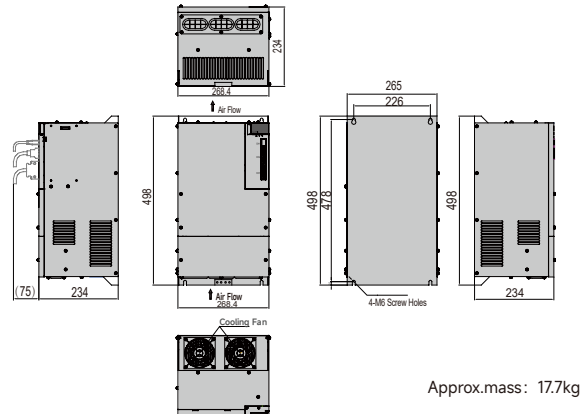


QD20-G Servo Drive

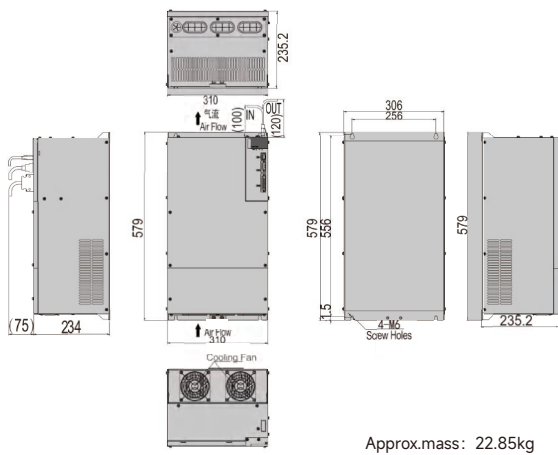
M5 dimensions



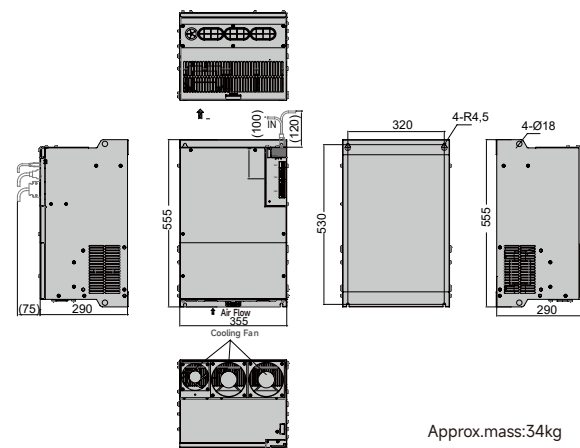
M6 dimensions



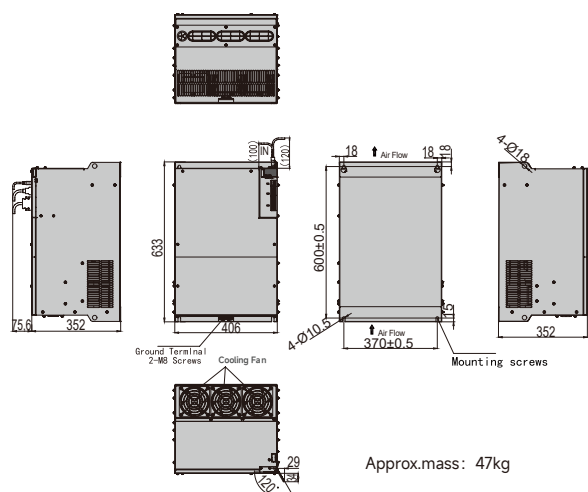
M7 dimensions



M8 dimensions



M9 dimensions



Unit: mm

QD20-E PROFINET Servo Drive



【Overview】

The QD20-E series supports PROFINET RT/IRT communication with standard telegrams 1, 3, 7, 9 and Siemens telegrams 102, 105, 110, 111, 750. With a minimum sync cycle of 500 μ s and power range from 0.1 to 110 kW, it accommodates a wide range of encoder options to suit various applications.

【Features】

- Response frequency up to 3 kHz
- Supports both online and offline inertia identification with automatic parameter and gain tuning
- Compatible with incremental, absolute, resolver, and magnetic encoders, with resolution up to 23-bit
- Integrated notch filters and vibration suppression for enhanced system stability
- PC-based software enables serial communication, parameter configuration, and real-time debugging

【Ordering information】

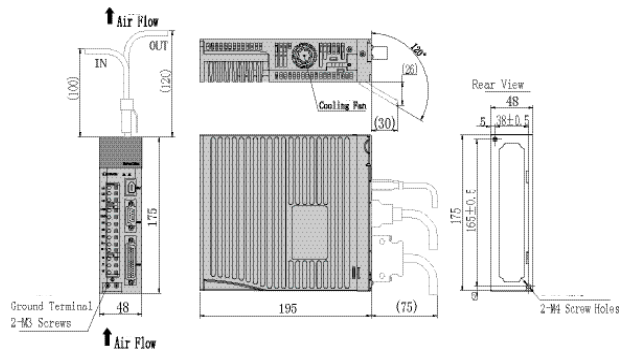
QD20 - E 102 T2 M2 U1 F6 D71 B1 R3
1 2 3 4 5 6 7 8 9 10

1	2	3	4	5		
Code: Series	Code: Intended use	Code: Power	Code: Power supply	Code: Dimensions		
QD20: 20 Series	E: Bus-type	101: 100W	S2: 1-phase 220V	M1:48×175×195	M2:75×175×195	
		210: 200W	T2: 3-phase 360V	M3:100×203×218	ML3: 275×118×223	
		102: 1kW	T3: 3-phase 380V	M4:185×380×215	M5:210×420×234	
				M6:268.4×498×234	M7:310×576×234	
				M8:355×555×290	M9:406×633×352	
6	7	8		9		
Code: Certification	Code: Comm	Code: Feedback			Code: Brake	
U1: CE	F6: PROFINET	D20: Differential rotatory resolver		D50: 14 pin 2500 line incremental enc	B1/blank: Internal resistor braking	
		D51: 8 pin 2500 line incremental enc		D52: 4 pin 23 bit incremental enc		B3:Dynamic braking + Resistor braking
		D70: 4 pin 17 bit absolute enc		D71: 4 pin 23 bit absolute enc		B6:External resistor braking
		D72: 4 pin 23 bit single-turn absolute enc		D80: 4 pin 17 bit magnetic enc		

QD20-E PROFINET Servo Drive

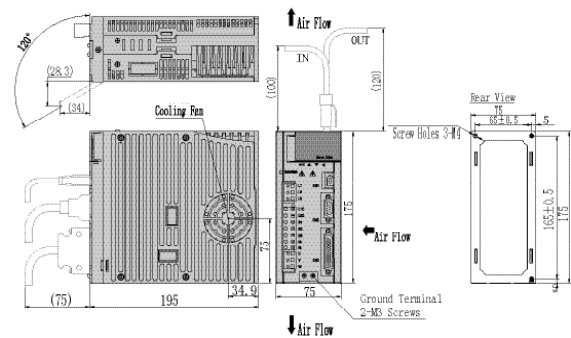
[Dimensions]

M1 dimensions



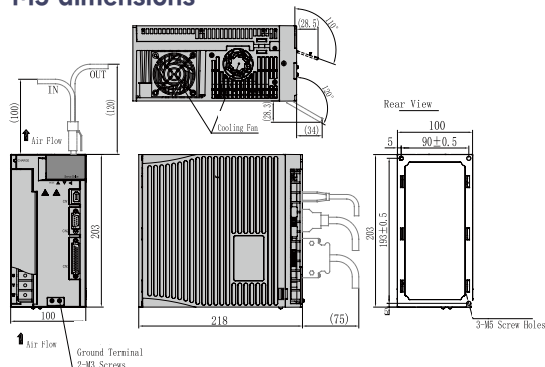
Approx.mass: 1.275kg

M2 dimensions



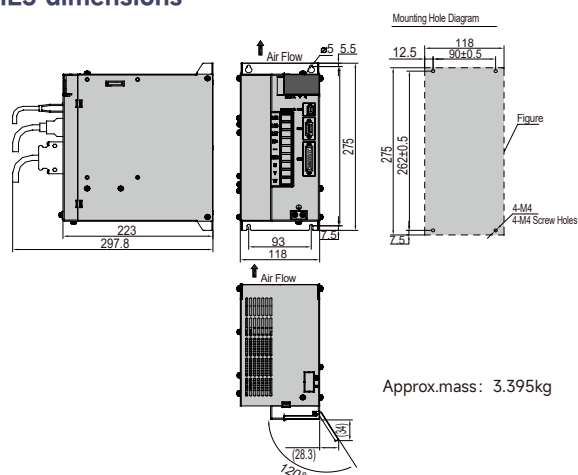
Approx.mass: 1.835kg

M3 dimensions



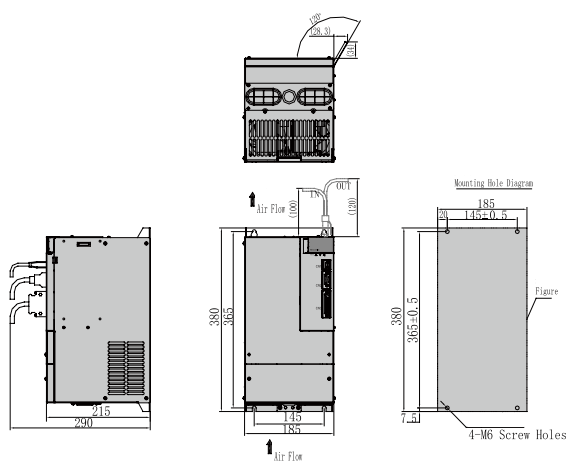
Approx.mass: 5.8kg

ML3 dimensions



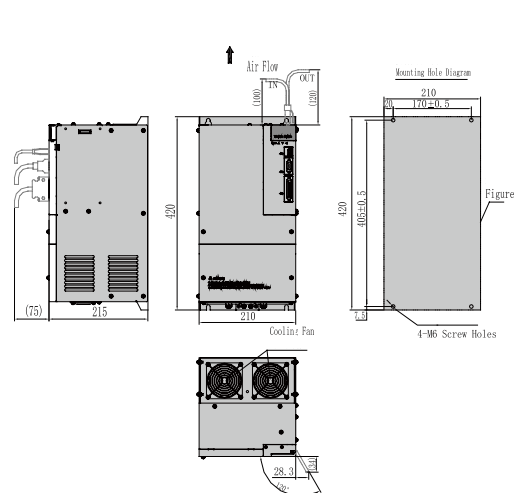
Approx.mass: 3.395kg

M4 dimensions



Approx.mass: 8.1kg

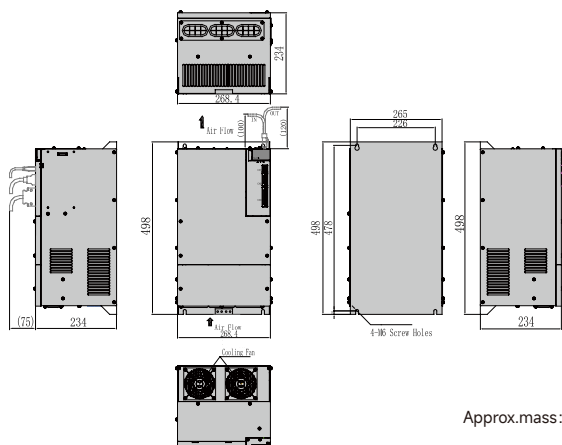
M5 dimensions



Approx.mass: 11.45kg

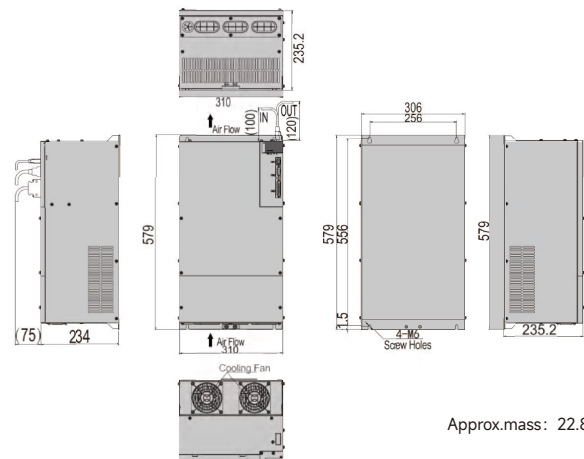
QD20-E PROFINET Servo Drive

M6 dimensions



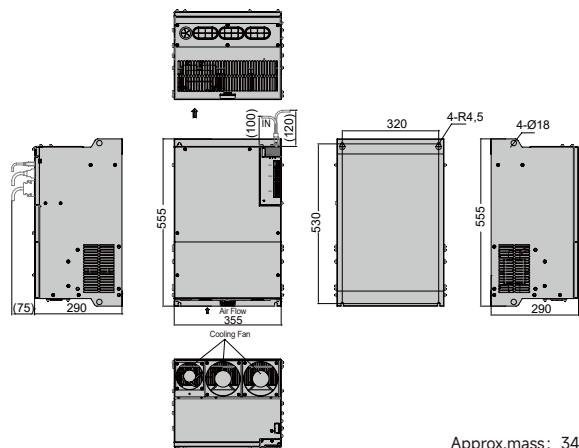
Approx.mass: 17.7kg

M7 dimensions



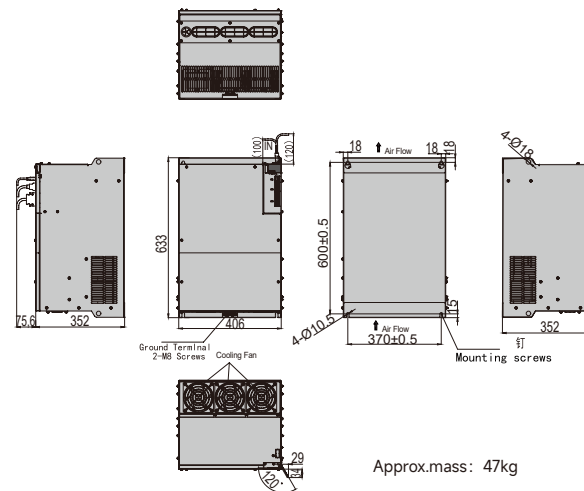
Approx.mass: 22.85kg

M8 dimensions



Approx.mass: 34kg

M9 dimensions



Approx.mass: 47kg

Unit: mm

QD20-G Servo Drive

Technical specifications		
Voltage/Frequency	S2/T2 series	220VAC -15 ~ +10% 50/60Hz
	T3 series	3-phase 380...440 VAC, -15...+10%, 50/60Hz
Control mode	Pt: position pulse mode Pr: internal register position mode Sz: analog speed mode Sr: internal register speed mode Tz: analog torque mode Tr: internal register torque mode	
Resistor braking	Built-in or external brake resistor (external resistor sold separately) The M0 and M1 models do not include a built-in brake resistor. ML3, M4, M5, M6, M7 models are metal-housed drives without built-in brake resistors. All other models come with a built-in brake resistor.	
Control characteristics	Control method	Permanent magnet synchronous motor
	Speed response frequency	3.0kHz
	Speed fluctuation rate	± 0.01% (load 0 - 100%)
	Speed fluctuation	Permanent magnet synchronous motor ± 0.01% (VC, Load 0 - 100%)
	Speed control ratio	1: 10000
	Input pulse frequency	1. 500kHz (differential) ; 200kHz (open collector) 2. High-speed pulse circuit accepts 4 MHz (differential)
Input signal	Control inputs	Servo enable, alarm reset, command pulse clear, command pulse disable, forward rotation prohibited, reverse rotation prohibited, forward torque limit, reverse torque limit, internal speed selection, internal position trigger, home/mechanical home position retrieval trigger, zero speed clamping and others
	Encoder	1. Absolute encoder, 17 bit / 23 bit 2. Incremental encoder, 23 bit, 2500 line 3. Rotatory resolver 4. Magnetic encoder, 17 bit 5. Hiperface encoder 6. BiSS encoder
Output signal	Control outputs	Servo ready, servo alarm, position reached, speed reached, electromagnetic brake output, rotation detection, speed limitation active, home position found, torque limitation active and others
	Encoder signal frequency division output	1. Encoder Z-phase open collector output 2. Encoder A and B-phase frequency division differential output (non-isolated), with arbitrary division; Z-phase output without division 3. Z pulse time extension function
Input options		2-phase quadrature pulse, forward pulse + reverse pulse, pulse + direction, internal registers
Electronic gear ratio		1. $0.01 \leq B / A \leq 100$ 2. Supports two electronic gears: users can select or switch based on their needs
Analog speed control		Analog speed signal input: -10V to +10V range, adjustable via function code; Selectable command source
Analog torque control		Analog torque signal input: -10V to +10V range, adjustable via function code; Selectable command source
Acceleration/Deceleration		Acceleration/deceleration time setting: 1 to 30,000 ms from 0 to rated speed, with adjustable time
Communications		RS485/RS232 interface for connecting to a PC to set and monitor servo control parameters
Parameter configuration	Keyboard	Parameter adjustment via four buttons, with settings displayed on a 5-digit LED
	Master station	Via RS485 serial port
Monitoring		Output current, bus voltage, motor speed, motor feedback pulses, motor feedback revolutions, command pulses, command pulse error, command speed, command torque, analog speed command, analog torque command and others
Warnings		Over voltage trip, under voltage trip, drive I.T exceeded limit, over current trip, encoder fault, fatal velocity error exceeded, pulse control command error, emergency stops, controller over-temperature, supply phase loss detected, regenerative braking fault, excessive position deviation, encoder battery dead and others
Load inertia		Less than 5 times the servo motor's inertia

Terminal details

CN1 terminal definition

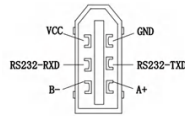
 (Solder side)	Notes: 1. CN1 provides 100mA. Use external power for higher loads. 2. CN1's VCC is 5V. Use with caution.
--	--

Diagram: CN1 terminal definition (viewed from the solder side towards the drive side)

QD25-E PROFINET Servo Drive

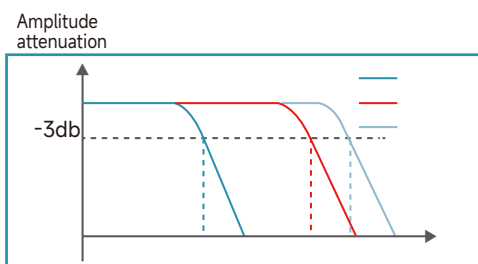


[Overview]

The QD25-E is a next-generation EtherCAT-based servo drive with a dual-core CPU architecture. It supports high-speed, multi-axis synchronization over standard RJ45 interfaces. Power range: 0.1–110 kW.

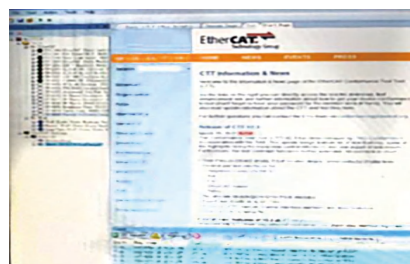
[Features]

New Dual-Core CPU for Better Performance



The QD25-E series features a dual-core CPU, offering improved performance with hardware current and position loops at 16kHz, doubling the execution frequency from the previous generation for better control.

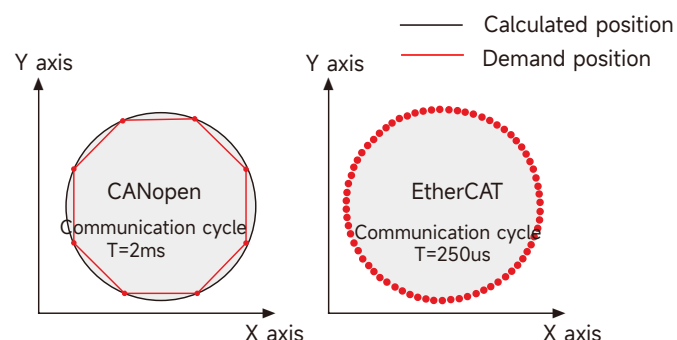
Passed ETG Conformance Testing*



The QD25-E series has passed the CTT conformance test, ensuring compatibility with all major master stations. It provides stronger adaptability.

*Based on CTT version 2.3 software

Accurate Positioning



With bidirectional data transfer at 100Mbps and microsecond-level* communication cycles, positioning is smoother and more precise. EtherCAT communication supports a minimum cycle of 250µs.

*Cycle time depends on the specific master station

Automatic Gain Tuning Supported



The QD25-E supports automatic gain tuning and model feedforward functions, allowing gain adjustment with or without master station commands. This simplifies setup, improves efficiency, and makes it easier to configure.

QD25-E PROFINET Servo Drive

[Ordering Information]

QD25 - E 102 T2 M2 U1 F0 D50 B3 R3
1 2 3 4 5 6 7 8 9 10

1		2		3		4		5	
Code: Series		Code: Intended use		Code: Power		Code: Power supply		Code: Dimensions	
QD25: 25 Series		E: Bus-type		101: 100W		S2: 1-phase 220V		M0: 48×165×155 M1: 48×175×195	
		G: Generic		201: 200W		T2: 3-phase 220V		M2:75×175×195 M3: 100×203×218	
				102: 1kW		T3: 3-phase 380V		ML3: 275×118×223 M4: 185×380×215	
				..., ...				M5:210×420×234 M6:268.4×498×234	
								M7: 310×576×234 M8:355×555×290	
6		7		8		9			
Code: Certification		Code: Communications		Code: Feedback				Code: Brake	
U1: CE		F4: CANopen		D20:Differential rotatory resolver		D50:14 pin 2500 line incremental encoder		B1/blank: Internal resistor braking	
		F5:EtherCAT		D51:8 pin 2500 line incremental encoder		D52:4 pin 23 bit incremental encoder		B3:Dynamic braking + Resistor braking	
				D70:4 pin 17 bit absolute encoder		D71:4 pin 23 bit absolute encoder		B6:External resistor braking	
				D72:4 pin 23 bit single-turn absolute encoder		D80:4 pin 17 bit magnetic encoder			

Technical specifications

Voltage/ Frequency	S2/T2 series	220VAC -15...+10% 50/60Hz
	T3 series	380V...440V -15...+10% 50/60Hz
Control mode		1. Profile position control (PP) 2. Profile velocity mode (PV) 3. Profile torque mode (PT) 4. Homing mode (HM) 5. Cyclic synchronous position mode (CSP) 6. Cyclic synchronous velocity mode (CSV) 7. Cyclic synchronous torque mode (CST)
Resistor braking		Built-in or External Brake Resistor (External Resistor Sold Separately) The M1 model does not include a built-in brake resistor. Drives with a power rating of 7.5kW or above do not include a built-in brake resistor. All other models come with a built-in brake resistor.

QD25-E PROFINET Servo Drive

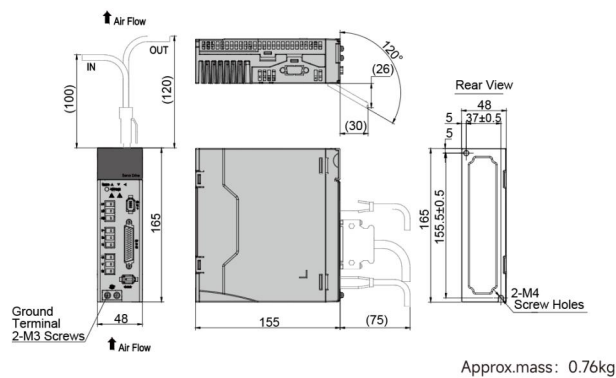
Technical specifications		
Control characteristics	Control method	Permanent magnet synchronous motor
	Speed response frequency	Permanent magnet synchronous servo: 3.0kHz
	Speed fluctuation rate	±0.01% (load 0...100%)
	Speed fluctuation	Permanent magnet synchronous motor ± 0.01% (VC, Load 0 - 100%)
	Speed control ratio	1: 10000
EtherCAT	Protocol	EtherCAT
	Supported services	CoE (PDO、SDO)
	Synchronization	DC distributed clock
	Physical layer	100BASE-TX
	Communication speed	100 Mbit/s (100Base-TX)
	Duplex mode	Full duplex
	Transmission medium	Shielded CAT5E or higher network cable
	Transmission distance	Less than 100 meters between two nodes (in good environmental and cable conditions)
	Number of slaves	Max. 65,535*
	Synchronization jitter between two slaves	< 1 μs
	Minimum communication cycle	250 μs
Input signal	Control inputs	Servo enable, alarm reset, command pulse clear, command pulse disable, forward rotation prohibited, reverse rotation prohibited, forward torque limit, reverse torque limit, internal speed selection, internal position trigger, home/mechanical home position retrieval trigger, zero speed clamping, probe and others
	Encoder	1. Absolute encoder 2. Incremental encoder 3. Rotatory resolver 4. Magnetic encoder
Output signal	Control outputs	Servo ready, Servo alarm, Position reached, Speed reached, Electromagnetic brake output, Rotation detection, Speed limitation active, Home position found, Torque limitation active and others
	Encoder signal frequency division output	Three output options: 1. Encoder Z-phase open collector output 2. Encoder A and B-phase frequency division differential output (non-isolated), with arbitrary division; 3. Z pulse time extension function
Position control	Input options	Provided via EtherCAT, internal registers, or high-speed pulse input
	Electronic gear ratio	1. $0.01 \leq B / A \leq 100$ 2. Supports two electronic gears: users can select or switch based on their needs
Acceleration/Deceleration		Acceleration/deceleration time setting: 1 to 32,000 ms from 0 to rated speed, with adjustable time
Communications		1. RS485/RS232 interface for connecting to a PC to set and monitor servo control parameters 2. Supports EtherCAT bus
Parameter configuration	Keyboard	Parameter adjustment via four buttons, with settings displayed on a 5-digit LED
	Master station	Via RS485, RS232 serial port
Monitoring		Output current, bus voltage, motor speed, motor feedback pulses, command pulses, command pulse error, command speed, command torque and others
Warnings		Type 1: over voltage trip, over current trip, encoder fault, emergency stops, torque imbalance and others Type 2: under voltage trip, drive I.T exceeded limit, fatal velocity error exceeded, controller over-temperature, supply phase loss detected, pulse control command error, regenerative braking fault, excessive position deviation, encoder battery dead and others
Load inertia		Less than 5 times the servo motor's inertia

* **Note:** Maximum of 100 units in use.

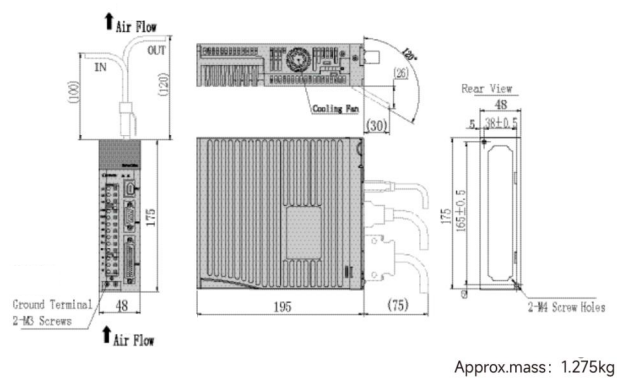
QD25-E PROFINET Servo Drive

[Dimensions]

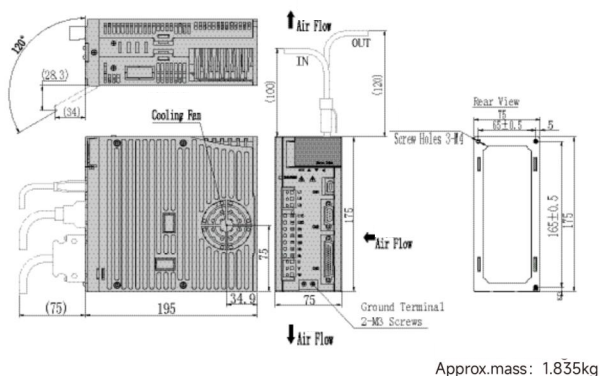
M0 dimensions



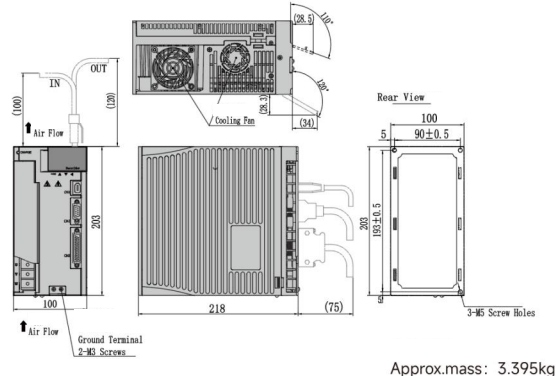
M1 dimensions



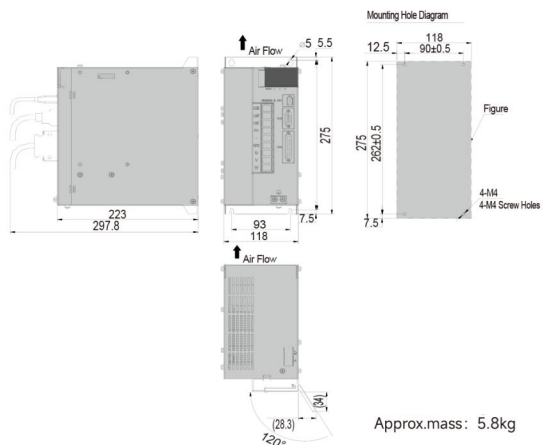
M2 dimensions



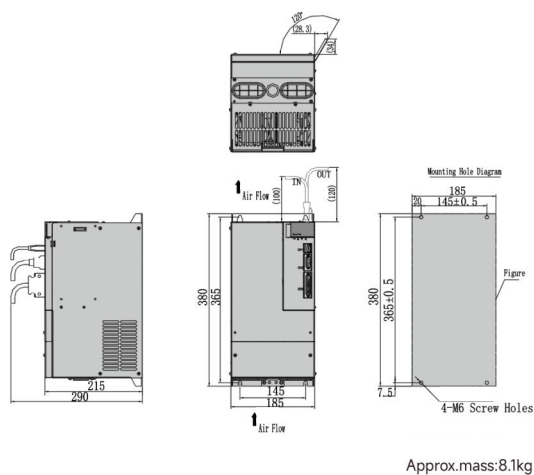
M3 dimensions



ML3 dimensions

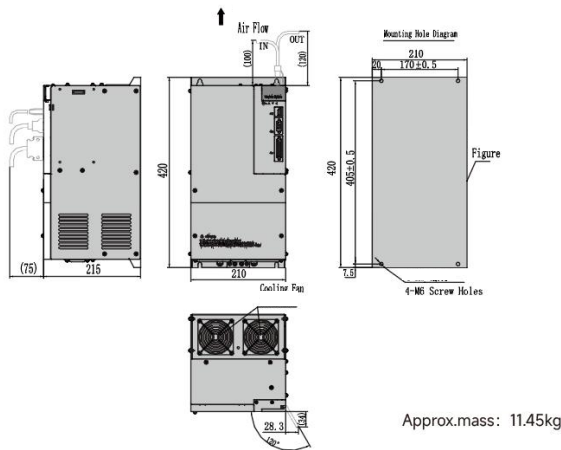


M4 dimensions

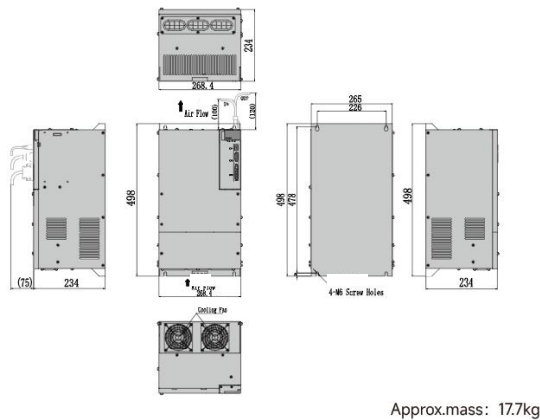


QD25-E PROFINET Servo Drive

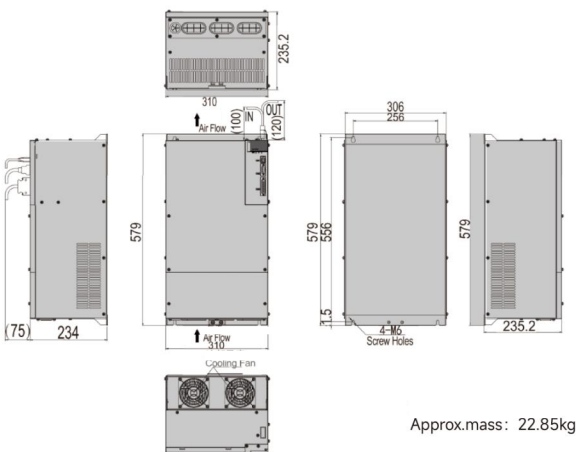
M5 dimensions



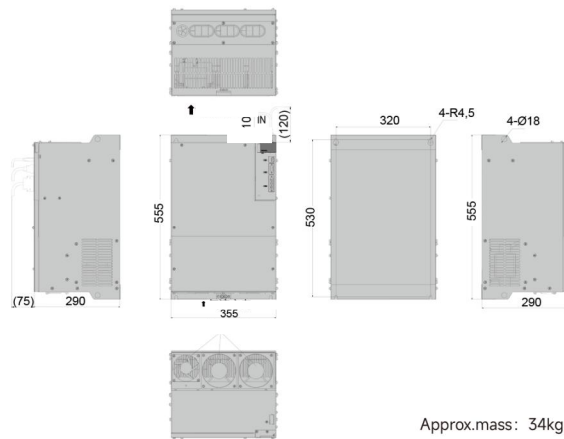
M6 dimensions



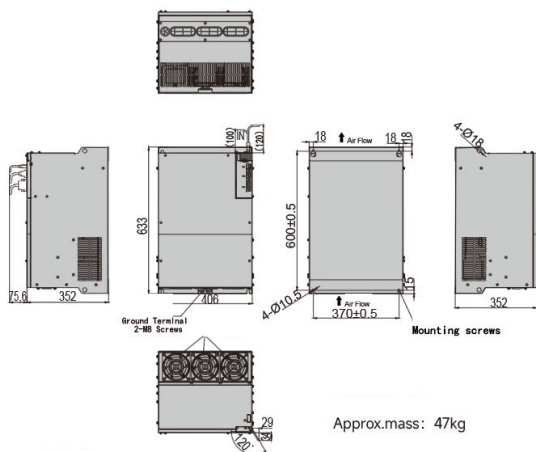
M7 dimensions



M8 dimensions



M9 dimensions

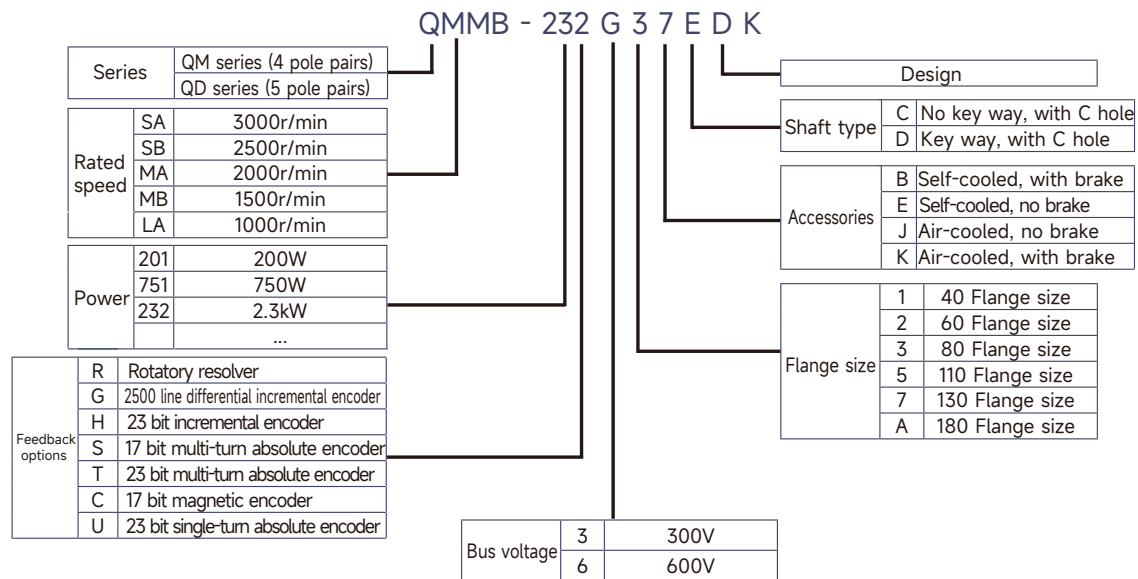


Unit: mm

General Purpose Servo Motors

【Ordering Information】

Servo motors with flange ≤ 180 mm



General Purpose Servo Motors - Technical specifications

(1) 220 V AC servo motor

Type designation		Rated power	Rated torque	Rated Amps	Motor inertia	Rated speed
		W	N • m	A	10 ⁻⁴ Kg • m ²	r/min
QMS series	QMSA-101*31***	100	0.32	0.6	0.051	3000
	QMSA-201*32***	200	0.64	1.2	0.175	3000
	QMSA-401*32***	400	1.27	2.8	0.29	3000
	QMSA-751*33***	750	2.39	3.5	1.82	3000
	QMSA-102*33***	1000	3.5	4.5	2.63	3000
	QMSA-122*35***	1200	4	5	5.4	3000
	QMSA-152*37***	1500	5	7.5	10.6	3000
	QMSA-182*35***	1800	6	8	7.6	3000

General Purpose Servo Motors - Technical specifications

东逝水

Type designation		Rated power	Rated torque	Rated Amps	Motor inertia	Rated speed
		W	N • m	A	10 ⁻⁴ Kg • m ²	r/min
QMS series	QMSA-232*37***	2300	7.7	10.6	15.3	3000
	QMSA-302*37***	3000	10	15.5	19.4	3000
	QMSB-102*33***	1000	3.82	4	2.97	2500
	QMSB-152*37***	1500	6	7	13.77	2500
	QMSB-202*37***	2000	7.7	9.9	15.3	2500
	QMSB-262*37***	2600	10	11.8	22	2500
QMM series	QMMA-801*35***	800	4	3.5	5.4	2000
	QMMA-851*37***	850	4	4	8.5	2000
	QMMA-102*37***	1000	5	5	10.6	2000
	QMMA-122*35***	1200	6	5.2	7.6	2000
	QMMA-132*37***	1300	6	6	12.6	2000
	QMMA-152*37***	1500	7.7	7.5	15.2	2000
	QMMA-202*37***	2000	10	10	19.4	2000
	QMMA-312*37***	3100	15	14	27.7	2000
	QMMA-352**3A***	3500	17.2	16	65	2000
QMM series	QMMB-122*37***	1200	7.7	5.5	15.3	1500
	QMMB-152*37***	1500	10	6.6	19.4	1500
	QMMB-232*37***	2300	14.6	10	27.7	1500
	QMMB-302*3A***	3000	19	12	70	1500
	QMMB-432*3A***	4300	27	16	96.4	1500
	QMMB-552*3A***	5500	35	24	122.5	1500
QML series	QMLA-102*37***	1000	10	4.5	19.4	1000
	QMLA-152*37***	1500	14.3	7	27.7	1000
	QMLA-292*3A***	2900	27	12	96.4	1000
	QMLA-372*3A***	3700	35	16	122.5	1000

(2) 380 V AC servo motor

Type designation		Rated power	Rated torque	Rated Amps	Motor inertia	Rated speed
		W	N • m	A	10 ⁻⁴ Kg • m ²	r/min
QMS series	QMSA-751*63***	750	2.39	2	1.82	3000
	QMSA-102*63***	1000	3.5	3	2.63	3000
	QMSA-122*65***	1200	4	4	5.4	3000
	QMSA-152*67***	1500	5	5	10.6	3000
	QMSA-182*65***	1800	6	6	7.6	3000
	QMSA-232*67***	2300	7.7	7	15.3	3000
	QMSA-302*67***	3000	10	8	19.4	3000
QMS series	QMSB-502*6A***	5000	19	12.5	70	2500
QMM series	QMMA-801*65***	800	4	2.5	5.4	2000
	QMMA-851*67***	850	4	3	8.5	2000
	QMMA-102*67***	1000	5	3	10.6	2000
	QMMA-122*65***	1200	6	3.5	7.6	2000
	QMMA-132*67***	1300	6	3.5	12.6	2000
	QMMA-152*67***	1500	7.7	4.5	15.2	2000
	QMMA-202*67***	2000	10	5.5	19.4	2000
	QMMA-312*67***	3100	15	9	27.7	2000
	QMMA-352*6A***	3500	17.2	9	65	2000
	QMMA-452*6A***	4500	21.5	10	79.6	2000
	QMMA-602*6A***	6000	27	14	96.4	2000
	QMMA-752*6A***	7500	35.8	18	122.5	2000
	QMMA-103*6A***	10000	48	24	167.2	2000

General Purpose Servo Motors - Technical specifications

Type designation		Rated power	Rated torque	Rated Amps	Motor inertia	Rated speed
		W	N • m	A	10 ⁻⁴ Kg • m ²	r/min
QMM series	QMMB-122*67***	1200	7.7	4	15.3	1500
	QMMB-152*67***	1500	10	4	19.4	1500
	QMMB-232*67***	2300	14.6	6	27.7	1500
	QMMB-302*6A***	3000	19	8	70	1500
	QMMB-432*6A***	4300	27	10	96.4	1500
	QMMB-552*6A***	5500	35	12.5	122.5	1500
	QMMB-752*6A***	7500	48	17	167.2	1500
QML series	QMLA-102*67***	1000	10	3	19.4	1000
	QMLA-292*6A***	2900	27	7	96.4	1000
	QMLA-372*6A***	3700	35	9	122.5	1000

(3) 220 V motor with 5 pole pairs

Type designation		Rated power	Rated torque	Rated Amps	Motor inertia	Rated speed
		W	N • m	A	10 ⁻⁴ Kg • m ²	r/min
QDSA series	QDSA-201*32**A	200	0.64	1.5	0.28	3000
	QDSA-401*32**A	400	1.27	2.5	0.52	3000
	QDSA-751*33**A	750	2.39	3.5	1.48	3000
	QDSA-102*33**A	1000	3.3	4.4	2.27	3000
	QDSA-152*37**K	1500	4.8	6.7	12.4	3000
QDMB series	QDMB-851*37**K	850	5.4	3.9	12.4	1500
	QDMB-132*37**K	1300	8.4	5.8	17.3	1500
	QDMB-152*37**K	1500	9.6	7	19.8	1500
QDMA series	QDMA-102*37**K	1100	5.4	5.2	12.4	2000
	QDMA-152*37**K	1500	7.5	7	15.9	2000
	QDMA-202*37**K	2000	9.6	9.2	19.8	2000
	QDMA-242*37**K	2400	11.5	11	24.6	2000
	QDMA-302*37**K	3000	14.6	13.5	33.3	2000

General Purpose Servo Motors - Torque curves

【Torque-speed curve】

Test method:

1. Servo motors with 60/80 mm flange are tested when mounted on a 260 mm × 260 mm × 28 mm cast iron mounting plate.

Servo motors with 110/130/180 mm flange are tested when mounted on a 360 mm × 360 mm × 38 mm cast iron mounting plate.

2. A matched servo drive is used for testing, with the drive input voltage set to the rated voltage.

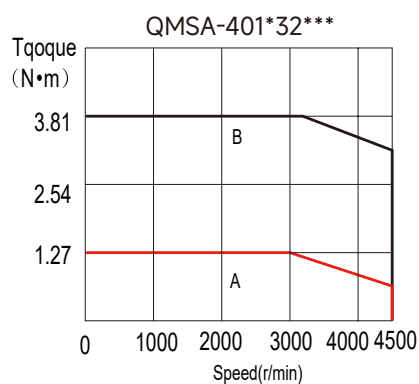
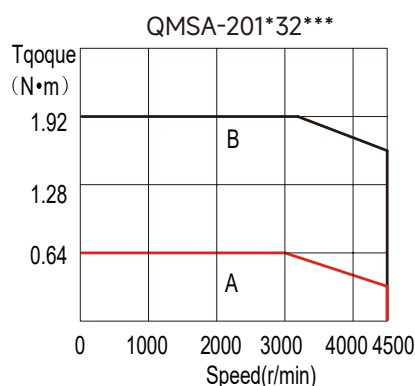
Notes

1. The usable range of continuous operation (A) and short-time operation (B) may be affected by input voltage and power cable length. Lower input voltage or longer cables can reduce the available operating range.

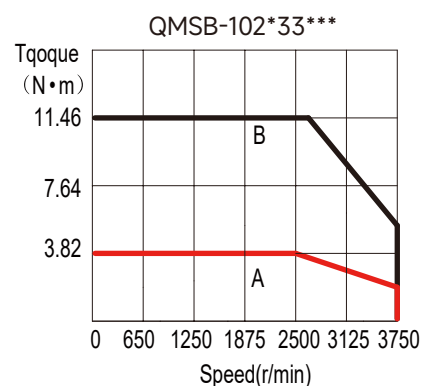
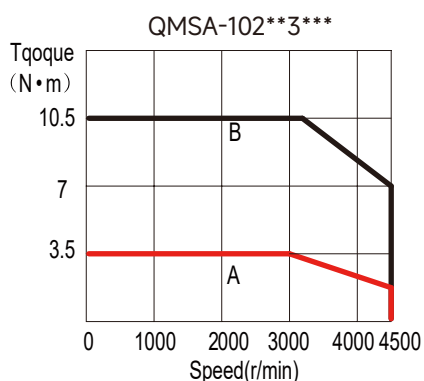
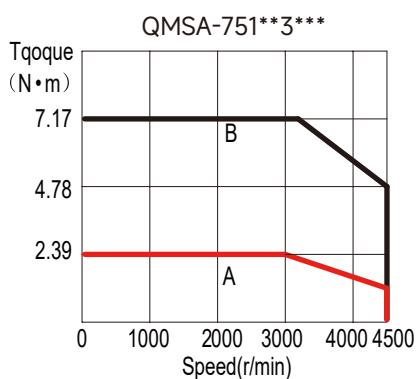
2. Region (A) is tested under rated conditions as described. In actual use, differences in mounting method, contact area, or environment may increase motor temperature rise. Please confirm whether the motor's thermal performance meets your application requirements.

* — Intermittent Load Torque (Nm) — Continuous Load Torque (Nm)

Motors with 60 mm flange

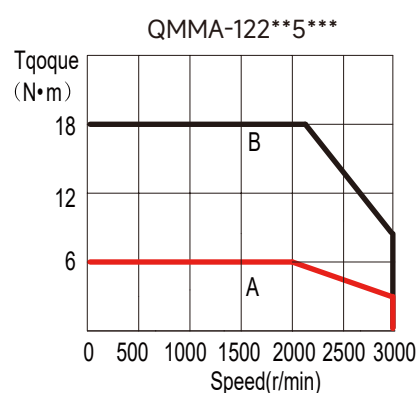
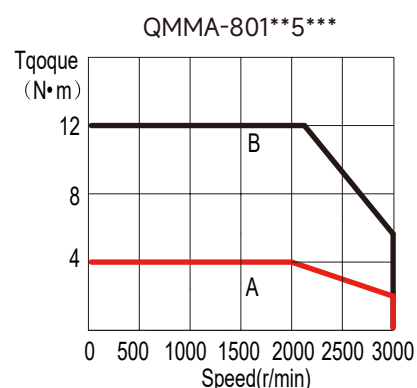
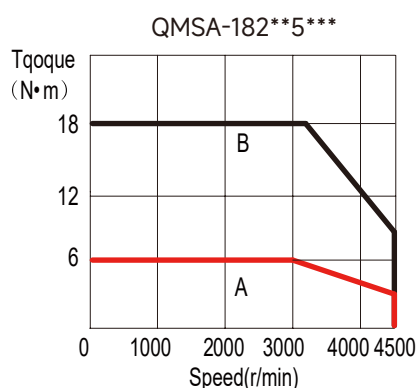
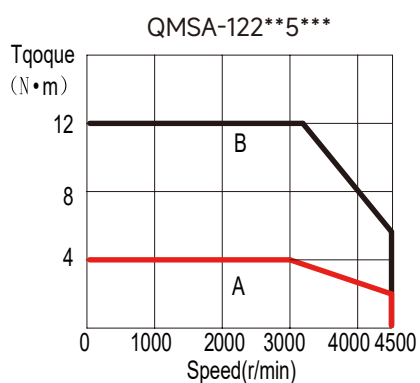


Motors with 80 mm flange

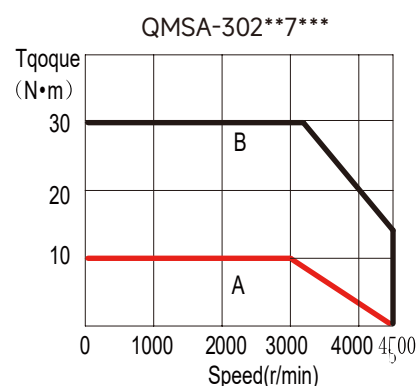
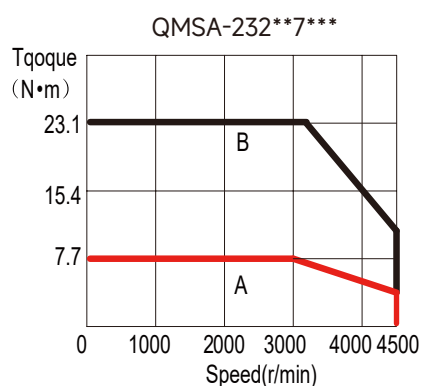
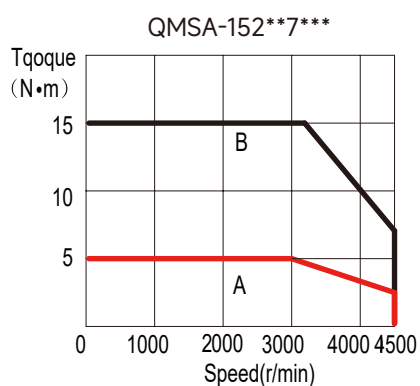


General Purpose Servo Motors - Torque curves

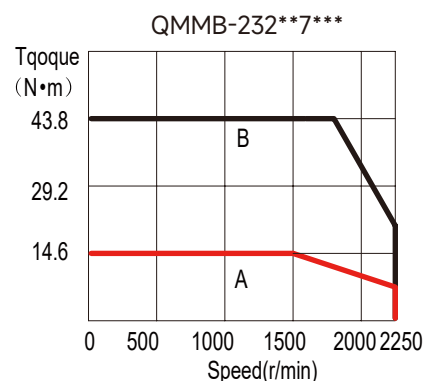
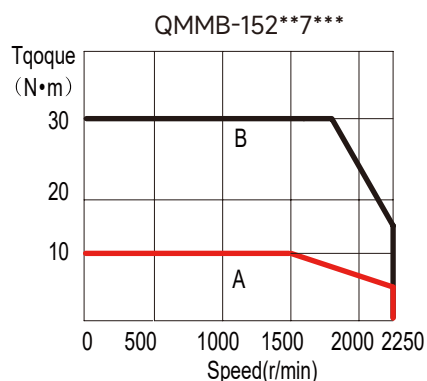
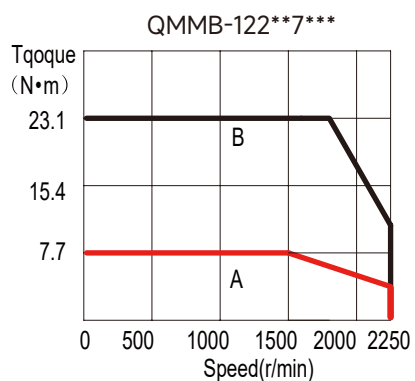
Motors with 110 mm flange



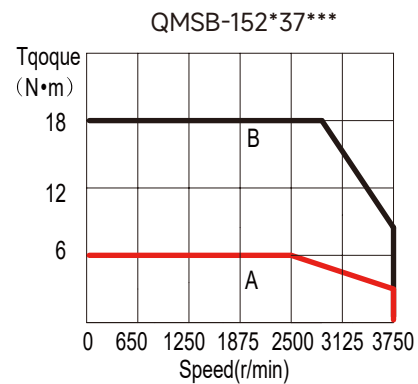
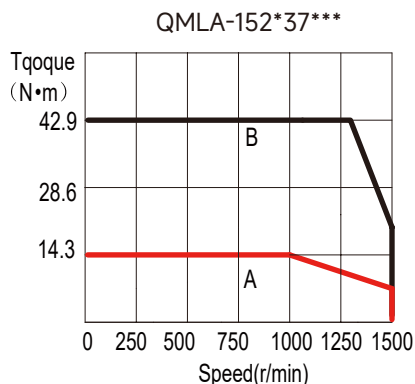
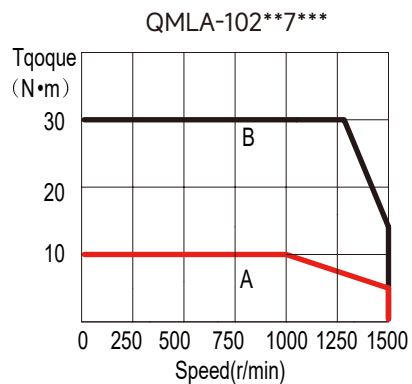
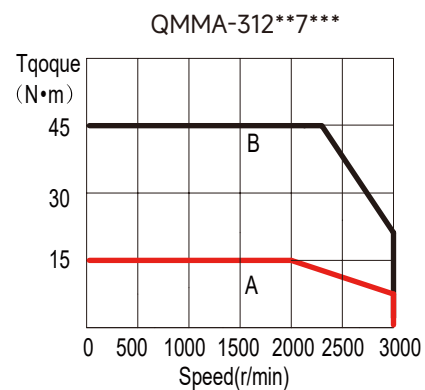
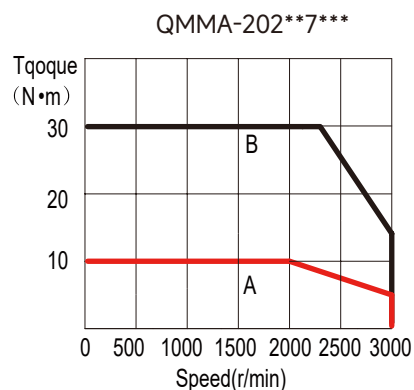
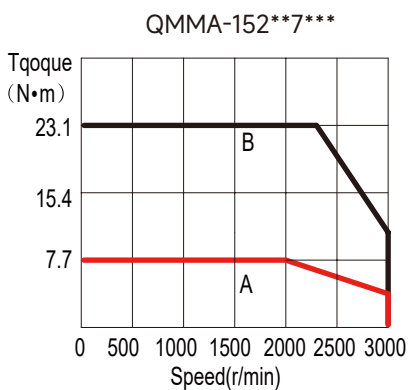
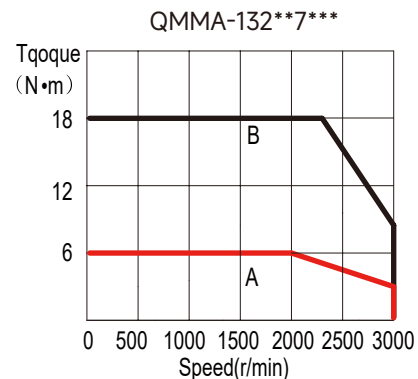
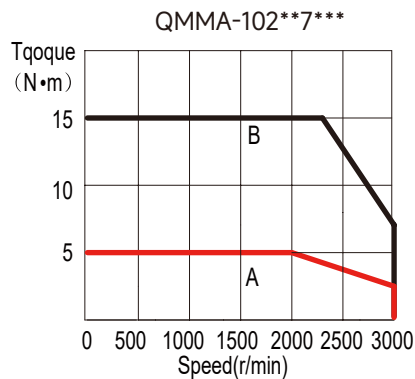
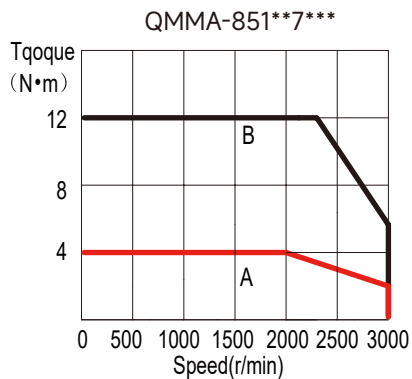
Motors with 130 mm flange



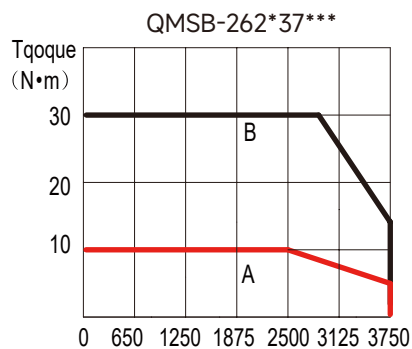
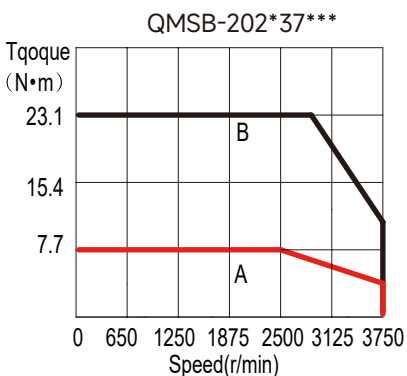
Motors with 130 mm flange



General Purpose Servo Motors - Torque curves

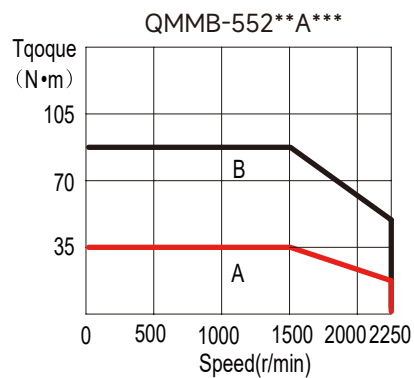
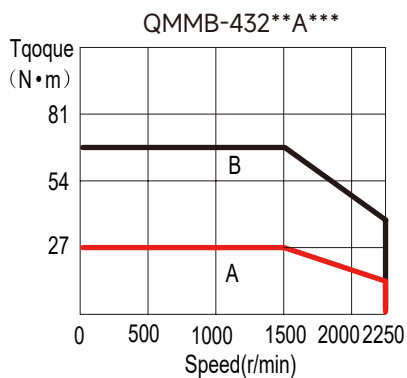
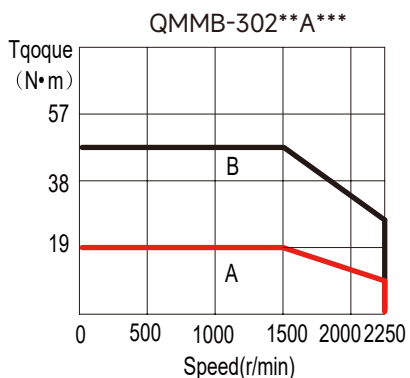
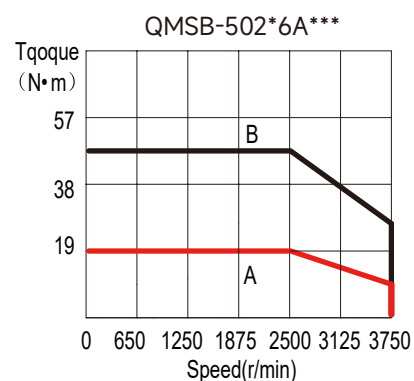
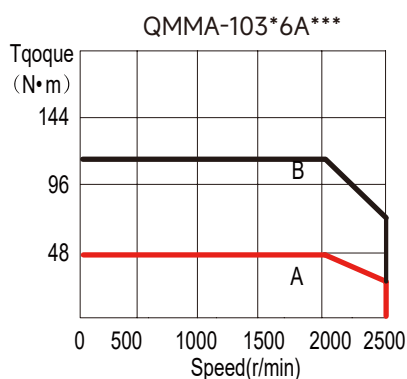
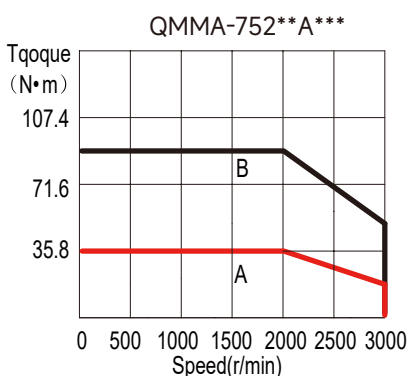
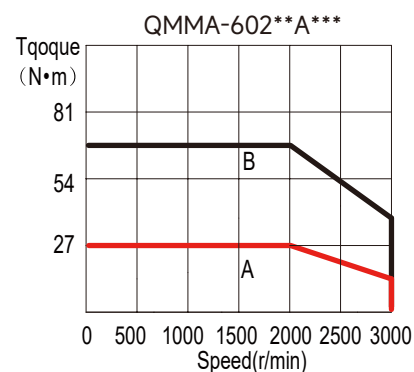
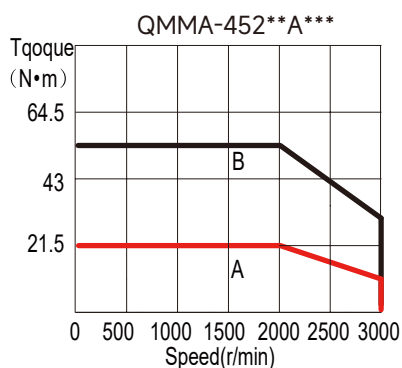
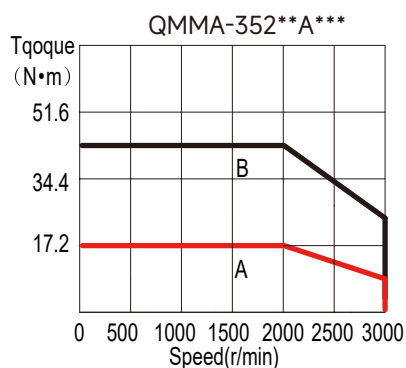


Motors with 130 mm flange

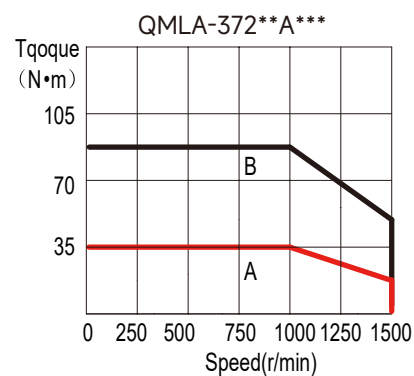
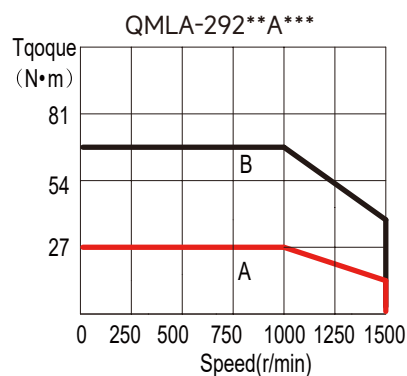
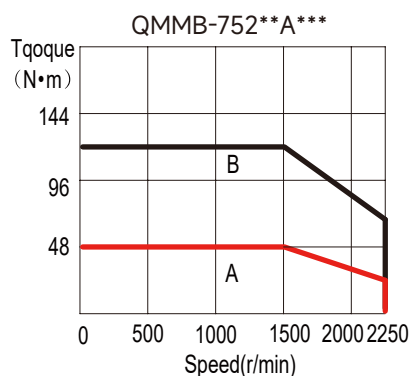


General Purpose Servo Motors - Torque curves

Motors with 180 mm flange

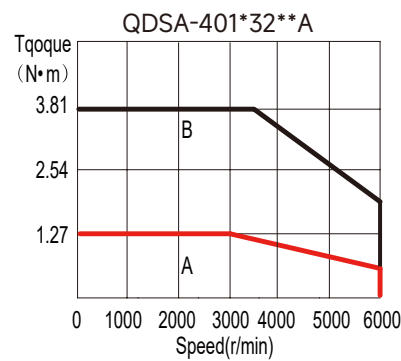
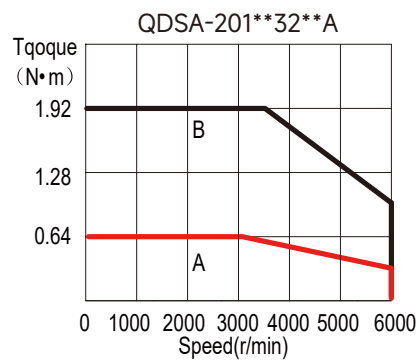


Motors with 180 mm flange

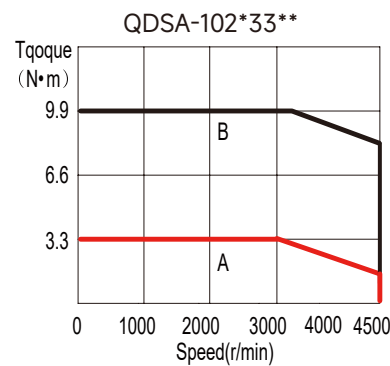
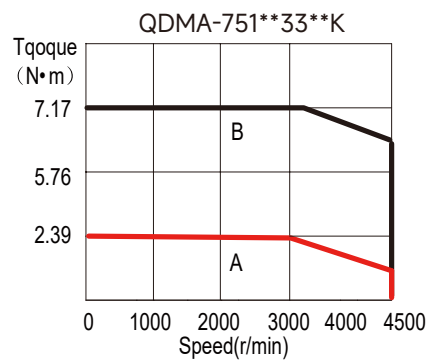


General Purpose Servo Motors - Torque curves

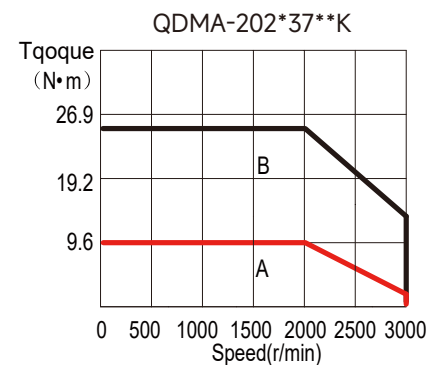
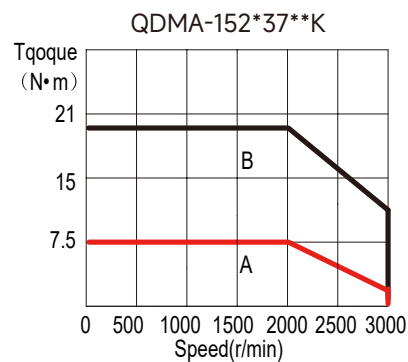
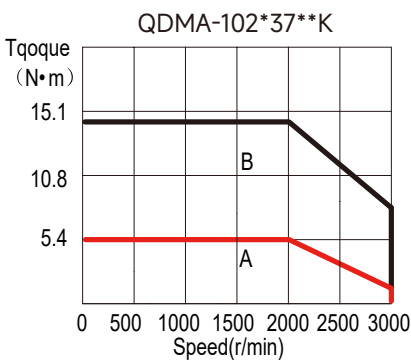
Motors with 5 pole pairs, 60 mm flange



Motors with 5 pole pairs, 80 mm flange

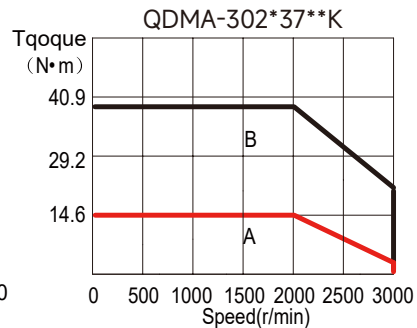
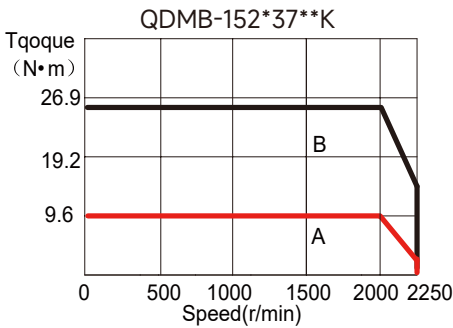
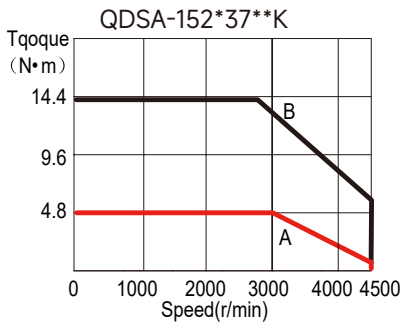
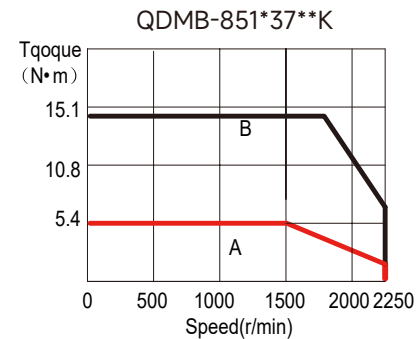
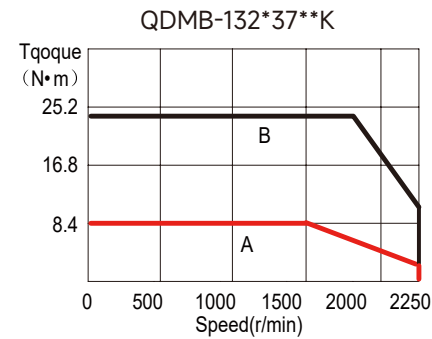
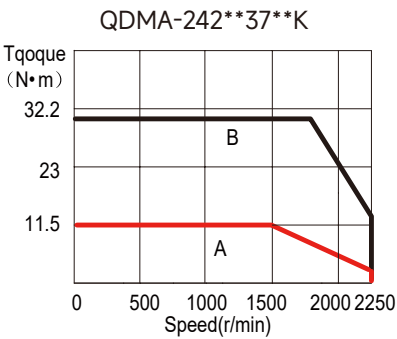


Motors with 5 pole pairs, 130 mm flange



General Purpose Servo Motors - Torque curves

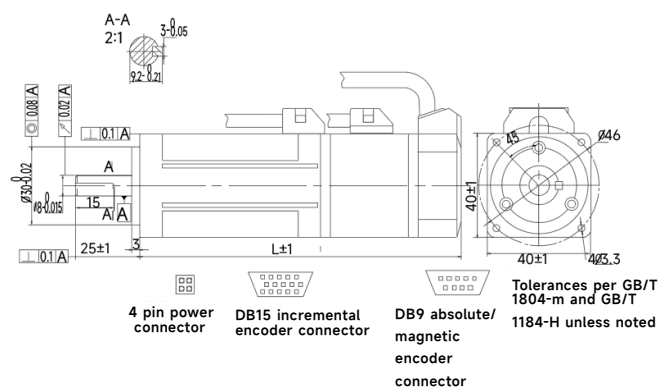
Motors with 5 pole pairs, 130 mm flange



General Purpose Servo Motors - Dimensions

【Motor drawings】

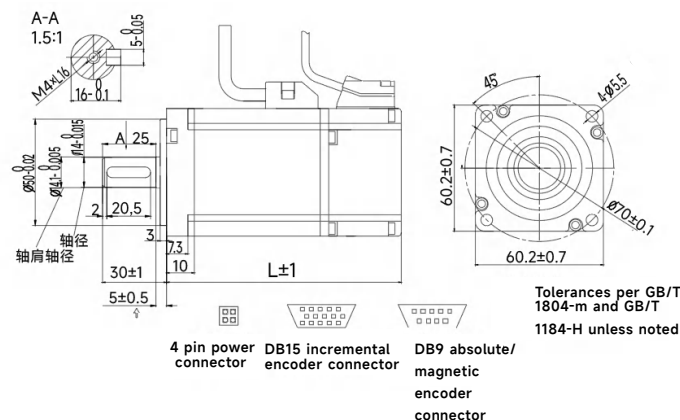
Servo motors with 4 pole pairs, 40 mm flange



Type designation	L(mm)	Weight (Kg) (without brake)
QMSA-101*31***	90	0.47

* The distance from the shaft shoulder to the flange is for reference only. If special requirements exist, please inform us before ordering.

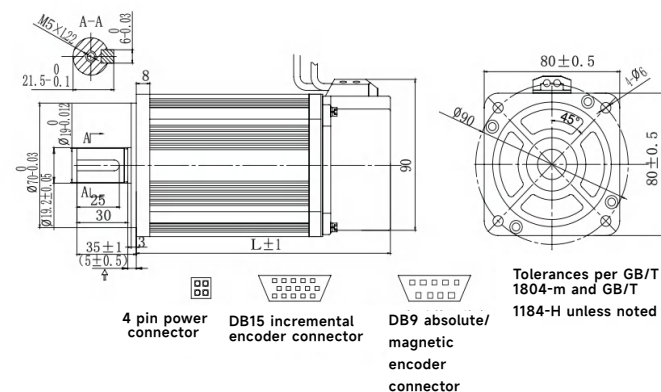
Servo motors with 4 pole pairs, 60 mm flange



Type designation	L(mm)	L(mm) (with brake)	Weight (Kg) (without brake)	Weight (Kg) (with brake)	Note
QMSA-201*32***	116	157	1.16	1.56	Screw diameter
QMSA-401*32***	141	182	1.6	2.1	M4X16

* The distance from the shaft shoulder to the flange is for reference only. If special requirements exist, please inform us before ordering.

Servo motors with 4 pole pairs, 80 mm flange



Type designation	L(mm)	L(mm) (with brake)	Weight (Kg) (without brake)	Weight (Kg) (with brake)	Note
QMSA-751**3***	151	191	2.9	3.6	Screw diameter M5X22
QMSA-102**3***	179	219	3.9	4.6	
QMSB-102**3***	191	231	4.1	4.8	

* The distance from the shaft shoulder to the flange is for reference only. If special requirements exist, please inform us before ordering.

General Purpose Servo Motors

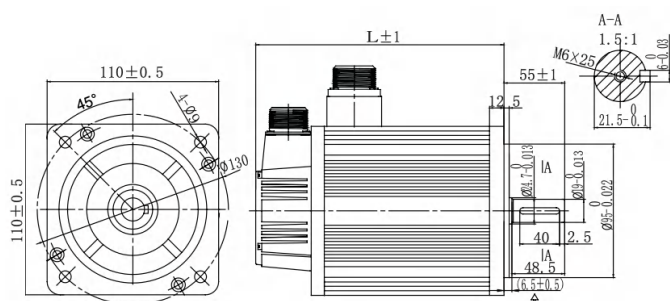


Overview

Motor type	Permanent magnet synchronous servo motor
Flange size (mm)	40、60、80、110、130、180
Input voltage (VAC)	220/380
Rated power (kW)	0.1-10
Brake	Optional
Feedback options	Rotatory resolver, absolute encoder
Thermal protection	PTC、KTY
Insulation class	F
Cooling method	IC410 (Self-cooled)
Mounting	B5
Degree of protection	IP65; IP54
Operating temperature (°C)	-20...+40

General Purpose Servo Motors - Dimensions

Servo motors with 4 pole pairs, 110 mm flange



技术要求:
未注尺寸公差按照GB/T 1804-m及GB/T1184-H

Type designation	L(mm)	L(mm) (with brake)	Weight (Kg) (without brake)	Weight (Kg) (with brake)	Note
QMSA-122**5***	189	243	6	7.9	Screw diameter
QMMA-801**5***					
QMSA-182**5***	219	273	7.9	9.8	
QMMA-122**5***					

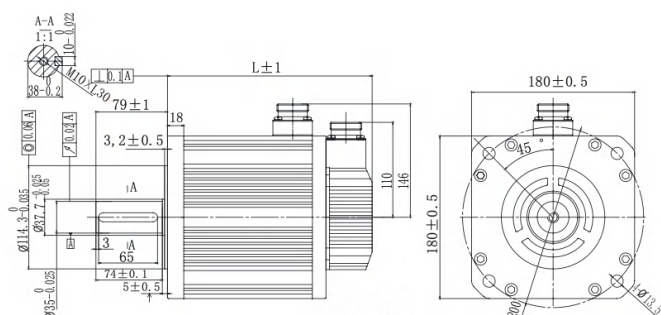
* The distance from the shaft shoulder to the flange is for reference only. If special requirements exist, please inform us before ordering.

Servo motors with 4 pole pairs, 130 mm flange

Type designation	L(mm)	L(mm) (with brake)	Weight (Kg) (without brake)	Weight (Kg) (with brake)	Note
QMMA-851**7***	166	217	6.2	8.75	Screw diameter M6X25
QMSA-152**7*** QMMA-102**7***	171	222	6.6	9.15	
QMMA-132**7*** QMSB-152**7***	179	230	7.4	9.95	
QMSA-232**7*** QMMA-152**7*** QMMB-122**7*** QMSB-202**7***	192	243	8.3	10.85	
QMSA-302**7***	209	260	9.8	12.35	
QMMA-202**7*** QMMB-152**7*** QMLA-102**7*** QMSB-262**7***	213	264	10.2	12.75	
QMMA-312**7*** QMLA-152**37***	231	282	11.7	14.25	
QMMB-232**7***	241	292	12.2	14.75	

* The distance from the shaft shoulder to the flange is for reference only. If special requirements exist, please inform us before ordering.

Servo motors with 4 pole pairs, 180 mm flange



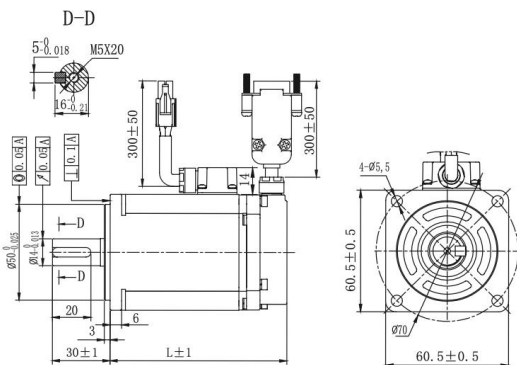
技术要求:
未注尺寸公差按照GB/T 1804-m及GB/T1184-H

Type designation	L(mm)	L(mm) (with brake)	Weight (Kg) (without brake)	Weight (Kg) (with brake)	Note
QMMA-352**A***	226	298	19.5	24.3	Screw diameter
QMMB-302**A***	232	304	19.9	24.7	
QMSB-502**A***					
QMMA-452**A***	243	315	22.2	27	
QMMA-602*6A***	250	322	23.5	28.3	
QMMB-432**A***	262	334	24.6	29.4	
QMLA-292**A***			25.5	30.3	
QMMA-752*6A***	288	360	39	43.8	
QMMB-552**A***	292	364	30.5	35.3	
QMLA-372**A***					
QMMA-103*6A***	334	406	38	42.8	
QMMB-752*6A***	346	418	39	44.8	

* The distance from the shaft shoulder to the flange is for reference only. If special requirements exist, please inform us before ordering.

General Purpose Servo Motors - Dimensions

Servo motors with 5 pole pairs, 60 mm flange

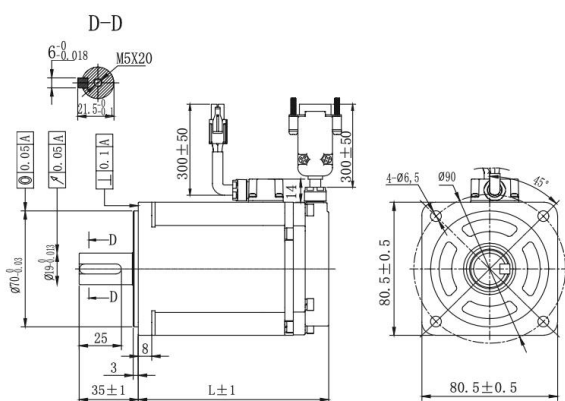


Type designation	L(mm)	L(mm) (with brake)	Weight (Kg) (without brake)	Weight (Kg) (with brake)	Note
QDSA-201(C/D) 32**A	75	105	0.78	1.15	Screwed shaft end
QDSA-201T32**A	94	124	0.78	1.15	
QDSA-401(C/D) 32**A	92	122	1.13	1.5	
QDSA-401T32**A	111	141	1.13	1.5	

Technical Requirements:

1. Unspecified dimensional tolerances are according to GB/T 1804-M and GB/T 1184-H.
2. Lead length: 300 ± 50 mm.

Servo motors with 5 pole pairs, 80 mm flange

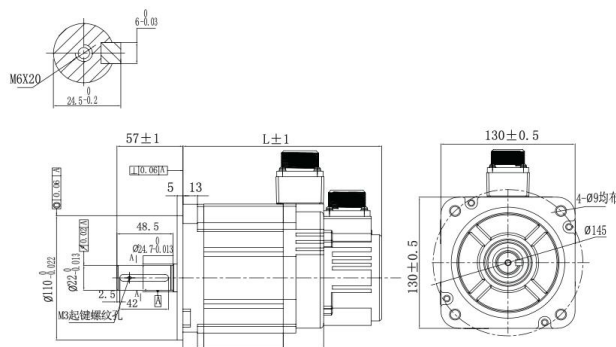


Type designation	L(mm)	L(mm) (with brake)	Weight (Kg) (without brake)	Weight (Kg) (with brake)	Note
QDSA-751(C/D) 33**A	110	134	2.12	2.85	Screwed shaft end
QDSA-751T33**A	119	153	2.12	2.85	
QDSA-102(C/D) 33**A	113	147	2.52	3.26	
QDSA-102T33**A	132	166	2.52	3.26	

Technical Requirements:

1. Unspecified dimensional tolerances are according to GB/T 1804-M and GB/T 1184-H.
2. Lead length: 300 ± 50 mm.

Servo motors with 5 pole pairs, 130 mm flange



Series	Type designation	L(mm)	Weight (Kg) (without brake)	Note
QDMB Series	QDMB-851*37EDK	154	5.5	Screwed shaft end, diameter: M6×20
	QDMB-132*37EDK	174	6.2	
	QDMB-152*37EDK	182	7.1	
QDMA Series	QDMA-102*37EDK	154	5.5	
	QDMA-242*37EDK	201	7.2	
	QDMA-152*37EDK	168	6	
	QDMA-202*37EDK	182	6.6	
	QDMA-302*37EDK	233	8.5	
QDSA Series	QDSA-152*37EDK	154	7.6	

Technical Requirements:

Unspecified dimensional tolerances are according to GB/T 1804-M and GB/T 1184-H.

Mid-to-High Power Servo Motors



Overview

Motor type	Permanent magnet synchronous servo motor
Flange size (mm)	200、264
Input voltage (VAC)	380
Rated power (kW)	10.7-122.5
Brake	Optional
Feedback options	Rotatory resolver, absolute encoder
Thermal protection	PTC、KTY
Insulation class	F
Cooling method	IC416(Air-cooled)
Mounting	B35(Air-cooled)
Degree of protection	IP54(Air-cooled)
Operating temperature (°C)	-20...+40

Mid-to-High Power Servo Motors

Ordering Information

Rated speed

Rated torque

Frame size	Type
Spigot diameter/10	General purpose servo motors

Series

Code	Voltage rating
1	110-130V
2	220-240V
3	380-440V
4	480-516V
9	Others

QM-18F1015K3-F2R4A

Code	Cooling method
A	Self-cooled
F	Air-cooled with fan

Code	Speed X1	Speed X10	Speed X100	Speed X1000	Speed X10000
Torquex1	A	E	J	N	S
Torquex10	B	F	K	P	T
Torquex100	C	G	L	Q	U
Torquex1000	D	H	M	R	V

Code	Versions
blank	Initial release
A	Version A
B	Version B
.....	
Sequential versioning using A, B, C, D...	

Code	No key way	Shaft end fitted key way	Feather Key	Internal spline	External spline	Others
Without oil seal, no brake	A	E	J	N	S	W
With oil seal, no brake	B	F	K	P	T	Y
Without oil seal, with brake	C	G	L	Q	U	1
With oil seal, with brake	D	H	M	R	V	2

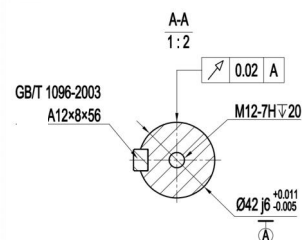
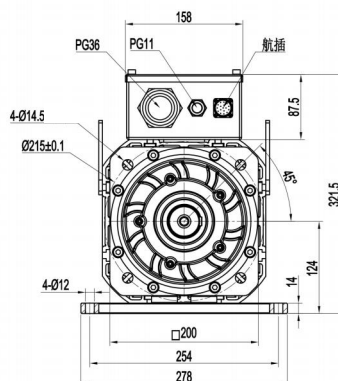
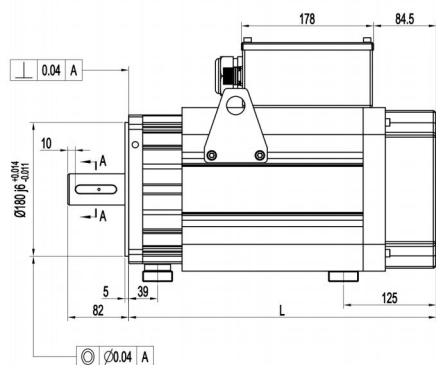
Code	No foot	Standard foot	Other foot	No ventilation plate & fan
Lead with terminal box	1	2	3	-
Signal connector	4	5	6	-
Others	7	8	9	-

Code	Feedback options
R4	Tamagawa, rotary resolver
M4	Tamagawa, 23 bit absolute encoder
S7	SICK, multi-turn absolute encoder, SKM36
S8	SICK, single-turn absolute encoder, SKS36

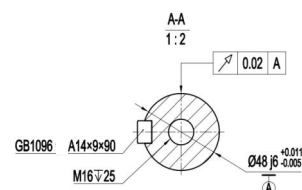
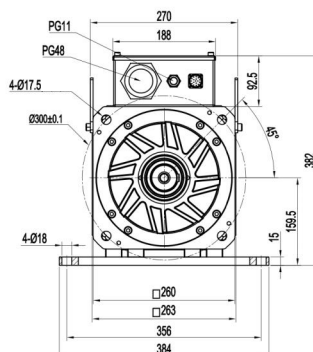
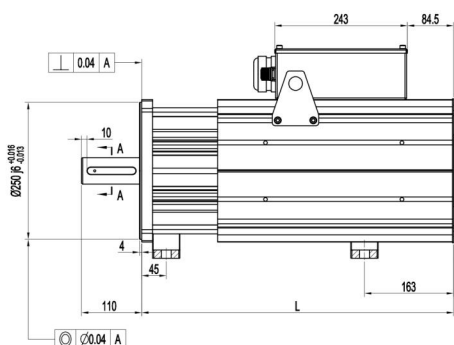
Mid-to-High Power Servo Motors - Technical specifications

Technical specifications															
Type designation	Rated torque	Rated speed	Rated power	Rated power	Torque constant	Voltage constant	Rated frequency	Line resistance	Rated voltage	Efficiency	Rotor inertia	L	Weight	D	Key
	Nm	rpm	Arms	Kw	Nm/A	V/Krpm	Hz	Ω	V	%	kgm²10 ⁻³	mm	KG	mm	mm
QM-18F0615K3-XXXXB	68	1500	15.8	10.7	3.76	228	100	1.073	380	91.6	9.8	378.5	40	-	
QM-18F0620K3-XXXXB	64	2000	23.9	13.4	2.82	171	133	0.603	380	92.0					
QM-18F1015K3-XXXXB	97	1500	31.9	15.2	3.20	193	100	0.473	380	92.2	13.2	414.5	45		
QM-18F1020K3-XXXXB	95	2000	38.0	19.9	2.63	159	133	0.325	380	93.0					
QM-18F1415K3-XXXXB	140	1500	280	22.0	3.55	215	100	0.322	380	93.0	19.8	486.5	59		
QM-18F1420K3-XXXXB	138	2000	276	28.9	2.51	152	133	0.160	380	93.6					
QM-18F1715K3-XXXXB	167	1500	334	26.2	3.20	193	100	0.191	380	93.3	24.7	522.5	68		
QM-18F1720K3-XXXXB	163	2000	326	34.1	2.63	159	133	0.131	380	93.9					
QM-25F2115K3-XXXXA	215	1500	387	33.8	3.29	199	100	0.139	380	94.3	25.7	521.0	85	48	14*9*90
QM-25F2120K3-XXXXA	205	2000	369	42.9	2.67	161	133	0.090	380	95.0					
QM-25F2615K3-XXXXA	265	1500	477	41.6	3.33	202	100	0.105	380	94.6	31.5	571.0	106	48	14*9*90
QM-25F2620K3-XXXXA	250	2000	450	52.4	2.55	154	133	0.062	380	95.5					
QM-25F3615K3-XXXXA	362	1500	652	56.9	3.51	212	100	0.057	380	96.3	89.2	628.5	155	48	18*11*90
QM-25F3620K3-XXXXA	355	2000	639	74.3	2.63	159	133	0.033	380	96.9					
QM-25F4115K3-XXXXA	415	1500	747	65.2	3.37	204	100	0.044	380	96.4	99.8	673.0	173	48	18*11*90
QM-25F4120K3-XXXXA	405	2000	729	84.8	2.70	163	133	0.029	380	97.0					
QM-25F5015K3-XXXXA	504	1500	907	79.2	3.64	220	100	0.042	380	96.4	122.0	741.0	197	60	18*11*90
QM-25F5020K3-XXXXA	495	2000	900	103.7	2.43	147	133	0.018	380	97.1					
QM-25F6015K3-XXXXA	605	1500	1089	95.0	3.46	209	100	0.029	380	96.6	154.0	837.5	233	60	18*11*90
QM-25F6020K3-XXXXA	585	2000	1053	122.5	2.47	150	133	0.015	380	97.2					

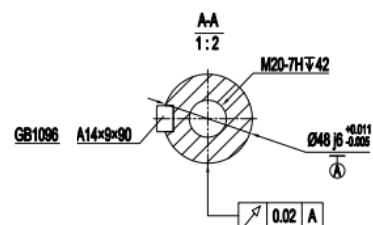
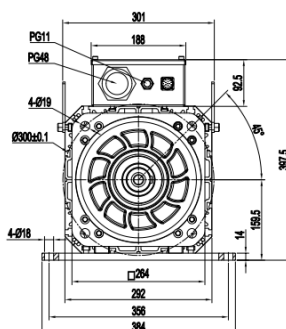
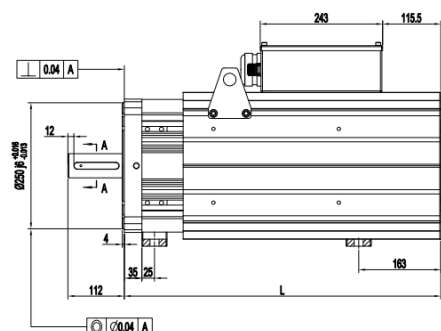
Mid-to-High Power Servo Motors - Dimensions



QM-18F motor drawings



QM-25F motor drawings (QM-25F19XX~QM-25F31XXK3)



QM-25F motor drawings (QM-25F36XX~QM-25F60XXK3)



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