TECO

JSDG2S
JSDE2

TECO AC Servo System

JSDG2S series

High-performance communication servo motor driver

JSDE2 series

Standard servo motor driver

JSMA series

Servo motor series

Integrated Automation Solutions Provider

TECO has long invested in the automation field. In the last 60 years, the company has continued to improve our automation knowledge from induction motors to different electronic control related products.

Following the automation trend

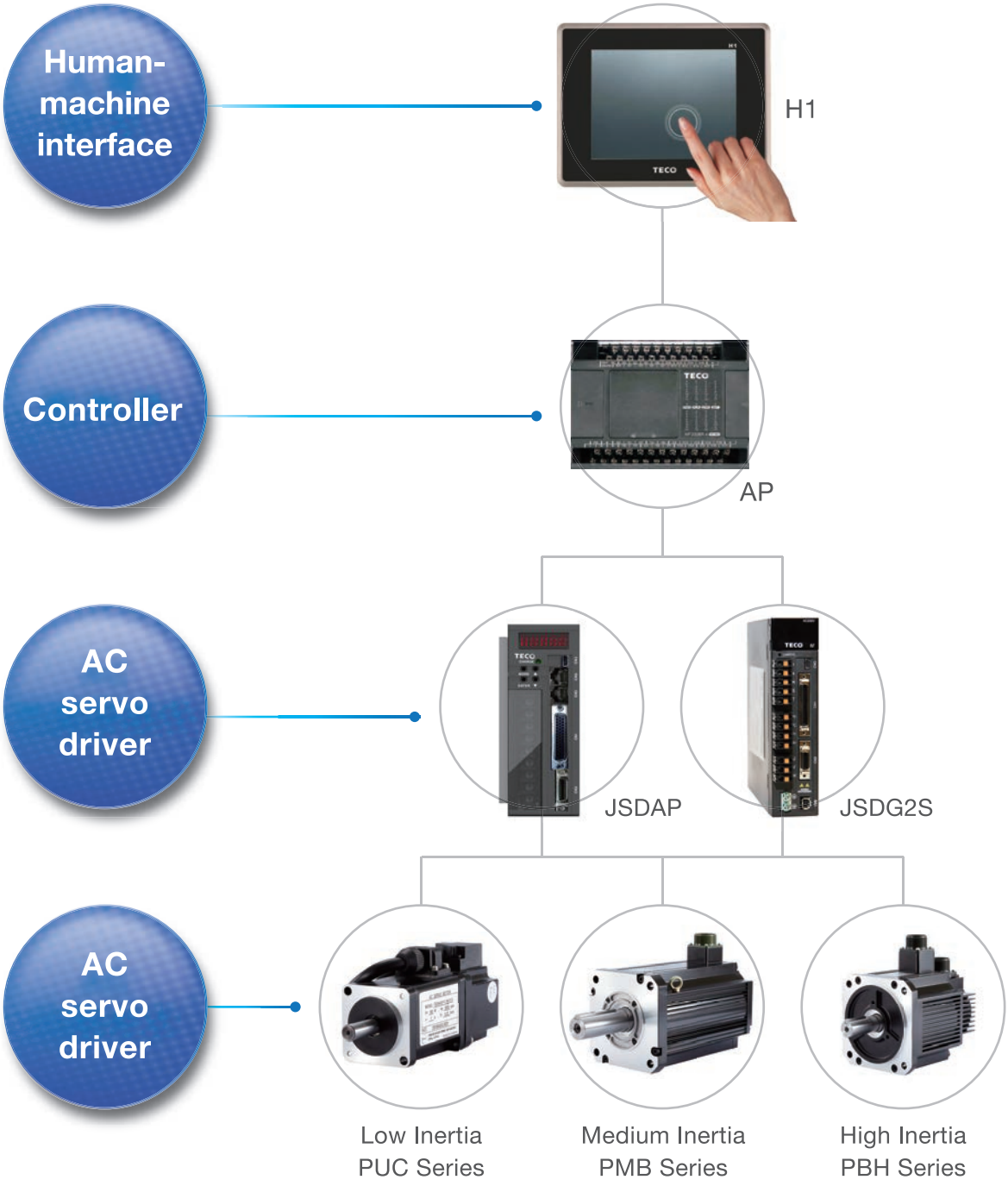
TECO automation integration solutions for motors, drivers, and controllers matched with human-machine interface. TECO can provide different automation system solutions according to the customer's industry demands and applications. TECO professional electronic control skills and rich industry application experience can be used to continuously provide customers with high speed and precise automation products.

Second generation – S

TECO is introducing the second generation servo product JSDG2S. G2 (Generation II) refers to brand new products produced using TECO's market experience integrated with newly developed technology.

The "S" refers to servo characteristics brought to you by TECO. First, the brand new "slim" design clearly shows TECO's technological capabilities. "Stable" demonstrates that TECO servos are precise yet stable. "Suitable" states that TECO's brand new auto-tuning capability can be applied to different types of machines, and can make suitable adjustments.

TECO is a provider of electronic control solutions. We can link multiple types of electronic control products, from base-level equipment up to the control level equipment. We provide systematic solution strategies to satisfy customers' different market application needs.



JSDG2S Features

1.5KHz

High response bandwidth

1.8 times that of the previous generation

- Utilize high-end magnetic field control technology.
- Matched with high-speed computing core component.
- Shorten the arrival setting time.
- Improve the production capability of equipment and machines.

23bit

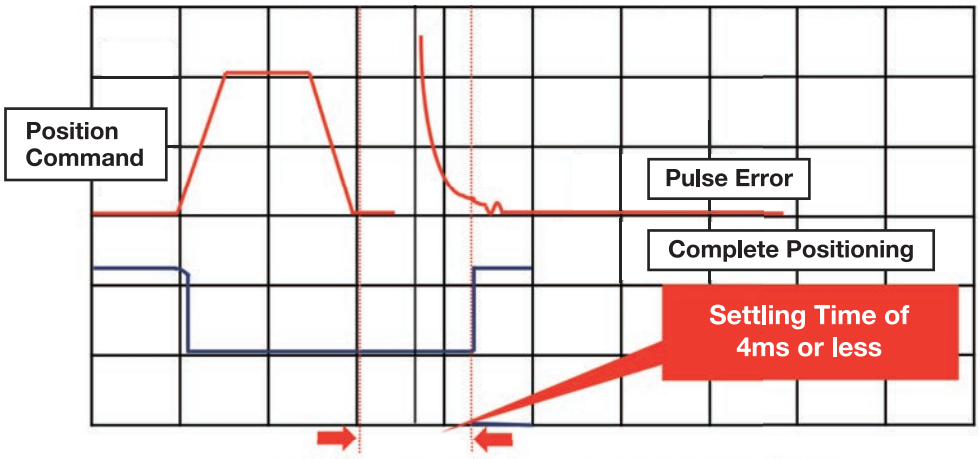
High-resolution encoder

10,000 times that of the previous generation

- 8,388,608 pulse/rev high resolution.
- Can be matched with incremental/absolute encoder.
- Provide machines and equipment with more precise positioning.

G2S high response characteristic can significantly reduce setup time.

*When this data condition uses JSDG2S-15A to match with JSMA-PUC04A3K, and the load inertia ratio is double

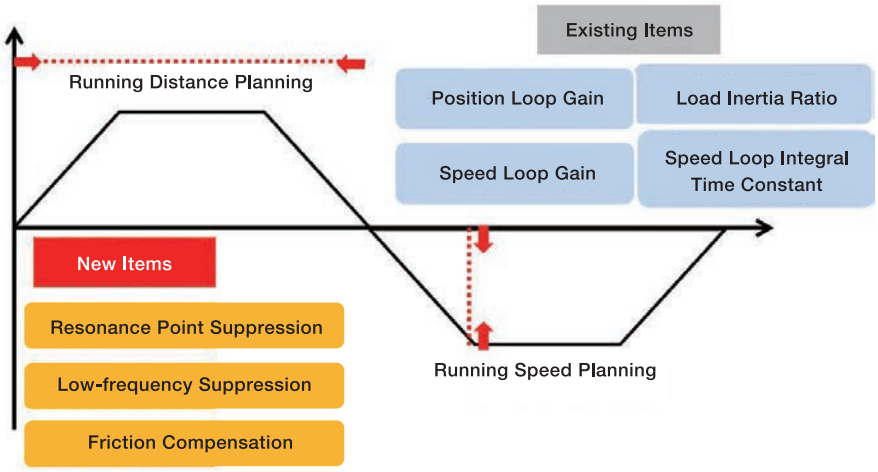


- G2S high response characteristic can significantly reduce setup time.

Automatically adjusts the gain

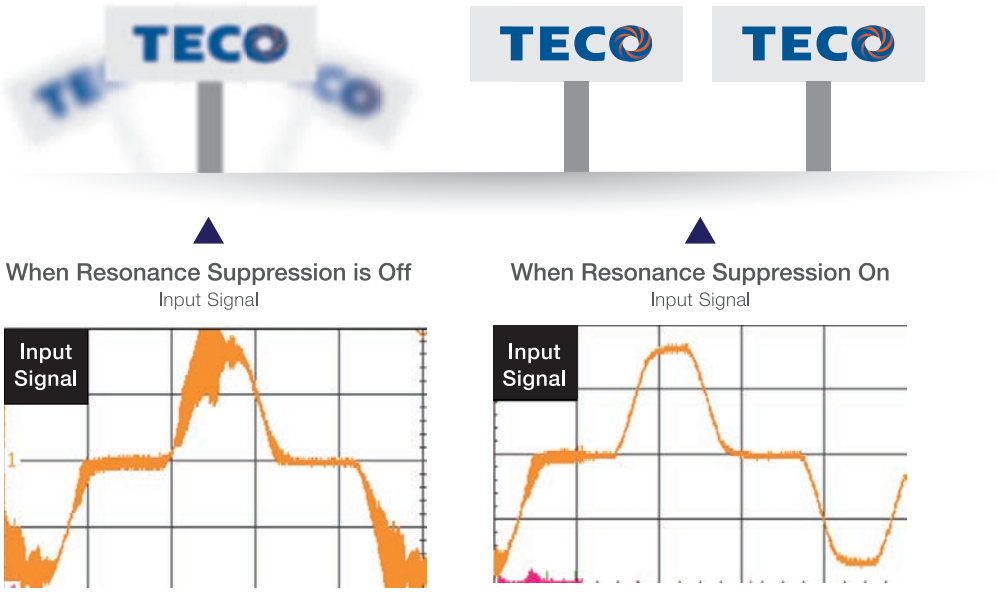
More detailed auto-tuning

In addition to the original normal gain parameters, G2S also has other added adjustment functions so that customers can make more precise adjustments for different applications and requirements. The simple PCLiNK interface can be used to complete setting and adjustments.



Resonance Suppression

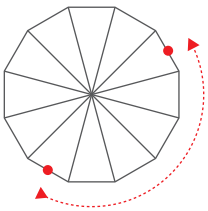
- Solved the resonance frequency of the machine mechanism so that it runs smoothly.
- A total of eight high- and low-frequency resonance suppression points for multi-point setting according to machine requirements.



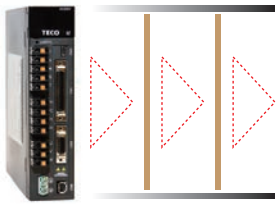
The high frequency setting is 0-2000Hz with a total of five sets.
The low frequency setting is 0-200Hz with a total of three sets.

Multiple application function

In addition to the three major modes (position/speed/torque), other additional application functions such as E-cam, torrent magazine, and gantry simultaneous movement are also provided. The hardware also provides input interface with a fully closed loop (supports optical ruler) to improve the applicability of the driver.



The torrent magazine has built-in smart tool change The shortest path to achieve the maximum benefit



Double-axle gantrysimultaneous control Controls the horizontal movement of rigid mechanisms

High-speed communication function

Realize multiple axle application high-speed communication

- ☑ Realize high-speed communication
- ☑ Reduce machine wiring
- ☑ Realize multiple axle

Match with CANopen (standard)/EtherCAT (optional) high-speed communication function to realize multiple axle high-speed application. Connect with IoT to instantly and rapidly transmit data. Taking the first step towards becoming a smart factory.

EtherCAT | CANopen

Miniaturization design

Miniaturize machine types below 1KW to reduce the size required for the electronic control box and to demonstrate advancements in product design.

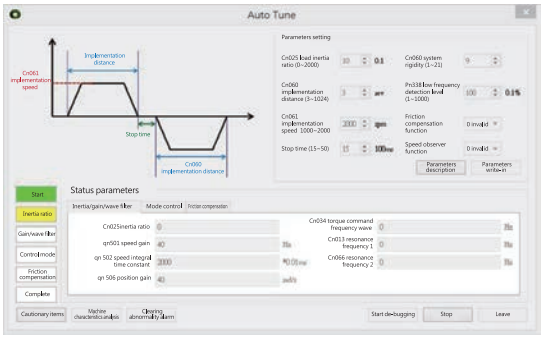
7%

33%

Specialized convenient software

Show parameter functions as menu selections/oscilloscope function

Brand new specialized software that makes it easy for customers to set up and to backup Parameters.



Model Description

Servo Driver

JS D G2S - 15 A □

- JS — TECO AC Servo Product Number
- D — Driver
- G2S — Series: G2S series
- 15 — Model (power):

200V	Model (A)	400V	Model (B)
10	100W	10	750W
15	400W	15	1KW
20	750W	25	2KW
30	1KW	35	3KW
50	2KW	50	4.4KW
75	3KW	75	5.5KW
100	4.4KW	100	7.5KW
150	5.5KW	150	15KW
200	7.5KW	200	22KW
300	15KW		

- A — input Voltage:
  A: AC 200V Single-/Three-phase Common
  A3: AC 200V Three-phase Common
  B: AC 400V three phase input
- □ — Optional model (communications)
  E: EtherCAT communications

Servo Motor

JSMA-PUC04A3□□

- JS — TECO AC Servo Product Number
- M — Servo Motor
- A — A Series
- P — IP67 Rating
- U — Motor Inertia
  S/U: Ultra Low Inertia
  L: Low Inertia
  M/I: Medium Inertia
  B/H: High Inerti
- C — Motor Speed
  A : 1000 rpm
  H : 1500 rpm
  B : 2000 rpm
  C : 3000 rpm
- 04 — Motor Rated Power

P5	50W	10	1KW	44	4.4KW
1	100W	13	1.3KW	55	5.5KW
3	300W	15	1.5KW	75	7.5KW
4	400W	18	1.8KW	110	11KW
5	500W	20	2.0KW	150	15KW
8	750W	29	2.9KW		
9	850W	30	3.0KW		

- A — Motor Speed
  A : AC 200V
  B : AC 400V
- 3 — Encode Specifications
  3 : 23bit
  W : 23bit*
  *ABS
- □ — Key slot / Oil seal

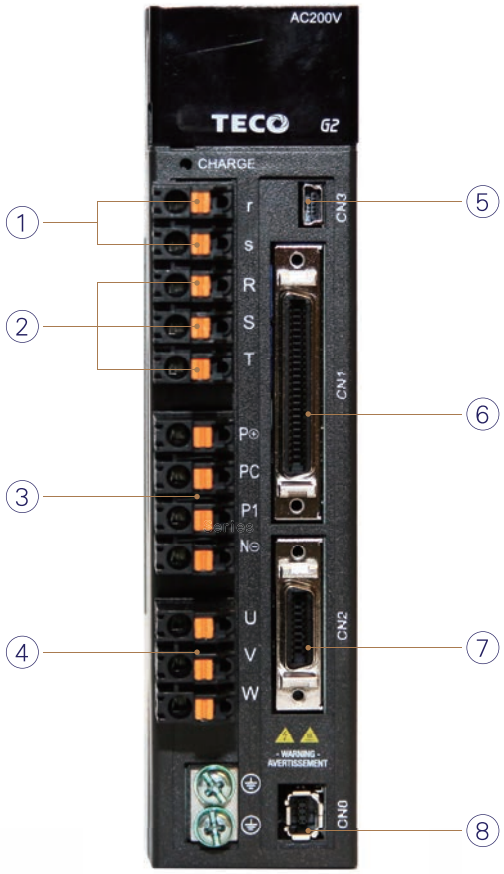
	Key slot	Oil seal
□	No	No
K	Yes	No
O	No	Yes
A	Yes	Yes

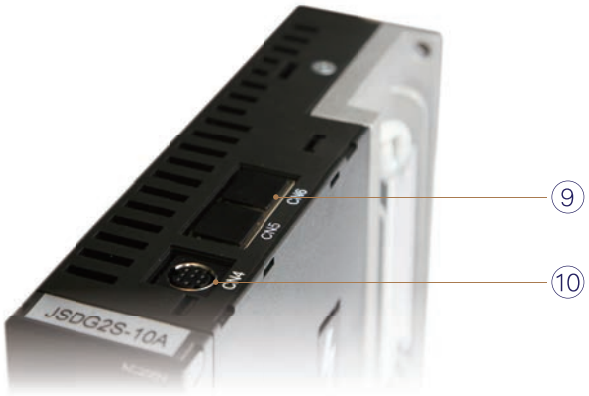
- □ — Mechanical Brake: No
  B: Yes

Motor Rated Power

□	No	No
K	Yes	No
O	No	Yes
A	Yes	Yes

Driver Interface Description





① Circuit Input Power (r , s)

r and s are the control loop for the driver. The input specification is single-phase 200 – 230Vac with a frequency of 50/60 Hz.

② Main Circuit Input Power (R, S, T)

50W-1KW:Single-/Three-phase AC200-230V
1.5KW-15KW: Three-phase AC200-230V

③ External Brake Resistor Connector

Fitted to P-PC ends when use. Keep the PC - P1 end open.

④ Servo Motor Output Power

Connect to servo motor U, V, W connectors to provide power connection.

⑤ Software Operation Interface (CN3)

Connect to a computer using a USB port. Used in conjunction with TECO servo PC software.

⑥ I/O Signal Connector (CN1)

Connect to external signals. It can be used in conjunction with a TECO terminal block module or TECO controller AP PLC.

⑦ I/O Signal Connector (CN1)

Connect the servo motor signal to the driver.

⑧ Fully enclosed loop connection (CN8)

⑨ RJ45 communication interface (CN5/CN6)

Supports RS-485/CANopen/EtherCAT communication for multiple driver link and use.

⑩ Communication Port (CN4)

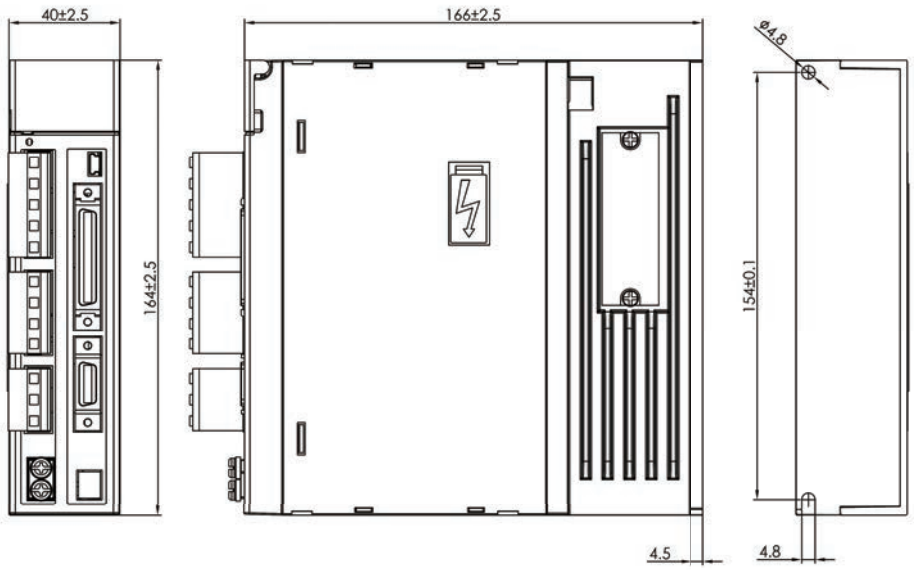
MODBUS communication port.

Servo Driver Specifications

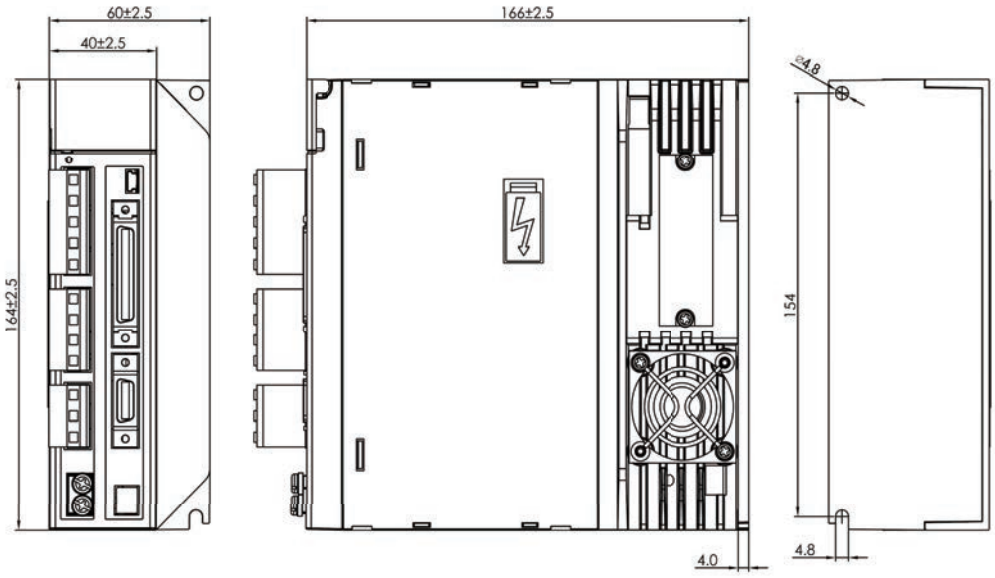
			200V Class									
	Servo Driver Model JSDG2S-□□□□		10A	15A	20A	30A	50A3	75A3	100A3	150A3	200A3	300A3
Basic Specifications	The maximum capacity [KW] of servo motors that this driver is suitable for		0.1	0.4	0.75	1.0	2.0	3.0	4.4	5.5	7.5	15.0
	Continuous Output Current [Arms]		2.1	3.5	4.4	5.6	9.2	14	25.3	33.2	42.1	78
	Maximum Output Current [Arms]		5.7	8.5	11.3	17	28.3	42.4	56.6	84.9	113	170
	Input Power	Main Circuit R, S, T	Single-/Three-phase AC170-253V				Three-phase AC170-253V					
	Cooling Method		Natural Cooling		Fan Cooling							
	Control Method		Three-phase Full-wave Rectification IGBT PWM Control (sinusoidal current drive)									
Features	Feedback [encoder resolution]		23 bits (incremental/absolute type)									
	Display and Operation		Main/control loop power source indication light; five position, seven section indicator; four function operating key									
	Control Mode		Position (external pulse command), position (internal position command), speed, torque and dual mode switching (position/speed, speed/torque, position/torque)									
	Regenerative Brake		Built-in brake transistor and break resistance/external brake resistor									Built-in brake transistor and/external brake resistor
	Protection		Multiple abnormality alarm warning									
	Communication Interface		RS-485 (Modbus protocol) /CANopen (standard) /EtherCAT (optional)									
Position Control Mode	Command Control Method		External command pulse command/32 internal register commands									
	External Command Pulse Input	Type	Positive and Negative Edge Trigger : direction + pulse, CCW + CW pulse, phase difference pulse (phase A + phase B)									
		Waveform	Existing driver (Line Driver + 5V positioning), open collector (+ 5~ + 24V)									
		Maximum Frequency	4Mpps (line driver) /200Kpps (open collector)									
	Electronic Gear Ratio		1/1000 ≦ electric gear ratio ≦ 4000									
	Command Smoothing Method		Smoothing Time Constant : 0-10 seconds									
	Positioning Completion Judgment		0~50000 pulse									
	Feedforward Gain Compensation		0~100%									
	Origin Return Function		Internal Parameter Setting									
Speed Control Mode	Command Control Method		External Analog Command/Three-step Internal Speed Command									
	External Command Pulse Input	Voltage Range	0 - ±10Vdc/0-6000rpm (internal parameter setting)									
		Input Impedance	10KΩ									
	Speed Control Range		1 : 5000									
	Speed Fluctuation		Load Fluctuation : 0-100% ± 0.03% or less (at rated speed)									
			Voltage Fluctuation : ± 10% ± 0.2% or less (at rated speed)									
			Temperature Fluctuation : 0-50°C% ± 0.5% or less (at rated speed)									
	Command Smoothing Method		Linear Time Constant : 0-50 seconds ; S-shape Time Constant : 0-5 seconds ; Smoothing Time Constant : 0-10 seconds									
	Frequency characteristic		1.5KHz (JL=JM)									
	Torque Limit		External Analog Command/Internal Parameter Setting									
	Zero-speed Judgment/Speed Arrival Judgment		0-4500rpm (internal parameter setting)									
Torque Control Mode	Command Control Method		External Analog Command/Internal Torque Command									
	External Analog Command	Voltage Range	0~±10Vdc/0~300%									
		Input Impedance	10KΩ									
	Command Smoothing Method		Linear Time Constant : 0-50 seconds ; Smoothing Time Constant : 0-10 seconds									
	Speed Limit		External Analog Command/Internal Parameter Setting									
	Torque Arrival Judgment		0 - 300% (internal parameter setting)									
Input/ Output Signal	Position Output	Position Output	Phase A, B, Z line drive output/phase Z open collector output									
		Division Ratio	Pulse output 1 - encoder pulses per revolution (Any position can be set using internal parameters)									
	Digital input [NPN / PNP]	12 points that can be planned at any time	Servo start, error alarm clear, P/PI switching, CCW/CW direction drive prohibition, external torque limit, pulse error removal, servo lock, emergency stop, internal speed command selection, control mode switching, position command prohibition, gain switching, electronic gear ratio numerator selection, internal position command trigger, internal position command pause, return to origin, external reference origin, internal position command selection									
	Digital output [Photocoupler]	Four point fixed output	The fixed output contact function varies under different circumstances as described below. [No alarm, no-magazine mode] : limited torque/in P action/drive prohibited/Base Block [No alarm, magazine mode] : tool handle position 1/tool handle position 2/tool handle position 3/tool handle position 4 [When alarm occurs] : abnormality alarm code 0/abnormality alarm code 1/abnormality alarm code 2/abnormality alarm code 3									
		Four points can be planned at any time	Servo preparation complete, servo abnormal, zero-speed signal, machine brake signal, speed achieved signal, positioning completion signal, origin return completion signal, torque arrival output completion signal, magazine mode tool position display, motor overload signal, encoder battery error signal, positive and negative limit signals, virtual contact digital output, etc.									
	Analog monitor output	Two points can be planned at any time	Speed feedback detection, torque/speed command/pulse input command/position offset, electrical angle, main circuit (Vdc Bus) voltage, etc.									
Environment	Location		Indoors (avoid direct sunlight), Non-corrosive Mist (avoid fumes, flammable gases and dust)									
	Altitude		Up to 1000M									
	Temperature		Operating Temperature : 0 - 50°C ; Storage Temperature : -20 - +65°C									
	Humidity		Up to 90%RH (non-condensing)									
	Vibration		10~57Hz : 20m/s2 ; 57Hz~150Hz : 2G									
Safety regulation	CE Declaration		In compliance with EN61800-3 and EN61800-5-1									
	UL Certification		UL508C									

Servo Driver Dimensions

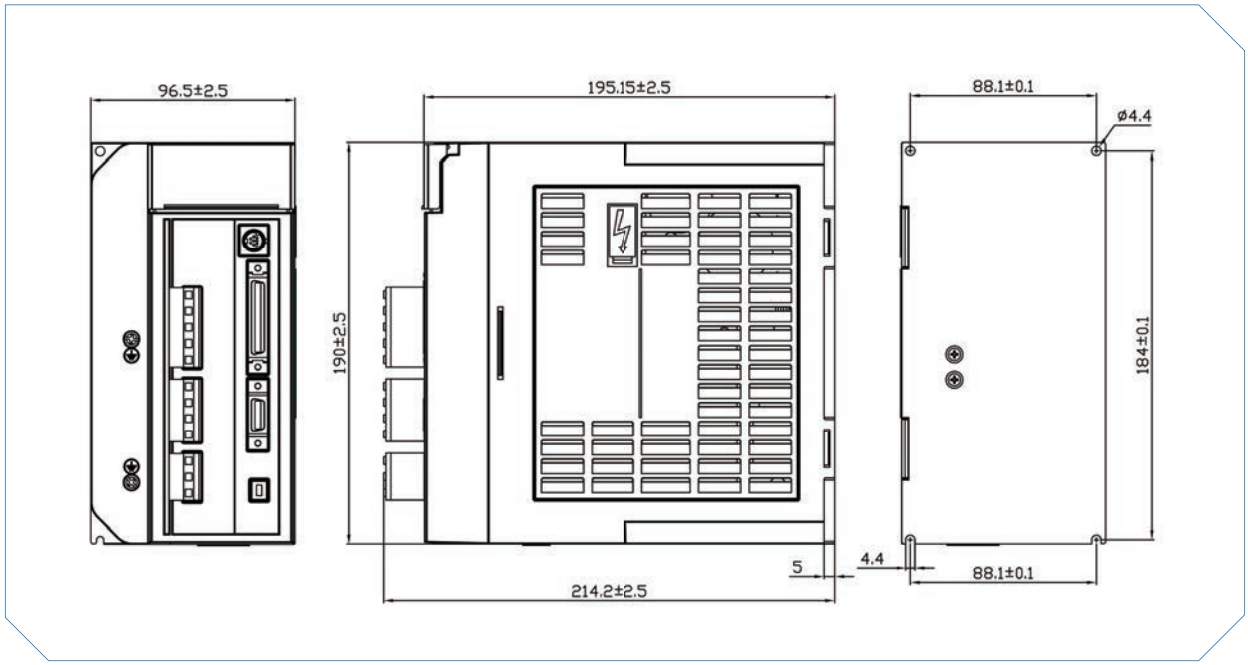
JSDG2S-10A/JSDG2S-15A | Weight 1.36Kg



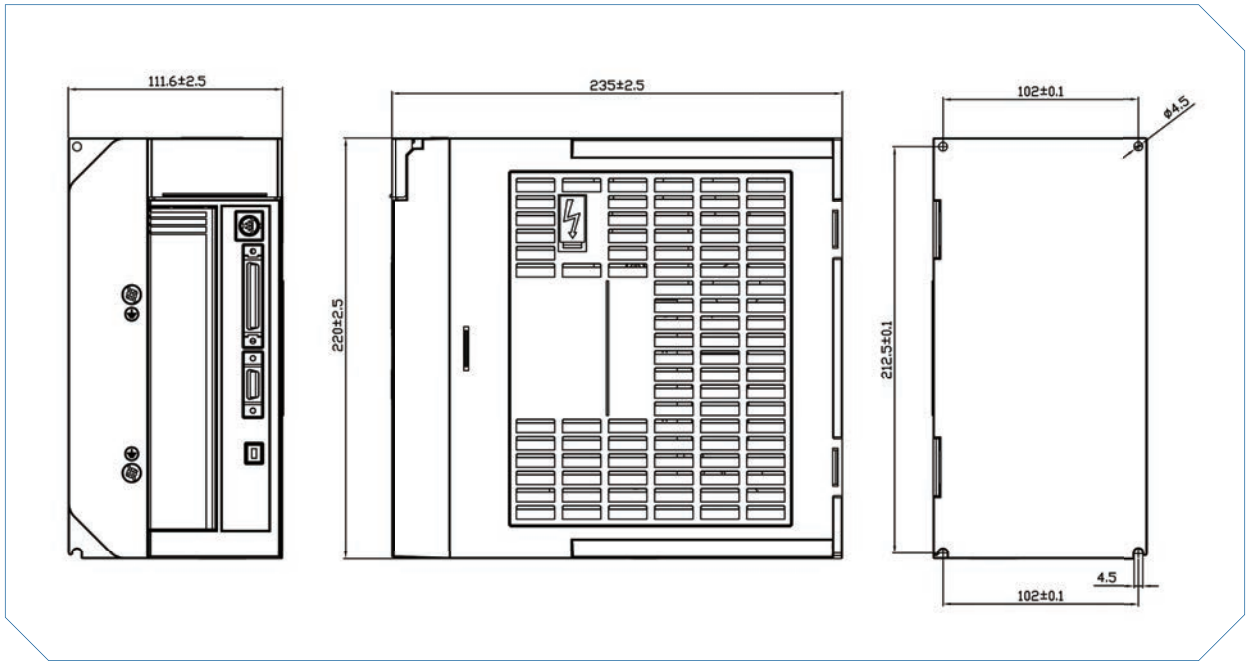
JSDG2S-20A/JSDG2S-30A | Weight 1.54Kg



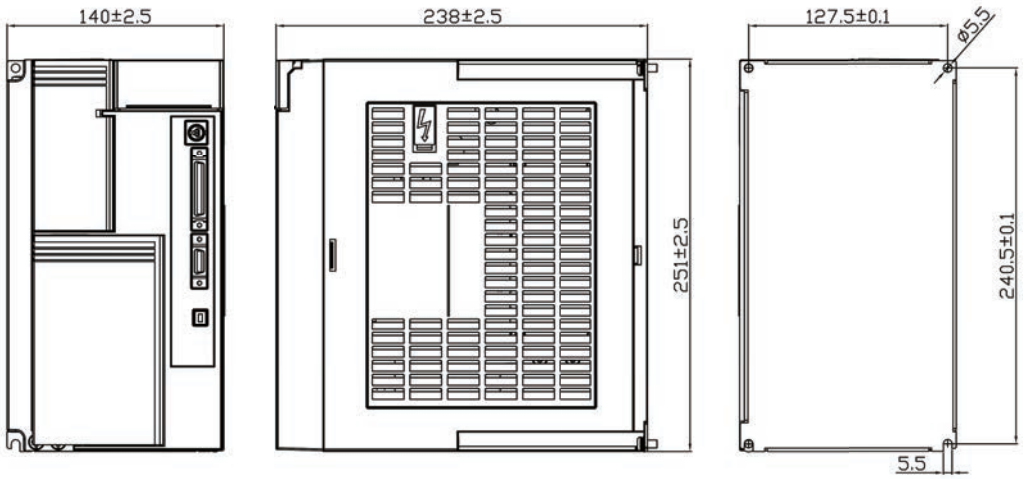
JSDG2S-50A3/JSDG2S-75A3 | Weight 3.3Kg



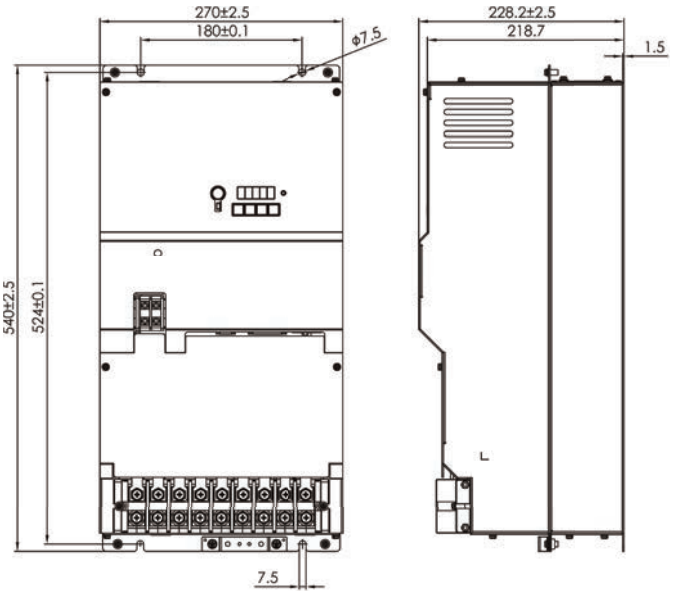
JSDG2S-100A3/JSDG2S-150A3 | Weight 6Kg



JSDG2S-200A3 | Weight 8Kg



JSDG2S-300A3 | Weight 21Kg

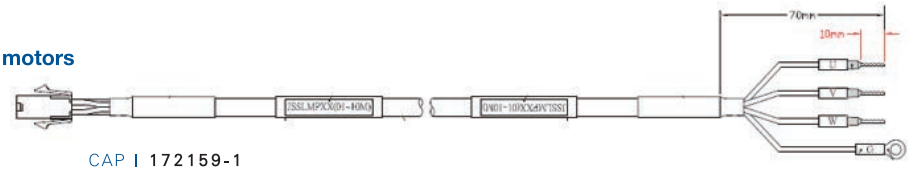


Moter Power Trunk

Motor Power Trunk

Matched with UC/BC/LC series motors

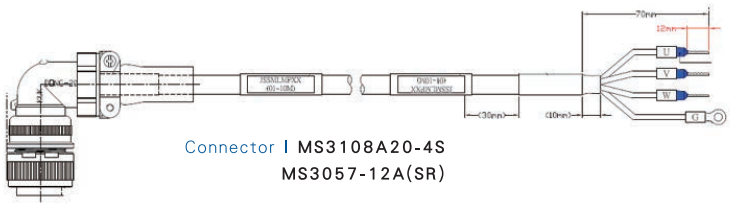
No.	Length (m)
JSSLMP001	1
JSSLMP003	3
JSSLMP005	5
JSSLMP010	10



CAP | 172159-1
SCOKET | 170362-1

Matched with MB/BH09/BH13/BH18 series motors

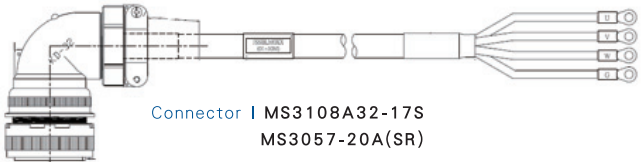
No.	Length (m)
JSSMLMP001	1
JSSMLMP003	3
JSSMLMP005	5
JSSMLMP010	10



Connector | MS3108A20-4S
MS3057-12A(SR)

Matched with IH44/IH55/IH75/BH44/BH55 series motors

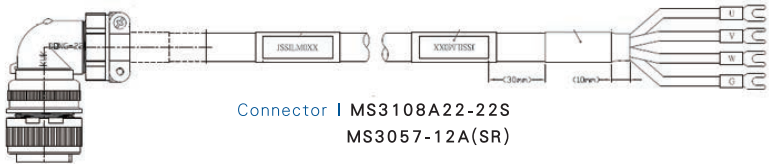
No.	Length (m)
JSSBLM001	1
JSSBLM001	3
JSSBLM001	5
JSSBLM001	10



Connector | MS3108A32-17S
MS3057-20A(SR)

Matched with BH18 - 18/BH29 series motors

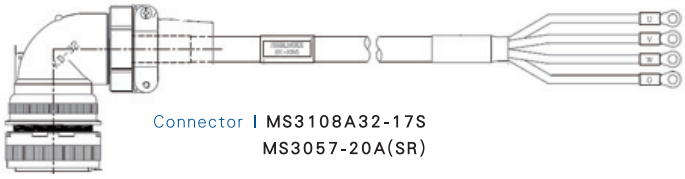
No.	Length (m)
JSSILM001	1
JSSILM001	3
JSSILM001	5
JSSILM001	10



Connector | MS3108A22-22S
MS3057-12A(SR)

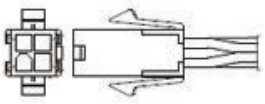
Matched with IH110/IH150/BH75 series motors

No.	Length (m)
JSSFLM001	1
JSSFLM001	3
JSSFLM001	5
JSSFLM001	10

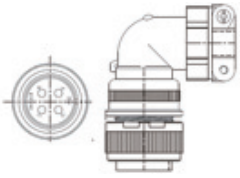


Connector | MS3108A32-17S
MS3057-20A(SR)

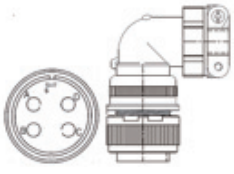
Encoder Connector



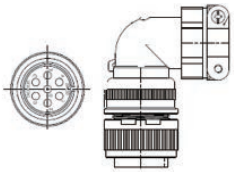
JSSCNM04
CAP SCOKET
172159-1 170362-1



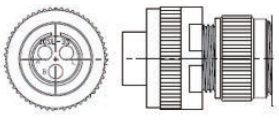
JSSCNML04
Connector
MS3108A20-4S MS3057-12A(SR)



JSSCNBL04
Connector
MS3108A32-17S MS3057-20A(SR)



JSSCNML07 (with brake contact)
Connector
MS310820-15S MS3057-12A(SR)

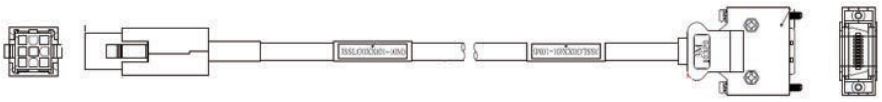


JSSCNBL03 (brake contact)
Connector
MS3106A10SL-3S MS3057-4A(SR)

Encoder Trunk

Matched with UC/BC/LC series motors

No.	Length (m)
JSSLG001	1
JSSLG003	3
JSSLG005	5
JSSLG010	10

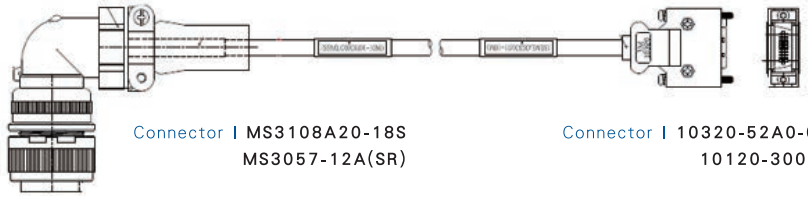


Connector | 172161-1
Terminal | 170361-1

Connector | 10320-52A0-008
10120-3000PE

Matched with MB/IH/BH series motors

No.	Length (m)
JSSMLG001	1
JSSMLG003	3
JSSMLG005	5
JSSMLG010	10



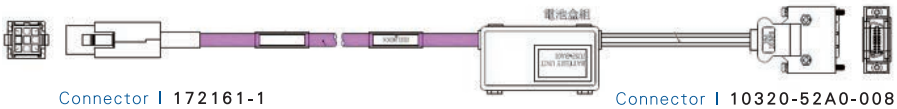
Connector | MS3108A20-18S
MS3057-12A(SR)

Connector | 10320-52A0-008
10120-3000PE

Encoder Trunk (with absolute encoder)

Matched with UC/BC/LC series motors

No.	Length (m)
JSSLB001	1
JSSLB003	3
JSSLB005	5
JSSLB010	10

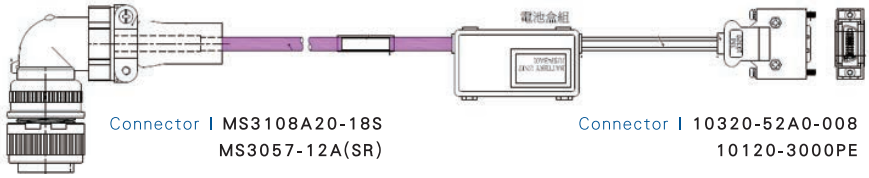


Connector | 172161-1
Terminal | 170361-1

Connector | 10320-52A0-008
10120-3000PE

Matched with MB/IH/BH series motors

No.	Length (m)
JSSMLB001	1
JSSMLB003	3
JSSMLB005	5
JSSMLB010	10

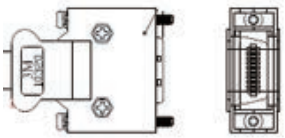


Connector | MS3108A20-18S
MS3057-12A(SR)

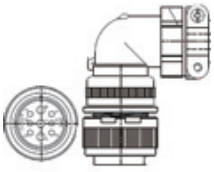
Connector | 10320-52A0-008
10120-3000PE

Encoder Connector

JSSCNP09
Connector 172161-1
Terminal 170361-1



JSSCN20P
Connector
MS3108A20-18S MS3057-12A(SR)



JSSCNPL09
Connector
10320-52A0-008 10120-3000PE

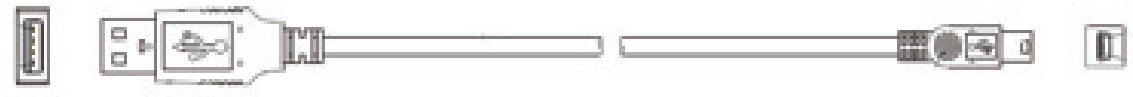
CANopen/EtherCAT communication wire

No.	Length (m)	No.	Length (m)
JSSRTR0001	0.1	JSSRTR0020	2
JSSRTR0003	0.3	JSSRTR0030	3
JSSRTR0005	0.5	JSSRTR0040	4
JSSRTR0010	1	JSSRTR0050	5

Connector | RJ-45

Computer Communication Cable

No.	Length (m)
JSSDUC001	1
JSSDUC002	2

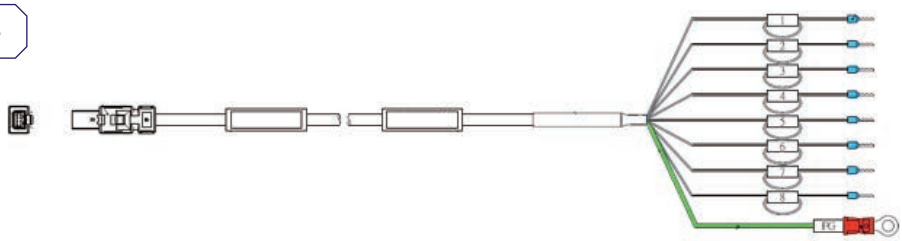


Connector I USB

Connector I Mini-USB

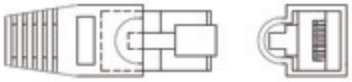
Fully closed loop wire

No.	Length (m)
JSSFCL001	1
JSSFCL003	3
JSSFCL005	5
JSSFCL010	10



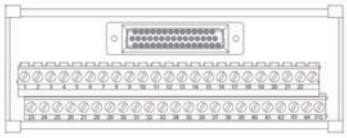
Terminal Resistor (RS485/CANopen)

No.
JSSTR01



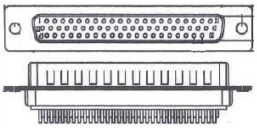
Terminal Block Module

No.	Length (m)
JSSCN50P	--
JSSTBC0P5	0.5
JSSTBC001	1
JSSTBC002	2



CN1 Connector

No.
JSSCN50P



Commonly Used Servo System Combinations

Motor Series	Capacity(W)	Motor Model	Matched with Driver	CN1 Connector	Incremental Encoder Cable	Absolute Encoder Cable	3m Power Cord
PUC Series Super low inertia Small Capacity 3000rpm	50W	PUCP5A3K	JSDG2S-10A	JSSCN50P	JSSLG003	JSSLB003	JSSLMP003
	100W	PUC01A3K	JSDG2S-10A	JSSCN50P	JSSLG003	JSSLB003	JSSLMP003
	200W	PUC02A3K	JSDG2S-15A	JSSCN50P	JSSLG003	JSSLB003	JSSLMP003
	400W	PUC04A3K	JSDG2S-15A	JSSCN50P	JSSLG003	JSSLB003	JSSLMP003
	750W	PUC08A3K	JSDG2S-20A	JSSCN50P	JSSLG003	JSSLB003	JSSLMP003
PBC Series High Inertia Small Capacity 3000rpm	100W	PBC01A3K	JSDG2S-10A	JSSCN50P	JSSLG003	JSSLB003	JSSLMP003
	200W	PBC02A3K	JSDG2S-10A	JSSCN50P	JSSLG003	JSSLB003	JSSLMP003
	400W	PBC04A3K	JSDG2S-15A	JSSCN50P	JSSLG003	JSSLB003	JSSLMP003
	750W	PBC08A3K	JSDG2S-20A	JSSCN50P	JSSLG003	JSSLB003	JSSLMP003
PLC Series Low Inertia Small Capacity 3000rpm	300W	PLC03A3K	JSDG2S-15A	JSSCN50P	JSSLG003	JSSLB003	JSSLMP003
	750W	PLC08A3K	JSDG2S-20A	JSSCN50P	JSSLG003	JSSLB003	JSSLMP003

Note: Motors with brakes below 750W are used in conjunction with the same power cords. For detailed wiring, please refer to the manual.

Motor Series	Capacity(KW)	Motor Model	Matched with Driver	CN1 Connector	Incremental Encoder Cable	Absolute Encoder Cable	3m Power Cord	Power Cord (including brake)
PMB Series Medium Inertia Medium Capacity 2000rpm	1KW	PMB10A3K	JSDG2S-30A	JSSCN50P	JSSMLG003	JSSMLB003	JSSMLMP003	JSSCMLMBP003
	1.5KW	PMB15A3K	JSDG2S-30A/50A3	JSSCN50P	JSSMLG003	JSSMLB003	JSSMLMP003	JSSCMLMBP003
	2KW	PMB20A3K	JSDG2S-50A3	JSSCN50P	JSSMLG003	JSSMLB003	JSSMLMP003	JSSCMLMBP003
	3KW	PMB30A3K	JSDG2S-75A3	JSSCN50P	JSSMLG003	JSSMLB003	JSSMLMP003	JSSCMLMBP003
PBH Series High Inertia Medium Capacity 1500rpm	0.85KW	BH09	JSDG2S-30A/50A3	JSSCN50P	JSSMLG003	JSSMLB003	JSSMLMP003	JSSCMLMBP003
	1.3KW	BH13	JSDG2S-50A3/75A3	JSSCN50P	JSSMLG003	JSSMLB003	JSSMLMP003	JSSCMLMBP003
	1.8KW	BH18	JSDG2S-75A3	JSSCN50P	JSSMLG003	JSSMLB003	JSSMLMP003	JSSCMLMBP003
		BH18_18	JSDG2S-75A3/100A3	JSSCN50P	JSSMLG003	JSSMLB003	JSSILM003	JSSCNBL03
	2.9KW	PBH29	JSDG2S-100A3	JSSCN50P	JSSMLG003	JSSMLB003	JSSILM003	JSSCNBL03
	4.4KW	PBH44	JSDG2S-150A3	JSSCN50P	JSSMLG003	JSSMLB003	JSSBLM003	JSSCNBL03
	5.5KW	PBH55	JSDG2S-150A3/200A3	JSSCN50P	JSSMLG003	JSSMLB003	JSSBLM003	JSSCNBL03
	7.5KW	PBH75	JSDG2S-200A3/300A3	JSSCN50P	JSSMLG003	JSSMLB003	JSSFLM003	JSSCNBL03
PIH Series Medium Inertia Medium Capacity 1500rpm	3KW	PIH30A3K	JSDG2S-75A3	JSSCN50P	JSSMLG003	JSSMLB003	JSSBLM003	JSSCNBL03
	4.4KW	PIH44	JSDG2S-100A3	JSSCN50P	JSSMLG003	JSSMLB003	JSSBLM003	JSSCNBL03
	5.5KW	PIH55	JSDG2S-150A3	JSSCN50P	JSSMLG003	JSSMLB003	JSSBLM003	JSSCNBL03
	7.5KW	PIH75	JSDG2S-200A3/300A3	JSSCN50P	JSSMLG003	JSSMLB003	JSSBLM003	JSSCNBL03
	11KW	PIH110	JSDG2S-200A3/300A3	JSSCN50P	JSSMLG003	JSSMLB003	JSSFLM003	JSSCNBL03
	15KW	PIH150	JSDG2S-300A3	JSSCN50P	JSSMLG003	JSSMLB003	JSSFLM003	JSSCNBL03

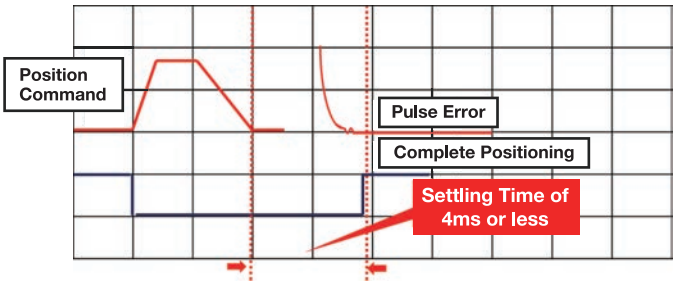
Note: If brake connector is purchased for the RMB/PBH series motor, the drive wire does not need to be purchased.

JSDE2 Features

High-speed Responsiveness

Responsiveness
1.2 KHz

- Significantly Shorter Settling Time.
- Quick Response, High Responsiveness and Accurate Positioning.



Accurate Control and Positioning

Standard Configuration
23bit

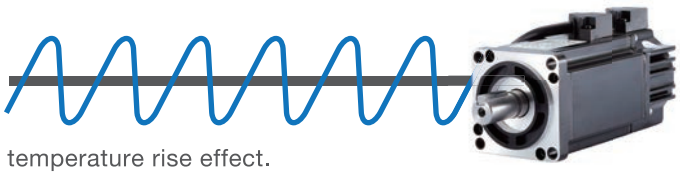
- Equipped with a standard high resolution 8,388,608 pulse/rev encoder.
- Incremental/absolute types for different applications.
- More stable low-speed operation and more precise positioning.
- Japanese encoder offers quality guarantee.

Motor Maximum Speed

Maximum Speed
6,000 rpm

- Increased from 4,500rpm to 6,000rpm.
- Improve productivity to meet application requirements.

Low Cogging Torque



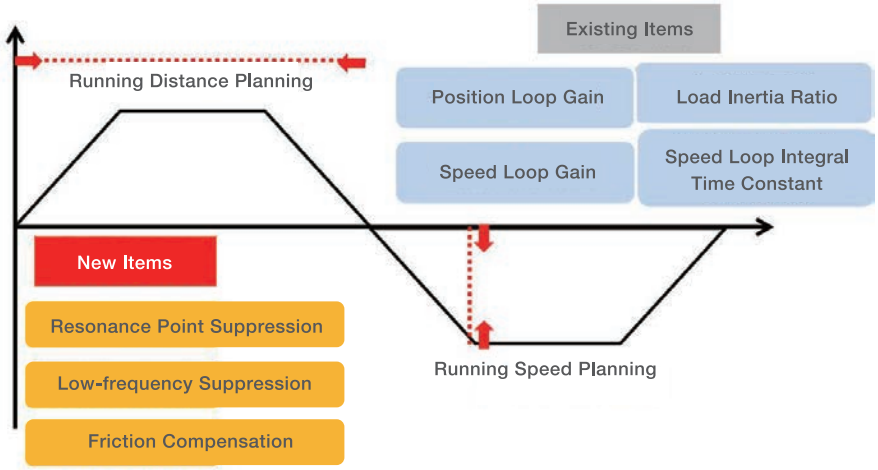
- Improved motor efficiency and reduced temperature rise effect.
- Low cogging torque provides stable low-speed operation.

Motor Miniaturization

- The new motor series is 7% smaller than previous models. (take 400W for example)

Auto-Tuning

- The new auto-tuning algorithm optimizes the equipment.
- The path selection for tuning can be automatically planned according to machine status.
- Both panel buttons and PC software support auto-tuning.



High- and Low-Frequency Resonance Suppression

- Solved the resonance frequency of the machine mechanism so that it runs smoothly.
- A total of eight high- and low-frequency resonance suppression points for multi-point setting according to machine requirements.

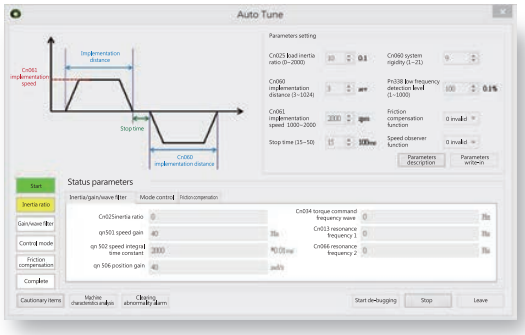
The high frequency setting is 0-2000Hz with a total of five sets.
The low frequency setting is 0-200Hz with a total of three sets.

PC-Software

◆ **The customers can easily set up, adjust or monitor the machine through the software interface.**

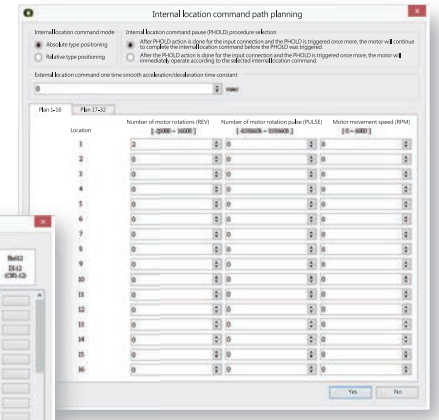
Adjustment

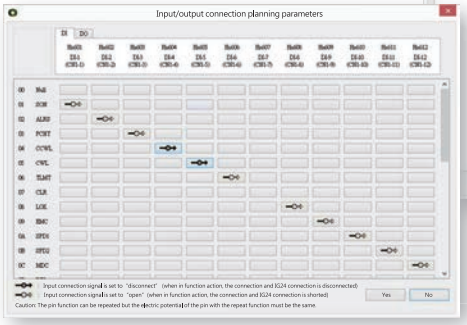
The customers can configure tuning-related parameters through the PC software.
A single standalone interface with tuning status display allows customers to see everything at a glance.



Planning

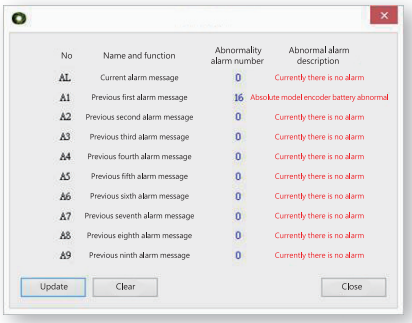
I/O function planning and internal position command planning are provided. The customers can use this interface to quickly complete the required function planning.

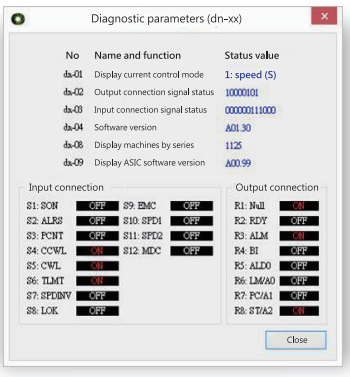


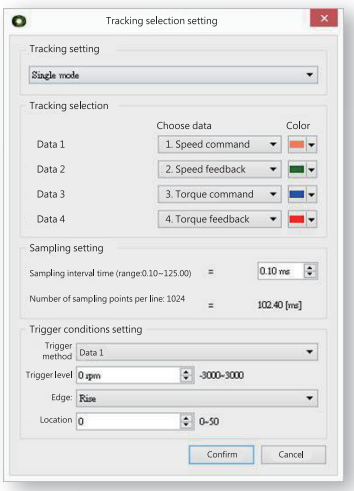


Monitoring

The 4-channel oscilloscope function allows users to select the content to be monitored according to their needs, as well as its parameter setting status and alarm parameter processing.







Model Description

Servo Driver

JS D E2 - 15 A

- **JS** — TECO AC Servo Product Number
- **D** — Driver
- **E2** — Series：E2 Series
- **15** — Model (power) ：

200V Model (A)			
10	100W	30	1KW
15	400W	50	2KW
20	750W	75	3KW

- **A** — Input Voltage：
  A：AC200V Single-/Three-phase Common
  A3：AC200V Three-phase

Servo Motor

JSMA-PUC04A3□□

- **JS** — TECO AC Servo Product Number
- **MA** — Servo Motor / A Series
- **P** — IP67 Rating
- **U** — Motor Inertia
  S/U：Ultra Low Inertia
  L：Low Inertia
  M/I：Medium Inertia
  B/H：High Inertia
- **C** — Motor Speed
  A：1000rpm
  H：1500rpm
  B：2000rpm
  C：3000rpm
- **04** — Motor Rated Power

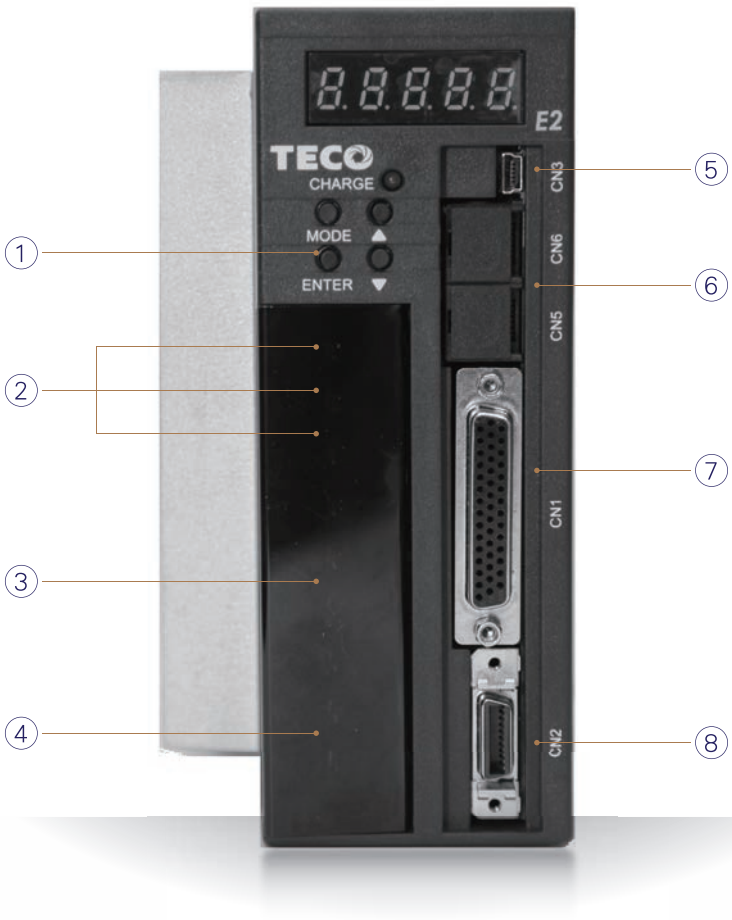
P5	50W	10	1KW	44	4.4KW
01	100W	13	1.3KW	55	5.5KW
03	300W	15	1.5KW	75	7.5KW
04	400W	18	1.8KW	110	11KW
05	550W	20	2.0KW	150	15KW
08	750W	29	2.9KW		
09	850W	30	3.0KW		

- **A** — Input Voltage:
  A：AC200V
  B：AC400V
- **3** — Encoder Specifications
  7：17bit
  3：23bit
  A：17bit*
  W：23bit*
  *ABS
- **□** — Keyway / Oil Seal

□	No	No
K	Yes	No
O	No	Yes
A	Yes	Yes

- **□** — Mechanical Brake
  □：No
  B：Yes

Driver Interface Description



① Keypad Control Buttons

Used for parameter function setting and adjustment. MODE is used for mode selection, which is adjusted with the up and down arrow keys; ENTER is used for confirmation.

② Main Circuit Input Power (R , S , T)

50W-1KW:Single-/Three-phase AC200-230V.
1.5KW-3KW: Three-phase AC200-230V.

③ External Brake Resistor Connector

Connect to both ends of P-PC.

④ Servo Motor Output Power

Connect to servo motor U, V, W connectors to provide power connection.

⑤ Software Operation Interface (CN3)

Connect to a computer using a USB port. Used in conjunction with TECO servo PC software.

⑥ Communication Port (CN5/6)

MODBUS communication port.

⑦ I/O Signal Connector (CN1)

Connect to external signals. It can be used in conjunction with a TECO terminal block module or TECO controller AP PLC.

⑧ Encoder Connector (CN2)

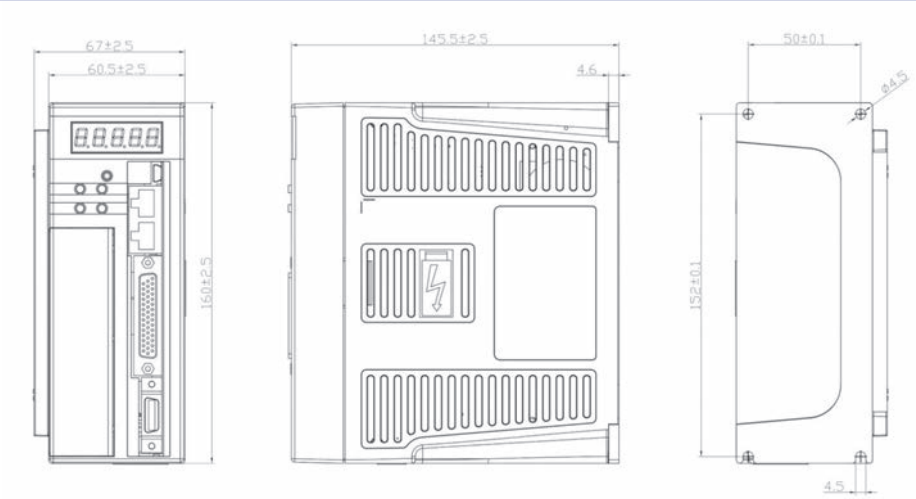
Connect the servo motor signal to the driver.

Servo Driver Specifications

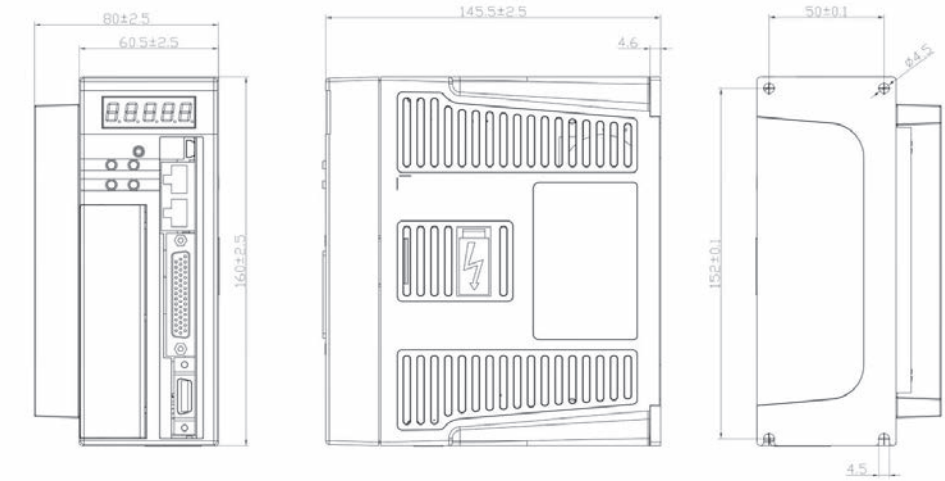
Servo Driver Model JSDE2-□□□□			200V Class					
			10A	15A	20A	30A	50A3	75A3
Basic Specifications	Servo Motor Capacity [KW]		0.1	0.4	0.75	1.0	2.0	3.0
	Continuous Output Current [Arms]		0.94	2.5	4.4	5.16	9.5	15.0
	Maximum Output Current [Arms]		2.82	7.5	13.2	15.5	28.5	42.0
	Main Circuit R, S, T		Single-phase or Three-phase AC 200 ~ 230V, -15~+10%				Three-phase AC 200 ~ 230V, -15~+10%	
	Cooling Method		Natural Cooling		Fan Cooling			
	Control Method		Three-phase Full-wave Rectification IGBT PWM Control (sinusoidal current drive)					
	Encoder Resolution		Communication Encoder：17bit (INC / ABS) / 23bit (INC / ABS)					
Features	Display and Operation		CHARGE Indicator；five-digit seven-segment display；four function keys					
	Control Mode		Position (external pulse command), position (internal position command), speed, torque and dual mode switching (position / speed, speed / torque, position / torque), magazine mode					
	Regenerative Brake		Built-in brake transistor / external brake resistor					
	Protection		Various error alarms					
	Communication Interface		USB / RS-485					
Position Control Mode	Command Control Method		External command pulse command / 32 internal register commands					
	External Command Pulse Input	Type	Positive and Negative Edge Trigger: direction + pulse, CCW pulse + CW pulse, phase difference pulse (phase A + phase B)					
		Waveform	Line driver (+5V level), open collector (+5 ~ +24V level)					
		Maximum Frequency	4Mpps (line driver) / 200Kpps (open collector)					
	Electronic Gear Ratio		1 / 1000 ≦ A / B ≦ 4000 (A = 1 ~ 8388608；B = 1 ~ 8388608)					
	Command Smoothing Method		4Mpps (line driver) / 200Kpps (open collector)					
	Positioning Completion Judgment		0 ~ 41943040 Pulse					
	Feedforward Gain Compensation		0 ~ 100 %					
	Origin Return Function		Internal Parameter Setting					
Speed Control Mode	Origin Return Function		External Analog Command / Three-step Internal Speed Command					
	External Analog Command	Voltage Range	0 ~ ±10Vdc					
		Input Impedance	10KΩ					
	Speed Control Range		1：5000					
	Speed Fluctuation		Load Fluctuation：0-100% ± 0.03% or less (at rated speed)					
			Voltage Fluctuation：± 10% fluctuation ± 0.2% or less (at rated speed)					
			Temperature Fluctuation：0-50°C ± 0.5% or less (at rated speed)					
	Command Smoothing Method		Linear Time Constant：0-50 seconds；S-shape Time Constant：0-5 seconds；Smoothing Time Constant：0-10 seconds					
	Torque Limit		External Analog Command / Internal Parameter Setting					
	Zero-speed Judgment / Speed Arrival Judgment		0-4500rpm (internal parameter setting)					
Torque Control Mode	Command Control Method		External Analog Command / Internal Torque Command					
	External Analog Command	Voltage Range	0 ~ ±10Vdc					
		Input Impedance	10KΩ					
	Command Smoothing Method		Linear Time Constant：0-50 seconds；Smoothing Time Constant：0-10 seconds					
	Speed Limit		External Analog Command / Internal Parameter Setting					
	Torque Arrival Judgment		0-300% (internal parameter setting)					
Input/Output Signal	Position Output	Output Type	Phase A, B, Z line drive output/phase Z open collector output					
		Division Ratio	Pulse output 1-encoder pulses per revolution (internal parameter arbitrary value setting)					
	Digital Input [NPN/PNP]	8 points Customizable	Servo start, error alarm clear, P/PI switching, CCW / CW direction drive prohibition, external torque limit, pulse error removal, servo lock, emergency stop, internal speed command selection, control mode switching, position command prohibition, gain switching, electronic gear ratio numerator selection, internal position command trigger, internal position command pause, return to origin, external reference origin, internal position command selection, virtual contact digit input, etc.					
	Digital Output [NPN/PNP]	2 points Fixed Output	The fixed output contact function varies under different circumstances as described below. 【No alarm】: Torque Limit / P Active 【Alarm occurred】: Error Alarm Code 0 / Error Alarm Code 1					
		4 points Customizable	Servo ready, servo error, zero speed signal, mechanical brake signal, speed arrival signal, positioning completion signal, origin return completion signal, torque arrival output completion signal, magazine mode tool position display, motor overload signal, encoder battery error signal, positive and negative limit signals, virtual contact digital output, etc.					
Environment	Location		Indoors (avoid direct sunlight)					
			Non-corrosive Mist (avoid fumes, flammable gases and dust)					
	Altitude		Up to 1000M					
	Temperature		Operating Temperature：0 - 50°C; Storage Temperature：-20 - +85°C					
	Humidity		Up to 95%RH (non-condensing)					
	Vibration		10 ~ 57Hz：20m / s2；57 ~ 150Hz：2G					
Safety Certification	CE Declaration		In compliance with EN61800-3 and EN61800-5-1					
	UL Certification		UL508C					

Servo Driver Dimensions

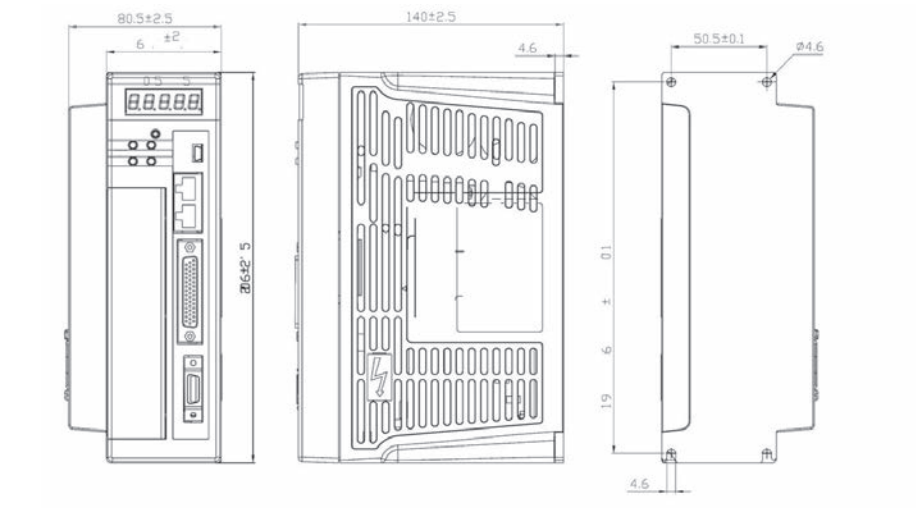
JSDE2-10A、JSDE2-15A | Weight 1.45Kg



JSDE2-20A、JSDE2-30A | Weight 1.55Kg



JSDE2-50A3、JSDE2-75A3 | Weight 2.52Kg



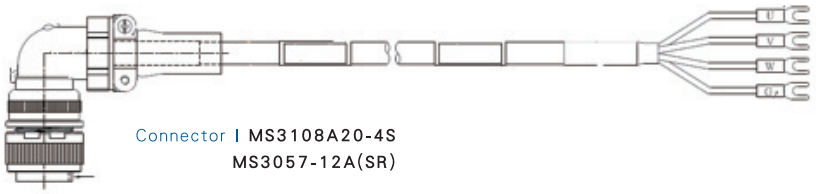
Motor Power Trunk

Motor Power Trunk

No.	Length (m)
JSSLM001	1
JSSLM003	3
JSSLM005	5
JSSLM010	10

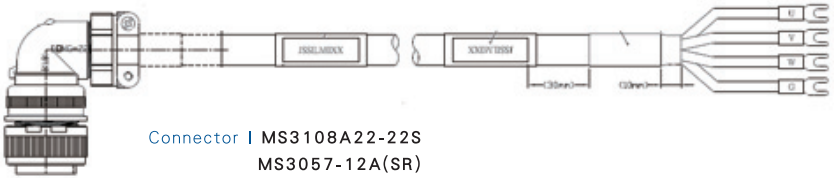
CAP | 172159-1
SCOKET | 170362-1

No.	Length (m)
JSSMLM001	1
JSSMLM003	3
JSSMLM005	5
JSSMLM010	10



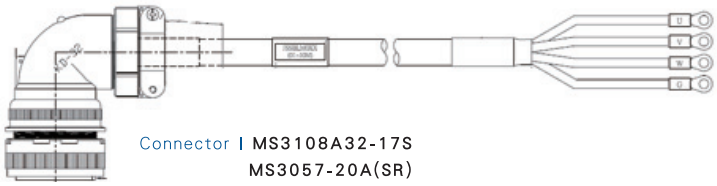
Connector | MS3108A20-4S
MS3057-12A(SR)

No.	Length (m)
JSSILM001	1
JSSILM003	3
JSSILM005	5
JSSILM0010	10



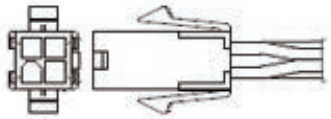
Connector | MS3108A22-22S
MS3057-12A(SR)

No.	Length (m)
JSSBLM001	1
JSSBLM003	3
JSSBLM005	5
JSSBLM0010	10

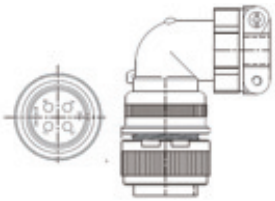


Connector | MS3108A32-17S
MS3057-20A(SR)

Motor Power Connector



JSSCNM04
CAP SCOKET
172159-1 170362-1



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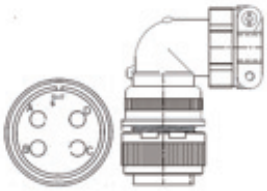
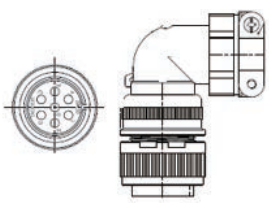
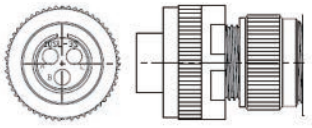
MS3108A20-4S MS3057-12A(SR)



JSSCNBL04
Connector
MS3108A32-17S MS3057-20A(SR)



JSSCNML07 (with brake contact)
Connector
MS310820-15S MS3057-12A(SR)



JSSCNBL03 (brake contact)
Connector
MS3106A10SL-3S MS3057-4A(SR)

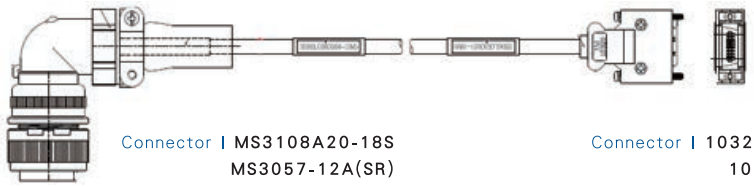
Encoder Trunk

No.	Length (m)
JSSLG001	1
JSSLG003	3
JSSLG005	5
JSSLG010	10

Connector | 172161-1
Terminal | 170361-1

Connector | 10320-52A0-008
10120-3000PE

No.	Length (m)
JSSMLG001	1
JSSMLG003	3
JSSMLG005	5
JSSMLG010	10



Connector | MS3108A20-18S
MS3057-12A(SR)

Connector | 10320-52A0-008
10120-3000PE

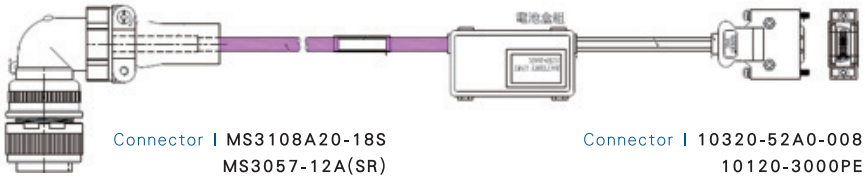
Encoder Trunk (with absolute encoder)

No.	Length (m)
JSSLB001	1
JSSLB003	3
JSSLB005	5
JSSLB010	10

Connector | 172161-1
Terminal | 170361-1

Connector | 10320-52A0-008
10120-3000PE

No.	Length (m)
JSSMLB001	1
JSSMLB003	3
JSSMLB005	5
JSSMLB010	10

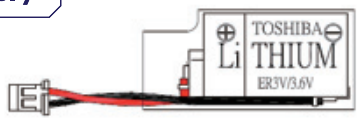


Connector | MS3108A20-18S
MS3057-12A(SR)

Connector | 10320-52A0-008
10120-3000PE

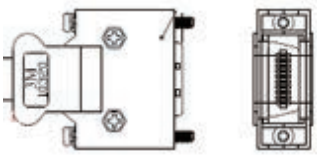
Encoder Battery

No.
JSSBATS

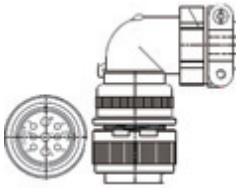


Encoder Connector

JSSCNP09
Connector 172161-1
Terminal 170361-1



JSSCN20P
Connector
10320-52A0-008 10120-3000PE



JSSCNPL09
Connector
MS3108A20-18S MS3057-12A(SR)

Computer Communication Cable

No.	Length (m)
JSSDUC001	1
JSSDUC002	2

Connector I USB　　Connector I Mini-USB

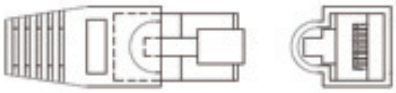
Communication Cable

No.	Length (m)	No.	Length (m)
JSSRTR0001	0.1	JSSRTR0020	2
JSSRTR0003	0.3	JSSRTR0030	3
JSSRTR0005	0.5	JSSRTR0040	4
JSSRTR0010	1	JSSRTR0050	5

Connector I RJ-45

Terminal Resistor

No.
JSSTR01

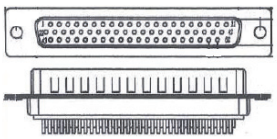


Terminal Block Module

No.	Length (m)
JSSE2TB44P	--
JSSE2TBC0P5	0.5
JSSE2TBC001	1
JSSE2TBC002	2

CN1 Connector

No.
JSSECN44P

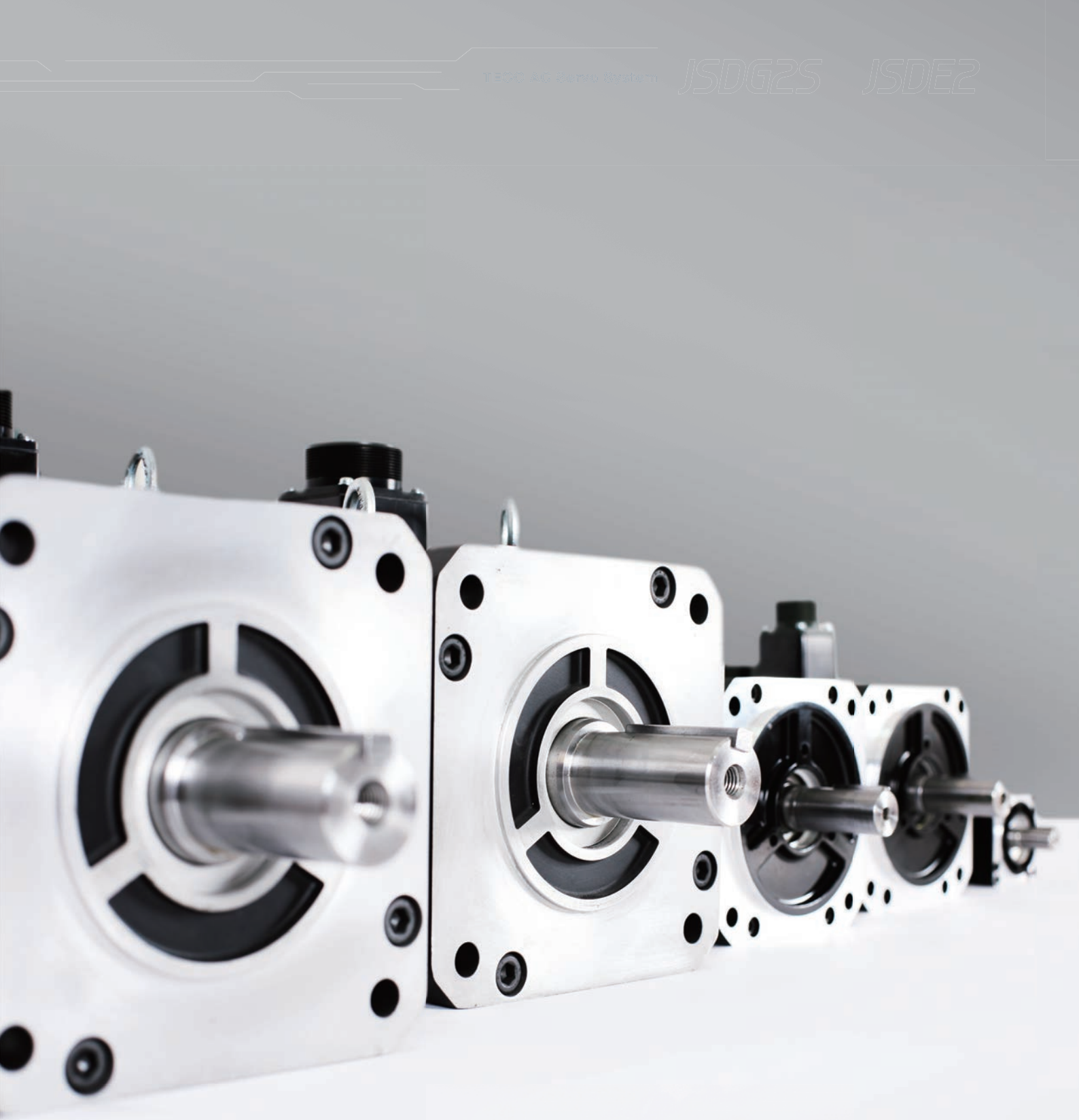


Commonly Used Servo System Combinations

Motor Series	Capacity (W)	Motor Model	Driver	CN1 Connector	Incremental Encoder Cable	Absolute Encoder Cable	3m Power Cord
PUC Series Ultra-low Inertia Small Capacity 3000rpm	50W	PUCP5A3K	JSDE2-10A	JSSECN44P	JSSLG003	JSSLB003	JSSLM003
	100W	PUC01A3K	JSDE2-10A	JSSECN44P	JSSLG003	JSSLB003	JSSLM003
	200W	PUC02A3K	JSDE2-15A	JSSECN44P	JSSLG003	JSSLB003	JSSLM003
	400W	PUC04A3K	JSDE2-15A	JSSECN44P	JSSLG003	JSSLB003	JSSLM003
	750W	PUC08A3K	JSDE2-20A	JSSECN44P	JSSLG003	JSSLB003	JSSLM003
PBC Series High Inertia Small Capacity 3000rpm	100W	PBC01A3K	JSDE2-10A	JSSECN44P	JSSLG003	JSSLB003	JSSLM003
	200W	PBC02A3K	JSDE2-15A	JSSECN44P	JSSLG003	JSSLB003	JSSLM003
	400W	PBC04A3K	JSDE2-15A	JSSECN44P	JSSLG003	JSSLB003	JSSLM003
	750W	PBC08A3K	JSDE2-20A	JSSECN44P	JSSLG003	JSSLB003	JSSLM003
PLC Series Low Inertia Small Capacity 3000rpm	300W	PLC03A3K	JSDE2-15A	JSSECN44P	JSSLG003	JSSLB003	JSSLM003
	750W	PLC08A3K	JSDE2-20A	JSSECN44P	JSSLG003	JSSLB003	JSSLM003

Note：Motors with brakes below 750W are used in conjunction with the same power cords. For detailed wiring, please refer to the manual.

Motor Series	Capacity (KW)	Motor Model	Driver	CN1 Connector	Incremental Encoder Cable	Absolute Encoder Cable	3m Power Cord	Motor Brake Connector
PMB Series Medium Inertia Medium Capacity 2000rpm	1KW	PMB10A3K	JSDE2-30A	JSSECN44P	JSSMLG003	JSSMLB003	JSSMLM003	JSSCNML07
	1.5KW	PMB15A3K	JSDE2-30A/50A3	JSSECN44P	JSSMLG003	JSSMLB003	JSSMLM003	JSSCNML07
	2KW	PMB20A3K	JSDE2-50A3	JSSECN44P	JSSMLG003	JSSMLB003	JSSMLM003	JSSCNML07
	3KW	PMB30A3K	JSDE2-75A3	JSSECN44P	JSSMLG003	JSSMLB003	JSSMLM003	JSSCNML07
PBH Series High Inertia Medium Capacity 1500rpm	0.85KW	BH09	JSDE2-30A/50A3	JSSECN44P	JSSMLG003	JSSMLB003	JSSMLM003	JSSCNML07
	1.3KW	BH13	JSDE2-503A/75A3	JSSECN44P	JSSMLG003	JSSMLB003	JSSMLM003	JSSCNML07
	1.8KW	BH18	JSDE2-75A3	JSSECN44P	JSSMLG003	JSSMLB003	JSSMLM003	JSSCNML07
		BH18_18	JSDE2-75A3	JSSECN44P	JSSMLG003	JSSMLB003	JSSILM003	JSSCNBL03
PIH Series Medium Inertia Medium Capacity 1500rpm	3KW	PIH30A3K	JSDE2-75A3	JSSECN44P	JSSMLG003	JSSMLB003	JSSBLM003	JSSCNBL03



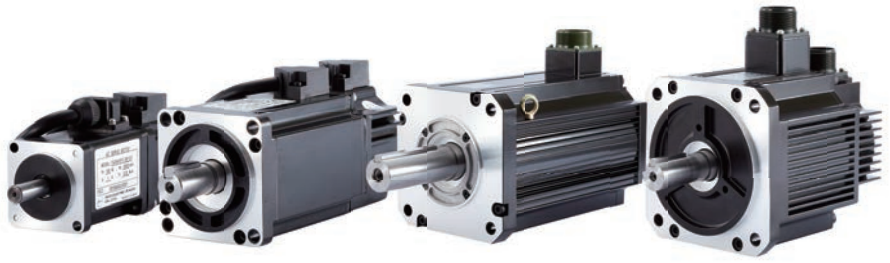
JSMA Features

Motor characteristics

G2S series matched with TECO's new JSMA series AC servo motor can increase the resolution of the encoder to 23 bit.

In addition, we are introducing brand new low, medium, and high inertia series motors. Thus, we can provide customers with servo motor in the 50W – 15kW power range.

The brand new series of motors not only provides high-resolution encoder, but their performance has also been improved. The highest rotation speed has been increased to 6,000 rpm (machines under 750W). The machine's body length has been significantly shortened. Heat dissipation has also been improved to significantly decrease motor temperature. Cogging torque has been lowered to less than 2%. All the objectives can be achieved in any application scenario.



Motor Specifications

Low Inertia Series

JSMA Low Inertia Series JSMA-P□□□□A	Symbol	Unit	UCP5*	UC01*	UC02*	UC04*	UC08*	LC03*	LC08*
Rated Output Power	P_R	kW	0.05	0.1	0.2	0.4	0.75	0.3	0.75
Rated Torque	T_R	N-m	0.16	0.32	0.64	1.27	2.39	0.95	2.39
Instantaneous Maximum Torque	T_{max}	N-m	0.48	0.95	1.91	3.81	7.16	2.86	7.16
Rated Speed	N_R	rpm	3000						
Instantaneous Maximum Speed	N_{max}	rpm	6000	6000	6000	6000	5000	4500	3800
Rated Phase Current	I_R	A	1	0.9	1.6	2.6	4.3	2	3.75
Instantaneous Maximum Current	I_{max}	A	3	2.7	4.8	8.1	14	6	11.25
Torque Constant	K_T	N-m/A	0.16	0.32	0.46	0.49	0.56	0.52	0.77
Rotor Inertia	J_M	kg-cm^2	0.022	0.041	0.17	0.28	0.9	0.67	2.46
Rotor Inertia (with brake)	J_M	kg-cm^2	0.028	0.047	0.23	0.34	1.03	0.67	2.46
Motor Impedance	Ra	Ω	12.9	25.4	6.4	3.15	1.48	5.58	2.18
Motor Inductive Reactance	La	mH	14.8	26.5	16.2	11	10.1	11.6	7.7
Weight (standard)	W	kg	0.35	0.48	1	1.37	2.4	1.59	3.05
Weight (with brake)	W	kg	0.57	0.7	1.4	1.87	3.8	1.59	5.35
Insulation Class	-	-	Class F						
Operating Temperature	T	℃	0~40						
Operating Humidity	RH	%	<80						
Storage Temperature	T	℃	-20～60						
Storage Humidity	RH	%	<80						

(1) G2S is suitable for all the motor models shown above (2) E2 is suitable for motors marked with an asterisk (*)

Medium Inertia Series

JSMA Medium Inertia Series JSMA-P□□□□A	Symbol	Unit	MB10*	MB15*	MB20*	MB30*	IH30	IH44	IH55	IH75	IH110	IH150
Rated Output Power	P_R	kW	1.0	1.5	2.0	3.0	3	4.4	5.5	7.5	11	15
Rated Torque	T_R	N-m	4.78	7.16	9.55	14.33	19.1	28	35.1	47.8	70	95.5
Instantaneous Maximum Torque	T_{max}	N-m	14.33	21.49	28.65	42.69	47.75	70	87.75	122.6	175	204
Rated Speed	N_R	rpm	2000	2000	2000	2000	1500	1500	1500	1500	1500	1500
Instantaneous Maximum Speed	N_{max}	rpm	2800	2800	2500	2500	2000	2000	2000	2000	2000	2000
Rated Phase Current	I_R	A	5.16	7.57	9.18	14.0	16	23.6	28.5	38.6	51	78
Instantaneous Maximum Current	I_{max}	A	15.50	22.71	27.50	42.00	40	59	71.2	99.1	127.5	170
Torque Constant	K_T	N-m/A	1.02	1.04	1.14	1.13	1.19	1.19	1.23	1.24	1.45	1.22
Rotor Inertia	J_M	kg-cm^2	6.26	8.88	12.14	17.92	39.95	59.17	77.9	108.4	155.3	235.2
Rotor Inertia (with brake)	J_M	kg-cm^2	6.96	9.58	12.84	18.62	42.36	-	-	-	-	-
Motor Impedance	Ra	Ω	1.22	0.79	0.58	0.33	0.275	0.167	0.129	0.1	0.07	0.034
Motor Inductive Reactance	La	mH	6.7	4.7	3.8	2.1	6.8	4.3	3.2	2.5	2	0.99
Weight (standard)	W	kg	6.47	8.08	10.16	13.87	16.9	22.1	27.1	T.B.D	51	T.B.D
Weight (with brake)	W	kg	8.08	9.69	11.7	15.48	21	-	-	-	-	-
Insulation Class	-	-	Class B				Class F					
Operating Temperature	T	℃	0~40									
Operating Humidity	RH	%	<90									
Storage Temperature	T	℃	-20~60									
Storage Humidity	RH	%	<90				<80					<90

(1) G2S is suitable for all the motor models shown above (2) E2 is suitable for motors marked with an asterisk (*)

JSMA Medium Inertia Series JSMA-P□□□□A	Symbol	Unit	MA05*	MA10*	MC10*	MA15*	MC15*	MC20*	MC30*
Rated Output Power	P_R	kW	0.55	1	1	1.5	1.5	2	3
Rated Torque	T_R	N-m	5.25	9.55	3.2	14.32	4.78	6.37	9.55
Instantaneous Maximum Torque	T_{max}	N-m	15.76	28.65	9.6	42.96	14.33	19.11	28.65
Rated Speed	N_R	rpm	1000	1000	3000	1000	3000	3000	3000
Instantaneous Maximum Speed	N_{max}	rpm	1500	1350	3700	1250	3700	3850	3850
Rated Phase Current	I_R	A	3.43	5.16	4.96	7.45	7.06	9.5	14
Instantaneous Maximum Current	I_{max}	A	10.3	15.5	14.88	22.35	21.2	28.5	42
Torque Constant	K_T	N-m/A	1.68	2.04	0.72	2.11	0.74	0.74	0.75
Rotor Inertia	J_M	Kg-cm^2	6.26	12.14	4.6	17.92	6.26	8.88	12.54
Rotor Inertia (with brake)	J_M	Kg-cm^2	6.96	12.84	5.3	18.62	6.96	9.58	12.84
Motor Impedance	Ra	Ω	3.58	1.85	1.02	1.19	0.65	0.4	0.25
Motor Inductive Reactance	La	mH	18.3	12.1	5.1	8.4	3.6	2.4	1.6
Weight (standard)	W	Kg	6.49	10.16	5.29	13.87	6.47	8.08	10.16
Weight (with brake)	W	Kg	8.08	11.77	6.9	15.48	8.08	9.69	11.77
Insulation Class	-	-	Class B						
Operating Temperature	T	℃	0~40						
Operating Humidity	RH	%	<90						
Storage Temperature	T	℃	-20～60						
Storage Humidity	RH	%	<90						

(1) G2S is suitable for all the motor models shown above (2) E2 is suitable for motors marked with an asterisk (*)

High Inertia Series

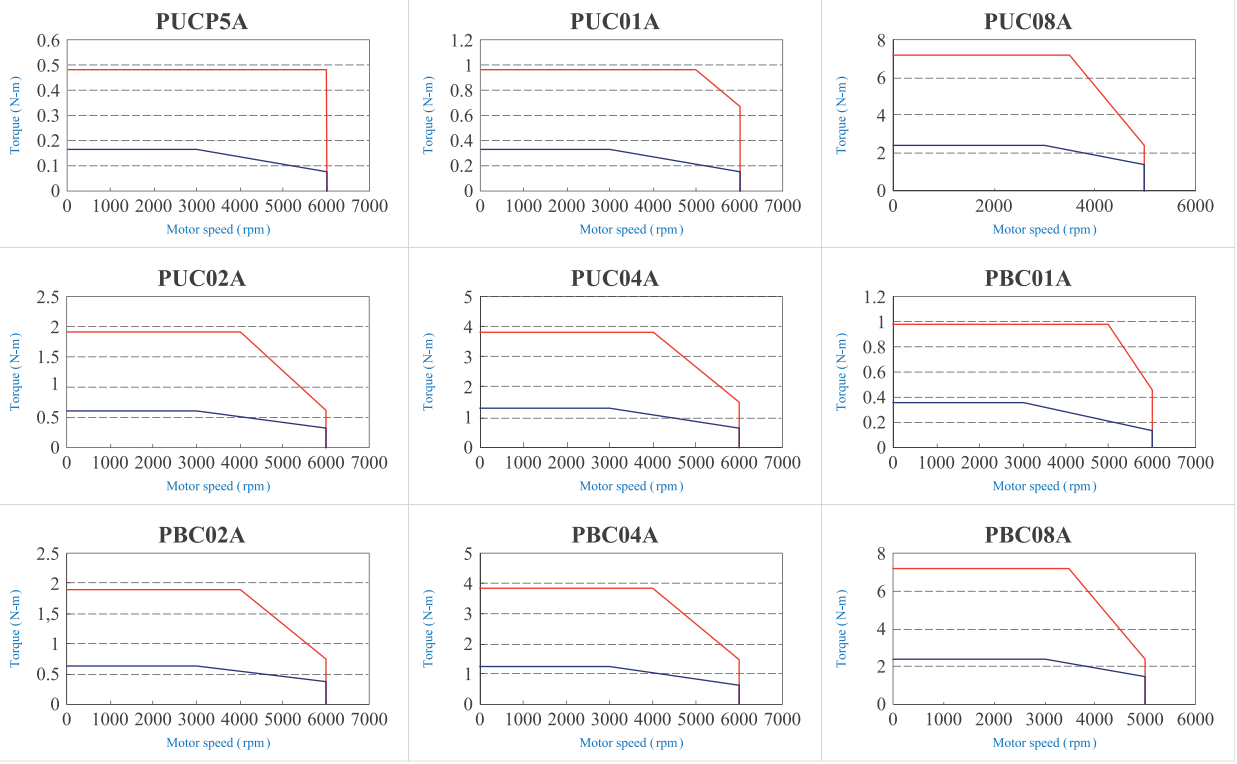
JSMA High Inertia Series JSMA-P□□□□A	Symbol	Unit	BC01*	BC02*	BC04*	BC08*	BH09*	BH13*	BH18*	BH 18_18*	BH29	BH44	BH55	BH75
Rated Output Power	P_R	kW	0.1	0.2	0.4	0.75	0.85	1.3	1.8	1.8	2.9	4.4	5.5	7.5
Rated Torque	T_R	N-m	0.32	0.64	1.27	2.39	5.39	8.34	11.5	11.5	18.5	28.4	35	48
Instantaneous Maximum Torque	T_{max}	N-m	0.95	1.91	3.81	7.16	13.8	23.3	28.7	27.6	44.3	71.1	87.6	119
Rated Speed	N_R	rpm	3000	3000	3000	3000	1500	1500	1500	1500	1500	1500	1500	1500
Instantaneous Maximum Speed	N_{max}	rpm	6000	6000	6000	5000	3000	3000	3000	3000	3000	3000	3000	3000
Rated Phase Current	I_R	A	0.9	1.6	2.6	4.3	7	11.4	14.8	17.8	24	33.5	42.1	54.7
Instantaneous Maximum Current	I_{max}	A	2.7	4.8	8.1	14	18.1	32.4	37.4	42.7	58	85	110	136
Torque Constant	K_T	N-m/A	0.35	0.46	0.47	0.56	0.75	0.72	0.78	0.65	0.77	0.84	0.83	0.88
Rotor Inertia	J_M	kg-cm^2	0.082	0.42	0.67	1.51	13.34	20.07	26.66	31.9	45.55	65.41	89.98	129.8
Rotor Inertia (with brake)	J_M	kg-cm^2	0.089	0.48	0.73	1.64	14.04	20.77	27.36	34.31				
Motor Impedance	Ra	Ω	24	6.4	3.15	1.48	0.65	0.355	0.255	0.16	0.113	0.091	0.054	0.039
Motor Inductive Reactance	La	mH	22	16.2	11	10.1	5.5	3.4	2.7	2.7	2.5	2.2	1.4	1.1
Weight (standard)	W	kg	0.48	1.1	1.53	2.7	6.7	8.9	11.1	14.1	18	23.5	35	41.2
Weight (with brake)	W	kg	0.7	1.5	2.03	4.1	8.3	10.5	12.7	18.6				
Insulation Class	-	-	Class F											
Operating Temperature	T	℃	0~40											
Operating Humidity	RH	%	<80											
Storage Temperature	T	℃	-20~60											
Storage Humidity	RH	%	<80											

(1) G2S is suitable for all the motor models shown above (2) E2 is suitable for motors marked with an asterisk (*)

Motor TN curve

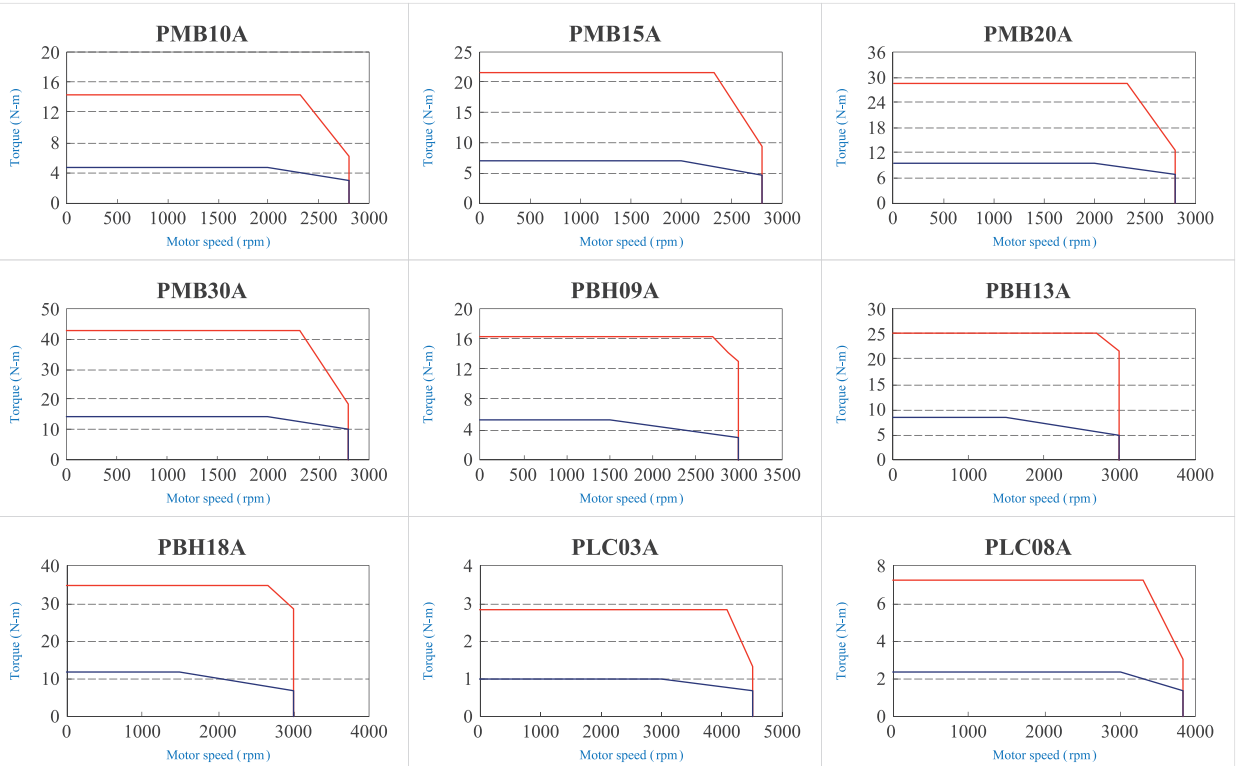
Up to 80 Frame Series

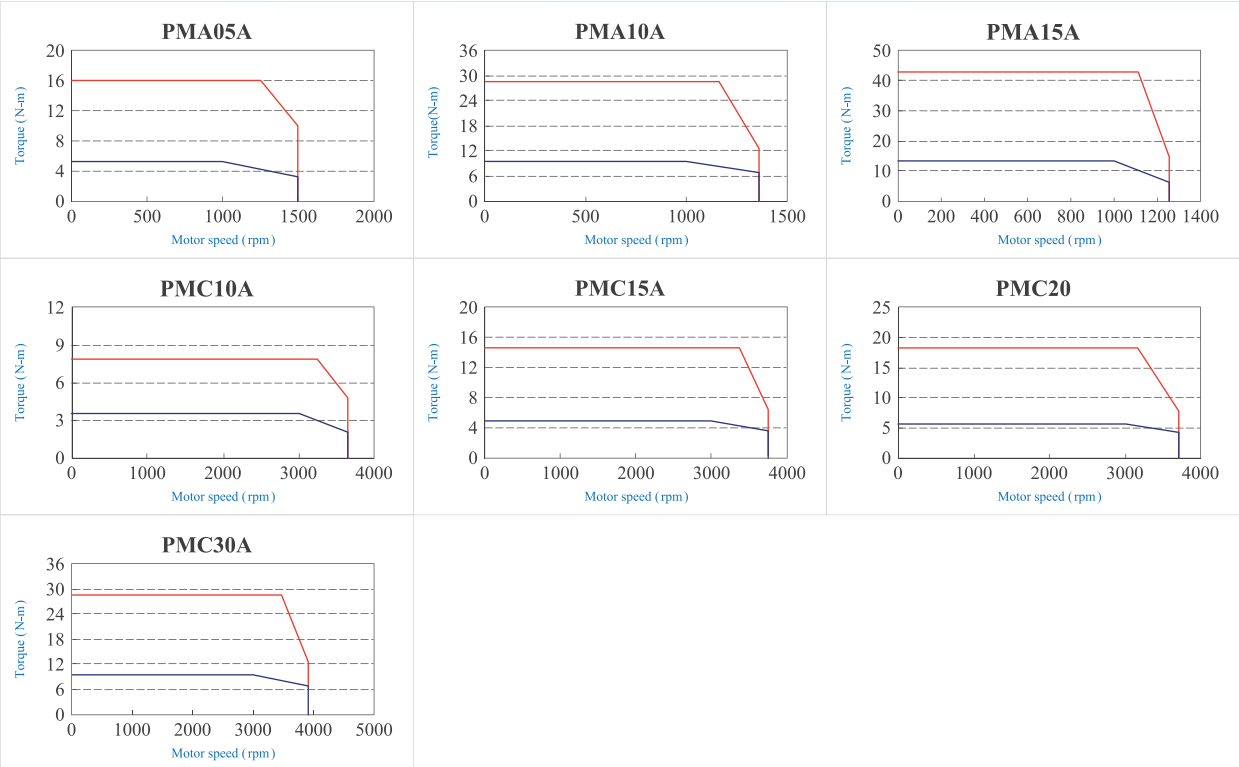
Intermittent Working Area | Continuous Working Area



Up to 130 Frame Series

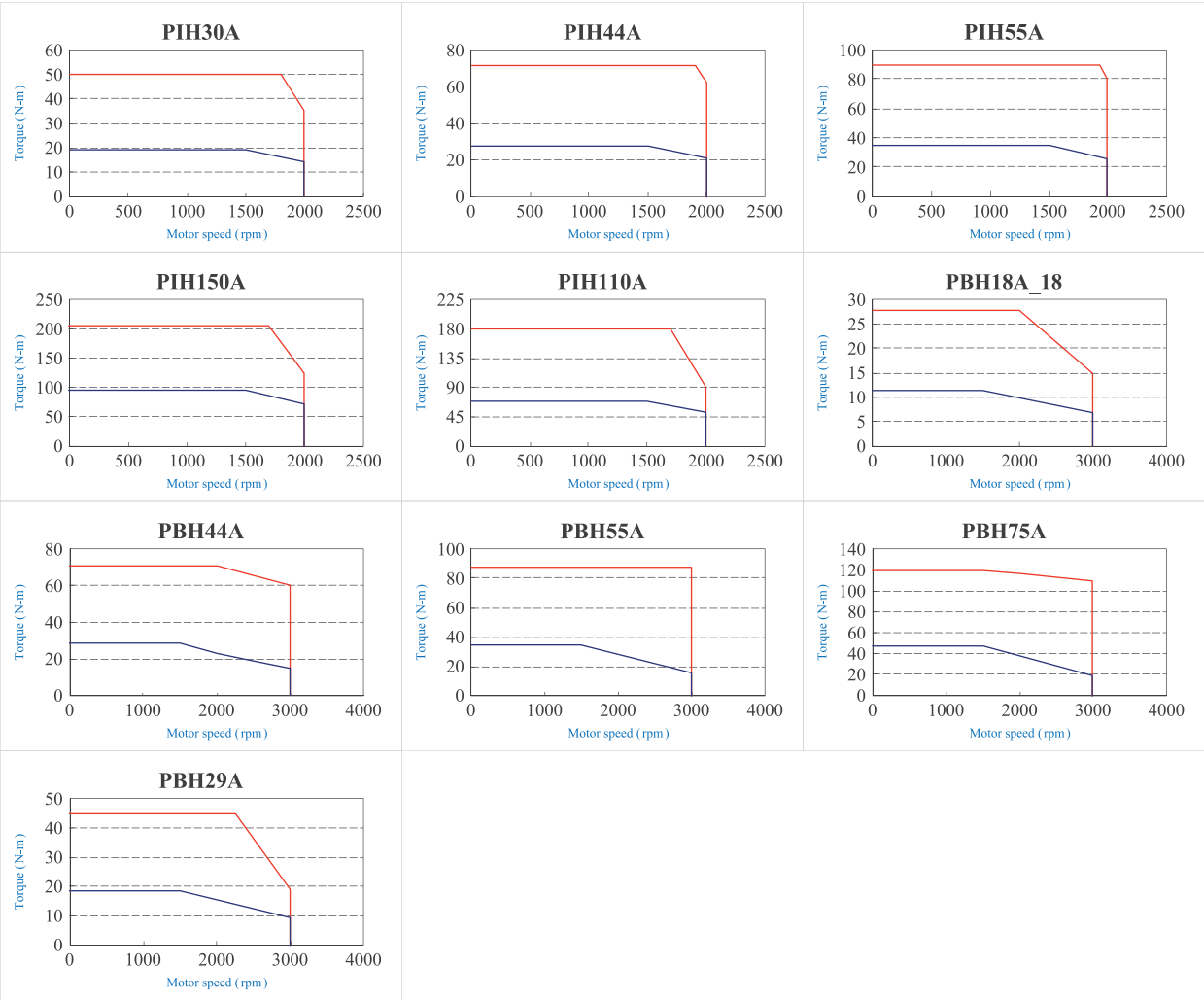
Intermittent Working Area | Continuous Working Area





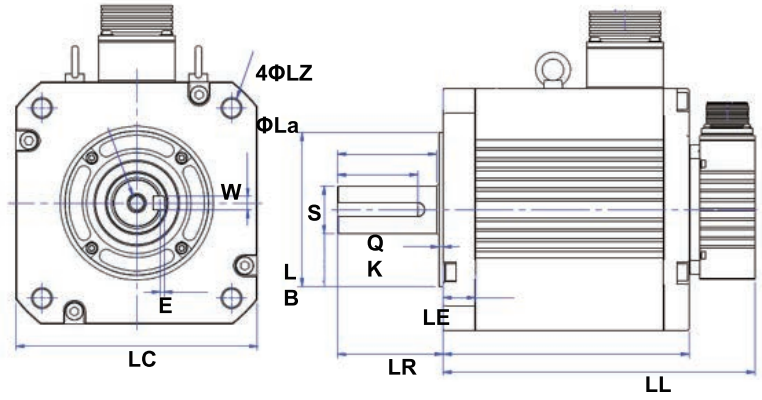
Up to 220 Frame Series

Intermittent Working Area | Continuous Working Area



Integrated Automation Solutions Provider

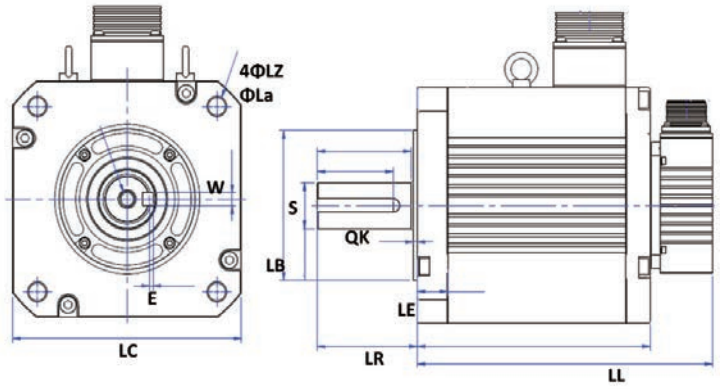
Up to 80 Frame Series



Up to 80 Frame Series JSMA-P□□□□A	JSMA-PUC Series					JSMA-PBC Series				JSMA-PLC Series	
	UCP5*	UC01*	UC02*	UC04*	UC08*	BC01*	BC02*	BC04*	BC08*	LC03*	LC08*
LZ Φ	Φ4.5	Φ4.5	Φ5.5	Φ5.5	Φ6.5	Φ4.5	Φ5.5	Φ5.5	Φ6.5	Φ5.5	Φ6.5
La Φ	Φ46	Φ46	Φ70	Φ70	Φ90	Φ46	Φ70	Φ70	Φ90	Φ90	Φ100
LC	40	40	60	60	80	40	60	60	80	76	86
E	-	-	2	2	2.5	-	2	2	2.5	2	2
W	-	-	5	5	6	-	5	5	6	5	5
S Φ	Φ8	Φ8	Φ14	Φ14	Φ19	Φ8	Φ14	Φ14	Φ19	Φ14	Φ16
LB Φ	Φ30	Φ30	Φ50	Φ50	Φ70	Φ30	Φ50	Φ50	Φ70	Φ70	Φ80
QK	-	-	20	20	28	-	20	20	28	20	25
LE	2.5	2.5	3	3	3	2.5	3	3	3	3	3
LR	25	25	30	30	40	25	30	30	40	30	35
LL (without brake)	73	88	101	123	122.2	86	101	128.5	137	113.4	148
LL (with brake)	116.6	131.6	139.5	161.5	160.5	129.6	139.5	167	175.3	147.8	183.2

(1) G2S is suitable for all the motor models shown above (2) E2 is suitable for motors marked with an asterisk (*)

Up to 130 Frame Series



Up to 130 Frame Serie JSMA-P□□□□A	MB Series				BH Series			MA Series			MC Series			
	MB10*	MB15*	MB20*	MB30*	BH09*	BH13*	BH18*	MA05*	MA10*	MA15*	MC10*	MC15*	MC20*	MC30*
LZ Φ	Φ Φ 9	Φ 9	Φ 9	Φ 9	Φ 9	Φ 9	Φ 9	Φ 9	Φ 9	Φ 9	Φ 9	Φ 9	Φ 9	Φ 9
La Φ	Φ 145	Φ 145	Φ 145	Φ 145	Φ 145	Φ 145	Φ 145	Φ 145	Φ 145	Φ 145	Φ 145	Φ 145	Φ 145	Φ 145
LC	130.4	130.4	130.4	130.4	130	130	130	130.4	130.4	130.4	130.4	130.4	130.4	130.4
E	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
W	6	6	6	6	6	6	6	6	6	6	6	6	6	6
S Φ	Φ 22	Φ 22	Φ 22	Φ 22	Φ 22	Φ 22	Φ 22	Φ 22	Φ 22	Φ 22	Φ 22	Φ 22	Φ 22	Φ 22
LB Φ	Φ 110	Φ 110	Φ 110	Φ 110	Φ 110	Φ 110	Φ 110	Φ 110	Φ 110	Φ 110	Φ 110	Φ 110	Φ 110	Φ 110
QK	35	35	35	35	35	35	35	35	35	35	35	35	35	35
LE	6	6	6	6	6	6	6	6	6	6	6	6	6	6
LR	58	58	58	58	58	58	58	58	58	58	58	58	58	58
LL (without brake)	164.8	183.8	213.8	264.8	153.3	178.3	203.3	163.8	213.8	263.8	148.8	163.8	184.8	213.8
LL (with brake)	218.3	238.3	268.3	318.3	195.9	220.9	245.9	218.3	268.3	318.3	207.9	218.3	238.3	268.3

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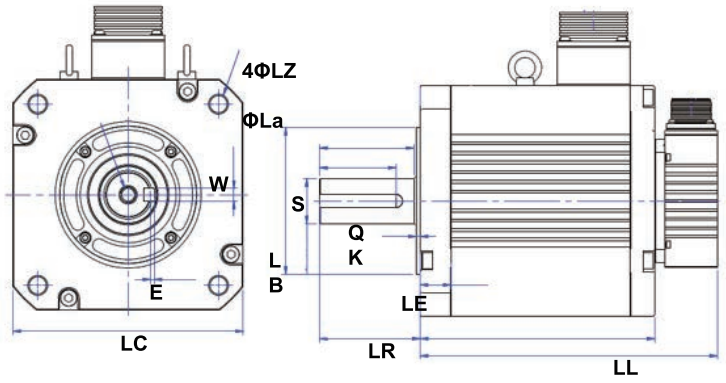
Up to 220 Frame Series



Up to 130 Frame Series JSMA-P□□□□A	IH Series				BH Series					IH Series	
	IH30*	IH44	IH55	IH75	BH18_18*	BH29	BH44	BH55	BH75	IH110	IH150
LZ Φ	Φ 13.5	Φ 13.5	Φ 13.5	Φ 13.5	Φ 13.5	Φ 13.5	Φ 13.5	Φ 13.5	Φ 13.5	Φ 13.5	Φ 13.5
La Φ	Φ 200	Φ 200	Φ 200	Φ 200	Φ 200	Φ 200	Φ 200	Φ 200	Φ 200	Φ 235	Φ 235
LC	180	180	180	180	180	180	180	180	180	220	220
E	3	3	3	3	3	3	3	3	3	3	4
W	10	10	10	12	10	10	10	12	12	12	16
S Φ	Φ 35	Φ 35	Φ 42	Φ 42	Φ 35	Φ 35	Φ 35	Φ 42	Φ 42	Φ 42	Φ 55
LB Φ	Φ 114.3	Φ 114.3	Φ 114.3	Φ 114.3	Φ 114.3	Φ 114.3	Φ 114.3	Φ 114.3	Φ 114.3	Φ 200	Φ 200
QK	60	60	60	60	60	60	60	90	90	90	90
LE	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4	4
LR	79	79	113	113	79	79	79	113	113	116	116
LL (without brake)	191.4	221.4	248.9	306.4	178.4	200.4	232.4	268.4	342.4	352	429
LL (with brake)	243.6	273.6	301.1	359.6	230.6	252.6	284.6	320.6	394.6	433	502

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GJ-84-00 2018-04-15