

Maxsine



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Product Catalogue

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Product Display



EP1 series AC Servo Driver



EP1C series AC Servo Driver



EP2 series AC Servo Driver



EP3 series AC Servo Driver



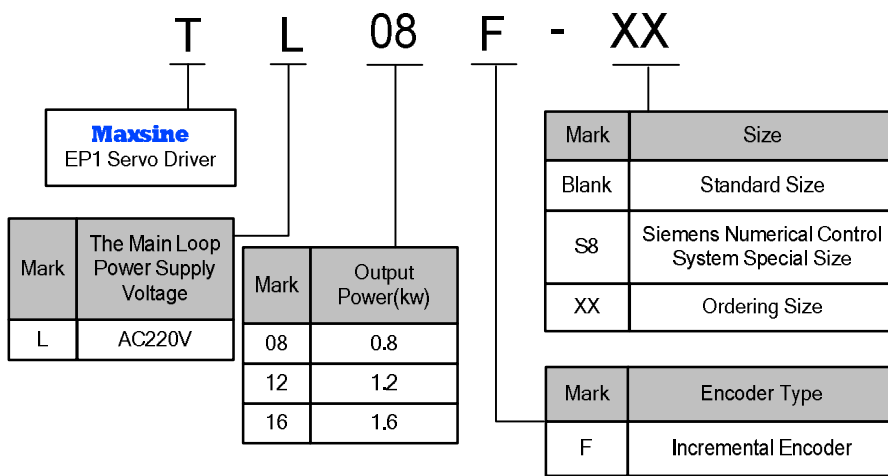
Servo Motor Series

EP1 Series

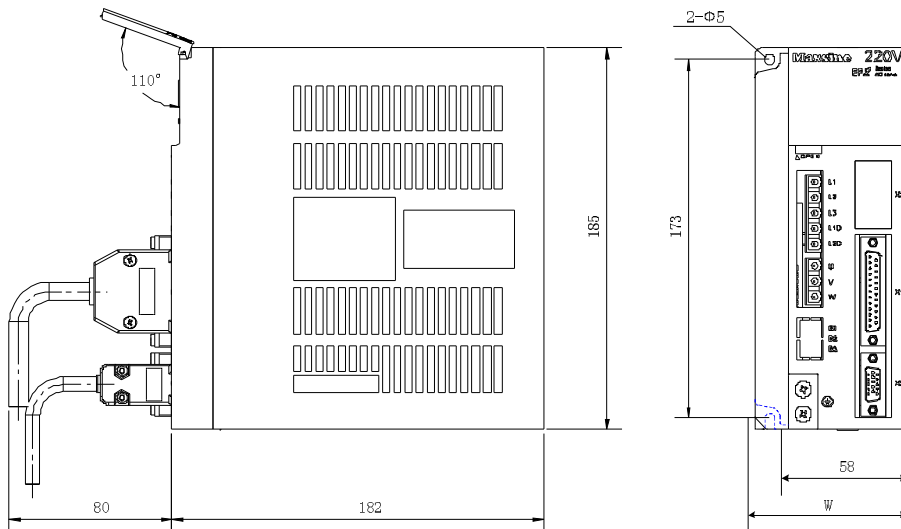
Product Introduction

EP1 series AC Servo Driver adopts advanced control algorithm and intelligent power module (IPM), which could realize precise digital control on torque, speed and position. Designed on the basis of EP100 series, functions of resonance inhibition and signal output of encoder are added. The selected exquisite operation panel could do the real-time monitor and adjust the operating situation of motors. Designed on the reliability requirement of domestic industrial environment, it helps to make the stability of products reliable.

Introduction of EP1 Models



Introduction of EP1 Size



| Model | TL08F | TL12F | TL16F |
|----------|-------|-------|-------|
| Size(mm) | | | |
| W | 75 | 93 | 100 |

Introduction of EP1 Specification

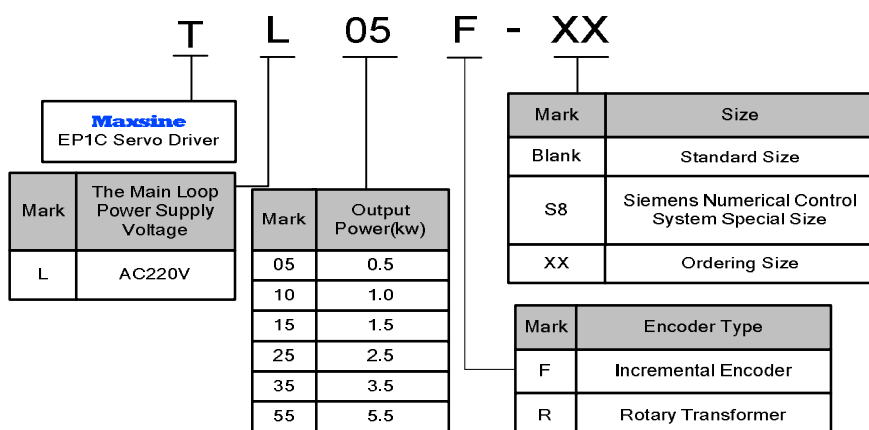
| Model | | TL08F | TL12F | TL16F |
|--------------------------|--------------------------|---|---|-------|
| Input Power | | 3-phase AC220V -15% ~ +10% 50/60Hz | | |
| Environment | Temperature | Working: 0°C ~ 40°C Storing: -40°C ~ 50°C; | | |
| | Humidity | Working: 40% ~ 80%(non condensing) Storing: 93% below(non condensing) | | |
| | Atmospheric Pressure | 86kPa ~ 106 kPa | | |
| Protection Level | | IP20 | | |
| Control Mode | | vector control | | |
| Regenerative Braking | | Built-in | | |
| Feedback Mode | | 2500 line incremental encoder、encoder with fewer lines | | |
| Control Mode | | Position | | |
| Digital input | | 5 Programmable input terminals(Optical Isolation) Function: SRVON、ACLR、CW Drive inhibition、CCW Drive inhibition、 CW Torque inhibition、CCW Torque inhibition、Emergency Stop、 Electronic gear selection 1、electronic gear selection2、Position deviation clear、pulse input inhibition. | | |
| Digital Output | | 3 Programmable input terminals(Optical Isolation) Function: SRDY、alarm、Finish Orientation Output、Reach Speed、 electro-magnetic brake、Torque restrictions | | |
| Signal Output of encoder | | Signal Types | A、B、Z Differential output, Z signal open-collector output | |
| Position | Input Frequency | differential input: $\leq 500\text{kHz(kpps)}$, single-ended input: $\leq 200\text{kHz(kpps)}$ | | |
| | instruction mode | Pulse+Signal, CCW Pulse/CW Pulse, Two-phase A/ orthogonal Pulse | | |
| | Electronic Gear Ratio | 1 ~ 32767/1 ~ 32767 | | |
| Surveillance Function | | Revolving Speed、Current Position、Positional Deviation、Motor Torque、Motor Current、Instructions Pulse Frequency etc. | | |
| Defensive function | | Overspeed、Overvoltage、Overcurrent、Overload、Abnormal of main Power、Abnormal Encoder、out of tolerance etc. | | |
| Feature | Speed Frequency Response | $\geq 300\text{Hz}$ | | |
| | Speed Fluctuation Rate | $< \pm 0.03\%$ (load 0 ~ 100%); $< \pm 0.02\%$ (power -15% +10%) | | |
| | Speed Ratio | 1 : 5000 | | |

EP1C Series

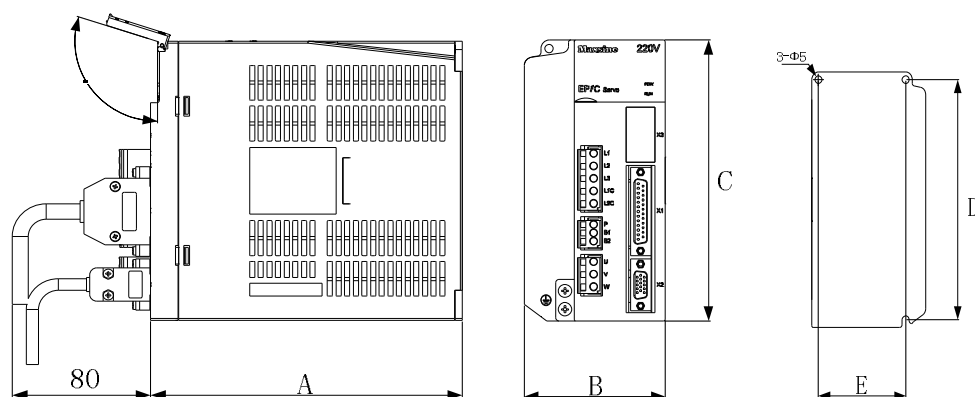
Product Introduction

EP1C series AC Servo Driver adopts advanced control algorithm and intelligent power module (IPM), which could realize precise digital control on position. Designed on the basis of EP1 series, functions of external brake resistor , DC Reactor terminals and USB communication interfaces are added. As a result, power section has become more complement whose range is from 500w to 5.5kw at present.

Introduction of EP1C Models



Introduction of EP1C Size



| Model Size(mm) | TL05F | TL10F | TL15F | TL25F | TL35F | TL55F |
|----------------|-------|-------|-------|-------|-------|-------|
| A | 150 | 180 | 180 | 180 | 180 | 210 |
| B | 65 | 75 | 85 | 95 | 105 | 115 |
| C | 168 | 168 | 168 | 200 | 220 | 250 |
| D | 158 | 158 | 158 | 189 | 209 | 239 |
| E | 55 | 65 | 65 | 84 | 94 | 104 |

Introduction of EP1C Specification

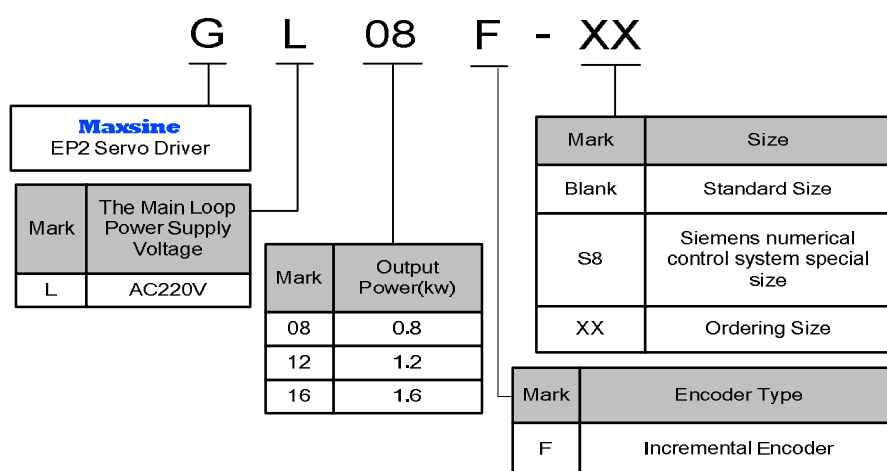
| Model | | TL05F | TL10F | TL15F | TL25F | TL35F | TL55F |
|--------------------------|--------------------------|---|---|-------|-------|-------|-------|
| Input Power | | 3-phase AC220V -15% ~ +10% 50/60Hz | | | | | |
| Environment | Temperature | Working: 0°C ~ 40°C Storing: -40°C ~ 50°C | | | | | |
| | Humidity | Working: 40% ~ 80%(non condensing) Storing: 93% Below(non condensing) | | | | | |
| | Atmospheric Pressure | 86kPa ~ 106 kPa | | | | | |
| Protection Level | | IP20 | | | | | |
| Control Mode | | vector control | | | | | |
| Regenerative Braking | | Built-in/Built-out | | | | | |
| Feedback Mode | | 2500 line incremental encoder、encoder with fewer lines | | | | | |
| Control Mode | | Position | | | | | |
| Digital Input | | 5 Programmable input terminals(Optical Isolation) Function SRVON、ACLR、CW Drive inhibition、CCW Drive inhibition、CW Torque inhibition、CCW Torque inhibition、Emergency Stop、Electronic gear selection 1、electronic gear selection2、Position deviation clear、pulse input inhibition | | | | | |
| Digital Output | | 3 Programmable input terminals(Optical Isolation) Function: SRDY、alarm、Finish Orientation Output、Reach Speed、electro-magnetic brake、Torque restrictions | | | | | |
| Signal Output of Encoder | | Signal Types | A、B、Z Differential output, Z signal open-collector output | | | | |
| Position | Input Frequency | differential input: $\leq 500\text{kHz(kpps)}$, single-ended input: $\leq 200\text{kHz(kpps)}$ | | | | | |
| | instruction mode | Pulse+Signal, CCW Pulse/CW Pulse, orthogonal Pulse | | | | | |
| | Electronic Gear Ratio | 1 ~ 32767/1 ~ 32767 | | | | | |
| Surveillance Function | | Revolving Speed、Current Position、Positional Deviation、Motor Torque、Motor Current、Instructions Pulse Frequency etc. | | | | | |
| Defensive function | | Overspeed、Overvoltage、Overcurrent、Overload、Abnormal of main Power、Abnormal Encoder、out of tolerance etc. | | | | | |
| Feature | Speed Frequency Response | $\geq 300\text{Hz}$ | | | | | |
| | Speed Fluctuation Rate | $< \pm 0.03\%$ (load 0% ~ 100%); $< \pm 0.02\%$ (power-15% ~ +10%) | | | | | |
| | Speed Ratio | 1 : 5000 | | | | | |

EP2 Series

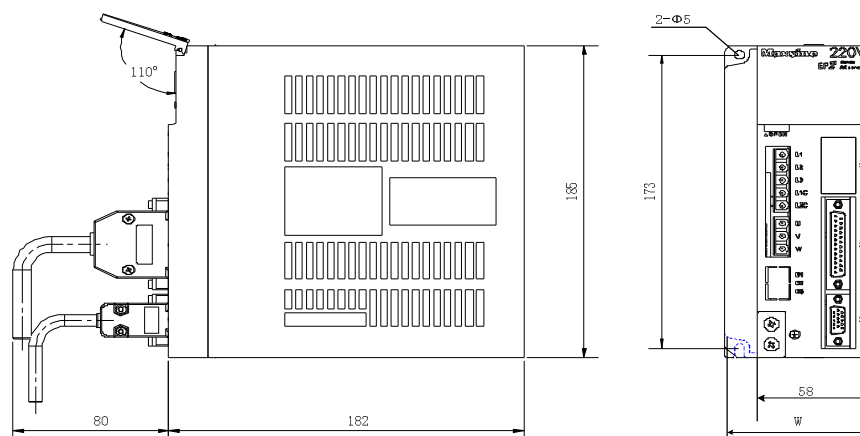
Product Introduction

Designed and produced by market demand, EP2 series Multifunctional AC Servo Driver adopts advanced control algorithm and intelligent power module (IPM), which could realize precise digital control on torque speed and position. Designed on the basis of EP100 series, functions of resonance inhibition and internal torque are added. The selected exquisite operation panel could do the real-time monitor and adjust the operating situation of motors. Designed on the reliability requirement of domestic industrial environment, it helps to make the stability of products reliable.

Introduction of EP2 Models



Introduction of EP2 Size



| Model | GL08F | GL12F | GL16F |
|----------|-------|-------|-------|
| Size(mm) | | | |
| W | 75 | 93 | 100 |

Introduction of EP2 Specification

| Model | | GL08F | GL12F | GL16F |
|--------------------------|--|---|---|-------|
| Input Power | | 3-phase AC220V - 15% ~ +10% 50/60Hz | | |
| Environment | Temperature | Working: 0°C ~ 40°C Storing: -40°C ~ 50°C | | |
| | Humidity | Working: 40% ~ 80%(non condensing) Storing: 93% below(non condensing) | | |
| | Atmospheric Pressure | 86kPa ~ 106 kPa | | |
| Protection Level | | IP20 | | |
| Control Mode | | Vector control | | |
| Regenerative Braking | | Built-in | | |
| Feedback Mode | | 2500 line incremental encoder、encoder with fewer lines | | |
| Control Mode | | Position, speed, torque, position/ speed、speed/torque、position/torque | | |
| Digital Input | | 5 Programmable Input Terminals(Optical Isolation) Function: SRVON、ACLR、CW Drive Inhibition、CCW Drive Inhibition、CW Torque Inhibition、CCW Torque Inhibition、ZEROSPD、NULL、INY、Internal Speed Selection1、Internal Speed Selection 2、Internal Torque Selection 1、Internal Torque Selection 2、Emergency Stop、Control Mode Switch、Gain Switch、Electronic Gear Selection 1、Electronic Gear Selection2、Position Deviation Clear、Pulse Input Inhibition、Ratio Control、ZRN Trigger、ZRN Reference Point. | | |
| Digital Output | | 3 Programmable Input Terminals(Optical Isolation) Function: SRDY、Alarm Zero-speed, Finish Orientation Output、Reach Speed、Torque Speed、Electro-magnetic Brake、Servo Operation、Location Close、Torque Restrictions、Speed Restrictions、ZRN Finish | | |
| Signal Output of Encoder | | Signal Types | A、B、Z differential output, Z signal open-collector output | |
| | | Frequency Dividing Ratio | 1 ~ 31/1 ~ 31 | |
| Position | Input Frequency | Differential Input: ≤500kHz(kpps), Single-ended Input: ≤200kHz(kpps) | | |
| | Instruction Mode | Pulse+Signal, CCW Pulse/CW Pulse, Two-phase A/ Orthogonal Pulse | | |
| | Electronic Gear Ratio | 1 ~ 32767/1 ~ 32767 | | |
| Speed | Simulation Command Input | -10V ~ +10V, Input Impedance 10kΩ | | |
| | Instructions Acceleration and Deceleration | Parameters set | | |
| | Instructions Source | Analog、Internal Speed Instructions | | |
| Torque | Simulation Command Input | -10V ~ +10V, Input Impedance 10kΩ | | |
| | Speed Restriction | Parameters set | | |
| | Instructions Source | Analog、Internal Torque Instructions | | |
| Special Functions | | ZRN、Gain Switch、Mechanical Resonance Wave Trap | | |
| Surveillance Function | | Revolving Speed、Current Position、Positional Deviation、Motor Torque、Motor Current、Instructions Pulse Frequency etc. | | |
| Defensive Function | | Overspeed、Overvoltage、Overcurrent、Overload、Abnormal of Main Power、Abnormal Encoder、Out of Tolerance etc. | | |
| Feature | Speed Frequency Response | ≥300Hz | | |
| | Speed Fluctuation Rate | ≤±0.03%(load 0 ~ 100%); ≤±0.02%(power-15% ~ +10%) | | |
| | Speed Ratio | 1 : 5000 | | |

EP3 Series

Product Name

Full-digital AC Servo Driver

Product Models

GL series: GL1A0/GL1A8/GL3A0/GL7A5/GL120/GL160/GL190/GL240

GH series: GH3A5/GH5A4/GH8A5/GH130/GH170

Product Features

Designed and produced by market demand, EP3 series Multifunctional AC Servo Driver adopts advanced control algorithm and intelligent power module (IPM), which could realize precise digital control on torque speed and position. Designed on the basis of EP2 series, functions of USB Interfaces , sustaining Modbus agreement and internal simple PLC are added. This series includes 3-pharse 220V series and 3-pharse 380V series. The feedback mode is 2500 line incremental encoder or 17 bit absolute encoder, which could support 16 bit current sampling and 16 bit external analogue sampling accuracy. Thus, it owns advantages of strong overload capacity, fast response, easy operation without setting driver code. The selected exquisite operation panel could do the real-time monitor and adjust the operating situation of motors. Designed on the reliability requirement of domestic industrial environment, it helps to make the stability of products reliable.

Position Control Mode: super-speed optoisolated plus/signal 、 CCW/CW、 signal and A/B phase Signal control mode. It adopts Pulse receiving mode of Differential drive, which could inhibit disturbing effectively. Optional command pulse filters smoothly so that the system could operate stably during accelerating and decelerating. It adds digital filtering and detection mode of pulse signal.

Simulation Command Control: speed and torque use the same analog input, difference or single terminal analog signal -10V~10V. Analog input has normal bias which could be compensated by parameters. In speed control mode, it offers internal speed with No 1~8 selected by input terminal. The internal speed could be adjusted. Optional parameters set, speed command and acceleration and deceleration time make the system operate stably during accelerating and decelerating. In torque control mode, it offers internal torque with No 1~4 selected by input terminal. The internal torque could be adjusted.

Resonance Inhibition: could be realized by adjusting internal parameters and wave trap.

PLC Function: could be realized by editable interior position、 speed parameters and external I/O

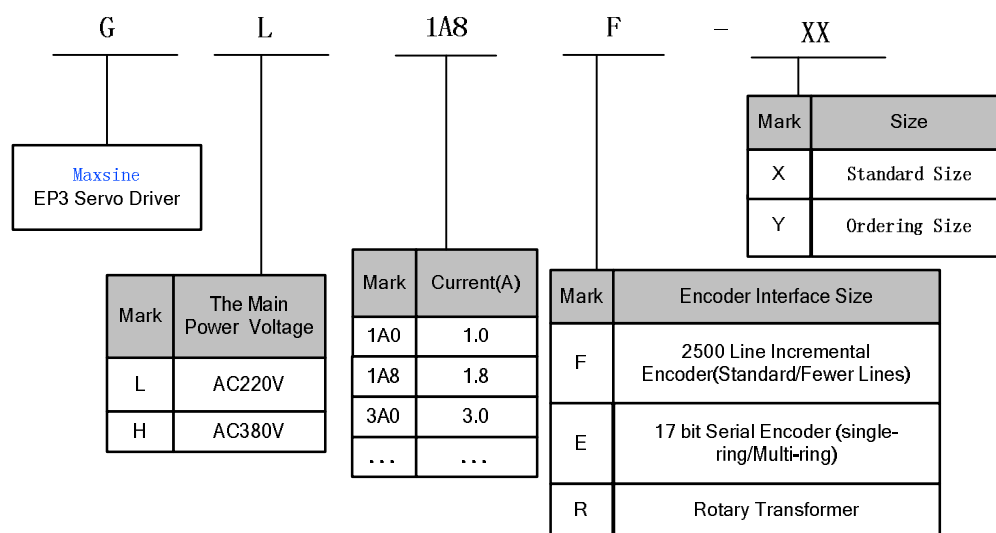
Defensive Function: A variety of error detection mechanism like overvoltage、overcurrent、overload、speeding、abnormal encoder etc.

Modbus Interfaces: support standard Modbus agreement

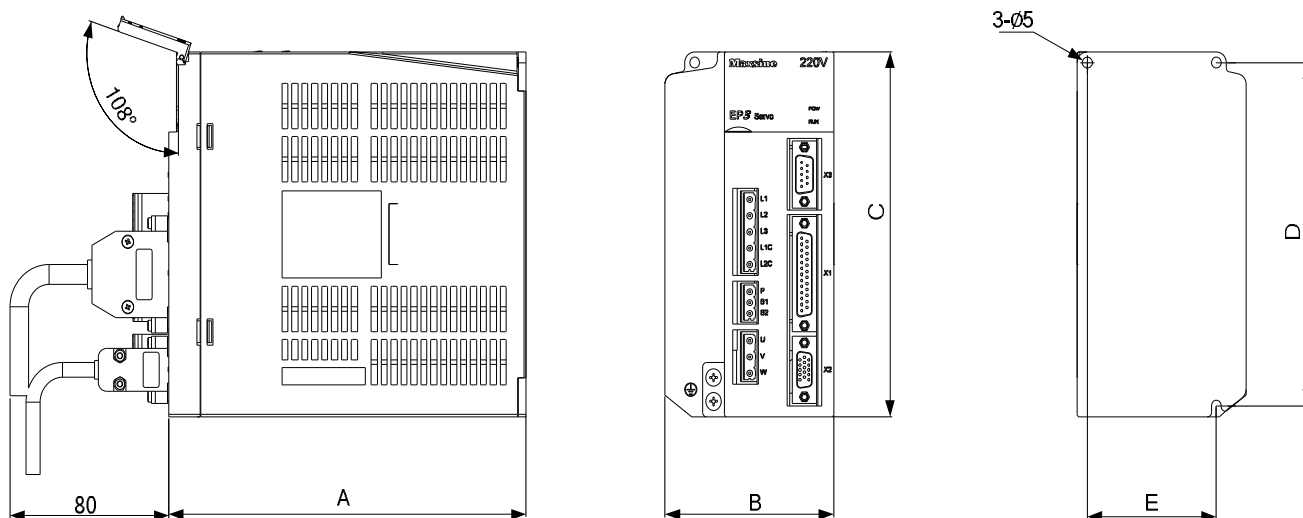
USB PC Interfaces: connect with PC and offer parameter setting.

Signal Output of Encoder: could set parameter and then output the encoder signal on setting fractional frequencyvalue by lines.

Introduction of EP3 Models



Introduction of EP3 Size



Note: EP3 series has different appearance depend on different models. Please see the details on related use manual.

| Model \ Size(mm) | GL1A0 | GL1A8/GL3A0 | GL7A5 | GL120 | GL160 | GL190 | GL240 |
|------------------|-------|-------------|-------|-------|-------|-------|-------|
| A | 150 | 150 | 180 | 180 | 180 | 180 | 210 |
| B | 55 | 65 | 85 | 95 | 95 | 105 | 115 |
| C | 168 | 168 | 168 | 168 | 200 | 220 | 250 |
| D | 158 | 158 | 158 | 158 | 189 | 209 | 239 |
| E | - | 55 | 65 | 65 | 65 | 94 | 104 |

| Model \ Size(mm) | GH3A5/GH5A4 | GH8A5 | GH130 | GH170 |
|------------------|-------------|-------|-------|-------|
| A | 180 | 180 | 180 | 210 |
| B | 95 | 95 | 105 | 115 |
| C | 168 | 200 | 220 | 250 |
| D | 158 | 189 | 209 | 239 |
| E | 65 | 65 | 94 | 104 |

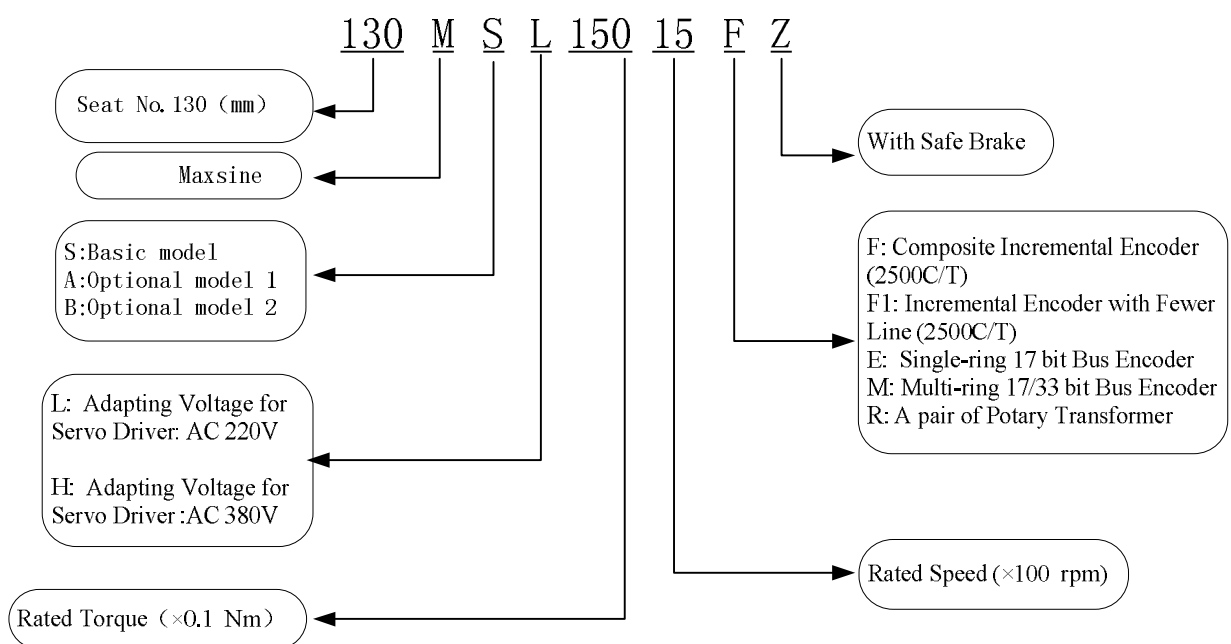
Introduction of EP3 Specification

| Model | | GL 1A0 | GL 1A8 | GL 3A0 | GL 7A5 | GL 120 | GL 160 | GL 190 | GL 240 | GH 3A5 | GH 5A4 | GH 8A5 | GH 130 | GH 170 |
|--------------------------|--|---|-----------|-----------|------------------------------------|-----------|-----------|-----------|-------------------------------------|-----------|-----------|-----------|-----------|---------------|
| Rated Output Power (KW) | | 0.1 | 0.2 | 0.4 | 1.0 | 1.5 | 2.0 | 3.0 | 5.0 | 1.0 | 1.5 | 2.0 | 3.0 | 5.0 |
| Rated Output Current (A) | | 1.0 | 1.8 | 3.0 | 7.5 | 12.0 | 16.0 | 19.0 | 24.0 | 3.5 | 5.4 | 8.5 | 13.0 | 17.0 |
| Input Power | Main Supply | 1-phase 220VAC -15% ~ +10% 50/60Hz | | | 3-phase 220VAC -15%+10% 50/60Hz | | | | 3-phase 380VAC -15%~+10% 50/60Hz | | | | | |
| | Control Supply | 1-phase 220VAC-15%~+10% 50/60Hz | | | | | | | 24VDC±15% not less than 1.5A | | | | | |
| Environment | Temperature | Working: 0 ~ 40°C | | | | | | | Storing: -40 ~ 50°C | | | | | |
| | Humidity | Working: 40% ~ 80%(non condensing) | | | | | | | Storing: 93% below(non condensing) | | | | | |
| | Atmospheric Pressure | 86kPa ~ 106 kPa | | | | | | | | | | | | |
| Protection Level | | IP20 | | | | | | | | | | | | |
| Control Mode | | Vector Control | | | | | | | | | | | | |
| Regenerative Braking | | Built-in/built-out | | | | | | | | | | | | Built -out |
| Feedback Mode | | 2500 line incremental encoder or 17 bit absolute encoder | | | | | | | | | | | | |
| Control Mode | | Position, Speed, Torque, Position/ Speed、Speed/Torque、 Position/Torque | | | | | | | | | | | | |
| Digital Input | | 5 Programmable Input Terminals(Optical Isolation) | | | | | | | | | | | | |
| Digital Output | | 3 Programmable Input Terminals(Optical Isolation) | | | | | | | | | | | | |
| Signal Output of Encoder | SignalTypes | A、 B、 Z Differential Output, Z signal open-collector output | | | | | | | | | | | | |
| | Poles | Programmable Fractional Frequency(using Incremental Coder) /1~131072P/R(using Absolute Encoder) | | | | | | | | | | | | |
| Position | Input Frequency | differential input: ≤500kHz (kpps); single-ended input: ≤200kHz (kpps) | | | | | | | | | | | | |
| | Instruction Mode | Pulse+Signal, CCW Pulse/CW Pulse, Two-phase A/ orthogonal Pulse | | | | | | | | | | | | |
| | Electronic Gear Ratio | 1~32767/1 ~ 32767 | | | | | | | | | | | | |
| Speed | Simulation Command Input | ±10VDC, Input Impedance 10kΩ | | | | | | | | | | | | |
| | Instructions Acceleration and Deceleration | Parameters Set | | | | | | | | | | | | |
| | Instructions Source | Analog、 Internal Speed Instructions | | | | | | | | | | | | |
| Torque | Simulation Command Input | -10V ~ +10V, Input Impedance 10kΩ | | | | | | | | | | | | |
| | Torque Restriction | Parameters Set | | | | | | | | | | | | |
| | Instructions Source | Analog、 Internal Speed Instructions | | | | | | | | | | | | |
| Special Functions | | ZRN 、 Gain Switch、 Mechanical Resonance Wave Trap, Sustaining Modbus Agreement | | | | | | | | | | | | |
| Surveillance Function | | Revolving Speed、 Current Position、 Positional Deviation、 Motor Torque、 Motor Current、 Instructions Pulse Frequency etc. | | | | | | | | | | | | |
| Defensive Function | | Overspeed、 Overvoltage、 Overcurrent、 Overload、 Abnormal Brake、 Abnormal Encoder、 Out of tolerance etc. | | | | | | | | | | | | |
| Feature | Speed Frequency Response | ≥300Hz | | | | | | | | | | | | |
| | Speed Fluctuation Rate | <±0.03%(load 0~100%) ; <±0.02%(power -15% ~ +10%) | | | | | | | | | | | | |
| | Speed Ratio | 1:5000 | | | | | | | | | | | | |

Servo Motor




Introduction of Servo Motor Models

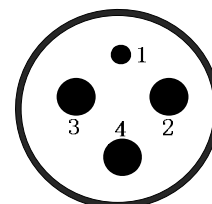


Please find the Wiring method of 40、60、80 and 90 series in related specification introduction.

Wiring Method of 110、130、150 and 180 Series

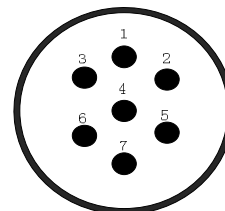
Wiring Method of Power Line:

| Winding Connection Line |  | U | V | W |
|-------------------------|---|---|---|---|
| Socket No. | 1 | 2 | 3 | 4 |



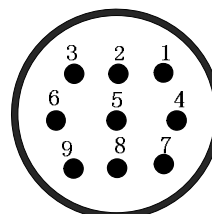
Wiring Method of Absolute Encoder:

| Power Supply | PE | E- | E+ | SD- | 0V | SD+ | +5V |
|--------------|----|----|----|-----|----|-----|-----|
| Socket No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 |



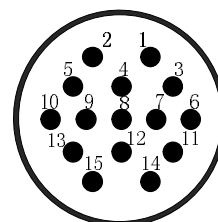
Wiring Method of Incremental Encoder:

| Power Supply | PE | +5V | 0V | A+ | B+ | Z+ | A- | B- | Z- |
|--------------|----|-----|----|----|----|----|----|----|----|
| Socket No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |




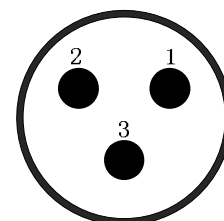
Wiring Method of Standard Incremental Encoder:

| Power Supply | PE | 5V | 0V | A+ | B+ | Z+ | A- | B- | Z- | U+ | V+ | W+ | U- | V- | W- |
|--------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Socket No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |



Wiring Method of Brake:

| Power Supply | VDC (Power Supply), Without polar connection requirement | |  |
|--------------|--|---|---|
| Socket No. | 1 | 2 | 3 |



Parameters of Safe Brake on 110 Socket:

Operating Voltage: 24VDC (-15%~+10%), Operating Current: ≤0.6A, Braking Torque: ≥ 8 N·m.

Parameters of Safe Brake on 130 Socket:

Operating Voltage: 24VDC (-15%~+10%), Operating Current: ≤0.6A, Braking Torque: ≥12N·m.

Parameters of Safe Brake on 150 Socket:

Operating Voltage: 100VDC (-15%~+10%), Operating Current: ≤0.4A, Braking Torque: ≥30N·m.

40 Series

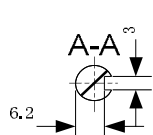
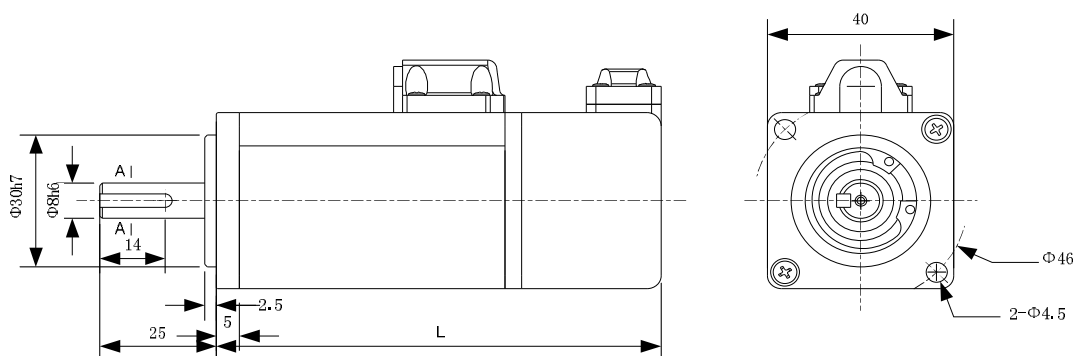
Parameters:

| Motor Model | 40MSL00230F | 40MSL00330F |
|-----------------------------------|--|------------------------|
| Rated Power (W) | 50 | 100 |
| Rated Line Voltage (V) | 220 | 220 |
| Rated Line Current(A) | 0.75 | 1.5 |
| Rated Speed(rpm) | 3000 | 3000 |
| Rated Torque(N·m) | 0.159 | 0.318 |
| Peak Torque(N·m) | 0.477 | 0.954 |
| Rotor Inertia(kg·m ²) | 0.025×10 ⁻⁴ | 0.046×10 ⁻⁴ |
| Lines of Encoder(PPR) | 2500 | |
| Motor Insulation Class | ClassB(130°C) | |
| Protection Level | IP65 | |
| Operating Environment | Temperature: -20°C ~ +50°C Humidity: Relative Humidity<90% (not including condensing condition) | |

Line Order of Encoder:

| Socket No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|-----------------|----|----|----|----|----|----|----|----|----|----|----|----|-----|----|----|
| Lead Definition | A+ | A- | B+ | B- | Z+ | Z- | U+ | U- | V+ | V- | W+ | W- | +5V | 0V | PE |

Installation Dimension:



| | | |
|--------|----------|----------|
| 规格Size | 0.159N·m | 0.318N·m |
| L(mm) | 77.5 | 95.5 |

60 Series

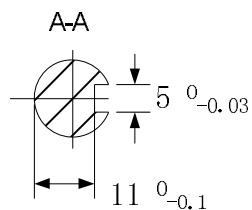
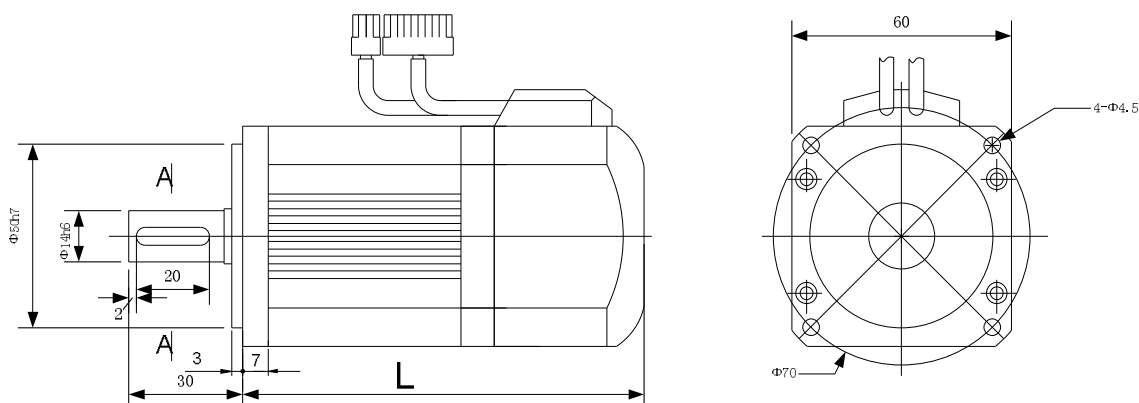
Parameters:

| Motor Model | 60MSL00630F | 60MSL01330F | 60MSL01930F |
|-----------------------------------|--|------------------------|------------------------|
| Rated Power (KW) | 0.2 | 0.4 | 0.6 |
| Rated Line Voltage (V) | 220 | 220 | 220 |
| Rated Line Current(A) | 1.5 | 2.8 | 3.5 |
| Rated Speed(rpm) | 3000 | 3000 | 3000 |
| Rated Torque(N·m) | 0.637 | 1.27 | 1.91 |
| Peak Torque(N·m) | 1.911 | 3.8 | 5.73 |
| Rotor Inertia(kg·m ²) | 0.17×10 ⁻⁴ | 0.302×10 ⁻⁴ | 0.438×10 ⁻⁴ |
| Lines of Encoder(PPR) | 2500 | | |
| Motor Insulation Class | ClassB(130°C) | | |
| Protection Level | IP64 | | |
| Operating Environment | Temperature: -20°C ~ +50°C Humidity: Relative Humidity<90% (not including condensing condition) | | |

Line Order of Encoder:

| Socket No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|-----------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Lead Definition | PE | 5V | 0V | B+ | Z- | U+ | Z+ | U- | A+ | V+ | W+ | V- | A- | B- | W- |

Installation Dimension:



| | | | |
|-------|----------|----------|----------|
| Size | 0.637N·m | 1.270N·m | 1.910N·m |
| L(mm) | 102 | 122 | 146 |

80 Series

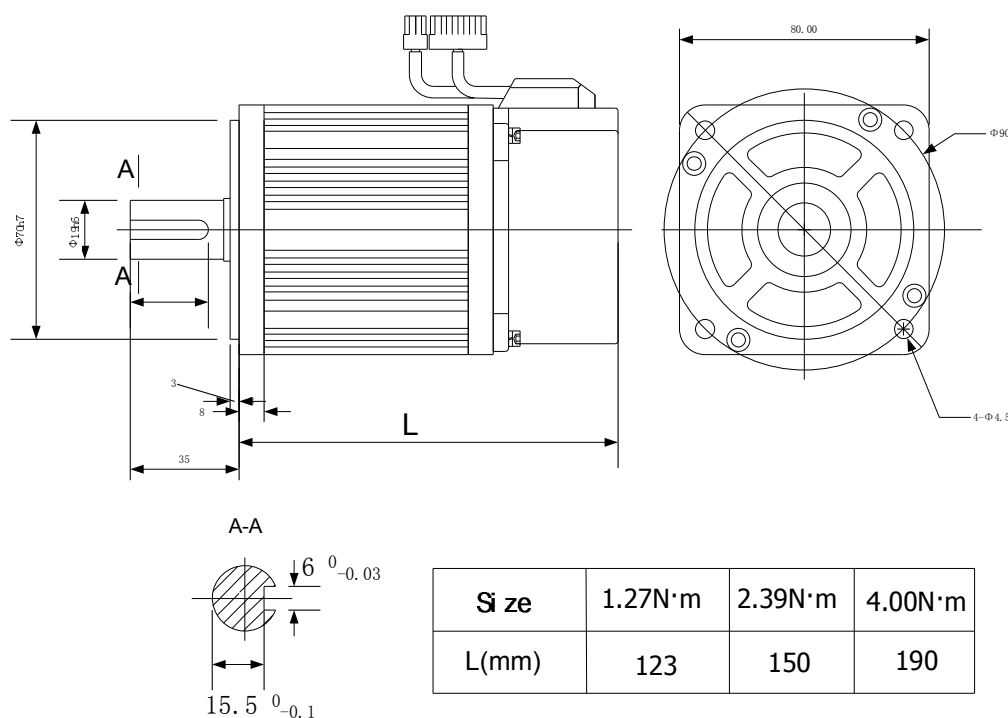
Parameters:

| Motor Model | 80MSL01330F | 80MSL02430F | 80MSL03520F | 80MSL04025F |
|-----------------------------------|--|----------------------|-----------------------|----------------------|
| Rated Power (KW) | 0.4 | 0.75 | 0.73 | 1.0 |
| Rated Line Voltage (V) | 220 | 220 | 220 | 220 |
| Rated Line Current(A) | 2.0 | 3.0 | 3.0 | 4.4 |
| Rated Speed(rpm) | 3000 | 3000 | 2000 | 3000 |
| Rated Torque(N·m) | 1.27 | 2.39 | 3.50 | 4.0 |
| Peak Torque(N·m) | 3.8 | 7.1 | 10.5 | 12 |
| Rotor Inertia(kg·m ²) | 1.32×10 ⁻⁴ | 2.4×10 ⁻⁴ | 2.63×10 ⁻⁴ | 3.5×10 ⁻⁴ |
| Lines of Encoder(PPR) | 2500 | | | |
| Motor Insulation Class | ClassB(130℃) | | | |
| Protection Level | IP65 | | | |
| Operating Environment | Temperature: -20℃ ~ +50℃ Humidity: Relative Humidity<90% (not including condensing condition) | | | |

Line Order of Encoder:

| Socket No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|-----------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Lead Definition | PE | 5V | 0V | B+ | Z- | U+ | Z+ | U- | A+ | V+ | W+ | V- | A- | B- | W- |

Installation Dimension:



90 Series

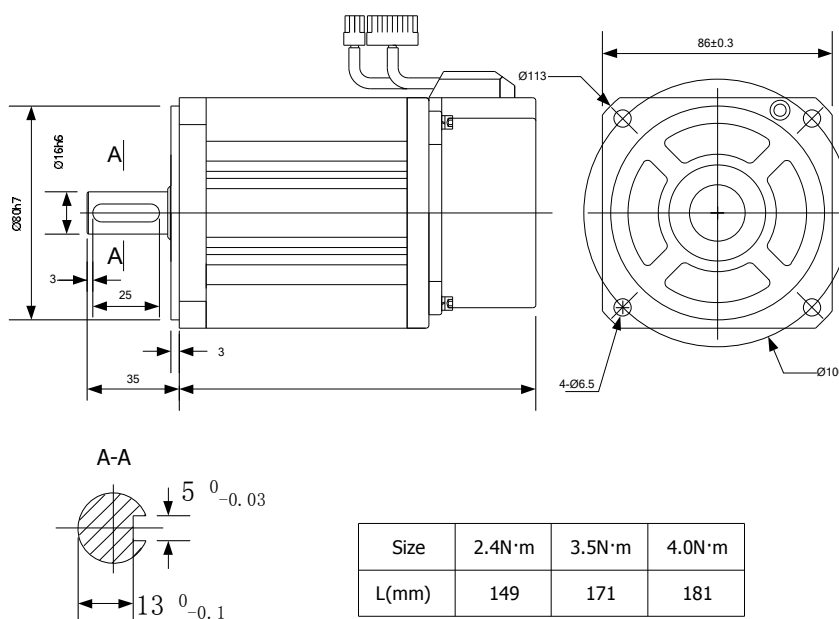
Parameters:

| Motor Model | 90MSL02430F | 90MSL03520F | 90MSL04025F |
|-----------------------------------|--|----------------------|----------------------|
| Rated Power (KW) | 0.75 | 0.73 | 1.0 |
| Rated Line Voltage (V) | 220 | 220 | 220 |
| Rated Line Current(A) | 3.0 | 3.0 | 4.0 |
| Rated Speed(rpm) | 3000 | 2000 | 2500 |
| Rated Torque(N·m) | 2.4 | 3.5 | 4.0 |
| Peak Torque(N·m) | 7.1 | 10.5 | 12.0 |
| Rotor Inertia(kg·m ²) | 2.45×10 ⁻⁴ | 3.4×10 ⁻⁴ | 3.7×10 ⁻⁴ |
| Lines of Encoder(PPR) | 2500 | | |
| Motor Insulation Class | ClassB(130°C) | | |
| Protection Level | IP65 | | |
| Operating Environment | Temperature: -20°C ~ +50°C Humidity: Relative Humidity<90% (not including condensing condition) | | |

Line Order of Encoder:

| Socket No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|-----------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Lead Definition | PE | 5V | 0V | B+ | Z- | U+ | Z+ | U- | A+ | V+ | W+ | V- | A- | B- | W- |

Installation Dimension:

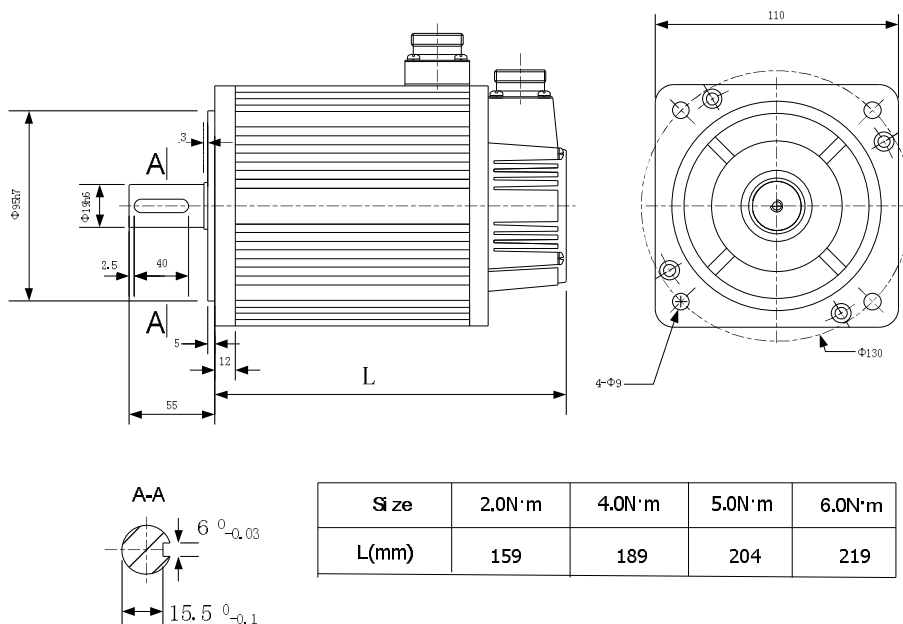


110 Series

Parameters:

| Motor Model | 110MSL 02030F | 110MSL 04020F | 110MSL 04030F | 110MSL 05020F | 110MSL 05030F | 110MSL 06020F | 110MSL 06030F |
|-----------------------------------|---|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| Rated Power (KW) | 0.6 | 0.8 | 1.2 | 1.0 | 1.5 | 1.2 | 1.8 |
| Rated Line Voltage (V) | 220 | 220 | 220 | 220 | 220 | 220 | 220 |
| Rated Line Current(A) | 2.5 | 3.5 | 5.0 | 5.0 | 6.0 | 4.5 | 6.0 |
| Rated Speed(rpm) | 3000 | 2000 | 3000 | 2000 | 3000 | 2000 | 3000 |
| Rated Torque(Nm) | 2.0 | 4.0 | 4.0 | 5.0 | 5.0 | 6.0 | 6.0 |
| Peak Torque(N·m) | 6.0 | 12 | 12 | 15 | 15 | 18 | 18 |
| Rotor Inertia(kg·m ²) | 0.31× 10 ⁻⁴ | 0.54× 10 ⁻⁴ | 0.54× 10 ⁻⁴ | 0.71× 10 ⁻⁴ | 0.63× 10 ⁻⁴ | 0.76× 10 ⁻⁴ | 0.76× 10 ⁻⁴ |
| Lines of Encoder(PPR) | 2500 | | | | | | |
| Motor Insulation Class | ClassB(130°C) | | | | | | |
| Protection Level | IP65 | | | | | | |
| Operating Environment | Temperature: -20°C ~+50°C Humidity: Relative Humidity<90% (not including condensing condition) | | | | | | |

Installation Dimension:

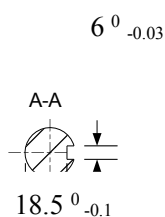
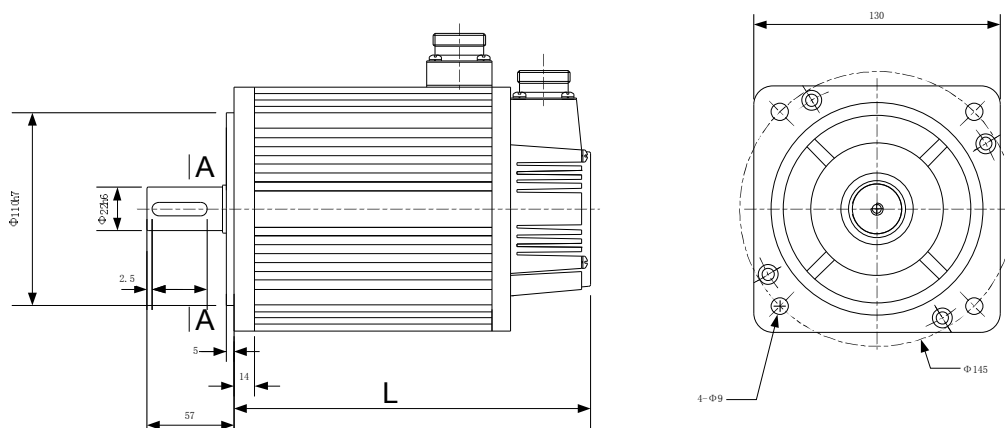


130 Series

Parameters:

| Motor Model | 130MSL 04025F | 130MSL 05025F | 130MSL 06025F | 130MS L07720 | 130MS L07725 | 130MS L1001 | 130MS L1001 | 130MS L10025 | 130MS L1501 | 130MS L15025 |
|-----------------------------------|---|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| Rated Power (KW) | 1.0 | 1.3 | 1.5 | 1.6 | 2.0 | 1.0 | 1.5 | 2.6 | 2.3 | 3.8 |
| Rated Line Voltage (V) | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 |
| Rated Line Current(A) | 4.0 | 5.0 | 6.0 | 6.0 | 7.5 | 4.5 | 6.0 | 10 | 9.5 | 13.5 |
| Rated Speed(rpm) | 2500 | 2500 | 2500 | 2000 | 2500 | 1000 | 1500 | 2500 | 1500 | 2500 |
| Rated Torque(N·m) | 4.0 | 5.0 | 6.0 | 7.7 | 7.7 | 10 | 10 | 10 | 15 | 15 |
| Peak Torque(N·m) | 12 | 15 | 18 | 22 | 22 | 20 | 25 | 25 | 30 | 30 |
| Rotor Inertia(kg·m ²) | 0.85× 10 ⁻³ | 1.06× 10 ⁻³ | 1.26× 10 ⁻³ | 1.58× 10 ⁻³ | 1.53× 10 ⁻³ | 1.94× 10 ⁻³ | 1.94× 10 ⁻³ | 1.94× 10 ⁻³ | 2.77× 10 ⁻³ | 2.77× 10 ⁻³ |
| Lines of Encoder(PPR) | 2500 | | | | | | | | | |
| Motor Insulation Class | ClassB(130°C) | | | | | | | | | |
| Protection Level | IP65 | | | | | | | | | |
| Operating Environment | Temperature: -20°C ~+50°C Humidity: Relative Humidity<90% (not including condensing condition) | | | | | | | | | |

Installation Dimension:



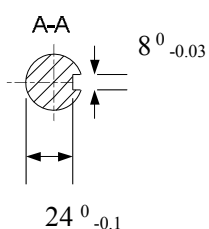
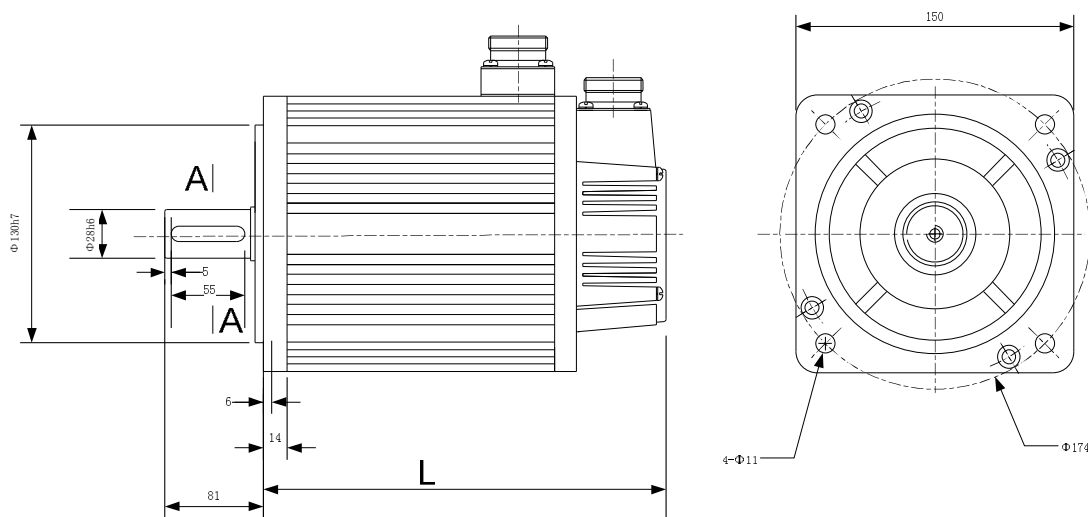
| Size | 4.0 N·m | 5.0 N·m | 6.0 N·m | 7.7 N·m | 10.0N·m | | | 15.0N·m | |
|-----------|------------|------------|------------|------------|---------|---------|---------|---------|---------|
| | | | | | 1000rpm | 1500rpm | 2500rpm | 1500rpm | 2500rpm |
| L (mm) | 166 | 171 | 179 | 192 | 213 | 213 | 209 | 241 | 231 |

150 Series

Parameters:

| Motor Model | 150MSL15025F | 150MSL18020F | 150MSL23020F | 150MSL27020F |
|-----------------------------------|---|-----------------------|-----------------------|------------------------|
| Rated Power (KW) | 3.8 | 3.6 | 4.7 | 5.5 |
| Rated Line Voltage (V) | 220 | 220 | 220 | 220 |
| Rated Line Current(A) | 16.5 | 16.5 | 20.5 | 20.5 |
| Rated Speed(rpm) | 2500 | 2000 | 2000 | 2000 |
| Rated Torque(N·m) | 15.0 | 18.0 | 23.0 | 27.0 |
| Peak Torque(N·m) | 45.0 | 54.0 | 69.0 | 81.0 |
| Rotor Inertia(kg·m ²) | 6.15×10 ⁻³ | 6.33×10 ⁻³ | 8.94×10 ⁻³ | 11.19×10 ⁻³ |
| Lines of Encoder(PPR) | 2500 | | | |
| Motor Insulation class | ClassB(130℃) | | | |
| Protection Level | IP65 | | | |
| Operating Environment | Temperature: -20℃ ~+50℃ Humidity: Relative Humidity<90% (not including condensing condition) | | | |

Installation Dimension:



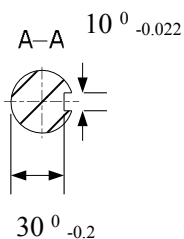
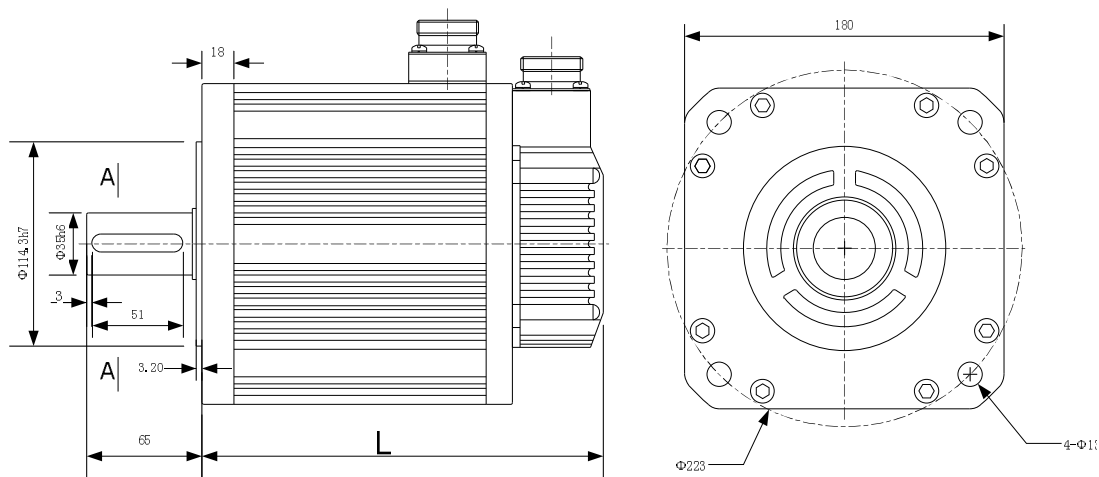
| Size | 15.0N·m | 18.0N·m | 23.0N·m | 27.0N·m |
|-------|---------|---------|---------|---------|
| L(mm) | 231 | 250 | 280 | 306 |

180 Series

Parameters:

| Motor Model | 180MSL 17215F | | 180MSL 19015F | | 180MSL 21520F | | 180MSL 27015F | | 180MSL 35015F | | 180MSL 48015F | |
|-----------------------------------|---|-----|----------------------|-----|----------------------|-----|----------------------|-----|----------------------|-----|----------------------|-----|
| Rated Power (KW) | 2.7 | | 3.0 | | 4.5 | | 4.3 | | 5.5 | | 7.5 | |
| Rated Line Voltage (V) | 220 | 380 | 220 | 380 | 220 | 380 | 220 | 380 | 220 | 380 | 220 | 380 |
| Rated Line Current(A) | 10.5 | 6.5 | 12 | 7.5 | 16 | 9.5 | 16 | 10 | 19 | 12 | 32 | 20 |
| Rated Speed(rpm) | 1500 | | 1500 | | 2000 | | 1500 | | 1500 | | 1500 | |
| Rated Torque (N·m) | 17.2 | | 19 | | 21.5 | | 27 | | 35 | | 48 | |
| Peak Torque(N·m) | 43 | | 47 | | 53 | | 67 | | 70 | | 96 | |
| Rotor Inertia(kg·m ²) | 3.4×10 ⁻³ | | 3.8×10 ⁻³ | | 4.7×10 ⁻³ | | 6.1×10 ⁻³ | | 8.6×10 ⁻³ | | 9.5×10 ⁻³ | |
| Lines of Encoder(PPR) | 2500 | | | | | | | | | | | |
| Motor Insulation Class | ClassB(130°C) | | | | | | | | | | | |
| Protection Level | IP65 | | | | | | | | | | | |
| Operating Environment | Temperature: -20°C ~+50°C Humidity: Relative Humidity<90% (not including condensing condition) | | | | | | | | | | | |

Installation Dimension:



| | | | | | | |
|-------|---------|---------|---------|---------|---------|---------|
| Size | 17.2N·m | 19.0N·m | 21.5N·m | 27.0N·m | 35.0N·m | 48.0N·m |
| L(mm) | 226 | 232 | 243 | 262 | 292 | 346 |

Matching Scheme for EP1

| Motor Models | Rated Torque (N·m) | Rated Speed (rpm) | Rated Power (KW) | Adaptive EP1 Model | | |
|--------------|-----------------------|----------------------|---------------------|--------------------|-------|-------|
| | | | | TL08F | TL12F | TL16F |
| 60MSL00630 | 0.6 | 3000 | 0.2 | ● | | |
| 60MSL01330 | 1.3 | 3000 | 0.4 | ● | | |
| 60MSL01930 | 1.9 | 3000 | 0.6 | ● | | |
| 80MSL01330 | 1.3 | 3000 | 0.4 | ● | | |
| 80MSL02430 | 2.4 | 3000 | 0.75 | ● | ○ | |
| 80MSL03520 | 3.5 | 2000 | 0.73 | ● | ○ | |
| 80MSL04025 | 4 | 2500 | 1.0 | ○ | ● | |
| 90MSL02430 | 2.4 | 3000 | 0.75 | ● | ○ | |
| 90MSL03520 | 3.5 | 2000 | 0.7 | ● | ○ | |
| 90MSL04025 | 4 | 2500 | 1.0 | ○ | ● | |
| 110MSL02030 | 2 | 3000 | 0.6 | ● | | |
| 110MSL04020 | 4 | 2000 | 0.8 | ● | ○ | |
| 110MSL04030 | 4 | 3000 | 1.2 | ○ | ● | |
| 110MSL05020 | 5 | 2000 | 1.0 | | ● | |
| 110MSL05030 | 5 | 3000 | 1.5 | | ○ | ● |
| 110MSL06020 | 6 | 2000 | 1.2 | | ● | ○ |
| 110MSL06030 | 6 | 3000 | 1.8 | | | ● |
| 130MSL04025 | 4 | 2500 | 1.0 | | ● | ○ |
| 130MSL05025 | 5 | 2500 | 1.3 | | ○ | ● |
| 130MSL06025 | 6 | 2500 | 1.5 | | ○ | ● |
| 130MSL07720 | 7.7 | 2000 | 1.5 | | | ● |
| 130MSL07725 | 7.7 | 2500 | 2.0 | | | ● |
| 130MSL07730 | 7.7 | 3000 | 2.3 | | | ○ |
| 130MSL10010 | 10 | 1000 | 1.0 | | ● | ○ |
| 130MSL10015 | 10 | 1500 | 1.5 | | | ● |
| 130MSL10025 | 10 | 2500 | 2.5 | | | ○ |
| 130MSL15015 | 15 | 1500 | 2.3 | | | ○ |
| 130MSL15025 | 15 | 2500 | 3.8 | | | |
| 150MSL15025 | 15 | 2500 | 3.8 | | | |
| 150MSL18020 | 18 | 2000 | 3.6 | | | |
| 150MSL23020 | 23 | 2000 | 4.7 | | | |
| 150MSL27020 | 27 | 2000 | 5.5 | | | |
| 180MSL17215 | 17.2 | 1500 | 2.7 | | | |
| 180MSL19015 | 19 | 1500 | 3.0 | | | |
| 180MSL21520 | 21.5 | 2000 | 4.5 | | | |
| 180MSL27015 | 27 | 1500 | 4.3 | | | |
| 180MSL35015 | 35 | 1500 | 5.5 | | | |
| 180MSL48015 | 48 | 1500 | 7.2 | | | |

●Better adaptation, ○Average adaptation。

Matching Scheme for EP1C

| Motor Models | Rated Torque (N·m) | Rated Speed (rpm) | Rated Power (KW) | Adaptive EP1C Model | | | | | |
|--------------|--------------------|-------------------|------------------|---------------------|-------|-------|-------|-------|-------|
| | | | | TL05F | TL10F | TL15F | TL25F | TL35F | TL55F |
| 40MSL00230 | 0.16 | 3000 | 0.05 | ● | | | | | |
| 40MSL00330 | 0.32 | 3000 | 0.1 | ● | | | | | |
| 60MSL00630 | 0.6 | 3000 | 0.2 | ● | | | | | |
| 60MSL01330 | 1.3 | 3000 | 0.4 | ● | | | | | |
| 60MSL01930 | 1.9 | 3000 | 0.6 | ● | ○ | | | | |
| 80MSL01330 | 1.3 | 3000 | 0.4 | ● | | | | | |
| 80MSL02430 | 2.4 | 3000 | 0.75 | | ● | | | | |
| 80MSL03520 | 3.5 | 2000 | 0.73 | | ● | | | | |
| 80MSL04025 | 4 | 2500 | 1.0 | | ● | ○ | | | |
| 90MSL02430 | 2.4 | 3000 | 0.75 | | ● | | | | |
| 90MSL03520 | 3.5 | 2000 | 0.7 | | ● | | | | |
| 90MSL04025 | 4 | 2500 | 1.0 | | ● | | | | |
| 110MSL02030 | 2 | 3000 | 0.6 | ○ | ● | | | | |
| 110MSL04020 | 4 | 2000 | 0.8 | | ● | | | | |
| 110MSL04030 | 4 | 3000 | 1.2 | | ○ | ● | | | |
| 110MSL05020 | 5 | 2000 | 1.0 | | ● | ○ | | | |
| 110MSL05030 | 5 | 3000 | 1.5 | | | ● | | | |
| 110MSL06020 | 6 | 2000 | 1.2 | | ○ | ● | | | |
| 110MSL06030 | 6 | 3000 | 1.8 | | | ○ | ● | | |
| 130MSL04025 | 4 | 2500 | 1.0 | | ● | ○ | | | |
| 130MSL05025 | 5 | 2500 | 1.3 | | ○ | ● | | | |
| 130MSL06025 | 6 | 2500 | 1.5 | | | ● | | | |
| 130MSL07720 | 7.7 | 2000 | 1.5 | | | ● | | | |
| 130MSL07725 | 7.7 | 2500 | 2.0 | | | | ● | | |
| 130MSL07730 | 7.7 | 3000 | 2.3 | | | | ● | | |
| 130MSL10010 | 10 | 1000 | 1.0 | | ○ | ● | | | |
| 130MSL10015 | 10 | 1500 | 1.5 | | | ● | ○ | | |
| 130MSL10025 | 10 | 2500 | 2.5 | | | | ● | | |
| 130MSL15015 | 15 | 1500 | 2.3 | | | | ● | | |
| 130MSL15025 | 15 | 2500 | 3.8 | | | | | ● | ○ |
| 150MSL15025 | 15 | 2500 | 3.8 | | | | | ● | ○ |
| 150MSL18020 | 18 | 2000 | 3.6 | | | | | ● | ○ |
| 150MSL23020 | 23 | 2000 | 4.7 | | | | | | ● |
| 150MSL27020 | 27 | 2000 | 5.5 | | | | | | ● |
| 180MSL17215 | 17.2 | 1500 | 2.7 | | | | | ● | ○ |
| 180MSL19015 | 19 | 1500 | 3.0 | | | | | ● | ○ |
| 180MSL21520 | 21.5 | 2000 | 4.5 | | | | | | ● |
| 180MSL27015 | 27 | 1500 | 4.3 | | | | | | ● |
| 180MSL35015 | 35 | 1500 | 5.5 | | | | | | ● |
| 180MSL48015 | 48 | 1500 | 7.2 | | | | | | ○ |

●Better adaptation, ○Average adaptation.

Matching Scheme for EP2

| Motor Models | Rated Torque (N·m) | Rated Speed (rpm) | Rated Power (KW) | Adaptive EP2 Model | | |
|--------------|-----------------------|----------------------|---------------------|--------------------|-------|-------|
| | | | | TL08F | TL12F | TL16F |
| 60MSL00630 | 0.6 | 3000 | 0.2 | ● | | |
| 60MSL01330 | 1.3 | 3000 | 0.4 | ● | | |
| 60MSL01930 | 1.9 | 3000 | 0.6 | ● | | |
| 80MSL01330 | 1.3 | 3000 | 0.4 | ● | | |
| 80MSL02430 | 2.4 | 3000 | 0.75 | ● | ○ | |
| 80MSL03520 | 3.5 | 2000 | 0.73 | ● | ○ | |
| 80MSL04025 | 4 | 2500 | 1.0 | ○ | ● | |
| 90MSL02430 | 2.4 | 3000 | 0.75 | ● | ○ | |
| 90MSL03520 | 3.5 | 2000 | 0.7 | ● | ○ | |
| 90MSL04025 | 4 | 2500 | 1.0 | ○ | ● | |
| 110MSL02030 | 2 | 3000 | 0.6 | ● | | |
| 110MSL04020 | 4 | 2000 | 0.8 | ● | ○ | |
| 110MSL04030 | 4 | 3000 | 1.2 | ○ | ● | |
| 110MSL05020 | 5 | 2000 | 1.0 | | ● | |
| 110MSL05030 | 5 | 3000 | 1.5 | | ○ | ● |
| 110MSL06020 | 6 | 2000 | 1.2 | | ● | ○ |
| 110MSL06030 | 6 | 3000 | 1.8 | | | ● |
| 130MSL04025 | 4 | 2500 | 1.0 | | ● | ○ |
| 130MSL05025 | 5 | 2500 | 1.3 | | ○ | ● |
| 130MSL06025 | 6 | 2500 | 1.5 | | ○ | ● |
| 130MSL07720 | 7.7 | 2000 | 1.5 | | | ● |
| 130MSL07725 | 7.7 | 2500 | 2.0 | | | ● |
| 130MSL07730 | 7.7 | 3000 | 2.3 | | | ○ |
| 130MSL10010 | 10 | 1000 | 1.0 | | ● | ○ |
| 130MSL10015 | 10 | 1500 | 1.5 | | | ● |
| 130MSL10025 | 10 | 2500 | 2.5 | | | ○ |
| 130MSL15015 | 15 | 1500 | 2.3 | | | ○ |
| 130MSL15025 | 15 | 2500 | 3.8 | | | |
| 150MSL15025 | 15 | 2500 | 3.8 | | | |
| 150MSL18020 | 18 | 2000 | 3.6 | | | |
| 150MSL23020 | 23 | 2000 | 4.7 | | | |
| 150MSL27020 | 27 | 2000 | 5.5 | | | |
| 180MSL17215 | 17.2 | 1500 | 2.7 | | | |
| 180MSL19015 | 19 | 1500 | 3.0 | | | |
| 180MSL21520 | 21.5 | 2000 | 4.5 | | | |
| 180MSL27015 | 27 | 1500 | 4.3 | | | |
| 180MSL35015 | 35 | 1500 | 5.5 | | | |
| 180MSL48015 | 48 | 1500 | 7.2 | | | |

●Better adaptation, ○Average adaptation。

Matching Scheme for EP3-GL

| Motor Models | Rated Torque (N·m) | Rated Speed (rpm) | Rated Power (KW) | Adaptive EP3-GL Model | | | | | | | |
|--------------|--------------------|-------------------|------------------|-----------------------|-------|-------|-------|-------|-------|-------|-------|
| | | | | GL1A0 | GL1A8 | GL3A0 | GL7A5 | GL120 | GL160 | GL190 | GL240 |
| 40MSL00230 | 0.16 | 3000 | 0.05 | ● | ○ | | | | | | |
| 40MSL00330 | 0.32 | 3000 | 0.1 | ● | ○ | | | | | | |
| 60MSL00630 | 0.6 | 3000 | 0.2 | | ● | ○ | | | | | |
| 60MSL01330 | 1.3 | 3000 | 0.4 | | | ● | ○ | | | | |
| 60MSL01930 | 1.9 | 3000 | 0.6 | | | ○ | ● | | | | |
| 80MSL01330 | 1.3 | 3000 | 0.4 | | | ● | | | | | |
| 80MSL02430 | 2.4 | 3000 | 0.75 | | | | ● | | | | |
| 80MSL03520 | 3.5 | 2000 | 0.73 | | | | ● | | | | |
| 80MSL04025 | 4 | 2500 | 1.0 | | | | ● | | | | |
| 90MSL02430 | 2.4 | 3000 | 0.75 | | | | ● | | | | |
| 90MSL03520 | 3.5 | 2000 | 0.7 | | | | ● | | | | |
| 90MSL04025 | 4 | 2500 | 1.0 | | | | ● | | | | |
| 110MSL02030 | 2 | 3000 | 0.6 | | | ○ | ● | | | | |
| 110MSL04020 | 4 | 2000 | 0.8 | | | | ● | | | | |
| 110MSL04030 | 4 | 3000 | 1.2 | | | | ○ | ● | | | |
| 110MSL05020 | 5 | 2000 | 1.0 | | | | ● | | | | |
| 110MSL05030 | 5 | 3000 | 1.5 | | | | ○ | ● | | | |
| 110MSL06020 | 6 | 2000 | 1.2 | | | | ○ | ● | | | |
| 110MSL06030 | 6 | 3000 | 1.8 | | | | | ○ | ● | | |
| 130MSL04025 | 4 | 2500 | 1.0 | | | | ● | ○ | | | |
| 130MSL05025 | 5 | 2500 | 1.3 | | | | ○ | ● | | | |
| 130MSL06025 | 6 | 2500 | 1.5 | | | | | ● | | | |
| 130MSL07720 | 7.7 | 2000 | 1.5 | | | | | ● | ○ | | |
| 130MSL07725 | 7.7 | 2500 | 2.0 | | | | | | ● | ○ | |
| 130MSL07730 | 7.7 | 3000 | 2.3 | | | | | | ○ | ● | |
| 130MSL10010 | 10 | 1000 | 1.0 | | | | ○ | ● | | | |
| 130MSL10015 | 10 | 1500 | 1.5 | | | | | ● | ○ | | |
| 130MSL10025 | 10 | 2500 | 2.5 | | | | | | ○ | ● | |
| 130MSL15015 | 15 | 1500 | 2.3 | | | | | | ○ | ● | |
| 130MSL15025 | 15 | 2500 | 3.8 | | | | | | | ○ | ● |
| 150MSL15025 | 15 | 2500 | 3.8 | | | | | | | ○ | ● |
| 150MSL18020 | 18 | 2000 | 3.6 | | | | | | | ○ | ● |
| 150MSL23020 | 23 | 2000 | 4.7 | | | | | | | | ● |
| 150MSL27020 | 27 | 2000 | 5.5 | | | | | | | | ● |
| 180MSL17215 | 17.2 | 1500 | 2.7 | | | | | | | ● | |
| 180MSL19015 | 19 | 1500 | 3.0 | | | | | | | ● | |
| 180MSL21520 | 21.5 | 2000 | 4.5 | | | | | | | | ● |
| 180MSL27015 | 27 | 1500 | 4.3 | | | | | | | | ● |
| 180MSL35015 | 35 | 1500 | 5.5 | | | | | | | | ● |
| 180MSL48015 | 48 | 1500 | 7.2 | | | | | | | | ○ |

●Better adaptation, ○Average adaptation.

Matching Scheme for EP3-GH

| Motor Models | Rated Torque (N·m) | Rated Speed (rpm) | Rated Power (KW) | Adaptive EP3-GH Model | | | | |
|--------------|--------------------|-------------------|------------------|-----------------------|-------|-------|-------|-------|
| | | | | GH3A5 | GH5A4 | GH8A5 | GH130 | GH170 |
| 110MSH02030 | 2 | 3000 | 0.6 | ● | | | | |
| 110MSH04030 | 4 | 3000 | 1.2 | ○ | ● | | | |
| 110MSH05030 | 5 | 3000 | 1.5 | | ● | ○ | | |
| 110MSH06020 | 6 | 2000 | 1.2 | | ● | | | |
| 110MSH06030 | 6 | 3000 | 1.8 | | ○ | ● | | |
| 130MSH04025 | 4 | 2500 | 1.0 | ● | ○ | | | |
| 130MSH05025 | 5 | 2500 | 1.3 | | ● | | | |
| 130MSH06025 | 6 | 2500 | 1.5 | | ● | | | |
| 130MSH07720 | 7.7 | 2000 | 1.5 | | ● | ○ | | |
| 130MSH07725 | 7.7 | 2500 | 2.0 | | | ● | | |
| 130MSH07730 | 7.7 | 3000 | 2.3 | | | ○ | ● | |
| 130MSH10015 | 10 | 1500 | 1.5 | | ● | ○ | | |
| 130MSH10025 | 10 | 2500 | 2.5 | | | ○ | ● | |
| 130MSH15015 | 15 | 1500 | 2.3 | | | ○ | ● | |
| 130MSH15025 | 15 | 2500 | 3.8 | | | | ○ | ● |
| 150MSH15025 | 15 | 2500 | 3.8 | | | | ○ | ● |
| 150MSH18020 | 18 | 2000 | 3.6 | | | | ○ | ● |
| 150MSH23020 | 23 | 2000 | 4.6 | | | | | ● |
| 150MSH27020 | 27 | 2000 | 5.4 | | | | | ● |
| 180MSH15020 | 15 | 2000 | 3.0 | | | | ● | |
| 180MSH17215 | 17.2 | 1500 | 2.7 | | | | ● | |
| 180MSH19015 | 19 | 1500 | 3.0 | | | | ● | |
| 180MSH20020 | 20 | 2000 | 4.0 | | | | | ● |
| 180MSH21520 | 21.5 | 2000 | 4.5 | | | | | ● |
| 180MSH25020 | 25 | 2000 | 5.0 | | | | | ● |
| 180MSH27010 | 27 | 1000 | 2.7 | | | | ● | |
| 180MSH27015 | 27 | 1500 | 4.3 | | | | | ● |
| 180MSH30010 | 30 | 1000 | 3.0 | | | | ● | |
| 180MSH35010 | 35 | 1000 | 3.5 | | | | ○ | ● |
| 180MSH35015 | 35 | 1500 | 5.5 | | | | | ● |
| 180MSH40010 | 40 | 1000 | 4.0 | | | | | ● |
| 180MSH48015 | 48 | 1500 | 7.2 | | | | | ○ |

●Better adaptation, ○Average adaptation。

Selection reference for AC Servo Driver series

| No. | Series | Main features |
|-----|--------|--|
| 1 | | |
| 2 | EP1 | Much improved on the basis of EP100 series, the second generation Servo driver fits for situations of abundant requirement and supports position control (pulse mode) . |
| 3 | EP2 | Much improved on the basis of EP100 series, the second generation Servo driver fits for situations of abundant requirement and supports position control (pulse mode) , speed control (analogue), and torque control (analogue). |
| 4 | EP1C | With wider power range and optimized structure, the third generation Servo driver offers USB interface in order to make customers debug conveniently and supports position control (pulse mode) . |
| 5 | EP3 | With wider power range, optimized structure, and simple built-in PLC function, the third generation Servo driver offers USB interface and support 220VAC or 380VAC input. The feedback mode is 2500 line incremental encoder or 17 bit absolute encoder which could support 16 bit current sampling and 16 bit external analogue sampling accuracy. Thus, it owns advantages of strong overload capacity, fast response, easy operation . EP3 series supports position control (pulse mode) , speed control (analogue), and torque control (analogue). |