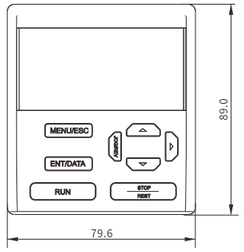
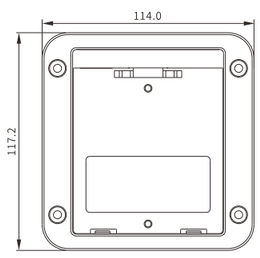
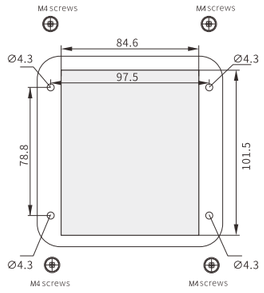
Panel Dimensions (unit : mm)



Panel Mounting Bracket Drawing (unit : mm)



Panel Mounting Bracket



Panel Mounting Bracket Instruction

The gray areas are the cut-out sections. The central cut-out measures 84.6 × 101.5 mm, and the four corner cut-outs are circular with a diameter of 4.34 mm. M4 screws and nuts are inserted into these cut-outs to secure the bracket to the door panel.

06

Stepper System

Fieldbus Stepper | RS485Integrated Drive & Control Stepper

Pulse-type Stepper | Stepper Motor

Bus type stepping driver

DP3C closed-loop bus stepping driver

- Integrating EtherCAT bus technology
- Fast response
- Strong anti-interference ability
- Significantly improved performance

DP3CL open loop bus stepping driver

- Excellent value
- Low cost while retaining the high performance and stability of DP3C

Integrating EtherCAT bus technology, the communication is faster

Support COE (CANopen over EtherCAT) protocol, conform to the CiA402 standard and support 32 axes. Support the master stationwith standard EtherCAT protocol. The communication cycle between the master station and the slave station can reach 32 axes 1ms at most.

Simple wiring and convenient equipment maintenance

A network cable replaces the traditional pulse direction signal cable, and is equipped with power cable and encoder cable, making the wiring simpler. It can greatly reduce the cable cost, labor cost and maintenance cost.

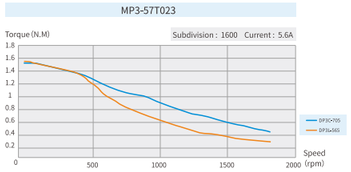
Higher reliability and anti-interference

Relying on the low bus load and point-to-point physical layer of EtherCAT bus, it can greatly suppress the generation of interference and clutter, and significantly improve the reliability and anti-interference ability of the system.

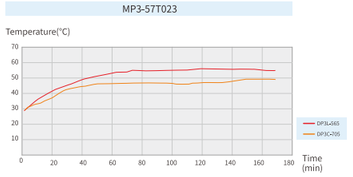
A new generation of control algorithm with better performance

EtherCAT bus technology combined with the latest control algorithm, greatly improves the performance

The torque is increased, which significantly improves the high-speed performance of the motor, up to 2000rpm.



The motor runs more smoothly and the temperature ising is significantly reduced



Application scenario

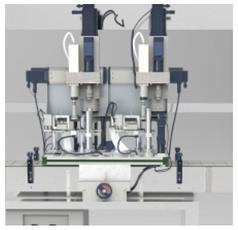
DP3C,DP3CL series bus stepping driver

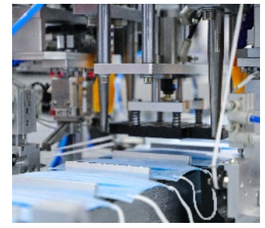
It is suitable for electronics, laser and occasions requiring multi-axis control.

01 Stripping machine
02 Marking machine
03 Graph plotter
04 Medical equipment
05 Electronic processing equipment
06 Engraving machine
07 Laser machine
08 Cutting machine
09 Numerical control machine
10 Automatic assembly equipment

Graph plotter

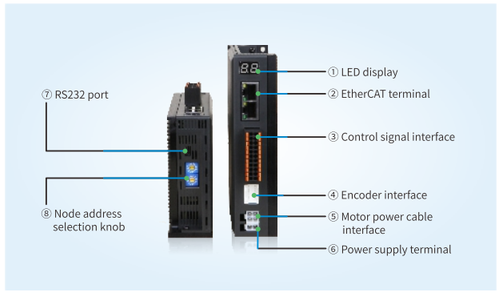
Filling machine


Capping machine

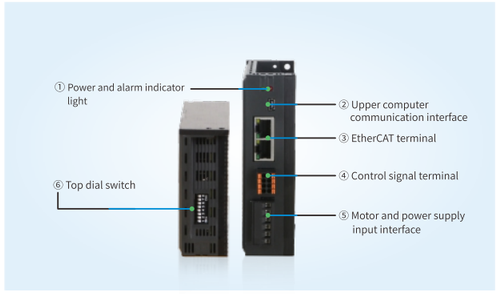

Mask machine

Hardware interface

DP3C series



DP3CL series

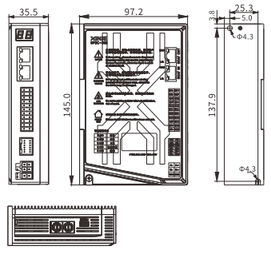


Driver specification

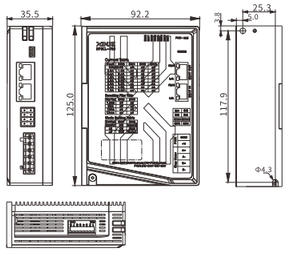
Driver model		DP3C-305	DP3C-705	DP3C-808	DP3CL-305	DP3CL-705	DP3CL-808	DP3CL-808A
Input power supply voltage (VDC)		DC20~50	DC20~50	DC20~80	DC20~50	DC20~50	DC20~80	AC20~80 DC20~110
Recommended power supply voltage(VDC)		24~36	57motor recommended 24~36；86 or high-speed motor recommend48V	48Above	24~36	57motor recommended 24~36；86 or high-speed motor recommend48V	48Above	
Using environment(A)		1~3	1~7	1~8.4	1~3	1~7	1~8.4	
Adaptive motor (base)		42	57/60	86	42	57/60	86	
External dimension (mm)		97.2*145.0*35.5			92.2*125.0*35.5			
Input signal		Alarm output, in place output, brake signal output, user-defined output			Origin input, positive/negative limit, alarm clear, user-defined input			
Output signal		Alarm output, brake signal output, user-defined output			Alarm output, brake signal output, user-defined output			
Alarm function		Over current, over voltage, out of tolerance, communication error, etc						
Debugging software		Xinje stepping driver software						
Using environment	Use occasion	Try to avoid dust, oil mist and corrosive gas. Combustible gas and conductive dust are prohibited in places with high humidity and strong vibration						
	Ambient temperature	0℃～50℃						
	Max working temperature	60℃						
	Humidity	40%～90% RH(no condensation or water droplets)						
	Vibration	5.9m/s² Max						
	Storage temperature	－20℃～65℃						

Driver dimension (Unit: mm)

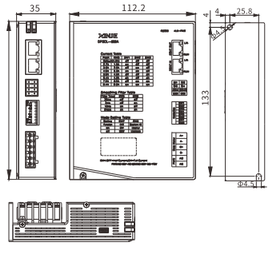
DP3C-305/DP3C-705/DP3C-808



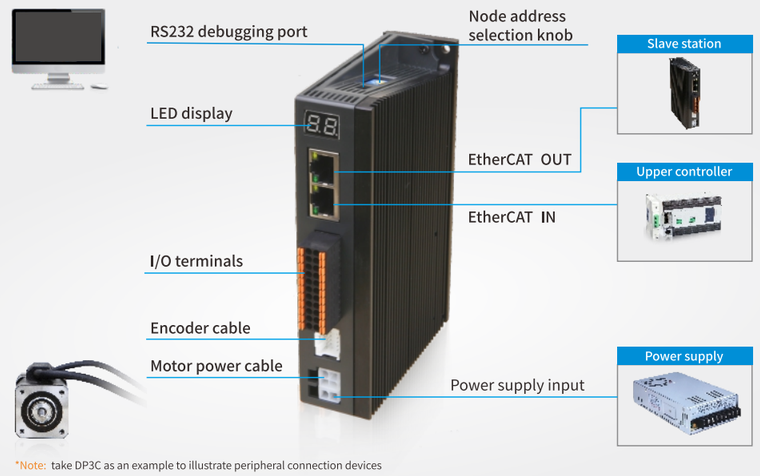
DP3CL-305/DP3CL-705/DP3CL-808



DP3CL-808A

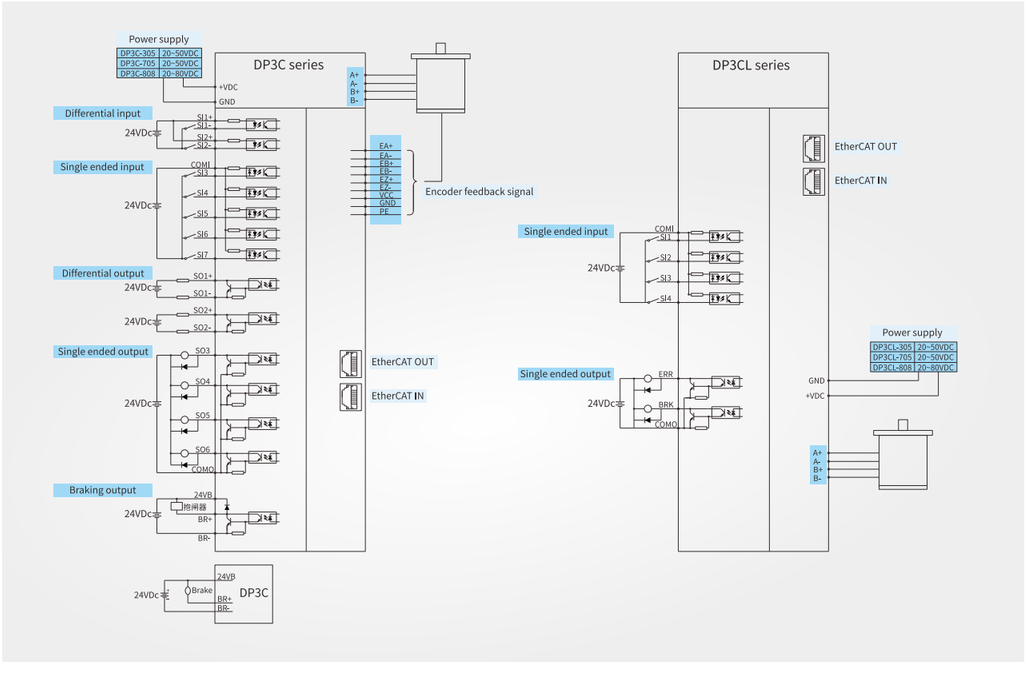


Driver peripheral circuit



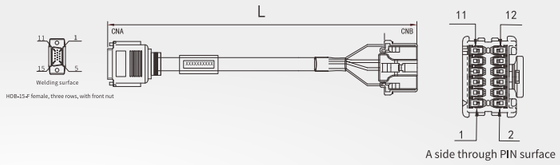
*Note: take DP3C as an example to illustrate peripheral connection devices

Driver wiring diagram



Accessories

Encoder cable

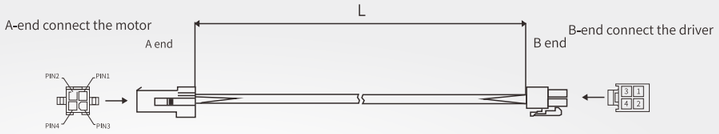


CNAside	1	2	3	11	12	13
Color	Blue	Yellow	Yellow black	Green	Green black	Blue black
Definition	A+	VCC	GND	B+	B-	A-
CNBside	11	5	6	9	10	12

*Note: If Z signal output is required, please use encoder cable [CP-MD-Z-length].

Model	Length L(m)
CP-MD-2	2
CP-MD-3	3
CP-MD-5	5
CP-MD-8	8
CP-MD-10	10
CP-MD-12	12
CP-MD-16	16
CP-MD-20	20

Power cable



A end PIN	1	2	3	4
Definition	B+	A+	A-	B-
Color	Black	Brown	Blue	Yellow green
B end PIN	2	1	3	4

*Note: For customers who want to make cable by themselves, they can choose JAMP-M4-P4 accessory package, which contains the terminals of driver and motor, and can press the cables by themselves. If you need this bus driver with open-loop motor, please choose JAMP-M4 accessories, including the driver terminal, which can press the cable by yourself.

Model	Length L(m)
CM-MP07-2	2
CM-MP07-3	3
CM-MP07-5	5
CM-MP07-8	8
CM-MP07-10	10
CM-MP07-12	12
CM-MP07-16	16
CM-MP07-20	20

EtherCAT bus cable

Model	Length (m)
JC-CB-0P1	0.1
JC-CB-0P2	0.2
JC-CB-0P3	0.3
JC-CB-0P5	0.5
JC-CB-1	1
JC-CB-3	3
JC-CB-5	5
JC-CB-10	10
JC-CB-20	20

Power supply cable

Each driver will be delivered with a power cable for free. For additional needs, the purchase models are as follows:

Model	Length (m)
JC-PM-20	2

Bus-type Stepper Drive

DP3C1 Series Closed-loop EtherCAT Bus Stepper Drive

- **Compact Design, Space-saving:**
  Thin and compact body, effectively saves control cabinet installation volume, better suited for high-density layout requirements.
- **Convenient Wiring, Efficient Maintenance:**
  Optimized wiring method, significantly improves wiring efficiency, reduces maintenance time, and lowers operating costs.
- **Intelligent Current Regulation, Stable Temperature Control:**
  Real-time current adjustment based on load and speed for smoother operation and significantly reduced motor heating.
- **Rich Interfaces, Flexible Configuration:**
  Equipped with 6 input and 2 output signal interfaces, supporting various function settings such as probe, limit, home, alarm, and brake to meet diverse application needs.
- **EtherCAT Bus, Strong Anti-interference:**
  Relies on low bus load and point-to-point physical layer architecture to effectively suppress interference and noise, enhancing system reliability and anti-interference capability.
- **Encoder Feedback, Eliminates Lost Steps:**
  Uses real-time encoder position feedback and deviation compensation to fundamentally solve the lost-step problem of traditional stepper motors for more precise positioning.

DP3CL1 Series Open-loop EtherCAT Bus Stepper Drive

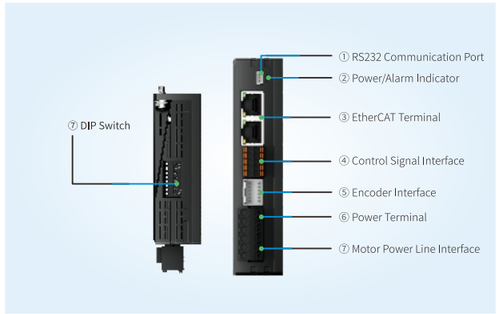
- **Compact Structure, Flexible Layout:**
  The new generation product is significantly optimized in size. Taking the DP3CL1-705 as an example, the body thickness is only 28mm, reducing volume by about 20% compared to the previous generation, effectively saving control cabinet installation space and providing greater flexibility for equipment structural design.
- **Bus Communication, Stable and Reliable:**
  EtherCAT bus communication based on the CIA402 standard, paired with shielded network cable connection, offers stronger anti-interference capability compared to traditional pulse interfaces, adapts to complex industrial electromagnetic environments, making system operation more stable and reliable.
- **Intelligent Temperature Control, Lower Heat Generation:**
  Features dynamic current adjustment function, automatically adjusting output current based on load, significantly improving motor temperature rise during medium to high-speed operation. Supports automatic half-current and 128 micro-stepping technology, reducing current to 50% during standstill or low speed, minimizing vibration and loss, and extending motor and drive lifespan.
- **Integrated Wiring, Cost-saving:**
  Uses bus-type connection, where one network cable replaces multiple pulse wires, greatly simplifying wiring work, reducing cable and labor costs. Supports hot-plug functionality for easy troubleshooting and maintenance, effectively lowering the total lifecycle cost.

Application Scenarios

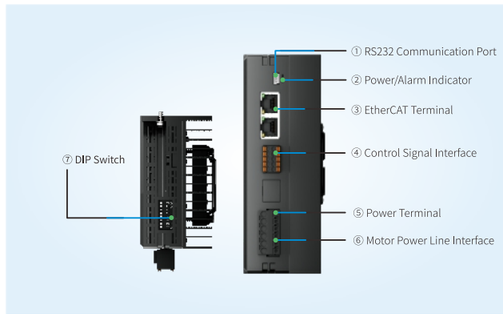
Wire strippers, marking machines, plotters, medical equipment, electronic processing, engraving machines, laser machines, cutting machines, etc.

Hardware Interface

DP3C1 Series



DP3CL1 Series

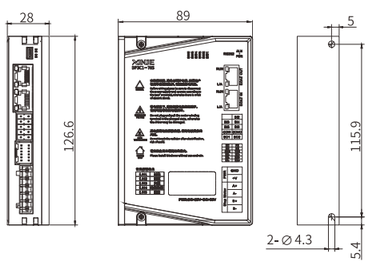


Drive Specifications

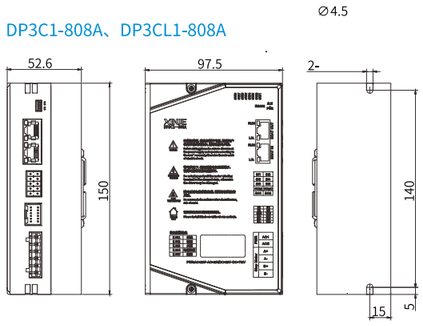
Drive Model		DP3C1-305	DP3C1-705	DP3C1-808A	DP3CL1-305	DP3CL1-705	DP3CL1-808A
Input Power Voltage (V)		DC20~50	DC20~50	DC20~80	DC20~50	DC20~50	AC20~80 DC20~110
Recommended Power Voltage (V)		24~36	Recommended value for 57 motor: 24~36; For 86 or high-speed applications, 48V is recommended.	Above 48	24~36	Recommended value for 57 motor: 24~36; For 86 or high-speed applications, 48V is recommended.	Above 48
Peak Output Current (A)		1~3	1~7	1~8.4	1~3	1~7	1~8.4
Matching Motor (Frame)		42	57/60	86	42	57/60	86
Overall Dimensions (mm)		89*126.6*28	89*126.6*28	97.5*150.0*52.6	89*126.6*28	89*126.6*28	97.5*150.0*52.6
Input Signal		Probe Input, Home Input, Positive/Negative Limit, Emergency Stop, Custom Input			Home Input, Positive/Negative Limit, Alarm Clear, Custom Input		
Output Signal		Alarm Output, Positioning Completed Output, Brake Signal Output, Custom Output			Alarm Output, Brake Signal Output, Custom Output		
Alarm Function		Overcurrent, Overvoltage, Excessive Error, Communication Error, etc.			Overcurrent, Overvoltage, Communication Error, etc.		
Configuration Software		Xinje Stepper Drive Configuration Tool Software					
Operating Environment	Application Occasion	“Avoid environments with excessive dust, oil mist, corrosive gases, high humidity, and strong vibration. Flammable gases and conductive dust are prohibited. ”					
	Ambient Temperature	0℃~50℃					
	Maximum Operating Temperature	60℃					
	Humidity	40%～90%RH(No condensation or water droplets allowed.)					
	Vibration	5.9m/s^{2}Max					
	Storage Temperature	-20℃~65℃					

Drive Dimensions (unit: mm)

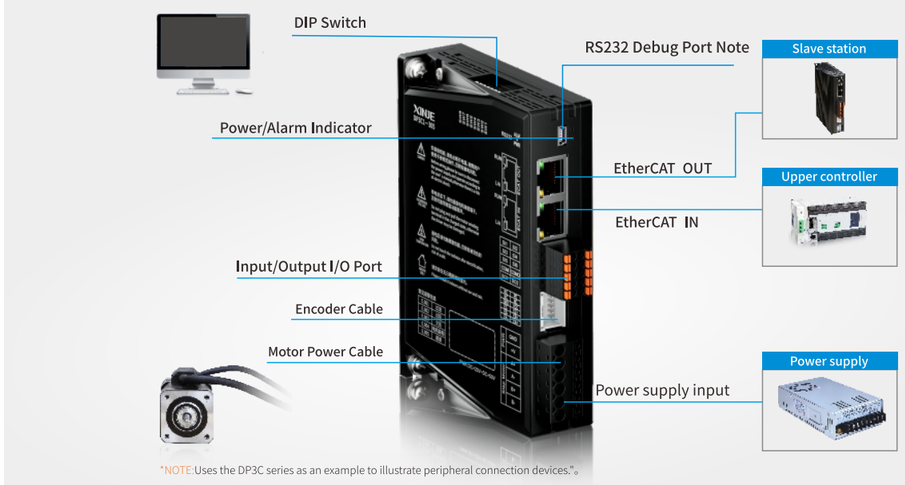
DP3C1-305/705、DP3CL1-305/705



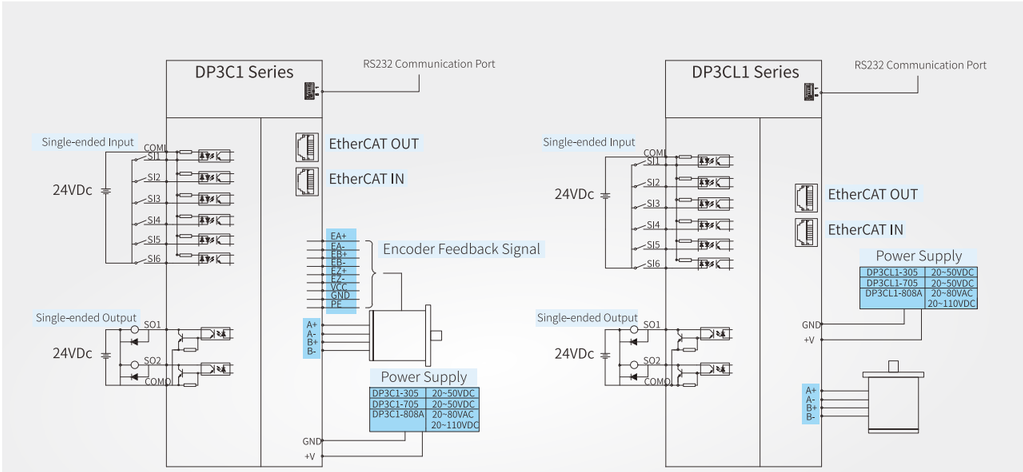
DP3C1-808A、DP3CL1-808A



Drive Peripheral Circuit

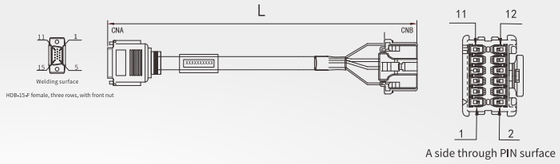


Drive Wiring Diagram



Accessories

Encoder Cable

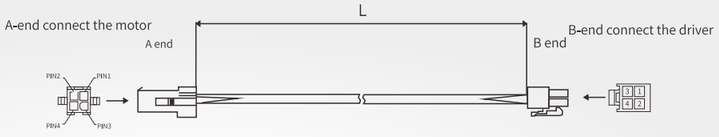


CNA Side	1	2	3	11	12	13
Color	Blue	Yellow	Yellow-Black	Green	Green-Black	Blue-Black
Definition	A+	VCC	GND	B+	B-	A-
CNB Side	11	5	6	9	10	12

*Note: If the Z-signal output function is required, please use the 【CP-MD-Z-K length】 encoder cable.

Model	Length (m)
CP-MD-01	1
CP-MD-02	2
CP-MD-03	3
CP-MD-05	5
CP-MD-08	8
CP-MD-10	10
CP-MD-12	12
CP-MD-16	16
CP-MD-20	20

Power cable



A end PIN	1	2	3	4
Definition	B+	A+	A-	B-
Color	Black	Brown	Blue	Yellow green
B end PIN	2	1	3	4

*Note: For customers who want to make cable by themselves, they can choose JAMP-M4-P4 accessory package, which contains the terminals of driver and motor, and can press the cables by themselves. If you need this bus driver with open-loop motor, please choose JAMP-M4 accessories, including the driver terminal, which can press the cable by yourself.

Model	Length (m)
CM-MP07-01	1
CM-MP07-02	2
CM-MP07-03	3
CM-MP07-05	5
CM-MP07-08	8
CM-MP07-10	10
CM-MP07-12	12
CM-MP07-16	16
CM-MP07-20	20

EtherCAT bus cable

Model	Length (m)
JC-CB-0P2	0.2
JC-CB-0P3	0.3
JC-CB-0P5	0.5
JC-CB-1	1
JC-CB-3	3
JC-CB-5	5
JC-CB-10	10
JC-CB-20	20

Power supply cable

Each driver will be delivered with a power cable for free. For additional needs, the purchase models are as follows:

Model	Length (m)
JC-PM-20	2

RS485 Integrated Control Stepper Driver

DP3S Series Closed-loop RS485 Communication Stepper Driver

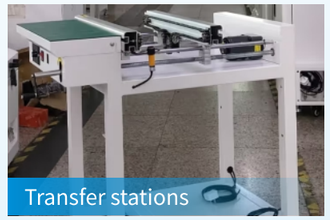
- Featuring isolated RS485 design for reliable communication
- Built-in single-axis controller (PR) saves pulse output points of PLC
- Closed-loop control prevents missed steps
- Configurable 16-segment motion paths, supporting homing/position limit/positioning/speed/JOG functions
- Supports IO control for multi-speed control
- Supports broadcast control, one master multiple slaves

DP3SL Series Open-loop RS485 Communication Stepper Driver

- Featuring isolated RS485 design for reliable communication
- Built-in single-axis controller (PR) saves pulse output points of PLC
- Supports station number settings for up to 31 axes
- Configurable 16-segment motion paths, supporting homing/position limit/positioning/speed/JOG functions
- Supports IO control for multi-speed control.

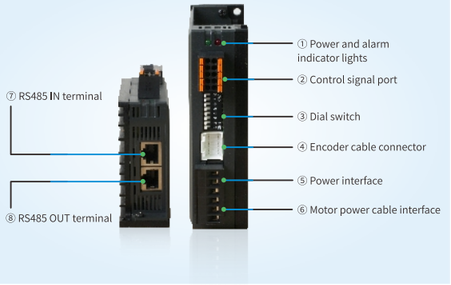
Application Scenarios

DP3S and DP3SL series drivers are suitable for conveyor systems, transfer stations, textile industry, etc.

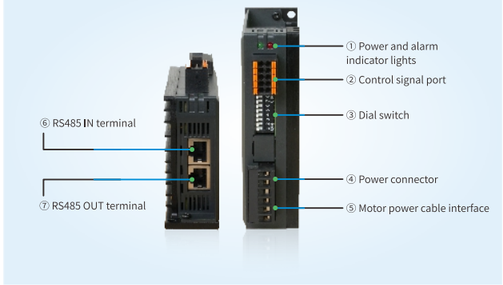


Hardware interface

DP3S series



DP3SL series

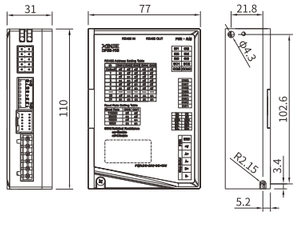


Driver specification

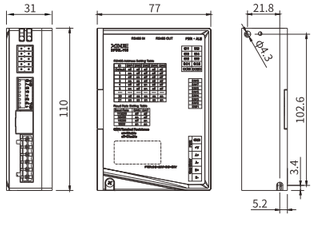
Driver model		DP3S-705	DP3S-808A	DP3SL-705	DP3SL-808A
Input power supply voltage (V)		20V~50VDC	20V~80VAC/20V~110VDC	20V~50VDC	20V~80VAC/20V~110VDC
Peak output current (A)		1-7	1-8.4	1-7	1-8.4
Matching motor (base)		42/57/60	86	42/57/60	86
Electrical specification	Station address setting	Parameter/DIP switch			
	Digital input interface	6-channel single ended input, input voltage is 12-24V			
	Digital output interface	2-channel single ended output, supporting a maximum of 50mA			
	Serial port debugging	Can be connected to the upper computer via 485 network port for debugging			
Usage environment	Use occasion	Try to avoid dust, oil stains, and corrosive gases, as well as places with high humidity and strong vibrations. Combustible gases and conductive dust are prohibited			
	Ambient temperature	0°C～50°C			
	Maximum operating temperature	60°C			
	Humidity	40%～90% RH (No condensation or water droplets)			
	Vibration	5.9m/s2 Max			
	Storage temperature	−25°C～70°C			

Driver dimension (Unit: mm)

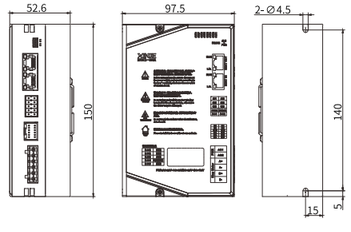
DP3S-705



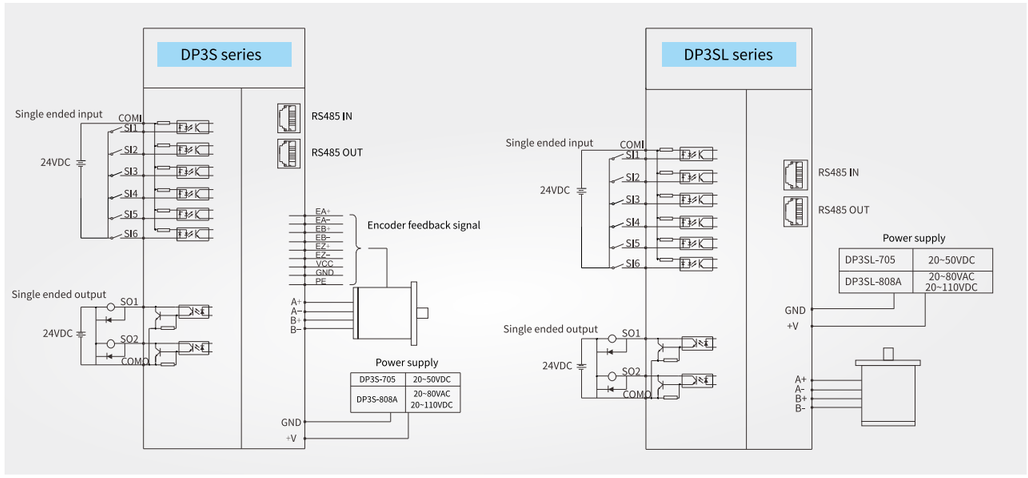
DP3SL-705



DP3S-808A、DP3SL-808A

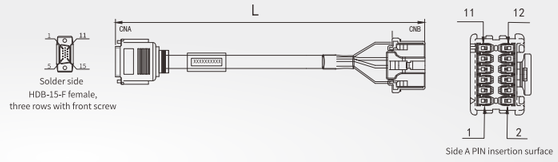


Driver wiring diagram



Accessories

Encoder cable

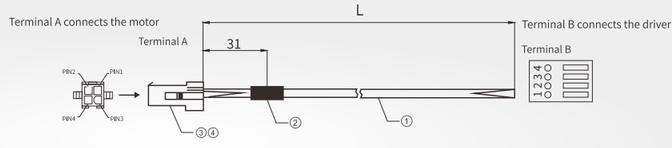


CAN side	1	2	3	11	12	13
Color	Blue	Yellow	Yellow black	Green	Green black	Blue black
Definition	A+	VCC	GND	B+	B-	A-
CNB side	11	5	6	9	10	12

*Note: If Z-signal output function is required, please equip the encoder cable CP-MD-Z-length.

Model	Length L (m)	Model	Length L (m)
CP-MD-2	2	CP-MD-10	10
CP-MD-3	3	CP-MD-12	12
CP-MD-5	5	CP-MD-16	16
CP-MD-8	8	CP-MD-20	20

Power cable



Terminal A PIN	1	2	3	4
Definition	B+	A+	A-	B-

*Note: For customers who need to make their own power cables, they can choose the accessory kit JA-CM-P4, which includes terminals that match the motor.

Model	Length L (m)	Model	Length L (m)
CM-P07B-2	2	CM-P07B-10	10
CM-P07B-3	3	CM-P07B-12	12
CM-P07B-5	5	CM-P07B-16	16
CM-P07B-8	8	CM-P07B-20	20

Pulse type stepping driver

DP3F1 closed-loop pulse stepping driver

- Closed loop control and torque lifting to prevent step loss
- Higher running speed and acceleration
- More stable operation at low speed
- The plug-in wiring is simple and fast
- Pulse and direction input voltage support 5V and 24V
- Comprehensive overvoltage,overcurrent, undervoltage and short circuit protection functions

Applicable occasions: various small and medium-sized automation equipment and instruments, such as engraving machine, stripping machine, cutting machine, etc.

DP3L1 open loop pulse stepping driver

- Smaller size and space saving
- Reliable quality and excellent performance
- Large output, fast speed, stable operation and low temperature rising
- Pulse direction supports 5~24V
- New open loop IO stepping driver:
  Dial code speed regulation, IO trigger, stable start and stop, uniform speed, widely used in conveying equipment, docking station, PCB feeder

Applicable occasions:all kinds of small and medium-sized automation equipment and instruments, such as labeling machine,3C, photovoltaic, lithium battery, bearing, labeling canned, winding machine

DP3L high voltage open loop pulse stepping driver

- Supply voltage 220~240VAC
- Pulse and direction input voltage support 5V and 24V
- New control algorithm, significantly improved performance
  The medium and high speed torque is 10 ~ 30% higher than the original product

Applicable occasions: slicer, clothing packaging machine, non-woven bag making machine, glove machine, etc.

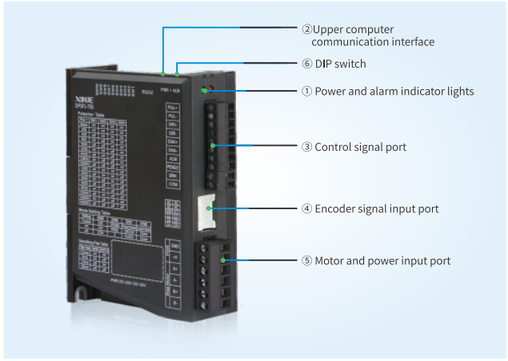
Driver specification

		DP3F closed-loop pulse type			
Driver model		DP3F1-305	DP3F1-705	DP3F1-805A	DP3F1-808A
Basic specification	Input power supply voltage (V)	DC 20~50	DC 20~50	DC 20~80/AC20~50	AC 20~100/AC20~80
	Output current peak value (A)	1~4	1~7	1~8.4	1~8.4
	Adaptive motor (base)	42	57/86	86	86
	Dimension (mm)	110*77*31	110*77*31	141.5*97.5*56.0	141.5*97.5*56.0
	Stepping pulse frequency (kHz)	24V signal 150K, 5V differential signal 150K			
	Control signal input voltage (VDC)	Support 5V and 24V (DC)			
Use environment	Use occasion	Avoid dust, oil mist and corrosive gas			
	Ambient temperature	-10°C~50°C			
	Max working temperature	60°C			
	Humidity	40%～90% RH (no condensation or water droplets)			
	Vibration	5.9m/s^2 Max			
	Storage temperature	-20°C~65°C			

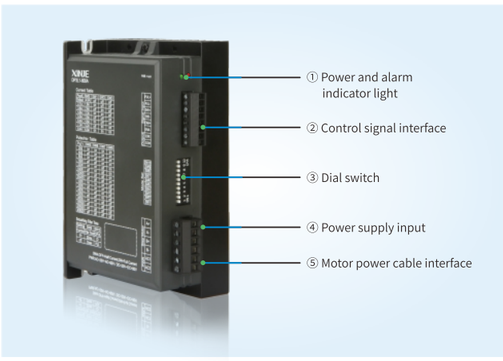
		DP3L1 economic open-loop pulse type					DP3L1 open loop IO type	DP3L high voltage open loop pulse type
Driver model		DP3L1-224	DP3L1-565	DP3L1-565A	DP3L1-805A	DP3L1-808A	DP3L1-565-IO	DP3L-11022A3
Basic specification	Input power supply voltage (V)	DC20~40	DC20~50	DC20~80/AC20~50	DC20-80/AC20-50	DC20~110/AC20~80	DC20~50	AC200~240
	Output current peak value (A)	0.5~2.2	1.4~5.6	1.4~5.6	2.7~8.4	2.7~8.4	1.4~5.6	3.1~11.3
	Adaptive motor (base)	42	57/86	42/57	86	86	57/86	86/110/130
	Dimension (mm)	80*55*21.3	105*75.8*27.8	105*75.8*27.8	150*97.5*52.6	150*97.5*56	105*75.8*27.8	199.5*137*79
	Stepping pulse frequency (kHz)	150 Khz						
	Control signal input voltage (VDC)	5-24V						5/24V(dial switch)
Use environment	Use occasion	Avoid dust, oil mist and corrosive gas						
	Ambient temperature	0°C~50°C						
	Max working temperature	60°C						
	Humidity	40%~90% RH(no condensation or water droplets)						
	Vibration	5.9m/s^2 Max						
	Storage temperature	-20°C~65°C						

Hardware interface

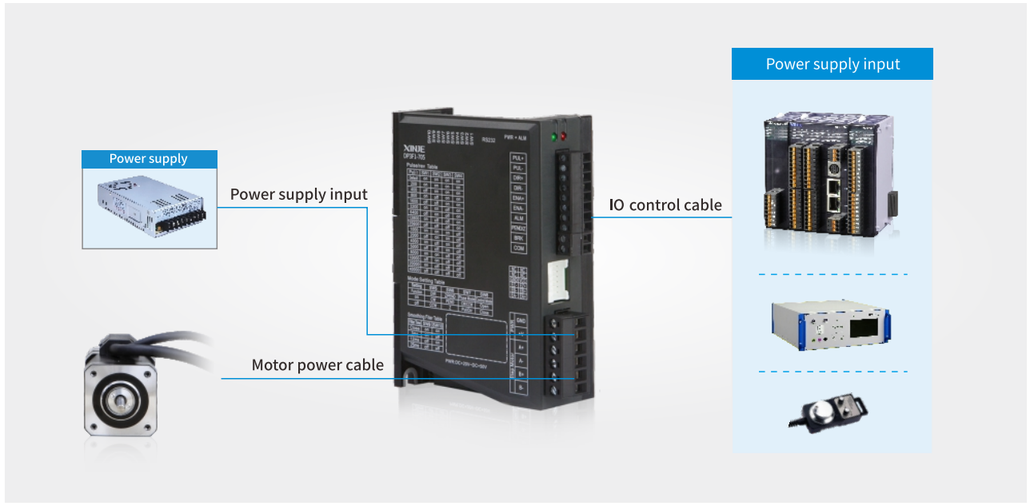
DP3F1 series



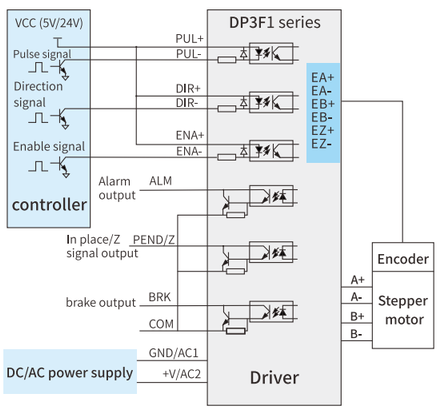
DP3L1 series



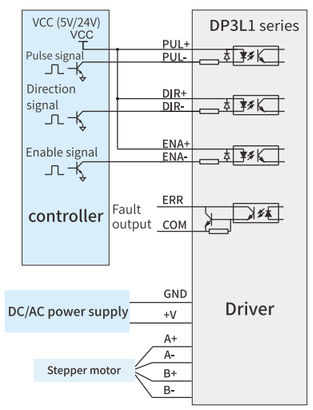
Driver peripheral circuit



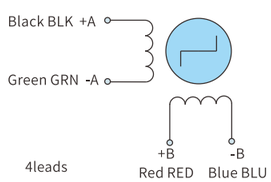
Driver wiring diagram



Closed-loop system wiring diagram



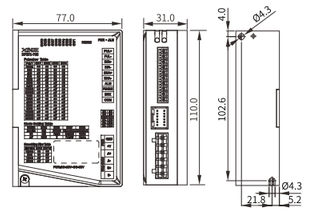
Open loop system wiring diagram



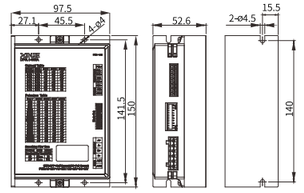
Motor wiring diagram

Driver dimension (Unit: mm)

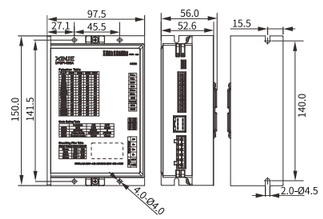
DP3F1-305/DP3F1-705



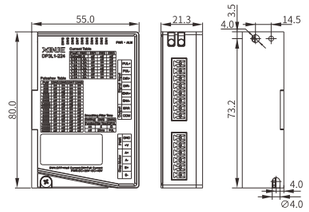
DP3F1-805A



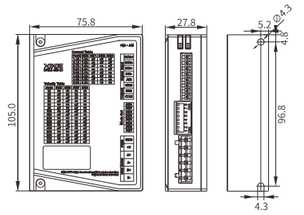
DP3F1-808A



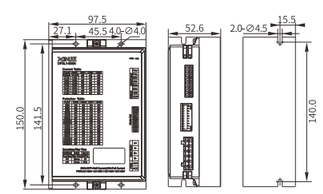
DP3L1-224



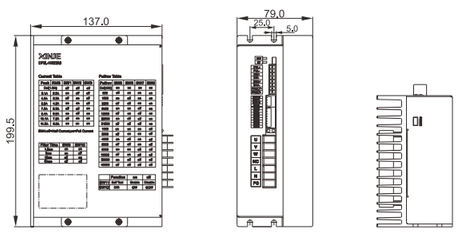
DP3L1-565/DP3L1-565-IO/DP3L1-565A



DP3L1-805A/DP3L1-808A



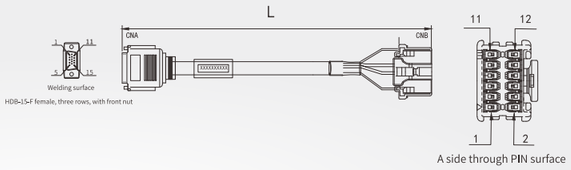
DP3L-11022A3



Accessories

*Note: suitable for DP3F1 series

Encoder cable

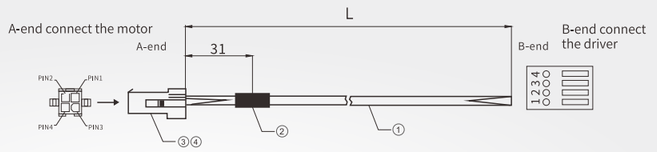


CNAside	1	2	3	11	12	13
Color	Blue	Yellow	Yellow black	Green	Green black	Blue black
Definition	A+	VCC	GND	B+	B-	A-
CNBside	11	5	6	9	10	12

*Note: If Z signal output function is required, please use encoder cable [CP-MD-Z-length].

Model	Length L(m)
CP-MD-2	2
CP-MD-3	3
CP-MD-5	5
CP-MD-8	8
CP-MD-10	10
CP-MD-12	12
CP-MD-16	16
CP-MD-20	20

Length



A-endPIN	1	2	3	4
Definition	B+	A+	A-	B-

*Note: For customers who need make cable by themseleves, they can buy accessory package JA-CM-P4, which includes the terminals suitable for the motor.

Model	Length L(m)
CM-P07B-2	2
CM-P07B-3	3
CM-P07B-5	5
CM-P07B-8	8
CM-P07B-10	10
CM-P07B-12	12
CM-P07B-16	16
CM-P07B-20	20

Stepping motor

Motor naming rule

MP3- 57 H □ □ 080 -□
① ② ③ ④ ⑤ ⑥ ⑦

① Name

Sign	Product name
MP3	Stepping motor

② Base number

Sign	Base number
20	20 base
28	28 base
35	35 base
42	42 base
57	57 base
60	60 base
86	86 base
110	110 base
130	130 base

③ Open close loop type

Sign	Type
H	Standard open loop motor
T	Optical encoder closed-loop motor

④ Special motor type

Sign	Type
I	Waterproof motor
S	Double output shaft motor

⑤ Brake type

Sign	Power-off brake
Vacant	Brake type
Z	Power-off brake

⑥ Holding torque

Sign	Static moment
0028	0.028N.m
0115	0.115N.m
005	0.5 N.m
008	0.8 N.m
013	1.3 N.m
023	2.3 N.m
030	3.0 N.m
042	4.2 N.m
045	4.5 N.m

Sign	Static moment
080	8.0 N.m
085	8.5 N.m
100	10 N.m
120	12 N.m
160	16 N.m
200	20 N.m
280	28 N.m
350	35 N.m
500	50 N.m

⑦ General customized code

Sign	Type
Vacant	Standard
B	Right angle flat (without keyway)shaft
D	Shaft diameter change
L	Shaft length change
Z	Z phase output closed-loop motor

*Note: The body length of the closed-loop motor needs to add the encoder length based on the open-loop motor.
The encoder cable lengths include: 42 motor 18mm, 57 motor 20mm, 60 motor 22mm, 86 motor 26mm.

Adaptation table of closed-loop motor and driver

Closed loop motor model		Step angle (°)	Static moment (N.m)	Phase current (A)	Motor shaft	Shaft diameter (mm)	Matched driver
Standard series	Brake series						
MP3-42T002	MP3-42TZ002	1.8	0.2	1.33	Flat	5	DP3F1/C/C1-305 DP3S-705
MP3-42T004	MP3-42TZ004	1.8	0.5	1.70	Flat	5	
MP3-42T005	MP3-42TZ005	1.8	0.5	1.68	Flat	5	
MP3-42T008	MP3-42TZ008	1.8	0.8	1.7	Flat	5	
MP3-57T013	MP3-57TZ013	1.8	1.3	4	Flat	8	DP3F1/C/C1/S-705
MP3-57T013-D6.35	MP3-57TZ013-D6.35	1.8	1.3	4	Flat	6.35	
MP3-57T023	MP3-57TZ023	1.8	2.3	5	Flat	8	
MP3-57T030	MP3-57TZ030	1.8	3	5	Flat	8	
MP3-57T030-4A	MP3-57TZ030-4A	1.8	3	4	Flat	8	
MP3-60T022	MP3-60TZ022	1.8	2	5	Flat	8	
MP3-60T030	MP3-60TZ030	1.8	3	5	Flat	8	
MP3-60T040	MP3-60TZ040	1.8	4.0	5	Flat	8	
MP3-86T045	MP3-86TZ045	1.8	4.5	6	Flat Key 5*25	14	DP3C-808 DP3F1-805A DP3F1/C1/S-808A
MP3-86T080	MP3-86TZ080	1.8	8	6	Flat Key 5*25	14	
MP3-86T085	MP3-86TZ085	1.8	8.5	6	Flat Key 5*25	14	
MP3-86T085-D12.7	MP3-86TZ085-D12.7	1.8	8.5	6A	Flat Key 5*25	12.7	
MP3-86T100	MP3-86TZ100	1.8	10	6	Flat Key 5*25	14	
MP3-86T120	MP3-86TZ120	1.8	12	6	Flat Key 5*25	14	

Adaptation table of three-phase open loop motor and driver

Three phase open loop motor model		Step angle (°)	Static moment (N.m)	Phase current (A)	Motor shaft	Shaft diameter (mm)	Matched driver
Standard series	Brake series						
MP3-110H120	MP3-110HZ120	1.2	12	6	Flat Key 6*30	19	DP3L-11022A3
MP3-110H160	MP3-110HZ160	1.2	16	6.4	Flat Key 6*30	19	
MP3-110H200	MP3-110HZ200	1.2	20	6.9	Flat Key6*30	19	
MP3-110H250	MP3-110HZ250	1.2	25	6	Flat Key6*25	19	
MP3-130H280	MP3-130HZ280	1.2	28	6.9	Flat Key 8*36	24	
MP3-130H350	MP3-130HZ350	1.2	35	6.9	Flat Key 8*36	24	
MP3-130H500	MP3-130HZ500	1.2	50	6.9	Flat Key 8*36	24	

Adaptation table of two-phase open loop motor and driver

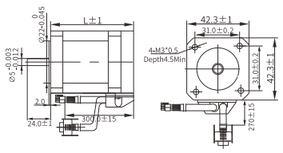
Open loop motor model		Step angle (°)	Static moment (N.m)	Phase current (A)	Motor shaft	Shaft diameter (mm)	Matched driver
Standard series	Brake series						
MP3-20H0028	/	1.8	0.028	0.2	Flat	4	DP3CL-305 DP3L1-224 DP3CL1-305 DP3SL-705
MP3-20H0048	/	1.8	0.048	0.65	Flat	4	
MP3-28H0085	MP3-28HZ0085	1.8	0.085	0.7	Flat	5	
MP3-28H0115	MP3-28HZ0115	1.8	0.115	1	Flat	5	
MP3-28H017	MP3-28HZ017	1.8	0.17	1	Flat	5	
MP3-35H017	MP3-35HZ017	1.8	0.17	1	Flat	5	
MP3-35H026	MP3-35HZ026	1.8	0.26	1	Flat	5	
MP3-35H042	MP3-35HZ042	1.8	0.42	1.00	Flat	5	
MP3-42H002	MP3-42HZ002	1.8	0.22	1.33	Flat	5	
MP3-42H004	MP3-42HZ004	1.8	0.46	1.7	Flat	5	
MP3-42H005	MP3-42HZ005	1.8	0.5	1.68	Flat	5	
MP3-42H008	MP3-42HZ008	1.8	0.8	1.7	Flat	5	
MP3-57H006	MP3-57HZ006	1.8	0.6	3	Flat	6.35	DP3L1-565 DP3CL-705 DP3CL1-705 DP3SL-705
MP3-57H013	MP3-57HZ013	1.8	1.3	4	Flat	8	
MP3-57H013-D6.35	MP3-57HZ013-D6.35	1.8	1.2	4	Flat	6.35	
MP3-57H023	MP3-57HZ023	1.8	2.3	5	Flat	8	
MP3-57H030	MP3-57HZ030	1.8	3	5	Flat	8	
MP3-57H030-4A	MP3-57HZ030-4A	1.8	3	4	Flat	8	
MP3-60H022	MP3-60HZ022	1.8	2	5	Flat	8	
MP3-60H030	MP3-60HZ030	1.8	3	5	Flat	8	
MP3-86H035	MP3-86HZ035	1.8	3.5	4	Flat Key 5*25	14	DP3L1-808A DP3CL-808 DP3CL-808A DP3CL1-808A DP3SL-808A
MP3-86H035-D12.7	MP3-86HZ035-D12.7	1.8	3.5	4	Flat Key 5*25	12.7	
MP3-86H045	MP3-86HZ045	1.8	4.5	6	Flat Key 5*25	14	
MP3-86H045-D12.7	MP3-86HZ045-D12.7	1.8	4.5	6	Flat Key 5*25	12.7	
MP3-86H080	MP3-86HZ080	1.8	8	5	Flat Key 5*25	14	
MP3-86H080-D12.7	MP3-86HZ080-D12.7	1.8	8	5	Flat Key 5*25	12.7	
MP3-86H085	MP3-86HZ085	1.8	8.5	6	Flat Key 5*25	14	
MP3-86H085-D12.7	MP3-86HZ085-D12.7	1.8	8.5	6	Flat Key 5*25	12.7	
MP3-86H100	MP3-86HZ100	1.8	10	6	Flat Key 5*25	14	
MP3-86H120	MP3-86HZ120	1.8	12	6	Flat Key 5*25	14	

Motor mounting dimension (Unit: mm)

Closed-loop motor

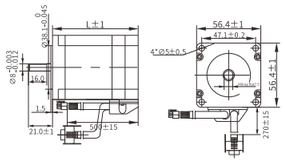
42 series

Model	L(mm)	
	General	With brake
MP3-42T002	53	84
MP3-42T004	60	91
MP3-42T005	66	97
MP3-42T008	78	109



57 series

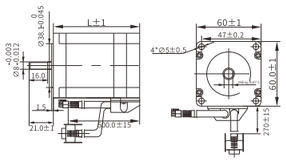
Model	L(mm)	
	General	With brake
MP3-57T013	75	115
MP3-57T023	95	135
MP3-57T030-4A	130	170



Large 57 series

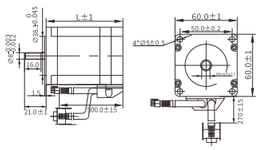
Model	L(mm)	
	General	With brake
MP3-57T030	107	147

*Note: This motor adopts the body width of 60 motor and the front cover of 57 motor. The installation method is the same as that of 57 motor. With a relatively short body length, the holding torque of 3N can be achieved, which improves the stability of the motor.



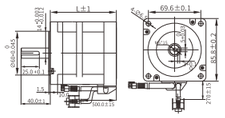
60 series

Model	L(mm)	
	General	With brake
MP3-60T022	87	117
MP3-60T030	107	147
MP3-60T040	130	160



86 series

Model	L(mm)	
	General	With brake
MP3-86T045	106	143
MP3-86T080	124	161
MP3-86T085	144	181
MP3-86T100	155	192
MP3-86T120	176	213

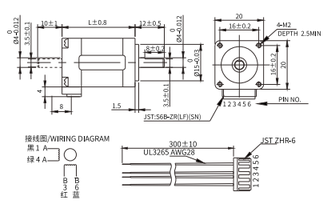


Motor mounting dimension (Unit: mm)

Two-phase open loop motor

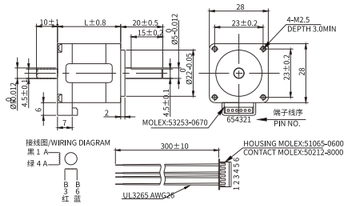
20 series

Model	L(mm)	
	Normal	With brake
MP3-20H0028	27.2	/
MP3-20H0048	37.8	/



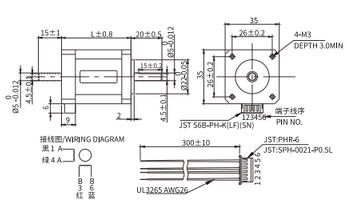
28 series

Model	L(mm)	
	Normal	With brake
MP3-28H0085	30.1	62.1
MP3-28H0115	39.2	71.2
MP3-28H017	50.4	82.4



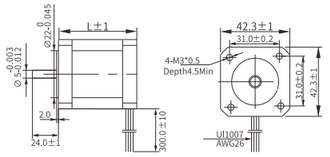
35 series

Model	L(mm)	
	Normal	With brake
MP3-35H017	31.4	58.4
MP3-35H026	42.3	69.3
MP3-35H042	51.7	78.7



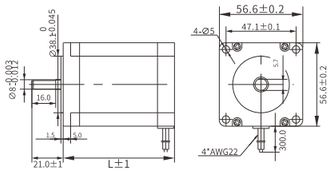
42 series

Model	L(mm)	
	Normal	With brake
MP3-42H002	33	64
MP3-42H004	40	71
MP3-42H005	48	79
MP3-42H008	60	91



57 series

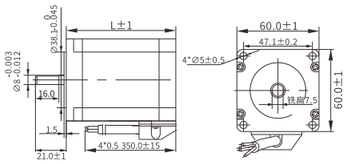
Model	L(mm)	
	Normal	With brake
MP3-57H013	56	96
MP3-57H023	76	115
MP3-57H030-4A	110	150



Large 57 series

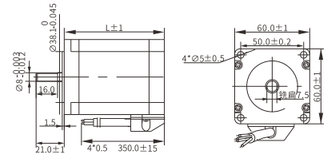
Model	L(mm)	
	Normal	With brake
MP3-57H030	88	127

*Note: This motor has a body width of 60 motors, a front cover of 57 motors, installation method is same to 57 motors. The holding torque of 3N can be achieved by using a relatively short body length, improving the motor stability.



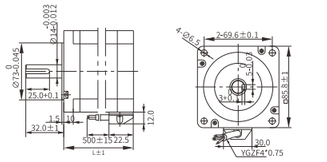
60 series

Model	L(mm)	
	Normal	With brake
MP3-60H022	67	106
MP3-60H030	88	127



86 series

Model	L(mm)	
	Normal	With brake
MP3-86H035	65	108
MP3-86H045	80	123
MP3-86H080	98	141
MP3-86H085	118	161
MP3-86H100	129	172
MP3-86H120	150	193



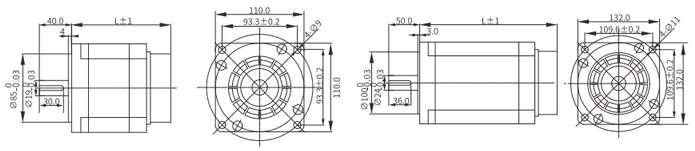
Three-phase open loop motor

110 series

Model	L(mm)	
	Normal	With brake
MP3-110H120	151	219
MP3-110H160	185	253
MP3-110H200	219	287
MP3-110H250	194	/

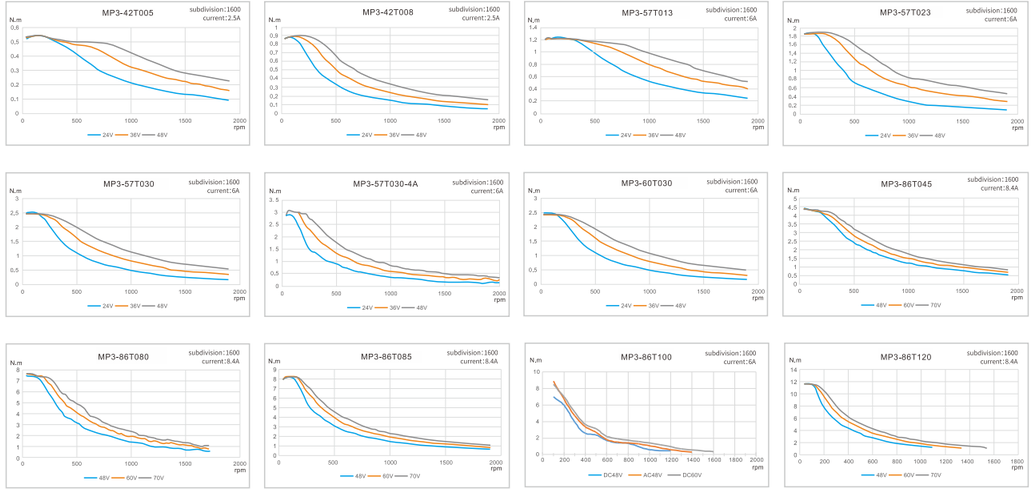
130 series

Model	L(mm)	
	Normal	With brake
MP3-130H280	222	275
MP3-130H350	254	307
MP3-130H500	319	352



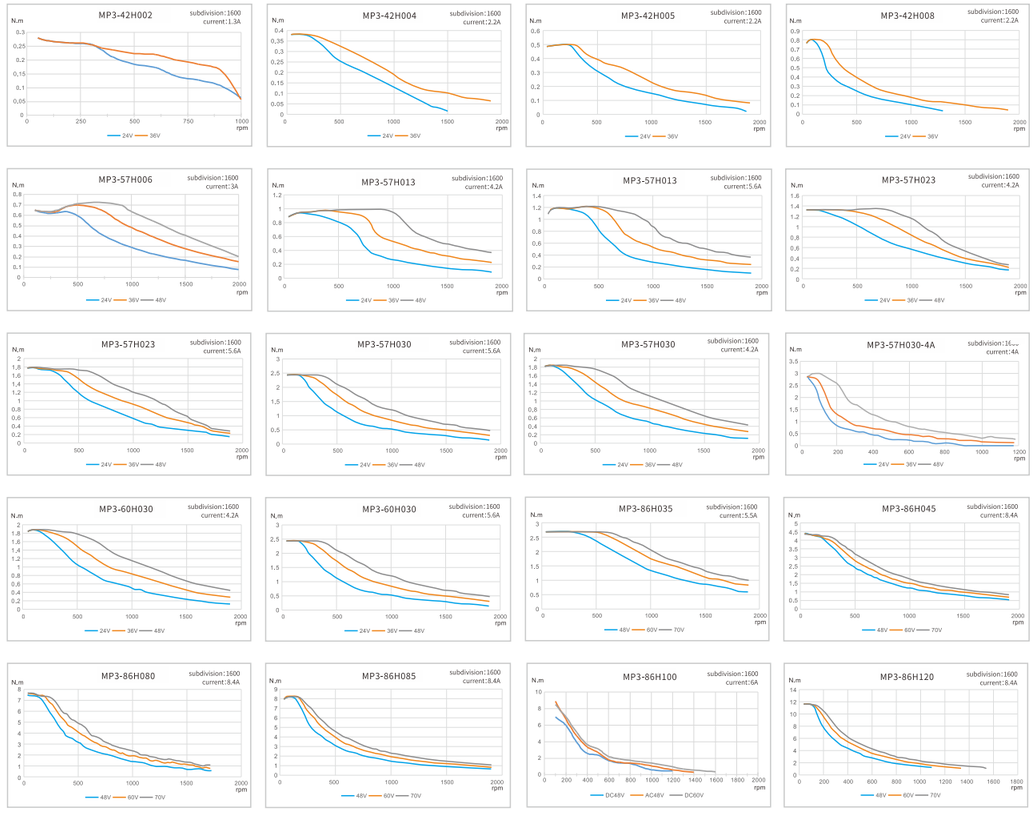
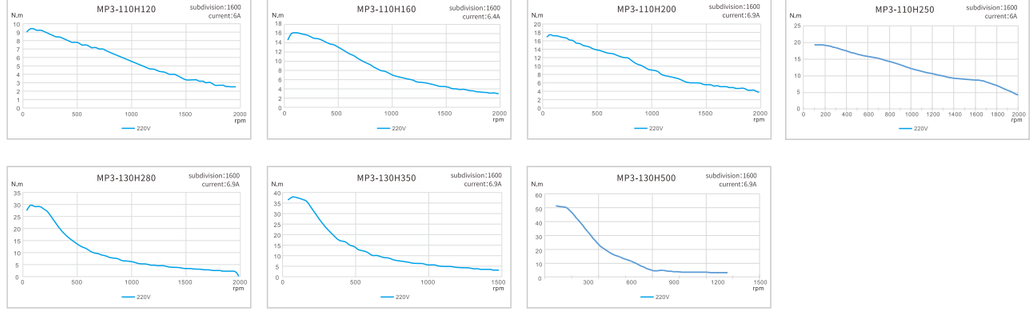
Motor torque frequency characteristic diagram

Closed-loop series (the follow current is peak current)



Motor torque frequency characteristic diagram

Two-phase open loop series (the follow current is peak current)



Three-phase open loop series (the follow current is peak current)