- Bus type stepping driver
  DP3CL DP3C series stepping driver
- Pulse type stepping driver
  DP3F DP3L1 series stepping driver
- Stepping motor
  MP3 series stepping motor

Stepping system

Bus type stepping driver · Pulse type stepping driver
Stepping 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.

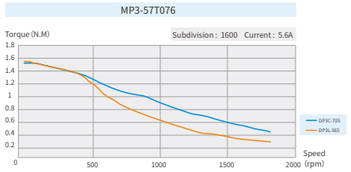
Higher reliability and anti-interference

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.

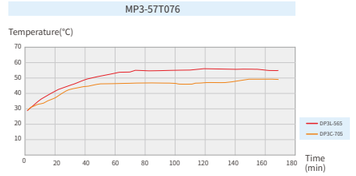
A new generation of control algorithm with better performance

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

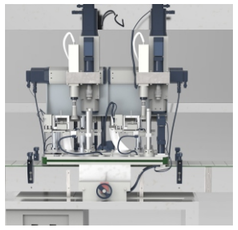
DP3C,DP3CL series bus stepping driver

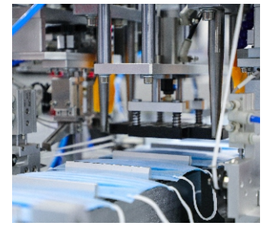
It is suitable for electronics, laser and occasions requiring multi-axis control.

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

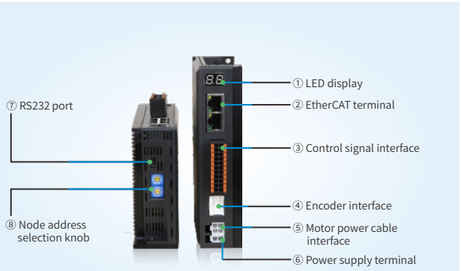

Filling machine


Capping machine


Mask machine

Hardware interface

DP3C series



① LED display status

DP3C series displays operation speed, state machine/operation mode, node address, alarm fault and other information through two digits LED.

Stage	Display information
Power on initial stage	After the driver is powered on, the two LEDs are on for 0.5s, and display the actual node address of the current driver in hexadecimal. During this period, the LED node address flashes at an interval of 1s (0.5s on and 0.5s off). The time is 5s in total. After that, it enters the normal operation stage
Normal operation stage (parameter modification display content)	Speed (r/s)
	Operation mode, state machine: hexadecimal display (default)
	Node address: always on display

*Note: during initialization and normal operation, if the node address is changed, the LED flashes at an interval of 1s (0.5s on, 0.5s off), and then continues to return to the original state after 5s.

② EtherCAT terminal

Signal	Explanation
E_TX+	EtherCAT data send +
E_TX-	EtherCAT data send -
E_RX+	EtherCAT data receive +
E_RX-	EtherCAT data receive –

*Note: the cable length between EtherCAT bus nodes is recommended to be no more than 50m. It is recommended to use CAT5e 100M Ethernet cable with double-layer shielding layer or better.

③ Control signal interface

Signal	Explanation
SI1+	Differential input signal SI1, 24V is effective, max input frequency 200KHz, default probe input signal 1
SI1-	
SI2+	Differential input signal SI2, 24V is effective, max input frequency 200KHz, default probe input signal 2
SI2-	
SI3	Single ended input signal SI3~SI7, 12~24V is effective, max input frequency 10KHz, signal definition can be set. I3 default is origin point, I4, I5 default are positive/negative limit, I6, I7 default is general purpose. COMI is common terminal of singleended signal input, common anode or common cathode
SI6	
SI4	
SI7	
SI5	
COMI	
SO1+	Differential output signal OUT1, output max current 100mA, withstand voltage 30VDC, default is alarm output
SO1-	
SO2+	Differential output signal OUT2, output max current 100mA, withstand voltage 30VDC, default is in place signal
SO2-	
SO3	Single ended output, common cathode, max current 100mA, withstand voltage 30VDC
SO6	Single ended output, common cathode, max current 100mA, withstand voltage 30VDC
SO4	Single ended output, common cathode, max current 100mA, withstand voltage 30VDC
24V	Used together with braking output
SO5	Single ended output, common cathode, max current 100mA, withstand voltage 30VDC
BRK+	Braking output +, max 500mA, withstand voltage 24V,can connect the brake directly without connecting the relay
COMO	Common terminal of the output common cathode
BRK-	Braking output -, max 500mA, withstand voltage 24V, can connect the brake directly without connecting the relay

④ Encoder signal input terminal

Signal	Explanation
PE	Shielding ground
NC	Reserved signal
NC	Reserved signal
NC	Reserved signal
VCC	5V power supply output, provided by the driver, only for encoder power supply
GND	
EZ+	Encoder phase Z signal +
EZ-	Encoder phase Z signal -
EB+	Encoder phase B signal +
EB-	Encoder phase B signal -
EA+	Encoder phase B signal -
EA-	Encoder phase A signal –

*Note: the standard configuration is without Z signal. If Z phase homing is required, the motor and encoder cables supporting Z signal shall be selected.

⑤ Motor winding terminal

Signal	Explanation
A+	Motor winding phase A +
B+	Motor winding phase B +
A-	Motor winding phase A –
B-	Motor winding phase B –

*Note: Xinje's standard power cable diameter is 0.75mm².

⑥ Power supply terminal

Signal	Explanation
GND	Power supply ground
VDC	Power supply positive input

*Note: Xinje's standard power cable diameter is 0.75mm².

⑦ Upper computer communication RS232 port

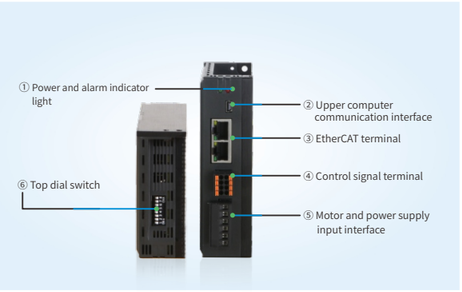
Signal	Explanation
TXD	RS232 send
RXD	RS232 receive
GND	RS232 ground

*Note: please use the special cable provided by Xinje company for communication. RS232 default communication parameters: baud rate 115200bps, data bit 8, stop bit 1, even parity, station no.1.

⑧ Node address selection knob

The node address can be set through the combination of two hexadecimal rotary dialing codes MSD (high bit) and LSD (low bit).

DP3CL series



① Power and alarm indicator light

Color	Function
Green light	Power supply display PWR
Red light	Fault alarm indicator

Flashing message	Fault explanation
Flash once	Over current or short circuit
Flash continuously twice	Over voltage
Flash continuously 3 times	Under voltage
Flash continuously 4 times	Open circuit or poor contact of motor
Always on	Bus related alarm

*Note: when a fault occurs, the indicator light flashes continuously, pauses for one second and then flashes continuously.

② Upper computer communication RS232 port

Signal	Explanation
TXD	RS232 send
RXD	RS232 receive
GND	RS232 ground

*Note: please use the special cable provided by Xinje company for communication. RS232 default communication parameters: baud rate 115200bps,data bit 8, stop bit 1, even parity, station no.1.

③ EtherCAT terminal

Signal	Explanation
E_TX+	EtherCAT data send +
E_TX-	EtherCAT data send -
E_RX+	EtherCAT data receive +
E_RX-	EtherCAT data receive –

*Note: the cable length between EtherCAT bus nodes is recommended to be no more than 50m. It is recommended to use CAT5e 100M Ethernet cable with double-layer shielding layer or better.

④ Control signal terminal

Signal	Explanation
SI1	Single ended input signal SI1~SI4, 24V is effective, max pulse frequency 10KHz, the signal definition can be set. SI1, SI2, SI3, SI4 default is alarm clear, left/right limit and originpoint. COMI is single ended input signal common terminal, supports NPN and PNP
SI2	
SI3	
SI4	
COMI	
COMO	Output common terminal COM
ERR	Alarm output, max 50mA, withstand voltage 24V
BRK	Braking output, max 500mA, withstand voltage 24V, can connect the brake directly without connecting the relay

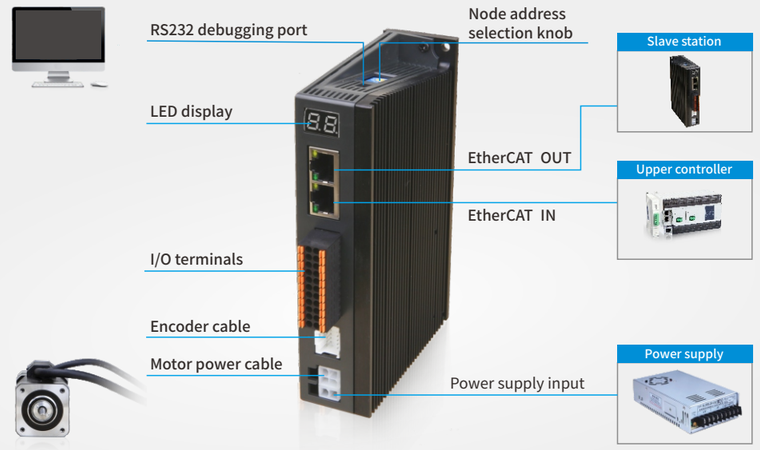
⑤ Motor and power supply input interface

Interface	Function
A+, A-	Motor phase A
B+, B-	Motor phase B
GND	DC power supply ground
+V	DC power supply +

⑥ Top dial switch

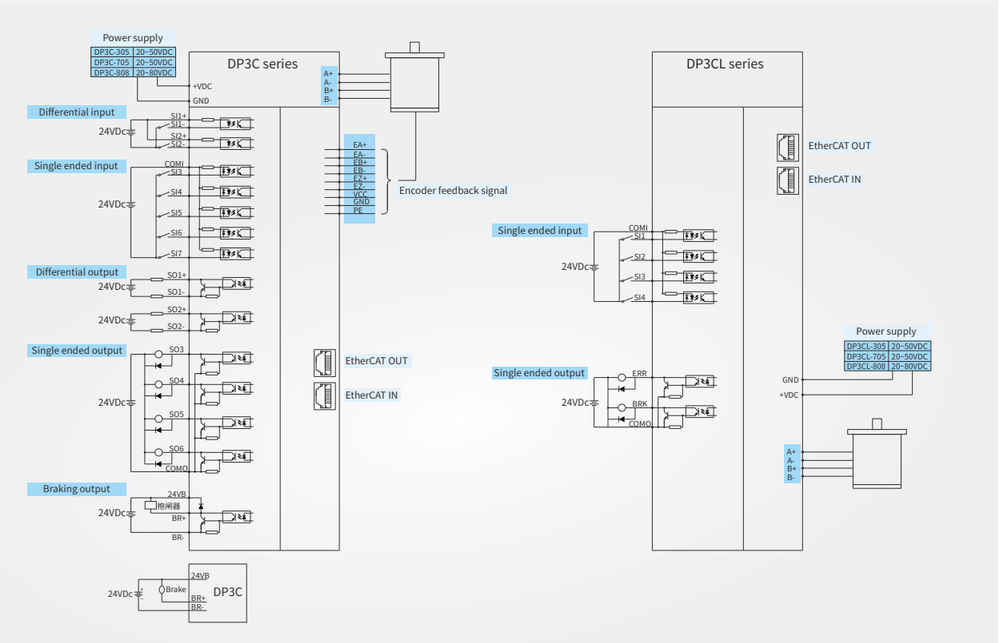
Dial number	Explanation
SW1、SW2、SW3	Dynamic current setting
SW4	Half current/full current mode
SW5、SW6	Filter time
SW7	Direction
SW8	Station switching

Driver peripheral circuit



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

Driver wiring diagram



Product model

Driver model naming

DP3 C L - 70 5

① ② ③ ④ ⑤

① Name

Sign	Product name
DP3	Stepping driver

② Series

Sign	Product series
C	Bus type

③ Control type

Sign	Current
L	Open loop control
None	Closed-loop control

④ Driver output peak current

Sign	Current
30	3.0A
70	7.0A
80	8.4A

⑤ Driver max power supply voltage

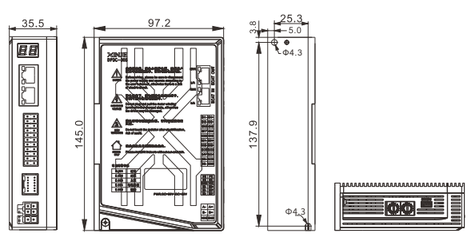
Sign	Current
5	50V
8	80V

Driver specification

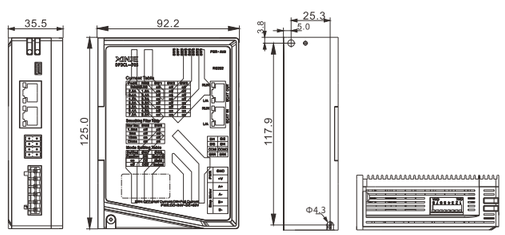
Driver model		DP3C-305	DP3C-705	DP3C-808	DP3CL-305	DP3CL-705	DP3CL-808
Input power supply voltage (VDC)		20~50	20~50	20~80	20~50	20~50	20~80
Recommended power supply voltage(VDC)		24~36	57motor recommended 24~36;86 or high-speed motor recommend48V	48Above	24~36	57motor recommended 24~36;86 or high-speed 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°C～50°C					
	Max working temperature	60°C					
	Humidity	40%～90% RH(no condensation or water droplets)					
	Vibration	5.9m/s² Max					
	Storage temperature	−20°C～65°C					

Driver dimension (Unit: mm)

DP3C-305,DP3C-705,DP3C-808

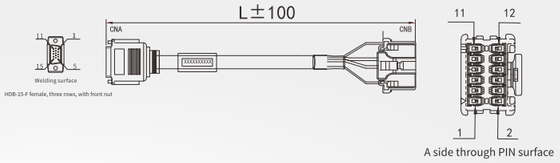


DP3CL-305,DP3CL-705,DP3CL-808



Accessories

Encoder cable

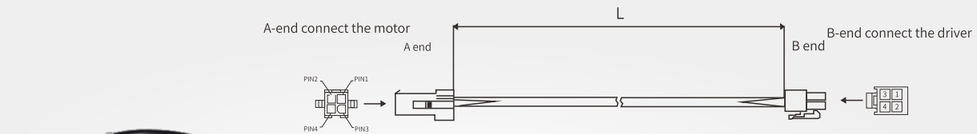


CNAside	1	2	3	11	12	13
Color	Blue	Yellow	Yellow black	Green	Green black	Blue black
Definition	A+	VCC	GND	B+	B-	A-
CNBside	11	5	6	9	10	12

*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

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

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:

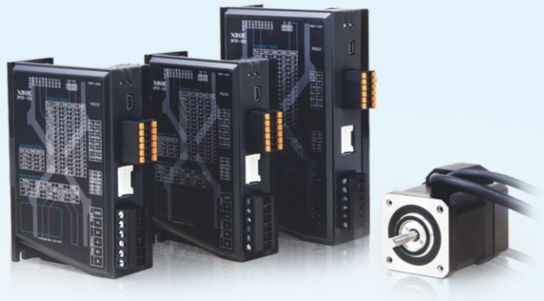
Model	Length (m)
JC-PM-20	2

Pulse type stepping driver

DP3F 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

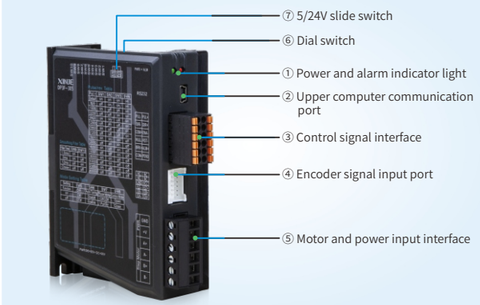
DP3L high voltage open loop pulse stepping driver

- 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.

Hardware interface

DP3F series



① Power and alarm indicator light

Color	Function
Green light	Power display PWR
Red light	Fault alarm indicator

Flashing message	Fault explanation
Flash once	Over current or short circuit
Flash continuously twice	Over voltage
Flash continuously 3 times	Under voltage
Flash continuously 4 times	Open circuit or poor contact of motor
Flash continuously 5 times	Position overlimit

② Flashing message

Signal	Explanation
TXD	RS232 send
RXD	RS232 receive
GND	RS232 ground

*Note: please use the special cable providedby Xinje company for communication. RS232 default communication parameters: baud rate 115200bps, data bit 8, stop bit 1, even parity, station no.1.

*Note: when a fault occurs, the indicator light flashes continuously, pauses for one second and then flashes continuously.

③ Control signal interface

Signal	Function
PUL+	Pulse control signal
PUL−	
DIR+	Direction control signal
DIR−	
ENA-	Enable input signal
RST-	Alarm clear input signal
COM+	Input signal common terminal
ALM+	Alarm output signal
PEND+/Z	In place/Z signal output
BRK+	Brake output signal
COM-	Output signal common terminal

④ Output signal common terminal

Sign	Name
NC	Reserved signal
NC	Reserved signal
NC	Reserved signal
NC	Reserved signal
VCC	5V power supply output, provided by the driver, only for encoder power supply
GND	
EZ+	Encoder Z phase signal +
EZ-	Encoder Z phase signal -
EB+	Encoder B phase signal +
EB-	Encoder B phase signal -
EA+	Encoder A phase signal +
EA-	Encoder A phase signal –

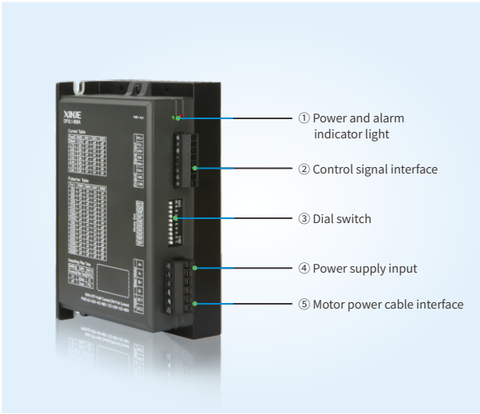
⑤ Motor and power input interface

Interface	Function
A+, A-	Motor phase A
B+, B-	Motor phase B
GND	DC power supply ground
+V	DC power supply +

⑥ Dial switch

Dial switch	Function
SW1-SW4	Subdivision setting
SW5	Motor operation initial direction selection
SW6	Z/in place signal
SW7	Control signal pulse mode selection
SW8	Open/closed loop selection
SW9	Command smooth filter
SW10	

DP3L1 series



① Power and alarm indicator light

Color	Function
Green light	Power display PWR
Red light	Fault alarm indicator

*Note: when a fault occurs, the indicator light flashes continuously, pauses for one second and then flashes continuously.

Flashing message	Fault explanation
Flash once	Over current or short circuit
Flash continuously twice	Over voltage
Flash continuously 4 times	Open circuit or poor contact of motor

② Control signal interface

Interface	Function
PUL+	Pulse signal input +
PUL-	Pulse signal input –
DIR+	Pulse direction input +
DIR-	Pulse direction input –
ENA+	Enable/release signal input +
ENA-	Enable/release signal input –
ERR	Driver error signal output
COM	Error signal ground

③ Dial switch

Dial switch	Function
SW1~SW3	Dynamic current setting
SW4	Half/full current setting
SW5~SW8	Subdivision accuracy setting

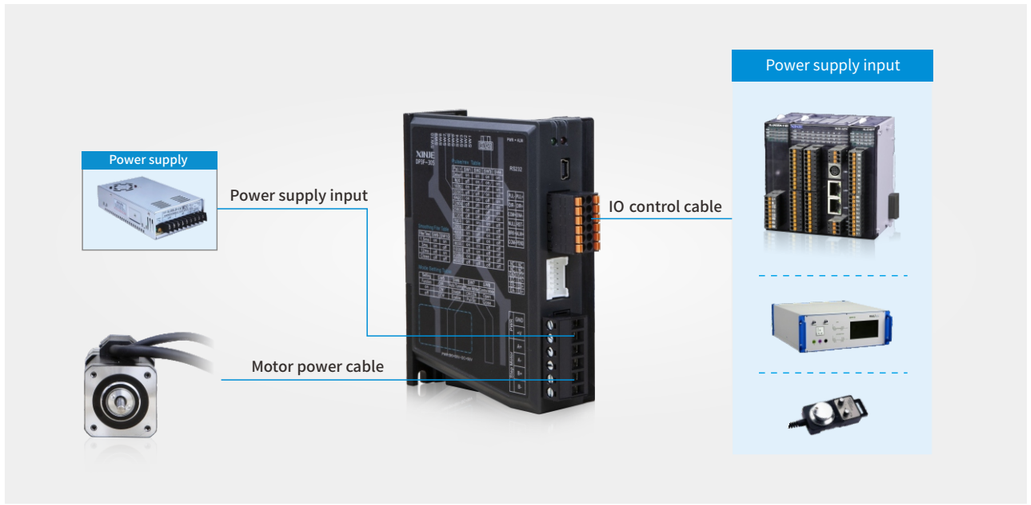
④ Power supply interface

Interface	Function
GND	DC power supply ground
+V	DC power supply +

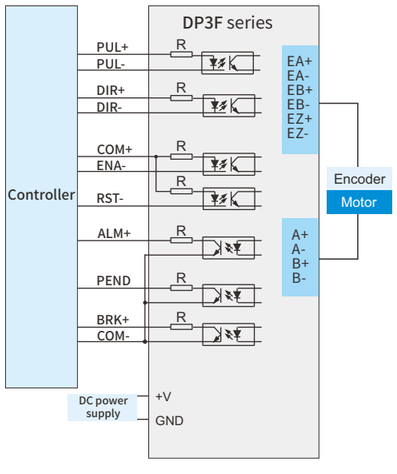
⑤ Motor power cable interface

Interface	Function
A+, A-	Motor phase A
B+, B-	Motor phase B

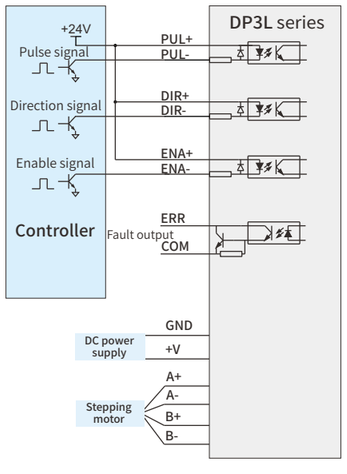
Driver peripheral circuit



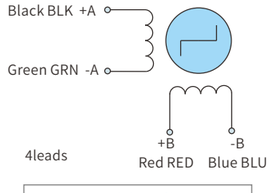
Driver wiring diagram



Closed-loop system wiring diagram



Open loop system wiring diagram



Motor wiring diagram

Product model

Driver naming rule

DP3 L - 110 22 A 3
① ② ③ ④ ⑤ ⑥

① Name

Sign	Product name
DP3	Stepping driver

② Series

Sign	Product series
F	Closed-loop type
L	Open loop type
L1	Driver type

③ Driver output peak current

Sign	Current
22	2.2A
30	3.0A
42	4.2A
56	5.6A
70	7.0A
80	8.0A
110	11.0A

④ Driver max power supply voltage

Sign	Voltage
4	40V
5	50V
8	80V
22	220V

⑤ Voltage type

Sign	Power supply type
A	AC/DC power supply
None	DC power supply

⑥ Driver type

Sign	Driver type
3	Three-phase driver
None	Two-phase driver

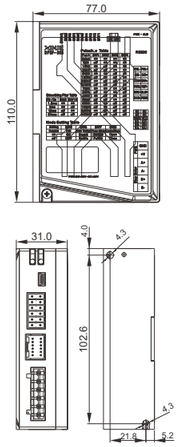
Driver specification

		DP3F closed-loop pulse type			
Driver model		DP3F-305	DP3F-705	DP3F-808	DP3F-808A
Basic specification	Input power supply voltage (V)	DC 20~50	DC 20~50	DC 20~80	AC 20~80
	Output current peak value (A)	1~3	1~7	1~8.4	1~8.4
	Adaptive motor (base)	42	57/86	86	86
	Dimension (mm)	110*77*31	110*77*31	135*86.7*35.5	131*112.2*35
	Stepping pulse frequency (kHz)	24V signal 200K, 5V differential signal 500K			
	Control signal input voltage (VDC)	5/24(slide switch setting)			
Use environment	Use occasion	Avoid dust, oil mist and corrosive gas			
	Ambient temperature	0℃~50℃			
	Max working temperature	60℃			
	Humidity	40%~90% RH (no condensation or water droplets)			
	Vibration	5.9m/s^2 Max			
	Storage temperature	−20℃~65℃			

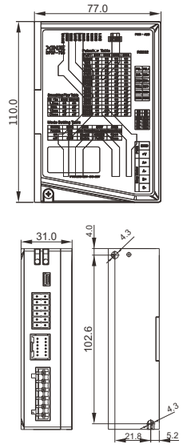
		DP3L1 economic open-loop pulse type				DP3L1 open loop IO type	DP3L high voltage open loop pulse type
Driver model		DP3L1-224	DP3L1-565	DP3L1-805A	DP3L1-808A	DP3L1-565-IO	DP3L-11022A3
Basic specification	Input power supply voltage (V)	DC 20~40	DC 20~50	DC20-80/AC20-50	DC 20~110/AC20~80	DC 20~50	AC 200~240
	Output current peak value (A)	0.5~2.2	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	86	86	57/86	86/110/130
	Dimension (mm)	80*55*21.3	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)	200 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℃~50℃					
	Max working temperature	60℃					
	Humidity	40%~90% RH(no condensation or water droplets)					
	Vibration	5.9m/s^2 Max					
	Storage temperature	−20℃~65℃					

Driver dimension (Unit: mm)

DP3F-305



DP3F-705



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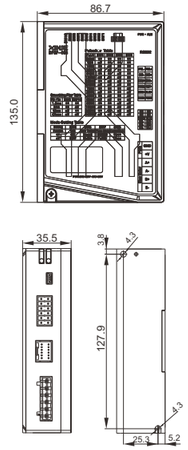

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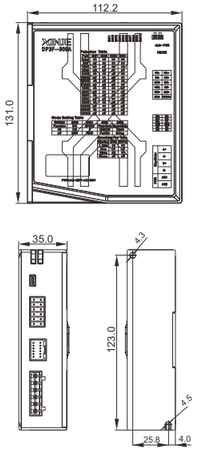
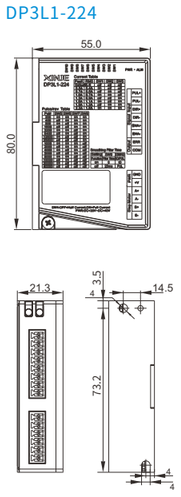
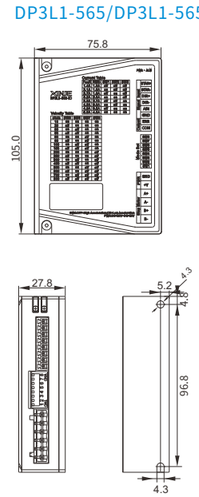


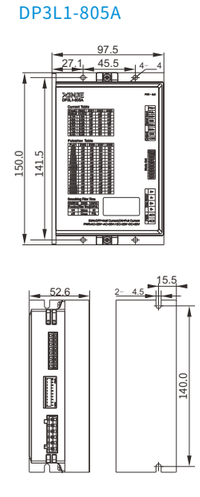
DP3L1-224



DP3L1-565/DP3L1-565-IO



DP3L1-805A



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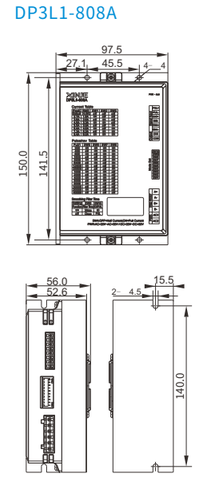
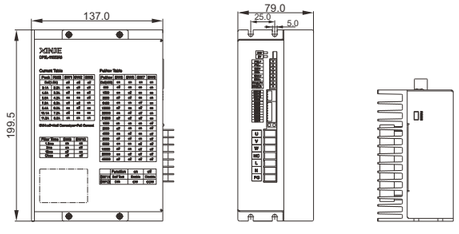


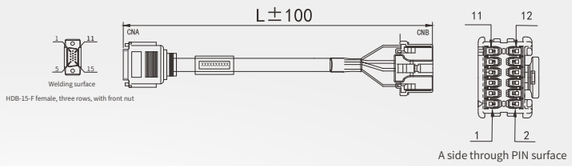
DP3L-11022A3



Accessories

*Note: suitable for DP3F series

Encoder cable

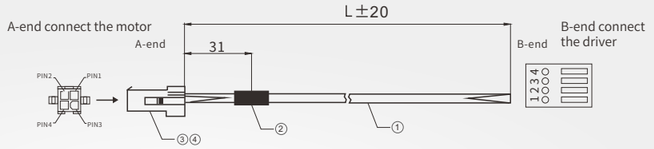


CNAside	1	2	3	11	12	13
Color	Blue	Yellow	Yellow black	Green	Green black	Blue black
Definition	A+	VCC	GND	B+	B-	A-
CNBside	11	5	6	9	10	12

*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

Length

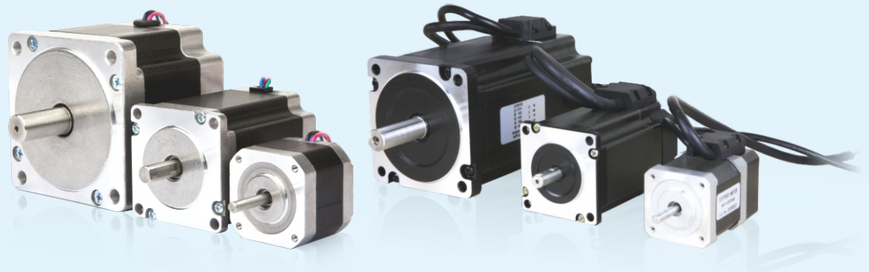


A-endPIN	1	2	3	4
Definition	B+	A+	A-	B-

*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

Stepping motor



Motor naming rule

MP3- 57 H □ □ 076 -□

① ② ③ ④ ⑤ ⑥ ⑦

① Name

Sign	Product name
MP3	Stepping motor

② Base number

Sign	Base number
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 Body length

Sign	Body length
040	40mm
048	48mm
056	56mm
060	60mm
065	65mm
076	76mm
080	80mm
088	88mm
118	118mm
150	150mm

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		Base number (mm)	Step angle (°)	Holding torque (N.m)	Phase current (A)	Motor shaft	Motor shaft diameter (mm)	Adaptive driver
Standard series	Brake series							
MP3-42T048	/	42	1.8	0.5	1.68	Flat	5	DP3F/C-305
MP3-42T060	/		1.8	0.8	1.7	Flat	5	
MP3-57T056	/	57	1.8	1.3	4	Flat	8	DP3F/C-705
MP3-57T056-D6.35	/		1.8	1.3	4	Flat	6.35	
MP3-57T076	MP3-57TZ076		1.8	2.3	5	Flat	8	
MP3-57T088	MP3-57TZ088		1.8	3	5	Flat	8	
MP3-57T110	/		1.8	3	4	Flat	8	
MP3-60T088	MP3-60TZ088	60	1.8	3	5	Flat	8	
MP3-86T080	MP3-86TZ080	86	1.8	4.5	6	Flat key 5*25	14	DP3F/C-808
MP3-86T080-D12.7	/		1.8	4.5	6	Flat key 5*25	12.7	
MP3-86T098	MP3-86TZ098		1.8	8	6	Flat key 5*25	14	
MP3-86T118	MP3-86TZ118		1.8	8.5	6	Flat key 5*25	14	
MP3-86T118-D12.7	/		1.8	8.5	6	Flat key 5*25	12.7	
MP3-86T150	MP3-86TZ150		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		Base number (mm)	Step angle (°)	Holding torque (N.m)	Phase current (A)	Motor shaft	Motor shaft diameter (mm)	Adaptive driver
Standard series	Brake series							
MP3-110H3153	/	110	1.2	12	6	Flat key 6*30	19	DP3L-11022A3
MP3-110H3186	/		1.2	16	6.4	Flat key6*30	19	
MP3-110H3221	/		1.2	20	6.9	Flat key 6*30	19	
MP3-130H3223	/	130	1.2	28	6.9	Flat key 8*36	24	
MP3-130H3255	/		1.2	35	6.9	Flat key 8*36	24	
MP3-130H3319	/		1.2	50	6.9	Flat key 8*36	24	

Adaptation table of two-phase open loop motor and driver

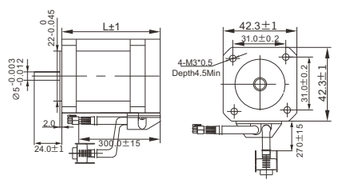
Open loop motor model		Base number (mm)	Step angle (°)	Holding torque (N.m)	Phase current (A)	Motor shaft	Motor shaft diameter (mm)	Adaptive driver
Standard series	Brake series							
MP3-42H040	/	42	1.8	0.46	1.7	Flat	5	DP3CL-305 DP3L-224
MP3-42H048	/		1.8	0.5	1.68	Flat	5	
MP3-42H060	/		1.8	0.8	1.7	Flat	5	
MP3-57H044	/	57	1.8	0.6	3	Flat	8	DP3CL-705 DP3L-425/565
MP3-57H056	MP3-57HZ056		1.8	1.3	4	Flat	8	
MP3-57H056-D6.35	/		1.8	1.2	4	Flat	6.35	
MP3-57H076	MP3-57HZ076		1.8	2.3	5	Flat	8	
MP3-57H088	MP3-57HZ088		1.8	3	5	Flat	8	
MP3-57H110	/		1.8	3	4	Flat	8	
MP3-60H088	MP3-60HZ088	60	1.8	3	5	Flat	8	
MP3-86H065	MP3-86HZ065	86	1.8	3.5	4	Flat key 5*25	14	DP3CL-808 DP3L-808
MP3-86H065-D12.7	/		1.8	3.5	4	Flat key 5*25	12.7	
MP3-86H080	MP3-86HZ080		1.8	4.5	6	Flat key 5*25	14	
MP3-86H080-D12.7	/		1.8	4.5	6	Flat key 5*25	12.7	
MP3-86H098	MP3-86HZ098		1.8	8	6	Flat key 5*25	14	
MP3-86H098-D12.7	/		1.8	8	6	Flat key 5*25	12.7	
MP3-86H118	MP3-86HZ118		1.8	8.5	6	Flat key 5*25	14	
MP3-86H118-D12.7	/		1.8	8.5	6	Flat key 5*25	12.7	
MP3-86H150	MP3-86HZ150		1.8	12	6	Flat key 5*25	14	

Motor mounting dimension (Unit: mm)

Closed-loop motor

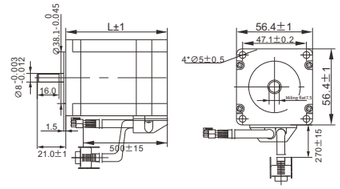
42 series

Model	L(mm)	
	General	With brake
MP3-42T048	66	97
MP3-42T060	78	109



57 series

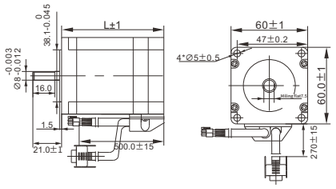
Model	L(mm)	
	General	With brake
MP3-57T056	76	116
MP3-57T076	96	136
MP3-57T110	130	150



Large 57 series

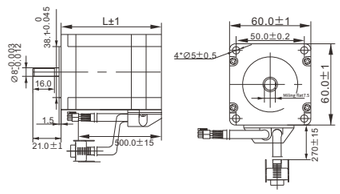
Model	L(mm)	
	General	With brake
MP3-57T088	110	150

*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.



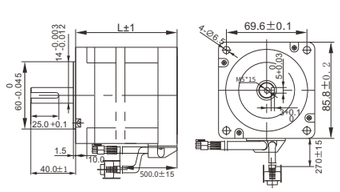
60 series

Model	L(mm)	
	General	With brake
MP3-60T088	110	150



86 series

Model	L(mm)	
	General	With brake
MP3-86T080	106	149
MP3-86T098	122	155
MP3-86T118	144	187
MP3-86T150	174	217

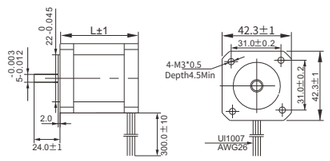


Motor mounting dimension (Unit: mm)

Two-phase open loop motor

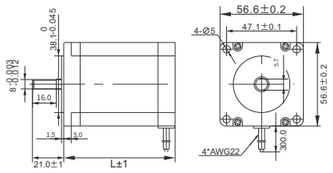
42 series

Model	L(mm)	
	General	With brake
MP3-42H040	39.5	70
MP3-42H048	48	79
MP3-42H060	60	91



57 series

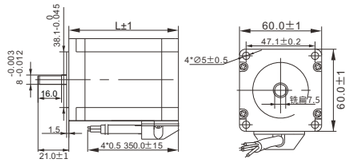
Model	L(mm)	
	General	With brake
MP3-57H056	56	96
MP3-57H076	76	116
MP3-57H110	110	150



General 57 series

Model	L(mm)	
	General	With brake
MP3-57H088	88	128

*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.

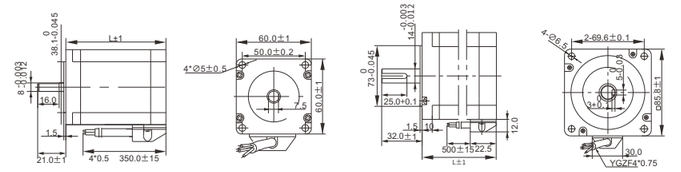


60 series

Model	L(mm)	
	General	With brake
MP3-60H088	88	128

86 series

Model	L(mm)	
	General	With brake
MP3-86H065	65	108
MP3-86H080	80	123
MP3-86H098	98	141
MP3-86H118	118	161
MP3-86H150	150	193



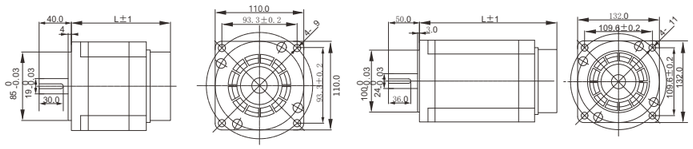
Three-phase open loop motor

110 series

Model	L(mm)	
	General	With brake
MP3-110H3153	151	/
MP3-110H3186	185	/
MP3-110H3221	219	/

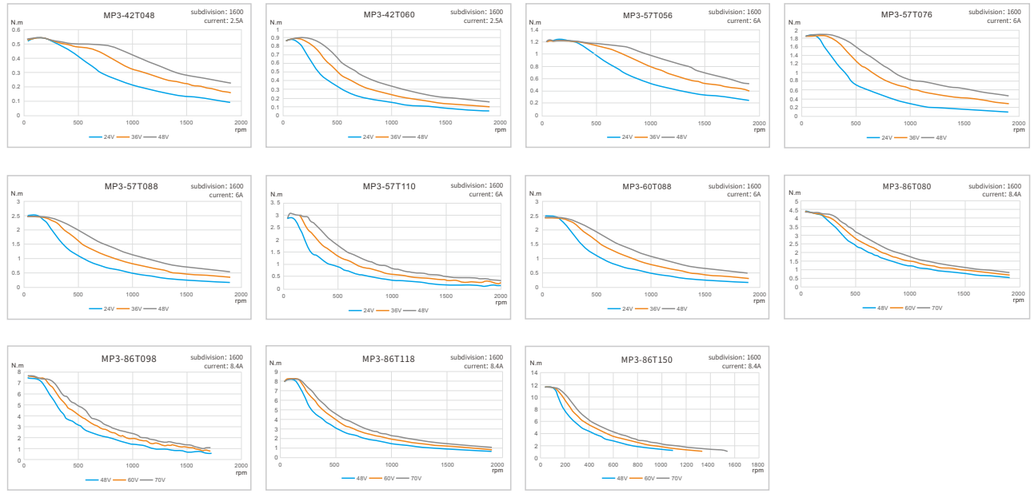
130 series

Model	L(mm)	
	General	With brake
MP3-130H3223	222	/
MP3-130H3255	254	/
MP3-130H3319	319	/

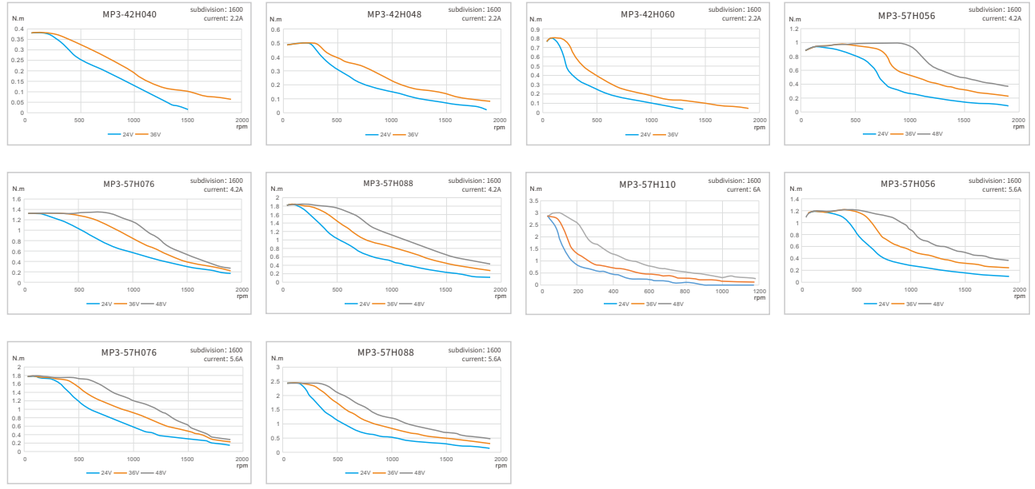


Motor torque frequency characteristic diagram

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

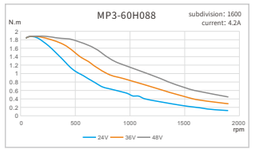


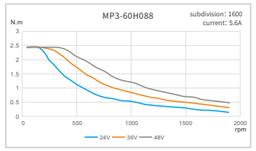
Two-phase open loop series (the follow current is peak current)

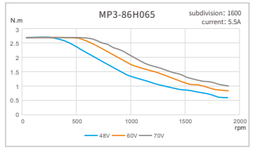


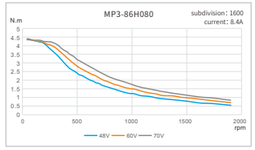
Motor torque frequency characteristic diagram

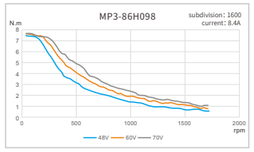
Two-phase open loop series (the follow current is peak current)

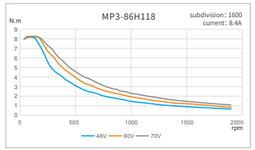


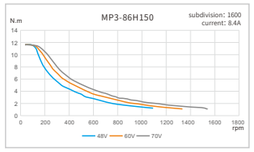




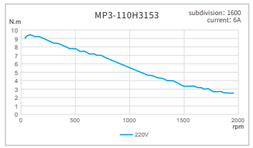


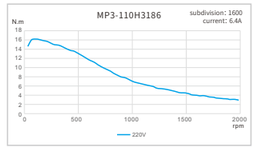


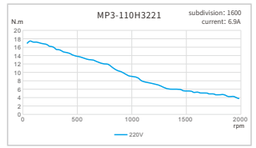


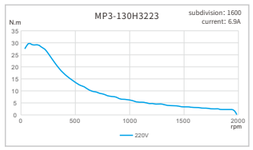


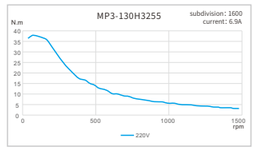
Three-phase open loop series (the follow current is peak current)











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Vision system

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