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DELIXI
ELECTRIC



Motion Control Products Catalog

Servo drives | Servo motors | PLC | HMI | Industry Solutions

DELIXI HANGZHOU INVERTER CO.,LTD.

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Crafted with Integrity Driving the Future

Company Profile

As the 1st generation of outstanding private enterprises in China's reform and opening up, after nearly four decades of unremitting efforts and with the long-term trust and support of customers and partners, Delixi Group joined forces with Schneider Electric, a Fortune Global 500 company, to establish Delixi Electric Co., Ltd. (hereinafter referred to as "Delixi Electric") in 2007.

Delixi Electric has businesses covering three major fields, namely power distribution, industrial automation control, and household electrical, committed to a professional, safe, reliable, efficient & nice industrial automation and household electricity environment for customers in emerging markets worldwide with high-quality and more excellent products & services, exploring a new model for the development of enterprises in China's low-voltage electrical industry.

Focusing on the interests of customers & partners, we adhere to the business philosophy of technological innovation, quality assurance, five-star service, and brand driver to create a new ecosystem across the electrical industry chain. So far, we have business footprints across China and 60 countries & regions around the globe, with 4 large automated industrial production bases and 15 logistics centers, committed to creating the best closed-loop customer experience in the world.













Delixi (Hangzhou) Inverter Co., Ltd, a key member of Sino-French joint venture Delixi Electric Co., Ltd.,is a national high-tech enterprise recognized as a "Specialized, Refined, Distinctive, and Innovative SME" in Zhejiang Province. Specializing in the field of industrial automation control, it is a leading domestic supplier of industrial automation products and solutions, integrating R&D, production, sales, and technical services.

Committed to independent innovation, the company has established a comprehensive R&D system equipped with six laboratories and testing zones, including electromagnetic compatibility, environmental reliability, high-precision dynamic performance, and industry-specific machinery. It is designated as a High-tech Enterprise R&D Center in Hangzhou. The company operates a standardized production base and continuously adopts advanced domestic and international technologies as well as state-of-the-art production and testing equipment. Its facilities include multiple automated production lines, an intelligent SMT workshop, and automated conformal coating systems. The company is also ISO9001:2015 certified for international quality management.

With over 20 years of development, the company has built a diverse portfolio of industrial control products, including frequency inverter, servo drive, soft starter, HMI, PLC, and industry-tailored solutions. Its technologies span the information interaction layer, control layer, drive layer, and execution layer. Having accumulated comprehensive solutions across industries such as machine tools, textiles, packaging, printing, woodworking, logistics, and food processing, the company significantly enhances its customers' automation and production efficiency.

To better serve its clients, the company has established a systematic nationwide sales and service network with branch offices and technical service centers in key cities. It also actively expands into emerging international markets, continually improving its global sales network through overseas offices that integrate marketing and service. Products are now exported to regions including Southeast Asia, Central Asia, the Middle East, South America, and Africa, with export volume growing rapidly year by year.

"Crafted with Integrity, Driving the Future." Upholding the core values of "Customer First, Collaboration, Agility, Innovation, and Excellence," Delixi (Hangzhou) Inverter Co., Ltd remains dedicated to continuous innovation, earning the trust of its customers through high-quality products and exceptional service.

Family of motion control products

Industry Solutions

Package | Textile | Machine tool | Print | Carpentry | Food | Logistics | Laser

Information interaction layer



CDH-B series touch screen



CDH-C series touch screen

Motion control layer



DE6V series PLC



CDC5 series PLC

Driver Layer



CDS590 series servo drive



CDS560 series servo drive



CDS500 series servo drive



CDS501 series servo drive



EC bus type servo drive



M3 bus type servo drive

Execution Layer



DMA series 4-pole servo motor





DMB series 5-pole servo motor

DELIXI
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CATALOG

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- CDS500
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CDS590





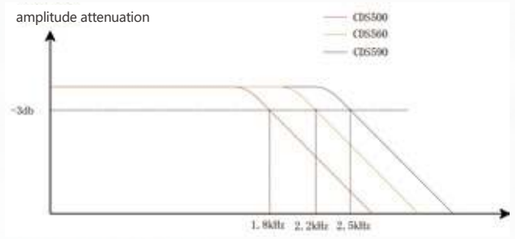
CDS590 series It is a new generation of high-performance universal servo drive, which has achieved comprehensive upgrades in dynamic and steady-state performance, adaptive algorithms, mechanical inclusiveness, convenient debugging, and process functions.

It has the characteristics of small size, comprehensive functions, powerful performance, stability and reliability, and can be applied to various industries such as machine beds, lasers, packaging, food, textiles, robotic arms, die-cutting, printing, and various automated production equipment.

High performance precise control

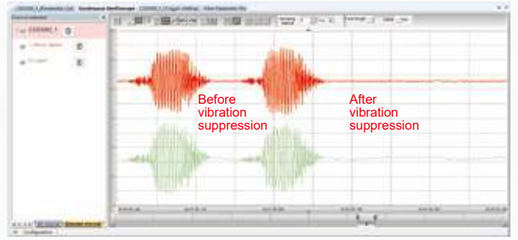
new upgrade of performance algorithm

The velocity loop bandwidth has been increased to 2.5 kHz, delivering faster settling time and higher precision.



notch filter

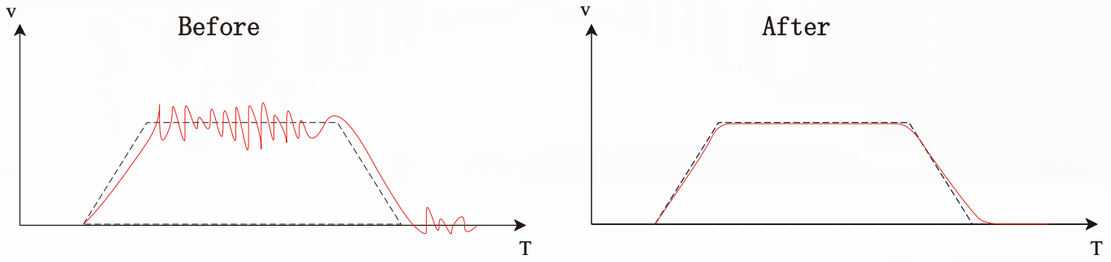
Configure 4 sets of notch filters to effectively suppress mechanical resonance and improve system stability, with a filtering range of 100Hz~4000Hz.



Streamlined Commissioning and Maintenance

One click self-tuning

It performs real-time auto-tuning of inertia, gain, and resonance suppression parameters, minimizing manual intervention.



Safe and reliable

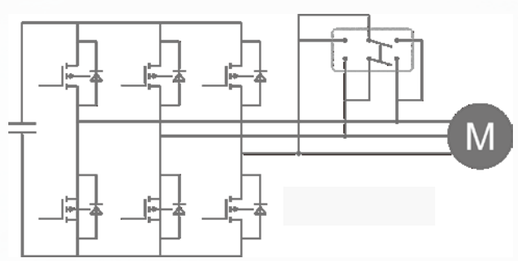
EMC optimized design

Rigorous testing and validation enhance the equipment's immunity to on-site interference, ensuring reliable performance in harsh electromagnetic environments.



Configure dynamic braking

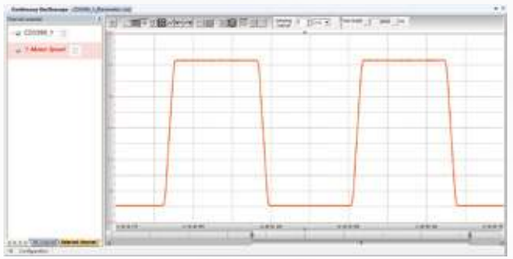
The built-in dynamic braking activates for rapid, energy-dissipating motor stoppage during faults, emergency stops, or power loss.



Integrated application functionality

Internal position setting

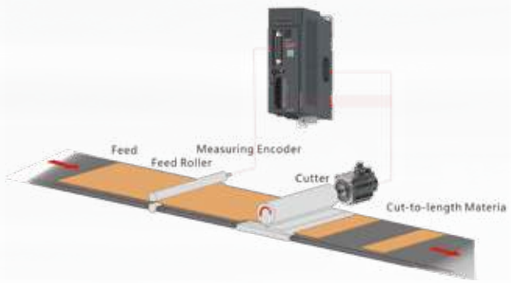
The system provides 16 internal position registers. For each register, you can configure the pulse count per move, speed, acceleration/deceleration time, and dwell time. It also supports setting the displacement unit in engineering units.



*Electronic cam

Software-defined motion profiles, high-precision synchronization, and changeover-free flexible production.

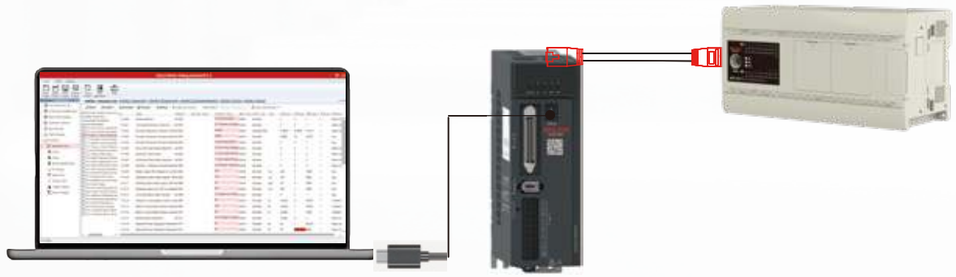
*This feature is gradually being improved



Powerful software support

DHI.DriveSoft Servo debugging software

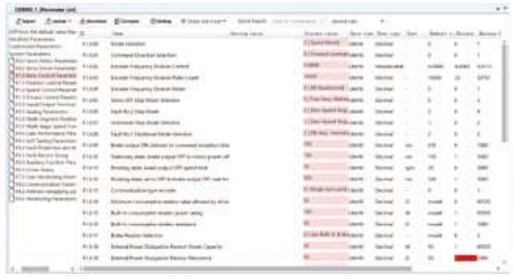
Supporting both RS485 and Type-C connections, the new PC debugging tool boasts a clean interface, straightforward operation, and a full set of features.





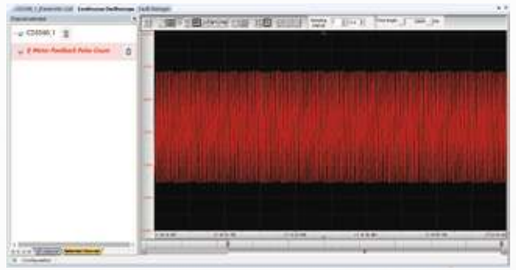
Real time parameter management

The system enables real-time parameter management—monitoring and editing—with the ability to batch upload/download selected parameters using custom groups.



Continuous oscilloscope

Real-time data monitoring, cursor-based precise measurement, and accurate servo status tracking.



Trigger oscilloscope

It captures data at 50 μs resolution, enabling custom channel and trigger configuration. This empowers highly effective troubleshooting.



IO settings

The system provides real-time monitoring of digital I/O status, while also enabling the functional assignment of individual terminals.



JOG function

Direct PC-based JOG testing (speed/position) and streamlined equipment verification, with no parameter configuration needed.



STune intelligent tuning

Built-in STune auto-tuning and one-touch optimization for rigidity, inertia, and vibration suppression.



Naming convention for servo drives

CDS 590 – 2S 045 H C

① ② ③ ④ ⑤ ⑥

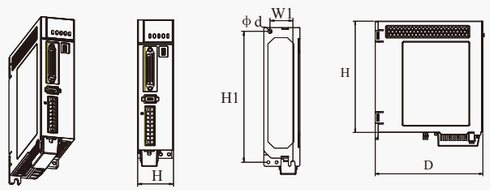
SN	Field	Description	
①	product series	**CDS:** Delixi servo drive	
②	servo drive serial number	**590**：590 series	
③	rated voltage	**2S**：single-phase 220V（200V~240V，-10%~+10%，50/60Hz）	**2T**：three-phase 220V（200V~240V，-10%~+10%，50/60Hz）
		4T：single-phase/three-phase 380V（340V~420V，-10%~+10%，50/60Hz）	
④	rated output current	**028**：2.8A **030**：3.0A **045**：4.5A **060**：6.0A **085**：8.5A	
		100：10.0A **120**：12.0A **140**：14.0A **200**：20.0A	
⑤	encoders	**H**：Matched communication encoder	
⑥	hardware suffix identification	**None**：Default 3 DI,3 DO, no dynamic braking	**A**：3 DI,3 DO，dynamic braking
		B：8 DI,4 DO, no dynamic braking	**C**：8 DI,4 DO，dynamic braking

Model and external dimensions

Type			Appearance structure
single-phase 220V	three-phase 220V	three-phase 380V	
CDS590-2S028H	/	/	SIZE-A
CDS590-2S030H	/	/	SIZE-B
CDS590-2S045H			
CDS590-2S060H			
CDS590-2S100H	CDS590-2T100H	CDS590-4T085H	SIZE-C
CDS590-2S140H	CDS590-2T140H	CDS590-4T120H	
/	CDS590-2T200H	CDS590-4T200H	SIZE-D

SIZE-A

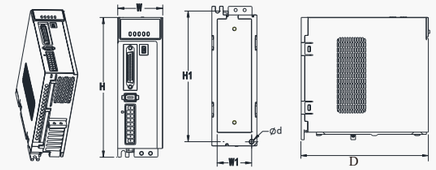
（Unit：mm）



W	W1	H	H1	D	φd
44	28	160	160	155	5

SIZE-B

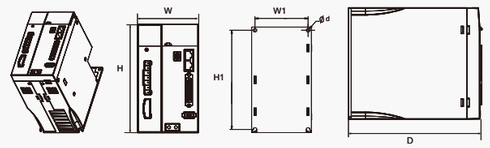
（Unit：mm）



W	W1	H	H1	D	φd
55	41.7	170	159.5	177.3	5

SIZE-C

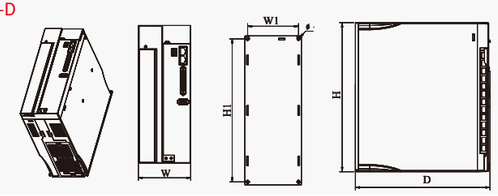
（Unit：mm）



W	W1	H	H1	D	φd
90	80	166	156	189.6	5

SIZE-D

（Unit：mm）



W	W1	H	H1	D	φd
100	90	251	241	237.7	5.5

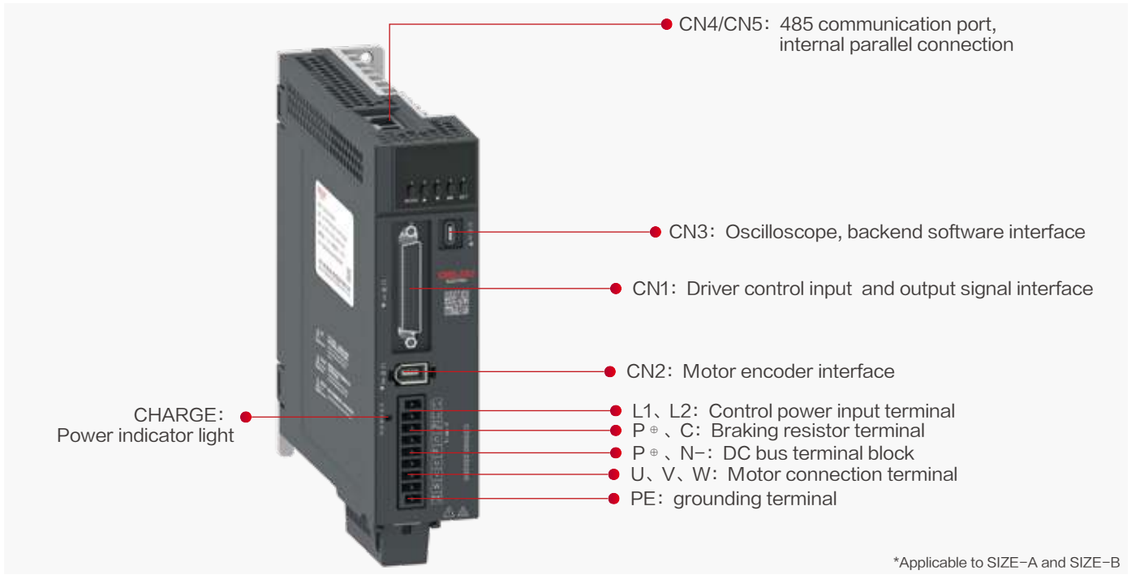
Technical Specifications

Specification		Explanation
Power Supply		AC 220V（200V - 240V，0.4kw-3kw，2.8A-14A）
		AC 380V（340V - 420V，1kw-7.5kw，8.5A-20A）
Control Mode		Position control, speed control, torque control
		Position/speed switching
		Speed/Torque switching
		Position/Torque switching
Encoder Feedback		Communication encoder
Regenerative Braking		Built-in, external
Configuration	P24V Power Supply	P24V-COM,The maximum output is 200mA
	P5V Power Supply	P5V-GND,The maximum output is 200mA
	Pulse Input	P_HI、PULSE+、PULSE-、S_HI、SGN+、SGN-,Differential input, open-circuit collector input
	Digital Input	3 digital input terminals (DI1, DI2, DI3); **(Optional)** 8-channel digital input terminals (D11-DI8); It can be powered by either an internal power supply or an external power supply
	Digital Output	3 digital output terminals (DO1, DO2, DO4); **(Optional)**4 digital output terminals (DO1 to DO4); The maximum output is 200mA
	Analog Input	1 analog input (AIN),DC±10V, 12-bit conversion accuracy
	Analog Output	(Optional)1 analog output (AO1+, AO1-),DC±10V, minimum output 1mA
	Frequency Division Output	Differential output (≤500khz), collector output (≤10khz)
	Encoder	USB communication encoder
	Communication Function	Upper computer communication software (direct connection to port C)
		Ethercat (EC bus communication, signal transmission rate 100Mbps, synchronization error 15ns and synchronization jitter ±20ns can be achieved through distributed clocks)
		RS485, modbus communication
		M3 (Supports Mechatrolink-III communication, with a transmission speed of 100Mbps, capable of connecting up to 62 stations, and has a maximum transmission distance of 100m)

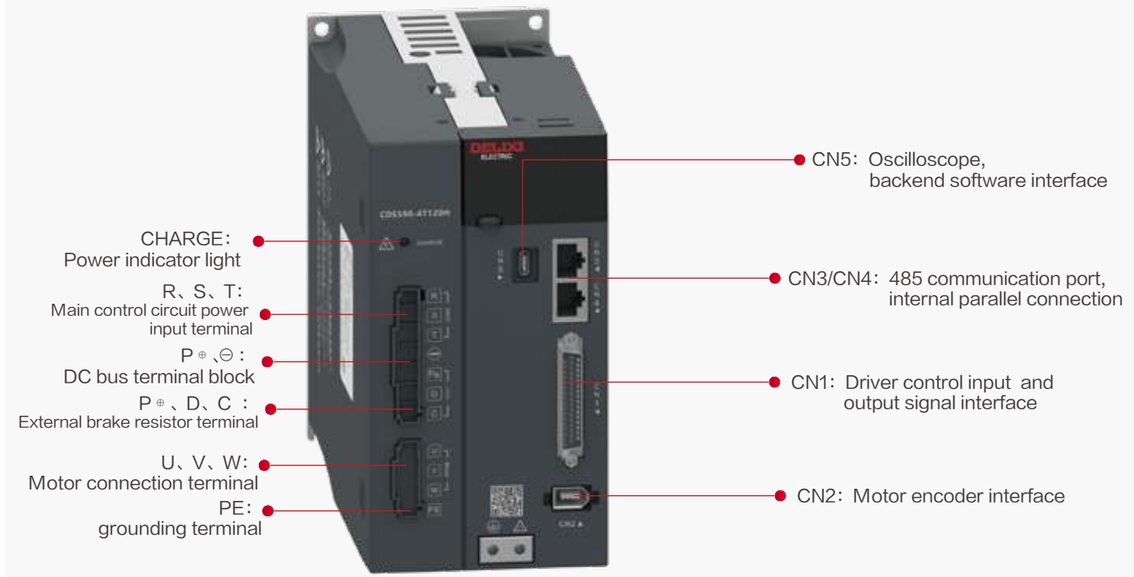
Technical Specifications

Specification		Explanation
Control Characteristics	Speed Bandwidth Response	2KHz
	Speed Volatility	<± 1.5% (load 0-100%); <± 0.3% (power supply -15% to +10%)(the value corresponds to the rated speed)
	Speed Regulation Ratio	1:30000
	Input Pulse Frequency	≤500kHz
Position Control	Input Method	① Pulse + symbol ②CW pulse +CCW pulse ③ Orthogonal AB phase pulse
	Electronic Gear Ratio	1～65535/1～65535
	Analog Input	0-10V/4-20mA
Speed Control	Control Input	Internal speed command selection
	Control Output	Speed Reached
	Analog Input	After making relevant Settings based on analog voltage or current, it becomes a speed command
	Internal Speed Command	Switch 8 speed segments according to the input of external control instructions
	Acceleration and Deceleration Adjustment	Acceleration and deceleration can be set separately, and curve selection is also available
Torque Control	Analog Input	The analog torque command input can be adjusted according to the analog quantity
	Digital Input	Set according to the internally specified parameters
Feedback Method		Encoder feedback at the motor shaft end
Parameter Setting Method		① The keyboard of this machine is set for input. ② RS485 MODBUS communication input
Use Load Inertia		Less than 20 times the inertia of the motor
Braking Mode		Resistive energy consumption braking, dynamic braking **(optional)**
Environment	Working Temperature	0-55℃ (At 45 -55℃, derating by 80%)
	Storage Temperature	-20~70℃(Not frozen)
	IP Rating	IP20
	Altitude	Below 1,000 Meters in altitude

Port distribution



*Applicable to SIZE-A and SIZE-B



*Applicable to SIZE-C and SIZE-D

Typical application areas


laser


Tapping and tapping machine


Winding machine


Packaging


Food


Textile


Mechanical arm


Die-cutting machine


Printing

CDS560



CDS560(impulsive) :

2S series:

2.8A ~ 6A single-phase 220V

10A ~ 14A single-phase / three-phase 220V

4T series:

8.5A~12.0A three-phase 380V

Control mode:

Position control, speed control, torque control, internal speed control; internal position control, etc.

Communication protocol:

485 communication

Product characteristics

Power coverage: Full coverage within the power section of 100W ~ 5.5kW
Responsiveness: Bandwidth of speed ring 2kHz
Encoder: 17-bit magnetic encoder, 17-bit optical encoder and 23-bit optical encoder
Usability: Multiple sections and speeds internally, to restrain the vibration
Self-adaption parameter: Inertia identification, zero position identification, rigid rating function
Expansibility:
- Bluetooth module: Wireless control via APP, to monitor the running conditions
- Backstage software: Connect PC terminal, to upload status and downloadparameters

Model characteristics:
-Plug and play terminal is designed to be more reliable and convenient
-Optimize the layout of board lines for stronger interference resistance
-External brake resistors make switching easier

Rules of naming

Nameplate data: Take Model CDS560-2S030HA as example

CDS 560 – 2S 030 H A

Delixi servo drive

Product serial number
CDS560 series: 560

Voltage grade (rated voltage)
2S: Single-phase 220V, 50/60Hz
4T: Single-phase/3-phase 380V, 50/60Hz

Rated output current
2S: 030:3.0A 045:4.5A
060:6.0A 100:10.0A 140:14.0A
4T: 085:8.5A 120:12.0A

Subdivision bit of drive that is matched with different encoders:
H: Matched communication encoder

Hardware suffix identification
Blank: Default 3 DI,3 DO, no AO, no dynamic braking
A: 3 DI,3 DO, no AO, dynamic braking
B: 8 DI,4 DO, AO, no dynamic braking
C: 8 DI,4 DO, AO, dynamic braking

◎ Product Model

Drive Model	Rated Output Current	Max. Output Current	Brake Resistance	Voltage Grade Main circuit	Appearance
2S (Single-phase 220V±10%, 50/60Hz)					
CDS560-2S028H	2.8A	8.4A	/	Single-phase 220V	SIZE-A
CDS560-2S030H	3.0A	9A	Built-in as standard configuration	Single-phase 220V	SIZE-B
CDS560-2S045H	4.5A	13.5A		Single-phase 220V	SIZE-B
CDS560-2S060H	6.0A	18A		Single-phase 220V	SIZE-B
CDS560-2S100H	10A	30A		Single-phase/ 3-phase 220V	SIZE-C
CDS560-2S140H	14A	42A			SIZE-C
4T (3-phase 380V±10%, 50/60Hz)					
CDS560-4T085H	8.5A	25.5A	Built-in as standard configuration	3-phase 380V	SIZE-C
CDS560-4T120H	12A	36A			SIZE-C

◎ Technical specifications

Item		Specification
Control mode		Position control, speed control, torque control
Encoder feedback		Communication type encoder
Regenerative braking		Built-in, external
Configuration	P24V power supply	P24V-COM, the max. output is 200mA
	P5V power supply	P5V-GND, the max. output is 200mA
	Pulse input	P_HI, PULSE+, PULSE-, S_HI, SGN+, SGN-, support differential input and open collector input
	Digital input	3-way digital input terminal (DI1, DI2, DI3); **(optional)** 8-way digital input terminal (DI1~DI8), both internal power supply and external power supply can be used
	Digital output	3-way digital output terminal (DO1, DO2, DO4); **(optional)** 4-way digital output terminal (DO1~DO4), the max. output is 200mA
	Analog input	1-way analog input (AIN), DC±10V, 12-bit conversion precision
	Analog output	**(optional)** 1-way analog output (AO1+, AO1-), DC±10V, min. output 1mA
	Frequency dividing output	Differential output (≤500khz), collector output (≤10khz)
Control characteristics	Speed-bandwidth response	2KHz
	Speed fluctuation ratio:	<±1.5% (load 0~100%); <±0.3% (power supply -15~+10%) (value corresponds to the rated speed)
	Speed regulation ratio	1:30000
	Input pulse frequency	≤500kHz
Position control	Input mode	① Pulse + symbol ②CW pulse + CCW pulse ③ Orthogonal Phase AB pulse
	Electronic gear ratio	1～65535/1～65535
Feedback mode		Feedback of motor shaft end encoder
Parameter setting method		① Setting and input via local keyboard, ②RS485 MODBUS communication input
Load inertia		Below 20 times of motor inertia
Brake mode		Resistor dynamic braking，dynamic braking **(optional)**

◎Driver terminals

SIZE-A SIZE-B



CN4/CN5：485 communication port,
internal parallel connection

CN3：Oscilloscope, backend software interface

CN1：Driver control input and output signal interface

CN2：Motor encoder interface

CHARGE：
Power indicator light

L1、L2：Control power input terminal

P⊕、C：Braking resistor terminal

P⊕、N−：DC bus terminal block

U、V、W：Motor connection terminal

PE：grounding terminal

Battery case(only for SIZE−A)

SIZE-C



CHARGE：
Power indicator light

R、S、T：
Main circuit power input terminals

P⊕、⊖：
DC bus terminals

P⊕、D、C：
External braking resistor terminals

U、V、W：
Motor connection terminal

PE：grounding terminal

CN5：Oscilloscope, backend software interface

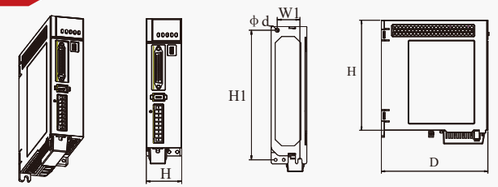
CN3/CN4：
485 communication port,
internal parallel connection

CN1：Driver control input and output signal interface

CN2：Motor encoder interface

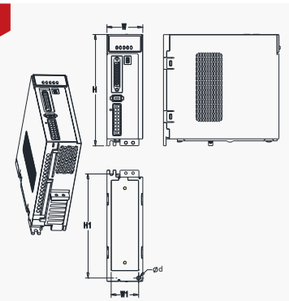
◎Product size(unit：mm)

SIZE-A



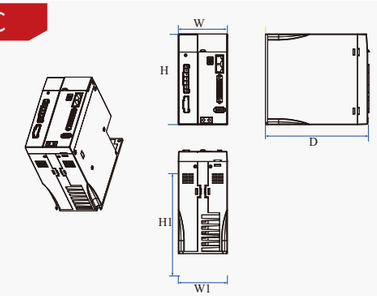
Drive model	W	W1	H	H1	D	ϕd
CDS560-2S028H	44	28	160	160	155	5

SIZE-B



Drive model	W	W1	H	H1	D	ϕd
CDS560-2S030H	55	41.7	170	159.5	177.3	5
CDS560-2S045H						
CDS560-2S060H						

SIZE-C



Drive model	W	W1	H	H1	D
CDS560-2S100H	90	80	166	156	189.6
CDS560-2S140H					
CDS560-4T085H					
CDS560-4T120H					

CDS501



CDS501:

2S series:

10A ~ 14A single-phase / three-phase 220V

4Tseries:

8.5A~12.0A three-phase 380V

Control mode:

Position control, speed control, torque control, internal speed control; internal position control, etc.

Communication protocol:

485 communication

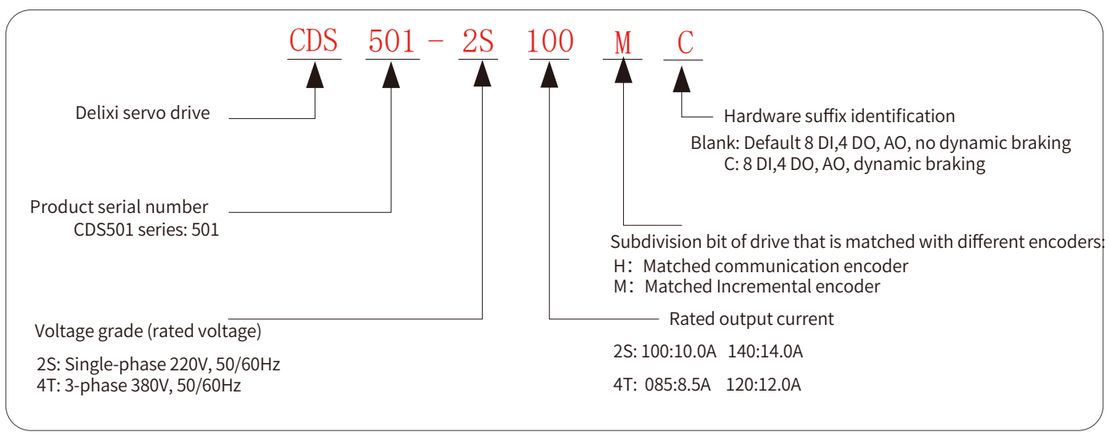
Product characteristics

Power coverage: Full coverage within the power section of 100W ~ 11kW
Responsiveness: Bandwidth of speed ring 1.6kHz
Encoder: 2500-line incremental optical encoder, 5000-line ncremental optical encoder,
17-bit magnetic encoder, 17-bit optical encoder and 23-bit optical encoder
Usability: Multiple sections and speeds internally, to restrain the vibration
Self-adaption parameter: Inertia identification, zero position identification, rigid rating function
Expansibility:
- Bluetooth module: Wireless control via APP, to monitor the running conditions
- Backstage software: Connect PC terminal, to upload status and downloadparameters

*CDS501 is an optimized upgrade based on the CDS500 series, featuring a plug-in terminal design and optimized board layout for easy use, higher EMC rating, and stronger performance.

Rules of naming

Nameplate data: Take Model CDS501-2S100MC as example



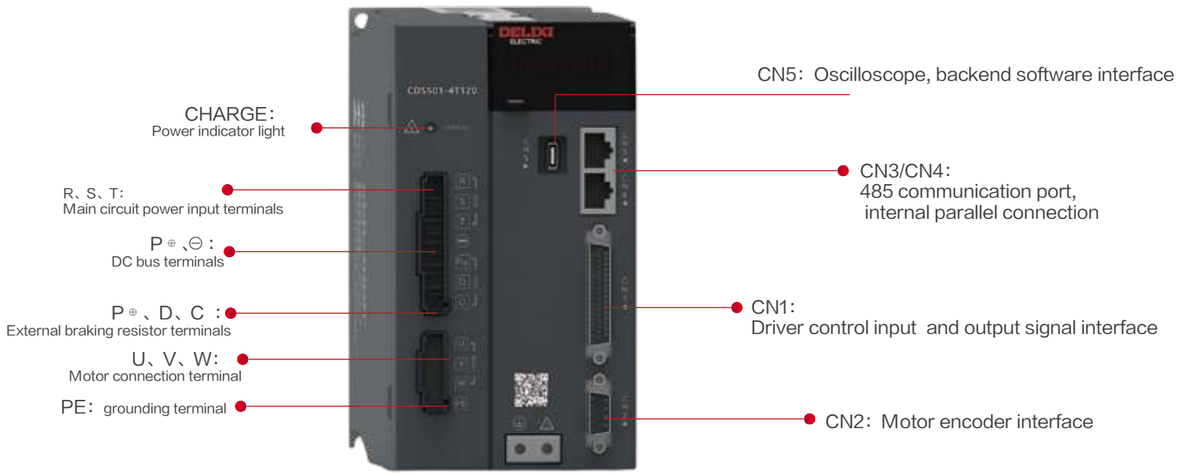
◎ Product Model

Drive Model	Rated Output Current	Max. Output Current	Brake Resistance	Voltage Grade Main circuit
2S (Single-phase 220V±10%, 50/60Hz)				
CDS501-2S100M	10A	30A	Built-in as standard configuration	Single-phase/ 3-phase 220V
CDS501-2S140M	14A	42A		
4T (3-phase 380V±10%, 50/60Hz)				
CDS501-4T085M	8.5A	25.5A	Built-in as standard configuration	3-phase 380V
CDS501-4T120M	12A	36A		

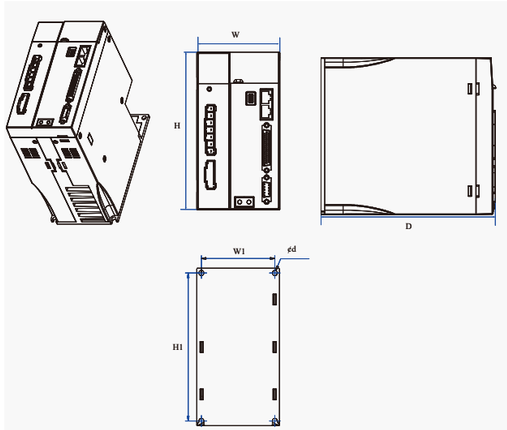
◎ Technical specifications

Item		Specification
Control mode		Position control, speed control, torque control
Encoder feedback		Incremental type encoder, communication type encoder
Regenerative braking		Built-in, external
Configuration	P24V power supply	P24V-COM, the max. output is 200mA
	P5V power supply	P5V-GND, the max. output is 200mA
	Pulse input	P_HI, PULSE+, PULSE-, S_HI, SGN+, SGN-, support differential input and open collector input
	Digital input	8-way digital input terminal (DI1~DI8), both internal power supply and external power supply can be used
	Digital output	4-way digital output terminal (DO1~ DO4), the max. output is 200mA
	Analog input	1-way analog input (AIN), DC±10V, 12-bit conversion precision
	Analog output	1-way analog output (AO1+, AO1-), DC±10V, min. output 1mA
	Frequency dividing output	Differential output (≤500khz), collector output (≤10khz)
Control characteristics	Speed-bandwidth response	Above 1.6KHz
	Speed fluctuation ratio:	<±1.5% (load 0~100%); <±0.3% (power supply -15~+10%) (value corresponds to the rated speed)
	Speed regulation ratio	1:30000
	Input pulse frequency	≤500kHz
Position control	Input mode	① Pulse + symbol ②CW pulse + CCW pulse ③ Orthogonal Phase AB pulse
	Electronic gear ratio	1～65535/1～65535
Feedback mode		Feedback of motor shaft end encoder
Parameter setting method		① Setting and input via local keyboard, ②RS485 MODBUS communication input
Load inertia		Below 20 times of motor inertia
Brake mode		Resistor dynamic braking, dynamic braking **(optional)**

◎Driver terminals



◎Product size(unit: mm)



Drive model	W	W1	H	H1	D	φd
CDS501-2S100	90	80	166	156	187.1	5.5
CDS501-2S140						
CDS501-4T085						
CDS501-4T120						

CDS500



2S series: 3A ~ 14A single-phase / three-phase 220V

2T series: 20A three-phase 220V

4T series: 8.5A~20.0A three-phase 380V

Control mode:

Position control, speed control, torque control, internal speed control; internal position control, etc.

Communication protocol:

485 communication

Product characteristics

Power coverage: Full coverage within the power section of 100W ~ 11kW

Responsiveness: Bandwidth of speed ring 1.6kHz

Encoder: 2500-line incremental optical encoder, 5000-line ncremental optical encoder,
17-bit magnetic encoder, 17-bit optical encoder and 23-bit optical encoder

Usability: Multiple sections and speeds internally, to restrain the vibration

Self-adaption parameter: Inertia identification, zero position identification, rigid rating function

Expansibility:

- Bluetooth module: Wireless control via APP, to monitor the running conditions
- Backstage software: Connect PC terminal, to upload status and downloadparameters

Rules of naming

Nameplate data: Take Model CDS500-2S030MC as example

CDS 500 - 2S 030 M C

Delixi servo drive

Product serial number
CDS500 series: 500

Voltage grade (rated voltage)
2S: Single-phase 220V, 50/60Hz
2T: 3-phase 220V, 50/60Hz
4T: 3-phase 380V, 50/60Hz

Rated output current
2S: 030:3.0A 045:4.5A
060:6.0A 100:10.0A 140:14.0A
2T: 200:20.0A
4T: 085:8.5A 120:12.0A 200:20.0A

Subdivision bit of drive that is matched with different encoders:
H: Matched communication encoder
M: Matched Incremental encoder

Hardware suffix identification
Blank: Default 8 DI,4 DO, AO, no dynamic braking
C: 8 DI,4 DO, AO, dynamic braking

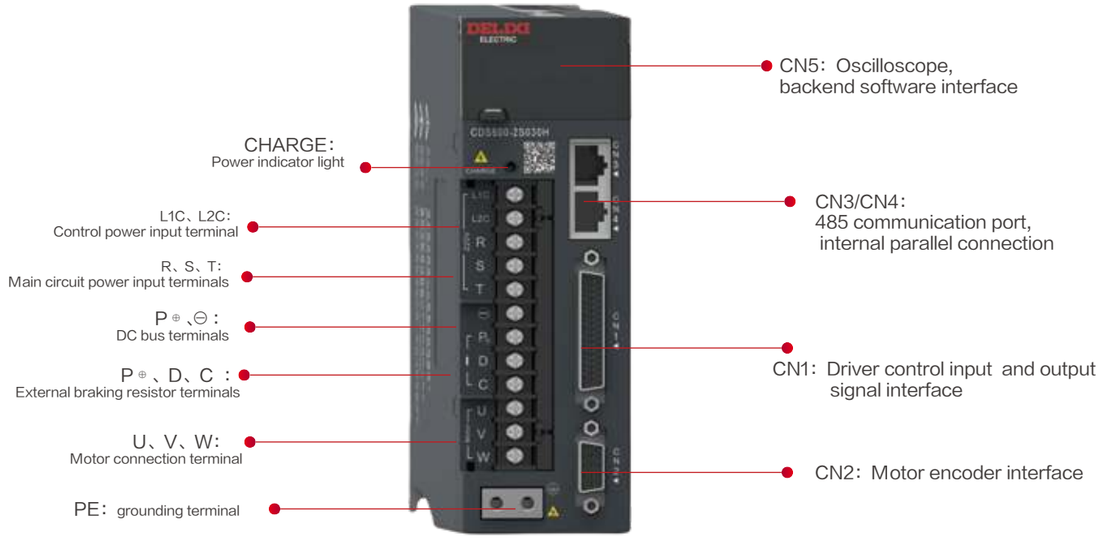
◎ Product Model

Drive Model	Rated Output Current	Max. Output Current	Brake Resistance	Voltage Grade	
				Main circuit	Control circuit
2S (Single-phase 220V±10%, 50/60Hz)					
CDS500-2S030M	3.0A	9A	Built-in as standard configuration	Single-phase/3-phase 220V	Single-phase 220V
CDS500-2S045M	4.5A	13.5A			
CDS500-2S060M	6.0A	18A			
CDS500-2S100M	10A	30A			
CDS500-2S140M	14A	42A			
2T (3-phase 220V±10%, 50/60Hz)					
CDS500-2T200M	20A	60A	Built-in as standard configuration	Single-phase 220V	Single-phase 220V
4T (3-phase 380V±10%, 50/60Hz)					
CDS500-4T085M	8.5A	25.5A	Built-in as standard configuration	3-phase 380V	Single-phase 220V
CDS500-4T120M	12A	36A			
CDS500-4T200M	20A	60A			

◎ Technical specifications

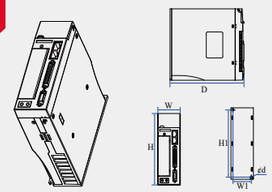
Item		Specification
Control mode		Position control, speed control, torque control
Encoder feedback		Incremental type encoder, communication type encoder
Regenerative braking		Built-in, external
Configuration	P24V power supply	P24V-COM, the max. output is 200mA
	P5V power supply	P5V-GND, the max. output is 200mA
	Pulse input	P_HI, PULSE+, PULSE-, S_HI, SGN+, SGN-, support differential input and open collector input
	Digital input	8-way digital input terminal (DI1~DI8), both internal power supply and external power supply can be used
	Digital output	4-way digital output terminal (DO1~ DO4), the max. output is 200mA
	Analog input	1-way analog input (AIN), DC±10V, 12-bit conversion precision
	Analog output	1-way analog output (AO1+, AO1-), DC±10V, min. output 1mA
	Frequency dividing output	Differential output (≤500khz), collector output (≤10khz)
Control characteristics	Speed-bandwidth response	Above 1.6KHz
	Speed fluctuation ratio:	<±1.5% (load 0~100%); <±0.3% (power supply -15~+10%) (value corresponds to the rated speed)
	Speed regulation ratio	1:30000
	Input pulse frequency	≤500kHz
Position control	Input mode	① Pulse + symbol ②CW pulse + CCW pulse ③ Orthogonal Phase AB pulse
	Electronic gear ratio	1～65535/1～65535
Feedback mode		Feedback of motor shaft end encoder
Parameter setting method		① Setting and input via local keyboard, ②RS485 MODBUS communication input
Load inertia		Below 20 times of motor inertia
Brake mode		Resistor dynamic braking, dynamic braking **(optional)**

◎Driver terminals



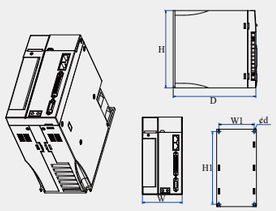
◎Product size(unit：mm)

SIZE-A



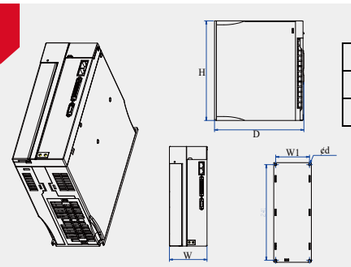
Drive model	W	W1	H	H1	D	φd
CDS500-2S030M	55	45	166	156	179	5
CDS500-2S045M						
CDS500-2S060M						

SIZE-B



Drive model	W	W1	H	H1	D	φd
CDS500-2S100M	90	80	166	156	187.1	5.5
CDS500-2S140M						
CDS500-4T085M						
CDS500-4T120M						

SIZE-C



Drive model	W	W1	H	H1	D	φd
CDS500-2T200M	100	90	251	241	237.7	5.5
CDS500-4T200M						

EtherCAT Bus type servo



CDS560-EC:

2S series:

3A ~ 6A single-phase 220V

10A ~ 14A single-phase / three-phase 220V

4T series:

8.5A~12.0A three-phase 380V



CDS500-EC:

2S series:

3A ~ 14A single-phase / three-phase 220V

2T series:

20A three-phase 220V

4T series:

8.5A~20.0A three-phase 380V

Product characteristics

Control mode: CSP、CSV、CST、PP、PV、PT、HOME

Communication protocol: Support EtherCAT communication with signal transmission rates of 100Mbp Synchronization error of 15 ns and synchronization jitter of ± 20 ns can be achieved by distributed clock

Power coverage: Full coverage within the power section of 100W ~ 1.8kW

Responsiveness: Bandwidth of speed ring 1.6kHz

Encoder: 17-bit magnetic encoder, 17-bit optical encoder and 23-bit optical encoder

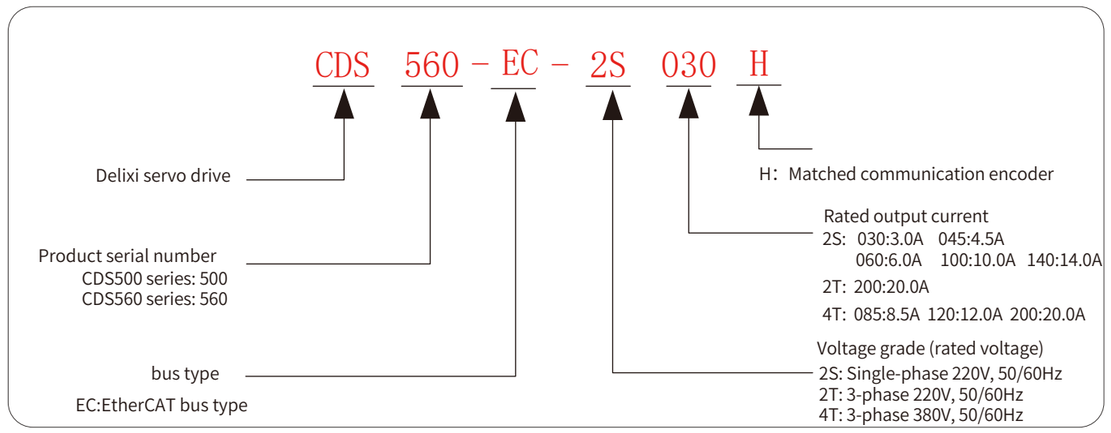
Self-adaption parameter: Inertia identification, zero position identification, rigid rating function

Expansibility:

- Bluetooth module: Wireless control via APP, to monitor the running conditions
- Backstage software: Connect PC terminal, to upload status and downloadparameters

Rules of naming

Nameplate data: Take Model CDS560-EC-2S030H as example



◎ Product Model

CDS560-EC

Drive Model	Rated Output Current	Max. Output Current	Brake Resistance	Voltage Grade	Appearance
				Main circuit	
2S (Single-phase 220V±10%, 50/60Hz)					
CDS560-EC-2S030H	3.0A	9A	Built-in as standard configuration	Single-phase 220V	SIZE-A
CDS560-EC-2S045H	4.5A	13.5A			SIZE-A
CDS560-EC-2S060H	6.0A	18A			SIZE-A
CDS560-EC-2S100H	10A	30A		Single-phase/ 3-phase 220V	SIZE-B
CDS560-EC-2S140H	14A	42A			SIZE-B
4T (3-phase 380V±10%, 50/60Hz)					
CDS560-EC-4T085H	8.5A	25.5A	Built-in as standard configuration	3-phase 380V	SIZE-B
CDS560-EC-4T120H	12A	36A			SIZE-B

CDS500-EC

Drive Model	Rated Output Current	Max. Output Current	Brake Resistance	Voltage Grade		Appearance
				Main circuit	Control circuit	
2S (Single-phase 220V±10%, 50/60Hz)						
CDS500-EC-2S030H	3.0A	9A	Built-in as standard configuration	Single-phase/ 3-phase 220V	Single-phase 220V	SIZE-A
CDS500-EC-2S045H	4.5A	13.5A				SIZE-A
CDS500-EC-2S060H	6.0A	18A				SIZE-A
CDS500-EC-2S100H	10A	30A				SIZE-B
CDS500-EC-2S140H	14A	42A				SIZE-B
2T (3-phase 220V±10%, 50/60Hz)						
CDS500-EC-2T200H	20A	60A	Built-in as standard	3-phase 220V	Single-phase 220V	SIZE-C
4T (3-phase 380V±10%, 50/60Hz)						
CDS500-EC-4T085H	8.5A	25.5A	Built-in as standard configuration	3-phase 380V	Single-phase 380V	SIZE-B
CDS500-EC-4T120H	12A	36A				SIZE-B
CDS500-EC-4T200H	20A	60A				SIZE-C

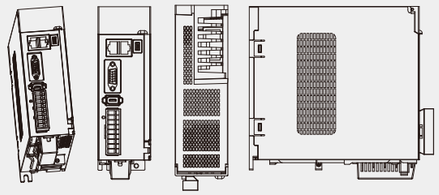
◎ Technical specifications

Item		Specification	
		CDS560-EC	CDS500-EC
Control mode		Position control, speed control, torque control	
Encoder feedback		communication type encoder	
Regenerative braking		Built-in, external	
Configuration	P24V power supply	P24V-COM, the max. output is 200mA	
	P5V power supply	——	P5V-GND, the max. output is 200mA
	Pulse input	——	P_HI, PULSE+, PULSE-, S_HI, SGN+, SGN-, support differential input and open collector input
	Digital input	5 way digital input terminal (DI1~DI5), both internal power supply and external power supply can be used	
	Digital output	3-way digital output terminal (DO1, DO2, DO4), the max. output is 200mA	3-way digital output terminal (DO1~ DO3), the max. output is 200mA
	Frequency dividing output	——	Frequency dividing output of Pulse-Z collector
Control characteristics	Speed-bandwidth response	Above 1.6KHz	
	Speed fluctuation ratio:	<±1.5% (load 0~100%); <±0.3% (power supply -15~+10%) (value corresponds to the rated speed)	
	Speed regulation ratio	1:30000	
	Input pulse frequency	⩽500kHz	
Position control	Input mode	EtherCAT communication input	
	Electronic gear ratio	1～65535/1～65535	
Feedback mode		Feedback of motor shaft end encoder	
Parameter setting method		① Be set and inputted via keyboard ② EtherCAT communication input	
Load inertia		Below 20 times of motor inertia	
Brake Mode		Resistor dynamic braking	

◎Product size(unit: mm)

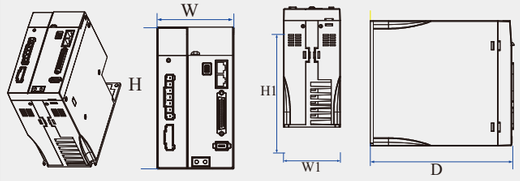
CDS560-EC:

SIZE-A



Drive model	W	W1	H	H1	D	ϕd
CDS560-EC-2S030H	55	41.7	170	159.5	177.3	5
CDS560-EC-2S045H						
CDS560-EC-2S060H						

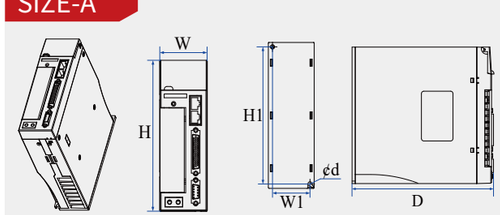
SIZE-B



Drive model	W	W1	H	H1	D
CDS560-EC-2S100H	90	80	166	156	189.6
CDS560-EC-2S140H					
CDS560-EC-4T085H					
CDS560-EC-4T120H					

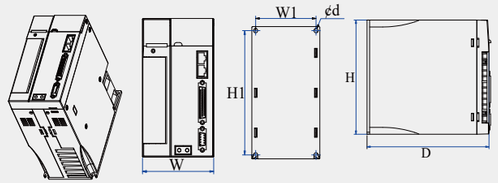
CDS500-EC:

SIZE-A



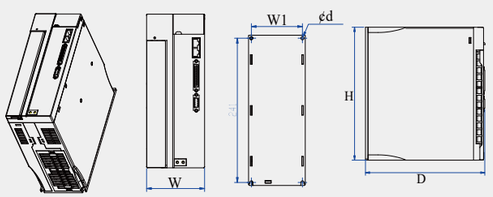
Drive model	W	W1	H	H1	D	ϕd
CDS500-EC-2S016H	55	45	166	156	179	5
CDS500-EC-2S030H						
CDS500-EC-2S045H						
CDS500-EC-2S060H						

SIZE-B



Drive model	W	W1	H	H1	D	ϕd
CDS500-EC-2S100H	90	80	166	156	187.1	5.5
CDS500-EC-2S140H						
CDS500-EC-4T085H						
CDS500-EC-4T120H						

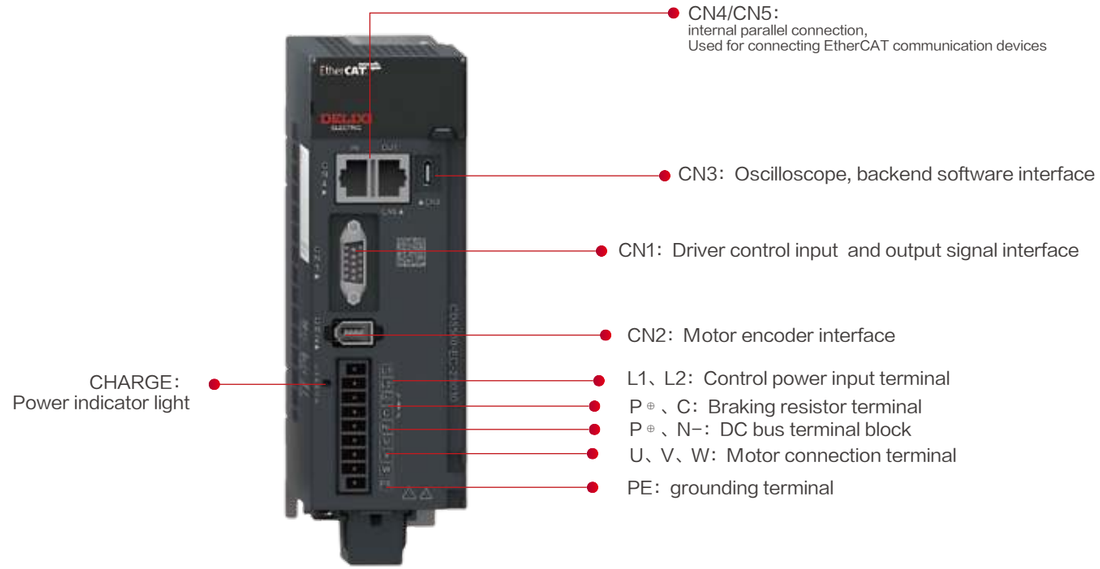
SIZE-C



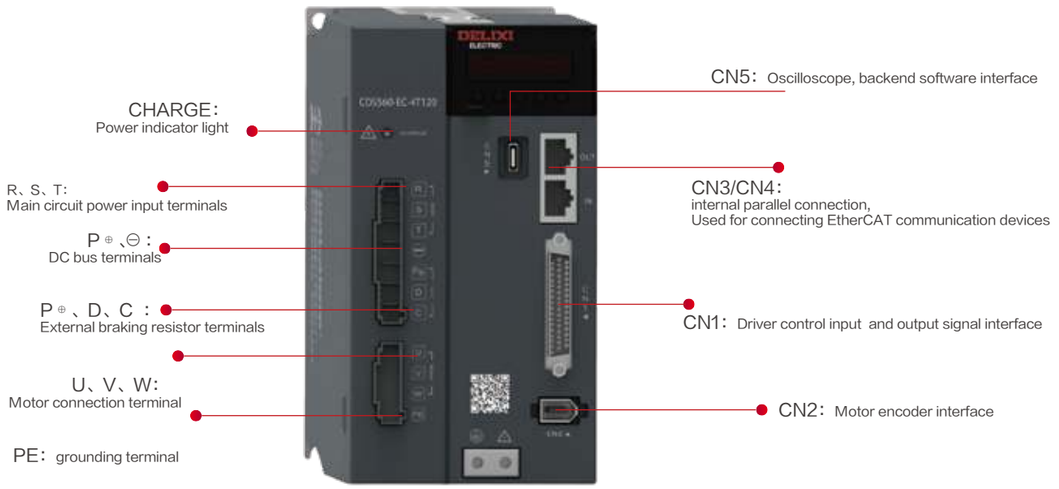
Drive model	W	W1	H	H1	D	ϕd
CDS500-EC-2T200H	100	90	251	241	237.7	5.5
CDS500-EC-4T200H						

◎Driver terminals

CDS560-EC SIZE-A

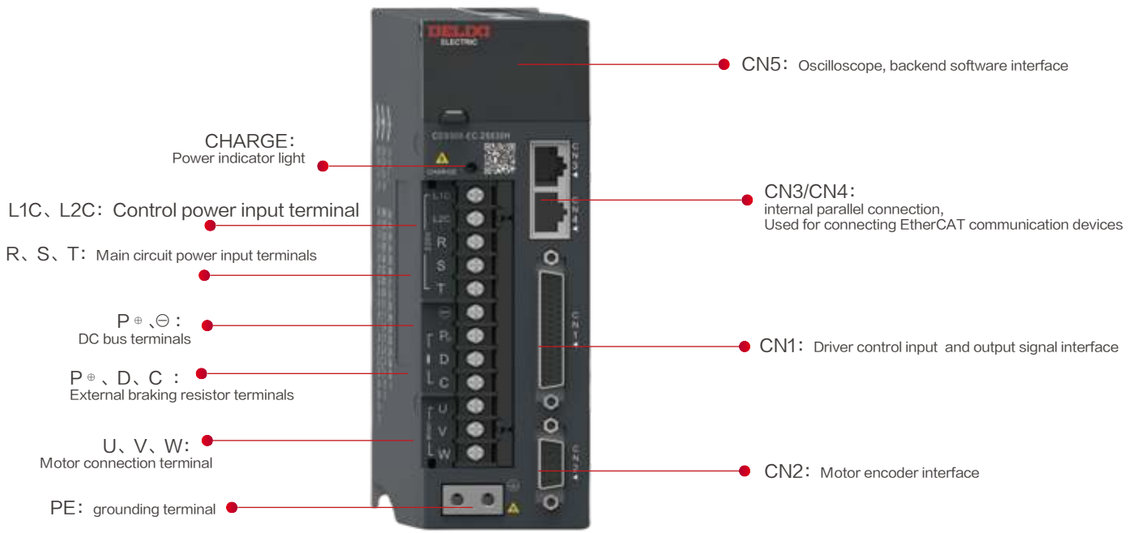


CDS560-EC SIZE-B



◎Driver terminals

CDS500-EC



M3 Bus type servo

MECHATROLINK-III



CDS560-M3:

2S series:

3A ~ 6A single-phase 220V



CDS500-M3:

2S series:

3A ~ 14A single-phase / three-phase 220V

2T series:

20A three-phase 220V

4T series:

8.5A~20.0A three-phase 380V

Product characteristics

Power coverage: Full coverage within the power section of 100W ~ 11kW

Responsiveness: Bandwidth of speed ring 1.6kHz

Encoder: 17-bit magnetic encoder, 17-bit optical encoder and 23-bit optical encoder

Usability: Multiple sections and speeds internally, to restrain the vibration

Self-adaption parameter: Inertia identification, zero position identification, rigid rating function

Expansibility:

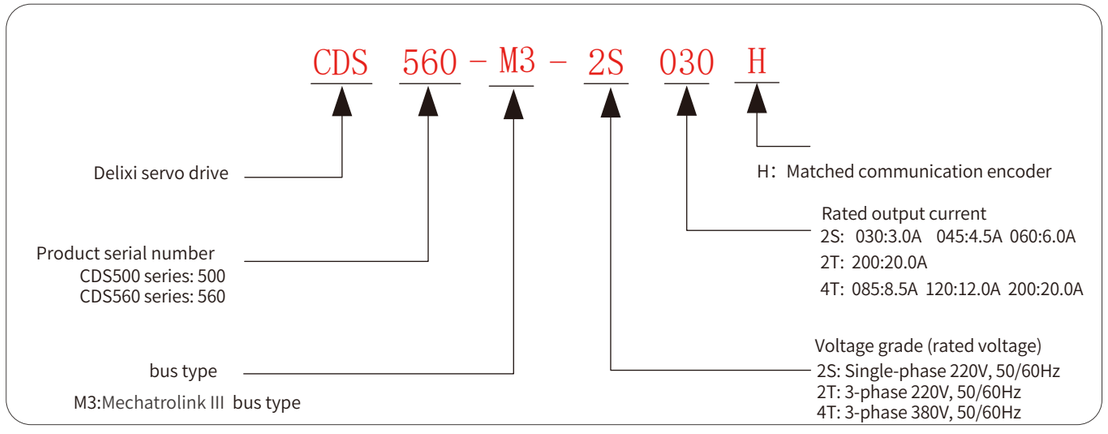
- Bluetooth module: Wireless control via APP, to monitor the running conditions

Model Features:

Supports Mechatrolink III communication, with a transmission speed of 100Mbps, capable of connecting up to 62 stations, and a maximum transmission distance of 100m.

Rules of naming

Nameplate data: Take Model CDS560-M3-2S030H as example



◎ Product Model

CDS560-M3

Drive Model	Rated Output Current	Max. Output Current	Brake Resistance	Voltage Grade
				Main circuit
2S (Single-phase 220V±10%, 50/60Hz)				
CDS560-M3-2S030H	3.0A	9A	Built-in as standard configuration	Single-phase 220V
CDS560-M3-2S045H	4.5A	13.5A		
CDS560-M3-2S060H	6.0A	18A		

CDS500-M3

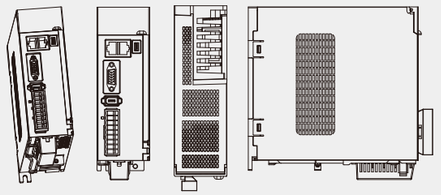
Drive Model	Rated Output Current	Max. Output Current	Brake Resistance	Voltage Grade		Appearance
				Main circuit	Control circuit	
2S (Single-phase 220V±10%, 50/60Hz)						
CDS500-M3-2S030H	3.0A	9A	Built-in as standard configuration	Single-phase/ 3-phase 220V	Single-phase 220V	SIZE-A
CDS500-M3-2S045H	4.5A	13.5A				SIZE-A
CDS500-M3-2S060H	6.0A	18A				SIZE-A
CDS500-M3-2S100H	10A	30A				SIZE-B
CDS500-M3-2S140H	14A	42A				SIZE-B
2T (3-phase 220V±10%, 50/60Hz)						
CDS500-M3-2T200H	20A	60A	Built-in as standard configuration	3-phase 220V	Single-phase 220V	SIZE-C
4T (3-phase 380V±10%, 50/60Hz)						
CDS500-M3-4T085H	8.5A	25.5A	Built-in as standard configuration	3-phase 380V	Single-phase 380V	SIZE-B
CDS500-M3-4T120H	12A	36A				SIZE-B
CDS500-M3-4T200H	20A	60A				SIZE-C

◎ Technical specifications

Item		Specification	
		CDS560-M3	CDS500-M3
Control mode		Position contro	
Encoder feedback		communication type encoder	
Regenerative braking		Built-in, external	
Configuration	P24V power supply	P24V-COM, the max. output is 200mA	
	P5V power supply	——	P5V-GND, the max. output is 200mA
	Pulse input	——	P_HI, PULSE+, PULSE-, S_HI, SGN+, SGN-, support differential input and open collector input
	Digital input	3 way digital input terminal (DI1~DI3), both internal power supply and external power supply can be used	5 way digital input terminal (DI1~DI5), both internal power supply and external power supply can be used
	Digital output	3-way digital output terminal (DO1, DO2, DO4), the max. output is 200mA	3-way digital output terminal (DO1~ DO3), the max. output is 200mA
	Frequency dividing output	Differential output (≤500khz), collector output (≤10khz)	Frequency dividing output of Pulse-Z collector
Control characteristics	Speed-bandwidth response	Above 1.6KHz	
	Speed fluctuation ratio:	<±1.5% (load 0~100%); <±0.3% (power supply -15~+10%) (value corresponds to the rated speed)	
	Speed regulation ratio	1:30000	
	Input pulse frequency	——	≤500kHz
Position control	Input mode	Mechatrolink III communication input	
	Electronic gear ratio	1～65535/1～65535	
Feedback mode		Feedback of motor shaft end encoder	
Parameter setting method		① Be set and inputted via keyboard ②Mechatrolink III communication input	
Load inertia		Below 20 times of motor inertia	
Brake Mode		Resistor dynamic braking	

◎Product size(unit: mm)

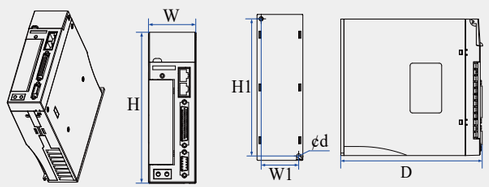
CDS560-M3



Drive model	W	W1	H	H1	D	ϕd
CDS560-M3-2S030H	55	41.7	170	159.5	177.3	5
CDS560-M3-2S045H						
CDS560-M3-2S060H						

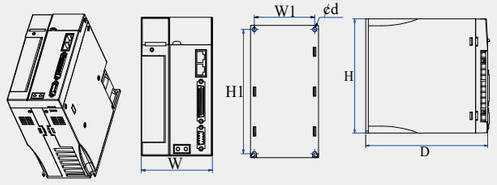
CDS500-M3

SIZE-A



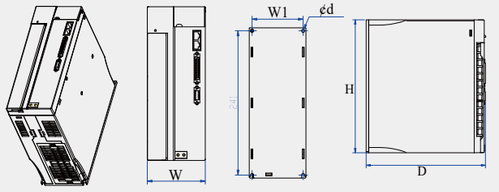
Drive model	W	W1	H	H1	D	ϕd
CDS500-M3-2S016H	55	45	166	156	179	5
CDS500-M3-2S030H						
CDS500-M3-2S045H						
CDS500-M3-2S060H						

SIZE-B



Drive model	W	W1	H	H1	D	ϕd
CDS500-M3-2S100H	90	80	166	156	187.1	5.5
CDS500-M3-2S140H						
CDS500-M3-4T085H						
CDS500-M3-4T120H						

SIZE-C



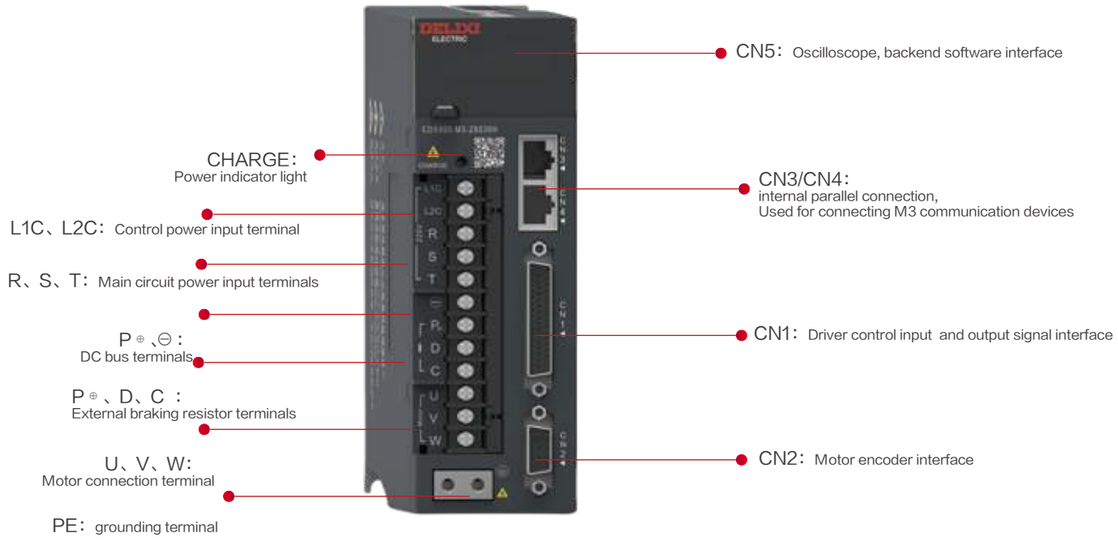
Drive model	W	W1	H	H1	D	ϕd
CDS500-M3-2T200H	100	90	251	241	237.7	5.5
CDS500-M3-4T200H						

◎Driver terminals

CDS560-M3



CDS500-M3



Servo Motor

Delixi electric servo motors include DMA series 4-pole motor, and DMB series 5-pole motor.
According to the parameters such as torque, speed, inertia, installation size, encoder type, etc., those products are further divided into more than 500 models and specifications, which support 2500-line optical encoder, 5000-line optical encoder, 17-bit magnetoelectric encoder and 17/23-bit optical encoder, with characteristics of high speed, large torque, high precision, fast response, high reliability, etc.. It can be used for automation control in such industries as textile, printing, packaging, machine tools, etc.



Naming rules

DMB−80−S−H−024−30−B−0−G−V−1

Product series
DMA: Four-pole A series motor
DMB: Five-pole B series motor
DMC: Five-pole C series motor

Motor base
40: 40 flange
60: 60 flange
80: 80 flange
110: 110 flange
130: 130 flange
150: 150 flange
180: 180 flange

Voltage grade
S: 220V
T: 380V

Encoder type
M: 2500-line incremental photoelectric encoder
C: 17-bit single-turn magnetoelectric encoder
R: 17-bit multi-turn magnetoelectric encoder
H: 23-bit optical encoder

Special customization
Blank: No customization
1:Fan
2:Fitting joint
3:Waterproofing
4:Other customizations

Current grade
R: Conventional current
V: Small current

Inertia grade
S: Small inertia
G: Medium inertia
H: High inertia

Brake
0: Without brake
1: With brake

Motor shaft specification
A: With key, no oil seal, with thread hole
B: With key, with oil seal, with thread hole
C: Optical axis, without oil seal, with thread hole
D: Optical axis, with oil seal, with thread hole
E: Special axis specification (length, axis diameter, etc.)

Rated speed (×100rpm)
30: 3000rpm

Rated torque (×0.1N·m)
024: 2.4 N·m

◎Motor servo combination recommendation (5-pole)

Motor S/N	Models	Rated Power (KW)	Rated Current (A)	Max. Current (A)	Max. Rotational Speed (RPM)	Inertia (10-4kg.m^2)	Inertia Class
Driver: Single-phase/three-phase 220V input							
H.31D1	DMB-40S-H00330B0GR	0.1	1.0	3	6000	0.05	Medium inertia
H.3280	DMB-60S-H00630B0GR	0.2	1.7	5.1	6000	0.28	Medium inertia
H.3281	DMB-60S-H01330B0GR	0.4	2.5	7.5	6000	0.52	Medium inertia
H.3282	DMB-60S-H01930B0GR	0.6	4.1	12.3	6000	0.78	Medium inertia
H.3381	DMB-80S-H02430B0GR	0.75	4.4	13.2	6000	1.48	Medium inertia
H.3387	DMB-80S-H02430B0GV	0.75	3.8	11.4	4500	1.48	Medium inertia
H.3383	DMB-80S-H03825B0GR	1	4.6	13.8	4000	2.27	Medium inertia
H.3382	DMB-80S-H03330B0GR	1	5.8	17.4	6000	2.27	Medium inertia
H.3682	DMB-110S-H04030B0GV	1.2	5.7	17.1	4500	5.5	Medium inertia
H.3685	DMB-110S-H06030B0GV	1.8	6.1	18.3	3500	8.1	Medium inertia
H.378A	DMB-130S-H05415B0SR	0.85	5.0	15	3000	7.2	Small inertia
H.378B	DMB-130S-H08315B0SR	1.3	9.2	27.6	3000	10.3	Small inertia
H.378C	DMB-130S-H11525B0SR	3	9.5	24	3000	12.7	Small inertia
H.378D	DMB-130S-H14615B0SR	2.3	16.0	40	3000	19.7	Small inertia
H.3785	DMB-130S-H05415B0GR	0.85	5.4	15.9	3000	12.5	Medium inertia
H.3786	DMB-130S-H08315B0GR	1.3	7.5	22.5	3000	17.8	Medium inertia
H.3787	DMB-130S-H11515B0GR	1.8	10.5	31.5	3000	24.1	Medium inertia
H.3788	DMB-130S-H14615B0GR	2.3	14.0	42	3000	31.5	Medium inertia
H.3789	DMB-130S-H17815B0GR	2.8	15.5	38.7	2500	45.4	Medium inertia
H.3932	DMC-180S-R18615B0GR	3	11	37.4	2000	47.2	Medium inertia
Driver: 3-phase 380V input							
H.379A	DMB-130T-H05415B0SR	0.85	3.0	9	3000	7.2	Small inertia
H.379B	DMB-130T-H08315B0SR	1.3	5.0	15	3000	10.3	Small inertia
H.379C	DMB-130T-H11525B0SR	3	7.0	21	3000	12.7	Small inertia
H.379D	DMB-130T-H14615B0SR	2.3	9.0	22.5	3000	19.7	Small inertia
H.3795	DMB-130T-H05415B0GR	0.85	3.4	10.2	3000	12.5	Medium inertia
H.3796	DMB-130T-H08315B0GR	1.3	4.7	14.1	3000	17.8	Medium inertia
H.3797	DMB-130T-H11515B0GR	1.8	6.2	18.8	3000	24.1	Medium inertia
H.3798	DMB-130T-H14615B0GR	2.3	8.4	25.2	3000	31.5	Medium inertia
H.3799	DMB-130T-H17815B0GV	2.8	12.0	30	3000	45.4	Medium inertia
H.3984	DMB-180T-H18615B0GV	2.9	10.0	30	2500	59	Medium inertia
H.3995	DMB-180T-H28415B0GV	4.4	10.0	30	2000	66	Medium inertia
H.3997	DMB-180T-H35015B0GV	5.5	13.0	32.5	2000	102	Medium inertia
H.3968	DMB-180T-H48015B0GV	7.5	18	45	2000	130	Medium inertia
H.3932	DMC-180T-R18615B0GV	3	11.6	38.2	2000	47.2	Medium inertia
H.3935	DMC-180T-R28415B0GV	4.5	11.4	35.2	2000	69.3	Medium inertia
H.3937	DMC-180T-R35015B0GV	5.5	12	37.1	2000	94.1	Medium inertia
H.3938	DMC-180T-R48015B0GV	7.5	16.8	51.8	2000	135.6	Medium inertia

◎Motor servo combination recommendation (4-pole)

Motor S/N	Models	Rated Power (KW)	Rated Current (A)	Max Current (A)	rated torque (N.m)	Max torque (N.m)	rated speed (RPM)	Max speed (RPM)	Inertia (10-4kg.m^2)	Inertia Class
Driver: Single-phase/three-phase 220V input										
H.3101	DMA-40S-H00330B0GR	0.10	1.1	3.3	0.3	1.0	3000	6000	0.046	Medium inertia
H.3200	DMA-60S-H00630B0GR	0.20	1.3	3.9	0.6	1.9	3000	5000	0.26	Medium inertia
H.3201	DMA-60S-H01330B0GR	0.40	2.6	7.8	1.3	3.8	3000	5000	0.41	Medium inertia
H.3202	DMA-60S-H01930B0GR	0.60	3.1	8.8	1.9	5.4	3000	5000	0.53	Medium inertia
H.3300	DMA-80S-H01330B0GR	0.40	2.0	6.0	1.3	3.8	3000	5000	1.05	Medium inertia
H.3302	DMA-80S-H03520B0GR	0.73	3.0	9.0	3.5	10.5	2000	2600	2.63	Medium inertia
H.3301	DMA-80S-H02430B0GR	0.75	3.0	8.9	2.4	7.1	3000	5000	1.82	Medium inertia
H.3304	DMA-80S-H04025B0GR	1.00	4.4	13.2	4.0	12.0	2500	3200	2.97	Medium inertia
H.3303	DMA-80S-H03530B0GR	1.10	4.5	13.5	3.5	10.5	3000	5000	2.63	Medium inertia
H.3305	DMA-80S-H04030B0GR	1.20	4.5	13.5	4.0	12.0	3000	2600	2.97	Medium inertia
H.3401	DMA-90S-H03520B0GR	0.73	3.0	9.0	3.5	10.5	2000	3000	3.4	Medium inertia
H.3400	DMA-90S-H02430B0GR	0.75	3.0	8.9	2.4	7.1	3000	3600	2.45	Medium inertia
H.3402	DMA-90S-H04025B0GR	1.00	4.0	12.0	4.0	12.0	2500	3500	3.7	Medium inertia
H.3600	DMA-110S-H02030B0GR	0.60	2.5	7.5	2.0	6.0	3000	5000	3.1	Medium inertia
H.3601	DMA-110S-H04020B0GR	0.80	3.5	10.5	4.0	12.0	2000	2600	5.4	Medium inertia
H.3606	DMA-110S-H10010B0GR	1.00	5.0	15.0	10.0	30.0	1000	1500	9.6	Medium inertia
H.3604	DMA-110S-H06020B0GR	1.20	4.5	9.0	6.0	12.0	2000	2500	7.6	Medium inertia
H.3602	DMA-110S-H04030B0GR	1.20	5.0	15.0	4.0	12.0	3000	5000	5.4	Medium inertia
H.3603	DMA-110S-H05030B0GR	1.50	6.0	18.0	5.0	15.0	3000	3500	6.3	Medium inertia
H.3605	DMA-110S-H06030B0GR	1.80	6.0	18.0	6.0	18.0	3000	3500	7.6	Medium inertia
H.37A0	DMA-130S-H06015B0GR	0.90	4.0	12.0	6.0	18.0	1500	2000	12.6	Medium inertia
H.3700	DMA-130S-H04025B0GR	1.00	4.0	12.0	4.0	12.0	2500	3500	8.5	Medium inertia
H.3705	DMA-130S-H10010B0GR	1.00	4.5	9.0	10.0	20.0	1000	1300	19.4	Medium inertia
H.3703	DMA-130S-H07715B0GR	1.10	4.7	13.4	7.7	22.0	1500	2000	13.8	Medium inertia
H.370F	DMA-130S-H04030B0GR	1.20	4.5	13.5	4.0	12.0	3000	3600	8.5	Medium inertia
H.3701	DMA-130S-H05025B0GR	1.30	5.0	15.0	5.0	15.0	2500	3500	10.6	Medium inertia
H.3706	DMA-130S-H10015B0GR	1.50	6.0	15.0	10.0	25.0	1500	2000	19.4	Medium inertia
H.3702	DMA-130S-H06025B0GR	1.50	6	18.0	6.0	18.0	2500	3000	12.6	Medium inertia

◎Motor servo combination recommendation (4-pole)

Motor S/N	Models	Rated Power (KW)	Rated Current (A)	Max Current (A)	rated torque (N.m)	Max torque (N.m)	rated speed (RPM)	Max speed (RPM)	Inertia (10-4kg.m^2)	Inertia Class
Driver: Single-phase/three-phase 220V input										
H.370A	DMA-130S-H07720B0GR	1.60	6.5	18.6	7.7	22	2000	2500	15.3	Medium inertia
H.370B	DMA-130S-H06030B0GR	1.88	7	21.0	6	18	3000	3500	12.6	Medium inertia
H.3704	DMA-130S-H07725B0GR	2.00	7.5	21.4	7.7	22	2500	3000	15.3	Medium inertia
H.370D	DMA-130S-H10020B0GR	2.00	8	24.0	10	30	2000	2500	19.4	Medium inertia
H.3708	DMA-130S-H15015B0GR	2.30	9.5	19.0	15	30	1500	2000	27.7	Medium inertia
H.370C	DMA-130S-H07730B0GR	2.31	9.5	27.1	7.7	22	3000	3600	15.3	Medium inertia
H.3707	DMA-130S-H10025B0GR	2.60	10	25.0	10	25	2500	3000	19.4	Medium inertia
H.37A2	DMA-130S-H15020B0GR	3.00	12	24.0	15	30	2000	2500	27.7	Medium inertia
H.3CA1	DMA-130S-H10030B0SR	3.00	12	36.0	10	30	3000	3500	6.3	Small inertia
H.37A1	DMA-130S-H10030B0GR	3.00	12	36.0	10	30	3000	3500	19.4	Medium inertia
H.3709	DMA-130S-H15025B0GR	3.80	13.5	27.0	15	30	2500	3000	27.7	Medium inertia
H.37A8	DMA-130S-H25015B0SR	3.90	15	30.0	25	50	1500	1800	13	Small inertia
H.3802	DMA-150S-H18020B0GR	3.60	17	34.0	18	36	2000	2500	46	Medium inertia
H.3901	DMA-180S-H17015B0GR	2.50	10	24.7	17	42	1500	2000	65	Medium inertia
H.3902	DMA-180S-H19015B0GR	3.00	12	29.7	19	47	1500	2000	70	Medium inertia
H.3906	DMA-180S-H35010B0GR	3.70	16	32.0	35	70	1000	1500	122.5	Medium inertia
H.3905	DMA-180S-H27015B0GR	4.30	16	39.7	27	67	1500	2000	96.4	Medium inertia
H.3903	DMA-180S-H21520B0GR	4.50	14	34.5	21.5	53	2000	2500	79.6	Medium inertia
H.3907	DMA-180S-H19025B0GR	5.00	16	39.6	19	47	2500	3000	70	Medium inertia
H.3904	DMA-180S-H27020B0GR	5.60	19	38.0	27	54	2000	2500	96.4	Medium inertia
Driver: 3-phase 380V input										
H.3310	DMA-80T-H04025B0GR	1.0	3	9.0	4.0	12.0	2500	3000	2.97	Medium inertia
H.3610	DMA-110T-H06030B0GR	1.8	4	12.0	6.0	18.0	3000	3500	7.6	Medium inertia
H.3710	DMA-130T-H10010B0GR	1.0	2.5	5.0	10.0	20.0	1000	1500	19.4	Medium inertia
H.3716	DMA-130T-H04025B0GR	1.0	2.6	7.8	4.0	12.0	2500	3000	8.5	Medium inertia
H.3717	DMA-130T-H05025B0GR	1.3	3	9.0	5.0	15.0	2500	3000	10.6	Medium inertia
H.3711	DMA-130T-H10015B0GR	1.5	3.5	8.8	10.0	25.0	1500	2000	19.4	Medium inertia

◎Motor servo combination recommendation (4-pole)

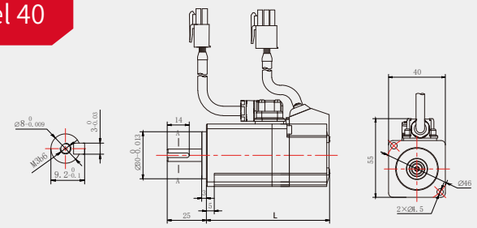
Motor S/N	Models	Rated Power (KW)	Rated Current (A)	Max Current (A)	rated torque (N.m)	Max torque (N.m)	rated speed (RPM)	Max speed (RPM)	Inertia (10-4kg.m^2)	Inertia Class
Driver: 3-phase 380V input										
H.3718	DMA-130T-H06025B0GR	1.50	4	12.0	6.0	18.0	2500	3000	12.6	Medium inertia
H.3719	DMA-130T-H07720B0GR	1.60	4	11.4	7.7	22.0	2000	2500	15.3	Medium inertia
H.371A	DMA-130T-H10020B0GR	2.00	4.5	11.3	10.0	25.0	2000	2500	19.4	Medium inertia
H.3715	DMA-130T-H07725B0GR	2.00	4.8	13.7	7.7	22.0	2500	3000	15.3	Medium inertia
H.3713	DMA-130T-H15015B0GR	2.30	5	10.0	15.0	30.0	1500	2000	27.7	Medium inertia
H.371D	DMA-130T-H07730B0GR	2.31	5.5	16.4	7.7	23.0	3000	3600	15.3	Medium inertia
H.3712	DMA-130T-H10025B0GR	2.60	6	15.0	10.0	25.0	2500	3000	19.4	Medium inertia
H.371B	DMA-130T-H10030B0GR	3.00	6.5	16.3	10.0	25.0	3000	3600	19.4	Medium inertia
H.3714	DMA-130T-H15025B0GR	3.80	8.8	17.6	15.0	30.0	2500	3000	27.7	Medium inertia
H.371F	DMA-130T-H20020B0GR	4.20	8.5	17.0	20.0	40.0	2000	2200	35.4	Medium inertia
H.371C	DMA-130T-H15030B0GR	4.70	9.5	19.0	15.0	30.0	3000	3600	27.7	Medium inertia
H.371E	DMA-130T-H25020B0SR	5.20	9.5	19.0	25.0	50.0	2000	2200	13	Small inertia
H.3910	DMA-180T-H17015B0GR	2.50	6.5	16.1	17.0	42.0	1500	2000	65	Medium inertia
H.3912	DMA-180T-H19015B0GR	3.00	7.5	18.6	19.0	47.0	1500	2000	70	Medium inertia
H.3916	DMA-180T-H35010B0GR	3.70	10	20.0	35.0	70.0	1000	1500	122.5	Medium inertia
H.3915	DMA-180T-H27015B0GR	4.30	10	24.8	27.0	67.0	1500	2000	96.4	Medium inertia
H.3913	DMA-180T-H21520B0GR	4.50	9.5	23.4	21.5	53.0	2000	2500	79.6	Medium inertia
H.3917	DMA-180T-H35015B0GR	5.50	12	24.0	35.0	70.0	1500	2000	122.5	Medium inertia
H.391A	DMA-180T-H21525B0GR	5.60	12	29.6	21.5	53.0	2500	3000	79.6	Medium inertia
H.3914	DMA-180T-H27020B0GR	5.60	13	32.3	27.0	67.0	2000	2500	96.4	Medium inertia
H.3919	DMA-180T-H35020B0GR	7.30	16	32.0	35.0	70.0	2000	2500	122.5	Medium inertia
H.3918	DMA-180T-H48015B0GR	7.50	20	40.0	48.0	96.0	1500	2000	167.2	Medium inertia
H.3A13	DMA-200T-H70015B0GR	11.00	21	42.0	70.0	140.0	1500	2000	97.7	Medium inertia

- The above 4-pole / 5-pole pair motors support M, D, C, R, A and H encoders, all of which are equipped with H (23-bit communication encoder).
  The motor S/N is named as follows:
  M (2500-line incremental photoelectric encoder): H.0XXX
  D (5000-line incremental photoelectric encoder): H.1XXX
  C, R and A (17-bit communication encoder): H.2XXX
  H (23-bit communication encoder): H.3XXX

◎Size of 5-pole motor

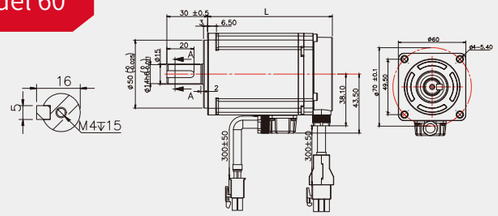
(unit:mm)

Model 40



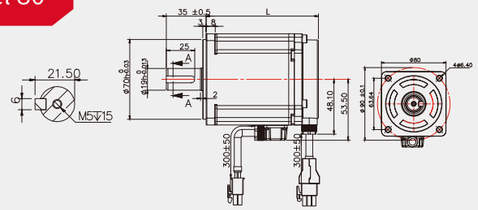
Motor Models	L-without Band-type Brake	L-with Band-type Brake	Remarks
DMB-40S-C00330B0GR	79.5	112.5	Encoder type C/R/M/A/H/D Same size
DMB-40S-H00330B0GR			

Model 60



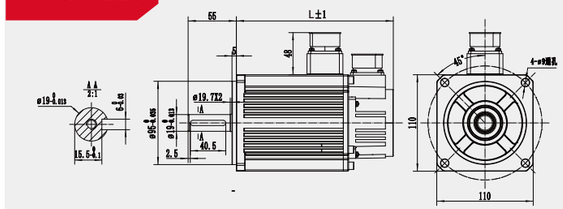
Motor Models	L-without Band-type Brake	L-with Band-type Brake	Remarks
DMB-60S-C00630B0GR	75	105	Encoder type C/R/ Same size
DMB-60S-C01330B0GR	92	122	
DMB-60S-C01930B0GR	109	139	
DMB-60S-H00630B0GR	95	125	Encoder type M/A/H/D Same size
DMB-60S-H01330B0GR	112	142	
DMB-60S-H01930B0GR	129	159	

Model 80



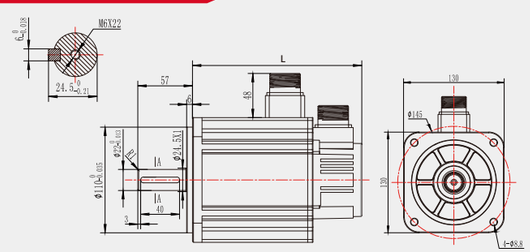
Motor Models	L-without Band-type Brake	L-with Band-type Brake	Remarks
DMB-80S-C02430B0GR	100	134	Encoder type C/R/ Same size
DMB-80S-C02430B0GV	100	134	
DMB-80S-C03330B0GR	113	147	
DMB-80S-C03825B0GR	113	147	
DMB-80S-H02430B0GR	119	153	Encoder type M/A/H/D Same size
DMB-80S-H02430B0GV	119	153	
DMB-80S-H03330B0GR	132	166	
DMB-80S-H03825B0GR	132	166	

Model 110



Motor Models	L-without Band-type Brake	L-with Band-type Brake	Remarks
DMB-110S-H04030B0GR	157	177	Encoder type C/R/M/A/H/D Same size
DMB-110S-H06030B0GR	180	200	

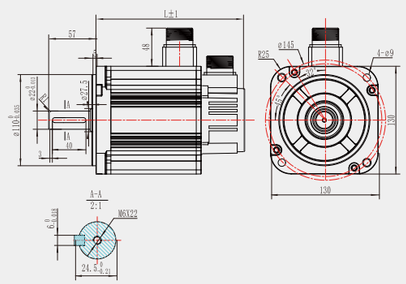
Model 130 (Small inertia)



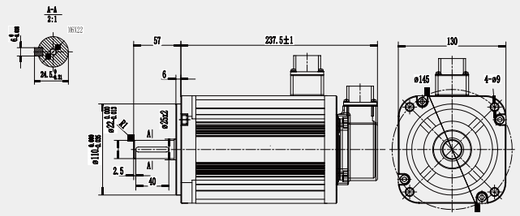
Motor Models	L-without Band-type Brake	L-with Band-type Brake	Remarks
DMB-130S-H05415B0SR	152.5	186	Encoder type C/R/M/A/H/D Same size
DMB-130S-H08315B0SR	177.5	211	
DMB-130S-H11525B0SR	177.5	211	
DMB-130S-H14615B0SR	228	255.5	
DMB-130T-H05415B0SR	152.5	186	
DMB-130T-H08315B0SR	177.5	211	
DMB-130T-H11525B0SR	177.5	211	
DMB-130T-H14615B0SR	228	255.5	

◎Size of 5-pole motor

Model 130 (Medium inertia)

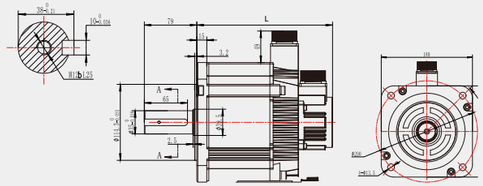


Motor Models	L-without Band-type Brake	L-with Band-type Brake	Remarks
DMB-130S-H05415B0GR	145	170	Encoder type C/R/M/A/H/D Same size
DMB-130S-H08315B0GR	161	186	
DMB-130S-H11515B0GR	179	204	
DMB-130S-H14615B0GR	201	226	
DMB-130T-H05415B0GR	145	170	
DMB-130T-H08315B0GR	161	186	
DMB-130T-H11515B0GR	179	204	
DMB-130T-H14615B0GR	201	226	

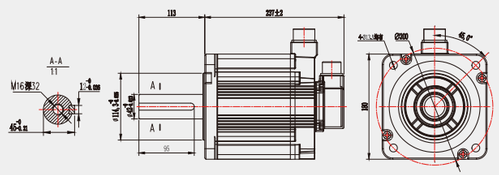


Motor Models	L-without Band-type Brake	L-with Band-type Brake	Remarks
DMB-130S-H17815B0GR	237.5	265.5	Encoder type C/R/M/A/H/D Same size
DMB-130T-H17815B0GV			

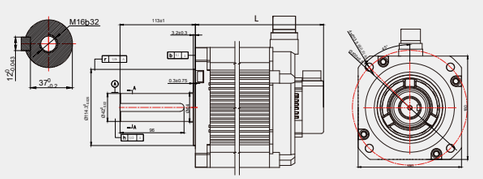
Model 180



Motor Models	L-without Band-type Brake	L-with Band-type Brake	Remarks
DMB-180T-H18615B0GV	176	224	Encoder type M/A/H/D Same size
DMB-180T-H28415B0GV	200	248	



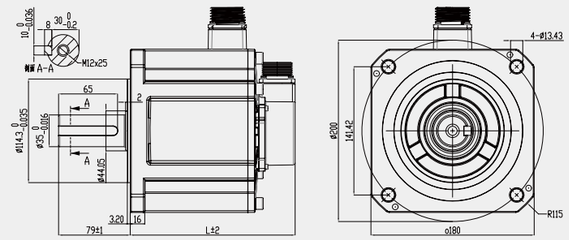
Motor Models	L-without Band-type Brake	L-with Band-type Brake	Remarks
DMB-180T-H35015B0GV	237	285	Encoder type M/A/H/D Same size



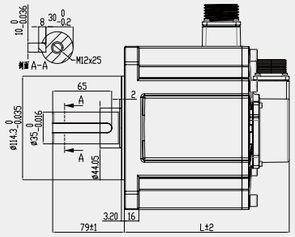
Motor Models	L-without Band-type Brake	L-with Band-type Brake	Remarks
DMB-180T-H48015B0GV	310	360	Encoder type M/A/H/D Same size

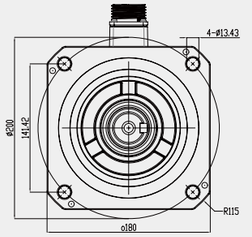
◎Size of 5-pole motor

DMC Series Model 180

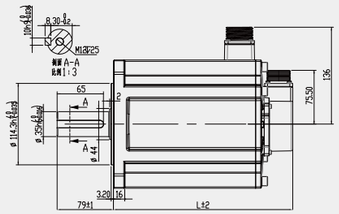


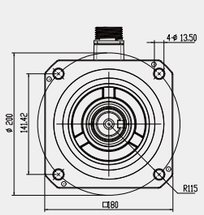
Motor Models	L-without Band-type Brake	L-with Band-type Brake
DMC-180S-R18615B0GR	181.8	214.8
DMC-180T-R18615B0GV		



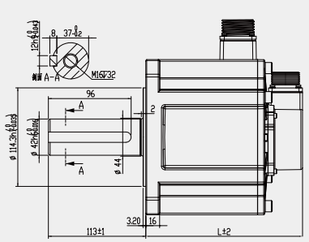


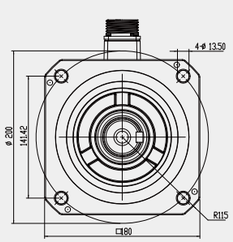
Motor Models	L-without Band-type Brake	L-with Band-type Brake
DMC-180T-R28415B0GV	181.8	214.8





Motor Models	L-without Band-type Brake	L-with Band-type Brake
DMC-180T-R35015B0GV	251.8	284.8



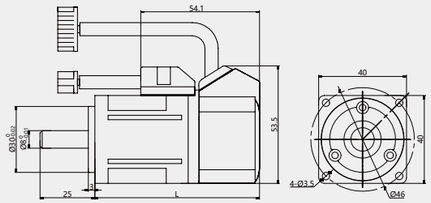


Motor Models	L-without Band-type Brake	L-with Band-type Brake
DMC-180T-R48015B0GV	251.8	284.8

◎Size of 4-pole motor

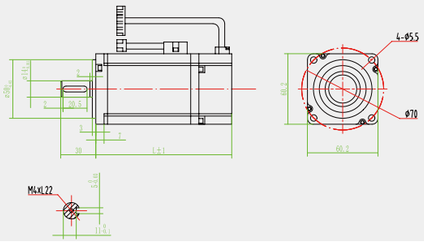
(unit:mm)

Model 40



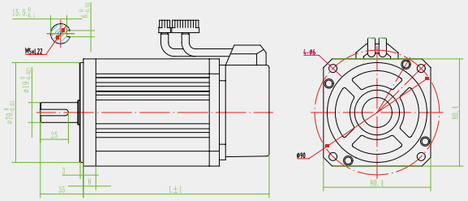
Rated torque	Motor size（mm）	
	L-without Band-type Brake	L-with Band-type Brake
0.32N.m	90	124

Model 60



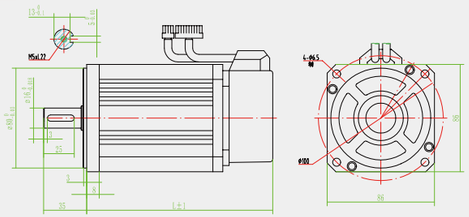
Rated torque	Motor size（mm）	
	L-without Band-type Brake	L-with Band-type Brake
0.64N.m	109	157
1.27N.m	133	181
1.92N.m	154	202

Model 80



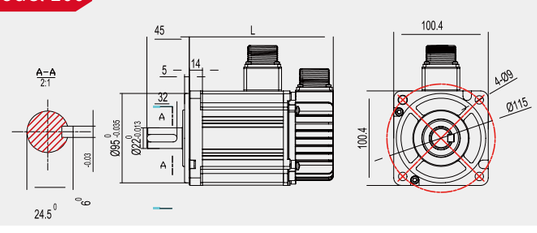
Rated torque	Motor size（mm）	
	L-without Band-type Brake	L-with Band-type Brake
1.3N.m	124	166
2.4N.m	151	193
3.5N.m	179	221
4.0N.m	191	233

Model 90



Rated torque	Motor size（mm）	
	L-without Band-type Brake	L-with Band-type Brake
2.4N.m	150	192
3.5N.m	172	214
4.0N.m	182	224

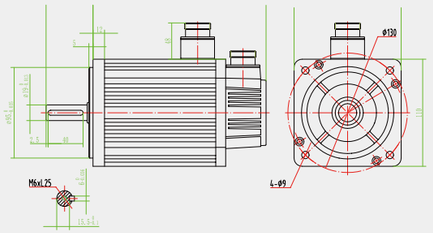
Model 100



Rated torque	Motor size（mm）	
	L-without Band-type Brake	L-with Band-type Brake
3.2N.m	153	194
6.4N.m	198	239

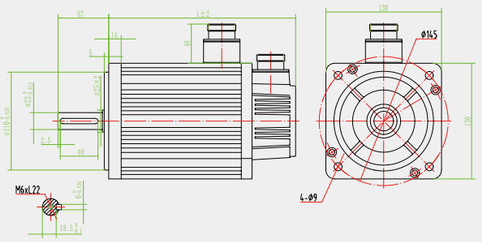
◎Size of 4-pole motor

Model 110



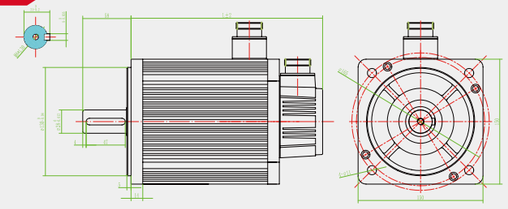
Rated torque	Motor size（mm）	
	L-without Band-type Brake	L-with Band-type Brake
2N.m	159	224
4N.m	189	254
5N.m	204	269
6N.m	219	284

Model 130



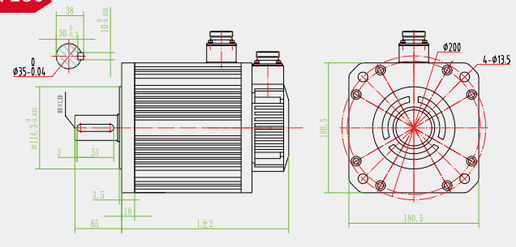
Rated torque		Motor size（mm）	
		L-without Band-type Brake	L-with Band-type Brake
4N.m		166	226
5N.m		171	231
6N.m		179	239
7.7N.m		192	252
10N.m	1000rpm	213	276
	1500rpm	213	276
	2500rpm	209	272
	3000rpm	209	272
15N.m	1500rpm	241	304
	2500rpm	231	294
	3000rpm	231	294

Model 150



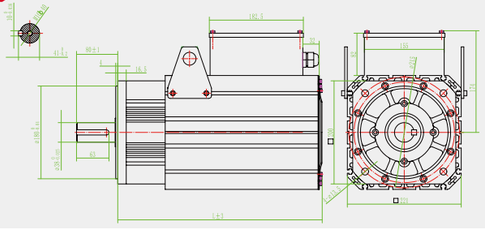
Rated torque	Motor size（mm）	
	L-without Band-type Brake	L-with Band-type Brake
15N.m	230	303
18N.m	248	321
23N.m	278	351
27N.m	302	375

Model 180



Rated torque	Motor size（mm）	
	L-without Band-type Brake	L-with Band-type Brake
17N.m	226	298
19N.m	232	304
21.5N.m	243	315
27N.m	262	334
35N.m	292	364
48N.m	346	418

Model 200

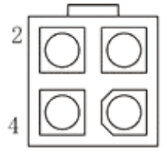


Rated torque	Motor size（mm）	
	L-without Band-type Brake	L-with Band-type Brake
70N.m	435	535

Servo cable

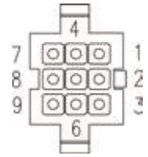
◎Terminal definition

Suitable for 40/60/80 flange motors



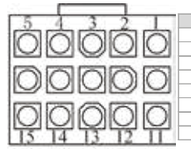
Pin	name
1	U
2	V
3	W
4	PE

Power line ordinary plug



Pin	name	Pin	name
1	PE	5	GND
2	E-	6	SD+
3	E+	7	+5V
4	SD-		

Communication encoder cable ordinary plug



Pin	name	Pin	name
1	PE	9	A+
2	+5V	10	V+
3	GND	11	W+
4	B+	12	V-
5	Z-	13	A-
6	U+	14	B-
7	Z+	15	W-
8	U-		

Incremental encoder cable ordinary plug



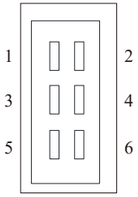
Pin	name	Pin	name
1	V+	9	B-
2	U+	10	A-
3	Z+	11	W-
4	B+	12	W+
5	A+	13	+5V
6	V-	14	GND
7	U-	15	PE
8	Z-		

CDS500/CDS501 series
Incremental encoder line driver end plug



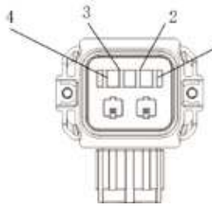
针脚	名称	针脚	名称
1	-	9	-
2	-	10	-
3	SD+	11	-
4	-	12	-
5	-	13	+5V
6	-	14	GND
7	-	15	PE
8	SD-		

CDS500/CDS501 series
Communication encoder cable driver end plug



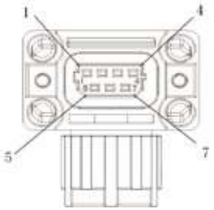
Pin	name	Pin	name
1	+5V	5	SD+
2	GND	6	SD-
3	-	shell	PE
4	-		

CDS560 series
Communication encoder cable driver end plug



Pin	name
1	U
2	V
3	W
4	PE

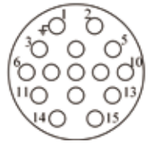
Power line sunchu plug



Pin	name
1	PE
2	E-
3	E+
4	SD-
5	0v
6	SD+
7	+5V

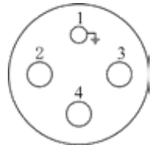
Communication encoder line cable sunchu plug

Suitable for 100/110/130 flange motors



Pin	name	Pin	name
1	PE	9	Z-
2	+5V	10	U+
3	GND	11	V+
4	A+	12	W+
5	B+	13	U-
6	Z+	14	V-
7	A-	15	W-
8	B-		

Incremental encoder cable ordinary plug



Pin	name
1	PE
2	U
3	V
4	W

Power line aviation plug（YD28-4P）



Pin	name	Pin	name
1	PE	5	GND
2	E-	6	SD+
3	E+	7	+5V
4	SD-		

Communication encoder cable aviation plug



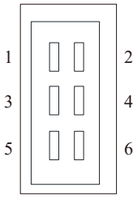
Pin	name	Pin	name
1	V+	9	B-
2	U+	10	A-
3	Z+	11	W-
4	B+	12	W+
5	A+	13	+5V
6	V-	14	GND
7	U-	15	PE
8	Z-		

CDS500/CDS501 series
Incremental encoder line driver end plug



针脚	名称	针脚	名称
1	-	9	-
2	-	10	-
3	SD+	11	-
4	-	12	-
5	-	13	+5V
6	-	14	GND
7	-	15	PE
8	SD-		

CDS500/CDS501 series
Communication encoder cable driver end plug

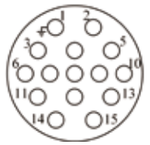


Pin	name	Pin	name
1	+5V	5	SD+
2	GND	6	SD-
3	-	shell	PE
4	-		

CDS560 series
Communication encoder cable driver end plug

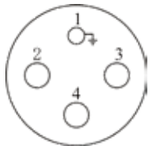
◎Terminal definition

Suitable for 150/180 flange motors



Pin	name	Pin	name
1	PE	9	Z-
2	+5V	10	U+
3	GND	11	V+
4	A+	12	W+
5	B+	13	U-
6	Z+	14	V-
7	A-	15	W-
8	B-		

Incremental encoder cable ordinary plug



Pin	name
1	PE
2	U
3	V
4	W

Power line aviation plug (YD32-4P)



Pin	name	Pin	name
1	PE	5	GND
2	E-	6	SD+
3	E+	7	+5V
4	SD-		

Communication encoder cable aviation plug



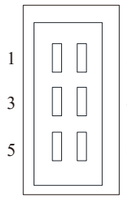
Pin	name	Pin	name
1	V+	9	B-
2	U+	10	A-
3	Z+	11	W-
4	B+	12	W+
5	A+	13	+5V
6	V-	14	GND
7	U-	15	PE
8	Z-		

CDS500/CDS501 series
Incremental encoder line driver end plug



针脚	名称	针脚	名称
1	-	9	-
2	-	10	-
3	SD+	11	-
4	-	12	-
5	-	13	+5V
6	-	14	GND
7	-	15	PE
8	SD-		

CDS500/CDS501 series
Communication encoder cable driver end plug



Pin	name	Pin	name
1	+5V	5	SD+
2	GND	6	SD-
3	-	shell	PE
4	-		

CDS560 series
Communication encoder cable driver end plug

◎Cable Naming Rules

Motor cable

DL M A1 1 U 030 G

Cable category
DL : CDS cable

Cable Type
M : Motor cable

Plug type
A1 : 4-core Anpu plug
B1:4-core small aviation plug
B2:4-core aviation plug

Wire diameter
0:0.30mm2

Line nose
U:U-shaped terminal

Line length
030 : 3m

Flexibility of wiring harness
G:Fixed line, no drag chain, fixed for use

Encoder cable

DL P00 A1 1 030 G

Cable category
DL : CDS cable

Cable Type
P00: Incremental Encoder Cable
P20: Communication Encoder Cable (DB15 Head)
P21: Communication Encoder Cable (DB15 Head+Battery)
P30: Communication Encoder Cable (6Pin Head)
P31: Communication Encoder Cable (6Pin Head+Battery)

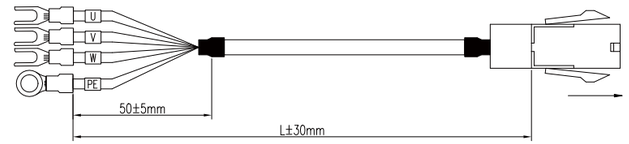
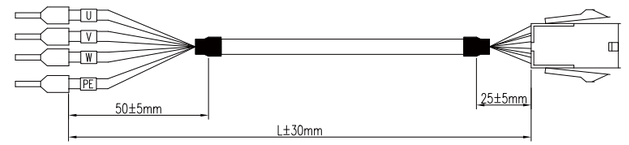
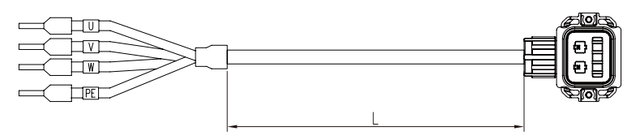
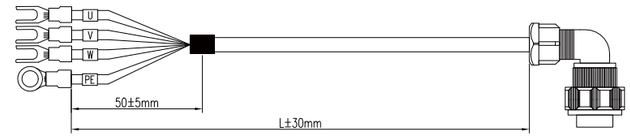
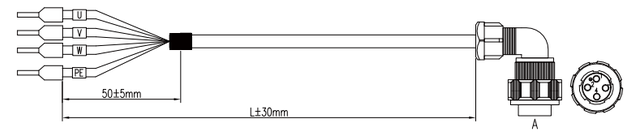
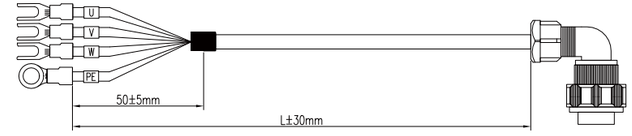
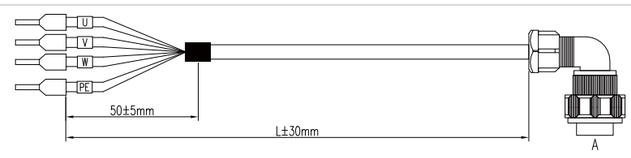
Motor end plug type
A1: 15 core Ampu plug
A2: 9 pin Ampu plug
B1: 15 core aviation plug
B2: 7 core aviation plug
F1: Sunchu plug

Wire diameter
0:0.30mm2 AWG26

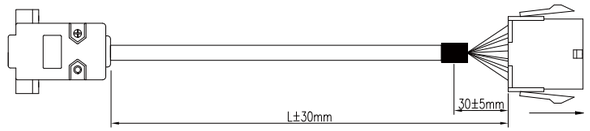
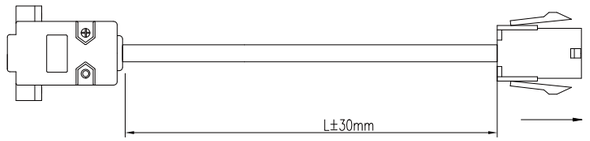
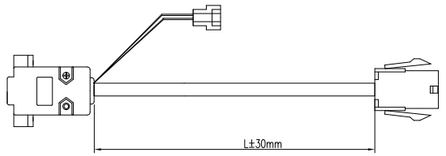
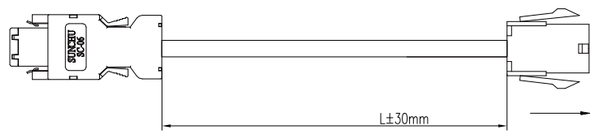
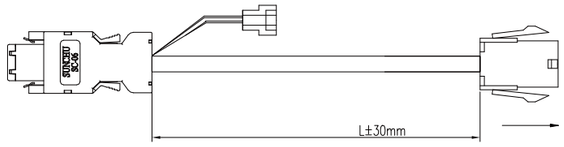
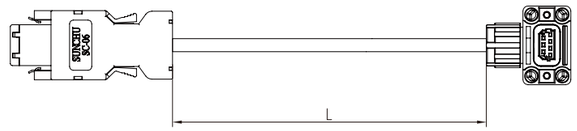
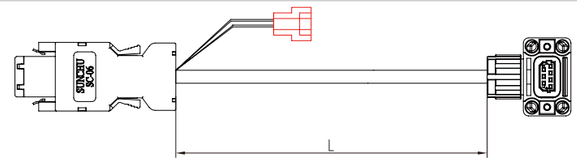
Line length
030 : 3m

Flexibility of wiring harness
G:Fixed line, no drag chain, fixed for use

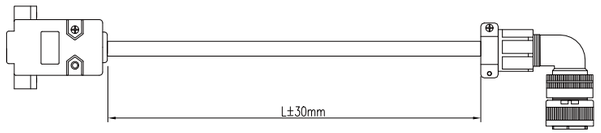
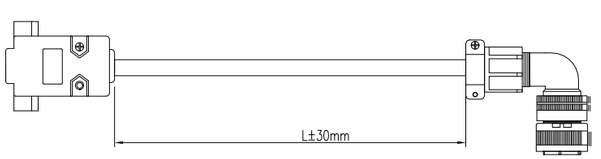
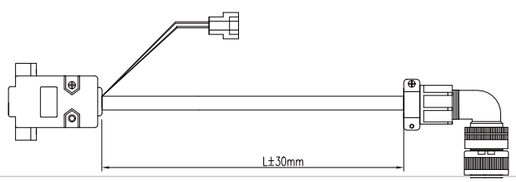
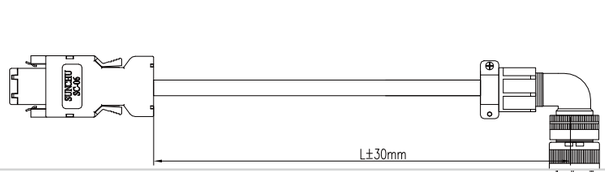
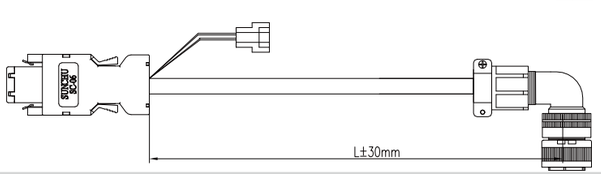
◎Specification of servo motor cable

Motor type	Cable Type	Cable model	Length (m)	Cable appearance diagram
DM*-40S DM*-60S DM*-80S	U-shaped terminal power cable	DLMA1U030G	3	
	Tube type terminal power cable	DLMA1C030G	3	
	sunchu plug tube type head power cable	DLMF1U030G	3	
DM*-110S DM*-130S	U-shaped terminal power cable	DLMB1U030G	3	
	Tube type terminal power cable	DLMB1C030G	3	
DM*-150S DM*-180S	U-shaped terminal power cable	DLMB2U030G	3	
	Tube type terminal power cable	DLMB2C030G	3	

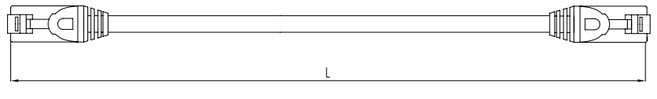
◎Specification of servo encoder cable

Motor type	Cable Type	Cable model	Length (m)	Cable appearance diagram
DM*-40S DM*-60S DM*-80S	DB15 head incremental encoder cable	DLP00A11030G	3	
	DB15 head single loop communication encoder cable	DLP20A22030G	3	
	DB15 Head Multi Loop Communication Encoder Cable	DLP21A22030G	3	
	USB head single loop communication encoder cable	DLP30A22030G	3	
	USB head Multi Loop Communication Encoder Cable	DLP31A22030G	3	
	USB head sunchu plug single loop communication encoder cable	DLP30F12030G	3	
	USB head sunchu plug Multi loop communication encoder cable	DLP31F12030G	3	

◎Specification of servo encoder cable

Motor type	Cable Type	Cable model	Length (m)	Cable appearance diagram
DM*-110S DM*-130S DM*-150S DM*-180S	DB15 head incremental encoder cable	DLP00B11030G	3	
	DB15 head single loop communication encoder cable	DLP20B22030G	3	
	DB15 Head Multi Loop Communication Encoder Cable	DLP21B22030G	3	
	USB head single loop communication encoder cable	DLP30B22030G	3	
	USB head Multi Loop Communication Encoder Cable	DLP31B22030G	3	

◎Specification of servo communication cable

Cable Type	Cable model	Length (m)	Cable appearance diagram
Straight communication cable	DL□□030	3	

PLC

DE6V Series Bus-type PLC



CDC5 Series
High-performance Economic PLC

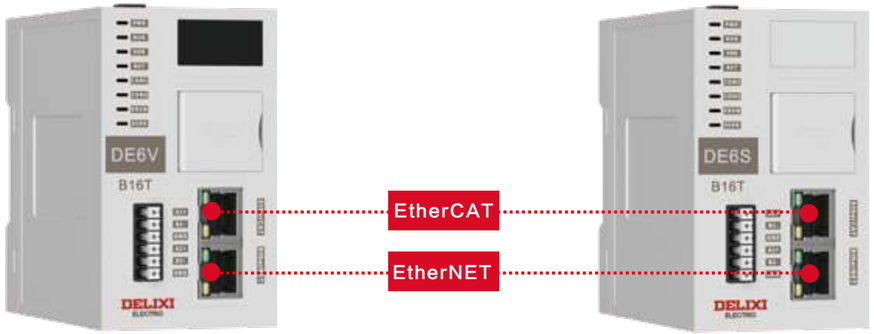


CDC1 Series
High-performance Basic PLC

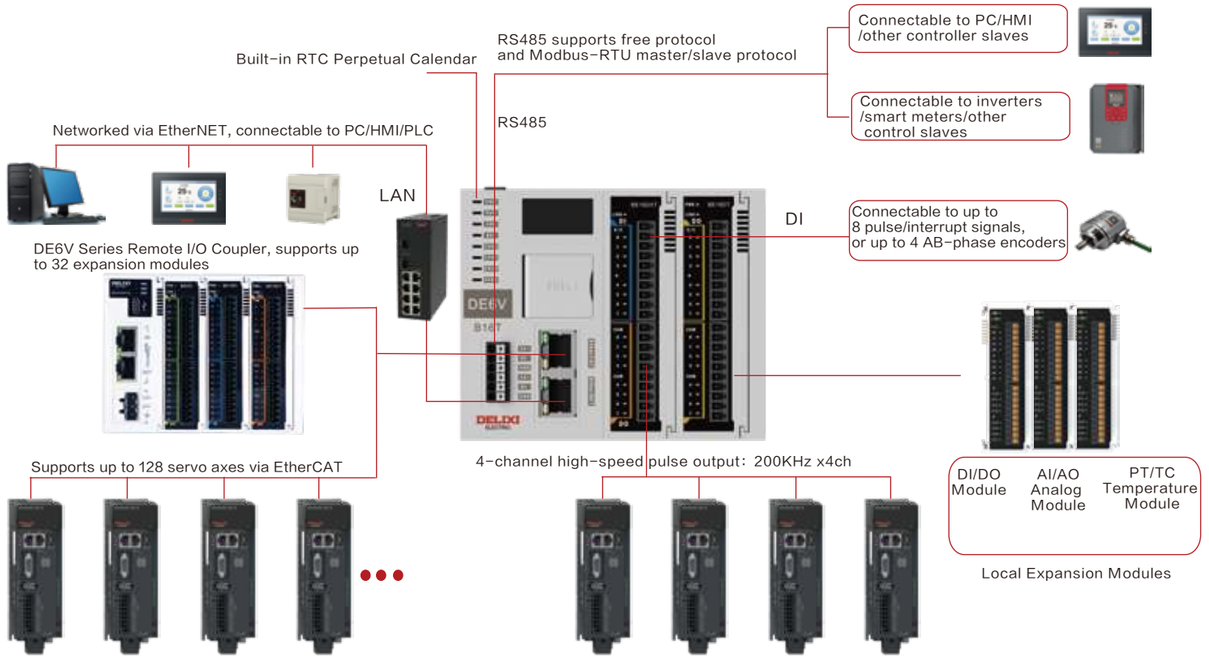


DE6V/DE6S Bus-type PLC

All-new Modular Platform PLC　Rich Interfaces　High-speed Communication　Compact Size with Large Capacity



DE6V	DE6S
• Equipped with a quad-core 1.8GHz A53 high-performance processor	• Built with quad-core 1GHz A35 high-performance processor
• Large-capacity memory: 2GB RAM, 4GB storage, expandable via TF card	• Large-capacity storage: 512MB RAM, 4GB flash memory, expandable via TF card
• Gigabit Ethernet for faster connection with HMIs, host computer databases, etc.	• 100M Ethernet for faster connection with HMIs, host computer databases, etc.
• EtherCAT Master Station, processing capacity of 32 axes @ 1ms, supports up to 128 axes of servo control	• EtherCAT Master with 16-axis processing capability @ 1ms, supporting up to 16 axes of servo control
• Supports a maximum of 64 expansion modules, with the main unit supporting up to 2048 I/O points	• Supports up to 64 expansion modules, with the main unit supporting up to 2048 I/O points
• Minimum EtherCAT synchronization cycle: 125μs	
• Equipped with a digital display for clear status indication	



Specification

Item	DE6VB16TCE / DE6SB16TCE
Running Mode	Cycle Scan / Interrupt
Programming	Instruction table / ladder diagram / FB / FC /ST
Total Instructions	Basic instruction: 29 / Application instruction: 170
Execute time	Basic instruction 0.01-0.02μs
Program Capacity	5M
Download/ Monitoring	Programming cable (Port)
	EtherNET
	USB TYPE-C
High Speed Pulse Output	Transistor type 4 channels/200KHz
High speed counter interrupt	100 channels
Timer Interrupt	100 channels, support 0.1ms interrupt
External input interrupt	X0-X7 supports both rising and falling edges
High Speed Input Single Phase	8 channels 150 KHz
High Speed Input AB Phase	4 channels 150K Hz, supports 2 or 4 frequency multiplication
Power-down save	Adjusted by software
Filter	For all the input terminals
Serial Port	RS485, RS485
Temperature	Working Temperature：0 ~ 55℃ / Storage Temperature：-20 ~ 70℃
Humidity	35~ 85%RH （Without condensation）
Shock Resistance	JISC0040 Standard
Influence Immunity	Meet the IEC61000-4-4 and GB/T 17626.4 standard:Noise voltage amplitude 1KVP-P , pulse width 10us, period 0.3 s, edge time 5ns , duration 1min
TF	Support
ETHERNET	1000M Ethernet
ETHERCAT	Up to 128 servo axis

Naming Rules

DE6V B 16 T C E 1

PLC Series
DE6V: DE6V Series
DE6S: DE6S Series

Series Type
S: Basic Type H: Motion Type
M: Mini Type B: Bus Type

I/O Points
16: Indicates total I/O points of 16

Output Type
T: Indicates NPN transistor output
P: Indicates PNP transistor output

Power Supply
A: AC220V
C: DC24V

Bus and Other Function Types
None: No special function
E: Supports EtherCAT bus communication
S: Supports Ethernet communication
H: Enhanced high-speed pulse output type

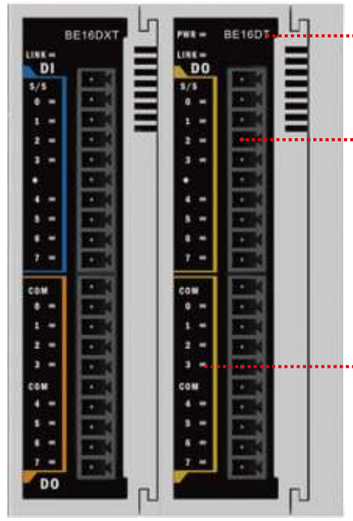
Number of Axes
0: 0 axes　1: 8 axes　2: 16 axes
3: 32 axes　4: 64 axes　5: 128 axes

Product Model

Model	I/O	Output Type	High-Speed Counter	Electronic Cam	High-Speed Output	RS485	EtherCAT Axis	Expansion Modules	Power Supply	Ethernet	Dimensions (mm)
DE6SB16TCE1	08/08	Transistor	4	YES	4	2	8	64	DC 24V	100M	84x93x98
DE6SB16TCE2							16				
DE6VB16TCE2							16			1000M	
DE6VB16TCE3							32				
DE6VB16TCE4							64				
DE6VB16TCE5							128				

DE6V/DE6S
expansion modules





Expansion module model

I/O terminal

I/O terminal

Naming Rules

DE6V BE 16 DXT

PLC Series
DE6V: DE6V Series

Series Type
BE:Bus-type expansion module

I/O Points
16: Indicates total I/O points of 16

Extended module type
DI: Indicates input type
DXT: Indicates input-output type, with NPN transistor output
DXP: Indicates input-output type, with PNP transistor output
DT: Indicates NPN transistor output type
DP: Indicates PNP transistor output type
PT: Indicates support for PT100 thermocouple
TC: Indicates support for K, T, E-type thermocouples
AI: Indicates support for analog input
AO: Indicates support for analog output
HC: Encoder input module
WT: Weighing module
PG: High-speed pulse output module

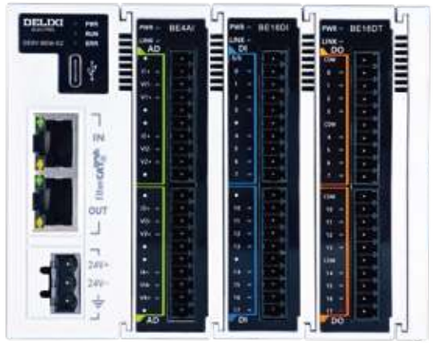
Product Model

Expansion module type and model		function	Expansion module type and model		function
I/O	DE6VBE16DI	16-channel DI input module	analog quantity	DE6VBE4AI	4-channel AI analog input module
	DE6VBE32DI	32-channel DI input module		DE6VBE4AO	4-channel AO analog output module
	DE6VBE16DT	16-channel DO transistor output module (NPN)	temperature	DE6VBE4PT	4-channel RTD PT100 type
	DE6VBE32DT	32-channel DO transistor output module (NPN)		DE6VBE4TC	4-channel thermocouple K, T type
	DE6VBE16DXT	8-channel DI input, 8-channel DO transistor output module (NPN)			
	DE6VBE32DXT	16-channel DI input, 16-channel DO transistor output module (NPN)			

DE6V/DE6S
Remote I/O coupler

Based on EtherCAT bus technology, with faster, more stable, and more convenient diversified module types, it easily meets various system configurations.





Naming Rules

DE6V BEM E 2

PLC Series
DE6V: DE6V Series

Series Type
BEM:Bus-type remote I/O coupler

Bus type
E: EtherCAT

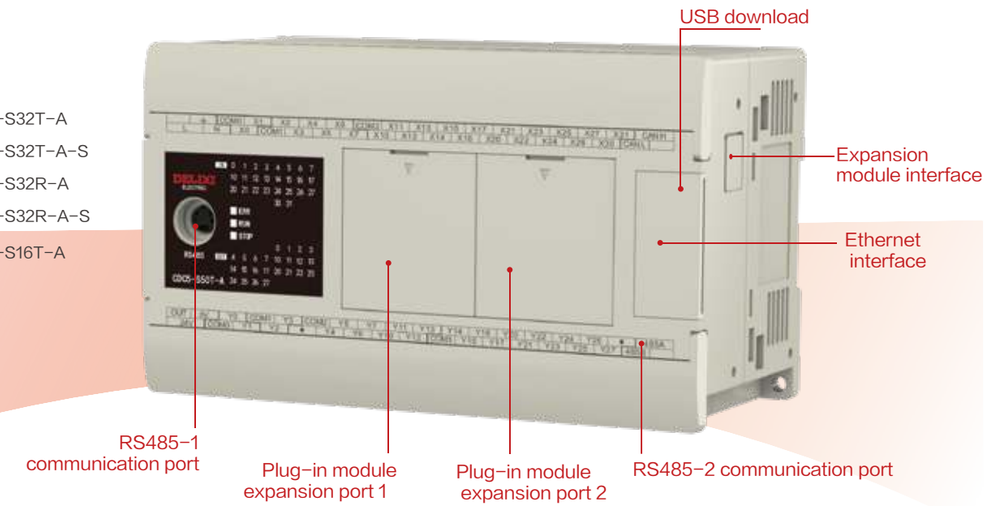
Expansion quantity
2:Maximum expansion 16-channel expansion module
3:Maximum expansion 32-channel expansion module

Specifications

Model	DE6VBEME2	DE6VBEME3
Maximum expansion module	16	32
Rated input voltage	DV 24V±10%, 100mA (without expansion module)	
Communication interface	RJ45×2, EtherCAT communication protocol with 100Mbps performance; EtherCAT IN: EtherCAT input port;EtherCAT OUT: EtherCAT output port.	
Transmission distance	Length of communication line between two nodes≤100m	
Transmission medium	Category 5E (cat 5e) cable or above	
Single AP process data	Maximum input and output 1024 bytes	
Synchronous	Minimum 125us	
Allowable instantaneous power-	10ms	
Impulse current	≤45A (loaded with maximum module)	
Power protection	Anti-reverse connection protection; overcurrent protection; surge absorption	
Firmware upgrade	Support	
Usage environment	No corrosive, combustible gas, no large amount of conductive dust	
Environment temperature	Operating temperature: -20℃ to 55℃Storage temperature: -40℃ to 70℃	
Environment humidity	Working humidity: 10% to 90%RH (No condensation)Storage humidity: ≤90%RH (No condensation)	
Altitude	0-2000m	
Installation	Installed on rail by fastener	
Overall size	40.0 *92.0 *95.0 mm	
Available module type	DE6V series expansion module	

CDC5 Series Basic Host

- ◆CDC5-S66T-A
- ◆CDC5-S66T-A-S
- ◆CDC5-S66R-A
- ◆CDC5-S66R-A-S
- ◆CDC5-S50T-A
- ◆CDC5-S50T-A-S
- ◆CDC5-S50R-A
- ◆CDC5-S50R-A-S
- ◆CDC5-S32T-A
- ◆CDC5-S32T-A-S
- ◆CDC5-S32R-A
- ◆CDC5-S32R-A-S
- ◆CDC5-S16T-A



Product Characteristics

Powerful hardware and software configuration

■ The hardware is a 32-bit microcontroller based on the Arm* Cortex*-M4 core, main frequency: 200MHz. With better hardware anti-interference performance, it can cope with grid power fluctuations stably and ensure continuous and efficient operation of the machine.

■ Compiled type underlying software ensures an extremely short scan cycle. Furthermore the execution speed is more than 10 times that of the machine configured with interpretation PLC

Rich communication interfaces

■ Ethernet interface, support Modbus TCP/IP protocol

■ RS485 communication port, support Modbus RTU and free communication protocol

■ One full-speed USB download port

■ PLC can be downloaded and monitored from any communication port

Flexible and comprehensive performance

■ Ethernet unit supports 4-way high-speed pulse output, and 4-way high-speed counting input, with powerful motion control function and command function

■ Communication rate of the right CAN communication-based expansion module can reach 1Mbps and expand 16 expansion modules

■ Expansion modules can run programs as standalone control units

■ The front supports two small plug-in expansion modules, which can be arbitrarily matched with digital IO module, analog module and temperature module combination, plug in and play

Upgraded upper computer software Visual PLC CDC5

■ Compilation speed <0.5s, download speed<3s, online programming allowed

■ Visual PLC CDC5 supports the programming of instruction list, function block graph and SFC stepping ladder diagram. High self-definition of user UI, including rich PLC instructions; function blocks can be programmed by C language

■ Compiled structure for software, which ensures no de-compilation and no program cracking

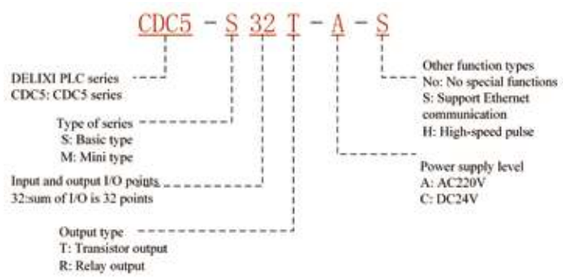
■ The software is highly compatible to rivals' products and it can convert the ladder diagram diagrams of the same kind into Delixi ladder diagram directly

■ PLC program can be downloaded via touch screen

Product configuration

Models		CDC5-S66T-A / CDC5-S66T-A-S	CDC5-S66R-A / CDC5-S66R-A-S	CDC5-S50T-A / CDC5-S50T-A-S	CDC5-S50R-A / CDC5-S50R-A-S	CDC5-S32T-A / CDC5-S32T-A-S	CDC5-S32R-A / CDC5-S32R-A-S	CDC5-S16T-A
Structure and Environment	Overall dimensions (mm)	194x97x81		163× 97 × 81		125 × 97 × 81		70 × 97 × 81
	Weight (g)	690		580		500		305
	Operating ambient temperature	-25 ℃ ~ 55 ℃ (no freezing)						
	Operating ambient humidity	5~95%RH (no condensation)						
	Shock resistance intensity	10~25Hz (XYZ direction 2G/30 min)						
Power	Power supply	AC 220V						
Input Parameters	High-speed counting	4-way single-phase(X0、X2、X4、X6) 200kHz 4-way single-phase (X1、X3、X5、X7) 20KHZ				2-way single-phase(X0、X2) 200kHz 2-way single-phase (X1、X3) 20KHZ		2-way single-phase (X0、X1)200kHz
	AB phase counting	4-way AB phase (X0X1、X2X3、X4X5、X6X7) 200kHz				2-way AB phase (X0X1、X2X3) 200kHz		1-way AB phase (X0X1) 100kHz
	Switching input	34	34	26	26	16	16	8
	Input wiring	Support SINK/SOURCE (sink/source) conversion by COM point collinear mode						
	Input signal voltage	DC24V±20%						
Output Parameters	Max. inductive load	12VA						
	Max. resistive load	Single point 0.5A, common point 2A						
	Pulse output	200KHz for 4 ways respectively at maximum	——	200KHz for 4 ways respectively at maximum	——	200KHz for 4 ways respectively at maximum	——	200KHz for 2 ways respectively at maximum
	Switching output	32	32	24	24	16	16	8
	Output type	Transistor/NPN	Relay	Transistor/NPN	Relay	Transistor/NPN	Relay	Transistor/NPN
	Output voltage	DC24V	AC220V/DC24V	DC24V	AC220V/DC24V	DC24V	AC220V/DC24V	DC24V
Interfaces	RS485	1-way mini485 + 1-way regular 485						
	USB device port	Support upload and download, online monitoring						
	Ethernet port	Please select "-S" model product for Ethernet port communication						——
	Front expansion slot	2 pcs				1 pcs		——
	Right extension module	16-way standard module						——
Other Parameters	FCC compatibility	Conform to FCC, Class A						
	Withstand voltage test	1,000V AC, 1 min						
	CE certification	Conform to standards of EN55032 and EN55035						
	IP rating	IP30						
Software	Upper computer software	Visual PLC CDC5						

Naming rules

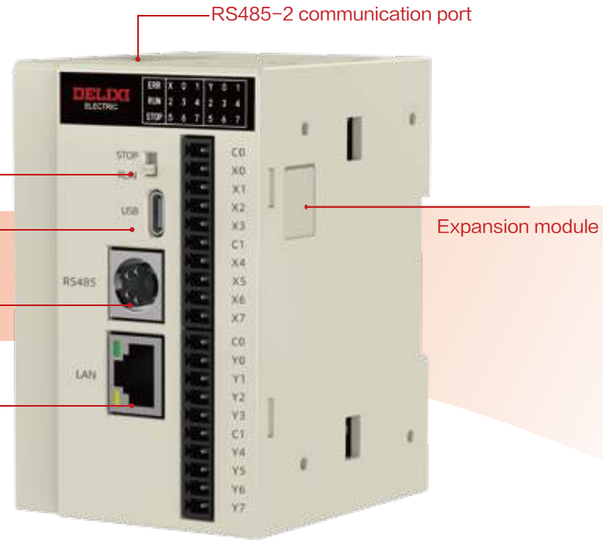


Basic PLC plug-in module

DELIXI Models	Overall Dimensions	Input	Output
CDC5-SF8DI	39x46x33 (mm)	8-way digital input	No
CDC5-SF8DT		No	8-way transistor output
CDC5-SF8DXT		4-way digital input	4-way transistor output
CDC5-SF4TC		4-way temperature K and T model	No
CDC5-SF4PT		4-way temperature PT100 model	No
CDC5-SF4AI		4-way analog input	No
CDC5-SF2AI1AO		2-way analog input	1-way analog input

CDC5 Series Mini Host

◆CDC5-M16T-C-S



Product Characteristics

- The unit supports 4-way high-speed pulse output, and 4-way high-speed counting input, with powerful motion control functions
- Communication rate of right CAN communication-based expansion module based on CAN communication can reach 1Mbps and expand 16 expansion modules
- Fast (compiled type architecture directly executes the underlying code, with a speed of more than 10 times faster than interpreted architecture)
- Good security (upload, download, monitor password, prohibit upload, folder password, subprogram password, function block password, etc.)
- Rich communication interfaces (1 Ethernet interface, supporting Modbus TCP/IP protocol; 1 RS485 communication port, supporting Modbus RTU and free port communication protocol; 1 full-speed USB download port)
- Large storage capacity (support more than 20,000 lines of user program storage area, and 16KByte power off storage area)

Product configuration

Models		CDC5-M16T-C-S
Structure and Environment	Overall dimensions (mm)	64×97×72
	Weight (g)	239
	Operating ambient temperature	-25 °C ~ 55 °C (no freezing)
	Operating ambient humidity	5~95%RH (no condensation)
	Shock resistance intensity	10~25Hz (XYZ direction 2G/30 min)
Power	Power supply	DC 24V
Input Parameters	High-speed counting	4-way single-phase(X0、X2、X4、X6) 200kHz 4-way single-phase（X1、X3、X5、X7）20KHZ
	AB phase counting	4-way AB phase(X0X1、X2X3、X4X5、X6X7) 200kHz
	Switching input	8
	Input wiring	Support SINK/SOURCE (sink/source)
	Input signal voltage	DC24V±20%
Output Parameters	Max. inductive load	12VA
	Max. resistive load	Single point 0.5A, common point 2A
	Pulse output	200KHz for 4 ways respectively at maximum
	Switching output	8
	Output type	Transistor/NPN
	Output voltage	DC24V
Interfaces	RS485	1-way mini485 + 1-way regular 485
	USB device port	Support upload and download, online monitoring
	Ethernet port	Yes
	Front expansion slot	——
	Right extension module	16-way standard module
Other Parameters	FCC compatibility	Conform to FCC, Class A
	Withstand voltage test	1,000V AC, 1 min
	CE certification	Conform to standards of EN55032 and EN55035
	IP rating	IP30
Software	Upper computer software	Visual PLC CDC5

CDC5 Series Universal Standard Extension Modul



Naming rules

CDC5 - SME 16 DXT - C

- CDC5: DELIXI PLX series; CDC5: CDC5 series
- SME: Types of series
  - SME: Basic and mini expansion modules
  - SF: Basic plug-in module
  - SE: Basic extension module (CDC1)
  - ME: Mini expansionmodule (DCD1)
- 16: Input and output points; 16: means 16 points
- DXT: Extension type
  - DI: Input type
  - DXT: Input and output types; output is transistor
  - DXR: Input and output types; output is relay
  - DT: Output types of transistor
  - DR: Output types of relay
  - PT: Support PT100 thermocouple
  - TC: Support K-type, T-type and E-type thermocouples
  - A1: Support analog input
  - A0: Support analog output
- C: Power supply level; No: No power supply; C: DC24V

Product Models	Input	Output	RS485	Power Supply Mode
CDC5-SME12DR-C	No	12-way relay input	1-way routine	DC24V
CDC5-SME16DI-C	16-way digital input	No	Not supported	DC24V
CDC5-SME16DT-C	No	16-way transistor output	1-way routine	DC24V
CDC5-SME16DXT-C	8-way digital input	8-way transistor output	1-way routine	DC24V
CDC5-SME16DXR-C	8-way digital input	8-way relay output	1-way routine	DC24V
CDC5-SME16T-C-H	8-way digital input (2-way AB phase)	8-way transistor output (4-way pulse)	1-way routine	DC24V
CDC5-SME4TC4DT-C	4-way temperature K and T types	4-way transistor output	1-way routine	DC24V
CDC5-SME4AI4DT-C	4-way analog input	4-way transistor output	1-way routine	DC24V
CDC5-SME4AI2AO-C	4-way analog input	2-way analog output	1-way routine	DC24V
CDC5-SME4PT4DT-C	4-way temperature PT100	4-way transistor output	1-way routine	DC24V

* Standard expansion modules are compatible with both basic and mini units

CDC5 Series Communication Lines

Name	Models	Specification Descriptions
HMIn-PLC Communication Line	HMI-PLC-02-2.5	CDC5 series PLC and HMI communication cable, cable length 2.5 m
	HMI-PLC-02-5.0	CDC5 series PLC and HMI communication cable, cable length 5 m
	HMI-PLC-02-10.0	CDC5 series PLC and HMI communication cable, cable length 10 m

*The communication mode of CDC5 and HMI can be changed to RS485 communication.
If so, it is no longer compatible with CDC1 communication line

CDC1 Series Basic Host



CDC1 -S 32 T - A

CDC1 means DELIXI PLC

S means Basic type,M means MINI type
H means motion control type

32 means sum of I/O points of PLC

R means the switching output of PLC is relay output
T means the switching output of PLC is transistor output

A: means 220V AC power supply

Product Characteristics

32-bit high performance CPU
Compiled execution mode, scan cycle 10 times faster than analytical type

Multilayer encryption protection
Include such protections as upload password, download password, monitoring password, subprogram password, etc. to safeguard the legitimate rights and interests of users

Fast instruction execution
The execution time of single-step operation instruction can reach 0.05μs

Easy to download and monitor
The USB interface supports USB download program and monitors program running status

High-performance high-speed pulse input / output
Support 2-channel or 4-channel high-speed pulse output, 200 KHz at maximum
Support 2 single-phase or 1-channel AB phase high-speed pulse counting, 200 KHz at maximum

Easy software installation and programming
Easy installation of programming software,
rich and convenient programming interface tools

Powerful expansion capabilities
Support up to 8 expansion modules, multiple expansion modules are optional

Communication interfaces
2 communication ports (one is RS232 and the other is RS485)

Large storage capacity
More than 20,000 lines of user program storage area, and larger program capacity (2Kbyte)
Higher data security by power-off storage area

Convenient networking
ModbusRTU master-slave mode supporting RS485 can realize networking and connect 127 communication devices at most

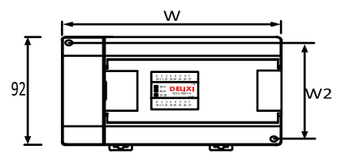
Product configuration

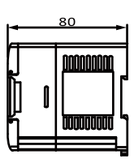
Model	CDC1-S16T-A	CDC1-S32T-A	CDC1-S48T-A	CDC1-S64T-A	CDC1-S16R-A	CDC1-S32R-A	CDC1-S48R-A	CDC1-S64R-A
Power supply								
Power (W)	2.6	3	3.4	3.6	3.2	5.2	6	6.8
Power supply	AC100V ~ 240V							
Input parameters								
Digital input	8	16	24	32	8	16	24	32
SINK/SRCE wiring	Transformed by internal common point terminal S/S and external common line wiring							
Input signal voltage	DC24V±20%							
High-speed counting	2 ways, up to 200KHz respectively		4 ways, up to 200KHz respectively		2 ways, up to 200KHz respectively			
AB phase counting	One way, up to 200KHz respectively		2 ways, up to 200KHz respectively		One way, up to 200KHz respectively			
Output parameters								
Digital output	8	16	24	32	8	16	24	32
Output type	Transistor				Relay			
Output voltage	6 ~ 30VDC				<250VAC, 30VDC			
Max. inductive load	12W				80VA			
Max. resistance load	0.5A/high speed, up to 200KHz (Y0/Y1) respectively; 0.2A/low speed 10KHz (Y2 ~ Y7), not exceed 3A at common point		0.5A/high speed, up to 200KHz (Y0 ~ Y3) respectively; 0.2A/low speed 10KHz (Y4 ~ Y7), not exceed 3A at common point		Single end: 2A, common point: 4A			
Pulse output	2 ways, up to 200KHz respectively		4 ways, up to 200KHz respectively		/			
Interface								
RS232	1 (MINI232 interface supports upload and download, monitoring, serial communication, with baud rate 1200Bps ~ 115200Bps)							
RS485	1 (supports serial communication, with baud rate 4800Bps ~ 115200Bps)							
RJ45	No							
USB DEVICE INTERFACE	Support upload and download, online monitoring							
Other parameters								
FCC compatibility	Comply with FCC, Class A							
Voltage withstand test	1000V AC, 1 minute							
CE certification	In line with EN55032 and EN55035 standards							
Protection level	IP30							
Structure and environment								
Dimensions (W*H*D)	109.5*92*80(mm)	147.6*92*80(mm)	185.7*92*80(mm)	216*92*80(mm)	109.5*92*80(mm)	147.6*92*80(mm)	185.7*92*80(mm)	216*92*80(mm)
Weight (g)	454	563	710	769	465	590	750	831
Ambient temperature	0℃ ~ 55℃ (No freeze)							
Working environment humidity	5 ~ 95%RH (No condensation)							
Shock resistance	10 ~ 25HZ (XYZ direction 2G/30 minutes)							
Software								
Host computer software	DELIXI-PLC I (Website: http://www.delixidrive.com)							

CDC1 Basis PLC Expansion Modules

Model	CDC1-SE16DXR-C	CDC1-SE16DXT-C	CDC1-SE16DI-C	CDC1-SE16DR-C	CDC1-SE16DT-C	CDC1-SE6AX-C	CDC1-SE4PT-C
Input parameters							
Digital input	8	8	16	/	/	/	/
Analog input	/	/	/	/	/	4 (16-bit)	/
Thermocouple input	/	/	/	/	/	/	4 (16-bit)
Output parameters							
Digital output	8	8	/	16	16	/	/
Output type	Relay	Transistor	/	Relay	Transistor	/	/
Analog output	/	/	/	/	/	2 (16-bit)	/

Dimension Drawing





Note:

1. Please see the Parameter Rule Table for details of dimensions

2. Install it via DIN rail (35mm wide) or using (bolt) (M4) directly

CDC1 Series Mini Host



CDC1 -M 16 T - C - H

- CDC1 means DELIXI PLC
- M means MINI type
- 16 means sum of I/O points of PLC
- R means switch output of PLC is relay
  T means switch output of PLC is transistor
- C: means 24V DC power supply
- H: means high-speed pulse output enhanced type

Product Characteristics

32-bit high performance CPU
Compiled execution mode, scan cycle 10 times faster than analytical type

Multilayer encryption protection
Include such protections as upload password, download password, monitoring password, subprogram password, etc. to safeguard the legitimate rights and interests of users

Fast instruction execution
The execution time of single-step operation instruction can reach 0.05μs

Easy to download and monitor
USB interface supports USB download program, and monitors program running status

High-performance high-speed pulse input / output
Support 2-way or 4-way high-speed pulse output, 200 KHz at maximum
Support 2 single-phase or 1-way AB phase high-speed pulse counting, 200 KHz at maximum

Easy software installation and programming
Easy installation of programming software, rich and convenient programming interface tools

Ultra-small mounting size
Smaller volume, which facilitates installation and saves more installation space for users

External clock chip
External real-time clock chip, which improves clock accurac

Large storage capacity
More than 20,000 lines of user program storage area, and larger program capacity (2Kbyte)
Higher data security by power-off storage area

Interruption function
Support interruption functions, including external and timer interruptions; timely response of given signal without the influence of main program scan cycle

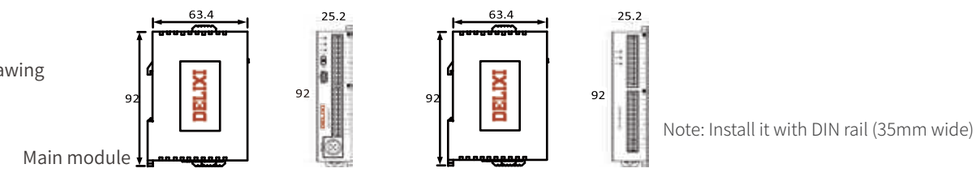
Product configuration

Model	CDC1-M16T-C	CDC1-M16T-C-H	CDC1-M14R-C
Power supply			
Power (W)	1.5		
Power supply	DC24V±15%		
Input parameters			
Digital input	8	8	8
SINK/SRCE wiring	Transformed by internal common point terminal S/S and external common line wiring		
Input signal voltage	DC24V±20%		
High-speed counting	2 ways, up to 200KHz respectively	4 ways, up to 200KHz respectively	/
AB phase counting	One way, up to 200KHz respectively	2 ways, up to 200KHz respectively	/
Output parameters			
Digital output	8	8	6
Output type	Transistor	Transistor	Relay
Output voltage	6～30VDC	6～30VDC	<250VAC，30VDC
Max. inductive load	12W	12W	80VA
Max. resistance load	Max. 0.3A for single point	Max. 0.3A for single point	Single end: 2A; single end: 4A
Pulse output	2 ways, up to 200KHz respectively	4 ways, up to 200KHz respectively	/
Interface			
RS232	1 (MINI232 interface supports upload and download, monitoring, serial communication, with baud rate 1200Bps ~ 115200Bps)		
RS485	No		
RJ45	No		
USB DEVICE INTERFACE	Support upload and download, online monitoring		
Other parameters			
FCC compatibility	Comply with FCC, Class A		
Voltage withstand test	1000V AC, 1 minute		
CE certification	In line with EN55032 and EN55035 standards		
Protection level	IP30		
Structure and environment			
Dimensions (W*H*D)	25.2*92*63.4(mm)		
Weight (g)	102		
Ambient temperature	0℃～55℃ (No freeze)		
Working environment humidity	5～95%RH (No condensation)		
Shock resistance	10～25HZ (XYZ direction 2G/30 minutes)		
Software			
Host computer software	DELIXI-PLC I (Website: http://www.delixidrive.com)		

CDC1 Mini type PLC expansion modules

Model	CDC1-ME16DXT	CDC1-ME16DXR	CDC1-ME16DI	CDC1-ME16DT	CDC1-ME12DR
Input parameters					
Digital input	8	8	16	/	/
Analog input	/	/	/	/	/
Thermocouple input	/	/	/	/	/
Output parameters					
Digital output	8	8	/	16	12
Output type	Transistor	Relay	/	Transistor	Relay
Analog output	/	/	/	/	/

Dimension Drawing



Main module

Expansion module

Note: Install it with DIN rail (35mm wide)

CDC1 Series Motion Host



CDC1 -H 64 T - A

- CDC 1 means DELIXI PLC
- H means motion control type
- 32 means sum of I/O points of PLC
- P means switch output of PLC is relay
  T means switch output of PLC is transistor
- A: means 220V AC power supply

Product Characteristics

32-bit high performance CPU
Compiled execution mode, scan cycle 10 times faster than analytical type

Rich programming instructions and library functions
More than 30 special control instructions for motion control make programming faster
Rich library functions that can be called whenever possible

High-performance high-speed pulse input / output
Support 2 ways or 4 ways of high-speed pulse output, 200KHz at maximum
Supports 2-way single-phase or 1-way AB phase high-speed pulse counting, 200KHz at maximum

Large storage capacity
More than 20,000 lines of user program storage area, and larger program capacity (2Kbyte)
Higher data security by power-off storage area

Multilayer encryption protection
Include such protections as upload password, download password, monitoring password, subprogram password, etc. to safeguard the l egitimate rights and interests of users

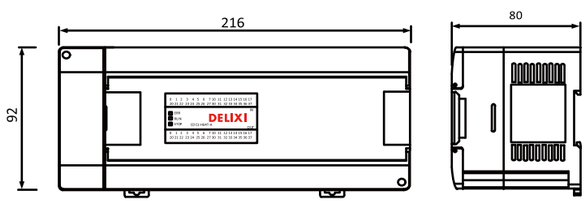
Easy to download and monitor
USB interface supports USB download program, and monitors program running status

Special for motion control
Customized for motion control; supports 10-axis output control, with excellent motion control performance; easy to use

Communication port
2 communication ports (one is RS232 and the other is RS485)

Convenient networking
ModbusRTU master-slave mode supporting RS485 can realize networking and connect 127 communication devices at most

Dimension Drawing



Note: Install it via DIN rail (35mm wide) or using (bolt) (M4) directly

Product configuration

Model	CDC1-H64T-A
Power supply	
Power (W)	3.6
Power supply	AC100V～240V
Input parameters	
Digital input	32
SINK/SRCE wiring	Transformed by internal common point terminal S/S and external common line wiring
Input signal voltage	DC24V±20%
High-speed counting	12 ways, up to 200KHz respectively
AB phase counting	6 ways, up to 200KHz
Output parameters	
Digital output	32
Output type	Transistor
Output voltage	6～30VDC
Max. inductive load	12W
Max. resistance load	0.5A/high speed, up to 500KHz (Y0～Y11) respectively; 0.2A/low speed 10KHz (Y12 ~ Y37), not exceed 3A at common point
Pulse output	10 ways, up to 500KHz respectively
Interface	
RS232	1 (MINI232 interface supports upload and download, monitoring, serial communication, with baud rate 1200Bps ~ 115200Bps)
RS485	1 (supports serial communication, with baud rate 4800Bps ~ 115200Bps)
RJ45	No
USB DEVICE INTERFACE	Support upload and download, online monitoring
Other parameters	
FCC compatibility	Comply with FCC, Class A
Voltage withstand test	1000V AC, 1 minute
CE certification	In line with EN55032 and EN55035 standards
Protection level	IP30
Structure and environment	
Dimensions (W*H*D)	216*92*80(mm)
Weight (g)	769
Ambient temperature	0℃～55℃ (No freeze)
Working environment humidity	5～95%RH (No condensation)
Shock resistance	10～25HZ (XYZ direction 2G/30 minutes)
Software	
Host computer software	DELIXI-PLC I (Website: http://www.delixidrive.com)

CDC1 Series Communication Lines

Name	Models	Specification Descriptions
HMIn-PLC Communication Line	HMI-PLC-01-2.5	CDC1 series PLC and HMI communication cable, cable length 2.5 m
	HMI-PLC-01-5.0	CDC1 series PLC and HMI communication cable, cable length 5 m
	HMI-PLC-01-10.0	CDC1 series PLC and HMI communication cable, cable length 10 m

HMI



CDH-B Series



CDH-C Series

Product Characteristics

Communication mode

The built-in COM is provided with RS232/422/485 communication mode, and 2 COM communication ports. It can communicate in a serial manner quickly at the same time.

Software download

The product is designed with download ports of USB interface master station and USB slave station. To be specific, the download port of USB slave station supports 10M/S transmission speed to realize fast download; USB port (plug-and-play) supports connecting USB disk, printer, mouse or other USB devices.

Network card

10M/100M adaptive network card supports the establishment of network by HMI and other equipment, so as to exchange data quickly and achieve industrial Ethernet communication.

Gallery

Provide a large number of rich vector galleries which can be used for various industries; support custom vector graphics, which can be self-drawn; support the images with the format of BMP, JPG, etc. as gallery graphics; provide standard common vector frame.

Penetration communication

PC can communicate directly with PLC or connected equipment through HMI; 2 HMI can communicate with 1 PLC simultaneously.

Ethernet communication

Realize communication between HMI and HMI, HMI and control equipment through Ethernet network.

Macroinstruction

Support C language script; support self-setting function library; support free port communication protocol; support mathematical operation function of C standard; interface is more familiar, and easy to use; multiple execution methods available.

USB flash drive

Support U disk update; support the import and export of U disk data; support update formula of U disk.

产品配置

产品型号		CDH-B050S	CDH-B050E	CDH-B070S	CDH-B070E	CDH-B070SM	CDH-B070EM	CDH-B102S	CDH-B102E	CDH-C043E	CDH-C070SM	CDH-C070EM	CDH-C102S	CDH-C102E	CDH-C156S-G
Display	Display panel	5” (L: W=16:9)		7” (L: W=16:9)				10.2"(L: W=16:9)		4.3"(L: W=16:9)	7"(L: W=16:9)		10.2"(L: W=16:9)		15.6"(L: W=16:9)
	Resolution (pixels)	480x272 pixels		800x480 pixels				1024x600 pixels		480x272 pixels	800x480 pixels		1024x600 pixels		1920×1080 pixels
	Touch panel	4-wire high precision touch panel													
	Display color	16.77 million													
	Backlight module	LED													
	Contrast ratio	400:1		400:1				450:1		400:1					700:1
	Brightness (cd/m2)	400cd/m2		450				500		400	450				300
Product Characteristics/Certification	Memory	128M DDR3		128M DDR3				128M DDR3		128MB DDR3					256MB DDR3
	Central processor	CortexA8 600MHz		CortexA8 600MHz				CortexA8 600MHz		CortexA7 1GHz dual core					Cortex A7 1.2GHz
	FCC compatibility	Conform to FCC and Class A													
	Withstand voltage test	1,000V AC, 1 min													
	CE certification	Conform to standards of EN55032 and EN55035													
	IP rating (front panel)	IP65 (front panel)													
	Shell materials	Engineering plastics ABS+PC													Aluminum alloy galvanized sheet
Power Supply	Power supply/Power consumption	DC24V(±15%)/4W		DC24V(±15%)/5W				DC24V(±15%)/7W		DC12-24V(±15%)/3W	DC12-24V(±15%)/4W		DC12-24V(+15%)/7W		DC12-24V(+15%)/10W
Interfaces	Serial interface	COM:RS232/422/485		COM1:RS232/422/485; COM2:RS232/422/485				COM1:RS232/422/485; COM2:RS232/422/485		COM1:RS232; COM2:RS485/422	COM1:RS232; COM2:RS485/422				COM1：RS232 COM2：RS422/485 COM3:RS485
	USB download port	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	USB flash disk port	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Ethernet port	Yes	No	Yes	No	Yes	No	Yes	No	No	Yes	No	Yes	No	Yes
Working Environment	Temperature/Humidity	-10 °C ~65°C (no freezing)/10 ~ 90%RH (no condensation)								-20°C-55°C(no freezing)/5-95%RH(no condensation)					
	Shock resistance intensity	10 - 25 Hz (XYZ direction: 2G/30 min)													
Structure	Overall dimension (W*H*D)	165*103*39(mm)		227*153*40(mm)		203*145*40(mm)		275*210*44(mm)		139*86*31(mm)	203*145*35(mm)		273*211*44(mm)		395×257×31(mm)
	Opening size (W*H)	157* 95(mm)		210*144(mm)		192*138(mm)		259*201(mm)		130*80（mm)	192*138(mm)		259*201(mm)		384×247(mm)
	Net weight	0.33kg		0.7kg				1.05kg		0.2kg	0.7kg		1.05kg		2.3kg

HMI accessories (Optional)

USB communication cable is used for uploading and downloading engineering files, and connecting PC and HMI. Communication cable connects PLC and HMI to realize data communication. The corresponding cable can be selected according to the PLC model used

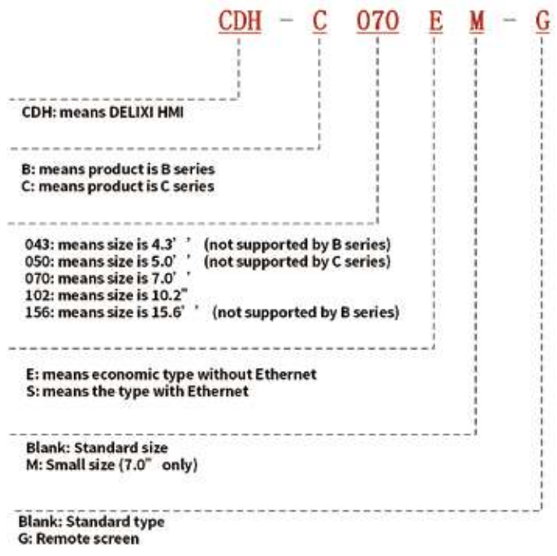


USB communication cables



Communication cables

Naming rules



Application Fields

Applications of Servo Systems for Six Mature Industries

After years of R&D accumulation and technology precipitation, Delixi has provided total solutions to servo system for many industries such as textile, printing, packaging, logistics, etc., with extremely high stability and accuracy. The industry application engineers can provide customers with high-quality technical services to ensure project implementation. Delixi could also provide custom schemes to satisfy customers' diverse needs.



Textile industry



Packaging industry



Printing Industry



Woodworking industry



Food Industry



Machine tool industry

Quilting and Embroidery Machine



The quilting and embroidery machine, which is also known as quilting and embroidery AIO, is a new industrial sewing equipment that integrates the quilting and embroidery function. It has integrated and optimized the quilting function of quilting machine and the embroidery function of computer embroidery machine. With wide range of application, it applies to the fields such as home textiles, clothes, bags and suitcases, embroidery craft works and crystal plate decoration. It can realize circular processing of shell fabrics, seamless splicing, high output, improve the processing efficiency and reduce the labor cost.

Cutting Machine



The cutting machine can continuously cut large number of non-metal coiled materials of the same specification through the cutting die. It applies to the industries such as upper of shoes, insole, football, volleyball, tennis, abrasive paper and medicine.

Auto winding machine of edge band



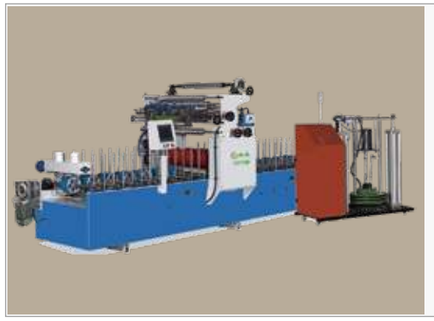
As the auxiliary machine for the production equipment of plastic edge band, the auto winding machine of edge band can collect and coil the produced edge bands based on the set length and transfer them to the next process. It mainly applies to the industry of woodworking, such as door sheet and furniture.

Dividing and cutting machine



The dividing and cutting machine can cut the coiled products (such as sticker, label and advertising paper) into the small coils for easy sales and storage. It is divided into number counting and meter counting function, supports correction, material supplementation and constant tension functions, to improve the coiling efficiency and quality greatly.

Covering Machine



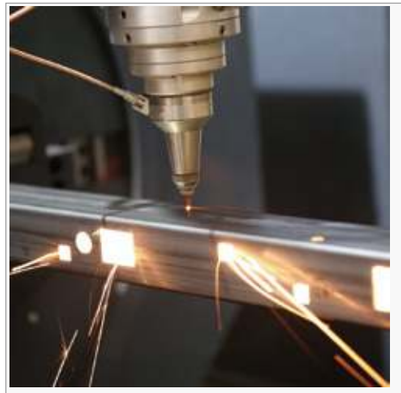
As a mechanical device designed for woodworking industry, the covering machine applies to the production of PVC, decorative varnished paper and solid wood sheets which are pasted on the surface of woods, aluminum plastic sectional material and foaming materials. As a substitution of traditional painting, it applies to surface pasting of door casing, skirting line, pinch plate, curtain rod, windowsill, aluminum alloy window and photo frame.

CNC Corner Seam Cleaning Machine



As a specific device for cleaning the 90° angle seam of PVC doors and windows, the intelligent corner seam cleaning machine can realize overall cleaning to the external surface of welded angles of sectional material, inclined plane of external angle, elliptic arc of external angle, weld joint of upper/lower plane, weld joint on inner plane of internal angle, slot of sealing rubber strip and weld joint of inner plane. It can store 100 angle cleaning procedures by material, enjoy the merits such as improved functions, easy operation, high speed, accuracy, efficiency and automation, making it a practical corner seam cleaning device for large and medium-sized enterprises of processing PVC doors and windows.

Laser pipe cutting machine





The working principle of a laser pipe cutting machine is to use a high-power density laser beam to irradiate the surface of the workpiece, and through the thermal effect of the laser beam, the local area of the workpiece is rapidly melted or vaporized. As the laser beam moves, the material on the workpiece is gradually melted or vaporized, forming a continuous cut, thus achieving the purpose of cutting.
The upper computer controls the driver by sending collector pulses, and accurately controls the forward axis, lateral axis, and rotation axis according to cutting requirements, achieving precise movement of the workpiece. The laser height adjuster is fixed on the vertical axis, and precise cutting of each section position is achieved through analog control.

Round bottle labeling machine



The vertical round bottle automatic labeling machine uses self-adhesive roll labeling paper, and the labeling process is completed by rolling. It is suitable for circular labeling of cylindrical objects such as glass bottles and plastic bottles. It can also be equipped with a coding machine or inkjet printer according to product needs, and can operate independently or be connected to a conveyor line.
Core working principle:
The product enters the bottle separation mechanism through the conveyor belt, and the bottle separation mechanism separates the products. When the sensor detects that the product has passed through, the control system will control the corresponding motor to send out the label and attach it to the position where the product is to be labeled. At the same time, the label is overlaid, and the labeling action of one label is completed.