

Product Selection Manual

Focus on customer experience and help customers succeed



Wenzhou AB technology Co., Ltd



ABOUT US

Our company adheres to the business philosophy of "People-Oriented, Shared Success," integrating responsibility with value creation. We are committed to becoming a leader in the automation industry and achieving excellence.making outstanding contributions to "intelligent manufacturing in China





**Yueqing A&B Electric Co., Ltd., Founded in 2005 with the website is: www. abelec. com, specializes in electrical products, with a core focus on export, distributing globally. In the company strategically expanded into industrial automation by establishing its subsidiary: **Wenzhou A&B Technologies Co., Ltd. The website is:abtechup.com.

A&B Technologies concentrates on the R&D and manufacturing of core industrial control components like **PLC controllers** and **servo drives**. **Leveraging switches, relays, and power supplies produced by our parent company, alongside the advantages of Yueqing's electrical industry cluster, we integrate local supply chain resources to establish an integrated industrial control ecosystem. Through rigorous OEM partnerships, we maintain stringent quality control while building our **proprietary brand "A&B".

We provide global clients with:

- * High-performance industrial control components
- * Customized automation solutions
- * Electrical control integration systems

Backed by a 50-member R&D team, 200+ production personnel, and an overseas service network, we guarantee technological leadership, lean manufacturing, and responsive global support.

Guided by our philosophy of "**Innovation-driven, Quality-focused, Customer-centric**", A&B is committed to becoming a trusted global provider of solutions and core components in industrial automation, driving the advancement of smart manufacturing.















Technical Strength&Application

With core expertise in motion control, industrial inspection, and fault diagnosis, we hold 100+ intellectual property rights. Our key products include:

- AC/DC Servo Drives
- Servo Motors
- PLC and HMI
- Industrial automation control products

All products are CE-certified and widely applied in

- Robotics/Manipulators
- Construction Machinery
- Printing & Packaging
- 3C Automation

R&D Team

Our multidisciplinary team collaborates with top universities (Hunan University, Central South University, Zhejiang University, etc.) to bridge industry-academia innovation. Expertise covers

- Smart Control
- Mechanical Engineering
- Computer Science
- Communication Engineering

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High quality guarantes

After strict standard testing such as EMC testing, environmental reliability testing, and routine testing, it leaves the factory



Servo Drives







Over View

The ABS series servo drive adopts interationally advanced hardware architecture and redundant design scheme

The key components are strictly screened and tested and the whole machine testing is strictly standardized. Each process adopts high standards, and the stability, reliability and control accuracy of the product are at the forefronto the industry. It has passed CE and other international safety certification, and has extensive compatibility. It is a high-performance motion control product developed by Aicortech specifically for the fields of robots/manipulatorspackaging machinery, and 3C nonstandard automation equipment. It has rich interfaces, supports multiple communication methods and position encoders, and can be matched with Aicortech series servo motors and mainstream servo motors in the market through simple settings. it has outstanding usability, strong universality, and can also meet the customized needs of special application scenarios.











Compatible

Easy To Use

Stability

General

Open and flexible

Universal compatibility, supporting multiple fieldbus communication protocols and encoders









Excellent performance

High precision and fast response, automatic identification and adjustment of parameters to achieve better configuration

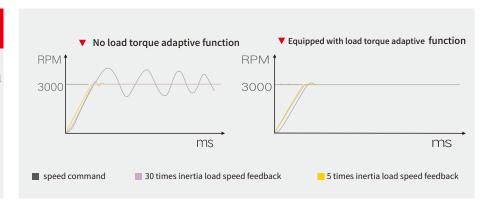




Load adaptive



Automatic identification of system parameters such as load inertia and damping, online adjustment of control parameters, and algorithms with strong adaptability, fast response, and high accuracy. The experiment shows that it still has good tracking characteristics at 30 times the inertia.



Shock absorption



The position control algorithm combining hysteresis and variable parameters can reduce end effector vibration and improve positioning accuracy, especially suitable for high inertia systems, which can effectively suppress vibration near the target position.

Safe torque



Optional Safe Torque Function (STO).

special aoftware



Equipped with dedicated upper computer software, it can set and regulate parameters on the PC end, and has online detection and analysis functions.



Self-diagnosis



Online status monitoring and fault diagnosis, built-in self repair and early health warning functions.





Economical, practical, easy to operate, stable and reliable performance

► Application scenarios

Widely used in equipment for packaging, printing, woodworking and other industries.



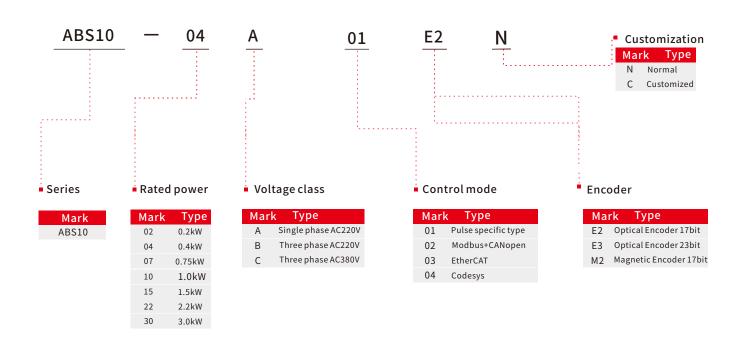




▶ Performance characteristics

- Supports multiple communication methods such as Modbus, EtherCAT, CANopen, etc.
- Economical, practical, easy to operate, stable and reliable in performance.
- The speed band width reaches 3kHz, which can meet the vast majority of application scenarios.
- Positioning time within 3.5ms, positioning accuracy \pm 1 pulse.
- The working temperature range is wide, which can reach -10 °C~+50 °C.
- Vibration and jitter suppression, automatic gain adjustment, and more stable operation.
- Load adaptive function, automatic recognition and adjustment of system parameters to achieve optimized configuration.





ABS10 Series

AC servo drive

AC servo drive models

	ABS10 series AC servo drive				
Model	power (kW)	output current (A)	maximum output current (A)	Size	Input power supplyM(V)
ABS10-02A*	0.2	1.6	5.8	SIZE-A	Single phase Ac220
ABS10-04A*	0.4	2.8	10.1	SIZE-A	Single phase Ac220
ABS10-07A*	0.75	5.5	16.9	SIZE-B	Single phase Ac220
ABS10-10A*	1.0	7.6	23.0	SIZE-B	Single phase Ac220
ABS10-15A*	1.5	11.6	32.0	SIZE-E	Single phase Ac220
ABS10-15B*	1.5	11.6	32.0	SIZE-E	Three phase Ac220
ABS10-15C*	1.5	5.4	14.0	SIZE-F	Three phase Ac380
ABS10-22C*	2.2	8.4	20.0	SIZE-F	Three phase Ac380
ABS10-30C*	3.0	11.9	29.75	SIZE-E	Three phase Ac380

Note: Control mode, encoder feedback type, etc. in the model are replaced with ".""

For more specific models, please refer to the model description and consult customer service.

▶ Specification parameter table

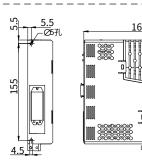
Power supply Control mode	Main circuit Loop Cooling method	Single phase AC220V \pm 10%; Three phase 220V \pm 10%		
	Loop	'		
	·	Busbar power supply		
Control mode	Cooling method			
Control mode		≤0.4kW: natural cooling; >0.4kW: forced air cooling		
		FOC		
Mode		I/O communication, Ether CAT communication, Modbus communication		
Braking resistor	r	SIZE-A/B type external; SIZE-Etype built-in (connected when capacity is insufficient)		
	Maximum input pulse frequency	Optocoupler input: 200KHz Differential input: 2MHz		
	Pulse command mode	Pulse+direction; CW pulse+CCW pulse, Phase A+Phase B		
Position control mode	Command control mode	External pulse control/bus communication control		
controllinode	Feedforward gain	Internal parameter setting		
	Torque limit	Internal parameter setting		
	Electronic gear ratio	N=1~32767, M=1~65535, N/M=0.02~5000		
	Command control mode	Bus communication control/analog quantity		
Speed	Torque limit	Internal parameter setting		
control mode	Speed control range	1~6000rpm		
Acceleration and deceleration methods		Linear acceleration and deceleration or S-shaped acceleration and deceleration		
Command control mode		Internal instructions/analog quantities		
Torque control mode	Speed limit	Internal parameter setting		
	Torque control accuracy	±3%		
	Encoder frequency	A-phase, B-phase, Z-phase: differential output		
	division pulse output	Frequency division pulse number: (16~32768) can be set arbitrarily		
Digital		Number of points:8(pulse train) Number of points:7(Bus series)		
Input/Output	Assignable input signal	Servo enable/forward drive disable/reverse drive disable/bias count reset/zero speed clamp/alarm reset/origin inpu		
		Near origin input/forward limit position/reverse limit position, etc		
	Assignable input signal	Number of points: 6 (pulse train) Number of points: 4 (Bus series)		
Assignable input signal		Alarm signal/positioning completed/speed reached/servo ready/zero speed detection/brake opening, etc		
Protection function		Overcurrent/overvoltage/undervoltage/overlo ad/overheating/encoder error/speed deviation/position deviation/limit, etc		
Auxiliary function	ons	JOG mode/alarm recording/origin setting, etc		
Communication	interface	Modbus-RTU/CANopen/EtherCAT		
Encoder feedbac	ck type	Absolute value formula: 17bit/23bit (single or multiple cycles); Magnetic/Optical Encoding		

Project		Specification parameters		
Protection grade		lp20		
	Usage temperature	-10 °C~+50°c (When the ambient temperature is between 40 'C~50 'c, the average load rate should not exceed 80%)		
environmental condition	Humidity	Below 90% RH (no freezing or condensation allowed)		
	Vibration &Impact	Vibration below 4.9m/s²; Impact below 19.6m/s²		
	Altitude	The highest usage altitude is 2000m. At an altitude of over 1000m, for every 100m increase, the power decreases by 1.5%		
	Others	No static interference, strong magnetic field, strong electric field, no corrosive gases, flammable gases, oil stains, dust, etc		

► External dimensions

SIZE-A(Bus type) Power range:0.1kW~0.4kW



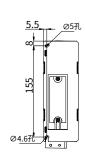


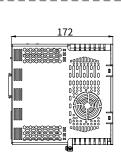


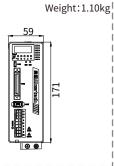
Weight: 0.82kg

SIZE-B(mpulsive) Power range:0.75kW~1kW



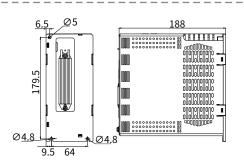


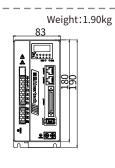




SIZE-E Power range: 1.5kW~3kW

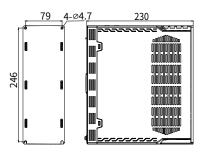


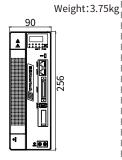




Power range:4kW~7.5kW









Economical, practical, easy to operate, stable and reliable performance

► Application scenarios

Widely used in equipment for packaging, printing, woodworking and other industries.



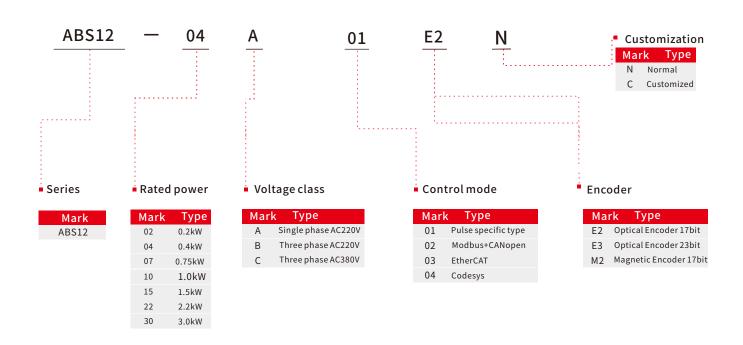




▶ Performance characteristics

- Supports multiple communication methods such as Modbus, EtherCAT, CANopen, etc.
- Power range: 0.1 kW 3 kW..
- The speed band width reaches 3kHz, which can meet the vast majority of application scenarios.
- Positioning time within 3.5ms, positioning accuracy \pm 1 pulse.
- The working temperature range is wide, which can reach -10 °C~+50 °C.
- Vibration and jitter suppression, automatic gain adjustment, and more stable operation.
- Load adaptive function, automatic recognition and adjustment of system parameters to achieve optimized configuration.





ABS12 Series

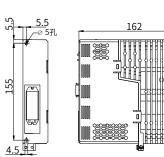
AC servo drive

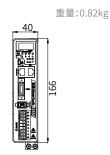
注:型号中控制方式、编码器反馈类型等以"*"代替, 更多具体型号可参考型号说明以及咨询客服。

	ABS12 series AC servo drive				
型号	Size	Power (kW)	Rated Current Output (A)	Maximum Current Output (A)	Input Current(V)
ATS12-02A*	SIZE-A	0.2	1.6	5.8	Single phase Ac220
ATS12-04A*	SIZE-A	0.4	2.8	10.1	Single phase AC220
ATS12-07A*	SIZE-B	0.75	5.5	16.9	Single phase AC220
ATS12-10A*	SIZE-B	1.0	7.6	23.0	Single phase AC220
ATS12-15A*	SIZE-B	1.5	11.6	32.0	Single phase AC220
ATS12-15B*	SIZE-E	1.5	11.6	32.0	Three phase AC220
ATS12-20B*	SIZE-F	2.0	18.0	45	Three phase AC220
ATS12-25B*	SIZE-F	2.5	22.0	55	Three phase AC220
ATS12-20C*	SIZE-E	2.0	8.4	20.0	Three phase Ac380
ATS12-30C*	SIZE-E	3.0	11.9	29.75	Three phase AC380

► SIZE-A(Bus type) Power range: 0.1kW~0.4kW



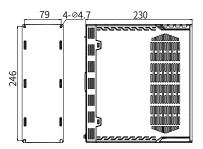


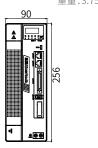


重量:1.10kg SIZE-B(mpulsive) Power range: 0.75kW~1kW 155 Ø4.6₹l 重量:1.90kg SIZE-E 188 Manager and the second Power range: 1.5kW~3kW 9.5 64 重量:3.75kg SIZE-F

Power range:4kW~7.5kW







ABS12 Series

AC servo drive

Р	roject	Specification parameters			
		Model SIZE-A/B: Single-phase AC 220V ±10%, 50/60Hz			
		Model SIZE-E: Voltage selectable based on motor compatibility, options include:			
		Single phase AC220V±10%, 50/60Hz;			
		Three phase AC220V±10%, 50/60Hz;			
	Primary circuit	Three phase AC380V±10%, 50/60Hz;			
	Trimary circuit	Note: AC220V and AC380V are not interchangeable!			
		Model SIZE-F: The voltage level can be selected as follows based on the compatible motor:			
电源		Three phase AC220V±10%, 50/60Hz; Three phase AC380V±10%, 50/60Hz;			
		Note: AC220V and AC380V are not interchangeable!			
		Model SIZE-A/B/E: Powered via busbar			
		Model SIZE-F: Classified according to main circuit power supply voltage as follows:			
		Single phase AC220V±10%, 50/60Hz;			
	Control circuit	Single phase AC380V±10%, 50/60Hz;			
		Note: AC220V and AC380V are not interchangeable!			
		Standard Version: ≤ 0.4kW: Natural cooling			
	Cooling method	Field-Oriented Control (FOC)			
Control method		I/OCommunication、EtherCATCommunication、ModbusCommunication			
Operating Mode		Model SIZE-E/F: Built-in braking resistor (external resistor can be connected when capacity is insufficient)			
Braking Resisto					
	Maximuminputpulsefrequency	Optocoupler input: 200KHz Differential input: 2MHz			
	Pulse command mode	Pulse+direction; CW pulse + CCW pulse, Phase A+Phase B			
Position		External pulse control/bus communi cation control			
controlmode	Feedforward gain	Internal parameter setting			
	Torque limit	Internal parameter setting			
	Electronic gear ratio	N=1~32767, M=1~65535, N/M=0.02~5000			
		Bus communication control/analog quantity			
Speed	Feedforward gain	Internal parameter setting			
controlmod	Torque limit	1~6000rpm			
	Electronic gear ratio	Linear acceleration and deceleration or S-shaped acceleration and deceleration			
Torque		Internal instructions/analog quantities			
controlmode	Speed limit	Internal parameter setting			
	Torque control accuracy				
	Encoder frequency	A-phase, B-phase, Z-phase: differential output			
	division pulse output	Frequency division pulse number:(16~32768)can be set arbitrarily			
Digital		Number of points:8(pulsetrain)Numberof points:7(Bus series)			
Input/Output	Assignable input signal	Servo enable/forward drivedisable/reversedrivedisable/biascountreset/zerospeedclamp/alarmreset/origininput			
mpac, output		Nearorigininput/forwardlimitposition/reverselimitposition,etc			
	Assignable input signal	Numberofpoints:6(pulsetrain)Numberofpoints:4(Busseries)			
	7.551g.habite input 51g.hat	Alarm signal/positioning completed/speed reached/servoready/zero speed detection/brake opening,etc			
Protection function		Overcurrent/overvoltage/undervoltage/overload/overheating/encodererror/speeddeviation/positiondeviation/limit,etc			
Auxiliary functions		JOG mode/alarm recording/origin setting, etc			
Communication interface		Modbus-RTU/EtherCAT			
Encoder feedback type		Absolute value fo rmula: 17bit/23bit(single or multiple cycles); Magnetic/Optical Encoding			
Protection grade		IP20			
	Usage temperature	-10°C~+50°c(When the ambient temperature is between 40°C~50°C, the average load rate should not exceed80%)			
	Humidity	Below 90% RH(no freezing or condensation allowed)			
environmental	Vibration &Impact	Vibration below4.9m/s²;Impact below 19.6m/s²			
condition	Altitude	The highest usage altitude is 2000m.At an altitude of over1000m,forevery100m increase, the power decreases by 1.5%			
	Others	No static interference, strong magnetic field, strong electric field, no corrosive gases, flammable gases, oil stains, dust, etc			



Enhance adaptability to wide temperature environments and have wider applications

► Application scenarios

Widely used in industries such as healthcare, textiles, new energy, and service robots.



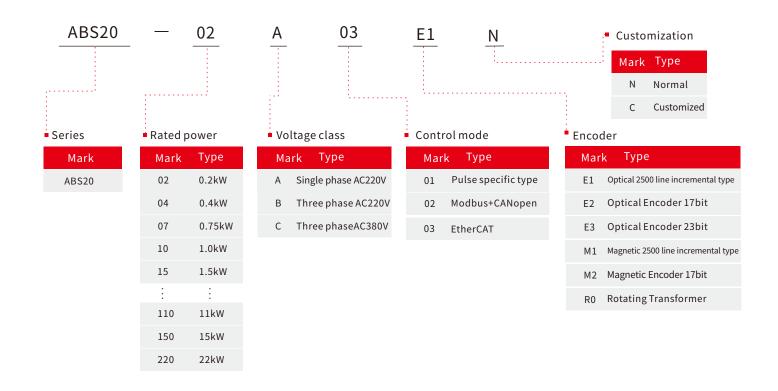




► Performance characteristics

- Supports mulriple bus communication methods such as Modbus, CANopen, EtherCAT, etc.
- Supports 2500 line incremental, 17/23 bit absolute encoder, and rotary transformer.
- More redundancy and protection settings can be applied to extreme working conditions.
- The speed band width reaches 3kHz, which can meet the application requirements of ultra fast response frequency.
- Positioning time within 2ms, positioning accuracy ± 1 pulse.
- The working temperature range is wider, reaching-20 °C~+55°C.
- Vibration and jitter suppression, wider automatic gain adjustment range, and more stable operation.
- Load adaptive function, automatic identification and adjustment of parameters to achieve more optimized configuration.





ABS20 Series

AC servo drive

► AC servo drive models

	ABS20 series AC servo drive					
Model	power (kW)	output current (A)	maximum output current (A)	Size	Input power supply(V)	
ABS20-02*	0.2	1.6	5.0	SIZE-A	AC220	
ABS20-04*	0.4	2.6	7.9	SIZE-A	AC220	
ABS20-07*	0.75	5.1	15.5	SIZE-A	AC220	
ABS20-10*	1.0	7.0	21.0	SIZE-C	AC220	
ABS20-15*	1.5	8.3	25.1	SIZE-C	AC220	
ABS20-22*	2.2	7.5	18.8	SIZE-E	AC380	
ABS20-30*	3.0	10.0	24.0	SIZE-E	AC380	
ABS20-55*	5.5	16.0	38.0	SIZE-E	AC380	
ABS20-75*	7.5	25.0	60.0	SIZE-E	AC380	
ABS20-110*	11.0	25.5	60.5	SIZE-G	AC380	
ABS20-150*	15.0	35	82.5	SIZE-G	AC380	
ABS20-220*	22.0	50	115	SIZE-G	AC380	

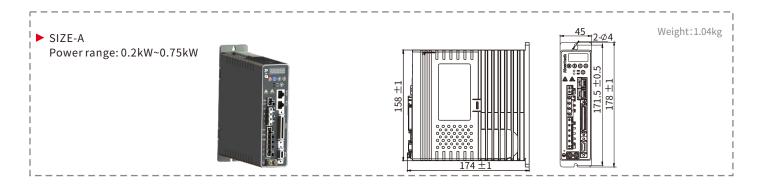
Note: Voltage, control mode, encoder feedback type, etc. in the model are replaced with "*". For more specific models, please refer to the model description, selection table, and consult customer service

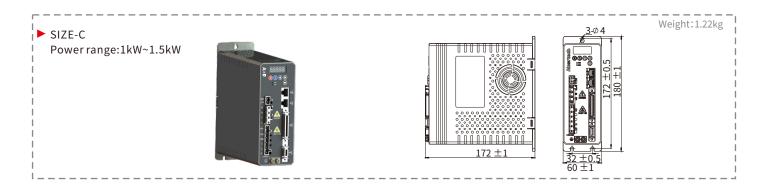
Specification parameter table

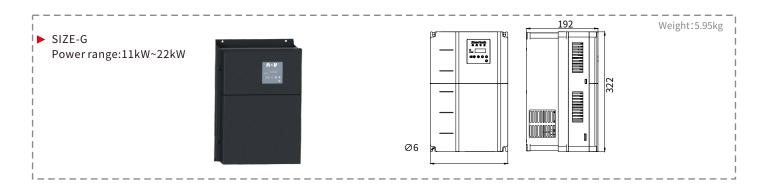
	Project	Specification parameters			
	Main circuit	Single phase AC220V \pm 10%; Three phase 220V \pm 10%			
Powersupply	Main Circuit	Three phase 380V \pm 10%			
rower supply	Loop	Busbar power supply			
	Cooling method	≤750kW: natural cooling; >750kW: forced air cooling			
Control mode		FOC			
Mode		I/O communication			
Braking resisto	r	Built-in (connected when capacity is insufficient)			
	Maximum input pulse frequency	Optocoupler input: 500KHz Differential input: 4MHz			
	Pulse command mode	Pulse+direction; CW pulse+CCW pulse, Phase A+Phase B			
Position control mode	Command control mode	External pulse control/bus communication control			
controtiniode	Feedforward gain	Internal parameter setting			
	Torque limit	Internal parameter setting			
	Electronic gear ratio	N=1~32767, M=1~65535, N/M=0.02~5000			
	Command control mode	Bus communication control/analog quantity			
Speed	Torque limit	ternal parameter setting			
control mode	Speed control range	1~6000rpm			
Acceleration and deceleration methods		Linear acceleration and deceleration or S-shaped acceleration and deceleration			
Command control mode		Internal instructions			
Torque control mode	Speed limit	Internal parameter setting			
controtmode	Torque control accuracy	±2%			
	Encoder frequency	A-phase, B-phase, Z-phase: differential output			
	division pulse output	Frequency division pulse number: (16~32768) can be set arbitrarily			
Digital		Number of points: 6			
Input/Output	Assignable input signal	Servo enable/forward drive disable/reverse drive disable/bias count reset/zero speed clamp/alarm reset/origin input			
-		Near origin input/forward limit position/reverse limit position, etc			
	Assignable input signal	Number of points: 6			
	Assignable input signal	Alarm signal/positioning completed/speed reached/servo ready/zero speed detection/brake opening, etc			
Protection function		Overcurrent/overvoltage/undervoltage/overload/overheating/encoder error/speed deviation/position deviation/limit,e			
Auxiliary function	ons	JOG mode/alarm recording/origin setting, etc			
Communication	n interface	Modbus-RTU / CANopen / EtherCAT			
Encoder feedba	ck type	Absolute value formula: 17bit/23bit (single or multiple turns)/rotary transformer/user specified			

Project		Specification parameters		
Protection grade		lp20		
	Usage temperature	-20 °C~+55 °C (When the ambient temperature is between 40 °C~50 °C, the average load rate should not exceed 80%)		
environmental	Humidity	Below 90% RH (no freezing or condensation allowed)		
condition	Vibration &Impact	Vibration below 4.9m/s ² ; Impact below 19.6m/s ²		
	Altitude	The highest usage altitude is 2000m. At an altitude of over 1000m, for every 100m increase, the power decreases by 1.5%		
	Others	No static interference, strong magnetic field, strong electric field, no corrosive gases, flammable gases, oil stains, dust, etc		

■ External dimensions







 ${\bf Note:} For the appearance of {\tt SIZE-E} \ and {\tt SIZE-F} \ models \ with power ranging from$ 2kW to 7.5kW, please refer to the dimension drawings of the ABS10 series.

ABS60 Series

DC servo drive

Master core algorithms, be open and flexible, and support customization

► Performance characteristics

- Fully digital circuit products.
- Covering a wide range of power.
- Covering a wide voltage input range.
- Support the networked operation of multiple servo drives
- Enhance environment adaptability, up to -20 °C~+55 °C
- Structural optimization design, compact layout.
- We can provide customized services according to user needs to meet special occasions and more complex functional requirements.
- Integrate multiple control strategies and provide versatile upper computer software

► Application scenarios

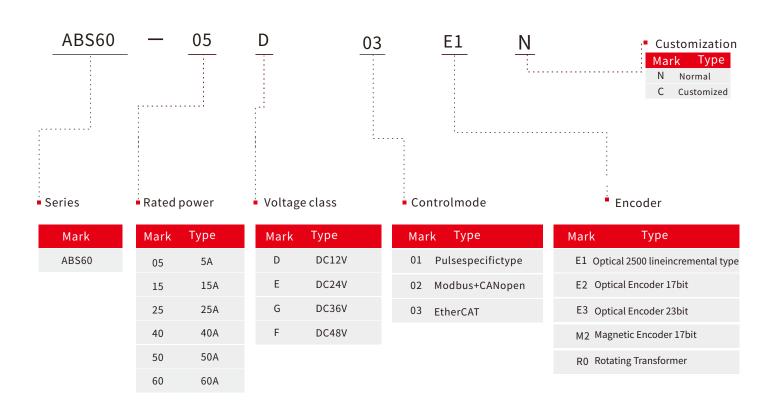
Widely used in industries such as warehousing and logistics, security gates, and construction vehicles.











ABS60 Series

DC servo drive

DC servo drive models

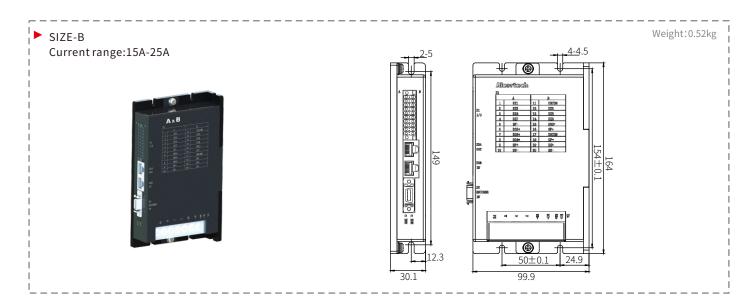
	ABS60 series DC servo drive					
Model	Input voltage (V)	output current (A)	maximum output current(A)	Size	Communication method	
ABS60-05*	12V/24V/36V/48V	5	15	SIZE-A	485/CAN/ETHERCAT	
ABS60-15*	24V/36V/48V	15	45	SIZE-B	485/CAN/ETHERCAT	
ABS60-25*	24V/36V/48V	25	60	SIZE-B	485/CAN/ETHERCAT	
ABS60-40*	24V/36V/48V	40	100	SIZE-C	485/CAN/ETHERCAT	
ABS60-50*	24V/36V/48V	50	120	SIZE-C	485/CAN/ETHERCAT	
ABS60-50*	24V/36V/48V	50	120	SIZE-D	485/CAN/ETHERCAT	

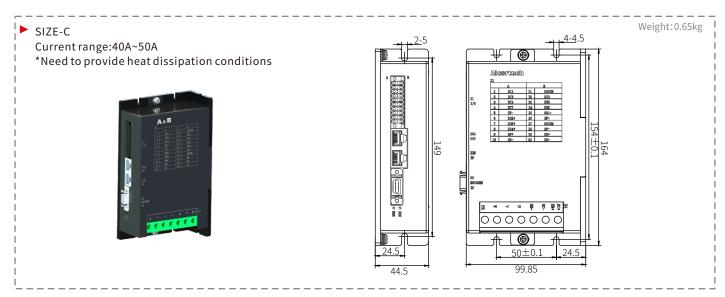
Note: Voltage, control mode, encoder feedback type, etc. in the model are replaced with "*".
For more specific models, please refer to the model description, selection table, and consult customer service.

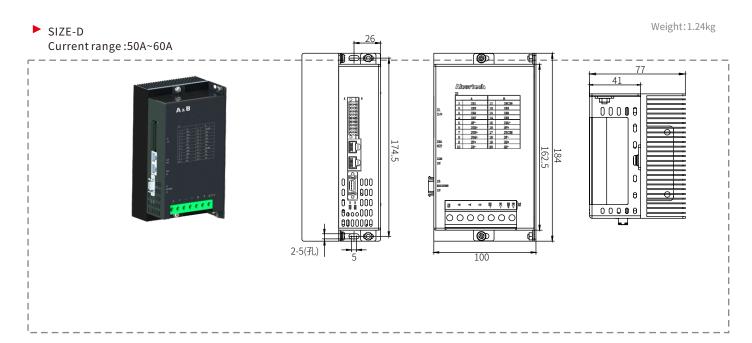
Specification parameter table

	Project	Specification param eters				
Input power supply voltage		12V / 24V / 36V / 48V				
Output current		5A/15A/25A/40A/50A/60A				
Control mode		FOC				
Mode		I/O communication				
Braking resistor		External				
	Maximum input pulse frequency	Optocoupler input:200KHz Differential input:4MHz				
	Pulse command mode	Pulse+direction; CW pulse+CCW pulse; Phase A+P hase B				
Position	Command control mode	External pulse control/bus communication control				
controlmode	Feedforward gain	Internal parameter setting				
	Torque limit	Internal parameter setting				
	Electronic gear ratio	N=1~32767, M=1~65535, N/M=0.02~5000				
	Command control mode	Bus communication control/analog quantity				
Speed	Torque limit	Internal parameter setting				
controlmode	Speed control range	1~3000 rpm				
	Acceleration and deceleration methods	Linear acceleration and deceleration or S-shaped acceleration and deceleration				
	Command control mode	Internal instructions				
Torque	Speed limit	Internal parameter setting				
controlmode	Torque control accuracy	±3%				
		Number of points:7				
	Assignable input signal	Servo enable/forward drive disable/reverse drive disable/bias count reset/zero speed clamp/alarm reset/origin input				
Digital Input/Output		forward limit position/reverselimit position, etc				
input/ output		Number of points: 4				
	Assignable output signal	Alarm signal/positioning completed/speed reached/servo ready/zero speed detection/brake opening, etc				
Protection funct	tion	Overcurrent / overvoltage / undervoltage / overload / overheating / encoder error / speed deviation / position deviation / limit, etc				
Auxiliary function	ons	JOG mode / alarm recording / origin setting, etc				
Communication	ninterface	Modbus-RTU / CANopen / EtherCAT				
		Absolute value formula: 17bit / 23bit (single or multiple turns)				
F d f d b	al. 4	Incremental: 2500 lines				
Encoder feedba	ск туре	Rotary transformer				
		User specified				
Protection grade		lp20				
-	Usage temperature	-20°C~+55°C (When the ambient temperature is between 40°C~50°C, the average load rate should not exceed 80%)				
	Humidity	Below 90% RH (no freezing or condensation allowed)				
environmental condition	Vibration & Impact	Vibration below 4.9m/s²; Impact below 19.6m/s²				
Condition	Altitude	The highest usage altitude is 2000m. At an altitude of over 1000m, for every 100m increase, the power decreases by 1.5%				
		No static interference, strong magnetic field, strong electric field, no corrosive gases, flammable gases, oil stains, dust, etc				

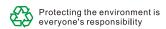
► External dimensions







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