

A&B[®]



ABS60 Model Description

ABS60	—	05	D	03	E1	N	■ Customization
							Mark Type
							N Normal
							C Customized
■ Series	■ Rated power	■ Voltage class	■ Controlmode	■ Encoder			
Mark	Mark Type	Mark Type	Mark Type	Mark Type	Mark Type		
ABS60	05 5A	D DC12V	01 Pulespecifictype	E1 Optical 2500 lineincremental type			
	15 15A	E DC24V	02 Modbus+CANopen	E2 Optical Encoder 17bit			
	25 25A	G DC36V	03 EtherCAT	E3 Optical Encoder 23bit			
	40 40A	F DC48V		M2 Magnetic Encoder 17bit			
	50 50A			R0 Rotating Transformer			
	60 60A						

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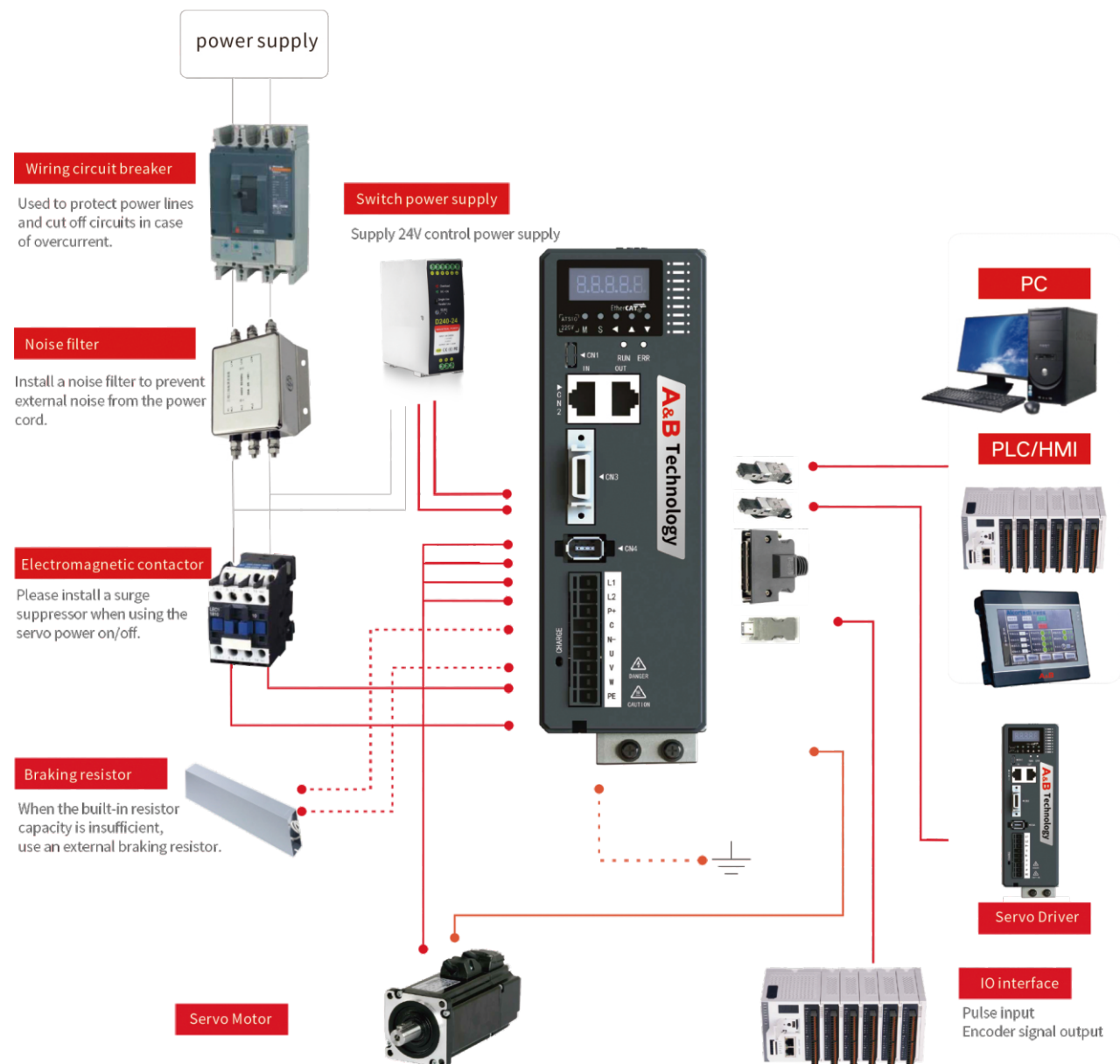
Universal compatibility, supporting multiple field bus communication protocols and encoders



EtherCAT

CANopen

CODESYS



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.

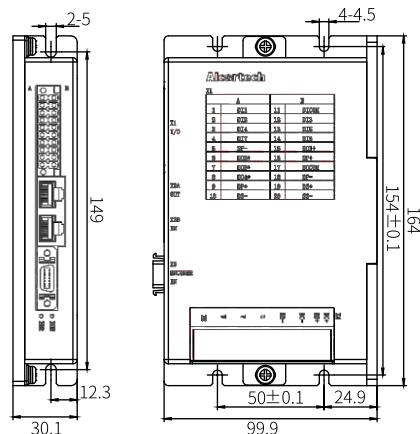
Specification parameter table

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
Position controlmode	Maximum input pulse frequency	Optocoupler input:200KHz Differential input:4MHz
	Pulse command mode	Pulse+direction; CW pulse+CCW pulse; Phase A+P hase B
	Command control mode	External pulse control/bus communication control
	Feedforward gain	Internal parameter setting
	Torque limit	Internal parameter setting
	Electronic gear ratio	N=1~32767, M=1~65535, N/M=0.02~5000
Speed controlmode	Command control mode	Bus communication control/analog quantity
	Torque limit	Internal parameter setting
	Speed control range	1~3000 rpm
	Acceleration and deceleration methods	Linear acceleration and deceleration or S-shaped acceleration and deceleration
Torque controlmode	Command control mode	Internal instructions
	Speed limit	Internal parameter setting
	Torque control accuracy	± 3%
Digital Input/Output	Assignable input signal	Number of points:7
		Servo enable/forward drive disable/reverse drive disable/bias count reset/zero speed clamp/alarm reset/origin input
		forward limit position/reverselimit position, etc
	Assignable output signal	Number of points: 4
		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, etc
Auxiliary functions		JOG mode / alarm recording / origin setting, etc
Communication interface		Modbus-RTU / CANopen / EtherCAT
Encoder feedback type		Absolute value formula: 17bit / 23bit (single or multiple turns)
		Incremental: 2500 lines
		Rotary transformer
		User specified
Protection grade		Ip20
environmental condition	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)
	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

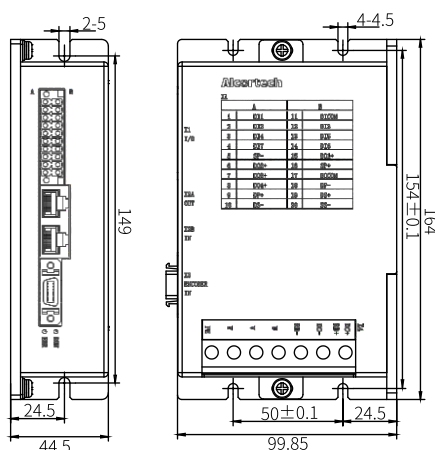
- SIZE-B
Current range:15A-25A

Weight:0.52kg



- SIZE-C
Current range:40A~50A
*Need to provide heat dissipation conditions

Weight:0.65kg



- SIZE-D
Current range:50A~60A

Weight:1.24kg

