

AKRIBIS SERVO MOTOR CATALOG



where precision matters



Akribis is a Latinized Greek word that means “Precision”. On the Akribis logo, the letter “a” is formed by a line and a circle, representing linear and rotary motions. These are supported by a tetrahedron structure, the same structure as the diamond crystal which has many exceptional physical properties.

The logo signifies that Akribis Systems’ sound engineering expertise forms the cornerstone of the company, and this enables us to provide customers with precise, direct drive motion control solutions.

Akribis Systems Pte. Ltd. was founded in 2004. We design and manufacture direct drive motors, stages and precision systems that are used in equipment for manufacturing, inspection and testing. Akribis Systems supports a wide range of industries including semiconductor, solar, flat panel, hard disk, LED, printed circuit board, printing, photonics and biomedical manufacturing.

From the beginning, the company has been focusing on innovation and development of new technologies and solutions in motion control, with more than 134 patents applied. Backed by a very strong and committed engineering team, the company continues to develop custom motors and systems for demanding applications.

We have manufacturing facilities in Singapore; Shanghai, Nantong and Dongguan (China); Selangor (Malaysia); and Siheung (Korea). Our sales network includes our sales offices in USA, Germany, South Korea, India, Thailand, Israel and Malaysia, and is reinforced by our comprehensive distribution channels in Asia, Europe and North America.



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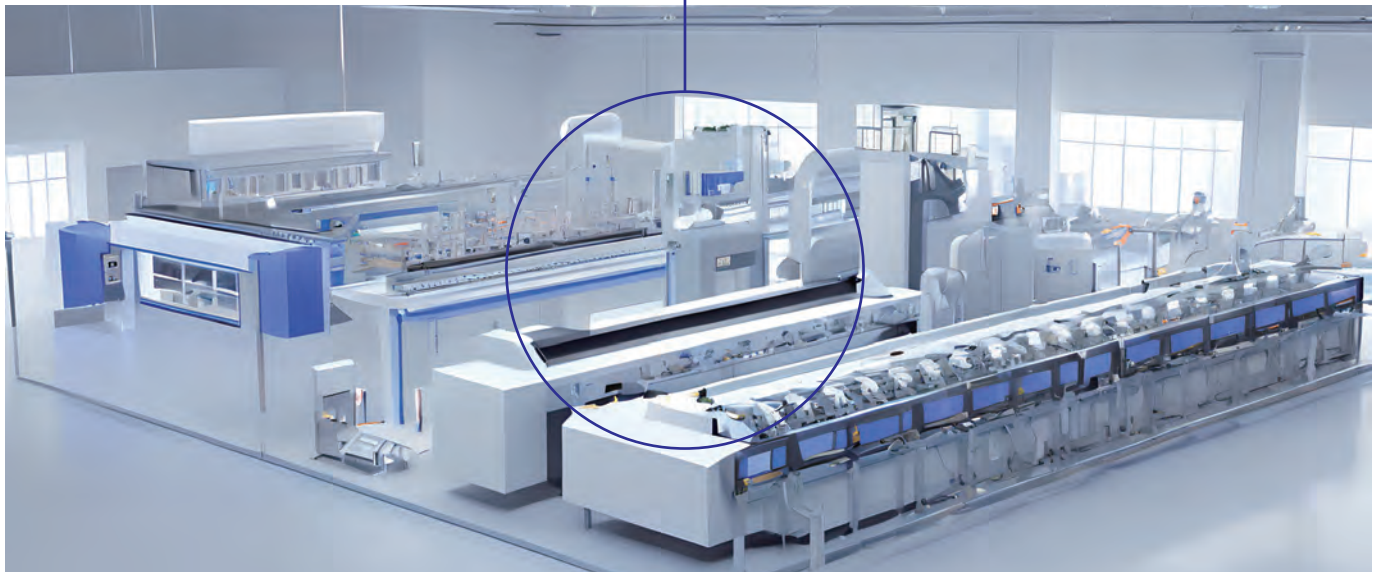
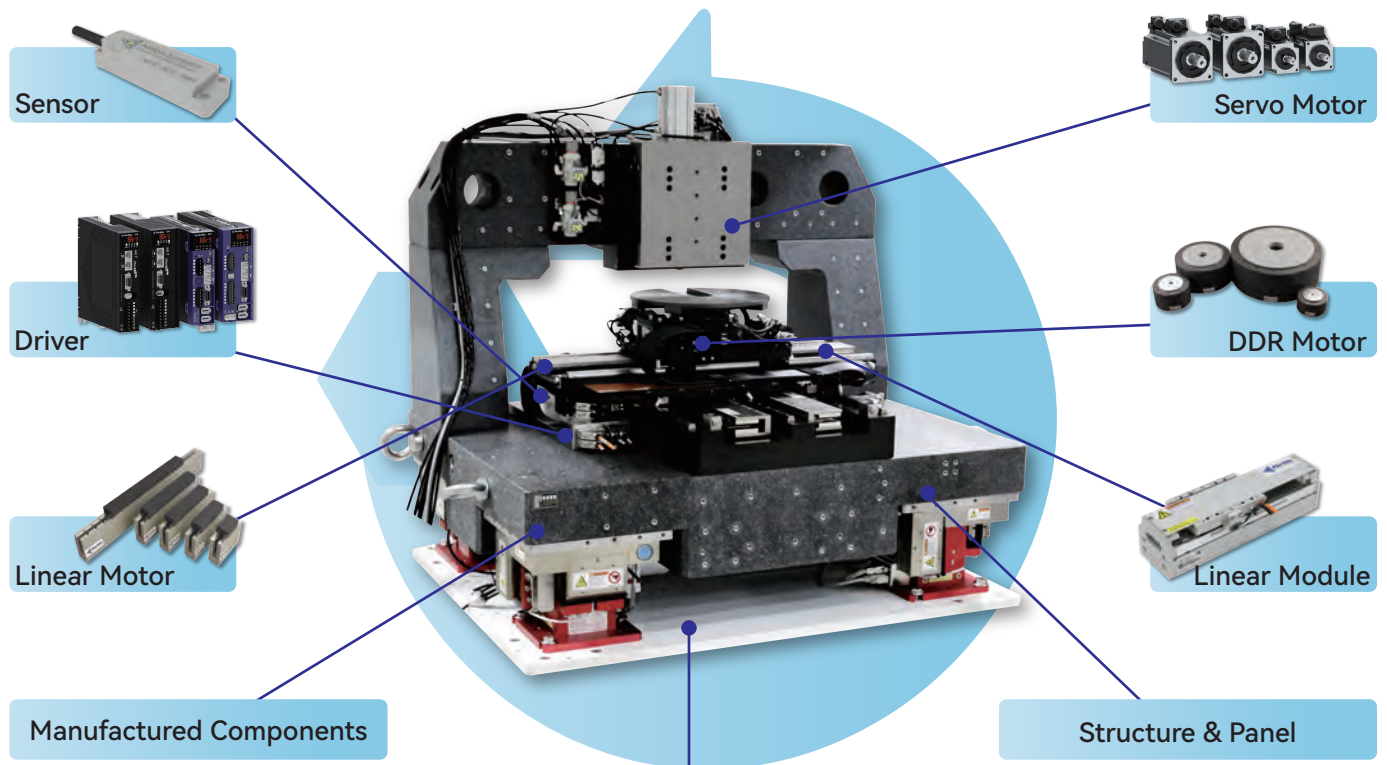
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Product Lineup

One-Stop Service

Akribis offers comprehensive motion control solutions, encompassing a diverse range of products from high-precision direct-drive motors (serving as precision axes) to high-performance servo motors (serving as key and general axes). Each product plays a vital role within the equipment, ensuring operational efficiency and system stability. Whether in precision positioning, drive control, or load-bearing, spaces needed provide customers with one-stop, customized services to meet the requirements of various complex applications.



Flexible Selection

Category	AC Servo Driver	DC Servo Driver
High-performance	 AGD156 series	 AGD101 series
Standard	 AR6 series	 SASD series
Economy	 AR4 series	 ESASD series
Special application	 Customization servo motor	 AGD301 integrated multi-axis drive and control
		 SASD integrated multi-axis

■ Akribis AC Servo Driver

1. AR4 Economy AC Servo Driver: An Ultra Cost-effective Option!

Featuring one-touch auto-tuning, high-frequency response, and vibration suppression, it effortlessly manages various standard applications, enabling rapid commissioning and flexible compatibility.

2. AR6 Standard AC Servo Driver: Precise Control with Stability and Reliability!

Incorporating full closed-loop control, gantry synchronization, and the STO safety function, and supporting multiple bus protocols, it serves as a cornerstone for high-precision industrial control.

3. Agito High-Performance AC Servo Driver: Integrated Drive and Control Delivering Peak Performance!

Embedded independent program system with a 16kHz three-loop refresh rate, surpassing precision limits and enabling the most precise and complex motion control in equipment.

■ Akribis DC Servo Driver

1. ESASD Economical Low-Voltage DC Servo Driver: Ultra-compact and Highly Energy-efficient!

Featuring a compact size of 56×53×32mm and 99% energy efficiency, with open-loop force control, full closed-loop, and STO safety function, providing a cost-effective solution for space-constrained applications.

2. SASD Standard Low-Voltage DC Servo Driver: Military-grade Reliability with Micron-level Precision!

Certified to medical-grade EMC standards and operable across a full temperature range from -55°C to +50°C, combined with 10mA torque fine-tuning and multi-axis integrated design to meet the stringent requirements of high-precision industrial environments.

3. Agito High-Performance Low-Voltage DC Servo Driver: Integrated Three-Axis Drive Control, Revolutionary Performance!

Built-in multithreaded scripting system (8 channels with configurable priority), 16kHz triple-loop refresh, and 3D error compensation, specifically designed to establish a new benchmark for complex motion control in advanced multi-axis systems.

Product Features

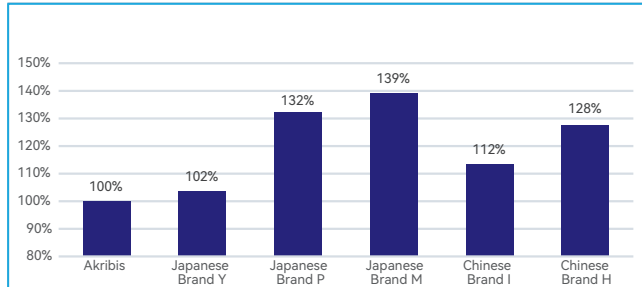
Servo Motor Product Features

High Efficiency · Low Temperature Rising · High Reliability

· Flexible Configuration · Easy to Use

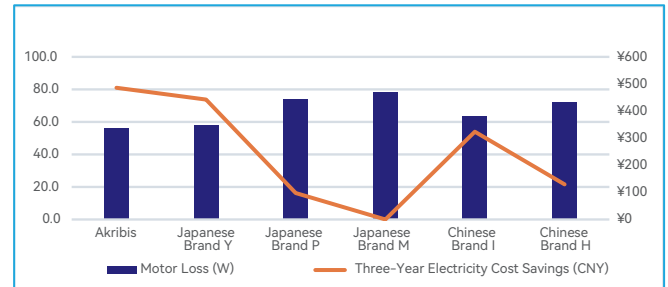


■ 400W Servo Motor Temperature Rising Comparison^①



① Measured in Akribis Servo Motor Laboratory

■ 400W Servo Motor Energy Efficiency Analysis and Electricity Cost Savings Comparison^①

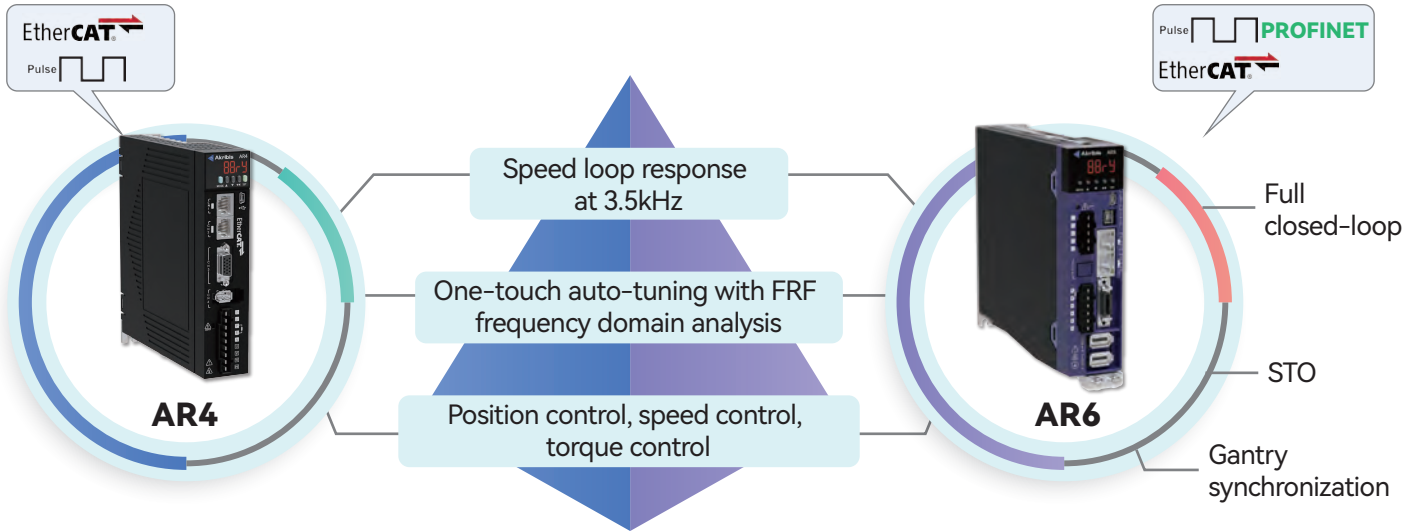


- ▶ **Magnetic Circuit Optimization Design:** Unique topology structure reduces temperature rising by 20K, improves energy efficiency, and lowers energy consumption by 30% compared to similar competitors.
- ▶ **IP67 Protection Rating:** The motor offers excellent dust and water resistance, is robust and durable, and is suitable for various harsh environments.
- ▶ **Flexible Configuration:** Supports 17/23-bit multi-turn encoders, provides multiple oil seal, shaft type, and brake combinations, perfectly adapting to diverse industrial applications.
- ▶ **Electronic Nameplate + Absolute Encoder:** Plug and play, eliminating complex parameter settings, enabling effortless motor commutation and current loop tuning.

Servo Driver Product Features

Simple and easy to use · Vibration suppression ·

High response speed · Flexible configuration · Safe and reliable



- ▶ **One-touch Auto-tuning Technology:** Automatically matches parameters, enhancing debugging efficiency by over 50%, and significantly shortening the development cycle.
- ▶ **FRF Frequency Domain Analysis:** Accurately identifies resonance frequencies, optimizing mechanical debugging and reducing time costs.
- ▶ **Ultra-fast Response Speed Control:** The ARM+FPGA control architecture achieves a 3.5kHz speed loop response rate, delivering industry-leading dynamic response performance.
- ▶ **Support for Multiple Communication Protocols:** ^① Pulse, EtherCAT, and PROFINET communication methods flexibly accommodate diverse requirements.
- ▶ **Full Closed-loop and Gantry Control Support:** ^② The AR6 series offers full closed-loop and gantry control capabilities, meeting the application requirements of high-performance servo control.
- ▶ **STO Safe Torque Off:** ^② 0.1s emergency stop response, ensuring safe equipment operation and preventing sudden risks.

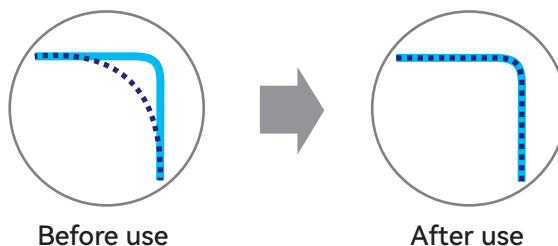
① Only the AR6 series supports PROFINET communication.

② The AR6 supports full closed-loop, gantry control, and STO safe torque off functions.

Enhanced Control Accuracy

■ Trajectory Model Tracking

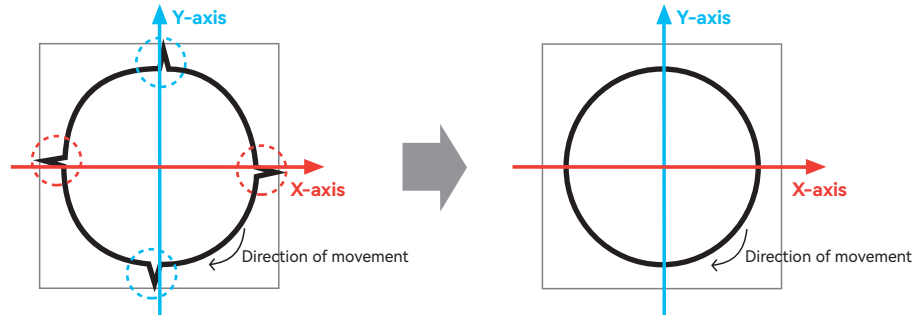
The entire series is equipped with high-precision control algorithms, including bias-free control, zero-phase compensation, and iterative learning functions, achieving minimal trajectory error and dynamic high responsiveness. Particularly suitable for applications demanding extremely high precision, such as CNC and laser processing.



Product Features

■ Friction Compensation

Friction compensation function standard across the entire series. Effectively eliminates quadrant protrusion caused by friction and mechanical nonlinearities, significantly enhancing trajectory accuracy in systems such as X/Y slides, ensuring smoother and more precise arc motion.

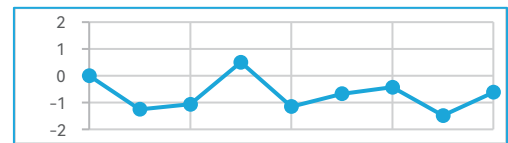
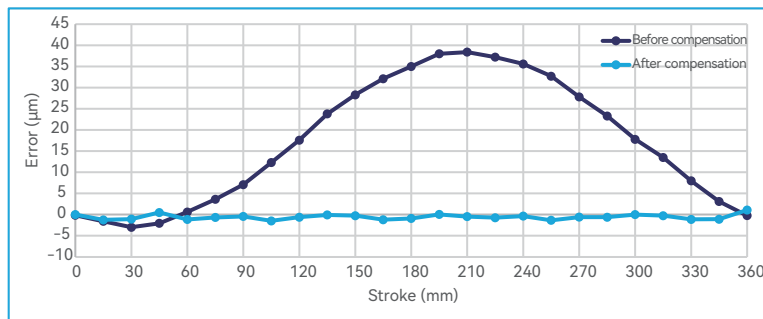


Insufficient friction compensation

Correct friction compensation

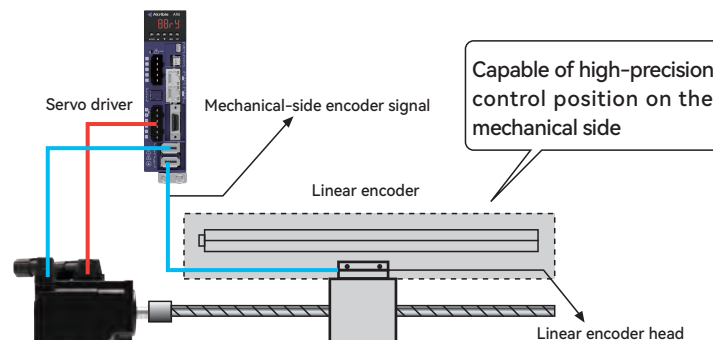
■ Accuracy Compensation

The entire series is standard equipped with multiple compensation mechanisms, including built-in ball screw pitch, synchronous belt backlash, and encoder error compensation. Supports data import from multiple brands of laser interferometers, with up to 2000 configurable compensation points, enabling more flexible and precise accuracy tuning.



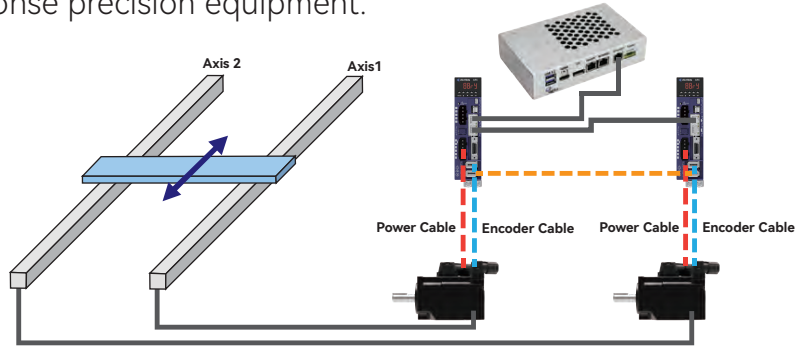
■ Full Closed-loop Control

The AR6 series servo driver supports full closed-loop control functionality. By utilizing external position feedback (such as a linear scale) to close the loop on motor position, it effectively eliminates position errors caused by mechanical backlash, screw reverse clearance, and other factors, significantly enhancing system positioning accuracy and repeatability, thereby meeting the stringent requirements of high-precision positioning applications.



■ Gantry Synchronous Control

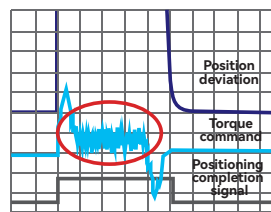
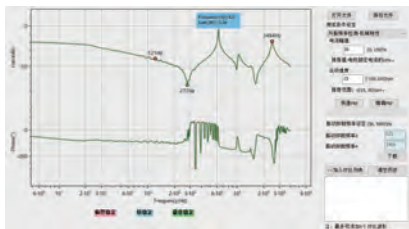
The AR6 series supports rigid or flexible gantry control, achieving dual-axis synchronous operation through 15M high-speed real-time communication between axes, combined with three-loop control data exchange and cross-decoupling algorithms. Unique position synchronization decoupling compensation technology continuously monitors and corrects mechanical errors between dual drives, enabling high-speed, high-precision gantry structure control, suitable for large-span, high-dynamic-response precision equipment.



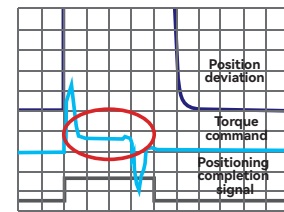
Enhanced Vibration Suppression

■ Mid-to-high Frequency Vibration Suppression

The AR4 and AR6 series servo systems feature frequency domain analysis capabilities, supporting three modes: speed closed-loop, speed open-loop, and mechanical characteristic modes, facilitating easy identification of system resonance points. Up to six vibration suppression notch filters from 50 to 5000 Hz, effectively addressing various servo applications.



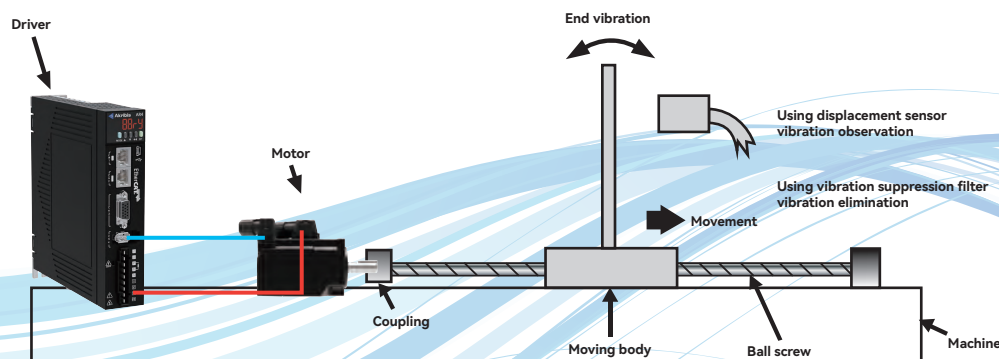
Before use



After use

■ Low-frequency Vibration Suppression

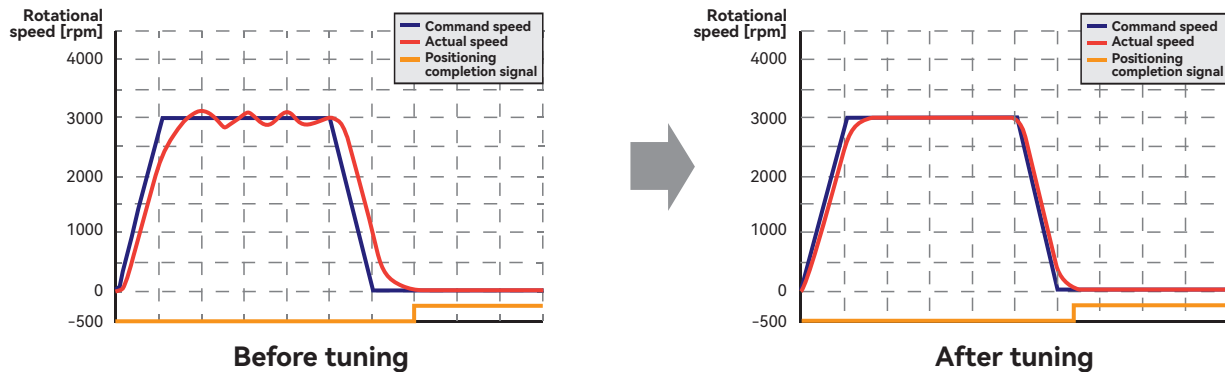
To address end-effector vibrations and overall device sway, the AR4 and AR6 series servo systems incorporate input shaping algorithms and two position notch filters that eliminate low-frequency vibrations below 100 Hz, reducing settling time and enhancing capacity of production.



Simplified Tuning and Debugging

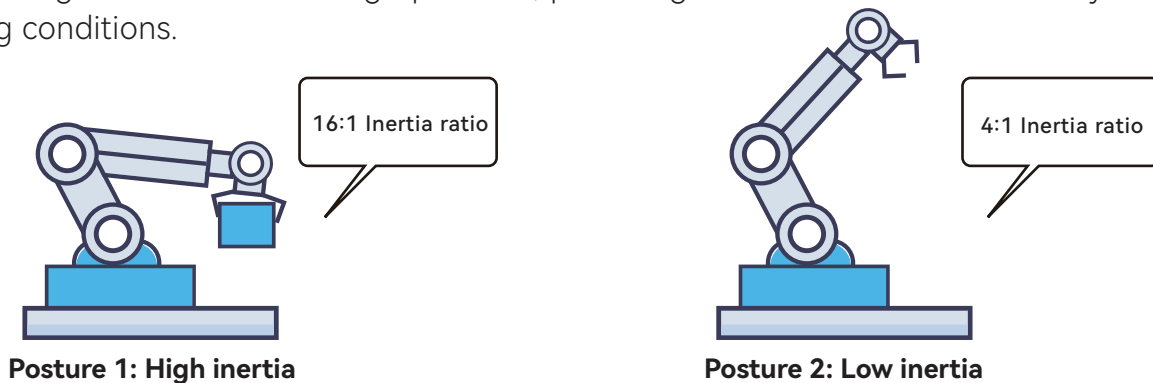
■ One-touch Auto-tuning

The AR4 and AR6 series servos feature two automatic loop parameter tuning functions: 'single parameter' and 'auto-tuning.' Based on the driver gain parameter auto-tuning algorithm, they can automatically identify the load inertia ratio and set gain and other parameters automatically, significantly reducing servo commissioning time.



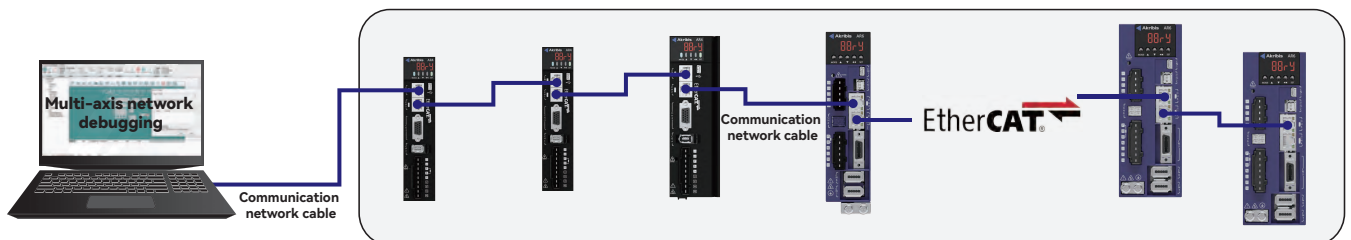
■ Adaptive Control Function

The AR4 and AR6 series servos incorporate adaptive resonance suppression and online load identification functions, which identify and adjust the system's resonance frequency and inertia ratio changes in real time during operation, providing robustness of the control system across varying conditions.



■ Multi-axis Network Debugging

Supports EtherCAT bus FOE functionality and enables network debugging of multiple servos via host computer software. Supports multi-axis parameter modification, parameter saving, inter-axis parameter comparison and parameter copying.



Supports multi-axis
parameter modification

Supports multi-axis
parameter saving

Supports inter-axis
parameter comparison

Supports inter-axis
parameter copying

The AR4 and AR6 high-response drivers are perfectly matched with the A3 and A5 motors, suitable for applications with diverse requirements in precision, response speed, vibration suppression and cost.

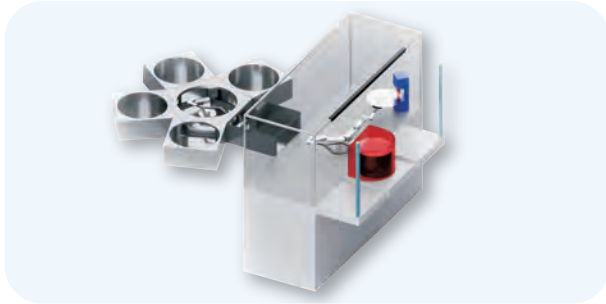


Industry Applications



Semiconductor

■ PVD, CVD



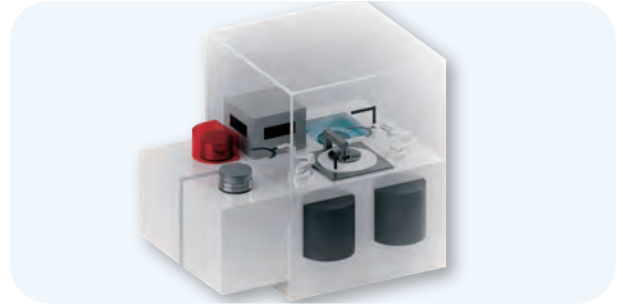
Thin Film Deposition: Suitable for low-speed operation with speed fluctuation rates between 0.2% and 2%.

■ Dicing Saw



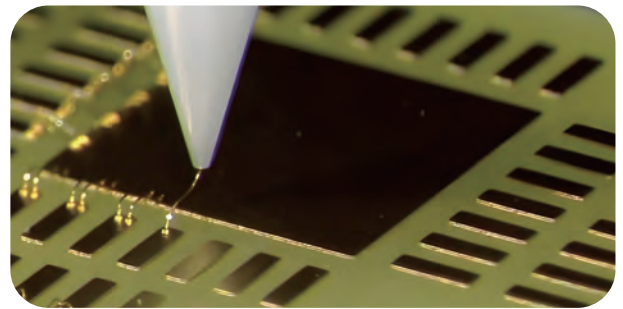
Wafer Dicing: Suitable for low-speed operation with vibration suppression and minimal speed fluctuation.

■ CMP



CMP Chemical Mechanical Polishing: Precise grinding pressure control within $\pm 5\%$ and torque output fluctuation within $\pm 1\%$, ensuring polishing uniformity and effectively suppressing mechanical vibration.

■ Bonding Machine

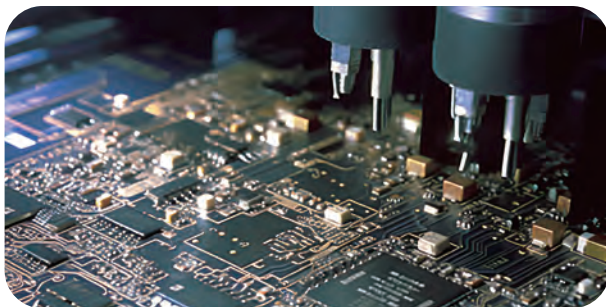


Bonding Equipment: Suitable for precise pressure control within $\pm 5\%$ and torque fluctuation within $\pm 1\%$.



Electronics

■ Dispensing Machine



Suitable for applications requiring minimal speed fluctuation, micron-level position compensation, and friction compensation.

■ Inspection Equipment



Suitable for precise positioning and flying shot applications.



Machine Tools

■ Laser Processing



Suitable for trajectory tracking and friction compensation, with minimal speed and torque fluctuations.

■ Five-axis Machining



Suitable for high-speed tool changes with micron-level precision control.



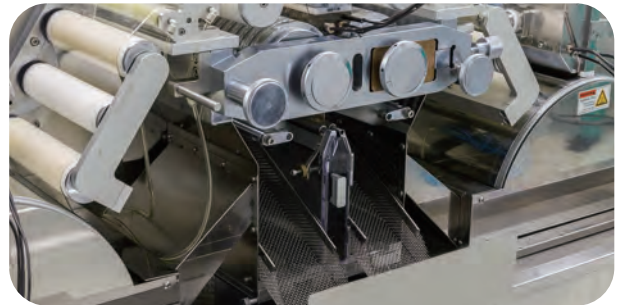
Lithium & Solar Energy

■ Lamination Machine



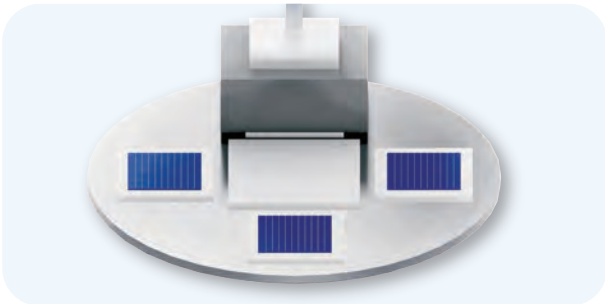
Suitable for high responsiveness and low cost.

■ Coating Machine



Suitable for coating precision control.

■ Screen Printing



Suitable for micron-level high-precision control.

Naming Rules

Servo Motor

ASV 40-A3-H-005-A-0-K

Motor Name:

Akribis Servo

Shaft Type:

K/T

Flange Size:

40 / 60 / 80 / 130 / 180

Brake & Oil Seal:

0 / 1 / 2 / 3

Motor Series:

A3 / A5

Input Voltage:

A / C / D

Inertia Type:

L / H / U

Rated Output:

005 / 010 / 020 / 040 / 075 / 100 /
150 / 200 / 300 / 400 / 500 / 750

- ① 40 = 40×40mm; 60 = 60×60mm; 80 = 80×80mm; 130 = 130×130mm(coming soon); 180 = 180×180mm(coming soon)
- ② A3 = A3 series 17-bit magnetic encoder; A5 = A5 series 23-bit optical encoder
- ③ L = Low inertia; H = High inertia; U = Ultra-high inertia
- ④ 005 = 50W; 010 = 100W; 020 = 200W; 040 = 400W; 075 = 750W; 100 = 1kW(coming soon); 150 = 1.5kW(coming soon); 200 = 2kW(coming soon); 300 = 3kW(coming soon); 400 = 4kW(coming soon); 500 = 5kW(coming soon); 750 = 7.5kW(coming soon)
- ⑤ A = AC 200V~240V; C = AC 380V~440V; D = DC 24V~60V
- ⑥ 0 = Blank; 1 = Oil seal; 2 = Brake; 3 = Oil seal & brake
- ⑦ K = Keyway & thread; T = Others

Servo Driver

AR4-E-040-A

Product Series Number:

AR4 Series

AC Input Voltage:

A / C

Instruction Type:

E / P

Rated Power:

020 / 040 / 075 / 100 / 150 / 200 /
300 / 500 / 750

- ① E = EtherCAT; P = Pulse
- ② 020 = 50 / 100 / 200W; 040 = 400W; 075 = 750W; 100 = 1kW(coming soon); 150 = 1.5kW(coming soon); 200 = 2kW(coming soon); 300 = 3kW(coming soon); 500 = 4 / 5kW(coming soon); 750 = 7.5kW(coming soon)
- ③ A = Single-phase 220V (50W~1kW) or single-phase / three-phase 220V (1.5kW~2kW) optional; C = Three-phase 400V (1.5kW~7.5kW)

AR6-E-040-A-C

Product Series Number:

AR6 Series

Optional Features:

C / G

Instruction Type:

E / P / F

AC Input Voltage:

A / C

Rated Power:

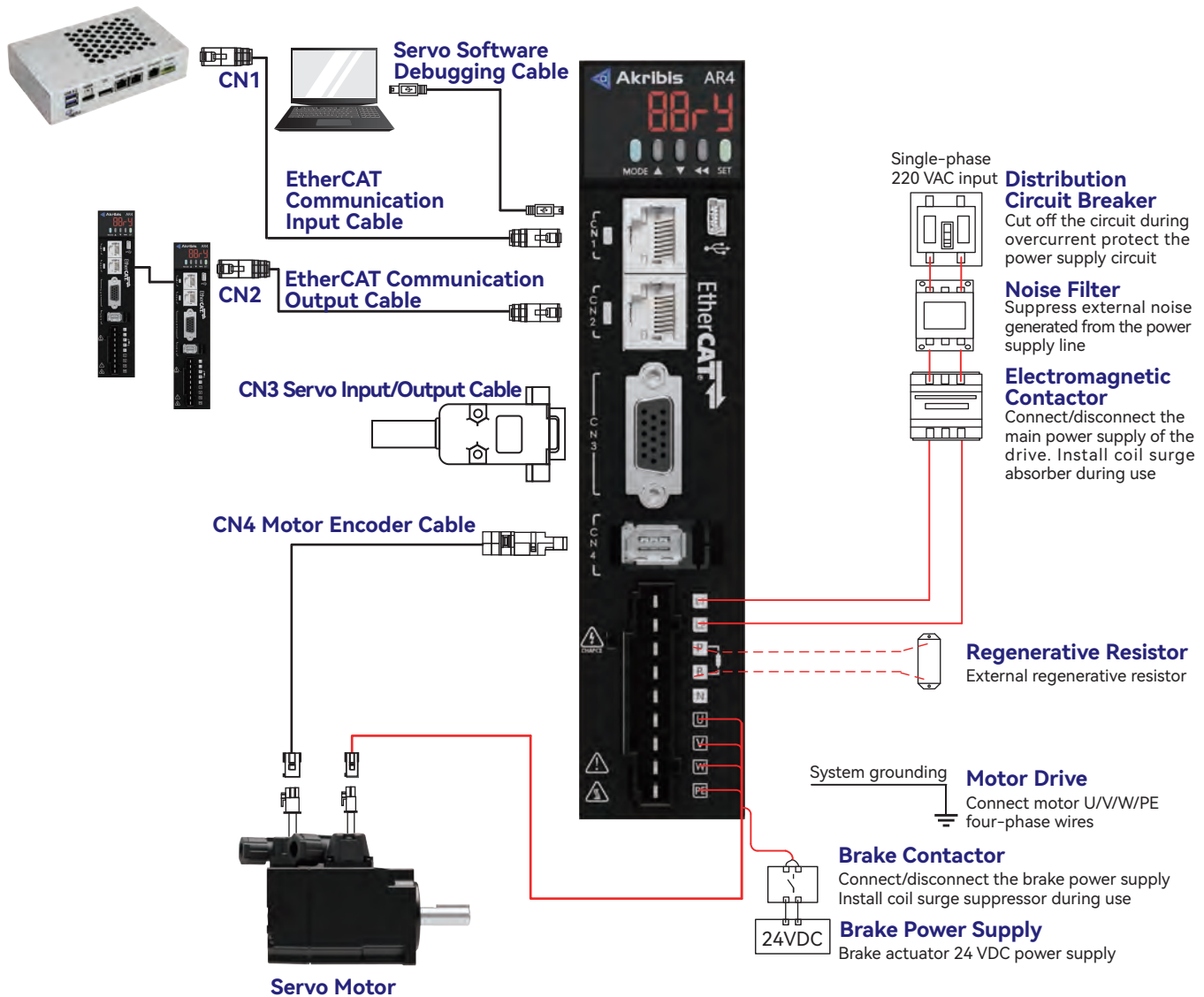
020 / 040 / 075 / 100 / 150 / 200 /
300 / 500 / 750

- ① E = EtherCAT; P = Pulse; F = PROFINET
- ② 020 = 50 / 100 / 200W; 040 = 400W; 075 = 750W; 100 = 1kW(coming soon); 150 = 1.5kW(coming soon); 200 = 2kW(coming soon); 300 = 3kW(coming soon); 500 = 4 / 5kW(coming soon); 750 = 7.5kW(coming soon)
- ③ A = Single-phase 220V (50W~1kW) or single-phase / three-phase 220V (1.5kW~2kW) optional; C = Three-phase 400V (1.5kW~7.5kW)
- ④ C = Full closed-loop; G = Gantry

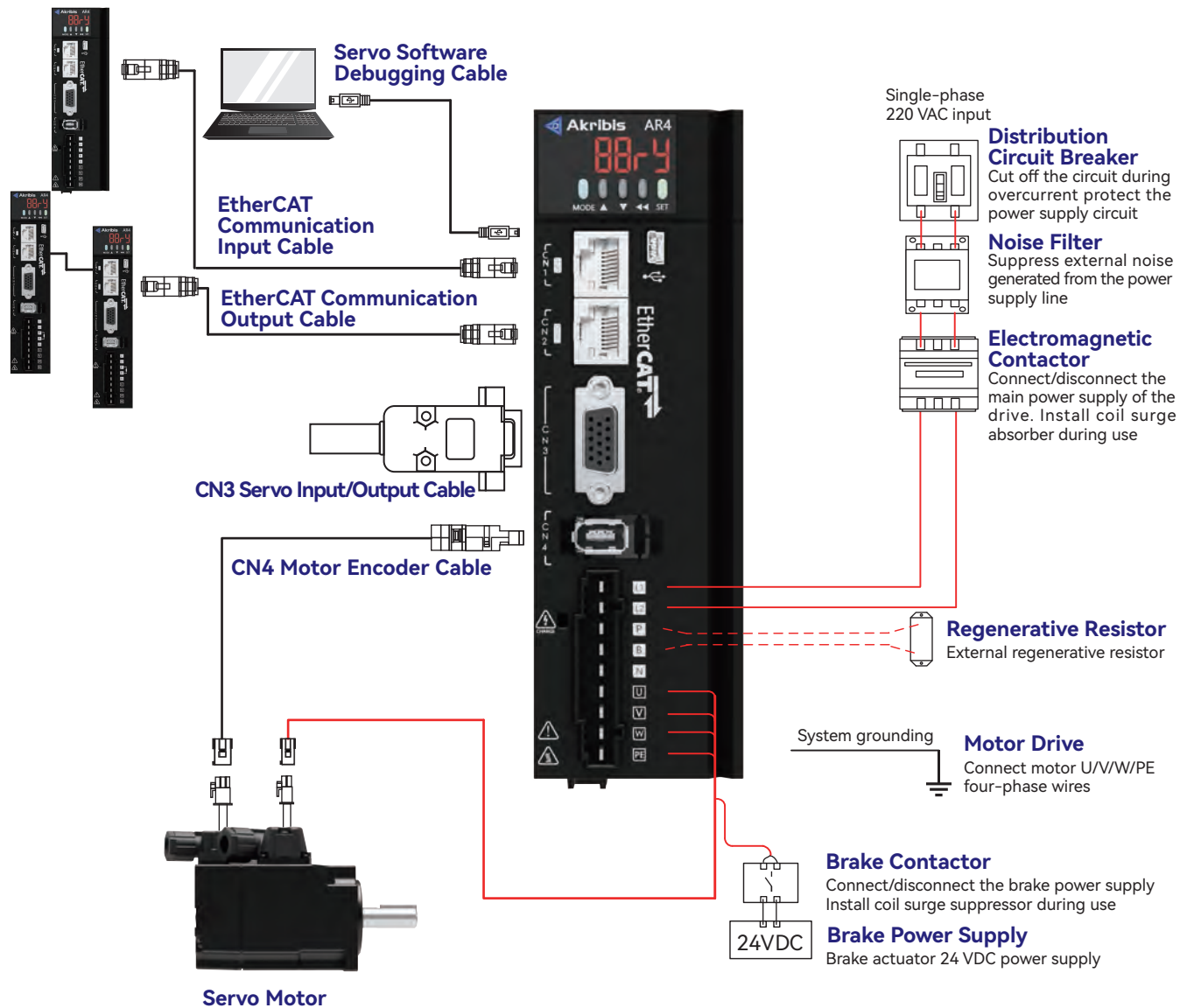
Servo Motor				Servo Driver		
Power	Brake	A3 Series 17-bit Motor Model	A5 Series 23-bit Motor Model	Instruction Type	AR4 Series Driver	AR6 Series Driver
50W	Without Brake	ASV40-A3-H-005-A-1-K	ASV40-A5-H-005-A-1-K	EtherCAT	AR4-E-020-A	AR6-E-020-A-C
	With Brake	ASV40-A3-H-005-A-3-K	ASV40-A5-H-005-A-3-K	Pulse	AR4-P-020-A	AR6-P-020-A-C
				ProfiNET	-	AR6-F-020-A-C
100W	Without Brake	ASV40-A3-H-010-A-1-K	ASV40-A5-H-010-A-1-K	EtherCAT	AR4-E-020-A	AR6-E-020-A-C
	With Brake	ASV40-A3-H-010-A-3-K	ASV40-A5-H-010-A-3-K	Pulse	AR4-P-020-A	AR6-P-020-A-C
				ProfiNET	-	AR6-F-020-A-C
200W	Without Brake	ASV60-A3-H-020-A-1-K	ASV60-A5-H-020-A-1-K	EtherCAT	AR4-E-020-A	AR6-E-020-A-C
	With Brake	ASV60-A3-H-020-A-3-K	ASV60-A5-H-020-A-3-K	Pulse	AR4-P-020-A	AR6-P-020-A-C
				ProfiNET	-	AR6-F-020-A-C
400W	Without Brake	ASV60-A3-H-040-A-1-K	ASV60-A5-H-040-A-1-K	EtherCAT	AR4-E-040-A	AR6-E-040-A-C
	With Brake	ASV60-A3-H-040-A-3-K	ASV60-A5-H-040-A-3-K	Pulse	AR4-P-040-A	AR6-P-040-A-C
				ProfiNET	-	AR6-F-040-A-C
750W	Without Brake	ASV80-A3-H-075-A-1-K	ASV80-A5-H-075-A-1-K	EtherCAT	AR4-E-075-A	AR6-E-075-A-C
	With Brake	ASV80-A3-H-075-A-3-K	ASV80-A5-H-075-A-3-K	Pulse	AR4-P-075-A	AR6-P-075-A-C
				ProfiNET	-	AR6-F-075-A-C
1KW	Without Brake	ASV130-A3-H-100-A-1-K	ASV130-A5-H-100-A-1-K	EtherCAT	AR4-E-100-A	AR6-E-100-A-C
	With Brake	ASV130-A3-H-100-A-3-K	ASV130-A5-H-100-A-3-K	Pulse	AR4-P-100-A	AR6-P-100-A-C
	Without Brake	ASV130-A3-U-100-A-1-K	ASV130-A5-U-100-A-1-K			
	With Brake	ASV130-A3-U-100-A-3-K	ASV130-A5-U-100-A-3-K	ProfiNET	-	AR6-F-100-A-C
1.5KW	Without Brake	ASV130-A3-H-150-A-1-K	ASV130-A5-H-150-A-1-K	EtherCAT	AR4-E-150-A	AR6-E-150-A-C
	With Brake	ASV130-A3-H-150-A-3-K	ASV130-A5-H-150-A-3-K	Pulse	AR4-P-150-A	AR6-P-150-A-C
	Without Brake	ASV130-A3-U-150-A-1-K	ASV130-A5-U-150-A-1-K			
	With Brake	ASV130-A3-U-150-A-3-K	ASV130-A5-U-150-A-3-K	ProfiNET	-	AR6-F-150-A-C
2.0KW	Without Brake	ASV130-A3-H-200-A-1-K	ASV130-A5-H-200-A-1-K	EtherCAT	AR4-E-200-A	AR6-E-200-A-C
	With Brake	ASV130-A3-H-200-A-3-K	ASV130-A5-H-200-A-3-K	Pulse	AR4-P-200-A	AR6-P-200-A-C
	Without Brake	ASV130-A3-U-200-A-1-K	ASV130-A5-U-200-A-1-K			
	With Brake	ASV130-A3-U-200-A-3-K	ASV130-A5-U-200-A-3-K	ProfiNET	-	AR6-F-200-A-C

Servo Wiring Diagram

AR4 EtherCAT Type Size A Wiring Diagram

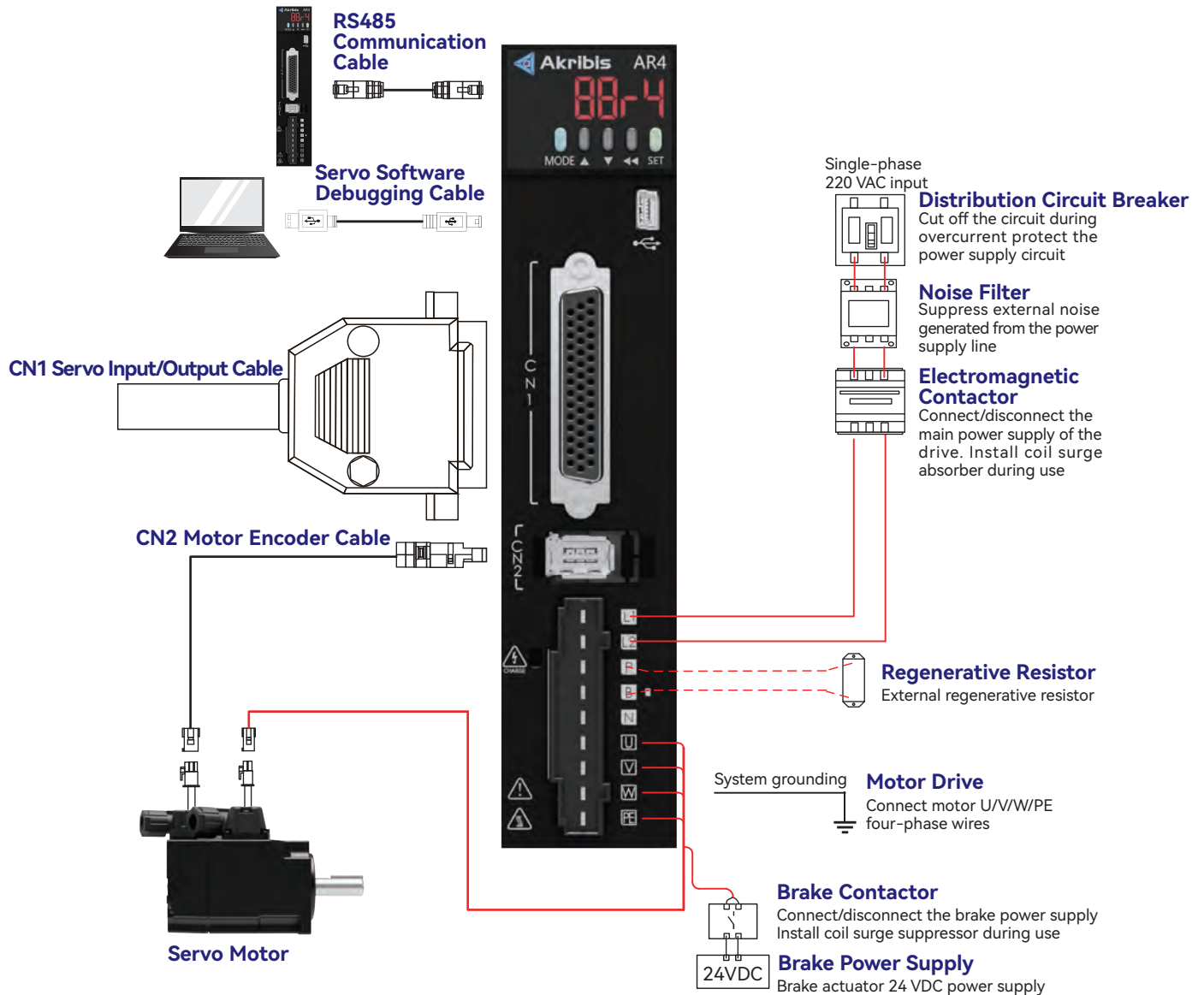


AR4 EtherCAT Type Size B Wiring Diagram

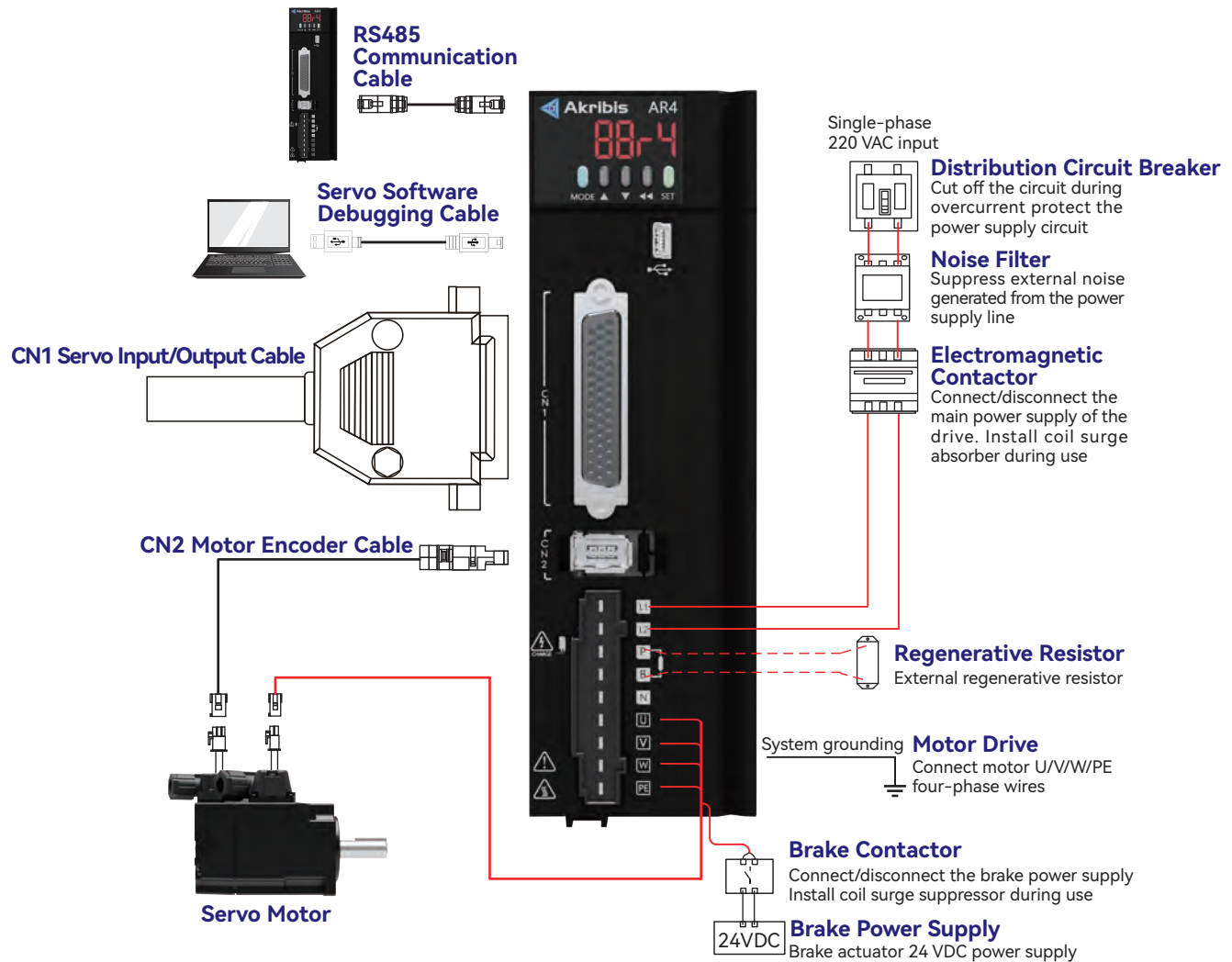


Servo Wiring Diagram

AR4 Pulse Type Size A Wiring Diagram



AR4 Pulse Type Size B Wiring Diagram



Servo Wiring Diagram

■ EtherCAT Type



	Pin Number	Signal Name
MINI USB	1	VBUS
	2	D-
	3	D+
	4	-
	5	GND

	CN1 (IN)		CN2 (OUT)	
	Pin Number	Signal Name	Pin Number	Signal Name
EtherCAT Communication Terminal	1	TX+	1	TX+
	2	TX-	2	TX-
	3	RX+	3	RX+
	4	-	4	-
	5	-	5	-
	6	RX-	6	RX-
	7	-	7	-
	8	-	8	-

CN3	Pin Number	Signal Name	Pin Number	Signal Name
IO Connector DB15	1	DO1+	9	DI2
	2	DO2-	10	DI1
	3	DO2+	11	DI5
	4	DO3-	12	-
	5	DO3+	13	COM+
	6	DO1-	14	COM-
	7	DI4	15	+24V
	8	DI3		

CN4	Pin Number	Signal Name
Encoder Connector 1394-6P	1	5V
	2	GND
	3	-
	4	-
	5	SD+
	6	SD-

Markings for Power Terminals	Name of The Terminal
L1、L2	Main circuit power input terminal
P、B、N	Regeneration function
U、V、W、PE	Servo motor connection terminal

■ Pulse Type



	CN3 (IN)		CN4 (OUT)	
	Pin Number	Signal Name	Pin Number	Signal Name
RS485 Communication Terminal	4	RS485+	4	RS485+
	5	RS485-	5	RS485-
	8	GND	8	GND

	Pin Number	Signal Name
MINI USB	1	VBUS
	2	D-
	3	D+
	4	-
	5	GND

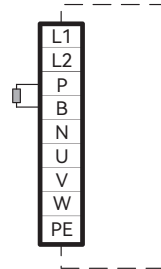
CN1	Pin Number	Signal Name	Pin Number	Signal Name	Pin Number	Signal Name
IO Connector DB44	1	DO4+	16	GND	31	DI7
	2	DO3-	17	+24V	32	DI6
	3	DO3+	18	AI2	33	DI5
	4	DO2-	19	GND	34	DI3
	5	DO2+	20	AI1	35	PULLHI
	6	DO1-	21	PAO+	36	HPULSE-
	7	DO1+	22	PAO-	37	SIGN+
	8	DI4	23	PBO-	38	HPULSE+
	9	DI1	24	PZO-	39	SIGN-
	10	DI2	25	PBO+	40	HSIGN-
	11	COM+	26	DO4-	41	PULSE+
	12	-	27	DO5-	42	HSIGN+
	13	PZO+	28	DO5+	43	PULSE-
	14	COM-	29	GND	44	OCZ
	15	-	30	DI8		

CN2	Pin Number	Signal Name
Encoder Connector 1394-6P	1	5V
	2	GND
	3	-
	4	-
	5	SD+
	6	SD-

Terminal Designation	Terminal Name
AR4-P-020/040/075/100	
L1, L2	Main circuit power supply input terminal
P, B, N	Regeneration function
U, V, W, PE	Servo motor connection terminal

AR4 Series Regenerative Resistor Wiring Instructions

■ Regenerative Resistor Wiring



AR4-E/P-020/040/075/100

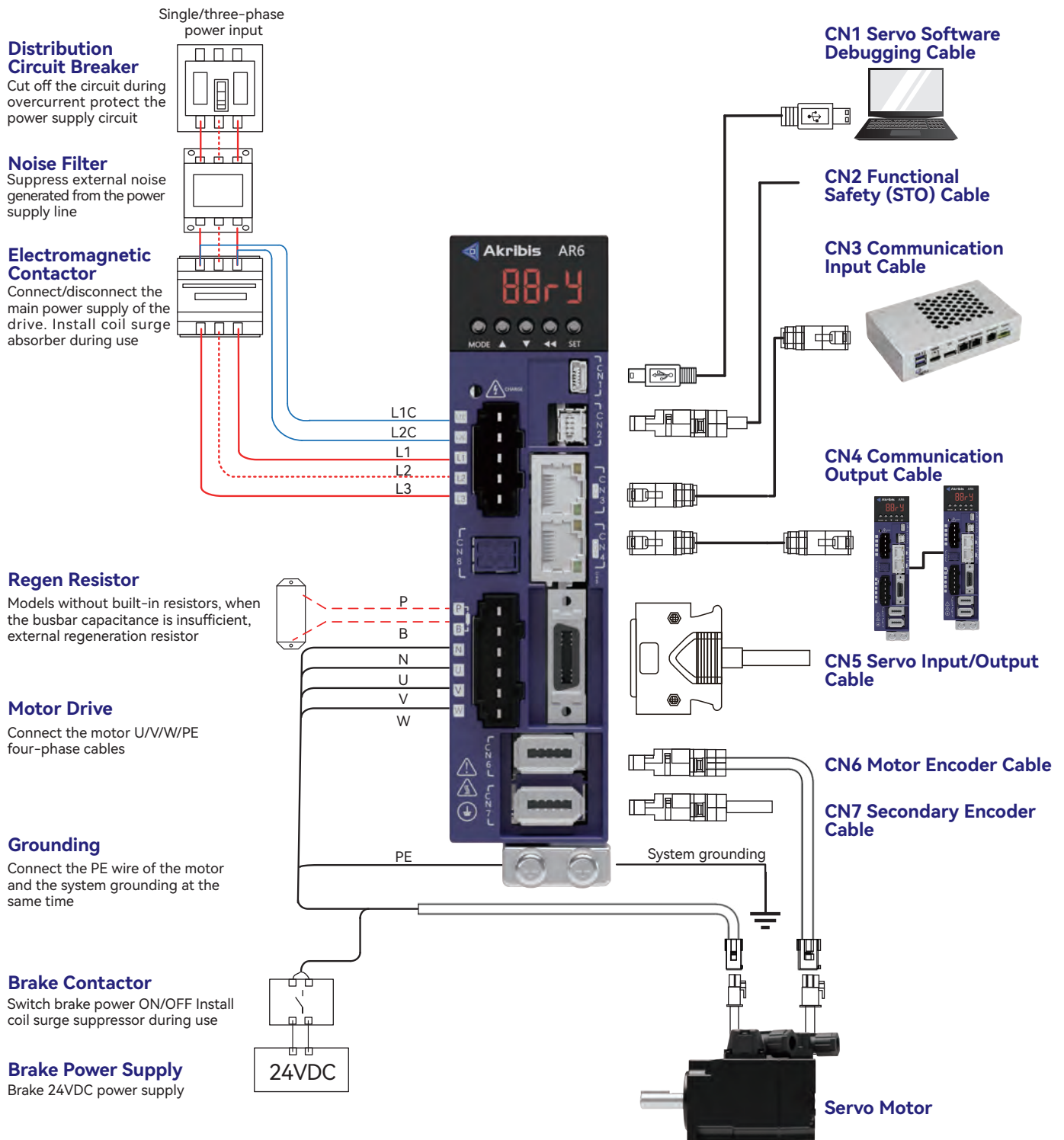
External Regen Resistor: P-B Terminals

- ▶ For situations requiring an external regenerative resistor, please select the appropriate resistor. Ensure that the value is not less than the table **Specifications for Regenerative Resistors** the allowable minimum external resistance value, otherwise, it may cause damage to the driver.
- ▶ The external regenerative resistor should be connected between P and B.
- ▶ Do not connect the regenerative resistor between the P and N terminals, as this may cause damage to the driver and pose a fire hazard.
- ▶ Before using the servo, please ensure that the parameters related to the external regenerative resistor are correctly set.

■ Specifications for Regenerative Resistors

Drive Model	Servo Driver Rated Voltage and Current		Minimum External Resistance Value	Maximum Absorbable Capacitance Breaking Energy Ec
AR4-E/P-020-A	Single phase 220V	1.6A	50Ω/50W	10J
AR4-E/P-040-A		2.8A	45Ω/50W	15J
AR4-E/P-075-A		5.5A	40Ω/50W	26J
AR4-E/P-100-A		7.6A	20Ω/80W	26J

AR6 Series Servo Wiring Diagram



Servo Wiring Diagram

Distribution Circuit Breaker

Cut off the circuit during overcurrent protect the power supply circuit

Noise Filter

Suppress external noise generated from the power supply line

Electromagnetic Contactor

Connect/disconnect the main power supply of the drive. Install coil surge absorber during use

Regen Resistor

Built-in regenerative resistors: P and RB are externally short-circuited by default. External regenerative resistor: Remove the short wire between P and RB, and connect the resistor between P and B.

The motor drives U/V/W

Connect the three-phase lines U/V/W of the motor

Grounding

Connect the PE wire of the motor and the system grounding at the same time

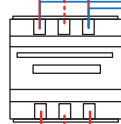
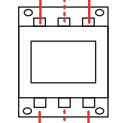
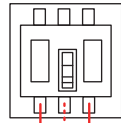
Brake Contactor

Connect/disconnect the power supply of the brake, install the coil surge suppressor when in use

Brake Power Supply

Brake 24VDC power supply

Single/three-phase power input



L1C
L2C
L1
L2
L3

P
RB
B
N
U
V
W

PE

System grounding

24VDC

CN1 Servo Software Debugging Cable



CN2 Functional Safety (STO) Cable

CN3 Communication Input Cable

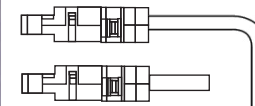
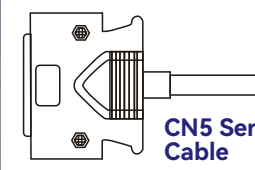
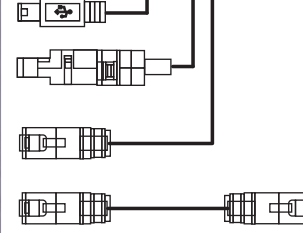


CN4 Communication Output Cable

CN5 Servo Input/Output Cable

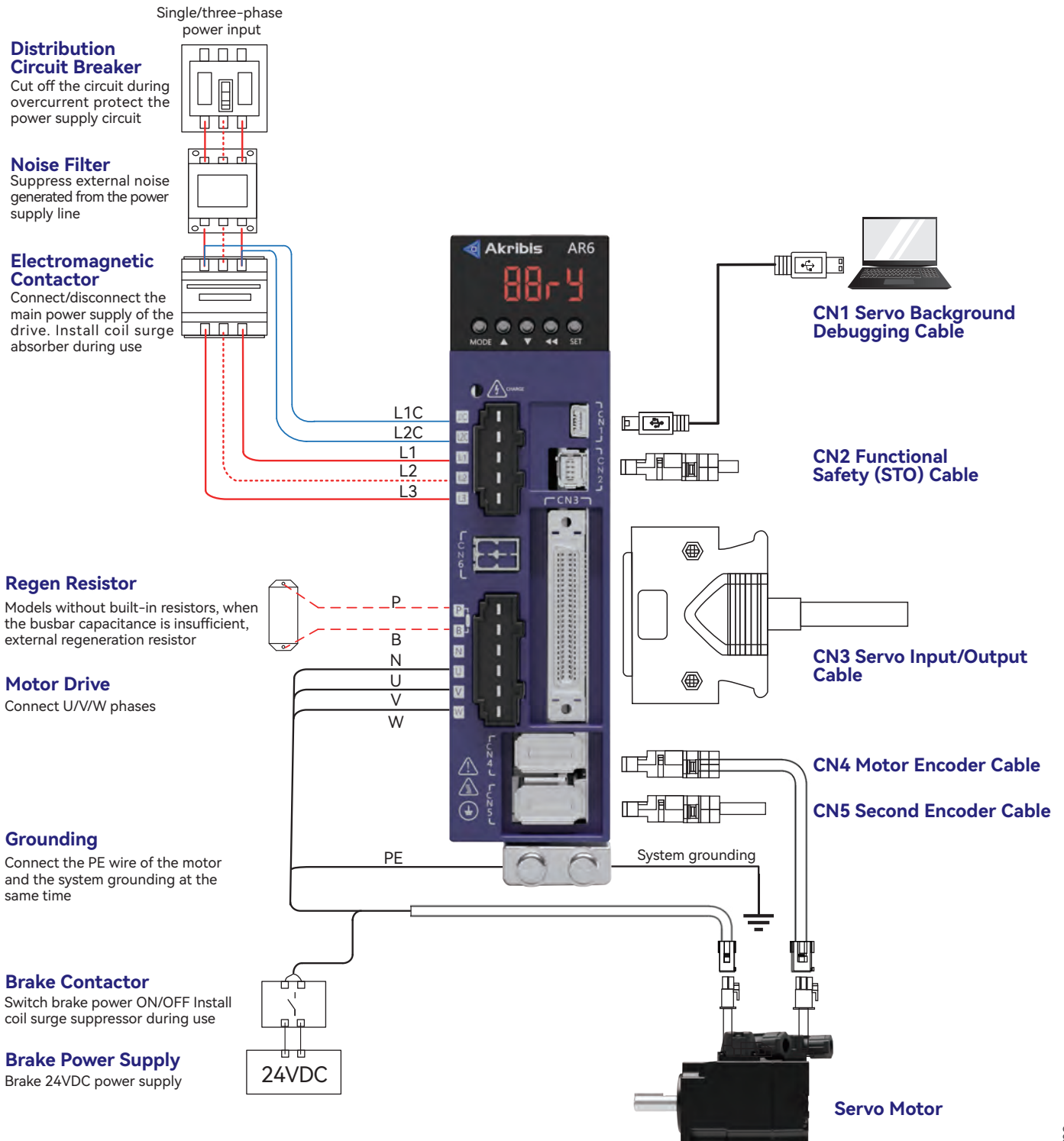
CN6 Motor Encoder Cable

CN7 Secondary Encoder Cable



Servo Motor

Servo Wiring Diagram



Servo Wiring Diagram

Distribution Circuit Breaker

Cut off the circuit during overcurrent protect the power supply circuit

Noise Filter

Suppress external noise generated from the power supply line

Electromagnetic Contactor

Connect/disconnect the main power supply of the drive. Install coil surge absorber during use

Regen Resistor

Built-in regenerative resistors: P and RB are externally short-circuited by default. External regenerative resistor: Remove the short wire between P and RB, and connect the resistor between P and B.

The motor drives U/V/W

Connect the three-phase lines U/V/W of the motor

Grounding

Connect the PE wire of the motor and the system grounding at the same time

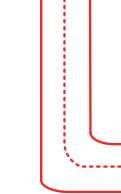
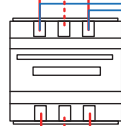
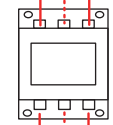
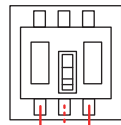
Brake Contactor

Connect/disconnect the power supply of the brake, install the coil surge suppressor when in use

Brake Power Supply

Brake 24VDC power supply

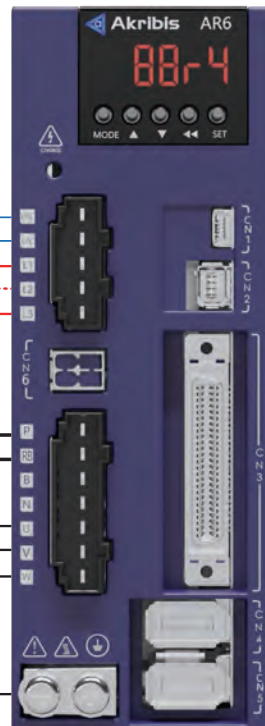
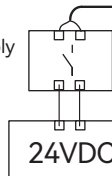
Single/three-phase power input



L1C
L2C
L1
L2
L3

P
RB
B
N
U
V
W
PE

System grounding



CN1 Servo Background Debugging Cable

CN2 Functional Safety (STO) Cable

CN3 Servo Input/Output Cable

CN4 Motor Encoder Cable

CN5 Second Encoder Cable

Servo Motor

■ EtherCAT Type

CN1	Pin Number	Signal Name
MINI USB	1	VBUS
	2	D-
	3	D+
	4	-
	5	GND

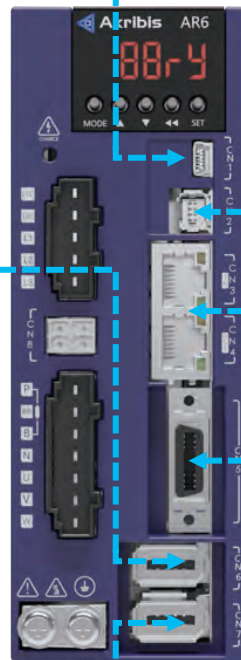
CN6	Pin Number	Signal Name
Recommended Model 3M:36210-0100PL	1	5V
	2	GND
	3	-
	4	-
	5	-
	6	-
	7	-
	8	-
	9	SD+
	10	SD-

CN7	Pin Number	Signal Name	
		SC Model	SG Model
Recommended Model 3M:36210-0100PL	1	5V	-
	2	GND	GND
	3	SEC_A+	RS485A+
	4	SEC_A -	RS485A -
	5	SEC_B+	RS485B+
	6	SEC_B -	RS485B -
	7	SEC_Z+	-
	8	SEC_Z -	-
	9	-	-
	10	MTR_TEMP	-

CN2	Pin Number	Signal Name
Recommended model TE: 2013595-1	1	Internal power negative
	2	Internal power positive
	3	STO1-
	4	STO1+
	5	STO2-
	6	STO2+
	7	STO_OUT -
	8	STO_OUT+

	CN3 (IN)		CN4 (OUT)	
	Pin Number	Signal Name	Pin Number	Signal Name
EtherCAT Communication Terminal	1	TX+	1	TX+
	2	TX-	2	TX-
	3	RX+	3	RX+
	4	-	4	-
	5	-	5	-
	6	RX-	6	RX-
	7	-	7	-
	8	-	8	-

CN5	Pin Number	Signal Name	Pin Number	Signal Name
Recommended Model SCSI-20P	1	DO1+	11	DI6
	2	DO1-	12	HDI1
	3	DO3+	13	HDI2
	4	DO3-	14	DO2+
	5	DI1	15	DO2-
	6	DI_COM	16	GND
	7	DI2	17	PAO+
	8	DI3	18	PAO-
	9	DI4	19	PBO+
	10	DI5	20	PBO-



Servo Wiring Diagram

■ Pulse Type

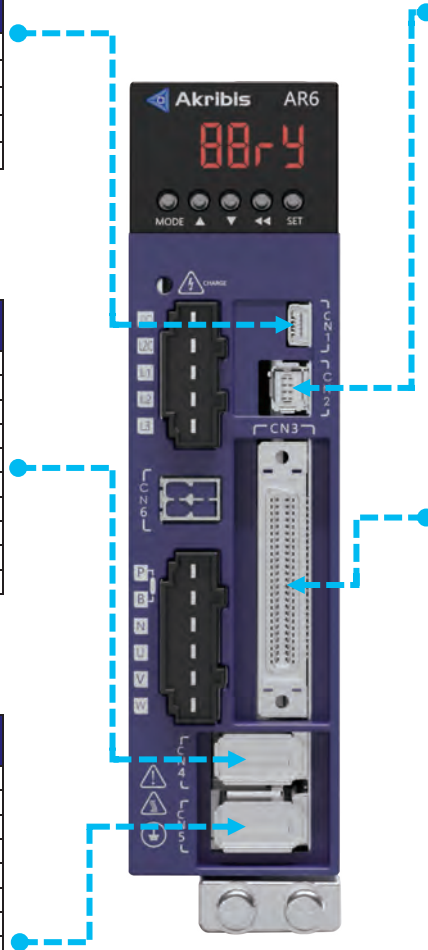
CN1	Pin Number	Signal Name
MINI USB	1	VBUS
	2	D-
	3	D+
	4	-
	5	GND

CN4	Pin Number	Signal Name
Recommended Model 3M:36210-0100PL	1	5V
	2	GND
	3	-
	4	-
	5	-
	6	-
	7	-
	8	-
	9	SD+
	10	SD-

CN5	Pin Number	Signal Name
Recommended Model 3M:36210-0100PL	1	5V
	2	GND
	3	SEC_A+
	4	SEC_A -
	5	SEC_B+
	6	SEC_B -
	7	SEC_Z+
	8	SEC_Z -
	9	-
	10	MTR_TEMP

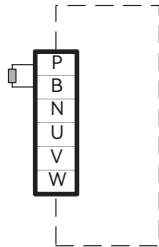
CN2	Pin Number	Signal Name
Recommend ed model TE: 2013595-1	1	Internal power negative
	2	Internal power positive
	3	STO1 -
	4	STO1+
	5	STO2 -
	6	STO2+
	7	STO_OUT -
	8	STO_OUT+

CN3	Pin Number	Signal Name	Pin Number	Signal Name
I/O Connector SCSI-50P	1	DI1	28	PBO -
	2	DI2	29	PBO+
	3	DI3	30	PAO -
	4	DI_COM	31	PAO+
	5	DI4	32	OCZ
	6	DI5	33	GND
	7	DI6	34	PULSE+
	8	DI7	35	PULSE -
	9	HDI1	36	SIGN+
	10	HDI2	37	SIGN -
	11	DO1 -	38	PULLHI
	12	DO1+	39	GND
	13	DO2 -	40	HPULSE+
	14	DO2+	41	HPULSE -
	15	DO3 -	42	HSIGN+
	16	DO3+	43	HSIGN -
	17	DO4 -	44	GND
	18	DO4+	45	AI1
	19	DO5 -	46	AI2
	20	DO5+	47	AO2
	26	PZO -	48	AO1
	27	PZO+	49	GND

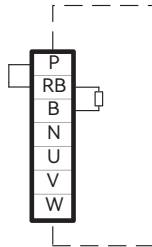


AR6 Series Regenerative Resistor Wiring Instructions

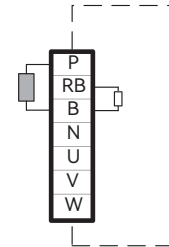
■ Regenerative Resistor Wiring



No built-in regenerative resistor. External regeneration resistor



Short-circuiting between P and RB
It is configured as an internal regeneration resistor



Disconnection between P and RB
The indirect external resistor of P-B
It is configured as an external regenerative resistor

- ▶ For models without a built-in regenerative resistor, the external regenerative resistor should be connected between P and B.
- ▶ Do not connect the regenerative resistor between the P and N terminals, as this may cause damage to the driver and pose a fire hazard.
- ▶ For models with a built-in regenerative resistor, when using the internal resistor, the PRB terminal must be shorted. When using an external resistor, remove the shorting wire between P-RB and connect the external resistor between P-B.
- ▶ For situations requiring an external regenerative resistor, please select the appropriate resistor. Ensure that the value is not less than the table **Specifications for Regenerative Resistors** the allowable minimum external resistance value, otherwise, it may cause damage to the driver.
- ▶ Before using the servo, please ensure that the parameters related to the external regenerative resistor are correctly set.

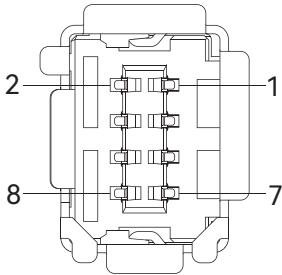
■ Specifications for Regenerative Resistors

Drive Model	Servo Driver Rated Voltage and Current		Internal Regenerative Resistor Specifications			Minimum External Resistance Value	Max. absorbable Capacitance Breaking Energy Ec
			Resistance Value	Resistor Power	Power Handling Capacity Pr		
AR6-E/P-020-A	Single/three phase 220V	1.6A	-	-	-	50Ω	10J
AR6-E/P-040-A		2.8A	-	-	-	45Ω	15J
AR6-E/P-075-A		5.5A	50Ω	50W	25W	40Ω	23J
AR6-E/P-100-A		7.6A	25Ω	80W	40W	20Ω	32J

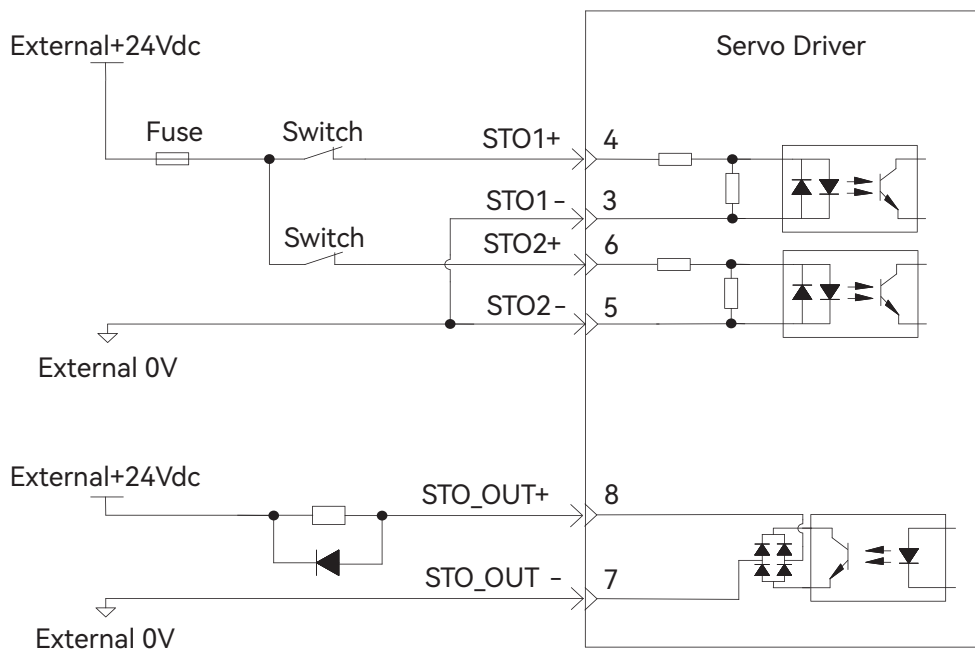
Servo Wiring Diagram

AR6 STO Terminal Definition: ST-STO-AR6

Functional Safety Terminal Definition

Functional Safety Connector (CN2)	Module Name	Signal Name	Pin Number	Functionality
	Functional safety terminal	Internal power negative	1	Internal power supply (do not use)
		Internal power positive	2	
		STO1-	3	STO1
		STO1+	4	
		STO2-	5	STO2
		STO2+	6	
		STO_OUT-	7	STO status output
		STO_OUT+	8	
		Enclosure	-	Shielding

Instructions for Functional Safety Wiring



STO Input/Output Signal Relationship

STO1	STO2	STO_OUT Status	Motor Power-on Status
24V (ON/Valid)	24V (ON/Valid)	STO_OUT (OFF)	IGBT drives well, motor can enable and run
24V (ON/Valid)	0V (OFF/Invalid)	STO_OUT (Single circuit disconnection) (OFF)	Gate power supply cut-off, torque OFF
0V (OFF/Invalid)	24V (ON/Valid)	STO_OUT (Single circuit disconnection) (OFF)	Gate power supply cut-off, torque OFF
0V (OFF/Invalid)	0V (OFF/Invalid)	STO_OUT (Double circuit disconnection) (ON)	Gate power supply cut-off, torque OFF

Motor Parameters and Dimension Drawings

Motor Specifications

Motor Model	ASV40-A3 / 5-H-005-A	ASV40-A3 / 5-H-010-A	ASV60-A3 / 5-H-020-A	ASV60-A3 / 5-H-040-A	ASV80-A3/5-H-075-A
Rated Duration	Consecutive				
Insulation Class	Class F				
Insulation Resistance	DC500 V, 10MΩ or higher				
Insulation Withstand Voltage	AC1500 V, 1 minute				
Excitation Method	Permanent magnet type				
Installation Method	Flange type				
Connection Method	Direct connection				
Rotation Direction	When a forward rotation command is issued, the rotation is counterclockwise (CCW) when viewed from the motor load side				
Vibration Rating ①	V15				
Ambient Temperature	0°C~40°C				
Ambient Humidity	20% to 80% RH (no condensation allowed)				
Installation Location	1. Indoor environments free of corrosive or explosive gases				
	2. Well-ventilated environments with minimal dust, debris and moisture				
	3. Environments that facilitate easy inspection and cleaning				
	4. Locations below 1000m altitude				
	5. Locations without strong magnetic fields				
Storage Environment	When storing the motor in an unpowered state:				
	1. Ambient temperature: -20°C to +60°C				
	2. Ambient humidity: 20% to 80% RH (no condensation permitted)				
Shock Resistance	Flange acceleration (measured at flange surface): 490 m/s ² Number of shocks: 2				
Vibration Resistance	Vibration acceleration (measured at flange surface): 49 m/s ²				
Compliance with Global Standards	CE				

① Vibration grade V15 indicates that the vibration amplitude of a single servo motor operating at rated speed is less than 15μm.

Motor Rated Values

Motor Model			ASV40-A3 / 5-H-005-A	ASV40-A3 / 5-H-010-A	ASV60-A3 / 5-H-020-A	ASV60-A3 / 5-H-040-A	ASV80-A3/5-H-075-A	
Flange Dimensions		mm	40		60		80	
Motor Length ^①		mm	60.7[93.7]	74[107]	73[102]	92[120]	101.8[136.3]	
Bus Voltage		Vdc	311					
Rated Speed		rpm	3000					
Maximum Speed		rpm	6000					
Rated Power ^②		W	50	100	200	400	750	
Rated Torque		Nm	0.16	0.32	0.64	1.27	2.4	
Peak Torque		Nm	0.56	1.12	2.24	4.45	8.4	
Rated Current		Arms	1.3	1.36	1.31	2.6	4.62	
Peak Current		Arms	5.28	4.65	4.47	9.4	16.9	
Torque Constant		Nm/Arms	0.13	0.27	0.53	0.524	0.56	
Rotational Inertia ^①		kg·cm ²	0.03 [0.032]	0.055 [0.057]	0.311 [0.328]	0.551 [0.568]	1.99 [2.04]	
Protection Rating		-	IP67					
Weight ^①		kg	0.23 [0.35]	0.37 [0.59]	0.78 [1.09]	1.02 [1.33]	2.07 [2.71]	
Heatsink Dimensions		mm	200×200×6		250×250×6			
Brake Specifications ^③	Rated Voltage	V	DC24 V±10%					
	Capacity	W	6.1		7.6		8.5	
	Holding Torque	Nm	0.32		1.5		3.8	
	Coil Resistance	Ω(@20°C)	94.4±7%		75.79±7%		67.8±7%	
	Rated Current	A(@20°C)	0.25		0.32		0.39	
	Brake Engagement Time	ms	<40		<60			
	Brake Release Time	ms	<20					<40
	Backlash	°	<1.5					<0.5
Permissible Shaft Load ^④	LF	mm	20		25		35	
	Radial	N	78		245		392	
	Axial	N	54		74		147	

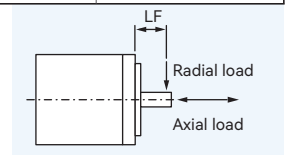
① Parameters in [] denote motors equipped with a brake.

② Models with oil seals require a 10% derating during use.

③ When using servo motors equipped with a holding brake, please observe the following:

1. The holding brake must not be used as a service brake.
2. The brake holding time and brake operation time vary depending on the discharge circuit. When in use, please ensure to verify the operation delay time with the actual product.
3. The DC24 V power supply must be provided by the user.

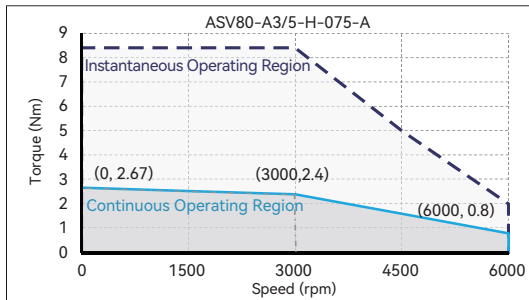
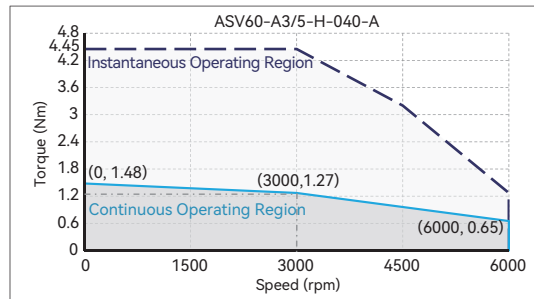
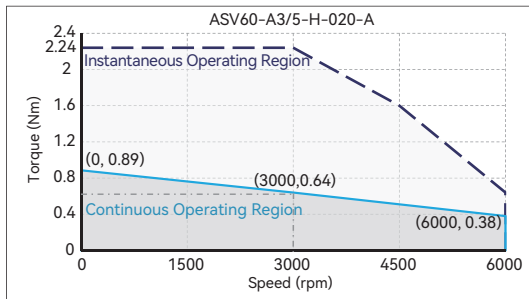
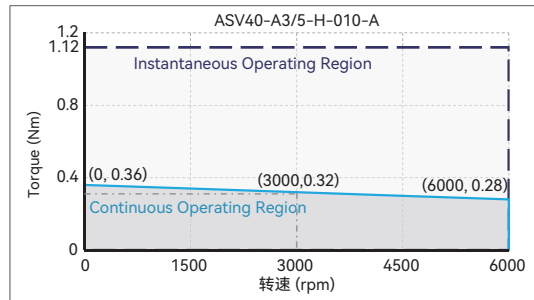
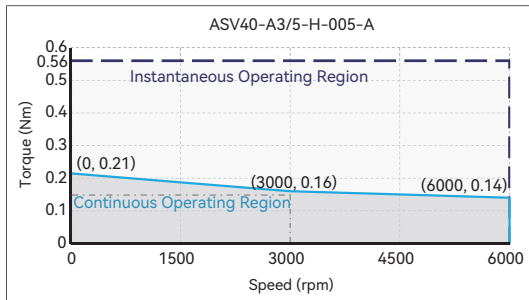
④ In mechanical design, radial and axial loads on the servo motor during operation must not exceed the values specified in the table.



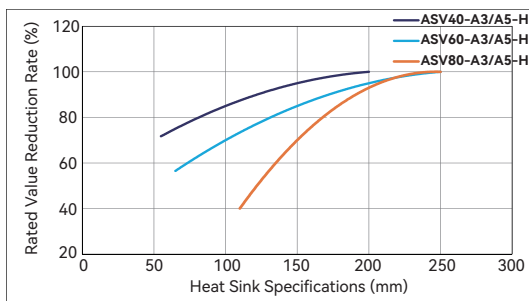
Motor Parameters and Dimension Drawings

Curve Chart

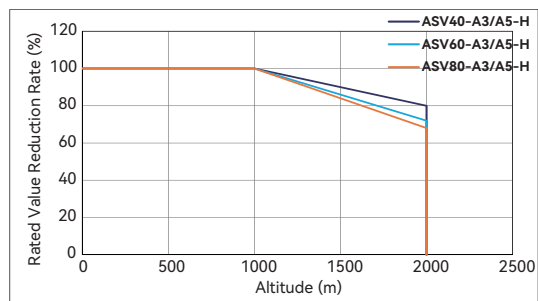
■ Speed/Torque Curves



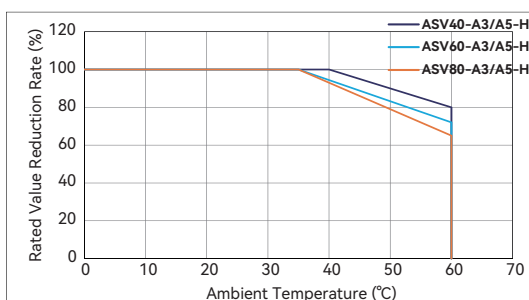
■ Motor Derating Characteristic Curves



Effect of Heat Dissipation Area



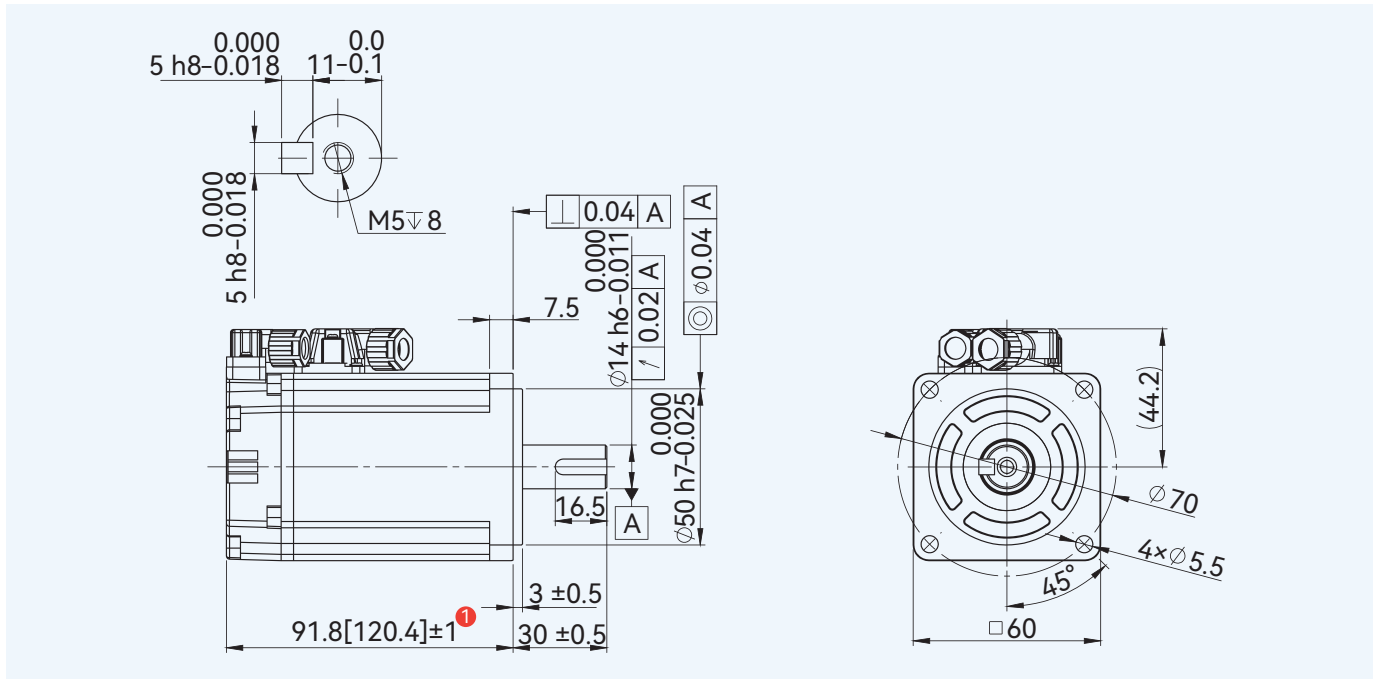
Effect of Altitude



Effect of Ambient Temperature

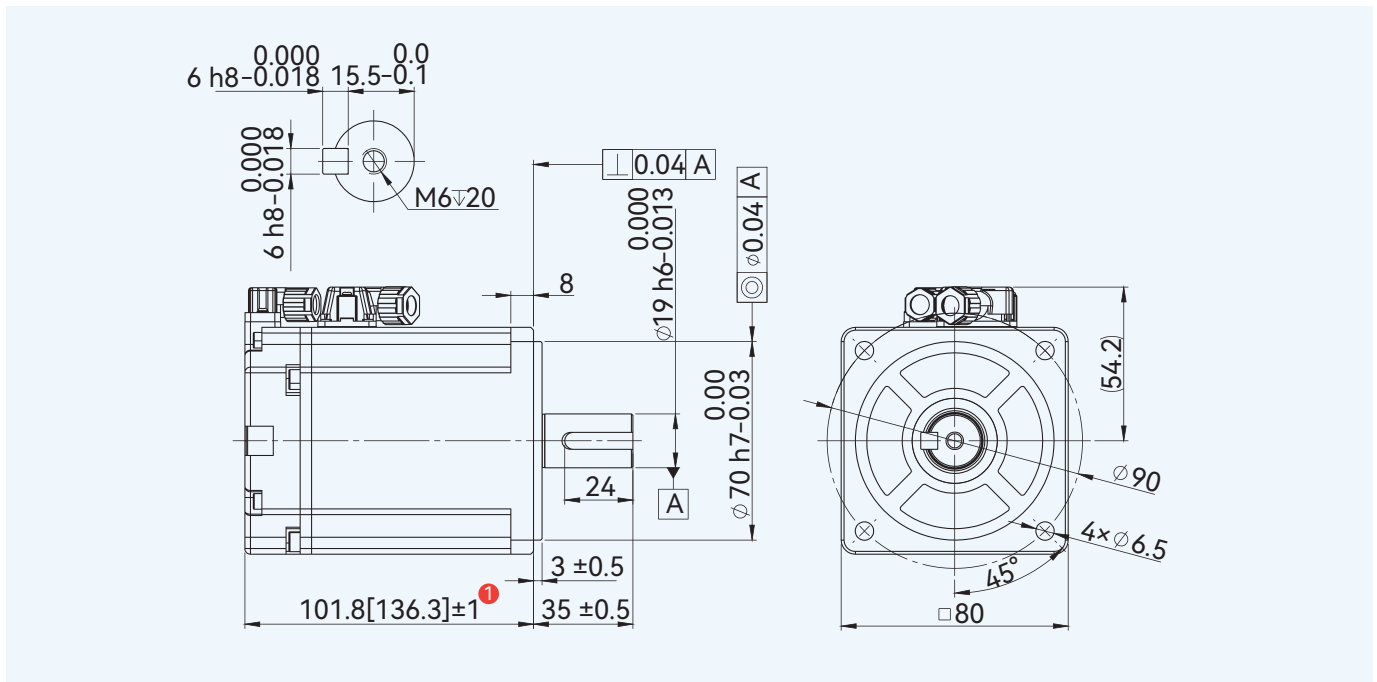
Motor Parameters and Dimension Drawings

■ ASV60-A3/5-H-040-A



① Dimensions for brake models are indicated in []

■ ASV80-A3/5-H-075-A



① Dimensions for brake models are indicated in []

Driver Parameters and Dimension Drawings

Driver Specifications

Item			Description		
Basic Specifications	Control Method		IGBT SVPWM control, sine wave current drive method		
			220V, 380V: single-phase or three-phase full-wave rectification		
	Operating Conditions	Operating / Storage Temperature ①	0 ~ +40℃ / -20 ~ +70℃		
		Operating / Storage Humidity	Below 90% RH (non-condensing)		
		Vibration Resistance / Shock Strength	4.9m/s² / 19.6m/s²		
		Protection Rating	IP20		
		Pollution Degree	PD level 2		
		Altitude	Maximum altitude up to 5000m; no derating required at or below 1000m; above 1000m, derate 1% per 100m increase; contact manufacturer if altitude exceeds 2000m		
Position Control Mode	Performance	Feedforward Compensation	Supports speed feedforward setting (0–100.0%) to eliminate following error		
		Command Shaping	Position command low-pass filtering and averaging filtering		
	Frequency Division Output	Output Type	Phase A, Phase B: differential output		
		Frequency Division Range	One motor revolution can produce pulses with a frequency division range from 140 to 1,048,576		
Speed and Torque Control Mode	Performance	Speed Loop Characteristics	Speed loop step response: 562.5μs (0–1000rpm) Speed loop frequency response: 3.5kHz bandwidth (command signal: ±25%)		
		Current Loop Characteristics	Current loop step response: 187.5μs (0–100%) ±2% torque control accuracy		
		Input and Output		Digital Input Signals	Configurable functions: forward overtravel switch, reverse overtravel switch, origin switch, etc.
		Digital Output Signals		Configurable functions: servo ready, zero speed signal, speed reached, position reached, positioning proximity signal, torque limiting, warning, servo fault, etc.	
Supported Functions	Electronic Gear Ratio		Built-in dual electronic gear ratios, supporting gear ratio switching functionality		
	Limit Protection		Immediate stop upon activation of forward or reverse limit switches		
	Fault Detection		Protections include overcurrent, overvoltage, undervoltage, overload, main circuit detection faults, heatsink overheating, overspeed, encoder faults, parameter anomalies and others		
	Display Functions		5-digit LED display with power indicator light labeled CHARGE		
	Vibration Suppression		Equipped with six notch filters spanning 50Hz to 5000Hz, including two adaptive notch filters, featuring input shaping and position notch anti-filtering algorithms for low-frequency vibration		
	Ease of Use		Auto-tuning, speed observer and model tracking control		
	Debug Interface		USB		
	Others		Status display, alarm logging, JOG operation, etc.		
Compliance with Global Standards			CE		

^① Please install or store the servo driver within the specified temperature range.

Driver Electrical Parameters

■ AR4

AR4 Series Models	AR4-E / P-020-A	AR4-E / P-040-A	AR4-E / P-075-A	AR4-E / P-100-A ^①	AR4-E / P-150-A ^①	AR4-E / P-200-A ^①
Rated Output Current Arms	1.6	2.8	5.5	7.6	11.6	14.0
Maximum Output Current Arms	5.8	10.1	16.9	23.0	32.0	42.0
Rated Input Current Arms	2.3	4.0	7.9	9.6	Single-phase 12.8 / Three-phase 8.0	Single-phase 16.0 / Three-phase 10.2
Built-in Regenerative Resistor ^②	No standard regenerative resistor				Optional 25Ω / 80W regenerative resistor	
Main Circuit Power Supply	Single-phase AC200V ~ 240V, -10 ~ +10%, 50 / 60Hz				Single-phase / Three-phase AC 200V~240V, -10% to +10%, 50 / 60Hz	

^① Higher power drivers will be released soon.

^② All models support external regenerative resistors.

■ AR6

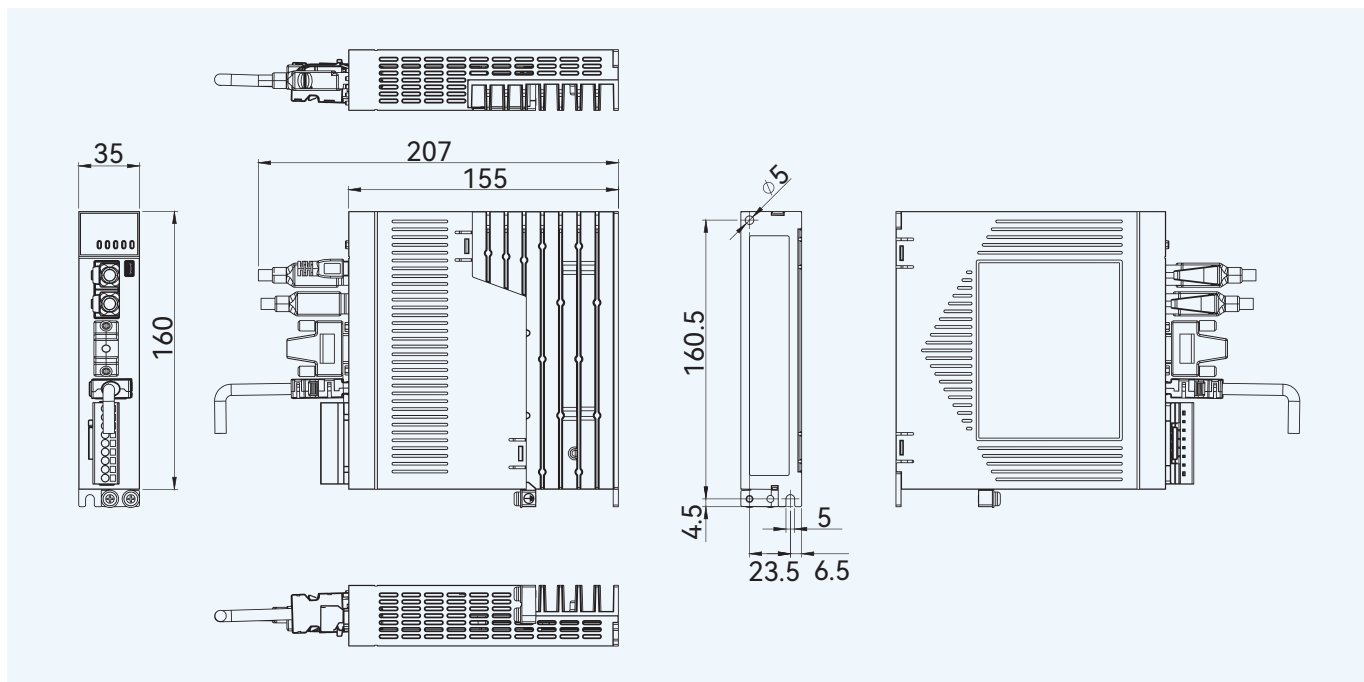
AR6 Series Models	AR6-E / P-020-A	AR6-E / P-040-A	AR6-E / P-075-A	AR6-E / P-100-A ^①	AR6-E / P-150-A ^①	AR6-E / P-200-A ^①
Rated Output Current Arms	1.6	2.8	5.5	7.6	11.6	14.0
Maximum Output Current Arms	5.8	10.1	16.9	23.0	32.0	42.0
Rated Input Current Arms	Single-phase 2.3 / Three-phase 1.4	Single-phase 4.0 / Three-phase 2.6	Single-phase 7.9 / Three-phase 4.4	Single-phase 9.6 / Three-phase 5.6	Single-phase 12.8 / Three-phase 8.0	Single-phase 16.0 / Three-phase 10.2
Built-in Regenerative Resistor ^② Specifications	No built-in regenerative resistor		50Ω / 50W	25Ω / 80W		
Main Circuit Power Supply	Single-phase / Three-phase AC 200V~240V, -10% to +10%, 50 / 60Hz					

^① Higher power drivers will be released soon.

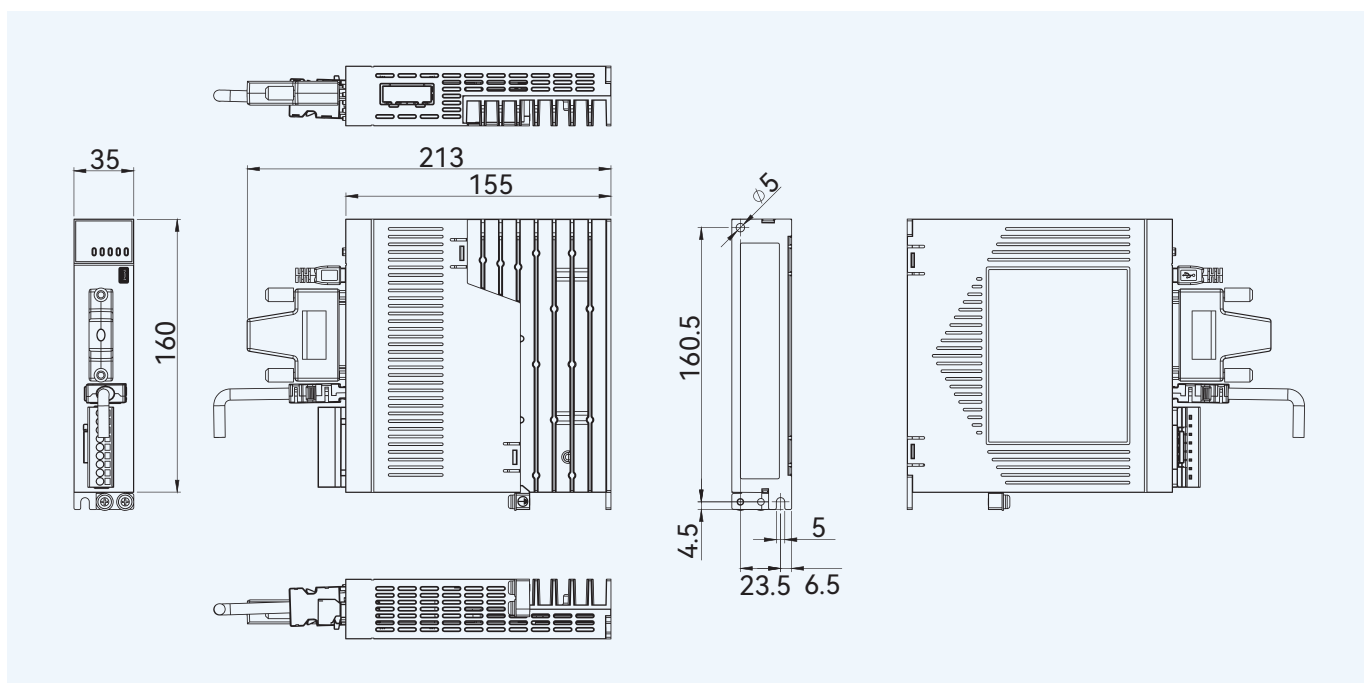
^② All models support external regenerative resistors.

Driver Installation Dimension Drawings

■ AR4-E-020 / 040

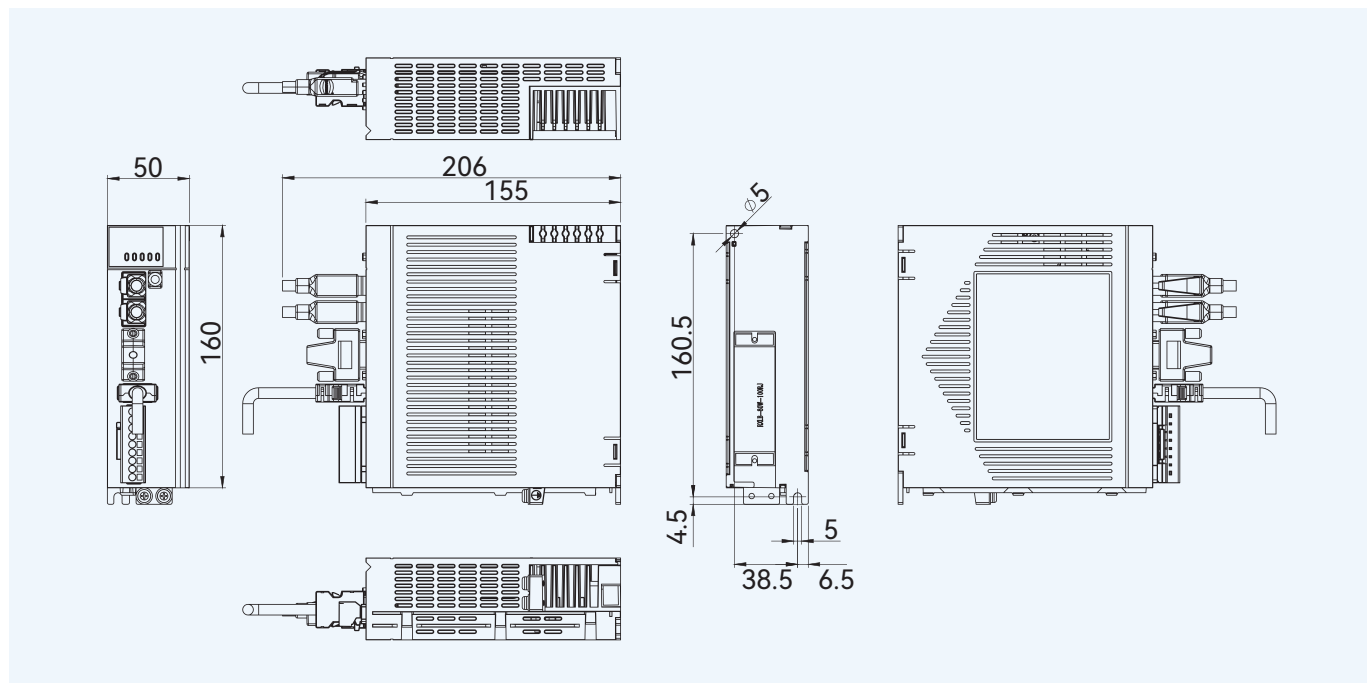


■ AR4-P-020 / 040

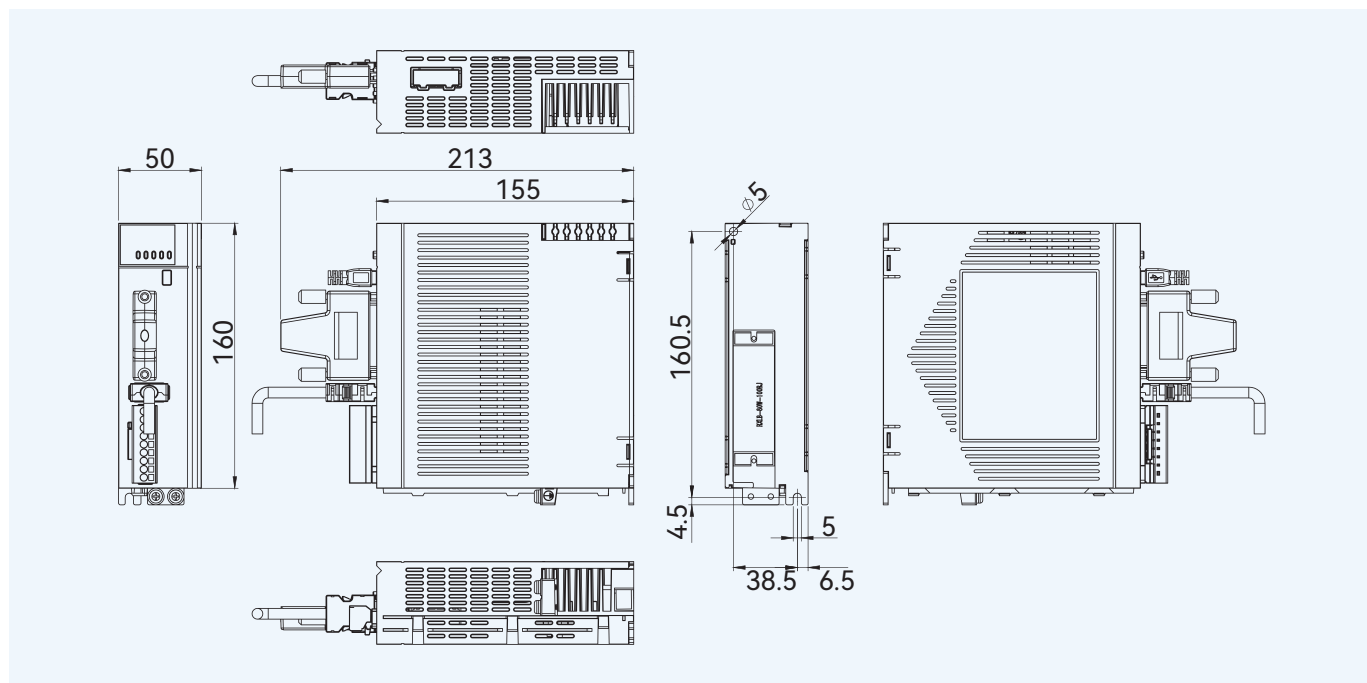


Driver Parameters and Dimension Drawings

■ AR4-E-075/100

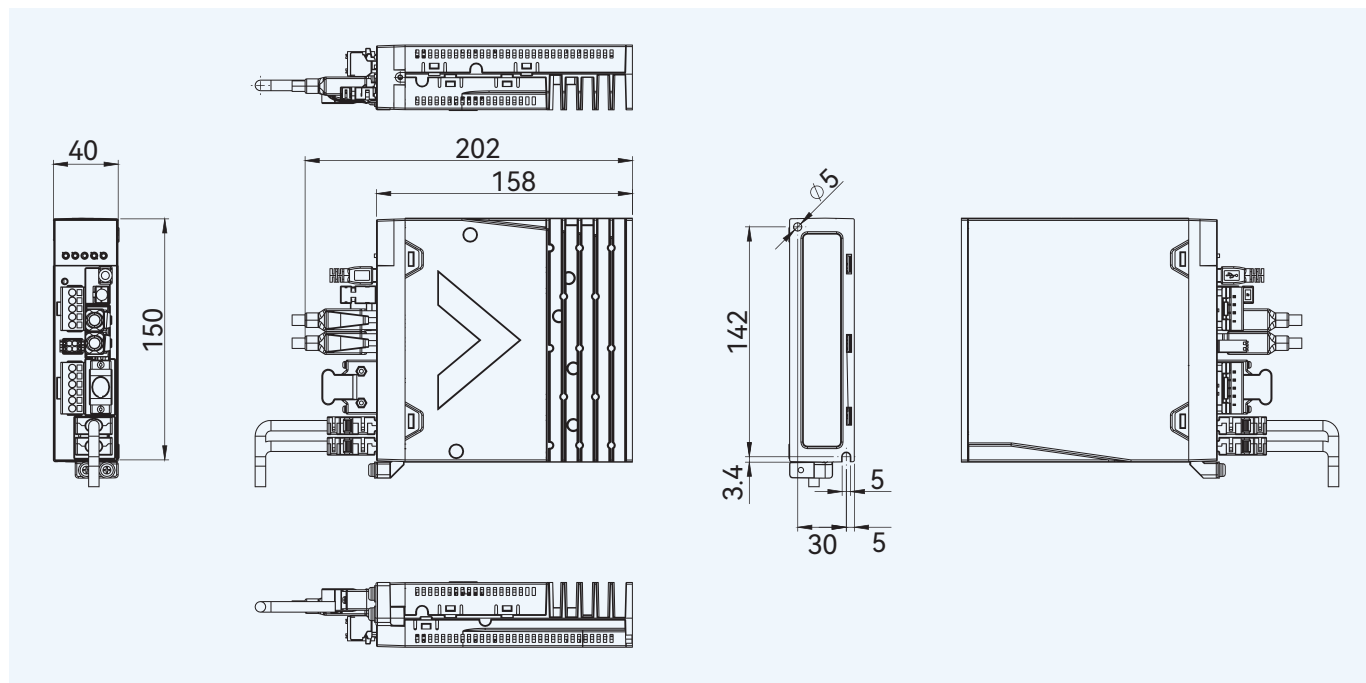


■ AR4-P-075/100

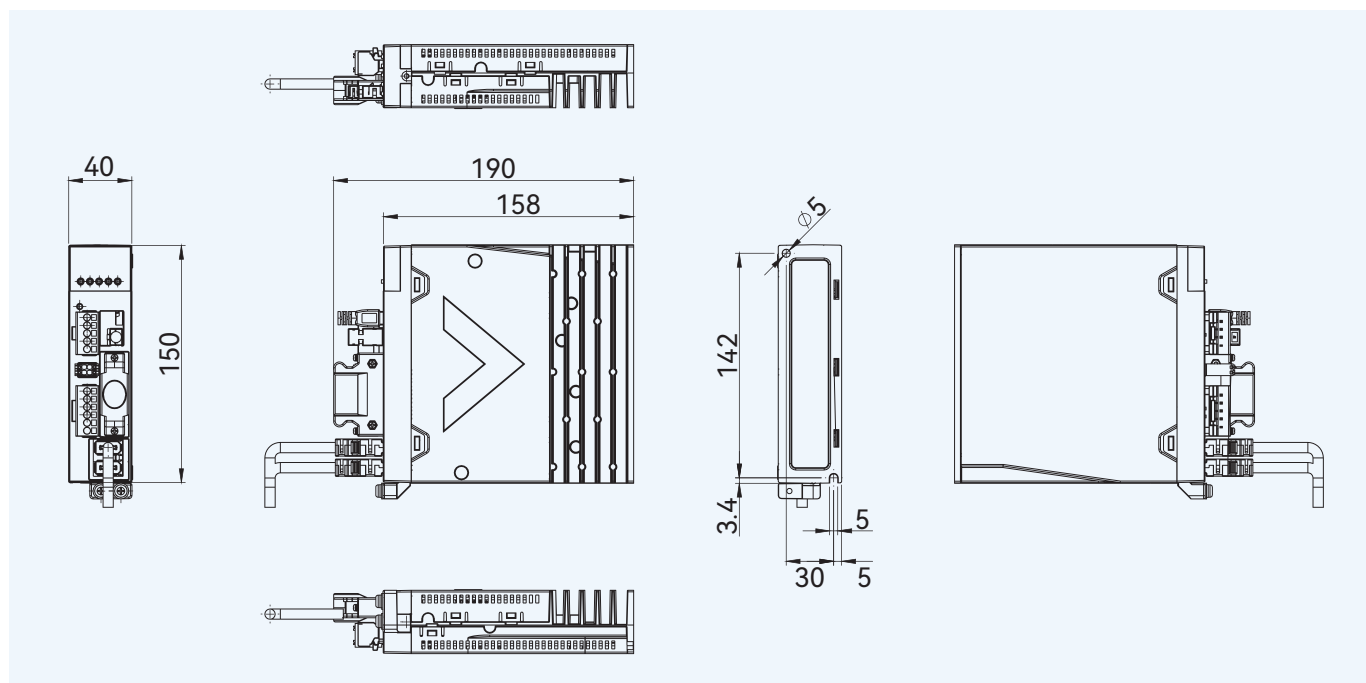


Driver Parameters and Dimension Drawings

■ AR6-E/F-020 / 040

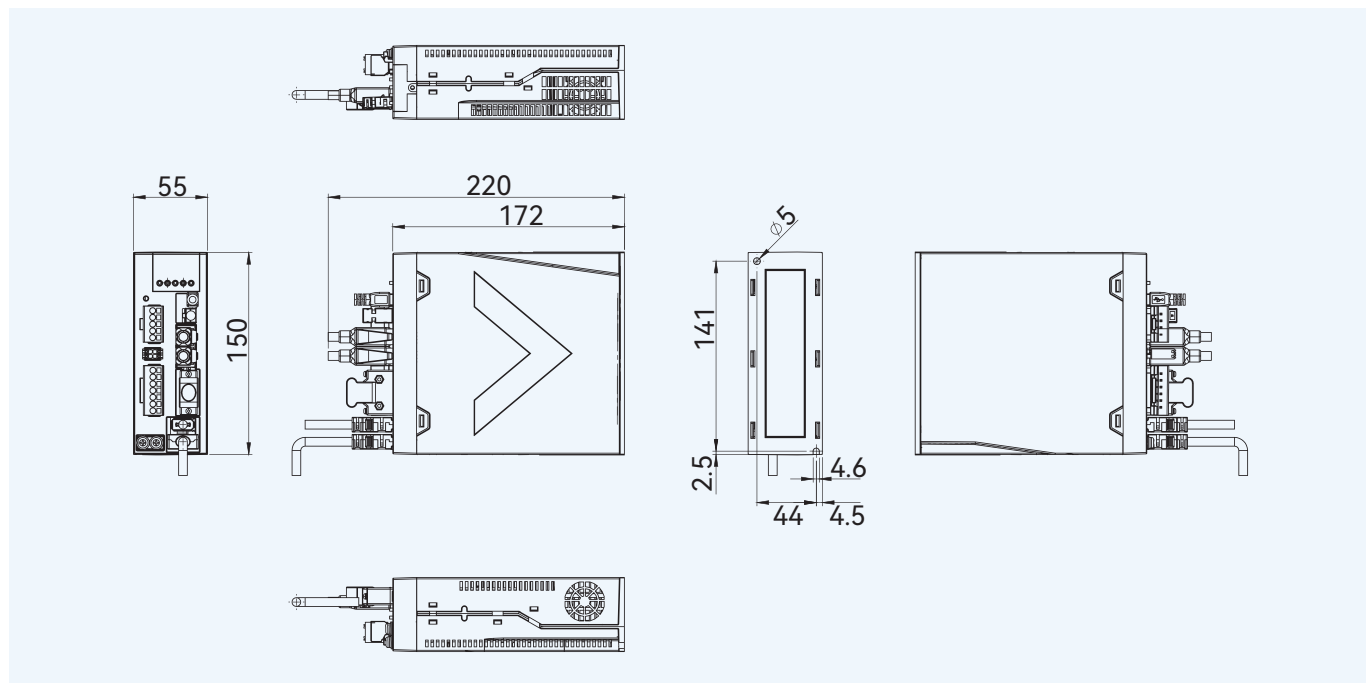


■ AR6-P-020 / 040

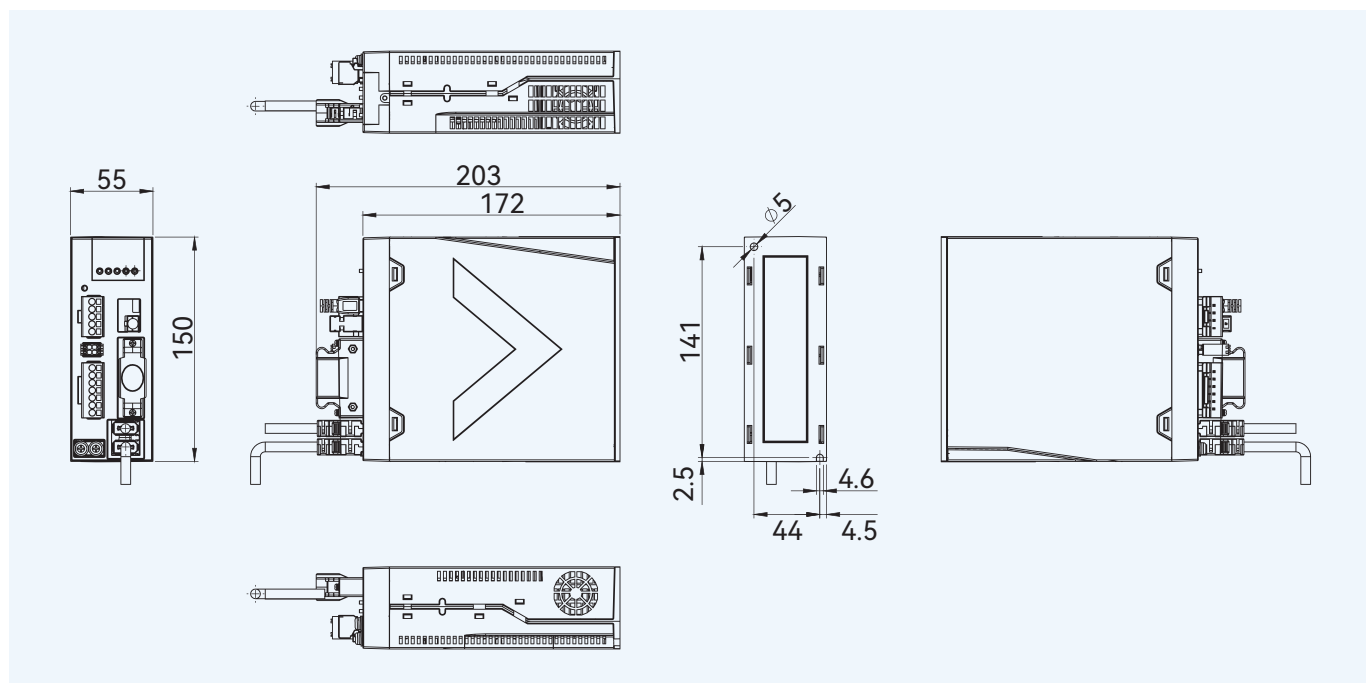


Driver Parameters and Dimension Drawings

■ AR6-E/F-075



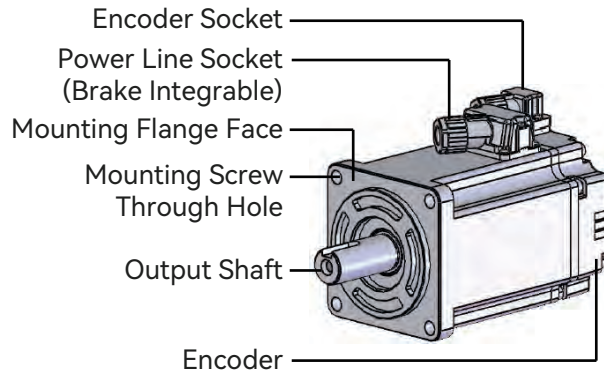
■ AR6-P-075



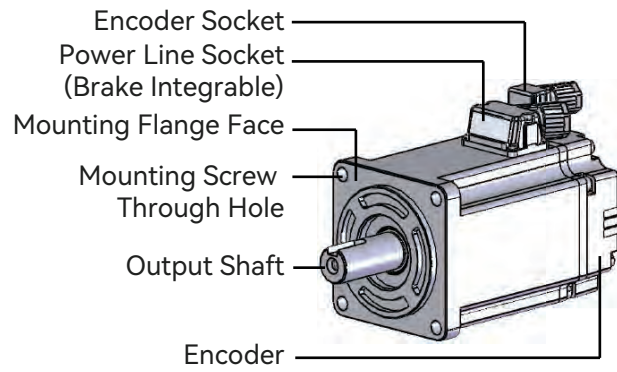
Motor Cable Matching

■ Component Description

Please note that for 50W motors, due to the shorter body length, it is recommended to select the rear outlet cable method to avoid interference between the power cable and the motor mounting surface.



Cable Front Outlet Method



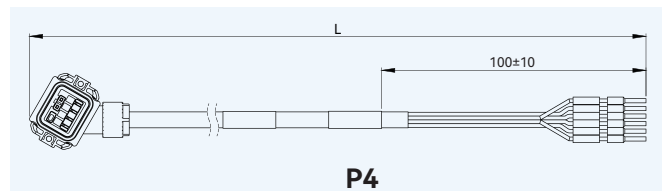
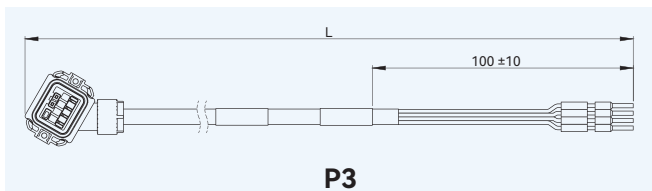
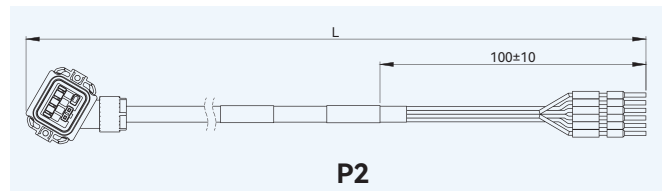
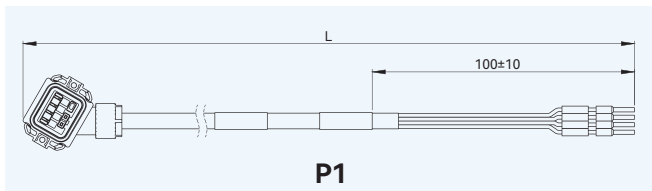
Cable Rear Outlet Method

■ Servo Motor Power Cable Matching

Motor Model	Cable Name			Cable Model	L Cable Length (mm)	Cable Appearance Diagram
ASV40-A3/5-H-005-A-□-□	Front Outlet	Non-brake	Fixed cable	SVCAB-PWR-S-20-A-□□□L-00	030: 3000mm	P1
ASV40-A3/5-H-010-A-□-□			Drag chain Cable	SVCAB-PWR-S-20-A-□□□L-01		
ASV60-A3/5-H-020-A-□-□		Brake	Fixed cable	SVCAB-PWB-S-20-A-□□□L-00	050: 5000mm	P2
ASV60-A3/5-H-040-A-□-□			Drag chain cable	SVCAB-PWB-S-20-A-□□□L-01		
ASV80-A3/5-H-075-A-□-□	Rear Outlet	Non-brake	Fixed cable	SVCAB-PWR-S-20-B-□□□L-00	080: 8000mm	P3
			Drag chain cable	SVCAB-PWR-S-20-B-□□□L-01		
		Brake	Fixed cable	SVCAB-PWB-S-20-B-□□□L-00	100: 10000mm	P4
			Drag chain cable	SVCAB-PWB-S-20-B-□□□L-01		

① For special cable length requirements, please contact sales representatives for customization.

■ Cable Appearance Diagrams



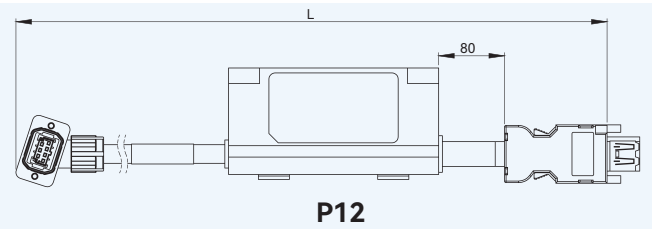
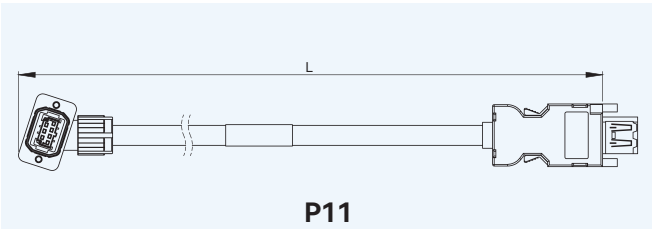
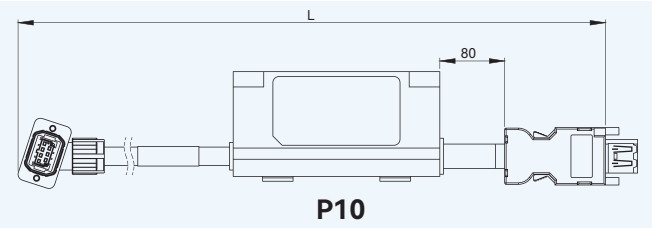
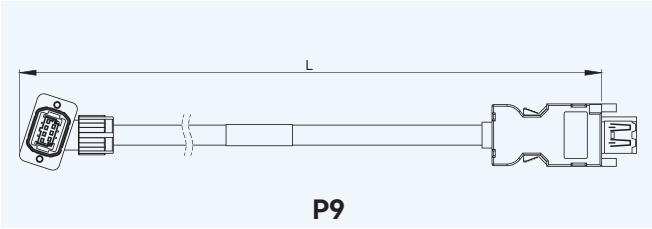
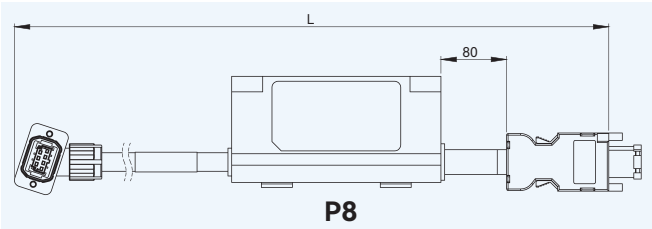
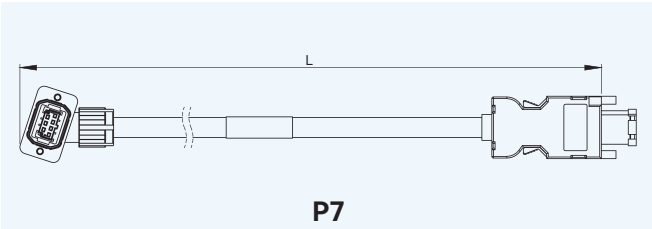
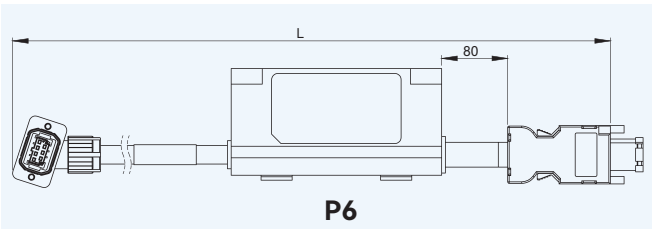
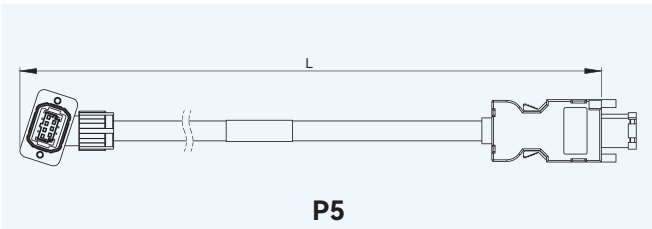
Encoder Cable Matching

■ Servo Motor Encoder Cable Matching

Motor Model	Cable Name			Cable Model	L Cable Length (mm) ^①	Cable Appearance Diagram
ASV40-A3/5-H-005-A-□-□	Front outlet	Single-turn absolute encoder	AR4 driver	SVCAB-ENC-A7-00-A-□□□L-01 ^②	030: 3000mm	P5
		Multi-turn absolute encoder		SVCAB-ENB-A7-00-A-□□□L-01 ^③		P6
ASV40-A3/5-H-010-A-□-□	Rear outlet	Single-turn absolute encoder		SVCAB-ENC-A7-00-B-□□□L-01 ^②	050: 5000mm	P7
		Multi-turn absolute encoder		SVCAB-ENB-A7-00-B-□□□L-01 ^③		P8
ASV60-A3/5-H-020-A-□-□	Front outlet	Single-turn absolute encoder	AR6 driver	SVCAB-ENC-A7-01-A-□□□L-01 ^②	080: 8000mm	P9
ASV60-A3/5-H-040-A-□-□		Multi-turn absolute encoder		SVCAB-ENB-A7-01-A-□□□L-01 ^③		P10
ASV80-A3/5-H-075-A-□-□	Rear outlet	Single-turn absolute encoder		SVCAB-ENC-A7-01-B-□□□L-01 ^②	100: 10000mm	P11
		Multi-turn absolute encoder		SVCAB-ENB-A7-01-B-□□□L-01 ^③		P12

① For special cable length requirements, please contact sales representatives for customization.
② ENC = Using encoder cable without battery, The motor can work in incremental mode or single-turn absolute mode.
③ ENB = Using encoder cable with battery, The motor can work in multi-turn absolute mode.

■ Cable Appearance Diagrams



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