YAKO AC Servo System

High Performance

AS1 Series

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YAKOTEC®

About YAKO

Company Profile

Shenzhen YAKO Automation Technology Co., Ltd. was found in 2006, located in High Technology Industry Zone of Shenzhen, China. Our technology can trace back to 1996, when we finished our first stepper driver prototype.

Now we have more than 200 employees and a factory of more than 5,000 square meters. YAKO's biggest shareholder is Shenzhen Topband Co., Ltd., which has a 273 million USD turnover in 2016 and listed in Shenzhen Stock Exchange with stock code 002139.

After 11 years of development, YAKO owns creative R&D center and well-experienced sales team. We keep on improving our management system, shortening response time and sticking with customers and market.

YAKO always keep innovating and providing high performance and reliable products as well as best service to customers. With "excellent performance and quality" for many years, YAKO successfully became one of the best known brand in Chinese market, developing into one of the fastest growing enterprises in motion control industry filed.

YAKO Shanghai

R&D Center

Headquarters

CONTENTS

[AS1 Series | Servo System]

Performance

- 50W-3KW power range
- Position,speed,torque control
- Response frequency 500Hz
- Inertia automatic recognition
- Gain automatic setting
- Mode switch
- Gain switch,P/PI switch
- 12-bit analog input
- RS485 bus，Modbus-RTU protocol
- Incremental and 17-bit absolute value motor encoder interface

Application

CNC machine, winding machine, the linear robot, wire cutting, packaging equipment, cable equipment, engraving, electronic manufacturing equipment.

Servo System Configuration

Servo Drive	Single Phase 220V		Single Phase 220V			
	 Size B				 Size C	
Servo Motor	AS1-02B	AS1-04B	AS1-08B	AS1-10B	AS1-15B	AS1-30B
						
	ASMD-04-A530B	ASMD-06-0430B	ASMJ-09-0830B	ASMD-08-0830B	ASMJ-10-1030B	ASMJ-13-1325B	ASMJ-13-2025B
	ASMD-04-0130B	ASMJ-06-0430B	ASMD-06-0630B	ASMJ-08-0830B	ASMJ-11-0820B	ASMJ-13-1525B	ASMJ-13-2625B
	ASMD-06-0230B	CSMT-02B	CSMT-04B	ASMJ-08-1030B	ASMJ-11-1230B	ASMH-13-1010B	ASMH-13-1315B
	ASMJ-06-0230B			ASMJ-08-1025B	ASMJ-11-1530B	ASMH-13-1215B	ASMH-13-2315B
	CSMT-A5B			ASMJ-09-1025B	ASMJ-11-1830B	ASMH-13-1515B	
	CSMT-01B			CSMT-08B	ASMJ-13-1025B	ASMH-13-0915B	

Motor Naming Rules

ASMD – 08 – 10 30 B – U 1 1 1 –XX

- **ASMD** — Series
  - ASMD: Small inertia Small capacity
  - ASMJ: Big inertia Small capacity
  - ASMH: High inertia Medium capacity
  - CSMT: Super performance Small capacity
- **08** — Flange
  - 04:40mm
  - 06: 60mm
  - 08: 80mm
  - 10:100mm
  - 11: 110mm
  - 13: 130mm
- **10** — Power
  - A5: 50W
  - 01: 100W
  - 02: 200W
  - 04: 400W
  - 08: 800W
  - 10: 1KW
  - 15: 1.5KW
  - 20: 2KW
  - 30: 3KW
- **30** — Speed（rpm）
  - 10: 1000rpm
  - 15: 1500 rpm
  - 20: 2000 rpm
  - 30: 3000 rpm
- **B** — Voltage
  - B：200V
  - T：400V
- **U** — Encoder
  - U: 2500-wire incremental
  - A: 17-bit incremental
  - B: 17bit absolute
- **1** — Shaft connection
  - 1：Plain
  - 2：Solid, key
  - 3：Solid, key, screw hole
  - 4：Solid, screw hole
- **1** — Brake,oil seal
  - 1：None
  - 2：Seal
  - 3：Brake
  - 4：Seal+brake
- **1** — Design number
  - 1：Ver. 1
- **–XX** — Customization
  - Customization number

Motor Specifications

Model	rated Output （KW）	Rated Torque （Nm）	Maximum Torque （Nm）	Rated Current （Arms）	Maximum Current （Arms）	Rated Speed (min^{-1})	Maximum Speed （min^{-1}）	Rotor Inertia ($10^{-4}Kgm^2$)	Voltage （V）
Small inertia, small capacity									
ASMD-04-A530B	0.05	0.159	0.477	0.69	2.07	3000	5000	0.025	220
ASMD-04-0130B	0.1	0.318	0.954	1.27	3.81	3000	5000	0.046	220
ASMD-06-0230B	0.2	0.64	1.92	1.2	3.6	3000	5000	0.18	220
ASMD-06-0430B	0.4	1.27	3.81	2.3	6.9	3000	4000	0.30	220
ASMD-08-0830B	0.75	2.5	7.5	4.3	12.9	3000	4000	1.01	220
Big inertia, small capacity									
ASMJ-06-0230B	0.2	0.64	1.92	1.7	5.1	3000	5000	0.42	220
ASMJ-06-0430B	0.4	1.27	3.81	2.8	8.4	3000	5000	0.68	220
ASMJ-08-0830B	0.75	2.39	7.17	4.5	13.5	3000	4500	1.53	220
ASMJ-08-1025B	1.0	4.0	12.0	4.4	13.2	2500	3000	2.97	220
ASMJ-08-1030B	1.0	3.5	10.5	4.5	13.5	3000	4000	2.63	220
ASMJ-09-0830B	0.75	2.4	7.1	3.0	9.0	3000	3900	2.45	220
ASMJ-09-1025B	1.0	4.0	12.0	4.0	12.0	2500	3300	3.7	220
ASMJ-10-1030B	1.0	3.2	9.6	5.0	15.0	3000	4500	2.458	220
ASMJ-11-0820B	0.8	4.0	12.0	3.5	10.5	2000	2400	5.4	220
ASMJ-11-1230B	1.2	4.0	12.0	5.0	15.0	3000	3500	5.4	220
ASMJ-11-1530B	1.5	5.0	15.0	6.0	18.0	3000	3100	6.3	220
ASMJ-11-1830B	1.8	6.0	18.0	6.0	18.0	3000	3200	7.6	220
ASMJ-13-1025B	1.0	4.0	12.0	4.0	12.0	2500	2600	8.5	220
ASMJ-13-1325B	1.3	5.0	15.0	5.0	15.0	2500	2700	10.6	220
ASMJ-13-1525B	1.5	6.0	18.0	6.0	18.0	2500	2900	12.6	220
ASMJ-13-2025B	2.0	7.7	22	7.5	22.5	2500	2700	15.3	220
ASMJ-13-2625B	2.6	10	25	10	25	2500	2700	19.4	220
High inertia, medium capacity									
ASMH-13-0915B	0.85	5.39	13.8	6.9	18.0	1500	3000	13.9	220
ASMH-13-1010B	1.0	10.0	20.0	4.5	9.0	1000	1300	19.4	220
ASMH-13-1215B	1.2	7.7	22	5.0	15.0	1500	1800	15.3	220
ASMH-13-1315B	1.3	8.34	23.3	10.7	30.0	1500	3000	19.5	220
ASMH-13-1515B	1.5	10 .0	25 .0	6.0	15.0	1500	1800	19.4	220
ASMH-13-2315B	2.3	15 .0	30 .0	9.5	19.0	1500	1600	27.7	220
Super performance, small capacity									
CSMT-A5B	0.05	0.16	0.48	0.6	1.6	3000	5000	0.02	220
CSMT-01B	0.1	0.32	0.95	1.1	3.0	3000	5000	0.03	220
CSMT-02B	0.2	0.64	1.91	1.7	5.0	3000	5000	0.18	220
CSMT-04B	0.4	1.27	3.82	3.3	9.7	3000	5000	0.34	220
CSMT-08B	0.75	2.39	7.16	5.0	14.5	3000	5000	1.10	220

Servo Motor Dimensions

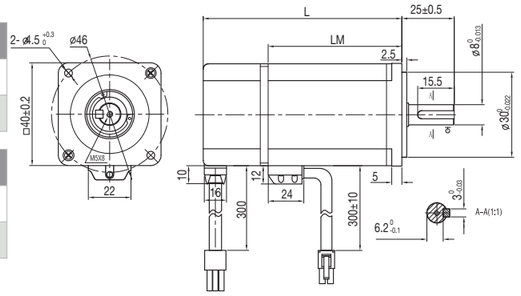
- ASMD Series Servo Motor Dimensions

40 Flange

Connector Model	Power Side	Brake	Encoder Side
Plastic shell	AMP172167-1	AMP172165-1	AMP172169-1
Terminal	AMP170360-1	AMP170359-1	AMP770835-1

Model	L
ASMD-04-A530B	84.5(117.6)
ASMD-04-0130B	102.5(135.6)

Note：（）The values in brackets indicate motor with brake

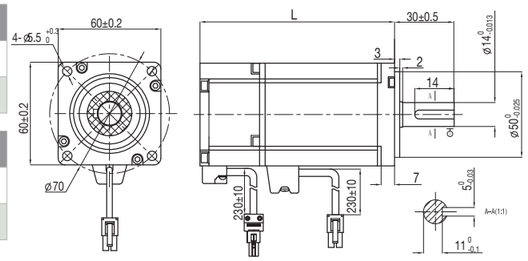


60 Flange

Connector Model	Power Side	Brake	Encoder Side
Plastic shell	AMP172167-1	AMP172165-1	AMP172169-1
Terminal	AMP170360-1	AMP170359-1	AMP770835-1

Model	L
ASMD-06-0230B	113.5(147)
ASMD-06-0430B	133(166.5)

Note：（）The values in brackets indicate motor with brake

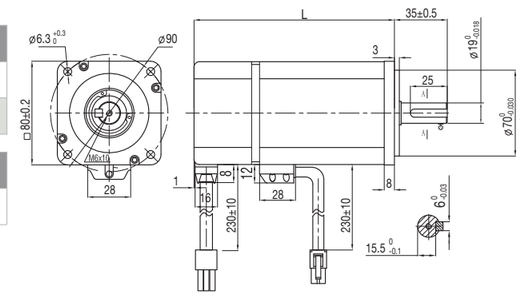


80 Flange

Connector Model	Power Side	Brake	Encoder Side
Plastic shell	AMP172167-1	AMP172165-1	AMP172169-1
Terminal	AMP170360-1	AMP170359-1	AMP770835-1

Model	L
ASMD-08-0830B	141(172.7)

Note：（）The values in brackets indicate motor with brake



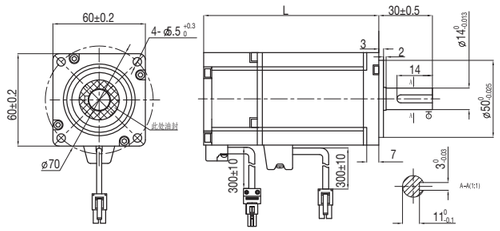
Servo Motor Dimensions

- ASMJ Series Servo Motor Dimensions

60 Flange

Connector Model	Power Side	Brake	Encoder Side
Plastic shell	AMP172167-1	AMP172165-1	AMP172169-1
Terminal	AMP170360-1	AMP170359-1	AMP770835-1

Model	L
ASMJ-06-0230B	112(144)
ASMJ-06-0430B	134(166)

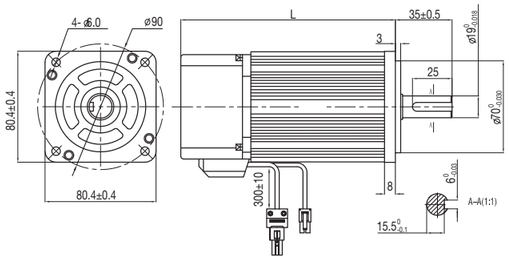


Note：（）The values in brackets indicate motor with brake

80 Flange

Connector Model	Power Side	Brake	Encoder Side
Plastic shell	AMP172167-1	AMP172165-1	AMP172169-1
Terminal	AMP170360-1	AMP170359-1	AMP770835-1

Model	L
ASMJ-08-0830B	142.2(175)
ASMJ-08-1025B	191(231)
ASMJ-08-1030B	179(219)

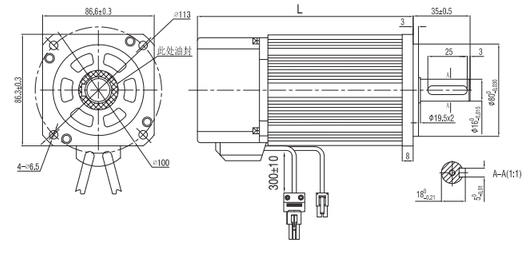


Note：（）The values in brackets indicate motor with brake

90 Flange

Connector Model	Power Side	Brake	Encoder Side
Plastic shell	AMP172167-1	AMP172165-1	AMP172169-1
Terminal	AMP170360-1	AMP170359-1	AMP770835-1

Model	L
ASMJ-09-0830B	150(198)
ASMJ-09-1025B	182(230)



Note：（）The values in brackets indicate motor with brake

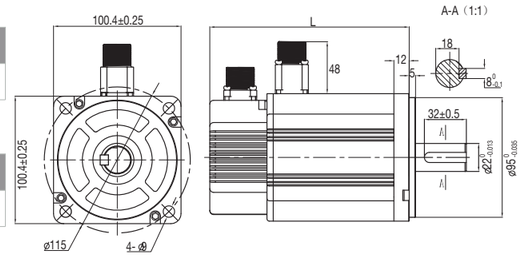
Servo Motor Dimensions

- ASMJ Series Servo Motor Dimensions

100 Flange

Connector Model	Power Side	Brake	Encoder Side
Aviation Connector	YD28J4Z	XS12-3	YD28J15Z

Model	L
ASMJ-10-1030B	153(194)

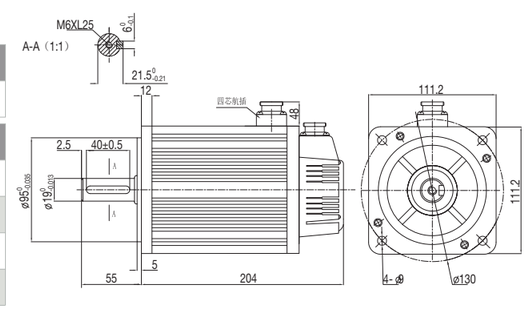


Note：（）The values in brackets indicate motor with brake

110 Flange

Connector Model	Power Side	Brake	Encoder Side
Aviation Connector	YD28J4Z	XS12-3	YD28J15Z

型号	L
ASMJ-11-0820B	189(263)
ASMJ-11-1230B	189(263)
ASMJ-11-1530B	204(278)
ASMJ-11-1830B	219(293)

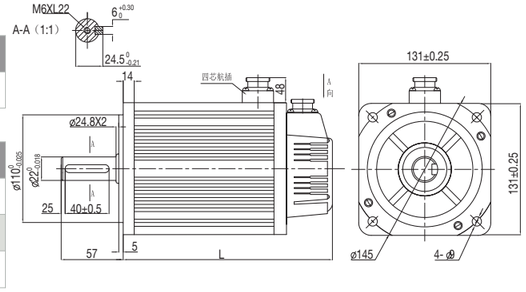


Note：（）The values in brackets indicate motor with brake

130 Flange

Connector Model	Power Side	Brake	Encoder Side
Aviation plug	YD28J4Z	XS12-3	YD28J15Z

Model	L
ASMJ-13-1025B	166(223)
ASMJ-13-1325B	171(228)
ASMJ-13-1525B	179(236)



Note：（）The values in brackets indicate motor with brake

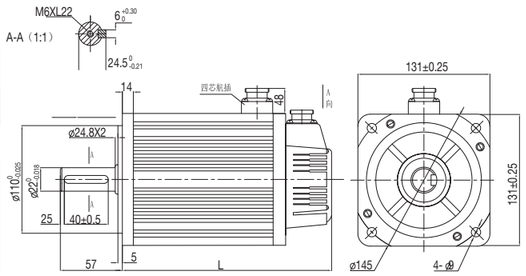
Servo Motor Dimensions

- ASMJ Series Servo Motor Dimensions

130 Flange

Connector Model	Power Side	Brake	Encoder Side
Aviation plug	YD28J4Z	XS12-3	YD28J15Z

Model	L
ASMJ-13-2025B	192(249)
ASMJ-13-2625B	209(290)



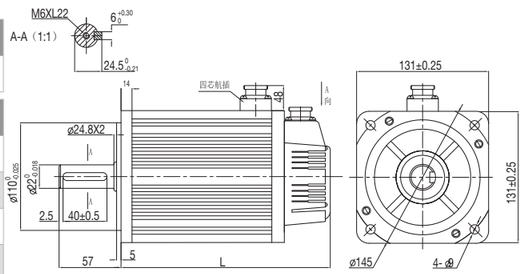
Note：（）The values in brackets indicate motor with brake

- ASMH Series Servo Motor Dimensions

130 Flange

Connector Model	Power Side	Brake	Encoder Side
Aviation plug	YD28J4Z	XS12-3	YD28J15Z

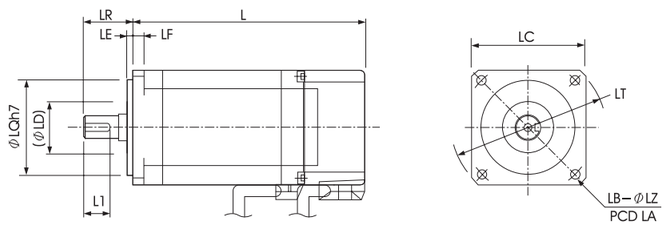
Model	L
ASMH-13-0915B	156(186)
ASMH-13-1010B	213(283)
ASMH-13-1215B	192(249)
ASMH-13-1315B	174(204)
ASMH-13-1515B	213(283)
ASMH-13-2315B	241(322)



Note：（）The values in brackets indicate motor with brake

- CSMT Series Servo Motor Dimensions

CSMT Dimension



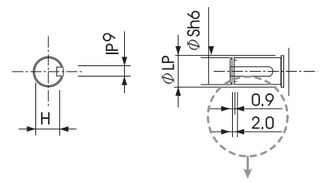
Model	L	LR	LE	LF	LH	LQ	LD	L1	L3	LC	LT	LB	LZ	LA
CSMT-A5B	59.5（95.1）	25	2.5	5	4.5	30	20	17	20	40	55	2	4.5	46
CSMT-01B	73.5（109.1）	25	2.5	5	4.5	30	20	17	20	40	55	2	4.5	46
CSMT-02B	76.1（110.7）	30	3	6	7	50	27	18	22	60	80	4	5.5	70
CSMT-04B	98.1（132.7）	30	3	6	7	50	27	18	22	60	80	4	5.5	70
CSMT-08B	145.3（108.7）	35	3	8	7	70	34	23	27	80	105	4	6.6	90

Note：（）The values in brackets indicate motor with brake

- CSMT Series Servo Motor Dimensions

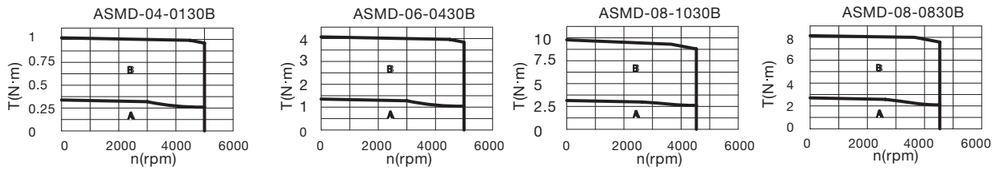
CSMT Shaft Dimension

型号	LP	S	H	I
CSMT-A5B	8.9	8	6.2	3
CSMT-01B	8.9	8	6.2	3
CSMT-02B	14	12	9.5	4
CSMT-04B	14	12	9.5	4
CSMT-08B	19.8	16	13	5

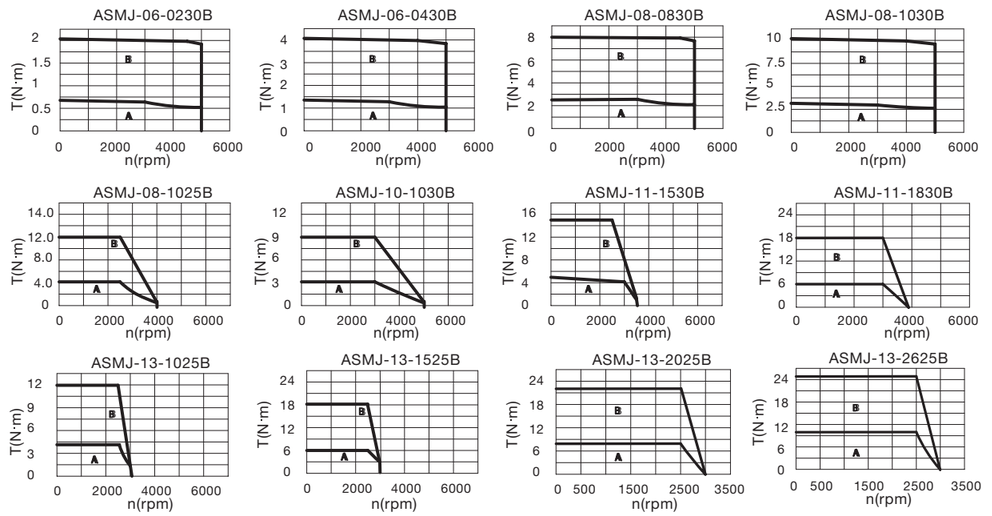


Servo Motor Torque-Speed Curve

- ASMD（Small inertia, small capacity）

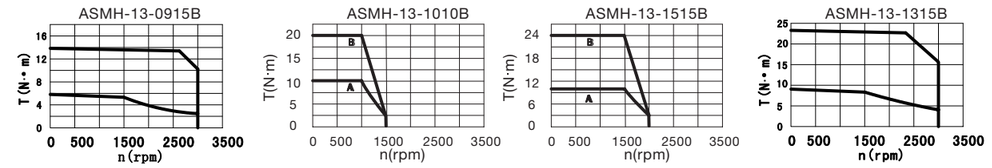


- ASMJ（Big inertia, small capacity ）

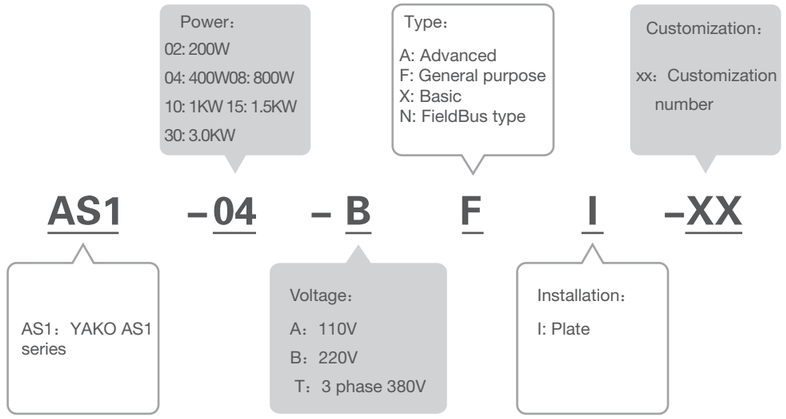


Note：A（Continuously Working），B（Temporary Working）

- ASMH（High inertia, medium capacity ）



Servo Drive Naming Rules



Servo Drive Specification

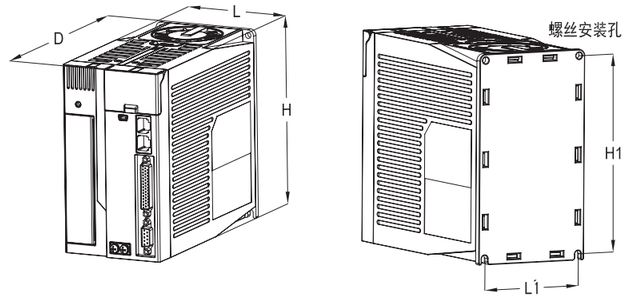
- 220V Single-Phase Drive

Spec	SIZE-B	
Drive Model AS1	AS1-02B	AS1-04B
Continuous Output Current Arms	1.6	2.8
Max Output Current Arms	5.8	10
Main Circuit Power Supply	Single phase AC220V-240V	
Control Circuit Power Supply	Single phase AC220V-240V,+10%～-15%,50/60Hz	
Regeneration Function	External braking resistor optional	

- 220V Three-Phase Drive

Spec	SIZE-B		SIZE-C	
Drive Model AS1	AS1-08B	AS1-10B	AS1-15B	AS1-30B
Continuous Output Current Arms	4	5.5	7.6	11.6
Max Output Current Arms	12	17	17	28
Main Circuit Power Supply	3 phase AC220V-240V,+10%～-15%,50/60Hz			
Control Circuit Power Supply	Single phase AC220V-240V,+10%～-15%,50/60Hz			
Regeneration Function	Built-in braking resistor			

Servo Drive Specification



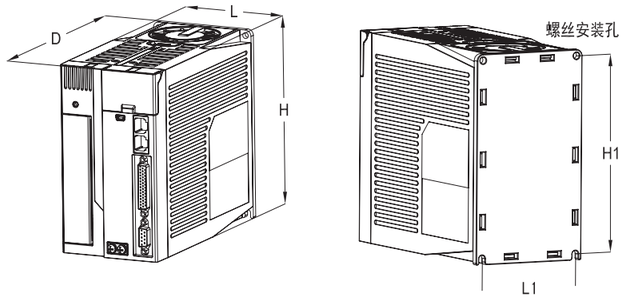
- Servo Drive Dimension

Model	L(mm)	H(mm)	D(mm)	L1(mm)	H1(mm)	D1(mm)	Screw Size
AS1 Frame C	90	160	188	80	150	75	4-M4
AS1 Frame B	58	160	177	48	150	75	

- Servo Drives Basic Specification

Spec	Power Input	220VAC	Main Power	Single phase/three phase, AC200～230V,50/60HZ
			Control Power Supply	Single phase, AC200~230V,50/60HZ
	Environment		Temperature	Working：0℃～50℃ Storage：-20℃～85℃
			Humidity	Below 0～90% RH（No dewfall）
			Altitude	Below 1000m
			Vibration/strike	<1G
			IP Rating/Contamination Rating	IP20/Contamination Rating 2
	Control Method			IGBT PWM space vector control
	Encoder			2500-wire incremental/17bit serial incremental/17bit serial absolute
	I/O Ports	IO Signal	Input	9个（General）
			Output	5个（General）
		Analog Signal	Input	2个（12bit）
			Output	2个（Analog monitor signal output）
		Pulse Signal	Input	4个（Low speed pulse, high speed pulse）
			Output	4个（3 frequency output, 1 open collector output）
	Communication		USB	Connect with PC
			RS-485	Multi-group parallel
	Panel Operator			LED display
	Regeneration Function			Built-in braking resistor for 750W and above models
	Protection Function			Overcurrent, overload, overvoltage, low voltage, over speed, overheat, encoder error, communication error, position deviation
	Control Mode			Position control; speed control; torque control;

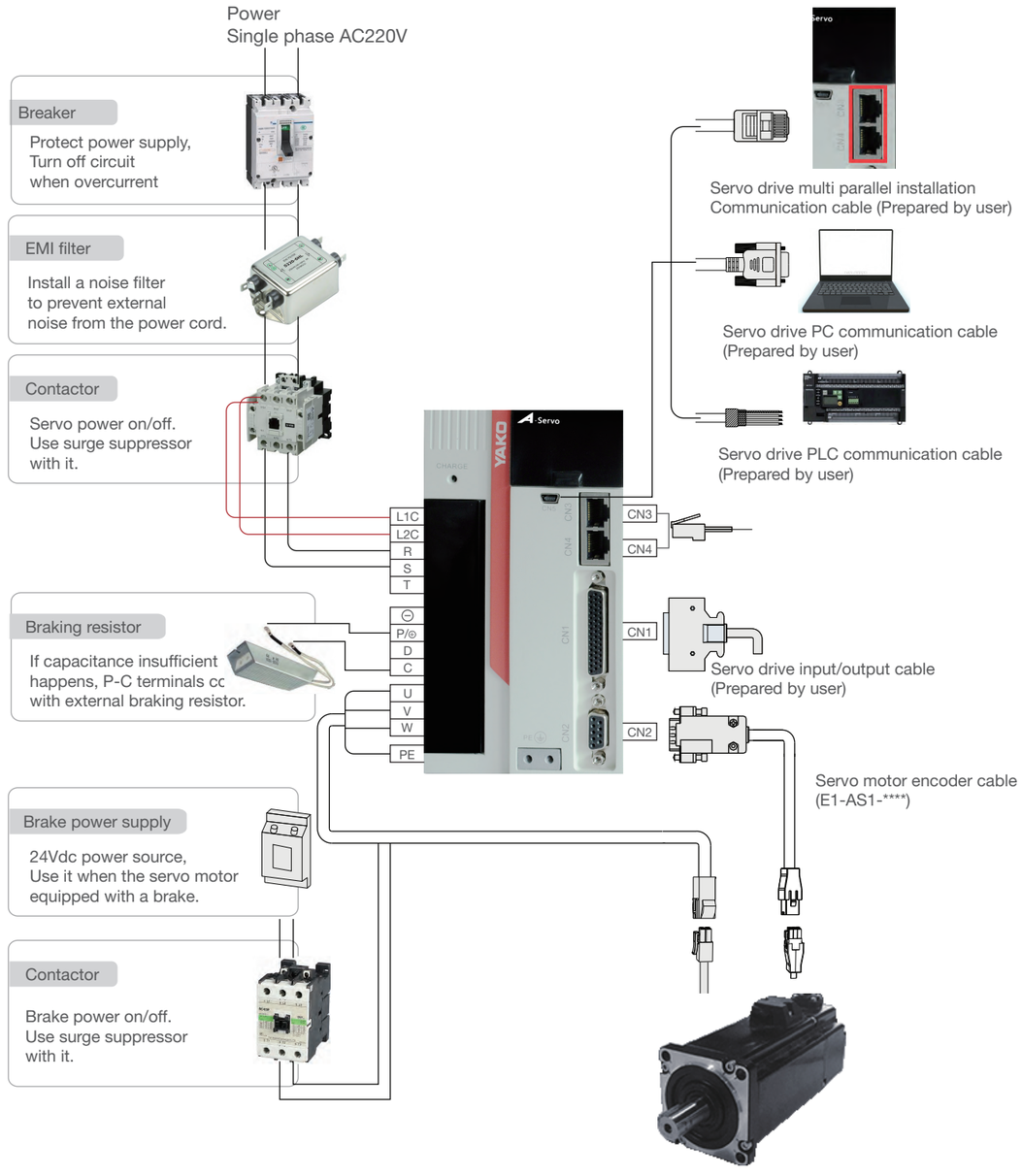
Servo Drive Specification



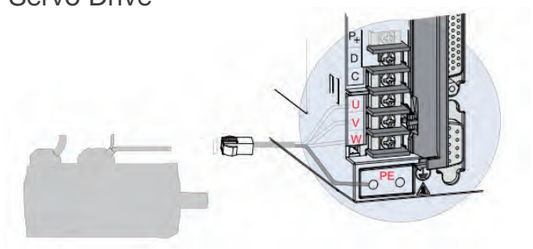
- Servo Drive Function Specification

Spec	Position Control Mode	Location Command Format	PULSE/DIR：CW/CCW：A,B Phase cross pulse
		Position Input Circuit	Line Driver：Open Collector
		Maximum Input Fequency	Line Driver low speed 500Kpps; Line Driver high speed 4Mpps;Open Collector 200Kpps
		Smoothing Filter	Smoothing treatment for position command, ensuring motor running more stable
		Electronic Gear	Two sets of electronic gear ratios available
		Vibration Suppression Filter	Effectively inhibit external signal interference and the system resonant frequency, to ensure stable operation
	Speed Control Mode	Command Form	Analog voltage command input, internal speed command
		Speed Change Fate / Voltage Fluctuation	Rated voltage ±10%：0.5%（Rated speed）
		Load Fluctuation	0-100% load：≤ 0.5%(Rated speed)
		Temperature Fluctuation	25±25℃：≤ 0.5%(Rated speed)
		Acceleration/Deceleration Setting Range	0~10S
		Analog Speed Command Input	-10V～+10V
	Torque Control Mode	Command Form	Analog torque command
		Analog Torque Command Input	-10V～+10V
	Common Spec	Self-tuning Function	Identifying inertia, rigidity tuning
		Encoder Feedback Electronic Gear	Free set
		Error Record	8 sets of historical information records

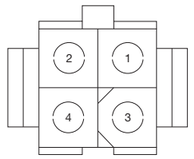
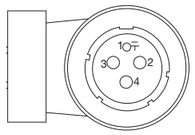
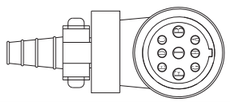
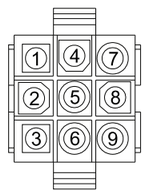
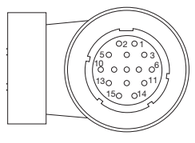
Connection of Servo Drive

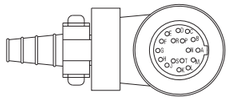


Connection of Servo Drive



- Motor Cable Connection

Connector Outline	Terminal Pin Definition		Applicable Motor
	4 Pin connector		
	Pin Number	Signal Type	40、60、80、90
	1	U	Recommend: Plastic shell：AMP-172159-1 Terminal：AMP-170362-1
	2	V	
	3	W	
	4	PE	
	4 Pin aviation plug YD28K4TS-E		
	Pin Number	Signal Type	100、110、130
	1	PE	Aviation plug: YD28K4TS-E
	2	U	
	3	V	
	4	W	
	9 Pin aviation plug SMS3102A20-18P		
	Pin Number	Signal Type	130
	B	U	Military standard aviation plug: SMS3102A20-18P
	I	V	
	F	W	
	C	PE	
	D	BR+	
	E	BR-	
	9 Pin connector		
	Pin Number	2500-Wire Signal / 17Bit Signal	40、60、80、90
	3	A+ / --	Recommend: Plastic shell：AMP-172161-1 Terminal：AMP-170361-1
	6	A- / --	
	2	B+ / SD+	
	5	B- / SD-	
	1	Z+ / BAT+	
	4	Z- / BAT-	
	9	+5V / +5V	
	8	GND / GND	
	7	PE / PE	
	15 Pin aviation plug YD28K15TS-E		
	Pin Number	2500-Wire Signal / 17Bit Signal	100、110、130
	2	+5V / +5V	Aviation plug: YD28K15TS-E
	3	GND / GND	
	4	A+ / --	
	7	A- / --	
	5	B+ / SD+	
	8	B- / SD-	
	6	Z+ / BAT+	
	9	Z- / BAT-	
	1	PE / PE	

Connector Outline	Terminal Pin Definition			Applicable Motor
	17pin aviation plug SMS3102A20-29P			
	Pin Number	2500-Wire Signal	17Bit Signal	130
	A	+5V	+5V	Military standard aviation plug: SMS3102A20-29P
	B	GND	GND	
	C	A+	--	
	D	A-	--	
	E	B+	SD+	
	F	B-	SD-	
	G	PE	PE	
	J	Z+	BAT+	
	K	Z-	BAT-	

Connection Port of Servo Drive

- Servo Drive Wiring Main Circuit Terminal Definition

Terminal Name	Terminal Mark	Spec.
Main Circuit Power Input Terminal	R、S	Single-phase power input, input according to specifications
	R、S、T	Three-phase power input
Control Circuit Power Input Terminal	L1C、L2C	Control circuit power, input according to the specifications
External Regenerative Resistor Connection Terminal	P⊕、D、C	External regenerative resistor
DC Bus Terminals	P⊕、⊖	
Servo Motor Connection Terminal	U、V、W	Servo motor connection terminal
Ground Terminal	PE	Two ground terminals, be sure to connect the entire system to ground

- Servo Drive Wiring CN1 Control Terminal Definition

Definition		Pin	Spec.	
Position Command	PULS+	41	Low speed pulse command（below 500Kpps）: Pulse、CW、A Phase	Differential drive input or open collector input
	PULS-	43	Low speed pulse command（below 500Kpps）: Pulse、CW、A Phase	
	SIGN+	37	Low speed pulse command（below 500Kpps）: Dir、CCW、B Phase	
	SIGN-	39	Low speed pulse command（below 500Kpps）: Dir、CCW、B Phase	
	HPULS+	42	High-speed pulse command input, differential inputs required	
	HPULS-	36	High-speed pulse command input, differential inputs required	
	HSIGN+	38	High-speed pulse direction input, differential inputs required	
	HSIGN-	40	High-speed pulse direction input, differential inputs required	
	PULLHI	35	COM+，Power input port, internal connected with current limiting resistor	
	GND	29	Differential signal ground	
Encoder Output	PAO+	21	Encoder pulse frequency division output	
	PAO-	22	Encoder pulse frequency division output	
	PBO+	25	Encoder pulse frequency division output	
	PBO-	23	Encoder pulse frequency division output	
	PZO+	13	Encoder pulse frequency division output	
	PZO-	24	Encoder pulse frequency division output	

Connection of Servo Drive

- Servo Drive Wiring Main Circuit Terminal Definition

Encoder Output	PZ-OUT	44	Origin pulse open collector output	
	GND	29	Origin pulse open collector output signal ground; differential signal ground	
	+5V	15	Internal 5V power supply, maximum output 200mA	
	GND	16	Internal 5V power supply, maximum output 200mA	
	PE	Shell		
Analog Signal Input	AI1	20	Speed, torque analog command input, max ± 12V	
	AI2	18	Speed, torque analog command input, max ± 12V	
	GND	19	Analog signal ground	
General I/O Signal			Default Function	Function Description
	DI1	9	P-OT	Forbid forward drive
	DI2	10	N-OT	Forbid reverse drive
	DI3	34	INHIBIT	Forbid pulse
	DI4	8	ALM-RST	Alarm reset
	DI5	33	S-ON	Servo enable
	DI6	32	ZCLAMP	Zero fixed
	DI7	31	GAIN-SEL	Gain switching
	DI8	30	Home Switch	Origin switch
	DI9	12	Reserved	N/A
	+24V	17		Internal 24 power supply, voltage range +20 ~ 28V, maximum output current 200mA
	COM-	14		Internal 24V ground; open collector pulse input ground;
	COM+	11		Power input, 12~24V
	DO1+	7	S-RDY+	Servo ready
	DO1-	6	S-RDY-	Servo ready
	DO2+	5	COIN+	Position OK
	DO2-	4	COIN-	Position OK
	DO3+	3	ZERO+	Zero speed
	DO3-	2	ZERO-	Zero speed
	DO4+	1	ALM+	Fault output
	DO4-	26	ALM-	Fault output
	DO5+	28	WAN+	Warning output
	DO5-	27	WAN-	Warning output

Connection of Servo Drive

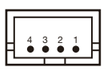
- CN2 Encoder Terminal Definition Encoder Cable Servo Drive Side Terminal Definition

PIN	2500-wire Encoder Signal	17Bit Encoder Signal	Functional Description
1	A+	-	Encoder signal
2	A-	-	Encoder signal
3	B+	SD+	Encoder signal
4	B-	SD-	Encoder signal
5	Z+	-	Encoder signal
6	Z-	-	Encoder signal
7	+5V	+5V	Encoder + 5V power output
8	0V	0V	Encoder power ground output
9	Reserved	-	
Shell	PE	PE	

- CN3, CN4 Communication Terminal Definition

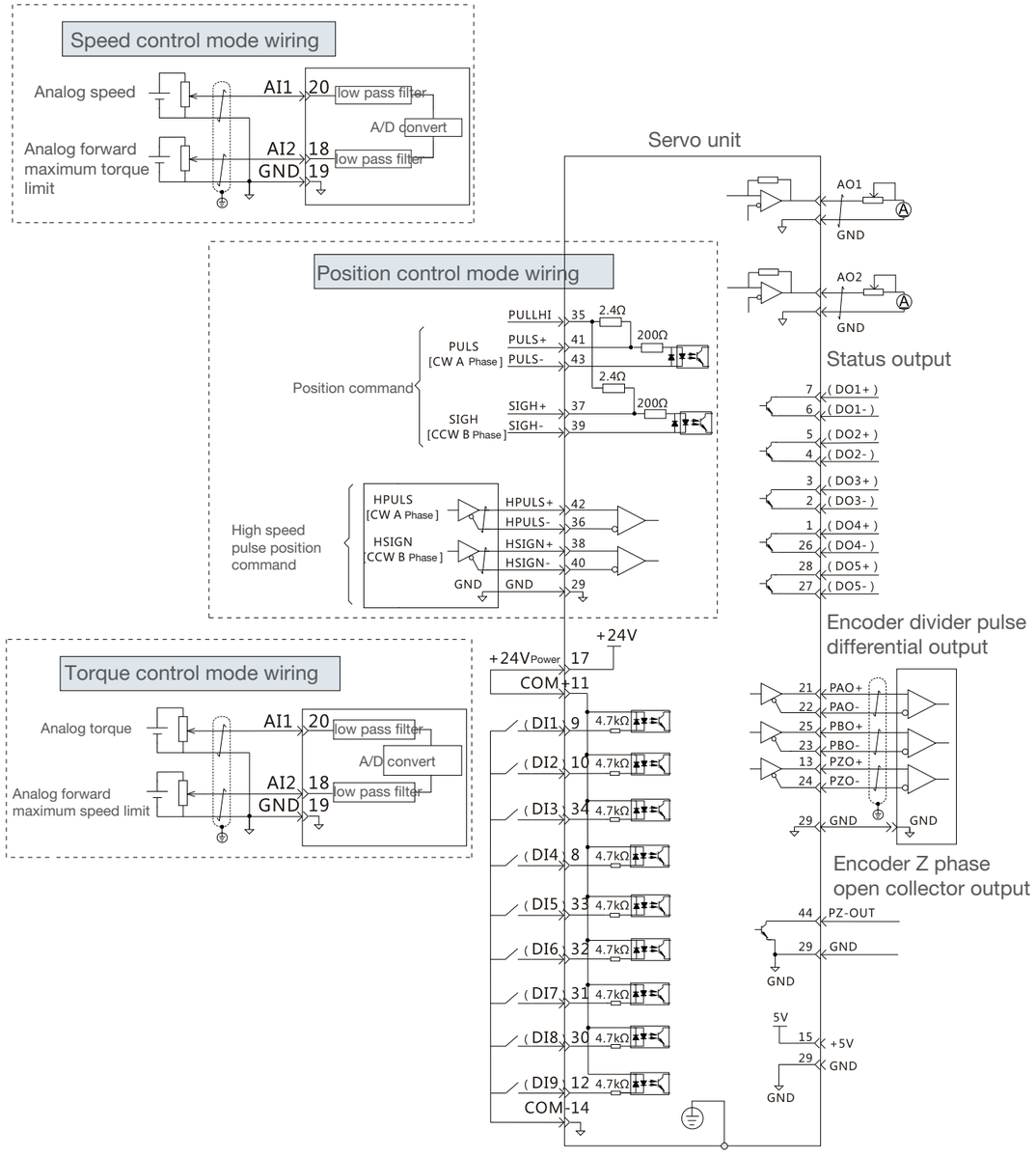
PIN	Definition	Function	PIN Array
1	--	-	
2	--	-	
3	GND-ISO	-	
4	RS485+	RS485 Communication Port	
5	RS485+	-	
6	--	-	
7	--	-	
8	--	-	
Shell	PE	-	

- CN6 Analog Output Terminal Definition

PIN Number	1	2	3	4	
Signal Name	GND	AO1	GND	AO2	

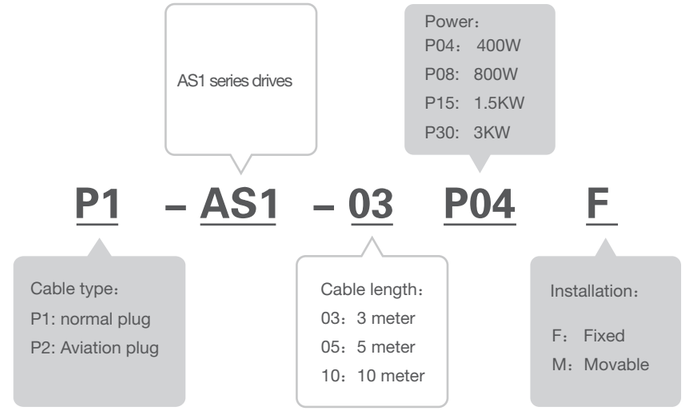
Control Mode Wiring

- Position Mode, Speed mode, Torque mode

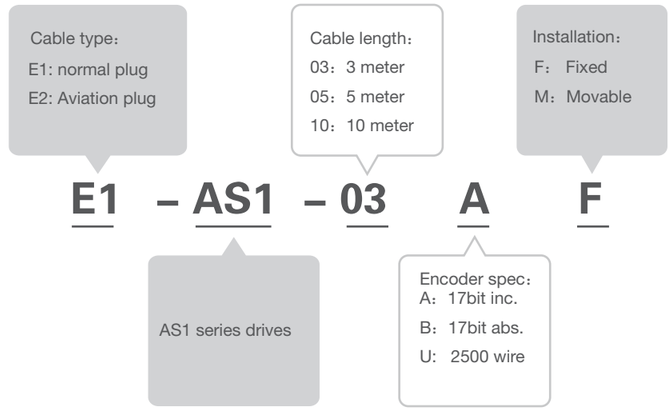


Matching Cable

- Motor Power Cable Naming Rules

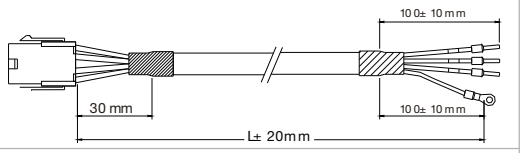
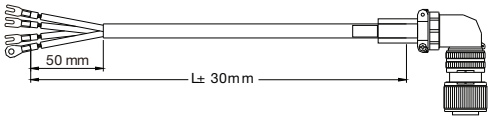
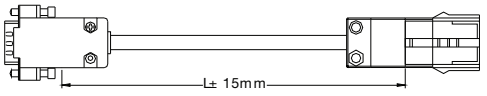
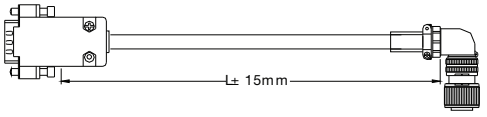


- Motor Encoder Cable Naming Rules



Control Mode Wiring

- Motor Power Cable Naming Rules

Cable Name	Model	Length(mm)	SIZE-C
Power Cable	P1-AS1-03P04F	3000	
	P1-AS1-05P04F	5000	
	P1-AS1-10P04F	10000	
	P1-AS1-03P08F	3000	
	P1-AS1-05P08F	5000	
	P1-AS1-10P08F	10000	
	P2-AS1-03P15F	3000	
	P2-AS1-03P30F	3000	
	P2-AS1-05P15F	5000	
	P2-AS1-05P30F	5000	
	P2-AS1-10P15F	10000	
	P2-AS1-10P30F	10000	
Encoder Cable	E1-AS1-03UF	3000	
	E1-AS1-05UF	5000	
	E1-AS1-10UF	10000	
	E2-AS1-03UF	3000	
	E2-AS1-05UF	5000	
	E2-AS1-10UF	10000	

Brake Resistance Specification

Servo drive model		Built-in brake resistor spec		Minimum resistance (Ω)	The maximum braking energy capacitor can absorb(J)
		resistance (Ω)	capacity (W)		
Single-Phase 220V	AS1-01BFI	-	-	50	9
	AS1-02BFI	-	-	50	9
	AS1-04BFI	-	-	45	18
Single-Phase 220V Three-Phase 220V	AS1-08BFI	50	50	40	26
	AS1-10BFI	25	80	20	26
Three-Phase 220V	AS1-15BFI	25	80	15	47
	AS1-30BFI	25	80	15	47