



DELTA ELECTRONICS, INC.

[www.delta.com.tw/industrialautomation](http://www.delta.com.tw/industrialautomation)

### ASIA

#### Delta Electronics, Inc.

##### Taoyuan

31-1, Xingbang Road, Guishan Industrial Zone,  
Taoyuan County 33370, Taiwan, R.O.C.  
TEL: 886-3-362-6301 / FAX: 886-3-362-7267

#### Delta Electronics (Jiang Su) Ltd.

##### Wujiang Plant3

1688 Jiangxing East Road,  
Wujiang Economy Development Zone,  
Wujiang City, Jiang Su Province,  
People's Republic of China (Post code: 215200)  
TEL: 86-512-6340-3008 / FAX: 86-769-6340-7290

#### Delta Electronics (Japan), Inc.

##### Tokyo Office

Delta Shibadaimon Building, 2-1-14 Shibadaimon,  
Minato-Ku, Tokyo, 105-0012, Japan  
TEL: 81-3-5733-1111 / FAX: 81-3-5733-1211

#### Delta Electronics (Korea), Inc.

234-9, Duck Soo BD 7F, Nonhyun-dong, Kangnam-ku,  
Seoul, Korea Post code : 135-010  
TEL: 02-515-5305 / FAX: 02-515-5302

#### Delta Electronics (Singapore) Pte. Ltd.

8 Kaki Bukit Road 2, #04-18 Ruby Warehouse Complex,  
Singapore 417841  
TEL: 65-6747-5155 / FAX: 65-6744-9228

#### Delta Energy Systems (India) Pvt. Ltd.

Plot No. 27 & 31, Sector-34, EHTP,  
Gurgaon-122001 Haryana, India  
TEL: 91-124-4169040 / FAX: 91-124-4036045

### AMERICA

#### Delta Products Corporation (USA)

##### Raleigh Office

P.O. Box 12173, 5101 Davis Drive,  
Research Triangle Park, NC 27709, U.S.A.  
TEL: 1-919-767-3813 / FAX: 1-919-767-3969

### EUROPE

#### Deltronics (The Netherlands) B.V.

##### Eindhoven Office

De Witbogt 15, 5652 AG Eindhoven, The Netherlands  
TEL: 31-40-2592850 / FAX: 31-40-2592851

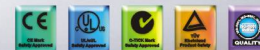
\*We reserve the right to change the information in this catalogue without prior notice.



DELTA ELECTRONICS, INC.

# ASDA-AB

## DELTA ASDA-AB AC Servo System



# AC Servo System

# ASDA-AB

## Features



### Complete Functionality

#### Suitable for wide variety of applications

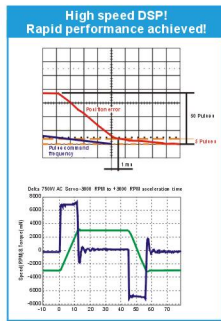
- Built-in Position/Speed/Torque modes.
- Dual control modes.
- Speed / Torque Limit Operation
- Multi-groups of electronic gear ratio
- External JOG function.
- User-defined digital inputs and outputs

#### Excellent Performance

- Motor settling time below 1msec
- Speed responsiveness characteristic: 450Hz
- Great stability and performance at low speed: less than 0.5% error at 1r/min per rotation, 10ms acceleration time from -3000 r/min to 3000 r/min when running without load.

#### Modbus Communication

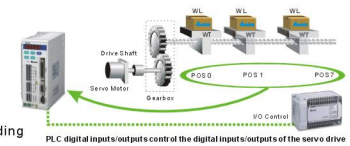
- Built-in RS-485/RS-422/RS-232 communication interface.
- Qualified to set target position and speed via communication settings.
- Capable of multi-axis connections by using RS-485/RS-422.



### Built-in Powerful Position Control Function

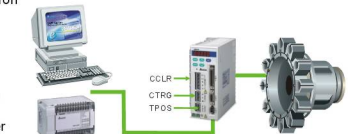
#### Able to eliminate external controller

- Selectable absolute and incremental encoder.
- User-defined acceleration and deceleration curve.
- Built-in homing function.
- JOG mode and position teaching feature.



#### Single-axis position control

- 8 internal memorized position settings and 8 corresponding moving speeds, capable of planning 8 positions freely.
- When performing position control function via communication, the users can change the internal position commands and moving speeds on-line and control an unlimited number of positions.



#### Feed step control

- PC-based controller and PLC can achieve the functions of feed step control, torque auto-reduction, and position error clear via communication or digital I/O signals.
- Auto-zeroing function is able to greatly reduce the power consumption and improve the motor overheat problem caused by the mechanical engagement error during positioning.
- Major applications: Cutting Control of Machining Center, Rotary Indexing Machine, Feeding Machine.

### ASDA-Soft Servo Software

New version of ASDA-Soft servo software has a better interface and is built-in with more functions, greatly enhancing the handiness of the software and considerably shortening the time for the users to get used to ASDA-Soft.

#### Select Servo Drive

- Auto-detect communication protocol
- Communication protocol quick setting
- Multi-language selection

#### Read/Write Parameters

- Support different version of servo drive
- Provide on-line parameter explanation
- Built-in version conversion function

#### Choose Control Mode

- Fast control mode selection
- Graphical and easy parameters settings
- Shorten the time of learning the product

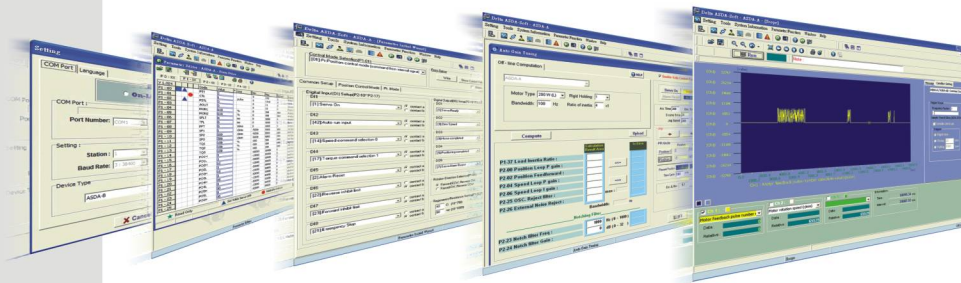
#### Adjust Gain Settings

- Auto gain tuning for convenient gain adjustment
- Manual gain tuning for calculating responsiveness and inertia
- FFT monitor function to suppress mechanical resonant

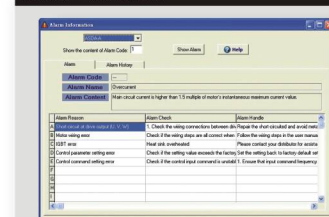
#### Monitor Operation

- Digital oscilloscope feature, able to monitor three channels of signals.
- Support continue scope and trigger scope function

#### Complete Tuning



#### Other Function:



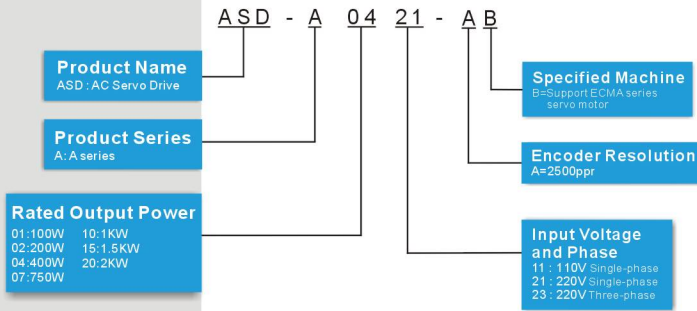
- Real-time alarm information display.

# AC Servo System

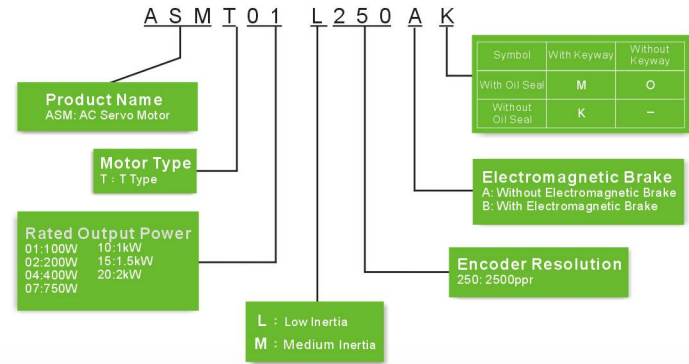
# ASDA-AB

## Model Name Explanation

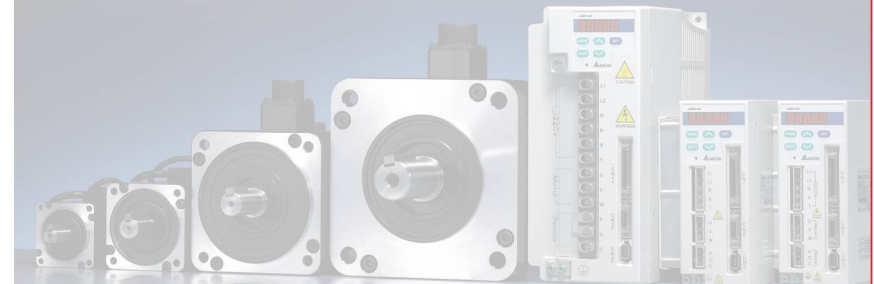
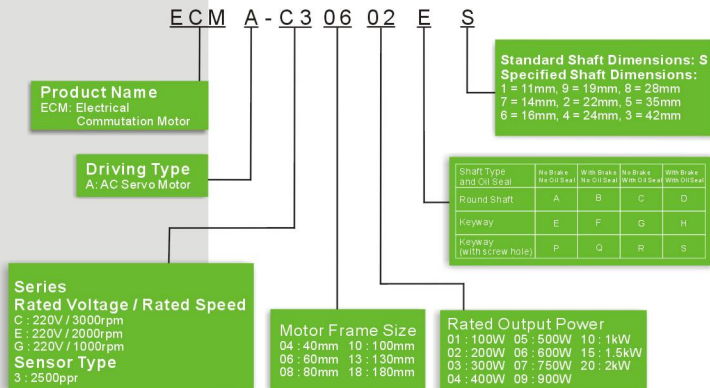
### ASDA-AB Series Servo Drive



### ASMT Series Servo Motor



### ECMA Series Servo Motor



# AC Servo System

## Servo Drive and Servo Motor Combinations

# ASDA-AB

Power	Servo Drive	Servo Motor (ECMA Series)	Servo Motor (ASMT Series)
100W	ASD-A0121-AB ASD-A0111-AB	ECMA-C30401□S(S=8mm)	ASMT01L250□□
200W	ASD-A0221-AB ASD-A0211-AB	ECMA-C30602□S(S=14mm)	ASMT02L250□□
400W	ASD-A0421-AB ASD-A0411-AB	ECMA-C30604□S(S=14mm) ECMA-C30804□7(S=14mm) ECMA-E31305□S(S=22mm) ECMA-G31303□S(S=22mm)	ASMT04L250□□
750W	ASD-A0721-AB	ECMA-C30807□S(S=19mm) ECMA-G31306□S(S=22mm)	ASMT07L250□□
1000W	ASD-A1021-AB	ECMA-C31010□S(S=22mm) ECMA-E31310□S(S=22mm) ECMA-G31309□S(S=22mm)	ASMT10L250□□ ASMT10M250□□
1500W	ASD-A1521-AB	ECMA-E31315□S(S=22mm)	ASMT15M250□□
2000W	ASD-A2023-AB	ECMA-C31020□S(S=22mm) ECMA-E31320□S(S=22mm) ECMA-E31820□S(S=35mm)	ASMT20L250□□ ASMT20M250□□

Note: □ The boxes in the model names are for optional configurations (brake, shaft type and oil seal).

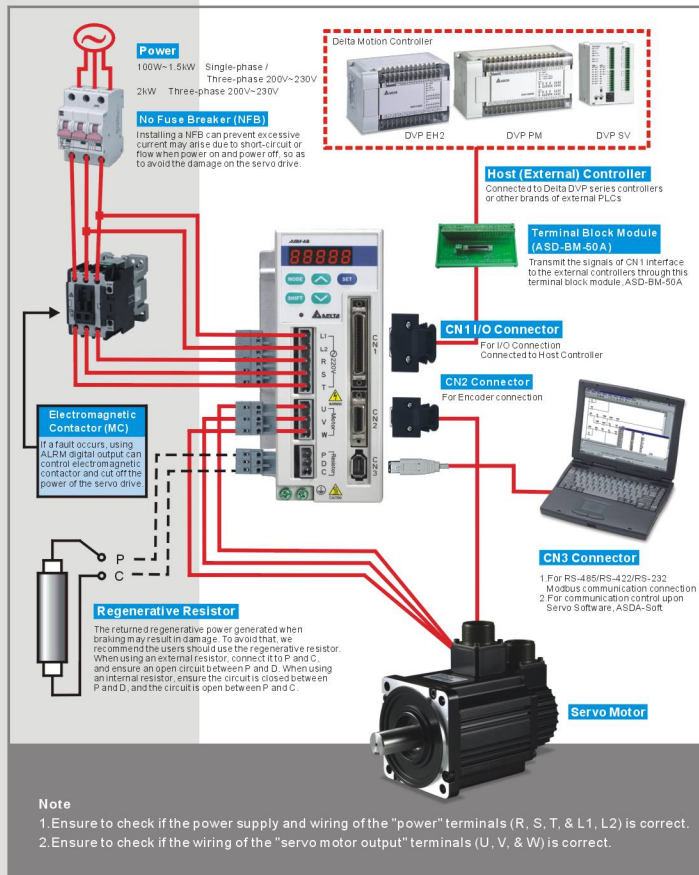


# AC Servo System

## Configuration and Specifications



### System Configuration



### Specifications of Servo Drive (ASDA-AB Series)

ASDA-AB Series	100W	200W	400W	100W	200W	400W	750W	1kW	1.5kW	2kW
	01	02	04	01	02	04	07	10	15	20
Power supply	Phase / Voltage			Single-phase 110VAC			Three-phase or Single-phase 220VAC			
	Permissible Voltage Range			Single-phase: 100-10%~115+10%VAC			Three-phase: 170~255VAC, Single-phase: 200~255VAC			
	Permissible Frequency Range			60 / 60 Hz ± 5%						
Cooling System			Natural Air Circulation						Fan Cooling	
Encoder Resolution / Feedback Resolution			2500ppr / 10000ppr							
Control of Main Circuit			SVPWM Control							
Tuning Modes			Easy / Auto / Manual							
Dynamic Brake			Built-in							
Max. Input Pulse Frequency			Max. 500kpps (Line driver) / Max. 200kpps (Open collector)							
Pulse Type			Pulse + Direction, A phase + B phase, CCW pulse + CW pulse							
Command Source			External pulse train / Internal parameters							
Smoothing Strategy			Low-pass and P-curve filter							
Electronic Gear			Electronic gear N/M Multiple N: 1~32767, M: 1/32767 (1/50-N/M<200)							
Torque Limit Operation			Set by parameters							
Feed Forward Compensation			Set by parameters							
Voltage Range			0~±10Vdc							
Analog Input Command			Input Resistance		10K Ω					
			Time Constant		2.2 μs					
Speed Control Range*1			1.5000							
Command Source			External analog signal / Internal parameters							
Smoothing Strategy			Low-pass and S-curve filter							
Torque Limit Operation			Set by parameters or via Analog input							
Responsiveness Characteristic			Maximum 450Hz							
Speed Fluctuation Rate*2			0.01% or less at load fluctuation 0 to 100% (at rated speed)		0.01% or less at power fluctuation ±10% (at rated speed)					
			0.01% or less at ambient temperature fluctuation 0°C to 55°C (32°F to 131°F) (at rated speed)		0.01% or less at ambient temperature fluctuation 0°C to 55°C (32°F to 131°F) (at rated speed)					
Analog Input Command			Voltage Range		0~±10Vdc					
			Input Resistance		10K Ω					
			Time Constant		2.2 μs					
Command Source			External analog signal / Internal parameters							
Smoothing Strategy			Low-pass filter							
Speed Limit Operation			Parameter Setting or via Analog input							
Analog Monitor Output			Monitor signal can set by parameters (Output voltage range: ±5V)							
Digital Input/Output			Input		Servo On, Reset, Gain switching, Pulse clear, Zero speed CLAMP, Speed / Torque limit enabled, Emergency stop, Forward / Reverse inhibit limit, Position / Speed mode switching, Speed / Torque mode switching, Torque / Position mode switching, Feed step selection input, Feed step mode input, Auto run input, Electronic gear ratio (Numerator) selection					
			Output		Encoder signal output (A, B, Z Line Driver / Z Open collector)					
Protective Functions			Servo ready, Servo On, At Zero speed, At Speed reached, At Positioning completed, At Torques limit, Servo alarm (Servo fault) activated, Electromagnetic brake control, Homing completed, Output overload warning, Servo warning activated, Internal position command completed							
			Overcurrent, Overvoltage, Undervoltage, Motor overheated, Regeneration error, Overload, Overspeed, Abnormal pulse control command, Excessive deviation, Watch dog execution time out, Encoder error, Adjustment error, Emergency stop activated, Reverse/Forward limit switch error, Memory error, DSP communication error, Serial communication error, Input power phase loss, Serial communication time out, Command write-in error, short circuit protection of U, V, W, and CN1, CN2, CN3 terminals							
Communication Interface			RS-232 / RS-485 / RS-422							
Installation Site			Indoor location (free from direct sunlight), no corrosive liquid and gas (far away from oil mist, flammable gas, dust)							
Altitude			1000m or lower above sea level							
Atmospheric pressure			86kPa~106kPa							
Operating Temperature			0°C to 55°C (32°F to 131°F) (if operating temperature is above specified range, forced cooling will be required)							
Storage Temperature			-20°C~85°C (-4°F to 149°F)							
Humidity			0~90% (non-condensing)							
Vibration			9.80665m/s² (1G), less than 20Hz, 5.88m/s² (0.6G) 20 to 50Hz							
IP Rating			IP20							
Power System			TN System*3							
Approvals										

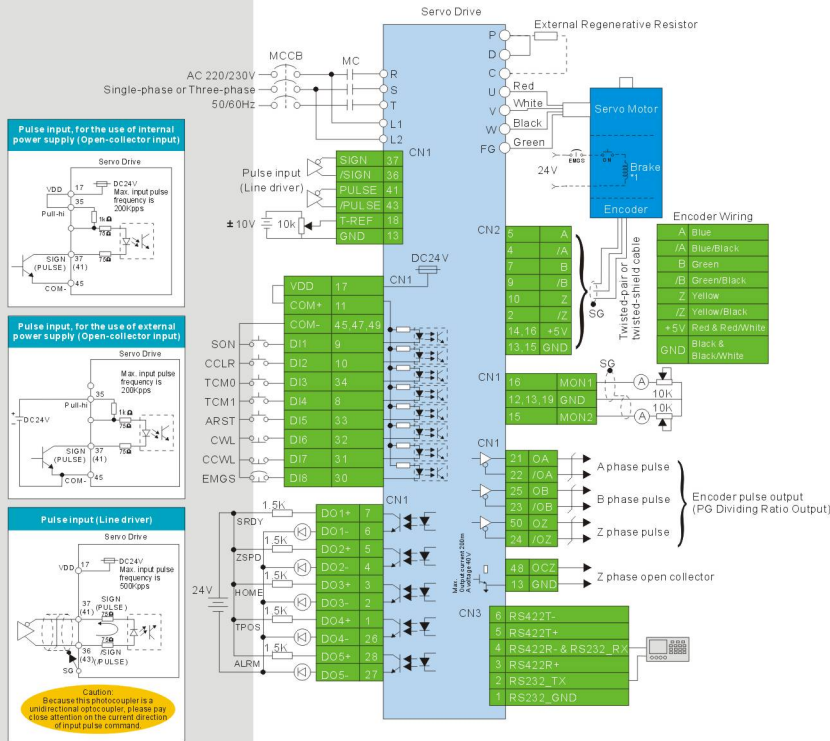
\*1 Rated rotation speed: When full load, speed ratio is defined as the minimum speed (the motor will not pause).  
\*2 When command is rated rotation speed, the speed fluctuation rate is defined as: (Empty load rotation speed) / (Rated rotation speed)  
\*3 TN system: A power distribution system having one point directly earthed, the exposed conductive parts of the installation being connected to that point by protective earthing conductor.

# AC Servo System

# ASDA-AB

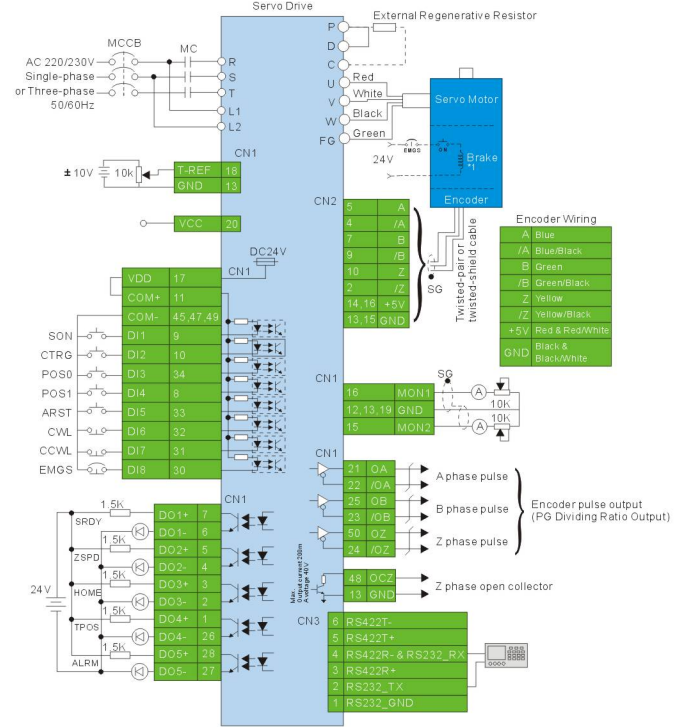
## Standard Connections

### Position (Pt) Control Mode



NOTE:  
\*1. The coil of brake has no polarity.

### Position (Pr) Control Mode



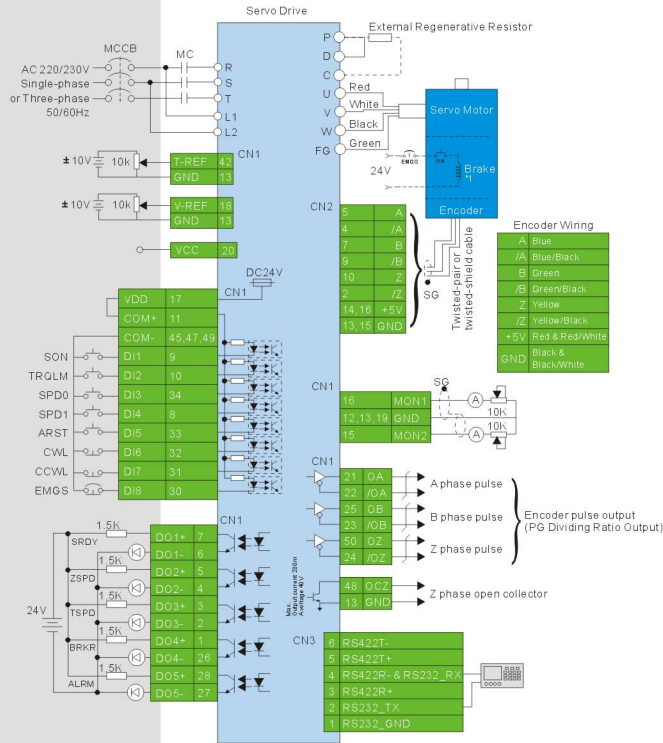
NOTE:  
\*1. The coil of brake has no polarity.

# AC Servo System

# ASDA-AB

## Standard Connections

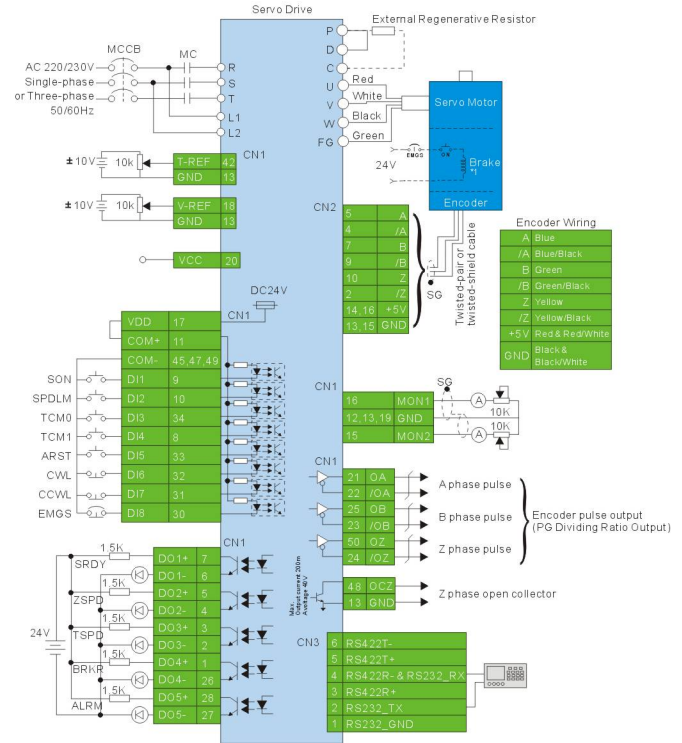
### Speed (S) Control Mode



NOTE:

\*1. The coil of brake has no polarity.

### Torque (T) Control Mode



NOTE:

\*1. The coil of brake has no polarity.





# AC Servo System

## Specifications of Servo Motor



# ASDA-AB



### (ECMA) Low Inertia Servo Motor Specifications

Model: ECMA Series	C304		C306		C308		C310	
	01	02	04	04	07	10	20	
Rated output power (kW)	0.1	0.2	0.4	0.4	0.75	1.0	2.0	
Rated torque (N-m)	0.32	0.64	1.27	1.27	2.39	3.18	6.37	
Maximum torque (N-m)	0.96	1.92	3.82	3.82	7.16	9.54	19.11	
Rated speed (r/min)	3000							
Maximum speed (r/min)	5000							
Rated current (A)	0.9	1.55	2.6	2.6	5.1	7.3	12.05	
Maximum current (A)	2.7	4.65	7.8	7.8	15.3	21.9	36.15	
Power rating (kW/s) (without brake)	27.7	22.4	57.6	24.0	50.4	38.1	90.6	
Rotor moment of inertia (kg.m <sup>2</sup> ) (without brake)	0.037E-4	0.177E-4	0.277E-4	0.68E-4	1.13E-4	2.65E-4	4.45E-4	
Mechanical time constant (ms) (without brake)	0.75	0.80	0.53	0.74	0.63	0.74	0.61	
Torque constant-KT (N-m/A)	0.36	0.41	0.49	0.49	0.47	0.43	0.53	
Voltage constant-KE (mV/(r/min))	13.6	16	17.4	18.5	17.2	16.8	19.2	
Armature resistance (Ohm)	9.3	2.79	1.55	0.93	0.42	0.20	0.13	
Armature inductance (mH)	24	12.07	6.71	7.39	3.53	1.81	1.50	
Electrical time constant (ms)	2.58	4.3	4.3	7.96	8.37	9.3	11.4	
Insulation class	Class A (UL), Class B (CE)							
Insulation resistance	100MΩ, DC 500V							
Insulation strength	AC 1500V, 60 seconds							
Weight (kg) (without brake)	0.5	1.2	1.6	2.1	3.0	4.3	6.2	
Weight (kg) (with brake)	-	1.5	2.0	2.9	3.8	4.7	7.2	
Max. radial shaft load (N)	78.4	196	196	245	245	490	490	
Max. thrust shaft load (N)	39.2	68	68	98	98	98	98	
Power rating (kW/s) (with brake)	-	21.3	53.8	22.1	48.4	30.4	82	
Rotor moment of inertia (Kg.m <sup>2</sup> ) (with brake)	-	0.192E-4	0.30E-4	0.73E-4	1.18E-4	3.33E-4	4.953E-4	
Mechanical time constant (ms) (with brake)	-	0.85	0.57	0.78	0.65	0.93	0.66	
Brake holding torque [Nt-m (min)]	-	1.3	1.3	2.5	2.5	12	12	
Brake power consumption (at 20°C) [W]	-	7.2	7.2	8.5	8.5	19.4	19.4	
Brake release time [ms (Max)]	-	10	10	10	10	10	10	
Brake pull-in time [ms (Max)]	-	70	70	70	70	70	70	
Vibration grade (um)	15							
Operating temperature	0°C to 40°C (32°F to 104°F)							
Storage temperature	-10°C to 80°C (-14°F to 176°F)							
Operating humidity	20% to 90% RH (non-condensing)							
Storage humidity	20% to 90% RH (non-condensing)							
Vibration capacity	2.5G							
IP rating	IP65 (when waterproof connectors are used, or when an oil seal is used to be fitted to the rotating shaft (an oil seal model is used))							
Approvals	 							

### (ECMA) Medium / High Inertia Servo Motor Specifications

Model: ECMA Series	E313				E318		G313		
	05	10	15	20	20	03	06	09	
Rated output power (kW)	0.5	1.0	1.5	2.0	2.0	0.3	0.6	0.9	
Rated torque (N-m)	2.39	4.77	7.16	9.55	9.55	2.86	5.73	8.59	
Maximum torque (N-m)	7.16	14.3	21.48	28.65	28.65	8.59	17.19	21.48	
Rated speed (r/min)	2000				1000				
Maximum speed (r/min)	3000				2000				
Rated current (A)	2.9	5.6	8.3	11.01	11.22	2.5	4.8	7.5	
Maximum current (A)	8.7	16.8	24.9	33.03	33.66	7.5	14.4	22.5	
Power rating (kW/s) (without brake)	7.0	27.1	45.9	62.5	26.3	10.0	39.0	66.0	
Rotor moment of inertia (kg.m <sup>2</sup> ) (without brake)	8.17E-4	8.41E-4	11.18E-4	14.59E-4	34.68E-4	8.17E-4	8.41E-4	11.18E-4	
Mechanical time constant (ms) (without brake)	1.91	1.51	1.10	0.96	1.62	1.84	1.40	1.06	
Torque constant-KT (N-m/A)	0.83	0.85	0.87	0.87	0.85	1.15	1.19	1.15	
Voltage constant-KE (mV/(r/min))	30.9	31.9	31.8	31.8	31.4	42.5	43.8	41.6	
Armature resistance (Ohm)	0.57	0.47	0.26	0.174	0.119	1.06	0.82	0.43	
Armature inductance (mH)	7.39	5.99	4.01	2.76	2.84	14.29	11.12	6.97	
Electrical time constant (ms)	12.96	12.88	15.31	15.86	23.87	13.55	13.50	16.06	
Insulation class	Class A (UL), Class B (CE)								
Insulation resistance	100MΩ, DC 500V								
Insulation strength	AC 1500V, 60 seconds								
Weight (kg) (without brake)	6.8	7	7.5	7.8	13.5	6.8	7	7.5	
Weight (kg) (with brake)	8.2	8.4	8.9	9.2	17.5	8.2	8.4	8.9	
Max. radial shaft load (N)	490	490	490	490	1176	490	490	490	
Max. thrust shaft load (N)	98	98	98	98	490	98	98	98	
Power rating (kW/s) (with brake)	6.4	24.9	43.1	59.7	24.1	9.2	35.9	62.1	
Rotor moment of inertia (Kg.m <sup>2</sup> ) (with brake)	8.94E-4	9.14E-4	11.90E-4	15.88E-4	37.86E-4	8.94E-4	9.14E-4	11.9E-4	
Mechanical time constant (ms) (with brake)	2.07	1.64	1.19	1.05	1.77	2.0	1.51	1.13	
Brake holding torque [Nt-m (min)]	16.5	16.5	16.5	16.5	25	16.5	16.5	16.5	
Brake power consumption (at 20°C) [W]	21.0	21.0	21.0	21.0	31.1	21.0	21.0	21.0	
Brake release time [ms (Max)]	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	
Brake pull-in time [ms (Max)]	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	
Vibration grade (um)	15								
Operating temperature	0°C to 40°C (32°F to 104°F)								
Storage temperature	-10°C to 80°C (-14°F to 176°F)								
Operating humidity	20% to 90% RH (non-condensing)								
Storage humidity	20% to 90% RH (non-condensing)								
Vibration capacity	2.5G								
IP rating	IP65 (when waterproof connectors are used, or when an oil seal is used to be fitted to the rotating shaft (an oil seal model is used))								
Approvals	 								





# AC Servo System



## Specifications of Servo Motor

# ASDA-AB

### (ASMT□□) Low Inertia Servo Motor Specifications

Model: ASMT □□L250 □□	100W	200W	400W	750W	1kW	2kW
	01	02	04	07	10	20
Rated output power (kW)	0.1	0.2	0.4	0.75	1.0	2.0
Rated torque (N-m)	0.318	0.64	1.27	2.39	3.3	6.8
Maximum torque (N-m)	0.95	1.91	3.82	7.16	9.9	19.2
Rated speed (r/min)	3000					
Maximum speed (r/min)	5000					4500
Rated current (A)	1.1	1.7	3.3	5.0	6.8	13.4
Maximum current (A)	3.0	4.9	9.3	14.1	18.7	38.4
Power rating (kW/s)	34.5	23.0	48.7	51.3	42	98
Rotor moment of inertia (Kg.m <sup>2</sup> ) (without brake)	0.03E-4	0.18E-4	0.34E-4	1.08E-4	2.6E-4	4.7E-4
Mechanical time constant (ms)	0.6	0.9	0.7	0.6	1.7	1.2
Static friction torque (N-m)	0.02	0.04	0.04	0.08	0.49	0.49
Torque constant-KT (N-m/A)	0.32	0.39	0.4	0.5	0.56	0.54
Voltage constant-KE (mV/(r/min))	33.7E-3	41.0E-3	41.6E-3	52.2E-3	58.4E-3	57.0E-3
Armature resistance (Ohm)	20.3	7.5	3.1	1.3	2.052	0.765
Armature inductance (mH)	32	24	11	6.3	8.4	3.45
Electrical time constant (ms)	1.6	3.2	3.2	4.8	4.1	4.5
Insulation class	Class F					
Insulation resistance	DC 500V , 100M Ω					
Insulation strength	AC 1500 V, 50 Hz, 60 seconds					
Max. radial shaft load (N)	78.4	196	196	343	490	490
Max. thrust shaft load (N)	39.2	68.6	68.6	98	98	98
Vibration grade (um)	15					
DC brake power (V)	24±10%					
Rotor moment of inertia (Kg.m <sup>2</sup> ) (with brake)	0.06E-4	0.28E-4	0.44E-4	1.32E-4	3.1E-4	5.2E-4
Brake holding torque [Nt-m (min)]	0.32	1.27	1.27	2.55	9.3	9.3
Brake power consumption (at 20 °C) [W]	5	9	9	9.5	17.9	17.9
Brake release time [ms (Max)]	20	20	20	50	20	20
Brake pull-in time [ms (Max)]	40	50	50	80	90	90
Operating temperature	0°C to 40°C (32°F to 104°F)					
Storage temperature	-20°C to 70 °C (-4°F to 158°F)					
Operating humidity	20% to 90% RH (non-condensing)					
Storage humidity	20% to 90% RH (non-condensing)					
Vibration capacity	2.5G					
IP Rating	IP65 (when waterproof connectors are used, or when an oil seal is used to be fitted to the rotating shaft (an oil seal model is used))					
Approvals	IEC60034-1, U11004  					

### (ASMT□□) Medium Inertia Servo Motor Specifications

Model: ASMT □□M250 □□	1kW	1.5kW	2kW
	10	15	20
Rated output power (kW)	1.0	1.5	2.0
Rated torque (N-m)	4.8	7.16	9.4
Maximum torque (N-m)	15.7	21.5	23.5
Rated speed (r/min)	2000		
Maximum speed (r/min)	3000		
Rated current (A)	5.6	10.6	13.1
Maximum current (A)	17.6	30.3	31.4
Power rating (kW/s)	38.4	58.3	55.6
Rotor moment of inertia (Kg.m <sup>2</sup> ) (without brake)	5.98E-4	8.79E-4	15.8E-4
Mechanical time constant (ms)	1.4	1.3	1.6
Static friction torque (N-m)	0.29	0.5	0.98
Torque constant-KT (N-m/A)	0.91	0.73	0.77
Voltage constant-KE (mV/(r/min))	95.71E-3	76.0E-3	81.1E-3
Armature resistance (Ohm)	1.98	0.828	0.6
Armature inductance (mH)	13.2	5.5	6.1
Electrical time constant (ms)	6.7	6.6	10.1
Insulation class	Class F		
Insulation resistance	DC 500V , 100M Ω		
Insulation strength	AC 1500 V, 50 Hz, 60 seconds		
Max. radial shaft load (N)	490	490	784
Max. thrust shaft load (N)	98	98	396
Vibration grade (um)	15		
DC brake power (V)	24±10%		
Rotor moment of inertia (Kg.m <sup>2</sup> ) (with brake)	8.77E-4	11.57E-4	27.8E-4
Brake holding torque [Nt-m (min)]	7.5	10.5	32
Brake power consumption (at 20 °C) [W]	20	30	34.7
Brake release time [ms (Max)]	20	20	50
Brake pull-in time [ms (Max)]	90	90	170
Operating temperature	0°C to 40°C (32°F to 104°F)		
Storage temperature	-20°C to 70 °C (-4°F to 158°F)		
Operating humidity	20% to 90% RH (non-condensing)		
Storage humidity	20% to 90% RH (non-condensing)		
Vibration capacity	2.5G		
IP Rating	IP65 (when waterproof connectors are used, or when an oil seal is used to be fitted to the rotating shaft (an oil seal model is used))		
Approvals	IEC60034-1, U11004  		



## Accessories

### (ECMA Series) Power Connector

ASDBCAPW000



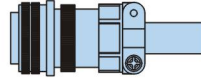
Title	Part No.	Manufacturer
Housing	C4201H00-2*2PA	JOWLE
Terminal	C4201TOP-2	JOWLE

ASDBCAPW010



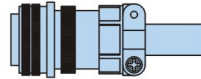
Title	Part No.	Manufacturer
Housing	C4201H00-2*3PA	JOWLE
Terminal	C4201TOP-2	JOWLE

ASD-CAPW1000



MS 3106A-20-18S

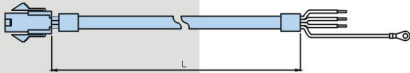
ASD-CAPW2000



MS 3106A-24-11S

### (ECMA Series) Power Cable

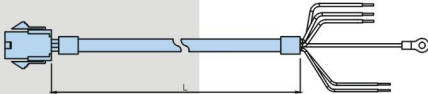
ASD-ABPW0003/0005



Title	Part No.	Manufacturer
Housing	C4201H00-2*2PA	JOWLE
Terminal	C4201TOP-2	JOWLE

Item	Part No.	mm	inch
1	ASD-ABPW0003	3000 ± 100	118 ± 4
2	ASD-ABPW0005	5000 ± 100	197 ± 4

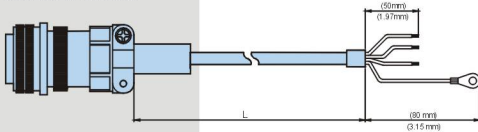
ASD-ABPW0103/0105



Title	Part No.	Manufacturer
Housing	C4201H00-2*3PA	JOWLE
Terminal	C4201TOP-2	JOWLE

Item	Part No.	mm	inch
1	ASD-ABPW0103	3000 ± 100	118 ± 4
2	ASD-ABPW0105	5000 ± 100	197 ± 4

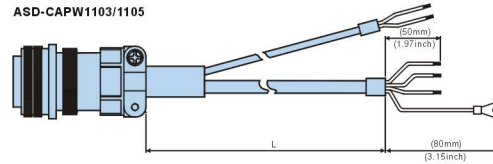
ASD-CAPW1003/1005



Item	Part No.	Straight	mm	inch
1	ASD-CAPW1003	3106A-20-18S	3000 ± 100	118 ± 4
2	ASD-CAPW1005	3106A-20-18S	5000 ± 100	197 ± 4

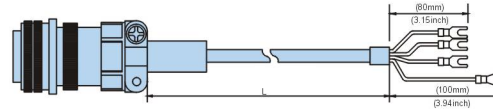
### (ECMA Series) Power Cable

ASD-CAPW1103/1105



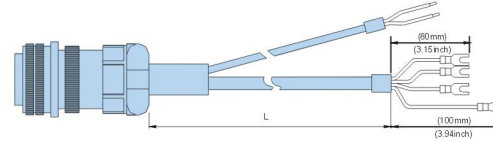
Item	Part No.	Straight	mm	inch
1	ASD-CAPW1103	3106A-20-18S	3000 ± 100	118 ± 4
2	ASD-CAPW1105	3106A-20-18S	5000 ± 100	197 ± 4

ASD-CAPW1203/1205



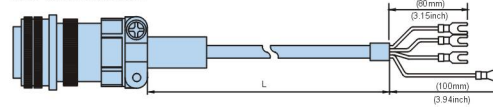
Item	Part No.	Straight	mm	inch
1	ASD-CAPW1203	3106A-20-18S	3000 ± 100	118 ± 4
2	ASD-CAPW1205	3106A-20-18S	5000 ± 100	197 ± 4

ASD-CAPW1303/1305



Item	Part No.	Straight	mm	inch
1	ASD-CAPW1303	3106A-20-18S	3000 ± 100	118 ± 4
2	ASD-CAPW1305	3106A-20-18S	5000 ± 100	197 ± 4

ASD-CAPW2203/2205



Item	Part No.	Straight	mm	inch
1	ASD-CAPW2203	3105A-24-11S	3000 ± 100	118 ± 4
2	ASD-CAPW2205	3106A-24-11S	5000 ± 100	197 ± 4

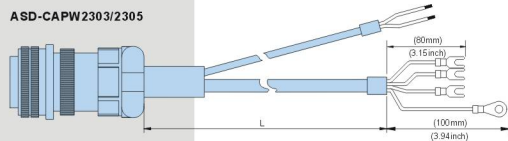
# AC Servo System

# ASDA-AB

## Accessories

### (ECMA Series) Power Cable

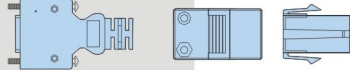
ASD-CAPW2303/2305



Item	Part No.	Straight	mm	inch
1	ASD-CAPW2303	3106A-24-11S	3000 ± 100	118 ± 4
2	ASD-CAPW2305	3106A-24-11S	5000 ± 100	197 ± 4

### (ECMA Series) Encoder Connector

ASD-ABEN0000



Title	Part No.	Manufacturer
MOTOR SIDE	Housing	AMP(1-172161-9)
	Terminal	AMP(170359-3)
	CLAMP	DELTA(34703237XX)
DRIVE SIDE	PLUG	3M 10120-3000PE
	SHELL	3M 10320-52A0-008

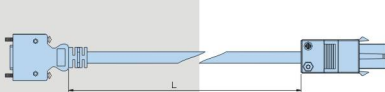
ASD-CAEN1000



Title	Part No.	Manufacturer
MOTOR SIDE	3106A-20-29S	-----
DRIVE SIDE	PLUG	3M 10120-3000PE
	SHELL	3M 10320-52A0-008

### (ECMA Series) Encoder Cable

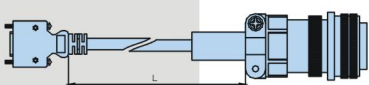
ASD-ABEN0003/0005



Title	Part No.	Manufacturer
MOTOR SIDE	Housing	AMP(1-172161-9)
	Terminal	AMP(170359-3)
	CLAMP	DELTA(34703237XX)
DRIVE SIDE	PLUG	3M 10120-3000PE
	SHELL	3M 10320-52A0-008

Item	Part No.	Straight	mm	inch
1	ASD-ABEN0003	3000 ± 100	118 ± 4	
2	ASD-ABEN0005	5000 ± 100	197 ± 4	

ASD-CAEN1003/1005

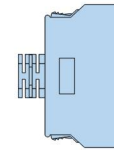


Title	Part No.	Manufacturer
MOTOR SIDE	3106A-20-29S	-----
DRIVE SIDE	PLUG	3M 10120-3000PE
	SHELL	3M 10320-52A0-008

Item	Part No.	Straight	mm	inch
1	ASD-CAEN1003	3106A-20-29S	3000 ± 100	118 ± 4
2	ASD-CAEN1005	3106A-20-29S	5000 ± 100	197 ± 4

### (ECMA Series) I/O Signal Connector

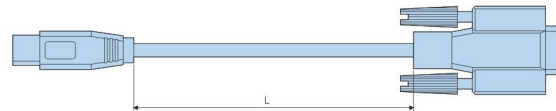
ASD-CN5C0050



Vendor Name	Vendor P/N
3M TAIWAN LTD	10150-3000PE
3M TAIWAN LTD	10350-52A0-008

### (ECMA Series) Communication Cable (for PC)

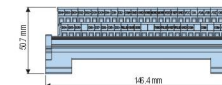
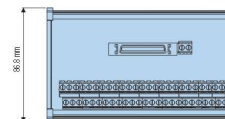
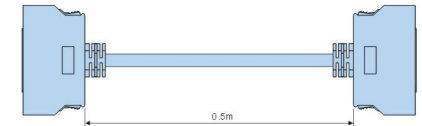
ASD-CARS0003



Item	Part No.	mm	inch
1	ASD-CARS0003	3000 ± 100	118 ± 4

### (ECMA Series) Terminal Block

ASD-BM-50A





# AC Servo System

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## Accessories



### (ASMT Series) Power Connector (for 100W~750W motors)

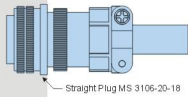
ASD-CAPW000  
AMP:350780-1



Item	Part No.	Qty.	UNIT
Housing	AMP 350780-1	1	PCE
Terminal	AMP 350537-3	4	PCE

### (ASMT Series) Power Connector (for 1kW~2kW low inertia and 1kW~1.5kW medium inertia motors)

ASD-CAPW1000  
CLAMP:MS3057-12A



Straight Plug MS 3106-20-18

### (ASMT Series) Power Connector (for 100W~750W motors with brake)

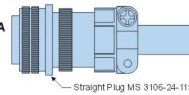
ASD-CAPW0100  
AMP:350781-1



Item	Part No.	Qty.	UNIT
Housing	AMP 350781-1	1	PCE
UVW Terminal	AMP 350537-3	4	PCE
Brake Terminal	AMP 350570-3	2	PCE

### (ASMT Series) Power Connector (for 2kW medium inertia motors)

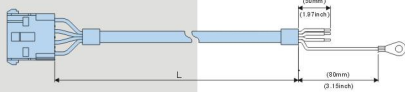
ASD-CAPW2000  
CLAMP:MS3057-16A



Straight Plug MS 3106-24-11S

### (ASMT Series) Power Cable (for 100W~750W motors)

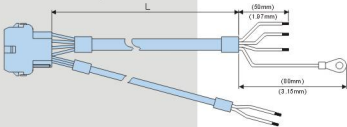
ASD-CAPW0003, ASD-CAPW0005



Item	Part No.	mm	inc.
1	ASD-CAPW0003	3000 ± 100	118 ± 4
2	ASD-CAPW0005	5000 ± 100	197 ± 4

### (ASMT Series) Power Cable (for 100W~750W motors with brake)

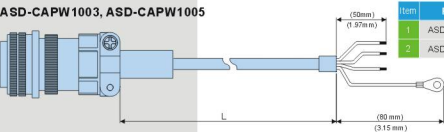
ASD-CAPW0103, ASD-CAPW0105



Item	Part No.	mm	inc.
1	ASD-CAPW0103	3000 ± 100	118 ± 4
2	ASD-CAPW0105	5000 ± 100	197 ± 4

### (ASMT Series) Power Cable (for 1kW~1.5kW motors)

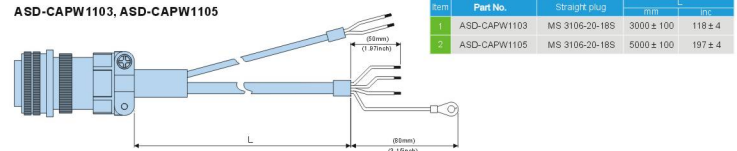
ASD-CAPW1003, ASD-CAPW1005



Item	Part No.	Straight plug	mm	inc.
1	ASD-CAPW1003	MS 3106-20-18S	3000 ± 100	118 ± 4
2	ASD-CAPW1005	MS 3106-20-18S	5000 ± 100	197 ± 4

### (ASMT Series) Power Cable (for 1kW~1.5kW motors with brake)

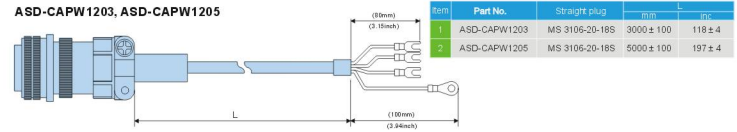
ASD-CAPW1103, ASD-CAPW1105



Item	Part No.	Straight plug	mm	inc.
1	ASD-CAPW1103	MS 3106-20-18S	3000 ± 100	118 ± 4
2	ASD-CAPW1105	MS 3106-20-18S	5000 ± 100	197 ± 4

### (ASMT Series) Power Cable (for 2kW low inertia motors)

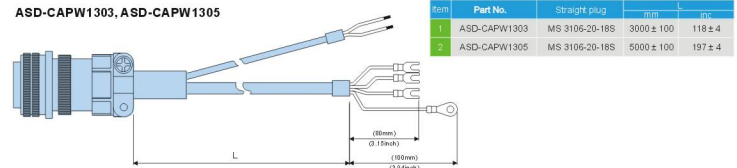
ASD-CAPW1203, ASD-CAPW1205



Item	Part No.	Straight plug	mm	inc.
1	ASD-CAPW1203	MS 3106-20-18S	3000 ± 100	118 ± 4
2	ASD-CAPW1205	MS 3106-20-18S	5000 ± 100	197 ± 4

### (ASMT Series) Power Cable (for 2kW low inertia motors with brake)

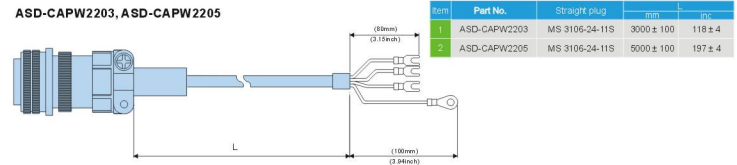
ASD-CAPW1303, ASD-CAPW1305



Item	Part No.	Straight plug	mm	inc.
1	ASD-CAPW1303	MS 3106-20-18S	3000 ± 100	118 ± 4
2	ASD-CAPW1305	MS 3106-20-18S	5000 ± 100	197 ± 4

### (ASMT Series) Power Cable (for 2kW medium inertia motors)

ASD-CAPW2203, ASD-CAPW2205



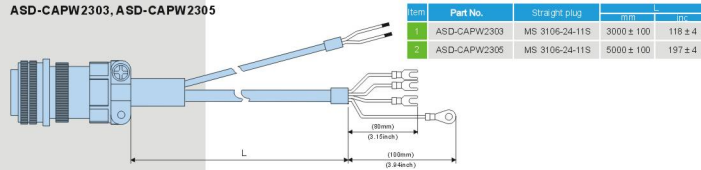
Item	Part No.	Straight plug	mm	inc.
1	ASD-CAPW2203	MS 3106-24-11S	3000 ± 100	118 ± 4
2	ASD-CAPW2205	MS 3106-24-11S	5000 ± 100	197 ± 4

## Accessories



### (ASMT Series) Power Cable (for 2kW medium inertia motors with brake)

ASD-CAPW2303, ASD-CAPW2305



Item	Part No.	Straight plug	mm	inch
1	ASD-CAPW2303	MS 3106-24-11S	3000 ± 100	118 ± 4
2	ASD-CAPW2305	MS 3106-24-11S	5000 ± 100	197 ± 4

### (ASMT Series) Encoder Connector (for 100W~750W motors)

ASD-CAEN0000



Vendor Name	Vendor P/N
3M TAIWAN LTD	10120-3000VE
3M TAIWAN LTD	10320-52AD-008

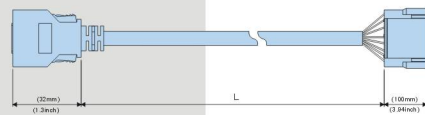
### (ASMT Series) Encoder Connector (for 1kW and 1kW above motors)

ASD-CAEN1000



### (ASMT Series) Encoder Cable (for 100W~750W motors)

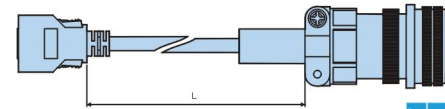
ASD-CAEN0003, ASD-CAEN0005



Item	Part No.	mm	inch
1	ASD-CAEN0003	3000 ± 100	118 ± 4
2	ASD-CAEN0005	5000 ± 100	197 ± 4

### (ASMT Series) Encoder Cable (for 1kW and 1kW above motors)

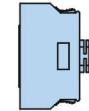
ASD-CAEN1003, ASD-CAEN1005



Item	Part No.	Straight plug	mm	inch
1	ASD-CAEN1003	MS 3106-20-29S	3000 ± 100	118 ± 4
2	ASD-CAEN1005	MS 3106-20-29S	5000 ± 100	197 ± 4

### (ASMT Series) I/O Signal Connector

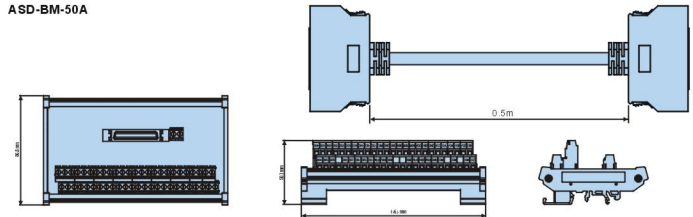
ASD-CN5C0050



Vendor Name	Vendor P/N
3M TAIWAN LTD	1015-3000VE
3M TAIWAN LTD	10350-52AQ-008

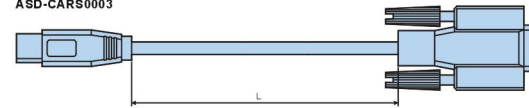
### (ASMT Series) Terminal Block

ASD-BM-50A



### (ASMT Series) I/O Signal Connector

ASD-CARS0003



Item	Part No.	mm	inch
1	ASD-CARS0003	3000 ± 100	118 ± 4

# AC Servo System

## Accessories Cross Reference

# ASDA-AB



### Regenerative Resistor Specifications

Servo Drive (kW)	Recommended Specifications for Built-in Regenerative Resistor		Recommended Specifications for External Regenerative Resistor	Min. Allowable Resistance (Ohm)
	Resistance (Ohm) (parameter P1-52)	Capacity (Watt) (parameter P1-53)		
0.1	40 Ω	60 W	60 Ω 100 W	40 Ω
0.2	40 Ω	60 W	60 Ω 200 W	40 Ω
0.4	40 Ω	60 W	30 Ω 400 W	20 Ω
0.75	40 Ω	60 W	30 Ω 750 W	20 Ω
1.0	40 Ω	60 W	30 Ω 1K W	20 Ω
1.5	40 Ω	60 W	30 Ω 1K W	20 Ω
2.0	20 Ω	120 W	15 Ω 1 KW	10 Ω

Note:

- When the fault, ALE05 (Regeneration Error) occurs, please increase the regenerative resistor capacity (Watt) or decrease the regenerative resistor resistance (Ohm) of built-in regenerative resistor (the specifications of regenerative resistor should not be lower than the minimum allowable resistance listed in the above table). If the fault cannot be cleared after adjusting the specifications of built-in regenerative resistor, please use external regenerative resistors.
- When combining multiple small-capacity regenerative resistors in parallel to increase the regenerative resistor capacity, make sure that the total resistance value of the regenerative resistors should be lower than the minimum allowable resistance listed in the above table.



### 100 W Servo Drive and 100W Low Inertia Servo Motor (ECMA Series)

Servo Drive	ASD-A0121-AB	
Low Inertia Servo Motor	ECMA-C30401□S	
Cable	Without Brake	
	3M Motor Power Cable ASD-ABPW0003	5M Motor Power Cable ASD-ABPW0005
	Encoder Cable ASD-ABEN0003	Encoder Cable ASD-ABEN0005
Connector	Power Connector ASDBCAPW0000	
	Encoder Connector ASD-ABEN0000	

### 200W Servo Drive and 200W Low Inertia Servo Motor (ECMA Series)

Servo Drive	ASD-A0221-AB			
Low Inertia Servo Motor	ECMA-C30602□S			
Cable	Without Brake		With Brake	
	3M Motor Power Cable ASD-ABPW0003	5M Motor Power Cable ASD-ABPW0005	3M Motor Power Cable ASD-ABPW0103	5M Motor Power Cable ASD-ABPW0105
	Encoder Cable ASD-ABEN0003	Encoder Cable ASD-ABEN0005	Encoder Cable ASD-ABEN0003	Encoder Cable ASD-ABEN0005
Connector	Power Connector ASDBCAPW0000		Power Connector ASDBCAPW0100	
	Encoder Connector ASD-ABEN0000			

### 400W Servo Drive and 400W Low Inertia Servo Motor (ECMA Series)

Servo Drive	ASD-A0421-AB			
Low Inertia Servo Motor	ECMA-C30604□S		ECMA-C30804□7	
Cable	Without Brake		With Brake	
	3M Motor Power Cable ASD-ABPW0003	5M Motor Power Cable ASD-ABPW0005	3M Motor Power Cable ASD-ABPW0103	5M Motor Power Cable ASD-ABPW0105
	Encoder Cable ASD-ABEN0003	Encoder Cable ASD-ABEN0005	Encoder Cable ASD-ABEN0003	Encoder Cable ASD-ABEN0005
Connector	Power Connector ASDBCAPW0000		Power Connector ASDBCAPW0100	
	Encoder Connector ASD-ABEN0000			

# AC Servo System

## Accessories Cross Reference

# ASDA-AB

### 400W Servo Drive and 500W Medium Inertia Servo Motor (ECMA Series)

Servo Drive	ASD-A0421-AB			
Medium Inertia Servo Motor	ECMA-E31305□S			
Cable	Without Brake		With Brake	
	3M	5M	3M	5M
Motor Power Cable	ASD-CAPW1003	ASD-CAPW1005	ASD-CAPW1103	ASD-CAPW1105
Encoder Cable	ASD-CAEN1003	ASD-CAEN1005	ASD-CAEN1003	ASD-CAEN1005
Connector	Power Connector ASD-CAPW1000			
	Encoder Connector ASD-CAEN1000			

### 400W Servo Drive and 300W High Inertia Servo Motor (ECMA Series)

Servo Drive	ASD-A0421-AB			
High Inertia Servo Motor	ECMA-G31303□S			
Cable	Without Brake		With Brake	
	3M	5M	3M	5M
Motor Power Cable	ASD-CAPW1003	ASD-CAPW1005	ASD-CAPW1103	ASD-CAPW1105
Encoder Cable	ASD-CAEN1003	ASD-CAEN1005	ASD-CAEN1003	ASD-CAEN1005
Connector	Power Connector ASD-CAPW1000			
	Encoder Connector ASD-CAEN1000			

### 750W Servo Drive and 750W Low Inertia Servo Motor (ECMA Series)

Servo Drive	ASD-A0721-AB			
Low Inertia Servo Motor	ECMA-C30807□S			
Cable	Without Brake		With Brake	
	3M	5M	3M	5M
Motor Power Cable	ASD-ABPW0003	ASD-ABPW0005	ASD-ABPW0103	ASD-ABPW0105
Encoder Cable	ASD-ABEN0003	ASD-ABEN0005	ASD-ABEN0003	ASD-ABEN0005
Connector	Power Connector ASDBCAPW0000		Power Connector ASDBCAPW0100	
	Encoder Connector ASD-ABEN0000			

### 750W Servo Drive and 600W High Inertia Servo Motor (ECMA Series)

Servo Drive	ASD-A0721-AB			
High Inertia Servo Motor	ECMA-G31306□S			
Cable	Without Brake		With Brake	
	3M	5M	3M	5M
Motor Power Cable	ASD-CAPW1003	ASD-CAPW1005	ASD-CAPW1103	ASD-CAPW1105
Encoder Cable	ASD-CAEN1003	ASD-CAEN1005	ASD-CAEN1003	ASD-CAEN1005
Connector	Power Connector ASD-CAPW1000			
	Encoder Connector ASD-CAEN1000			

### 1kW Servo Drive and 1kW Low Inertia Servo Motor (ECMA Series)

Servo Drive	ASD-A1021-AB			
Low Inertia Servo Motor	ECMA-C31010□S			
Cable	Without Brake		With Brake	
	3M	5M	3M	5M
Motor Power Cable	ASD-CAPW1003	ASD-CAPW1005	ASD-CAPW1103	ASD-CAPW1105
Encoder Cable	ASD-CAEN1003	ASD-CAEN1005	ASD-CAEN1003	ASD-CAEN1005
Connector	Power Connector ASD-CAPW1000			
	Encoder Connector ASD-CAEN1000			

### 1kW Servo Drive and 1kW Medium Inertia Servo Motor (ECMA Series)

Servo Drive	ASD-A1021-AB			
Medium Inertia Servo Motor	ECMA-E31310□S			
Cable	Without Brake		With Brake	
	3M	5M	3M	5M
Motor Power Cable	ASD-CAPW1003	ASD-CAPW1005	ASD-CAPW1103	ASD-CAPW1105
Encoder Cable	ASD-CAEN1003	ASD-CAEN1005	ASD-CAEN1003	ASD-CAEN1005
Connector	Power Connector ASD-CAPW1000			
	Encoder Connector ASD-CAEN1000			



# AC Servo System

## Accessories Cross Reference

# ASDA-AB



### 1kW Servo Drive and 900W High Inertia Servo Motor (ECMA Series)

<b>Servo Drive</b>	ASD-A1021-AB			
<b>High Inertia Servo Motor</b>	ECMA-G31309□□S			
<b>Cable</b>	Without Brake		With Brake	
	3M	5M	3M	5M
	Motor Power Cable ASD-CAPW1003	Motor Power Cable ASD-CAPW1005	Motor Power Cable ASD-CAPW1103	Motor Power Cable ASD-CAPW1105
	Encoder Cable ASD-CAEN1003	Encoder Cable ASD-CAEN1005	Encoder Cable ASD-CAEN1003	Encoder Cable ASD-CAEN1005
<b>Connector</b>	Power Connector ASD-CAPW1000 Encoder Connector ASD-CAEN1000			

### 1.5kW Servo Drive and 1.5kW Medium Inertia Servo Motor (ECMA Series)

<b>Servo Drive</b>	ASD-A1521-AB			
<b>Medium Inertia Servo Motor</b>	ECMA-E31315□□S			
<b>Cable</b>	Without Brake		With Brake	
	3M	5M	3M	5M
	Motor Power Cable ASD-CAPW1003	Motor Power Cable ASD-CAPW1005	Motor Power Cable ASD-CAPW1103	Motor Power Cable ASD-CAPW1105
	Encoder Cable ASD-CAEN1003	Encoder Cable ASD-CAEN1005	Encoder Cable ASD-CAEN1003	Encoder Cable ASD-CAEN1005
<b>Connector</b>	Power Connector ASD-CAPW1000 Encoder Connector ASD-CAEN1000			

### 2kW Servo Drive and 2kW Low Inertia Servo Motor (ECMA Series)

<b>Servo Drive</b>	ASD-A2023-AB			
<b>Low Inertia Servo Motor</b>	ECMA-C31020□□S			
<b>Cable</b>	Without Brake		With Brake	
	3M	5M	3M	5M
	Motor Power Cable ASD-CAPW1203	Motor Power Cable ASD-CAPW1205	Motor Power Cable ASD-CAPW1303	Motor Power Cable ASD-CAPW1305
	Encoder Cable ASD-CAEN1003	Encoder Cable ASD-CAEN1005	Encoder Cable ASD-CAEN1003	Encoder Cable ASD-CAEN1005
<b>Connector</b>	Power Connector ASD-CAPW1000 Encoder Connector ASD-CAEN1000			

### 2kW Servo Drive and 2kW Medium Inertia Servo Motor (ECMA Series)

<b>Servo Drive</b>	ASD-A2023-AB			
<b>Medium Inertia Servo Motor</b>	ECMA-E31320□□S			
<b>Cable</b>	Without Brake		With Brake	
	3M	5M	3M	5M
	Motor Power Cable ASD-CAPW1203	Motor Power Cable ASD-CAPW1205	Motor Power Cable ASD-CAPW1303	Motor Power Cable ASD-CAPW1305
	Encoder Cable ASD-CAEN1003	Encoder Cable ASD-CAEN1005	Encoder Cable ASD-CAEN1003	Encoder Cable ASD-CAEN1005
<b>Connector</b>	Power Connector ASD-CAPW1000 Encoder Connector ASD-CAEN1000			

### 2kW Servo Drive and 2kW Medium Inertia Servo Motor (ECMA Series)

<b>Servo Drive</b>	ASD-A2023-AB			
<b>Medium Inertia Servo Motor</b>	ECMA-E31820□□S			
<b>Cable</b>	Without Brake		With Brake	
	3M	5M	3M	5M
	Motor Power Cable ASD-CAPW2203	Motor Power Cable ASD-CAPW2205	Motor Power Cable ASD-CAPW2303	Motor Power Cable ASD-CAPW2305
	Encoder Cable ASD-CAEN1003	Encoder Cable ASD-CAEN1005	Encoder Cable ASD-CAEN1003	Encoder Cable ASD-CAEN1005
<b>Connector</b>	Power Connector ASD-CAPW2000 Encoder Connector ASD-CAEN1000			

### Other Accessories (for ASDA-AB series all models)

Description	Delta Part Number
50-Pin I/O Signal Connector (CN1)	ASD-CN5C0050
Communication Cable (for PC), connecting a ASDA-AB series servo drive and a PC	ASD-CARS0003
Terminal Block	ASD-BM-50A

# AC Servo System

## Accessories Cross Reference

# ASDA-AB

### 100W Servo Drive and 100W Low Inertia Servo Motor (ASMT Series)

Servo Drive	ASD-A0121-AB			
Low Inertia Servo Motor	ASMT-01L250A□		ASMT-01L250B□	
Cable	Without Brake		With Brake	
	3M	5M	3M	5M
	Motor Power Cable ASD-CAPW0003	Motor Power Cable ASD-CAPW0005	Motor Power Cable ASD-CAPW0103	Motor Power Cable ASD-CAPW0105
	Encoder Cable ASD-CAEN0003	Encoder Cable ASD-CAEN0005	Encoder Cable ASD-CAEN0003	Encoder Cable ASD-CAEN0005
Connector	Power Connector ASD-CAPW0000		Power Connector ASD-CAPW0100	
	Encoder Connector ASD-CAEN0000			

### 750W Servo Drive and 750W Low Inertia Servo Motor (ASMT Series)

Servo Drive	ASD-A0721-AB			
Low Inertia Servo Motor	ASMT-07L250A□		ASMT-07L250B□	
Cable	Without Brake		With Brake	
	3M	5M	3M	5M
	Motor Power Cable ASD-CAPW0003	Motor Power Cable ASD-CAPW0005	Motor Power Cable ASD-CAPW0103	Motor Power Cable ASD-CAPW0105
	Encoder Cable ASD-CAEN0003	Encoder Cable ASD-CAEN0005	Encoder Cable ASD-CAEN0003	Encoder Cable ASD-CAEN0005
Connector	Power Connector ASD-CAPW0000		Power Connector ASD-CAPW0100	
	Encoder Connector ASD-CAEN0000			

### 200W Servo Drive and 200W Low Inertia Servo Motor (ASMT Series)

Servo Drive	ASD-A0221-AB			
Low Inertia Servo Motor	ASMT-02L250A□		ASMT-02L250B□	
Cable	Without Brake		With Brake	
	3M	5M	3M	5M
	Motor Power Cable ASD-CAPW0003	Motor Power Cable ASD-CAPW0005	Motor Power Cable ASD-CAPW0103	Motor Power Cable ASD-CAPW0105
	Encoder Cable ASD-CAEN0003	Encoder Cable ASD-CAEN0005	Encoder Cable ASD-CAEN0003	Encoder Cable ASD-CAEN0005
Connector	Power Connector ASD-CAPW0000		Power Connector ASD-CAPW0100	
	Encoder Connector ASD-CAEN0000			

### 1kW Servo Drive and 1kW Low Inertia Servo Motor (ASMT Series)

Servo Drive	ASD-A1021-AB			
Low Inertia Servo Motor	ASMT-10L250A□		ASMT-10L250B□	
Cable	Without Brake		With Brake	
	3M	5M	3M	5M
	Motor Power Cable ASD-CAPW1003	Motor Power Cable ASD-CAPW1005	Motor Power Cable ASD-CAPW1103	Motor Power Cable ASD-CAPW1105
	Encoder Cable ASD-CAEN1003	Encoder Cable ASD-CAEN1005	Encoder Cable ASD-CAEN1003	Encoder Cable ASD-CAEN1005
Connector	Power Connector ASD-CAPW1000		Power Connector ASD-CAPW1100	
	Encoder Connector ASD-CAEN1000			

### 400W Servo Drive and 400W Low Inertia Servo Motor (ASMT Series)

Servo Drive	ASD-A0421-AB			
Low Inertia Servo Motor	ASMT-04L250A□		ASMT-04L250B□	
Cable	Without Brake		With Brake	
	3M	5M	3M	5M
	Motor Power Cable ASD-CAPW0003	Motor Power Cable ASD-CAPW0005	Motor Power Cable ASD-ABPW0103	Motor Power Cable ASD-ABPW0105
	Encoder Cable ASD-CAEN0003	Encoder Cable ASD-CAEN0005	Encoder Cable ASD-ABEN0003	Encoder Cable ASD-ABEN0005
Connector	Power Connector ASD-CAPW0000		Power Connector ASD-CAPW0100	
	Encoder Connector ASD-CAEN0000			

### 1kW Servo Drive and 1kW Medium Inertia Servo Motor (ASMT Series)

Servo Drive	ASD-A1021-AB			
Medium Inertia Servo Motor	ASMT-10M250A□		ASMT-10M250B□	
Cable	Without Brake		With Brake	
	3M	5M	3M	5M
	Motor Power Cable ASD-CAPW1003	Motor Power Cable ASD-CAPW1005	Motor Power Cable ASD-CAPW1103	Motor Power Cable ASD-CAPW1105
	Encoder Cable ASD-CAEN1003	Encoder Cable ASD-CAEN1005	Encoder Cable ASD-CAEN1003	Encoder Cable ASD-CAEN1005
Connector	Power Connector ASD-CAPW1000		Power Connector ASD-CAPW1100	
	Encoder Connector ASD-CAEN1000			

# AC Servo System

## Accessories Cross Reference



## Dimensions of Servo Motor

### 1.5kW Servo Drive and 1.5kW Medium Inertia Servo Motor (ASMT Series)

Servo Drive	ASD-A1521-AB			
Medium Inertia Servo Motor	ASMT-15M250A□		ASMT-15M250B□	
Cable	Without Brake		With Brake	
	3M	5M	3M	5M
	Motor Power Cable ASD-CAPW1003	Motor Power Cable ASD-CAPW1005	Motor Power Cable ASD-CAPW1103	Motor Power Cable ASD-CAPW1105
	Encoder Cable ASD-CAEN1003	Encoder Cable ASD-CAEN1005	Encoder Cable ASD-CAEN1003	Encoder Cable ASD-CAEN1005
Connector	Power Connector ASD-CAPW1000		Power Connector ASD-CAPW1100	
	Encoder Connector ASD-CAEN1000			

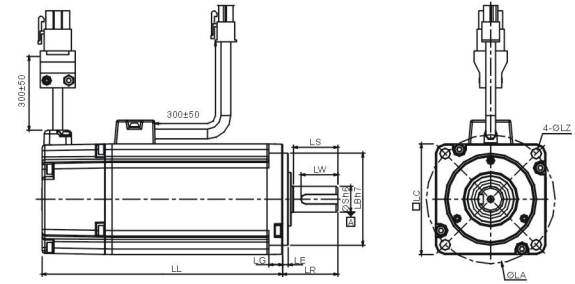
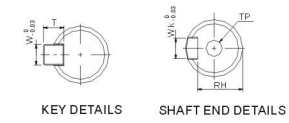
### 2kW Servo Drive and 2kW Low Inertia Servo Motor (ASMT Series)

Servo Drive	ASD-A2023-AB			
Low Inertia Servo Motor	ASMT-20L250A□		ASMT-20L250B□	
Cable	Without Brake		With Brake	
	3M	5M	3M	5M
	Motor Power Cable ASD-CAPW1203	Motor Power Cable ASD-CAPW1205	Motor Power Cable ASD-CAPW1303	Motor Power Cable ASD-CAPW1305
	Encoder Cable ASD-CAEN1003	Encoder Cable ASD-CAEN1005	Encoder Cable ASD-CAEN1003	Encoder Cable ASD-CAEN1005
Connector	Power Connector ASD-CAPW1000		Power Connector ASD-CAPW1100	
	Encoder Connector ASD-CAEN1000			

### 2kW Servo Drive and 2kW Medium Inertia Servo Motor (ASMT Series)

Servo Drive	ASD-A2023-AB			
Medium Inertia Servo Motor	ASMT-20M250A□		ASMT-20M250B□	
Cable	Without Brake		With Brake	
	3M	5M	3M	5M
	Motor Power Cable ASD-CAPW2203	Motor Power Cable ASD-CAPW2205	Motor Power Cable ASD-ABPW2303	Motor Power Cable ASD-ABPW2305
	Encoder Cable ASD-CAEN1003	Encoder Cable ASD-CAEN1005	Encoder Cable ASD-ABEN1003	Encoder Cable ASD-ABEN1005
Connector	Power Connector ASD-CAPW2000			
	Encoder Connector ASD-CAEN1000			

### ECMA Series Motor Frame Size: 80mm and below Models (Units: mm)



Model	C3040□S	C3060□S	C3060□S	C3080□7	C3080□S
LC	40	60	60	80	80
LZ	4.5	5.5	5.5	6.6	6.6
LA	46	70	70	90	90
S	8	14	14	14	19
LB	30	50	50	70	70
LL (Without Brake)	100.6	105.5	130.7	112.3	138.3
LL (With Brake)	-	141.6	166.8	152.8	178
LR	25	30	30	30	35
LE	2.5	3	3	3	3
LG	5	7.5	7.5	8	8
LW	16	20	20	20	25
RH	6.2	11	11	11	15.5
WK	3	5	5	5	6
W	3	5	5	5	6
T	3	5	5	5	6

Note:  
 1. The boxes (□) in the model names are for optional configurations (brake, shaft type and oil seal).  
 2. The dimensions of "TP" are the special specifications. If necessary, please contact your distributor.

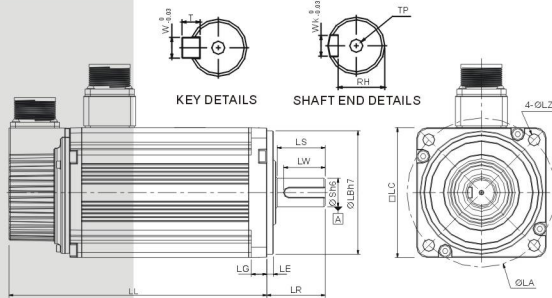
# AC Servo System

## Dimensions of Servo Motor

# ASDA-AB



### ECMA Series Motor Frame Size: 100mm and above Models (Units: mm)

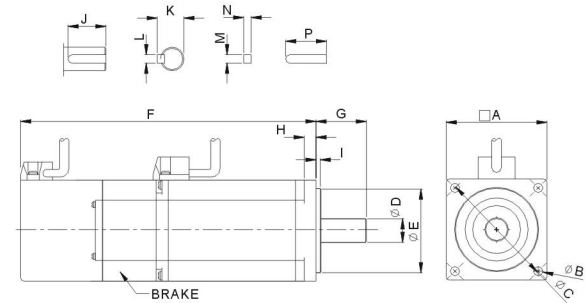


Model	G31303□S	E31305□S	G31306□S	G31309□S	C31010□S
LC	130	130	130	130	100
LZ	9	9	9	9	9
LA	145	145	145	145	115
S	22	22	22	22	22
LB	110	110	110	110	95
LL (Without Brake)	147.5	147.5	147.5	163.5	153.5
LL (With Brake)	183.5	183.5	183.5	198	192.5
LR	55	55	55	55	45
LE	6	6	6	6	5
LG	11.5	11.5	11.5	11.5	12
LW	36	36	36	36	32
RH	18	18	18	18	18
WK	8	8	8	8	8
W	8	8	8	8	8
T	7	7	7	7	7

Model	E31310□S	E31315□S	C31020□S	E31320□S	E31820□S
LC	130	130	100	130	180
LZ	9	9	9	9	13.5
LA	145	145	115	145	200
S	22	22	22	22	35
LB	110	110	95	110	114.3
LL (Without Brake)	147.5	167.5	199	187.5	169
LL (With Brake)	183.5	202	226	216	203.1
LR	55	55	45	55	79
LE	6	6	5	6	4
LG	11.5	11.5	12	11.5	20
LW	36	36	32	36	63
RH	18	18	18	18	30
WK	8	8	8	8	10
W	8	8	8	8	10
T	7	7	7	7	8

Note:  
 1. The boxes (□) in the model names are for optional configurations (brake, shaft type and oil seal).  
 2. The dimensions of "TP" are the special specifications. If necessary, please contact your distributor.

### ASMT Series 100W to 750W Low Inertia Servo Motors (Units: mm)



Model	ASMT01L250□□	ASMT02L250□□	ASMT04L250□□	ASMT07L250□□
Power (W)	100	200	400	750
A	40	60	60	80
B	4.5	5.5	5.5	6.6
C	46	70	70	90
D	8h6 +0.0 -0.009	14h6 +0.0 -0.011	14h6 +0.0 -0.011	19h6 +0.0 -0.013
E	30h7 +0.0 -0.021	50h7 +0.0 -0.025	50h7 +0.0 -0.025	70h7 +0.0 -0.030
F (Without Brake)	100.1	102.4	124.4	135
F (With Brake)	135.7	137	159	171.6
G	25	30	30	35
H	5	6	6	8
I	2.5	3	3	3
J	16	20	20	25
K	9.2 +0.0 -0.2	16 +0.0 -0.2	16 +0.0 -0.2	21.5 +0.0 -0.2
L	3h9 -0.006 -0.031	5h9 -0.012 -0.042	5h9 -0.012 -0.042	6h9 -0.012 -0.042
M	3 +0.0 -0.025	5 +0.0 -0.030	5 +0.0 -0.030	6 +0.0 -0.030
N	3 +0.0 -0.025	5 +0.0 -0.030	5 +0.0 -0.030	6 +0.0 -0.030
P	16 +0.0 -0.18	20 +0.0 -0.21	20 +0.0 -0.21	25 +0.0 -0.21
Weight (Without Brake)	0.5(1.1)	0.9(1.98)	1.3(2.87)	2.5(5.5)
Weight (With Brake)	0.7(1.54)	1.4(3.09)	1.8(3.97)	3.4(7.5)

Note:  
 1. The boxes (□) in the model names are for optional configurations (brake, shaft type and oil seal).  
 2. Dimensions are in millimeters. Weights are in kilograms (kg) and (pounds (lbs)).



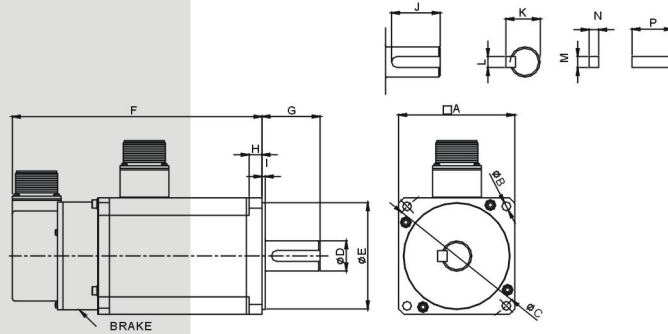
# AC Servo System

# ASDA-AB

## Dimensions of Servo Motor



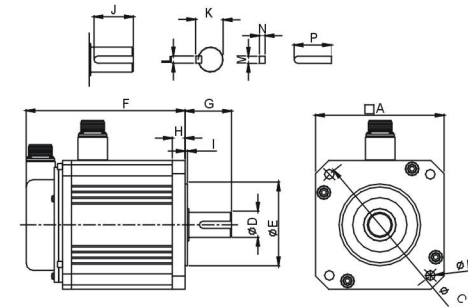
ASMT Series 1kW to 2W Low Inertia Servo Motors (Units: mm)



Model	ASMT10L250□□	ASMT20L250□□
Power (W)	1000	2000
A	100	100
B	9	9
C	115 +0.2 -0.2	115 +0.2 -0.2
D	22h6 +0.0 -0.013	22h6 +0.0 -0.013
E	95h7 +0.0 -0.035	95h7 +0.0 -0.035
F (Without Brake)	158	194
F (With Brake)	190	226
G	45	55
H	17	17
I	7	7
J	34	44
K	25 +0.0 -0.2	25 +0.0 -0.2
L	8h9 +0.0 -0.036	8h9 -0.0 -0.036
M	8	8
N	7	7
P	30	40
Weight (Without Brake)	4.7(10.36)	6.7(12.57)
Weight (With Brake)	6.3(13.89)	8.3(16.09)

Note:  
 1. The boxes (□) in the model names are for optional configurations (brake, shaft type and oil seal).  
 2. Dimensions are in millimeters. Weights are in kilograms (kg) and (pounds (lbs)).

ASMT Series 1kW to 2kW Medium Inertia Servo Motors (Units: mm)



Model	ASMT10M250□□	ASMT15M250□□	ASMT20M250□□
Power (W)	1000	1500	2000
A	130	130	180
B	9	9	13.5
C	145 +0.2 -0.2	145 +0.2 -0.2	200 +0.2 -0.2
D	22h6 +0.0 -0.013	22h6 +0.0 -0.013	35h6 +0.0 -0.016
E	110h7 +0.0 -0.035	110h7 +0.0 -0.035	114.3h7 +0.0 -0.035
F (Without Brake)	143	158	164
F (With Brake)	181	196	213
G	55	55	75
H	15	15	20
I	4	4	4
J	44	44	65
K	25 +0.0 -0.1	25 +0.0 -0.1	38 +0.0 -0.2
L	8h9 -0.0 -0.036	8h9 -0.0 -0.036	10h9 -0.0 -0.036
M	8	8	10
N	7	7	8
P	40	40	60
Weight (Without Brake)	4.8(10.58)	7.0(15.43)	12.0(26.46)
Weight (With Brake)	7.5(16.53)	9.7(21.38)	19.0(41.89)

Note:  
 1. The boxes (□) in the model names are for optional configurations (brake, shaft type and oil seal).  
 2. Dimensions are in millimeters. Weights are in kilograms (kg) and (pounds (lbs)).

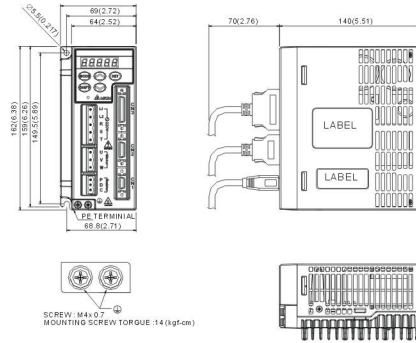
# AC Servo System

# ASDA-AB

## Dimensions of Servo Drive



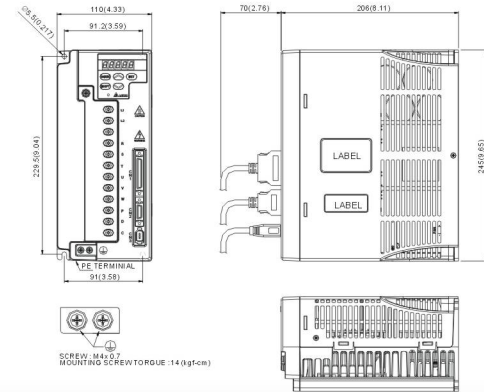
### ASD-A0121-AB • ASD-A0221-AB • ASD-A0421-AB(100W~400W)



Weight  
1.5(3.3)

**NOTE** 1) Dimensions are in millimeters (inches). Weights are in kilograms (kg) and (pounds (lbs)).  
2) Dimensions and weights of the servo drives may be revised without prior notice.

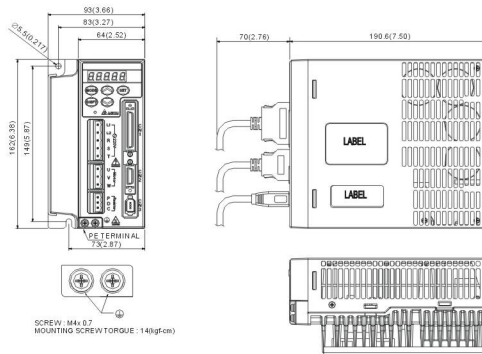
### ASD-A2023 -AB (2kW)



Weight  
3.0(6.6)

**NOTE** 1) Dimensions are in millimeters (inches); Weights are in kilograms (kg) and (pounds (lbs)).  
2) Dimensions and weights of the servo drives may be revised without prior notice.

### ASD-A0721-AB • ASD-A1021-AB • ASD-A1521-AB(750W~1.5kW)



Weight  
2.0(4.4)

**NOTE** 1) Dimensions are in millimeters (inches). Weights are in kilograms (kg) and (pounds (lbs)).  
2) Dimensions and weights of the servo drives may be revised without prior notice.

