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

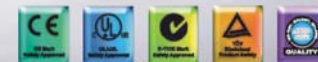


ASDA-AB

DELTA ASDA-AB AC Servo System



ASDA-AB



Features

Complete Functionality

Suitable for wide variety of applications

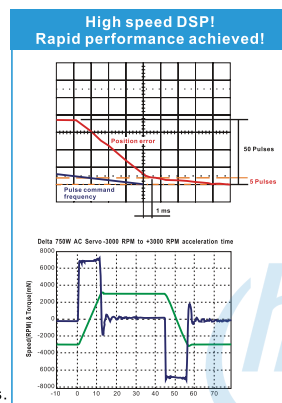
- Built-in Position/Speed/Torque modes.
- Dual control modes.
- Speed / Torque Limit Operation
- Multi-groups of electronic gear ratio
- External JOG function.
- User-defined digital inputs and outputs

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

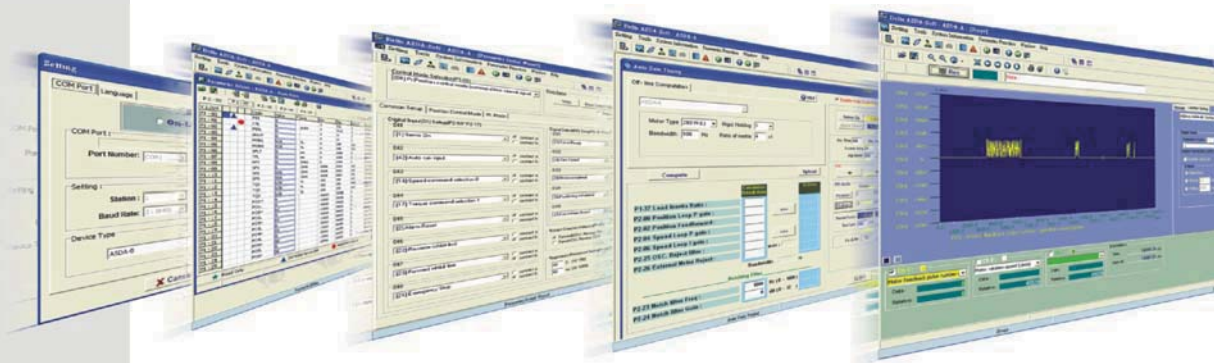
Adjust Gain Settings

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

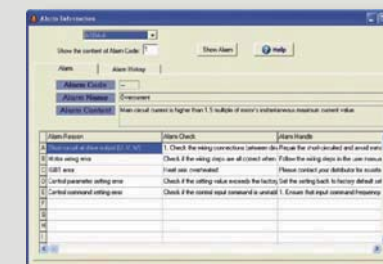
Monitor Operation

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

Complete Tuning



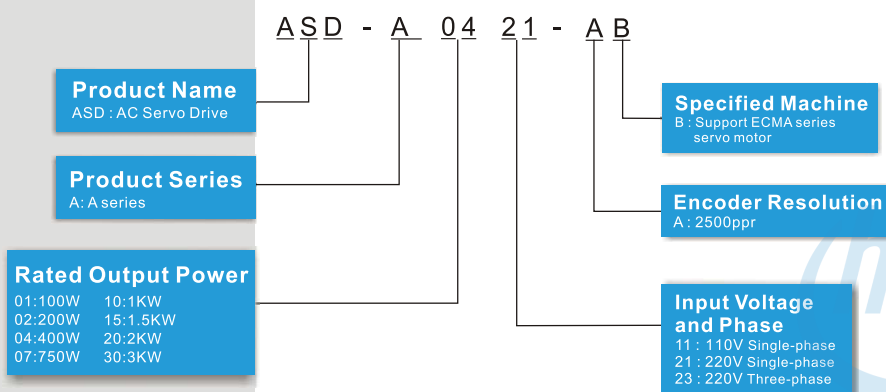
Other Function:



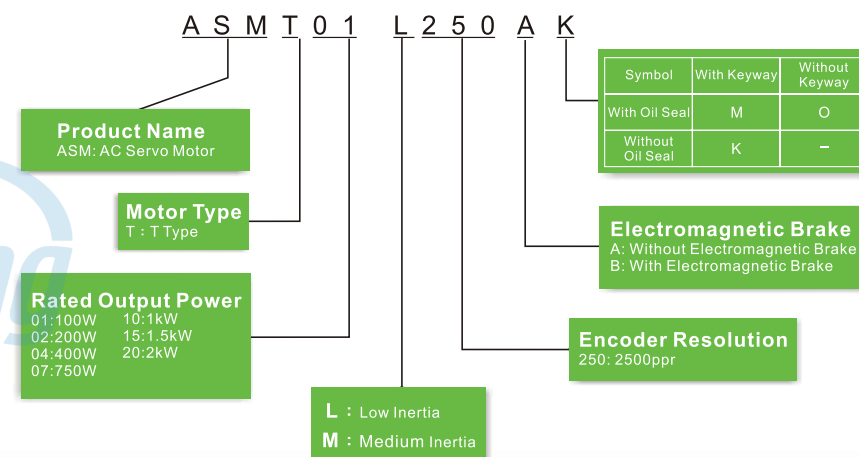
Real-time alarm information display.

Model Name Explanation

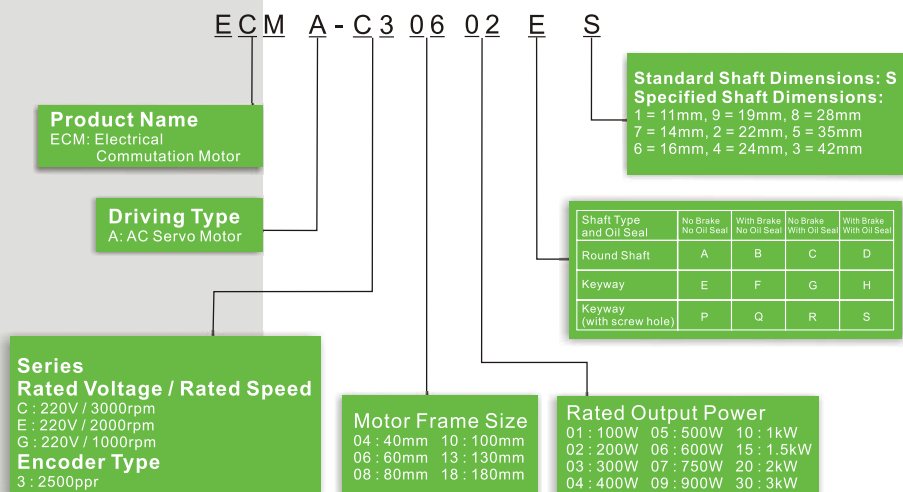
ASDA-AB Series Servo Drive



ASMT Series Servo Motor



ECMA Series Servo Motor



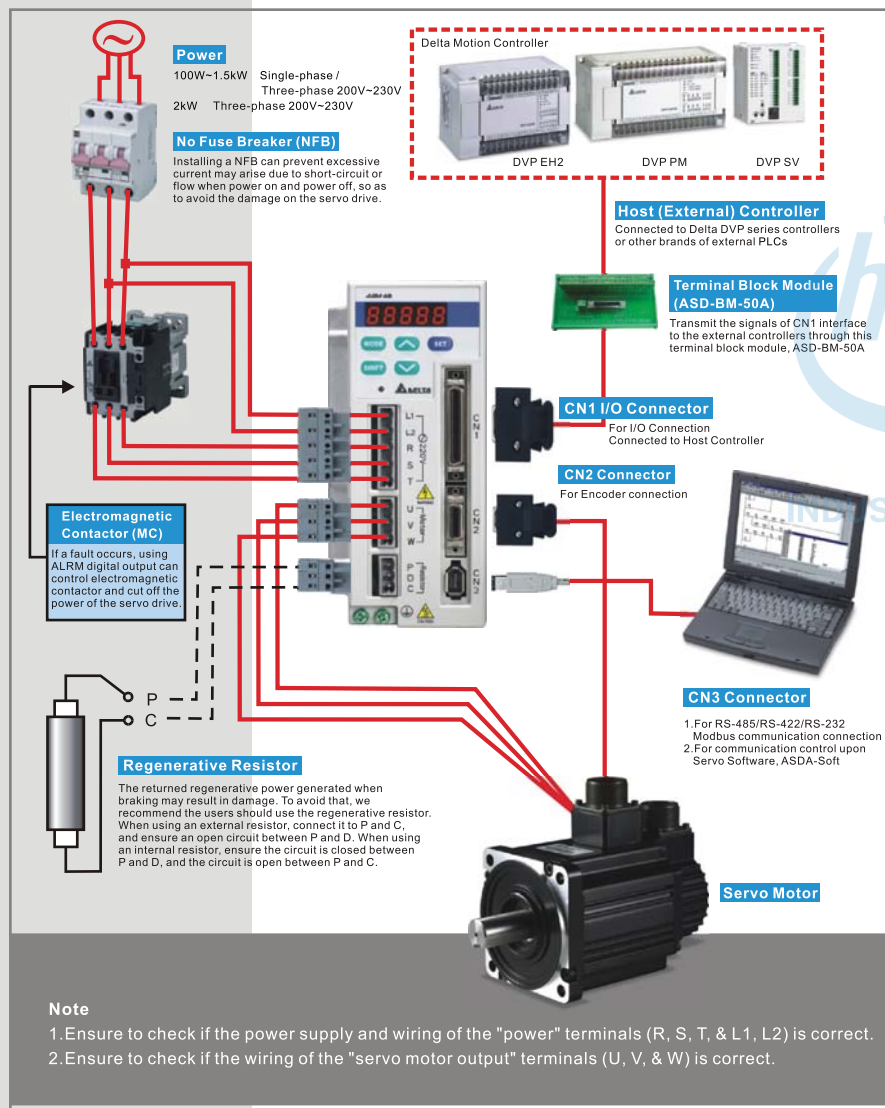
Servo Drive and Servo Motor Combinations

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□□
3000W	ASD-A3023-AB	ECMA-E31830□S(S=35mm)	

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

Configuration and Specifications

System Configuration



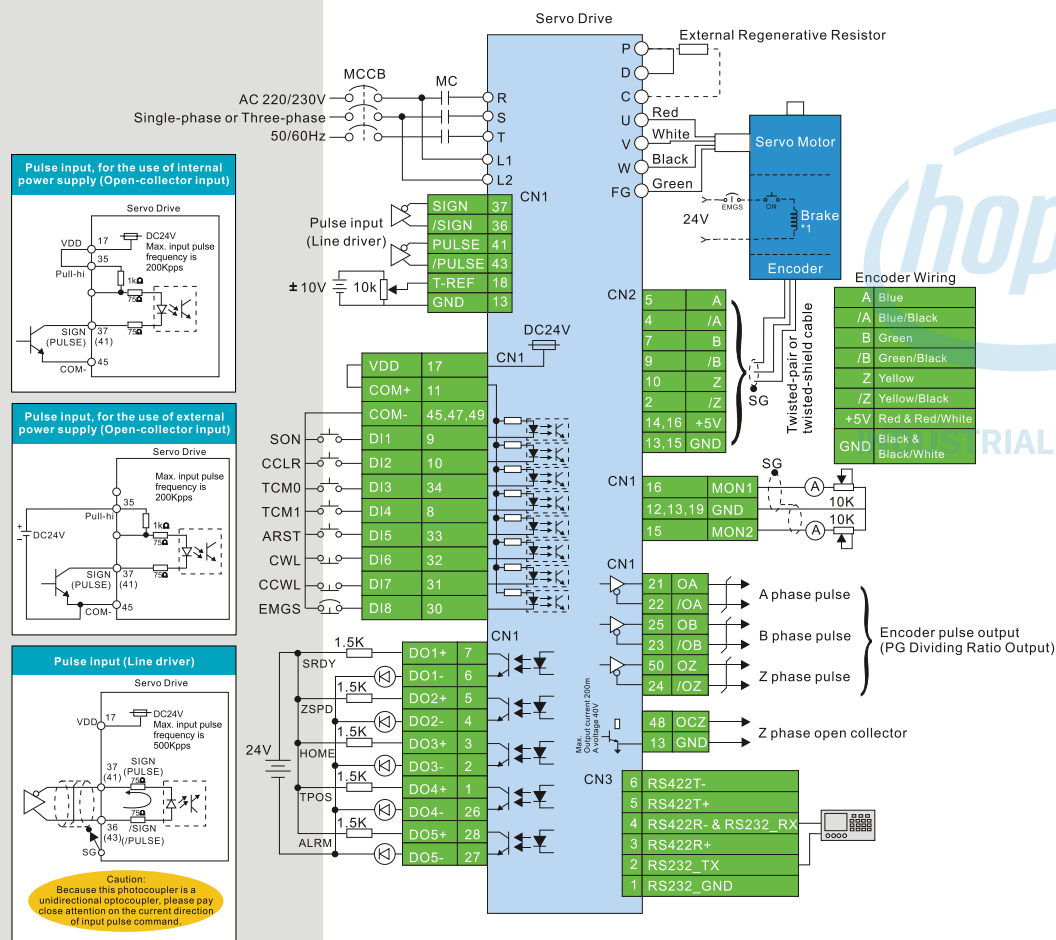
Specifications of Servo Drive (ASDA-AB Series)

ASDA-AB Series			100W	200W	400W	100W	200W	400W	750W	1kW	1.5kW	2kW	3kW	
			01	02	04	01	02	04	07	10	15	20	30	
Power supply	Phase / Voltage		Three-phase: 170~255VAC, 50 / 60Hz±5% Single-phase: 200~255VAC, 50 / 60Hz±5%										Three-phase: 170~255VAC, 50 / 60Hz±5%	
	Continuous Output Current		1.1 Arms	1.7 Arms	3.3 Arms	1.1 Arms	1.7 Arms	3.3 Arms	5.0 Arms	6.8 Arms	10.6 Arms	13.4 Arms	17.5 Arms	
Cooling System			Natural Air Circulation							Fan Cooling				
Encoder Resolution / Feedback Resolution			2500ppr / 10000ppr											
Control of Main Circuit			SVPWM (Space Vector Pulse Width Modulation) Control											
Tuning Modes			Easy / Auto / Manual											
Dynamic Brake			Built-in											
Position Control Mode	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)											
Speed Control Mode	Torque Limit Operation		Set by parameters											
	Feed Forward Compensation		Set by parameters											
	Analog Input Command	Voltage Range	0~±10 Vdc											
		Input Resistance	10K Ω											
	Torque Control Mode	Analog Input Command	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												
Digital Input/Output	Frequency Response Characteristic		Maximum 450Hz											
	Speed Accuracy *2 (at rated rotation speed)		0.01% or less at load fluctuation 0 to 100% 0.01% or less at power fluctuation ±10% 0.01% or less at ambient temperature fluctuation 0°C to 55 °C (32°F to 131°F)											
	Analog Input Command	Voltage Range	0~±10 Vdc											
		Input Resistance	10K Ω											
	Environment	Analog Monitor Output	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: ±8V)											
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) 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											
Protective Functions			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											
Environment	Installation Site		Indoor location (free from direct sunlight), no corrosive liquid and gas (far away from oil mist, flammable gas, dust)											
	Altitude		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) -20°C ~65°C (-4°F to 149°F)											
	Storage Temperature		0~90% (non-condensing)											
	Humidity		9.80665m/s² (1G), less than 20Hz, 5.88m/s² (0.6G) 20 to 50Hz											
	Vibration		IP20											
	IP Rating		TNSystem*3											
Power System														
Approvals			 CE mark Safety Approved  UL mark Safety Approved  TUV mark Safety Approved  RoHS mark Safety Approved											

*1 Rated rotation speed: When full load, speed ratio is defined as the minimum speed (the motor will not pause).
*2 Empty load rotation speed: Empty load rotation speed / Full 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 earth conductor.

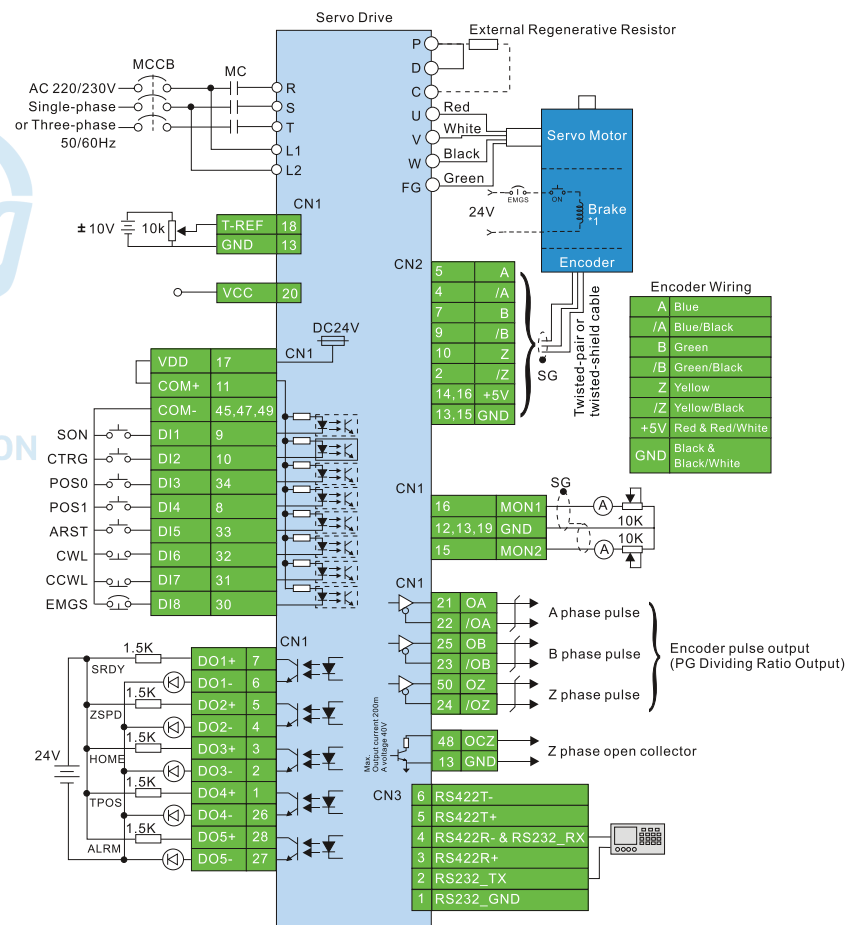
Standard Connections

Position (Pt) Control Mode



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

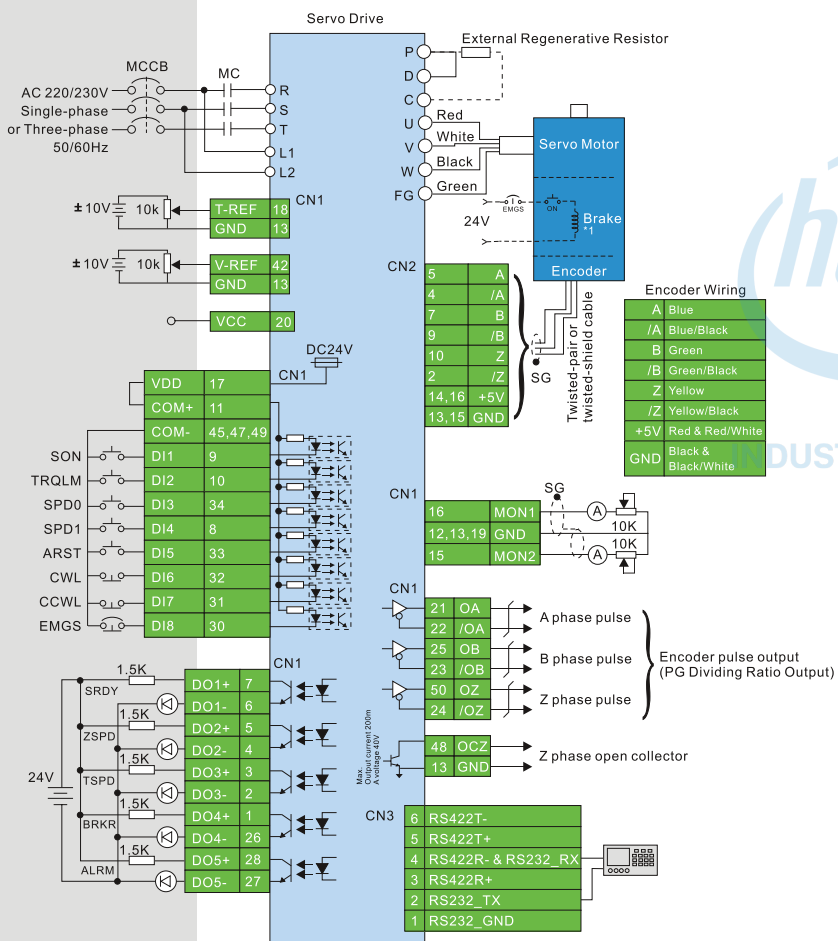
Position (Pr) Control Mode



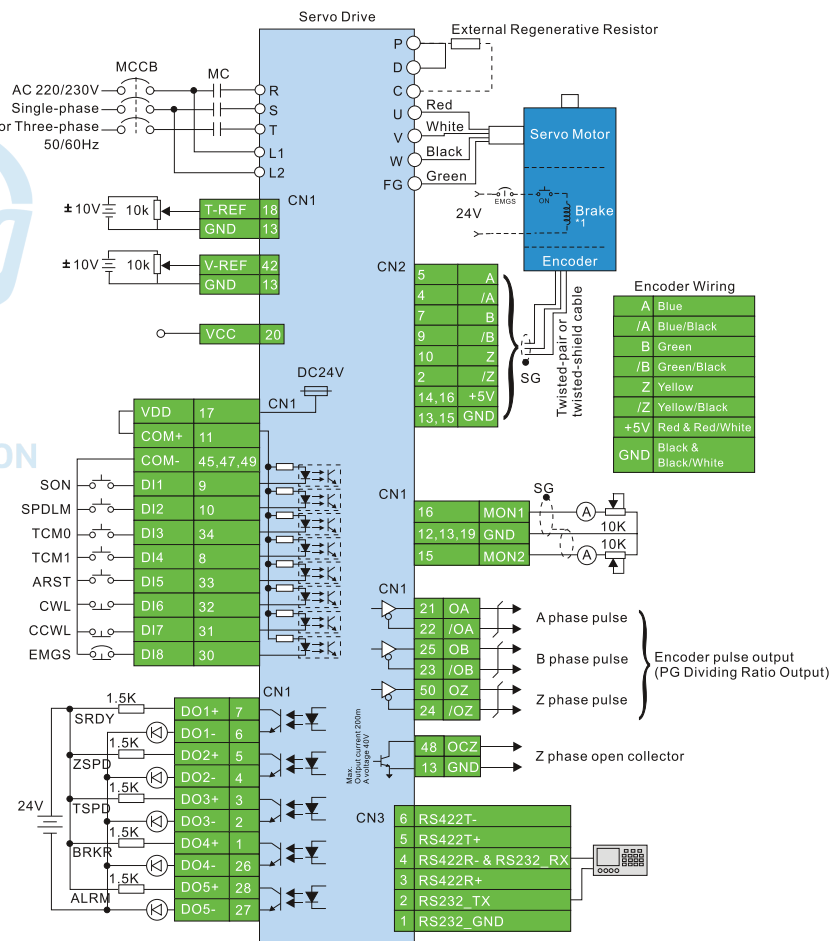
NOTE:
*1. The coil of brake has no polarity.

Standard Connections

Speed (S) Control Mode



Torque (T) Control Mode



Specifications of Servo Motor

(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) *1	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	7.74	15.3	21.9	36.15
Power rating (kW/s) (without brake)	27.7	22.4	57.6	22.1	48.4	38.1	90.6
Rotor moment of inertia (x10 ⁻⁴ kg.m ²) (without brake)	0.037	0.177	0.277	0.68	1.13	2.65	4.45
Mechanical time constant (ms) (without brake)	0.75	0.80	0.53	0.73	0.62	0.74	0.61
Torque constant-KT (N-m/A)	0.36	0.41	0.49	0.49	0.47	0.44	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	8.36	9.3	11.4
Insulation class	Class A (UL), Class B (CE)						
Insulation resistance	100MΩ , DC 500V						
Insulation strength	AC 1500 V, 60 seconds						
Weight (kg) (without brake)	0.5	1.2	1.6	2.1	3.0	4.3	6.2
Weight (kg) (with brake)	0.8	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)	25.6	21.3	53.8	22.1	48.4	30.4	82
Rotor moment of inertia (x10 ⁻⁴ kg.m ²) (with brake)	0.04	0.192	0.30	0.73	1.18	3.33	4.95
Mechanical time constant (ms) (with brake)	0.81	0.85	0.57	0.78	0.65	0.93	0.66
Brake holding torque [Nt-m (min)]	0.3	1.3	1.3	2.5	2.5	8.0	8.0
Brake power consumption (at 20°C) [W]	7.2	6.5	6.5	8.2	8.2	18.5	18.5
Brake release time [ms (Max)]	5	10	10	10	10	10	10
Brake pull-in time [ms (Max)]	25	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	30	03	06	09
Rated output power (kW)	0.5	1.0	1.5	2.0	2.0	3.0	0.3	0.6	0.9
Rated torque (N-m) *1	2.39	4.77	7.16	9.55	9.55	14.32	2.86	5.73	8.59
Maximum torque (N-m)	7.16	14.32	21.48	28.65	28.65	42.97	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	16.1	2.5	4.8	7.5
Maximum current (A)	8.7	16.8	24.81	33.0	33.66	48.3	7.44	14.49	22.5
Power rating (kW/s) (without brake)	7.0	27.1	45.9	62.5	26.3	37.3	10.0	39.0	66.0
Rotor moment of inertia (x10 ⁻⁴ kg.m ²) (without brake)	8.17	8.41	11.18	14.59	34.68	54.95	8.17	8.41	11.18
Mechanical time constant (ms) (without brake)	1.91	1.51	1.11	0.96	1.62	1.06	1.84	1.40	1.07
Torque constant-KT (N-m/A)	0.83	0.85	0.87	0.87	0.85	0.89	1.15	1.19	1.15
Voltage constant-KE (mV/(r/min))	30.9	31.9	31.8	31.8	31.4	32.0	42.5	43.8	41.6
Armature resistance (Ohm)	0.57	0.47	0.26	0.174	0.119	0.052	1.06	0.82	0.43
Armature inductance (mH)	7.39	5.99	4.01	2.76	2.84	1.38	14.29	11.12	6.97
Electrical time constant (ms)	12.96	12.88	15.31	15.86	23.87	26.39	13.55	13.55	16.06
Insulation class	Class A (UL), Class B (CE)								
Insulation resistance	100MΩ, DC 500V								
Insulation strength	AC 1500 V, 60 seconds								
Weight (kg) (without brake)	6.8	7	7.5	7.8	13.5	18.5	6.8	7	7.5
Weight (kg) (with brake)	8.2	8.4	8.9	9.2	17.5	22.5	8.2	8.4	8.9
Max. radial shaft load (N)	490	490	490	490	1176	1470	490	490	490
Max. thrust shaft load (N)	98	98	98	98	490	490	98	98	98
Power rating (kW/s) (with brake)	6.4	24.9	43.1	59.7	24.1	35.9	9.2	35.9	62.1
Rotor moment of inertia (x10 ⁻⁴ kg.m ²) (with brake)	8.94	9.14	11.90	15.88	37.86	57.06	8.94	9.14	11.9
Mechanical time constant (ms) (with brake)	2.07	1.64	1.19	1.05	1.77	1.10	2.0	1.51	1.13
Brake holding torque [Nt-m (min)]	10.0	10.0	10.0	10.0	25.0	25.0	10.0	10.0	10.0
Brake power consumption (at 20°C) [W]	19.0	19.0	19.0	19.0	20.1	20.1	19.0	19.0	19.0
Brake release time [ms (Max)]	10	10	10	10	10	10	10	10	10
Brake pull-in time [ms (Max)]	70	70	70	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	CE cRUUS								

Footnote: *1 Rate torque values are continuous permissible values at 0~40°C ambient temperature when attaching with the sizes of heatsinks listed below.
ECMA-04: 0.1kW: 250mm x 250mm x 6mm; ECMA-10: 300mm x 300mm x 12mm
ECMA-13: 400mm x 400mm x 20mm; ECMA-18: 550mm x 550mm x 30mm
Material type: Aluminum F40, F60, F80, F100, F130, F180

Footnote: *1 Rate torque values are continuous permissible values at 0~40°C ambient temperature when attaching with the sizes of heatsinks listed below.
ECMA-05: 0.5kW: 250mm x 250mm x 6mm; ECMA-10: 300mm x 300mm x 12mm
ECMA-13: 400mm x 400mm x 20mm; ECMA-18: 550mm x 550mm x 30mm
Material type: Aluminum F40, F60, F80, F100, F130, F180

Specifications of Servo Motor

(ASMT □ L) Low Inertia Servo Motor Specifications

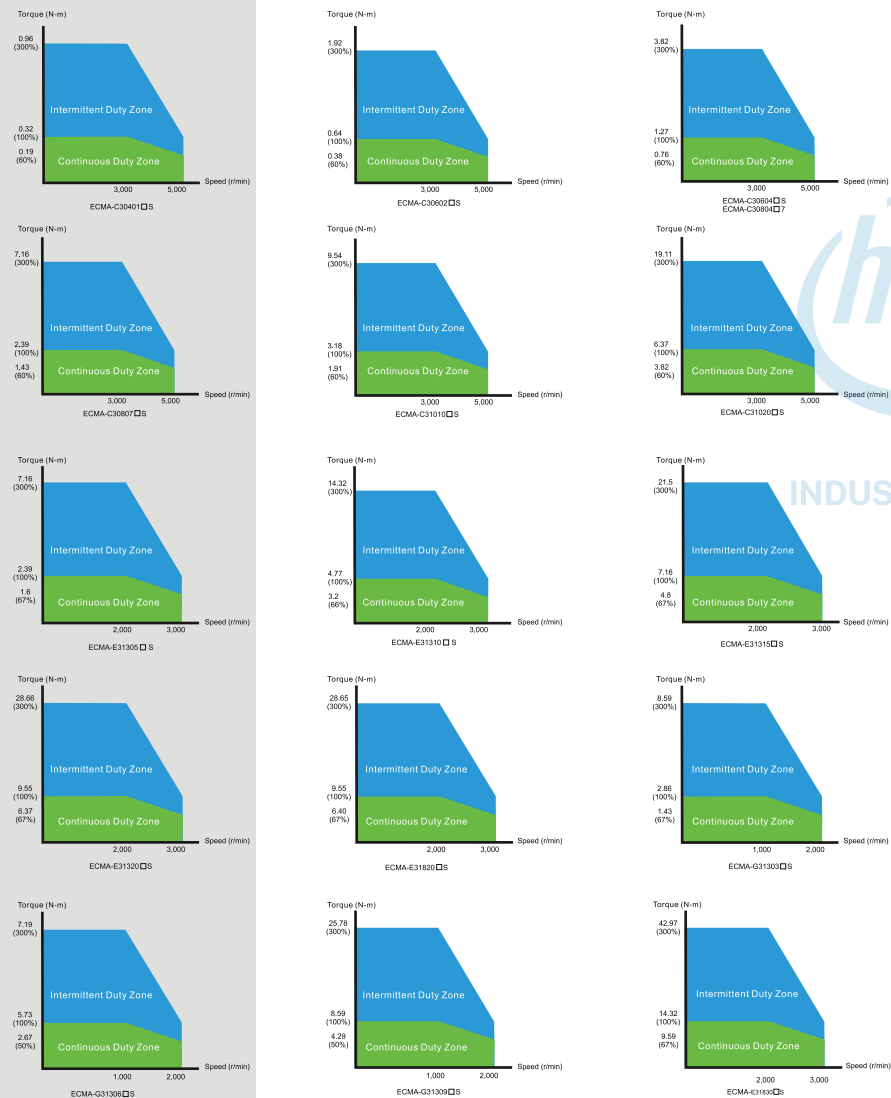
Model: ASMT □ □ L250 □ □		100W	200W	400W	750W	1kW	2kW
		01	02	04	07	10	20
Specifications	Rated output power (kW)	0.1	0.2	0.4	0.75	1.0	2.0
	Rated torque (N-m)	0.318	0.64	1.27	2.39	3.3	6.8
	Maximum torque (N-m)	0.95	1.91	3.82	7.16	9.9	19.2
	Rated speed (r/min)	3000					
	Maximum speed (r/min)	5000					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 ²) (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					
Environment	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 ²) (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, UI1004 CE UL					

(ASMT □ M) Medium Inertia Servo Motor Specifications

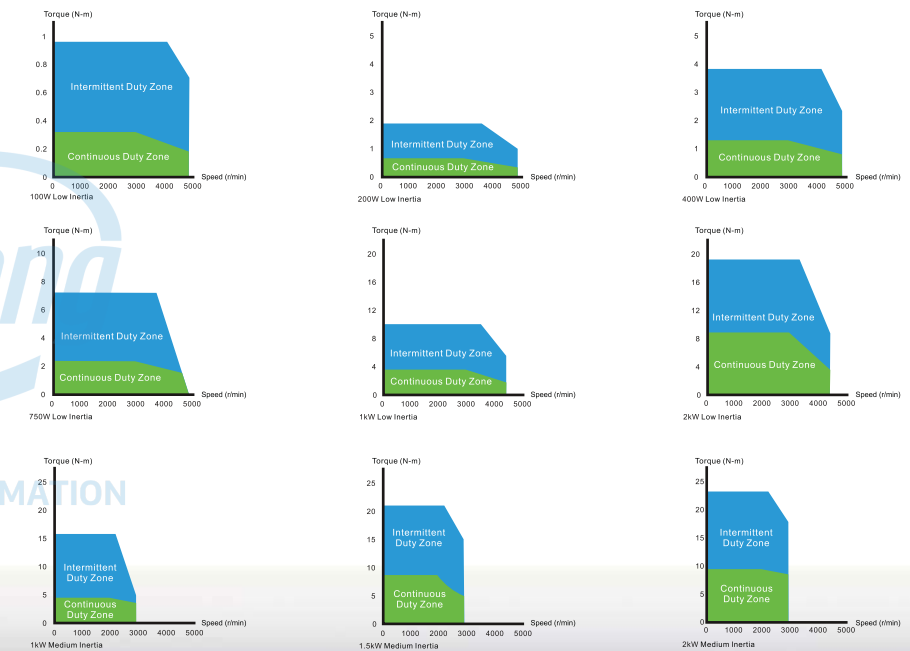
Model: ASMT □ □ M250 □ □		1kW	1.5kW	2kW
		10	15	20
Specifications	Rated output power (kW)	1.0	1.5	2.0
	Rated torque (N-m)	4.8	7.16	9.4
	Maximum torque (N-m)	15.7	21.5	23.5
	Rated speed (r/min)	2000		
	Maximum speed (r/min)	3000		
	Rated current (A)	5.6	10.6	13.1
	Maximum current (A)	17.6	30.3	31.4
	Power rating (kW/s)	38.4	58.3	55.6
	Rotor moment of inertia (Kg.m ²) (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		
Environment	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 ²) (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, UI1004 CE UL		

Speed-Torque Curves

ECMA Series



ASMT Series



Accessories

(ECMA Series) Power Connector

ASDBCAPW0000



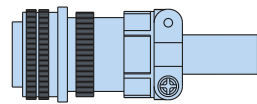
Title	Part No.	Manufacturer
Housing	C4201H00-2*2PA	JOWLE
Terminal	C4201TOP-2	JOWLE

ASDBCAPW0100



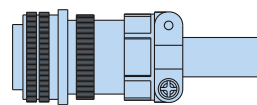
Title	Part No.	Manufacturer
Housing	C4201H00-2*3PA	JOWLE
Terminal	C4201TOP-2	JOWLE

ASD-CAPW1000



MS 3106A-20-18S

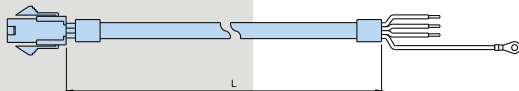
ASD-CAPW2000



MS 3106A-24-11S

(ECMA Series) Power Cable

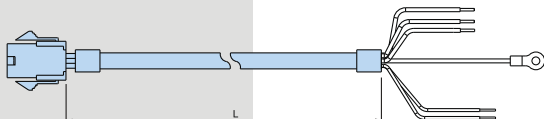
ASD-ABPW0003/0005



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

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

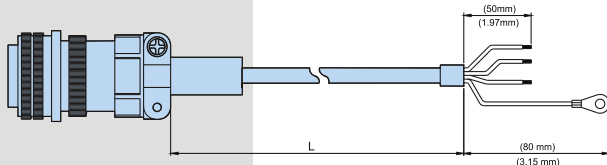
ASD-ABPW0103/0105



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

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

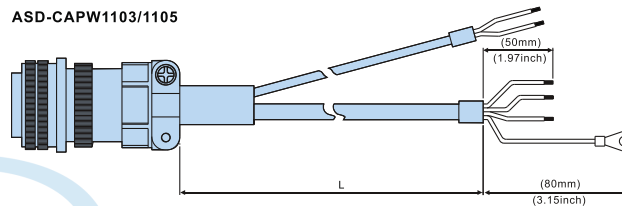
ASD-CAPW1003/1005



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

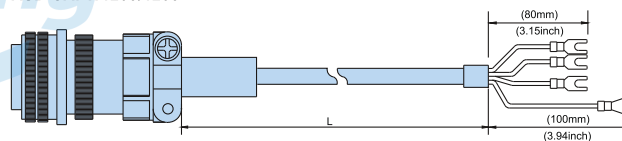
(ECMA Series) Power Cable

ASD-CAPW1103/1105



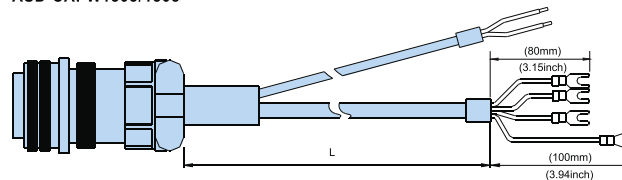
Item	Part No.	Straight	mm	L	inc
1	ASD-CAPW1103	3106A-20-18S	3000±100	118±4	
2	ASD-CAPW1105	3106A-20-18S	5000±100	197±4	

ASD-CAPW1203/1205



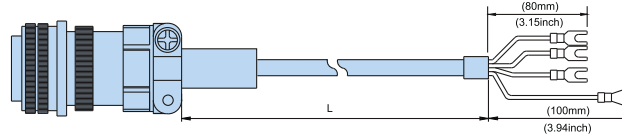
Item	Part No.	Straight	mm	L	inc
1	ASD-CAPW1203	3106A-20-18S	3000±100	118±4	
2	ASD-CAPW1205	3106A-20-18S	5000±100	197±4	

ASD-CAPW1303/1305



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

ASD-CAPW2203/2205

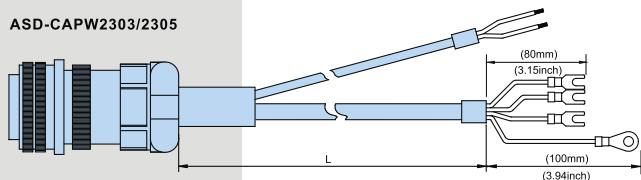


Item	Part No.	Straight	mm	L	inc
1	ASD-CAPW2203	3106A-24-11S	3000±100	118±4	
2	ASD-CAPW2205	3106A-24-11S	5000±100	197±4	

Accessories

(ECMA Series) Power Cable

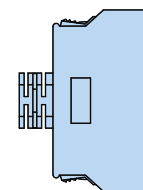
ASD-CAPW2303/2305



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

(ECMA Series) I/O Signal Connector

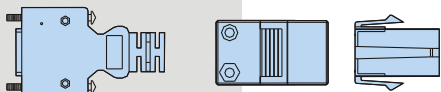
ASD-CN5C0050



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

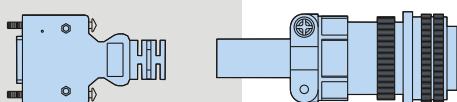
(ECMA Series) Encoder Connector

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

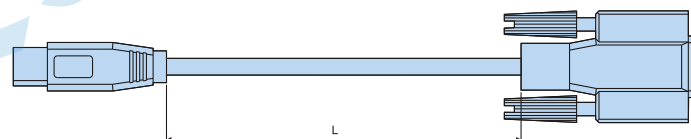
ASD-CAEN1000



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

(ECMA Series) Communication Cable (for PC)

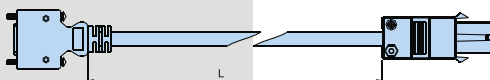
ASD-CARS0003



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

(ECMA Series) Encoder Cable

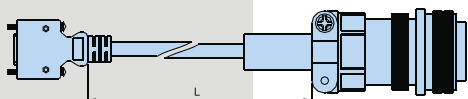
ASD-ABEN0003/0005



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.	mm	L	inc
1	ASD-ABEN0003	3000±100	118±4	
2	ASD-ABEN0005	5000±100	197±4	

ASD-CAEN1003/1005

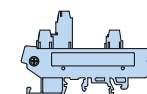
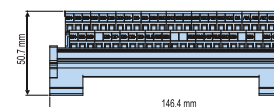
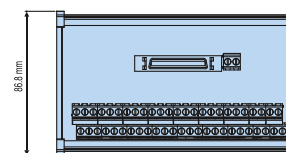
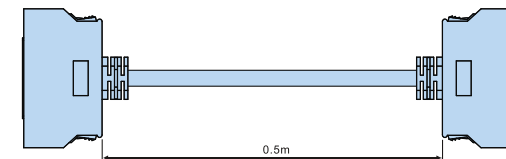


Title	Part No.	Manufacturer
MOTOR SIDE	3106A-20-29S	-----
	PLUG	3M 10120-3000PE
DRIVE SIDE	3M 10120-3000PE	3M
	SHELL	3M 10320-52A0-008

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

(ECMA Series) Terminal Block

ASD-BM-50A



Accessories

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

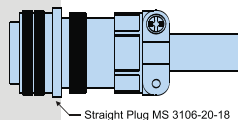
ASD-CAPW0000
AMP:350780-1



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)

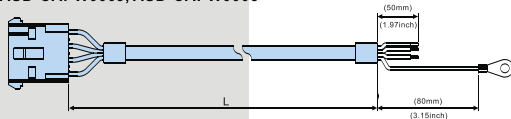
ASD-CAPW1000
CLAMP:MS3057-12A



Straight Plug MS 3106-20-18

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

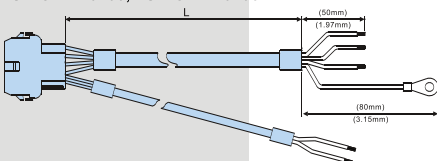
ASD-CAPW0003, ASD-CAPW0005



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)

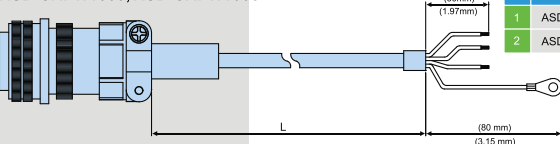
ASD-CAPW0103, ASD-CAPW0105



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 Connector (for 100W~750W motors with brake)

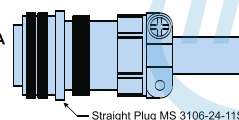
ASD-CAPW0100
AMP:350781-1



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)

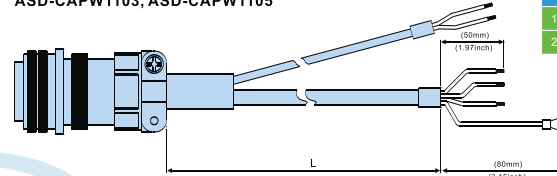
ASD-CAPW2000
CLAMP:MS3057-16A



Straight Plug MS 3106-24-11S

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

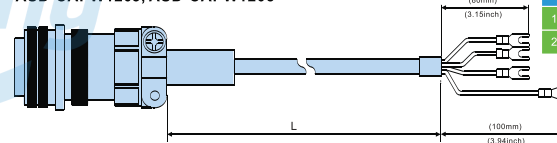
ASD-CAPW1103, ASD-CAPW1105



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)

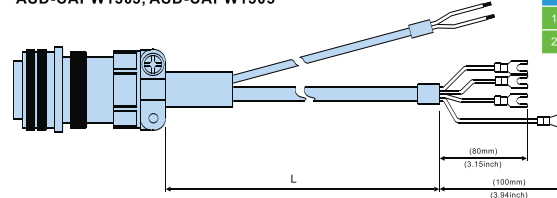
ASD-CAPW1203, ASD-CAPW1205



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)

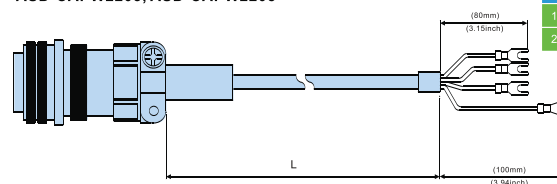
ASD-CAPW1303, ASD-CAPW1305



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

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

The diagram illustrates the ASD-1000 cable assembly. It features a blue cable with a braided shield and a connector on one end. The cable is shown in two segments, with a break in the middle. The total length of the cable is labeled as 'L'. The dimensions are given in both millimeters (mm) and inches (inch). The cable length is 80mm (3.15inch). The connector length is 100mm (3.94inch). The connector is labeled 'ASD-1000' and 'ASD-1000'.

Component	Length (mm)	Length (inch)
Cable	80	3.15
Connector	100	3.94

Item	Part No.	Straight plug	L	
			mm	inc
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)

Vendor Name	Vendor P/N
3M TAIWAN LTD	10120-3000VE
3M TAIWAN LTD	10320-52A0-008

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

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

Diagram illustrating the laser welding setup. The laser head has a diameter of 92mm. The laser tube length is 130mm. The workpiece has a diameter of 100mm. The distance between the laser head and the workpiece is labeled L.

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

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

A diagram of a cable assembly. On the left is a blue connector with a rectangular face. A cable extends to the right, showing a section of the outer jacket that is frayed and broken, labeled with the letter 'L'. The cable then continues as a solid blue tube to a second blue connector on the right. This second connector has a circular face with a cross-like pattern and a series of black rings at its end.

Item	Part No.	Straight plug	L	
			mm	inc
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



Vendor Name	Vendor P/N
3M TAIWAN LTD	1015-3000VE
3M TAIWAN LTD	10350-52A0-008

(ASMT Series) Terminal Block

ASD-BM-50A

114 mm

0.5 m

114 mm

156.4 mm

156.4 mm

(ASMT Series) I/O Signal Connector

ASD-CARS0003

Item	Part No.	L	
		mm	inc
1	ASD-CARS0003	3000±100	118±

Accessories Cross Reference

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	40Ω	60W	60Ω 100W	40Ω
0.2	40Ω	60W	60Ω 200W	40Ω
0.4	40Ω	60W	30Ω 400W	20Ω
0.75	40Ω	60W	30Ω 750W	20Ω
1.0	40Ω	60W	30Ω 1kW	20Ω
1.5	40Ω	60W	30Ω 1kW	20Ω
2.0 / 3.0	20Ω	100W	15Ω 1kW	10Ω

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.



Other Accessories (for ASDA-AB series all models)	
Description	Delta Part Number
50-Pin I/O Signal Connector (CN1)	ASD-CNSC0050
Communication Cable (for PC), connecting a ASDA-AB series servo drive and a PC	ASD-CARS0003
Terminal Block	ASD-BM-50A

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	5M
	Motor Power Cable ASD-ABPW0003	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	5M	3M	5M
	Motor Power Cable ASD-ABPW0003	Motor Power Cable ASD-ABPW0005	Motor Power Cable ASD-ABPW0103	Motor Power Cable ASD-ABPW0105
	Encoder Cable ASD-ABEN0003	Encoder Cable ASD-ABEN0005	Encoder Cable ASD-ABEN0003	Encoder Cable ASD-ABEN0005
	Power Connector ASDBCAPW0000		Power Connector ASDBCAPW0100	
Connector	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	5M	3M	5M
	Motor Power Cable ASD-ABPW0003	Motor Power Cable ASD-ABPW0005	Motor Power Cable ASD-ABPW0103	Motor Power Cable ASD-ABPW0105
	Encoder Cable ASD-ABEN0003	Encoder Cable ASD-ABEN0005	Encoder Cable ASD-ABEN0003	Encoder Cable ASD-ABEN0005
	Power Connector ASDBCAPW0000		Power Connector ASDBCAPW0100	
Connector	Encoder Connector ASD-ABEN0000			

Accessories Cross Reference

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	Motor Power Cable ASD-CAPW1005	Motor Power Cable ASD-CAPW1103	Motor Power Cable ASD-CAPW1105
Connector	Encoder Cable ASD-CAEN1003	Encoder Cable ASD-CAEN1005	Encoder Cable ASD-CAEN1003	Encoder Cable ASD-CAEN1005
	Power Connector ASD-CAPW1000			
Encoder Connector	Encoder Connector ASD-CAEN1000			

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	Motor Power Cable ASD-CAPW1005	Motor Power Cable ASD-CAPW1103	Motor Power Cable ASD-CAPW1105
Encoder Connector	Encoder Cable ASD-CAEN1003	Encoder Cable ASD-CAEN1005	Encoder Cable ASD-CAEN1003	Encoder Cable ASD-CAEN1005
	Power Connector ASD-CAPW1000			
Encoder Connector	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	Motor Power Cable ASD-CAPW1005	Motor Power Cable ASD-CAPW1103	Motor Power Cable ASD-CAPW1105
Encoder Connector	Encoder Cable ASD-CAEN1003	Encoder Cable ASD-CAEN1005	Encoder Cable ASD-CAEN1003	Encoder Cable ASD-CAEN1005
	Power Connector ASD-CAPW1000			
Encoder Connector	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	Motor Power Cable ASD-CAPW1005	Motor Power Cable ASD-CAPW1103	Motor Power Cable ASD-CAPW1105
Encoder Connector	Encoder Cable ASD-CAEN1003	Encoder Cable ASD-CAEN1005	Encoder Cable ASD-CAEN1003	Encoder Cable ASD-CAEN1005
	Power Connector ASD-CAPW1000			
Encoder Connector	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	Motor Power Cable ASD-ABPW0005	Motor Power Cable ASD-ABPW0103	Motor Power Cable ASD-ABPW0105
	Encoder Cable ASD-ABEN0003	Encoder Cable ASD-ABEN0005	Encoder Cable ASD-ABEN0003	Encoder Cable ASD-ABEN0005
	Power Connector ASDBCAPW0000		Power Connector ASDBCAPW0100	
Connector	Encoder Connector ASD-ABEN0000			

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	Motor Power Cable ASD-CAPW1005	Motor Power Cable ASD-CAPW1103	Motor Power Cable ASD-CAPW1105
Encoder Connector	Encoder Cable ASD-CAEN1003	Encoder Cable ASD-CAEN1005	Encoder Cable ASD-CAEN1003	Encoder Cable ASD-CAEN1005
	Power Connector ASD-CAPW1000			
Encoder Connector	Encoder Connector ASD-CAEN1000			

Accessories Cross Reference

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

Servo Drive	ASD-A1021-AB			
High Inertia Servo Motor	ECMA-G31309□S			
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
Connector	Encoder Cable ASD-CAEN1003	Encoder Cable ASD-CAEN1005	Encoder Cable ASD-CAEN1003	Encoder Cable ASD-CAEN1005
	Power Connector ASD-CAPW1000			
Encoder Connector	Encoder Connector ASD-CAEN1000			

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

Servo Drive	ASD-A2023-AB			
Medium Inertia Servo Motor	ECMA-E31320□S			
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
Connector	Encoder Cable ASD-CAEN1003	Encoder Cable ASD-CAEN1005	Encoder Cable ASD-CAEN1003	Encoder Cable ASD-CAEN1005
	Power Connector ASD-CAPW1000			
Encoder Connector	Encoder Connector ASD-CAEN1000			

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

Servo Drive	ASD-A1521-AB			
Medium Inertia Servo Motor	ECMA-E31315□S			
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
Connector	Encoder Cable ASD-CAEN1003	Encoder Cable ASD-CAEN1005	Encoder Cable ASD-CAEN1003	Encoder Cable ASD-CAEN1005
	Power Connector ASD-CAPW1000			
Encoder Connector	Encoder Connector ASD-CAEN1000			

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

Servo Drive	ASD-A2023-AB			
Medium Inertia Servo Motor	ECMA-E31820□S			
Cable	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
Connector	Encoder Cable ASD-CAEN1003	Encoder Cable ASD-CAEN1005	Encoder Cable ASD-CAEN1003	Encoder Cable ASD-CAEN1005
	Power Connector ASD-CAPW2000			
Encoder Connector	Encoder Connector ASD-CAEN1000			

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

Servo Drive	ASD-A2023-AB			
Low Inertia Servo Motor	ECMA-C31020□S			
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
Connector	Encoder Cable ASD-CAEN1003	Encoder Cable ASD-CAEN1005	Encoder Cable ASD-CAEN1003	Encoder Cable ASD-CAEN1005
	Power Connector ASD-CAPW1000			
Encoder Connector	Encoder Connector ASD-CAEN1000			

3kW Servo Drive and 3kW Medium Inertia Servo Motor (ECMA Series)

Servo Drive	ASD-A3023-AB			
Medium Inertia Servo Motor	ECMA-E31830□S			
Cable	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
Connector	Encoder Cable ASD-CAEN1003	Encoder Cable ASD-CAEN1005	Encoder Cable ASD-CAEN1003	Encoder Cable ASD-CAEN1005
	Power Connector ASD-CAPW2000			
Encoder Connector	Encoder Connector ASD-CAEN1000			

Accessories Cross Reference

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
	Power Connector ASD-CAPW0000		Power Connector ASD-CAPW0100	
Connector	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
	Power Connector ASD-CAPW0000		Power Connector ASD-CAPW0100	
Connector	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
	Power Connector ASD-CAPW0000		Power Connector ASD-CAPW0100	
Connector	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
	Power Connector ASD-CAPW1000		Power Connector ASD-CAPW1100	
Connector	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
	Power Connector ASD-CAPW0000		Power Connector ASD-CAPW0100	
Connector	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
	Power Connector ASD-CAPW1000		Power Connector ASD-CAPW1100	
Connector	Encoder Connector ASD-CAEN1000			

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
	Power Connector ASD-CAPW1000		Power Connector ASD-CAPW1100	
Connector	Encoder Connector ASD-CAEN1000			

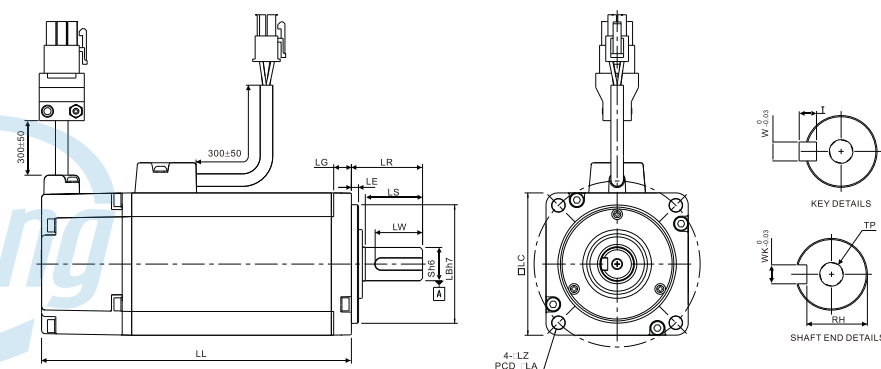
2kW Servo Drive and 2kW Low Inertia Servo Motor (ASMT Series)

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
	Power Connector ASD-CAPW1000		Power Connector ASD-CAPW1100	
Connector	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)

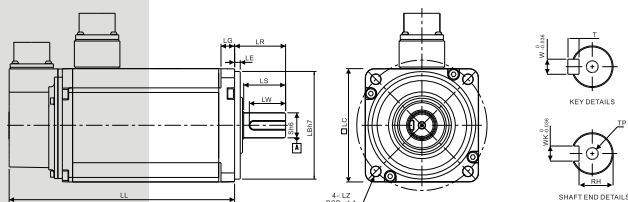


Model	C30401□S	C30602□S	C30604□S	C30804□7	C30807□S
LC	40	60	60	80	80
LZ	4.5	5.5	5.5	6.6	6.6
LA	46	70	70	90	90
S	8 ^(+0/-0.009)	14 ^(+0/-0.011)	14 ^(+0/-0.011)	14 ^(+0/-0.011)	19 ^(+0/-0.013)
LB	30 ^(+0/-0.021)	50 ^(+0/-0.025)	50 ^(+0/-0.025)	70 ^(+0/-0.030)	70 ^(+0/-0.030)
LL (w/o brake)	100.6	105.5	130.7	112.3	138.3
LL (with brake)	136.6	141.6	166.8	152.8	178
LS (w/o oilseal)	20	27	27	27	32
LS (with oilseal)	20	24	24	24.5	29.5
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
TP	M3 Depth 8	M4 Depth 15	M4 Depth 15	M4 Depth 15	M6 Depth 20

NOTE 1) Dimensions are in millimeters.
2) Dimensions and weights of the servo motor may be revised without prior notice.
3) The boxes (□) in the model names are for optional configurations. (Please refer to section 1.2 for model explanation.)

Dimensions of Servo Motor

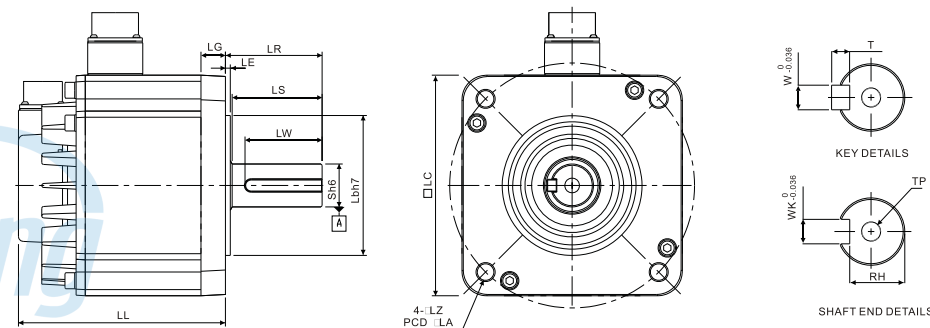
ECMA Series Motor Frame Size: 100mm ~ 130mm (Units: mm)



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(+0.013) (-0.013)	22(+0.013) (-0.013)	22(+0.013) (-0.013)	22(+0.013) (-0.013)	22(+0.013) (-0.013)
LB	110(+0.035) (-0.035)	110(+0.035) (-0.035)	110(+0.035) (-0.035)	110(+0.035) (-0.035)	95(+0.035) (-0.035)
LL (without brake)	147.5	147.5	147.5	163.5	153.3
LL (with brake)	183.5	183.5	183.5	198	192.5
LS	47	47	47	47	37
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
TP	M6 Depth 20	M6 Depth 20	M6 Depth 20	M6 Depth 20	M6 Depth 20

Model	E31310□S	E31315□S	C31020□S	E31320□S
LC	130	130	100	130
LZ	9	9	9	9
LA	145	145	115	145
S	22(+0.013) (-0.013)	22(+0.013) (-0.013)	22(+0.013) (-0.013)	22(+0.013) (-0.013)
LB	110(+0.035) (-0.035)	110(+0.035) (-0.035)	95(+0.035) (-0.035)	110(+0.035) (-0.035)
LL (without brake)	147.5	167.5	199	187.5
LL (with brake)	183.5	202	226	216
LS	47	47	37	47
LR	55	55	45	55
LE	6	6	5	6
LG	11.5	11.5	12	11.5
LW	36	36	32	36
RH	18	18	18	18
WK	8	8	8	8
W	8	8	8	8
T	7	7	7	7
TP	M6 Depth 20	M6 Depth 20	M6 Depth 20	M6 Depth 20

ECMA Series Motor Frame Size: 180mm (Units: mm)

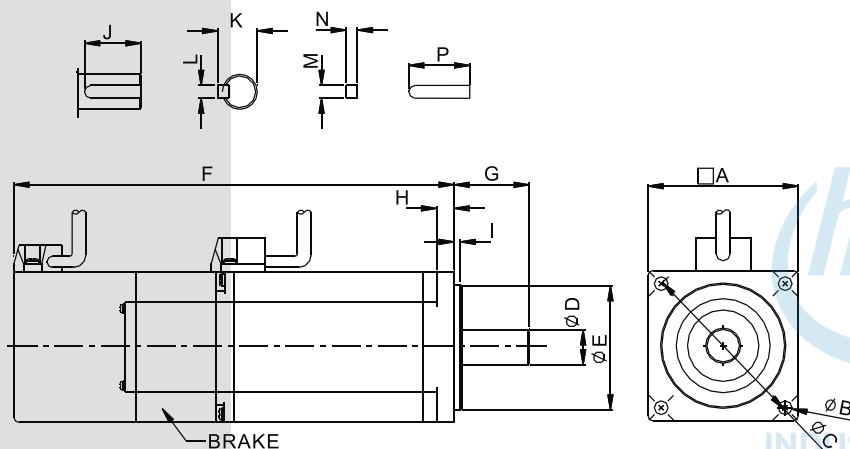


Model	E31820□S	E31830□S
LC	180	180
LZ	13.5	13.5
LA	200	200
S	35(+0.016) (-0.016)	35(+0.016) (-0.016)
LB	114.3(+0.035) (-0.035)	114.3(+0.035) (-0.035)
F (Without Brake)	169	202.1
F (With Brake)	203.1	235.3
LS	73	73
LR	79	79
LE	4	4
LG	20	20
LW	63	63
RH	30	30
WK	10	10
W	10	10
T	8	8
TP	M12 Depth 25	M12 Depth 25

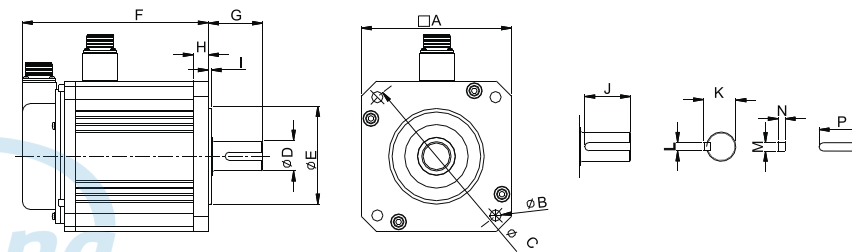
NOTE 1) Dimensions are in millimeters.
2) Dimensions and weights of the servo motor may be revised without prior notice.
3) The boxes (□) in the model names are for optional configurations. (Please refer to section 1.2 for model explanation.)

Dimensions of Servo Motor

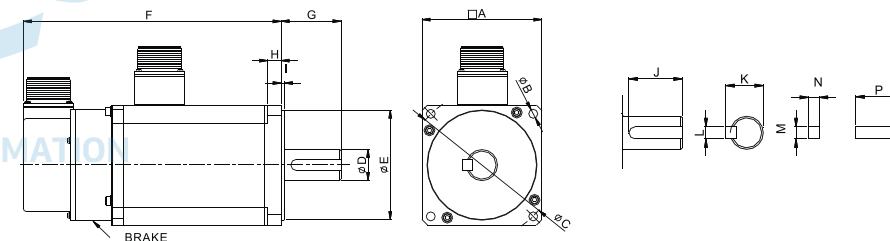
ASMT Series 100W to 750W Low Inertia Servo Motors (Units: mm)



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



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

Model	ASMT10M250□□	ASMT15M250□□	ASMT20M250□□	ASMT10L250□□	ASMT20L250□□
Power (W)	1000	1500	2000	1000	2000
A	130	130	180	100	100
B	9	9	13.5	9	9
C	145 +0.2 -0.2	145 +0.2 -0.2	200 +0.2 -0.2	115 +0.2 -0.2	115 +0.2 -0.2
D	22h6 +0.0 -0.013	22h6 +0.0 -0.013	35h6 +0.0 -0.016	22h6 +0.0 -0.013	22h6 +0.0 -0.013
E	110h7 +0.0 -0.035	110h7 +0.0 -0.035	114.3h7 +0.0 -0.035	95h7 +0.0 -0.035	95h7 +0.0 -0.035
F (Without Brake)	143	158	164	158	194
F (With Brake)	181	196	213	190	226
G	55	55	75	45	55
H	15	15	20	17	17
I	4	4	4	7	7
J	44	44	65	34	44
K	25 +0.0 -0.1	25 +0.0 -0.1	38 +0.0 -0.2	25 +0.0 -0.2	25 +0.0 -0.2
L	8h9 -0.0 -0.036	8h9 -0.0 -0.036	10h9 -0.0 -0.036	8h9 +0.0 -0.036	8h9 -0.0 -0.036
M	8	8	10	8	8
N	7	7	8	7	7
P	40	40	60	30	40
Weight (Without Brake)	4.8(10.58)	7.0(15.43)	12.0(26.46)	4.7(10.36)	6.7(12.57)
Weight (With Brake)	7.5(16.53)	9.7(21.38)	19.0(41.89)	6.3(13.89)	8.3(16.09)

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

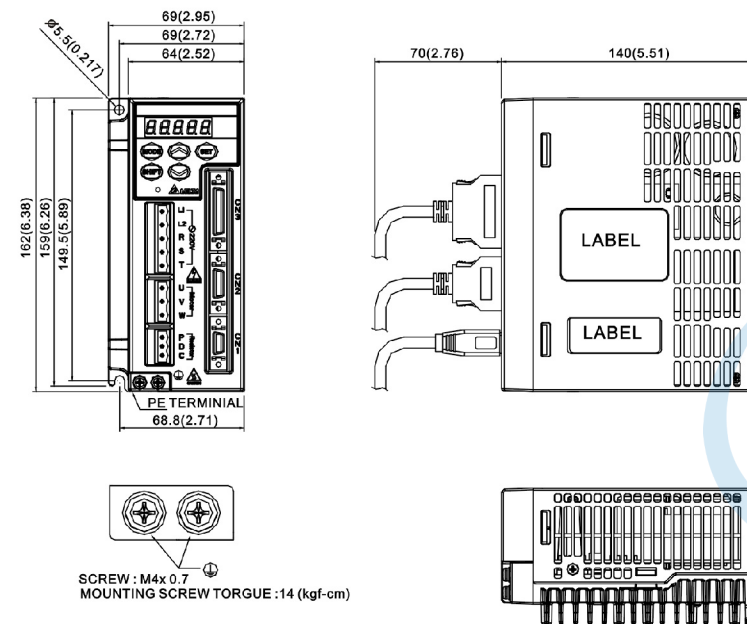
AC Servo System

CÔNG TY CỔ PHẦN CÔNG NGHỆ HỢP LONG

ASDA-AB

Dimensions of Servo Drive

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

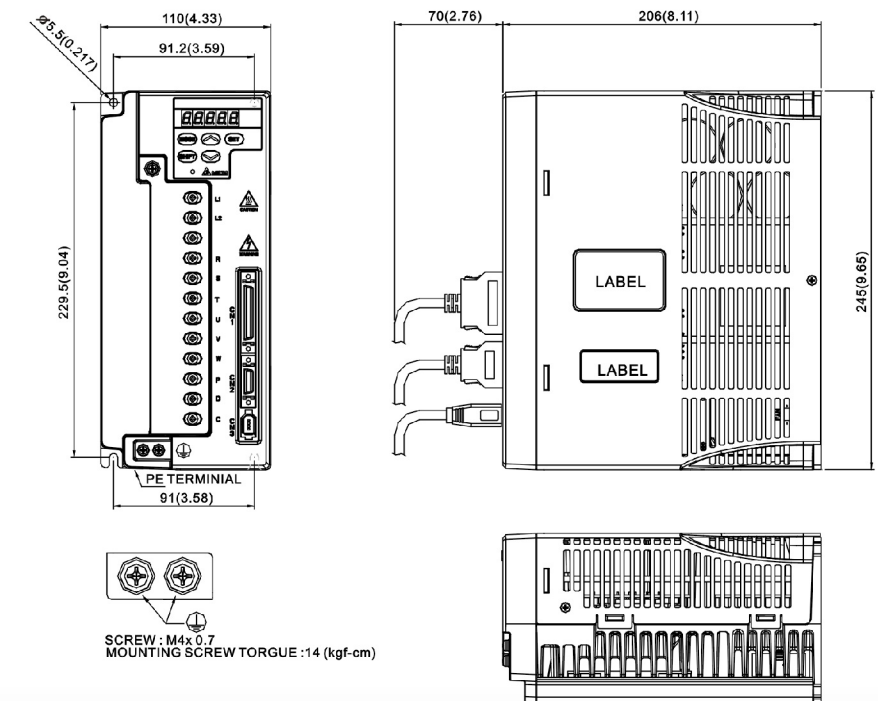


Weight

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) · ASD-A3023 -AB (3kW)

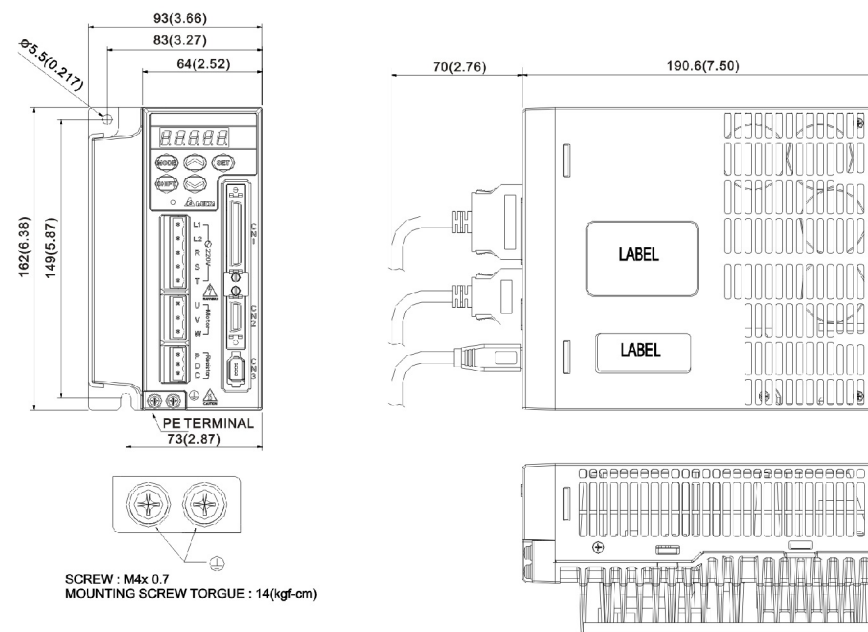


Weight

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.



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