



DELTA ELECTRONICS, INC.

# Newsletter

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New Servo Product Launch Announcement

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## ASDA-A2 400V Series Servo Motors and Servo Drives From 750W To 7.5kW



### Introduction

In response to the positive market feedback on the ASDA-A2 series, Delta will launch its brand-new ASDA-A2 400V series from 750W to 7.5kW to meet the requirements specified in the United States, the European, the India and China. In 2011, the power range of ASDA-A2 400V series will be extended later to 15kW, offering a wide range of products for industrial applications. Compared to ASDA-A2 220V series, ASDA-A2 400V series has a built-in transformer which saves cost and space for a compact installation. A 1,280,000PPR high-resolution encoder is equipped as standard to eliminate unstable commands at low speed, smooth the motor operation and enhance the accuracy of positioning for the precision tooling machine industry (e.g. CNC machine tool, carving machine, and injection molding machine). In addition, for the equipment requiring high torque output (e.g. winding machine, tube bending machine, packaging and feeding machine), ASDA-A2 400V series offers high torque, which perfectly meet the demanding customer applications.



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## Features

1. Broad power range available from 750W to 7.5kW.
2. Input power supply of all ASDA-A2 400V series servo drives is AC 400V (380V~480V), 3-phase.
3. An incremental 20-bit (1280000 p/rev) optical encoder is equipped.
4. The motor inertia is divided into three types: Low inertia (J), Medium inertia (K) and Medium-High inertia (L). There are 80mm, 130mm and 180mm three kinds of frame sizes are available. The motor speed is from 1500 r/min to 5000 r/min and the torque output is from 2.39 N-m to 119.36 N-m.
5. Built-in flexible position register control mode (PR mode) is offered. 35 kinds of homing modes and 64 internal memorized position settings are available.



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### Specifications

#### ASDA-A2 400V Series Servo Drives

ASDA-A2 Series		750W	1kW	1.5kW	2kW	3kW	4.5kW	5.5kW	7.5kW
		07	10	15	20	30	45	55	75
Power supply	Control Power	24VDC, ±10%							
	Main Circuit Power	Three-phase, 380 ~ 480VAC, ±10%							
	Continuous output current	3.07 Arms	3.52 Arms	5.02 Arms	6.66 Arms	11.9 Arms	20 Arms	22.37 Arms	30 Arms
Cooling System		Fan Cooling							
Encoder Resolution / Feedback Resolution		20-bit (1280000 p/rev)							
Control of Main Circuit		SVPWM (Space Vector Pulse Width Modulation) Control							
Tuning Modes		Auto / Manual							
Dynamic Brake		Built-in						External	
Position Control Mode	Max. Input Pulse Frequency	Max. 500Kpps (Line driver), Max. 200Kpps (Open collector) Max. 4Mpps (Line receiver)							
	Pulse Type	Pulse + Direction, A phase + B phase, CCW pulse + CW pulse							
	Command Source	External pulse train (PT mode) / Internal procedures (PR mode)							
	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<25600)							
	Torque Limit Operation	Set by parameters							
	Feed Forward Compensation	Set by parameters							
Speed Control Mode	Analog Input Command	Voltage Range	0 ~ ±10 V <sub>DC</sub>						
		Input Resistance	10KΩ						
		Time Constant	2.2 us						
	Speed Control Range *1	1:5000						1:3000	
	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							



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	Frequency Response Characteristic	Maximum 1kHz
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ASDA-A2 Series		750W	1kW	1.5kW	2kW	3kW	4.5kW	5.5kW	7.5kW
		07	10	15	20	30	45	55	75
Speed Control Mode	Speed Accuracy <sup>*2</sup> (at rated rotation speed)		0.01% or less at 0 to 100% load fluctuation						
			0.01% or less at ±10% power fluctuation						
			0.01% or less at 0°C to 50°C ambient temperature fluctuation						
Torque Control Mode	Analog Input Command	0 ~ ±10 V <sub>DC</sub>	0 ~ ±10 V <sub>DC</sub>						
		10KΩ	10KΩ						
		2.2 us	2.2 us						
	Command Source		External analog signal / Internal parameters						
	Smoothing Strategy		Low-pass filter						
	Speed Limit Operation		Set by parameters or via analog input						
Analog Monitor Output		Monitor signal can set by parameters (Output voltage range: ±8V)							
Digital Inputs/Outputs		Inputs	Servo On, Reset, Gain switching, Pulse clear, Zero speed CLAMP, Command input reverse control, Command triggered, Speed/Torque limit enabled, Position command selection, Motor stop, Speed Position Selection, Position / Speed mode switching, Speed / Torque mode switching, Torque / Position mode switching, Pt / Pr command switching, Emergency stop, Forward / Reverse inhibit limit, Reference "Home" sensor, Forward / Reverse operation torque limit, Move to "Home", Electronic cam, Forward / Reverse JOG input, Event trigger Pr command, Electronic gear ratio (Numerator) selection and Pulse inhibit input						
		Outputs	Encoder signal output (A, B, Z Line Driver and 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, Position command overflow, Forward / Reverse software limit, Internal position command completed, Capture operation completed output., Motion control completed output., Master position of E-CAM (electronic CAM)						

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Protective Functions	Overcurrent, Overvoltage, Undervoltage, Motor overheated, Regeneration error, Overload, Overspeed, Abnormal pulse control command, Excessive deviation, Encoder error, Adjustment error, Emergency stop activated, Reverse/ Forward limit switch error, Position excessive deviation of full-close control loop, Serial communication error, Input power phase loss, Serial communication time out, short circuit protection of U, V, W, and CN1, CN2, CN3 terminals
Communication Interface	RS-232 / RS-485 / CANopen / USB

ASDA-A2 Series		750W	1kW	1.5kW	2kW	3kW	4.5kW	5.5kW	7.5kW
		07	10	15	20	30	45	55	75
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 to 106kPa							
	Operating Temperature	0°C ~ 55°C (If operating temperature is above 45°C, forced cooling will be required)							
	Storage Temperature	-20°C to 65°C (-4°F to 149°F)							
	Humidity	0 to 90% (non-condensing)							
	Vibration	9.80665m/s <sup>2</sup> (1G) less than 20Hz, 5.88m/ s <sup>2</sup> (0.6G) 20 to 50Hz							
	IP Rating	IP20							
	Power System	TN System <sup>*3</sup>							
Approvals	IEC/EN 61800-5-1 								

Footnote:

- \*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 – 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 points by protective earth conductor.

### ECMA 400V Series Servo Motors

#### Low / Medium Inertia Series

ECMA Series	J108		K113	
	07	10	15	20
Rated output power (kW)	0.75	1.0	1.5	2.0
Rated torque (N-m) <sup>-1</sup>	2.39	4.77	7.16	9.55
Maximum torque (N-m)	7.16	14.32	21.48	28.65
Rated speed (r/min)	3000		2000	
Maximum speed (r/min)	5000		3000	
Rated current (A)	3.07	3.52	5.02	6.66
Maximum current (A)	9.5	10.56	15.06	19.98
Power rating (kW/s)	50.4	27.1	45.9	62.5
Rotor moment of inertia (Kg.m <sup>2</sup> ) (without brake)	1.13	8.41	11.18	14.59
Mechanical time constant (ms)	0.66	1.80	1.24	1.04
Torque constant-KT (N-m/A)	0.78	1.35	1.43	1.43
Voltage constant-KE (mV/(r/min))	28.24	53.2	55	55
Armature resistance (Ohm)	1.22	1.47	0.83	0.57
Armature inductance (mH)	10.68	17.79	11.67	8.29
Electrical time constant (ms)	8.75	12.04	14.04	14.39
Insulation class	-			
Insulation resistance	>100MΩ, DC 500V			
Insulation strength	1500V AC, 60 seconds			
Weight (kg) (without brake)	3.0	7.0	7.5	7.8
Weight (kg) (with brake)	3.8	8.4	8.9	9.2
Max. radial shaft load (N)	245	490	490	490
Max. thrust shaft load (N)	98	98	98	98
Power rating (kW/s) (with brake)	48.4	24.9	43.1	59.7
Rotor moment of inertia (Kg.m <sup>2</sup> ) (with brake)	1.18	9.14	11.90	15.88
Mechanical time constant (ms) (with brake)	0.65	1.96	1.32	1.13



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ECMA Series	J108	K113		
	07	10	15	20
Brake holding torque [Nt-m (min)]	2.5	10.0	10.0	10.0
Brake power consumption (at 20°C) [W]	8.5	19.0	19.0	19.0
Brake release time [ms (Max)]	10	10	10	10
Brake pull-in time [ms (Max)]	70	70	70	70
Vibration grade (µm)	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	All models are in the process of application to CE and UL certifications.			

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-\_\_08 : 250mm x 250mm x 6mm

ECMA-\_\_13 : 400mm x 400mm x 20mm

ECMA-\_\_18 : 550mm x 550mm x 30mm

Material type : Aluminum – F80, F130, F180

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### Medium-High Inertia Series

ECMA Series	L118			
	30	45	55	75
Rated output power (kW)	3.0	4.5	5.5	7.5
Rated torque (N-m) <sup>-1</sup>	19.10	28.65	35.0	47.75
Maximum torque (N-m)	57.29	71.62	87.53	119.38
Rated speed (r/min)	1500			
Maximum speed (r/min)	3000			
Rated current (A)	11.9	20.0	22.37	28.39
Maximum current (A)	35.7	50	56	70.9
Power rating (kW/s)	66.4	105.5	122.9	159.7
Rotor moment of inertia (Kg.m <sup>2</sup> ) (without brake)	54.95	77.75	99.78	142.7
Mechanical time constant (ms)	1.11	0.92	0.88	156.6
Torque constant-KT (N-m/A)	1.66	1.43	1.50	1.68
Voltage constant-KE (mV/(r/min))	60.54	55.63	57.99	65.37
Armature resistance (Ohm)	0.19	0.09	0.07	0.05
Armature inductance (mH)	4.8	2.7	2.55	1.7
Electrical time constant (ms)	24.7	30	31.7	34.14
Insulation class	-			
Insulation resistance	>100MΩ, DC 500V			
Insulation strength	1500V AC, 60 seconds			
Weight (kg) (without brake)	18.5	23.5	30.5	40.5
Weight (kg) (with brake)	22.5	29	36	46
Max. radial shaft load (N)	1470	1470	1764	1764
Max. thrust shaft load (N)	490	490	588	588
Power rating (kW/s) (with brake)	63.9	101.8	119.1	156.6
Rotor moment of inertia (Kg.m <sup>2</sup> ) (with brake)	57.06	80.65	102.70	145.5
Mechanical time constant (ms) (with brake)	1.16	0.95	0.91	0.69





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ECMA Series	L118			
	30	45	55	75
Brake holding torque [Nt-m (min)]	25.0	40.0	55.0	55.0
Brake power consumption (at 20°C) [W]	20.4	15.1	21	21
Brake release time [ms (Max)]	10	10	10	10
Brake pull-in time [ms (Max)]	70	70	70	70
Vibration grade (µm)	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	All models are in the process of application to CE and UL certifications.			

Footnote:

\*1 Rate torque values are continuous permissible values at 0~40°C ambient temperature when attaching with the sizes of heatsinks listed below:

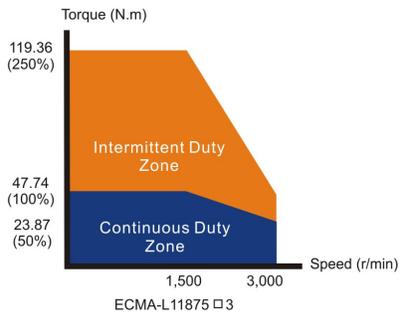
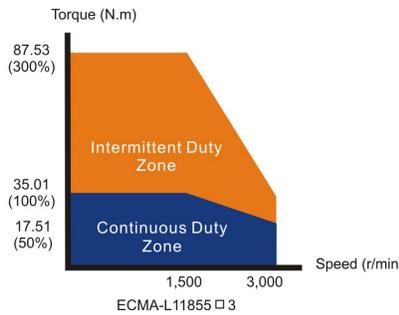
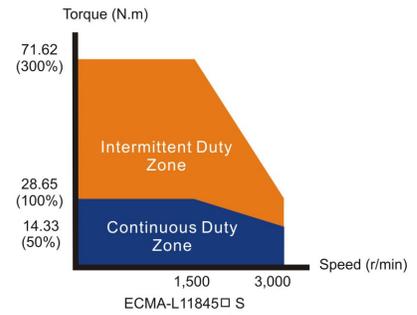
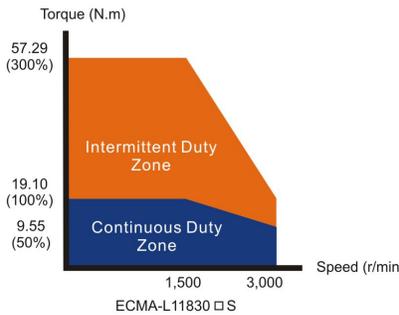
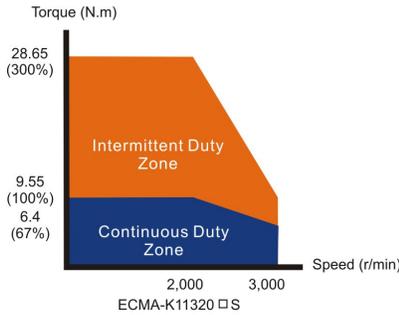
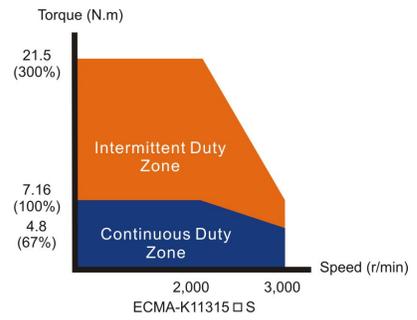
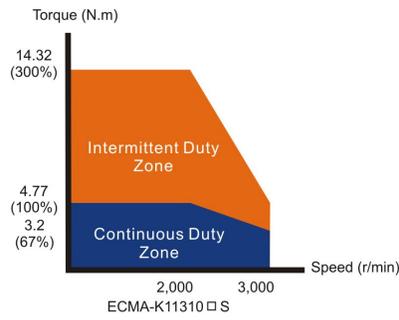
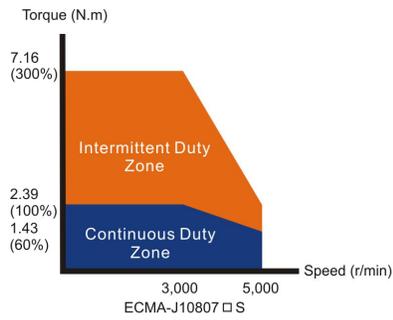
ECMA-\_\_08 : 250mm x 250mm x 6mm

ECMA-\_\_13 : 400mm x 400mm x 20mm

ECMA-\_\_18 : 550mm x 550mm x 30mm

Material type : Aluminum – F80, F130, F180

### Speed-Torque Curves (T-N Curves)



### Servo Drive and Servo Motor Combinations

The table below shows the possible combinations of Delta ASDA-A2 400V series (750W~7.5kW) servo drives and connectable servo motors.

	Servo Drive	Servo Motor
750W	ASD-A2-0743-□	<b>ECMA-J10807□S (S=19mm)</b>
1000W	ASD-A2-1043-□	<b>ECMA-K11310□S (S=22mm)</b>
1500W	ASD-A2-1543-□	<b>ECMA-K11315□S (S=22mm)</b>
2000W	ASD-A2-2043-□	<b>ECMA-K11320□S (S=22mm)</b>
3000W	ASD-A2-3043-□	<b>ECMA-L11830□S (S=35mm)</b>
*4500W	ASD-A2-4543-□	<b>ECMA-L11845□S (S=35mm)</b>
*5500W	ASD-A2-5543-□	<b>ECMA-L11855□3 (3=42mm)</b>
*7500W	ASD-A2-7543-□	<b>ECMA-L11875□3 (3=42mm)</b>



#### NOTE

- 1) The boxes (□) at the ends of the servo drive model names are for optional configurations (Full-close control, CANopen and extension digital input port). For the actual model name, please refer to the ordering information of the actual purchased product.
  - 2) The boxes (□) in the servo motor model names are for optional configurations (keyway, brake and oil seal).
- \* will be launched in 2011

The servo drives shown in the above table are designed for use in combination with the specific servo motors. Check the specifications of the drives and motors you want to use.

Also, please ensure that both the servo drive and motor are correctly matched for size (power rating). If the power of motor and drive is not within the specifications, the drive and motor may overheat and servo alarm would be activated. For the detail specifications of servo drives and motors, please refer to "Specifications".

The drives shown in the above table are designed according to the three multiple of rated current of motors shown in the above table. If the drives which are designed according to the six multiple of rated current of motors are needed, please contact our distributors or your local Delta sales representative.



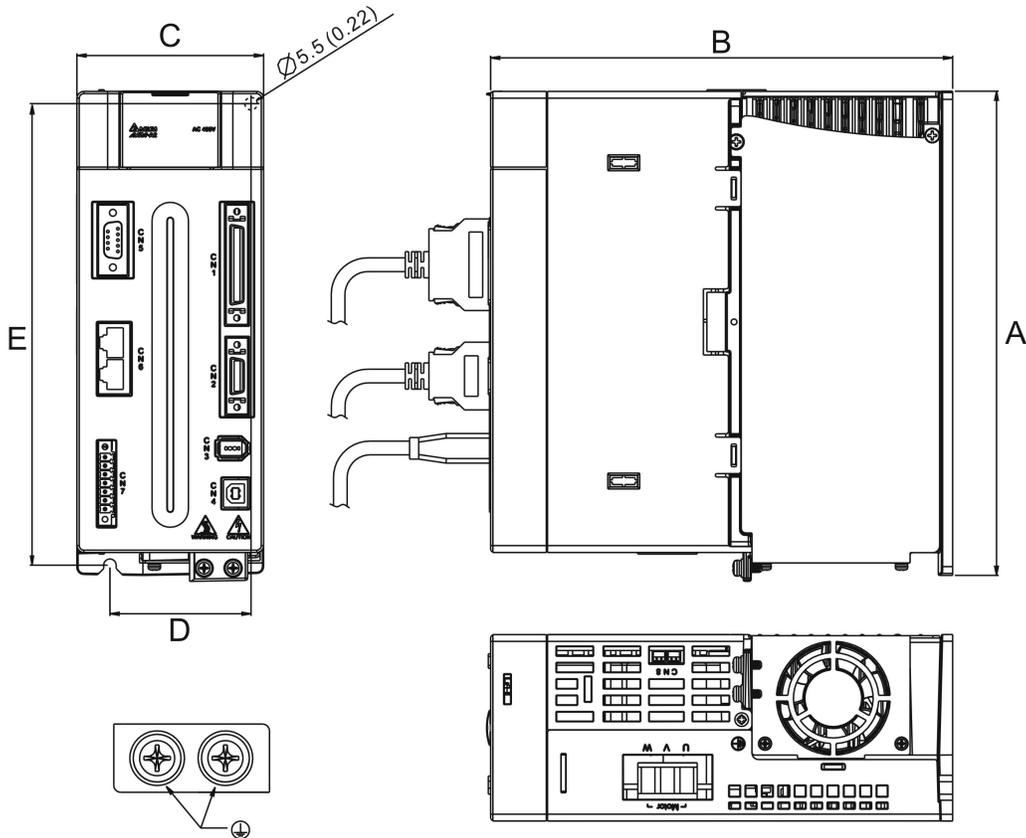
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## Servo Drive Dimensions (ASDA-A2 Series)

ASD-A2-0743, ASD-A2-1043, ASD-A2-1543 (750W ~ 1.5kW)

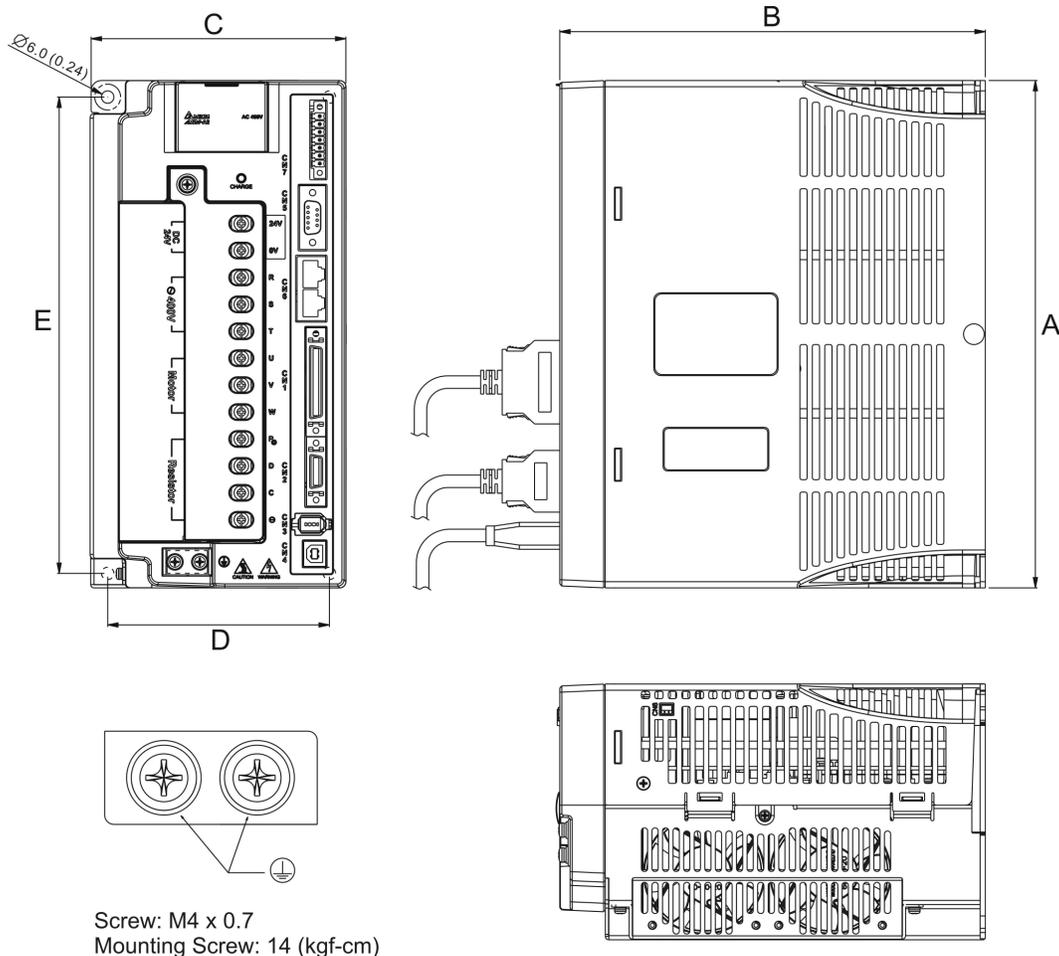


Screw: M4 x 0.7  
Mounting Screw: 14 (kgf-cm)

Power	A	B	C	D	E	Weight
750W ~ 1.5kW	216 (8.50)	203 (7.99)	82 (3.23)	62 (2.44)	203 (7.99)	2.89 (6.36)

- NOTE**
- 1) Dimensions are in millimeters and (inches).
  - 2) Weights are in kilograms and (pounds).
  - 3) For the actual appearance, please refer to the actual purchased product.
  - 4) In this instruction sheet, actual measured values are in metric units. The units in (imperial units) are for reference only. Please use metric for precise measurements.

### ASD-A2-2043, ASD-A2-3043, ASD-A2-4543, ASD-A2-5543 (2kW ~ 5.5kW)



Power	A	B	C	D	E	Weight
2kW ~ 5.5kW	245 (9.65)	205.4 (8.11)	123 (4.88)	107 (4.21)	230 (9.06)	5.5 (12.1)

- NOTE**
- 1) Dimensions are in millimeters and (inches).
  - 2) Weights are in kilograms and (pounds).
  - 3) For the actual appearance, please refer to the actual purchased product.
  - 4) In this instruction sheet, actual measured values are in metric units. The units in (imperial units) are for reference only. Please use metric for precise measurements.

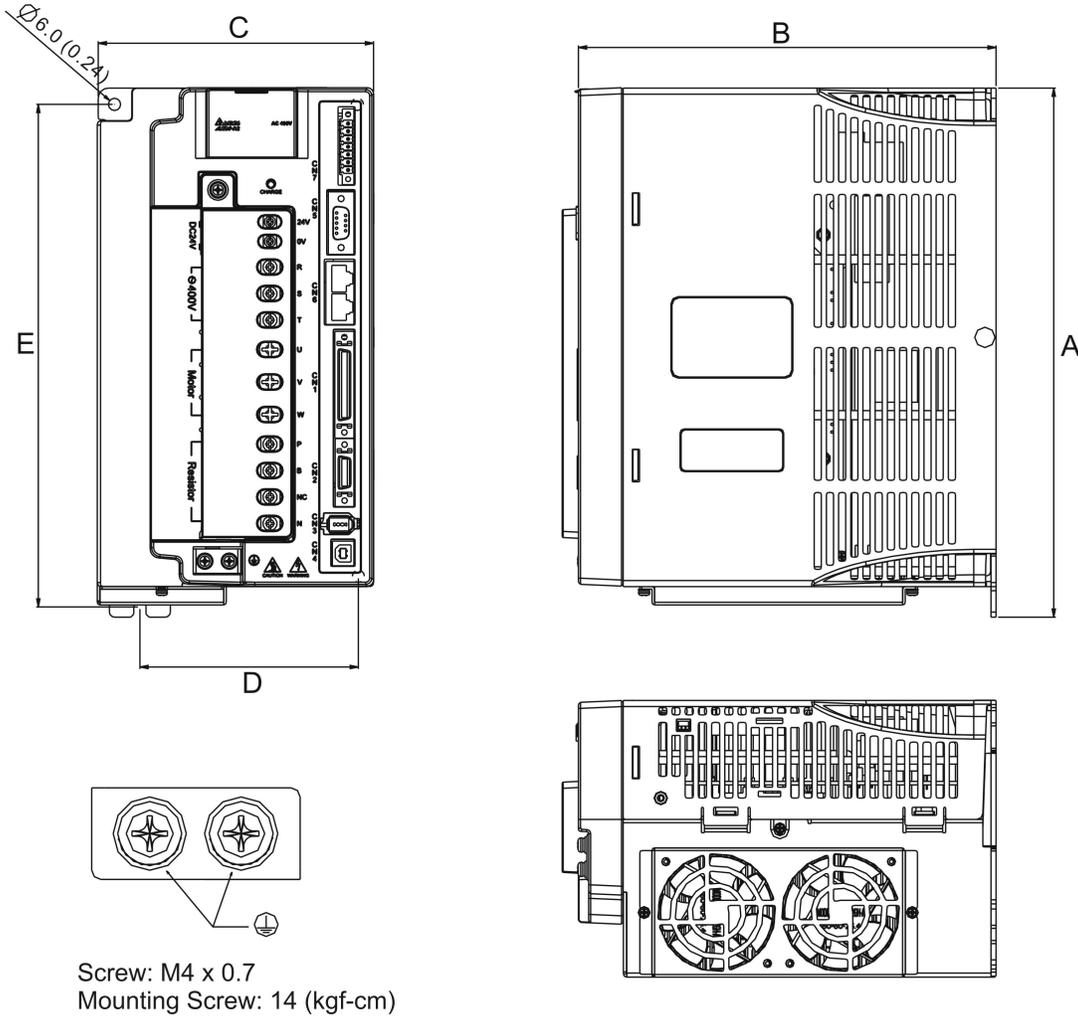


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### ASD-A2-7543 (7.5kW)



Power	A	B	C	D	E	Weight
7.5kW	260 (10.24)	205.4 (8.11)	136 (8.08)	107 (4.21)	247 (9.72)	6 (13.2)

- NOTE**
- 1) Dimensions are in millimeters and (inches).
  - 2) Weights are in kilograms and (pounds).
  - 3) For the actual appearance, please refer to the actual purchased product.
  - 4) In this instruction sheet, actual measured values are in metric units. The units in (imperial units) are for reference only. Please use metric for precise measurements.



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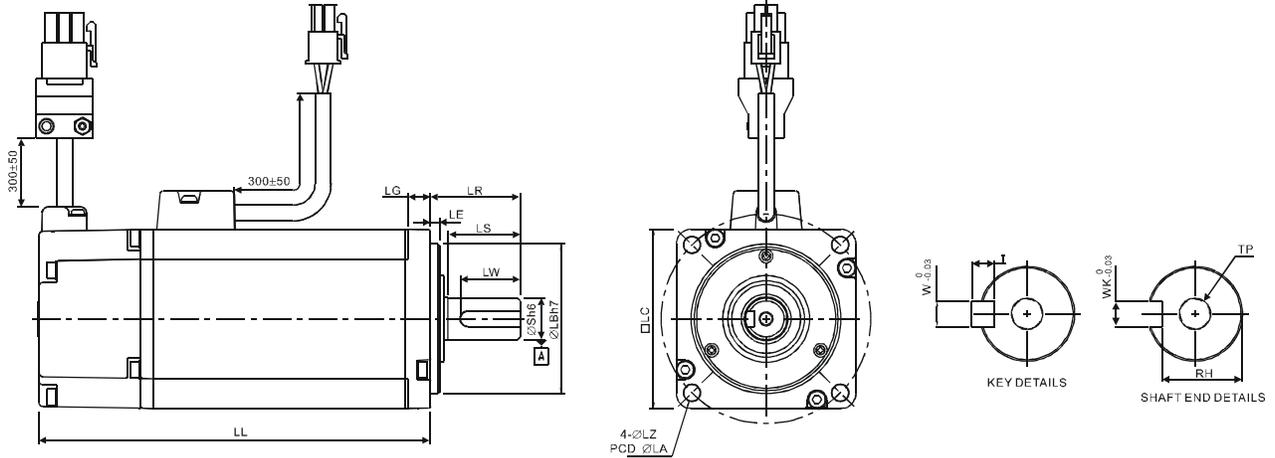
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## Servo Motor Dimensions (ECMA Series)

Frame Size: 80mm and below

Units: mm



Model	J10807□S
LC	80
LZ	6.6
LA	90
S	19 <sup>(+0)</sup> <sub>(-0.013)</sub>
LB	70 <sup>(+0)</sup> <sub>(-0.030)</sub>
LL (Without Brake)	138.3
LL (With Brake)	178
LS (Without Oil Seal)	32
LS (With Oil Seal)	29.5
LR	35
LE	3
LG	8
LW	25
RH	15.5
WK	6
W	6
T	6
TP	M6, Depth 20
Weight (kg) (without brake)	3.0
Weight (kg) (with brake)	3.8



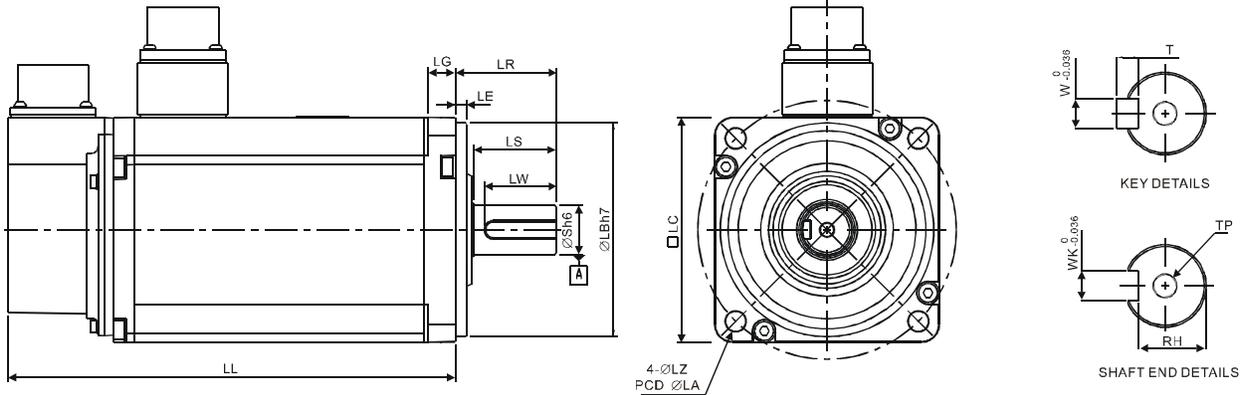
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Frame Size: 130mm

Units: mm



Model	K11310□S	K11315□S	K11320□S
LC	130	130	130
LZ	9	9	9
LA	145	145	145
S	22 <sup>(+0/-0.013)</sup>	22 <sup>(+0/-0.013)</sup>	22 <sup>(+0/-0.013)</sup>
LB	110 <sup>(+0/-0.035)</sup>	110 <sup>(+0/-0.035)</sup>	110 <sup>(+0/-0.035)</sup>
LL (Without Brake)	147.5	167.5	187.5
LL (With Brake)	183.5	202	216
LS	47	47	47
LR	55	55	55
LE	6	6	6
LG	11.5	11.5	11.5
LW	36	36	36
RH	18	18	18
WK	8	8	8
W	8	8	8
T	7	7	7
TP	M6, Depth 20	M6, Depth 20	M6, Depth 20
Weight (kg) (without brake)	7.0	7.5	7.8
Weight (kg) (with brake)	8.4	8.9	9.2



**NOTE**

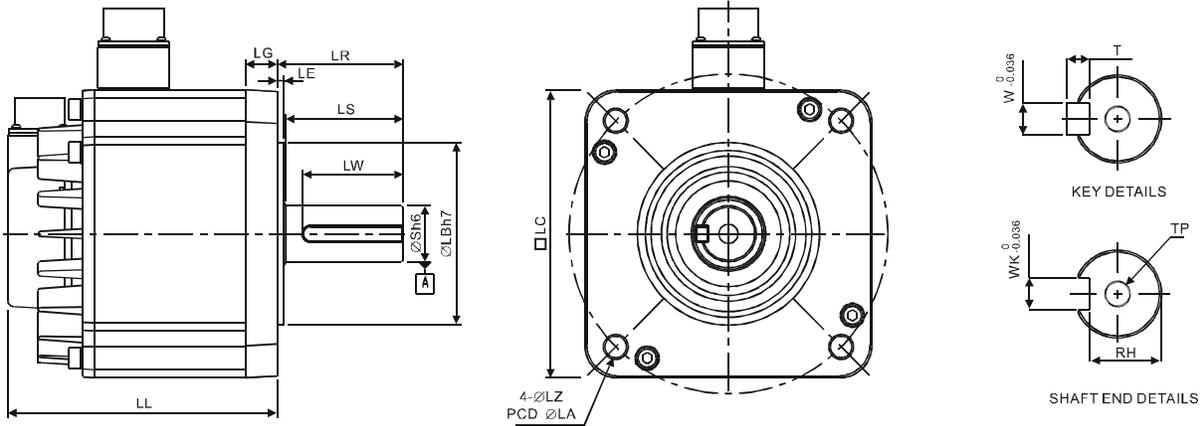
- 1) Dimensions are in millimeters (inches); Weights are in kilograms (kg).
- 2) Dimensions and weights of the servo drive may be revised without prior notice.
- 3) The boxes (□) in the servo motor model names are for optional configurations (keyway, brake and oil seal).



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Frame Size: 180mm and above

Units: mm



Model	L11830□S	L11845□S	L11855□3	L11875□3
LC	180	180	180	180
LZ	13.5	13.5	13.5	13.5
LA	200	200	200	200
S	35 <sup>(+0)</sup> <sub>(-0.016)</sub>	35 <sup>(+0)</sup> <sub>(-0.016)</sub>	42 <sup>(+0)</sup> <sub>(-0.016)</sub>	42 <sup>(+0)</sup> <sub>(-0.016)</sub>
LB	114.3 <sup>(+0)</sup> <sub>(-0.035)</sub>	114.3 <sup>(+0)</sup> <sub>(-0.035)</sub>	114.3 <sup>(+0)</sup> <sub>(-0.035)</sub>	114.3 <sup>(+0)</sup> <sub>(-0.035)</sub>
LL (Without Brake)	202.1	235.3	279.7	342.0
LL (With Brake)	235.3	279.3	311.7	376.1
LS	73	73	108.5	108.5
LR	79	79	113	113
LE	4	4	4	4
LG	20	20	20	20
LW	63	63	90	90
RH	30	30	37	37
WK	10	10	12	12
W	10	10	12	12
T	8	8	8	8
TP	M12, Depth 25	M12, Depth 25	M16, Depth 32	M16, Depth 32
Weight (kg) (without brake)	18.5	23.5	30.5	40.5
Weight (kg) (with brake)	22.5	29	36	46



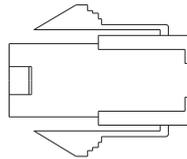
### NOTE

- 1) Dimensions are in millimeters (inches); Weights are in kilograms (kg).
- 2) Dimensions and weights of the servo drive may be revised without prior notice.
- 3) The boxes (□) in the servo motor model names are for optional configurations (keyway, brake and oil seal).

### Connectors and Cables

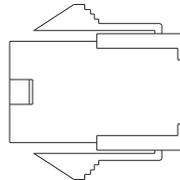
#### ■ Power Connectors

Delta P/N: ASDBCAPW0000 (for A2-0743 servo drive + ECMA-J10807ES servo motor without brake)



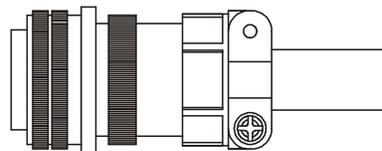
Title	Part No.	Manufacturer
Housing	C4201H00-2*2PA	JOWLE
Terminal	C4201TOP-2	JOWLE

Delta P/N: ASDBCAPW0100 (for A2-0743 servo drive + ECMA- J10807FS servo motor with brake)



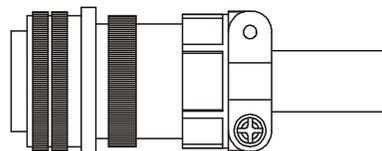
Title	Part No.	Manufacturer
Housing	C4201H00-2*3PA	JOWLE
Terminal	C4201TOP-2	JOWLE

Delta P/N: ASD-CAPW1000 (for A2-1043 / A2-1543 /A2-2043 servo drives)



3106A-20-18S

Delta P/N: ASD-CAPW2000 (for A2-3043 / A2-4543 /A2-5543 / A2-7543 servo drives)

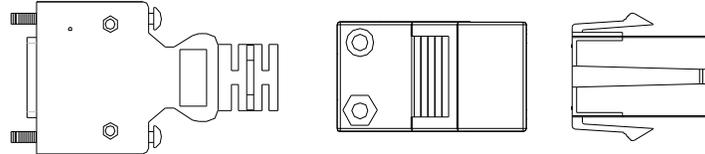


3106A-24-11S

## New Servo Product Launch Announcement

### Encoder Connectors

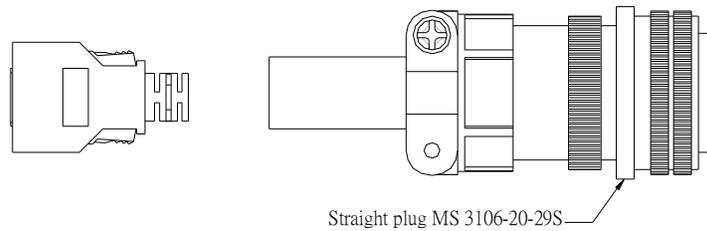
Delta P/N: ASD-ABEN0000



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

Delta P/N: ASD-CAEN1000

(for A2-1043 / A2-1543 / A2-2043 / A2-3043 / A2-4543 / A2-5543 / A2-7543 servo drives)



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



DELTA ELECTRONICS, INC.

# Newsletter

## New Servo Product Launch Announcement

### ■ Servo Drive, Servo Motor and Accessories Combinations

#### 750W Servo Drive and 750W Low Inertia Servo Motor

Servo Drive	ASD-A2-0743-□			
Low Inertia Servo Motor	ECMA-J10807□S			
Cable	Without Brake		With Brake	
	3M	5M	3M	5M
	Power Cable ASD-ABPW0003	Power Cable ASD-ABPW0005	Power Cable ASD-ABPW0103	Power Cable ASD-ABPW0105
	Encoder Cable ASD-CAEN1003	Encoder Cable ASD-CAEN1005	Encoder Cable ASD-CAEN1003	Encoder Cable ASD-CAEN1005
Connector	Power Connector ASDBCAPW0000		Power Connector ASDBCAPW0100	
	Encoder Connector ASD-ABEN0000			

#### 1kW Servo Drive and 1kW Medium Inertia Servo Motor

Servo Drive	ASD-A2-1043-□			
Medium Inertia Servo Motor	ECMA-K11310□S			
Cable	Without Brake		With Brake	
	3M	5M	3M	5M
	Power Cable ASD-CAPW1003	Power Cable ASD-CAPW1005	Power Cable ASD-CAPW1103	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			
	Encoder Connector ASD-CAEN1000			



DELTA ELECTRONICS, INC.

# Newsletter

## New Servo Product Launch Announcement

### 1.5kW Servo Drive and 1.5kW Medium Inertia Servo Motor

Servo Drive	ASD-A2-1543-□			
Medium Inertia Servo Motor	ECMA-K11315□S			
Cable	Without Brake		With Brake	
	3M	5M	3M	5M
	Power Cable ASD-CAPW1003	Power Cable ASD-CAPW1005	Power Cable ASD-CAPW1103	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			
	Encoder Connector ASD-CAEN1000			

### 2kW Servo Drive and 2kW Medium Inertia Servo Motor

Servo Drive	ASD-A2-2043-□			
Medium Inertia Servo Motor	ECMA-K11320□S			
Cable	Without Brake		With Brake	
	3M	5M	3M	5M
	Power Cable ASD-CAPW1203	Power Cable ASD-CAPW1205	Power Cable ASD-CAPW1303	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			
	Encoder Connector ASD-CAEN1000			



DELTA ELECTRONICS, INC.

# Newsletter

## New Servo Product Launch Announcement

### 3kW Servo Drive and 3kW Medium-High Inertia Servo Motor

Servo Drive	ASD-A2-3043-□			
Medium-High Inertia Servo Motor	ECMA-K11830□S			
Cable	Without Brake		With Brake	
	3M	5M	3M	5M
	Power Cable ASD-CAPW2203	Power Cable ASD-CAPW2205	Power Cable ASD-CAPW2303	Power Cable ASD-CAPW2305
	Encoder Cable ASD-CAEN1003	Encoder Cable ASD-CAEN1005	Encoder Cable ASD-CAEN1003	Encoder Cable ASD-CAEN1005
Connector	Power Connector ASD-CAPW2000			
	Encoder Connector ASD-CAEN1000			

### 4.5kW Servo Drive and 4.5kW Medium-High Inertia Servo Motor

Servo Drive	ASD-A2-4543-□			
Medium-High Inertia Servo Motor	ECMA-L11845□S			
Cable	Without Brake		With Brake	
	3M	5M	3M	5M
	Power Cable ASD-CAPW2203	Power Cable ASD-CAPW2205	Power Cable ASD-CAPW2303	Power Cable ASD-CAPW2305
	Encoder Cable ASD-CAEN1003	Encoder Cable ASD-CAEN1005	Encoder Cable ASD-CAEN1003	Encoder Cable ASD-CAEN1005
Connector	Power Connector ASD-CAPW2000			
	Encoder Connector ASD-CAEN1000			

### 5.5kW Servo Drive and 5.5kW Medium-High Inertia Servo Motor

Servo Drive	ASD-A2-5543-□			
Medium-High Inertia Servo Motor	ECMA-L11855□3			
Cable	Without Brake		With Brake	
	3M	5M	3M	5M
	Power Cable ASD-CAPW2203	Power Cable ASD-CAPW2205	Power Cable ASD-CAPW2303	Power Cable ASD-CAPW2305
	Encoder Cable ASD-CAEN1003	Encoder Cable ASD-CAEN1005	Encoder Cable ASD-CAEN1003	Encoder Cable ASD-CAEN1005
Connector	Power Connector ASD-CAPW2000			
	Encoder Connector ASD-CAEN1000			

### 7.5kW Servo Drive and 7.5kW Medium-High Inertia Servo Motor

Servo Drive	ASD-A2-7543-□			
Medium-High Inertia Servo Motor	ECMA-L11875□3			
Cable	Without Brake		With Brake	
	3M	5M	3M	5M
	Power Cable ASD-CAPW3203	Power Cable ASD-CAPW3205	Power Cable ASD-CAPW3303	Power Cable ASD-CAPW3305
	Encoder Cable ASD-CAEN1003	Encoder Cable ASD-CAEN1005	Encoder Cable ASD-CAEN1003	Encoder Cable ASD-CAEN1005
Connector	Power Connector ASD-CAPW2000			
	Encoder Connector ASD-CAEN1000			



**NOTE**

- 1) The boxes (□) at the ends of the servo drive model names are for optional configurations (Full-close control, CANopen and extension digital input port). For the actual model name, please refer to the ordering information of the actual purchased product.
- 2) The boxes (□) in the servo motor model names are for optional configurations (keyway, brake and oil seal).



DELTA ELECTRONICS, INC.

# Newsletter

## New Servo Product Launch Announcement

### Ordering Information

Model Name	Explanation	Open for Orders
<b>ASDA-A2 400V (750W ~ 7.5KW) Servo Drives</b>		
ASD-A2-0743-U	A2 400V 750W Servo Drive (Pulse Input Interface)	Launched
ASD-A2-0743-M	A2 400V 750W Servo Drive (CANOpen Interface)	Launched
ASD-A2-1043-U	A2 400V 1.0kW Servo Drive (Pulse Input Interface)	Launched
ASD-A2-1043-M	A2 400V 1.0kW Servo Drive (CANOpen Interface)	Launched
ASD-A2-1543-U	A2 400V 1.5kW Servo Drive (Pulse Input Interface)	Launched
ASD-A2-1543-M	A2 400V 1.5kW Servo Drive (CANOpen Interface)	Launched
ASD-A2-2043-U	A2 400V 2.0kW Servo Drive (Pulse Input Interface)	Launched
ASD-A2-2043-M	A2 400V 2.0kW Servo Drive (CANOpen Interface)	Launched
ASD-A2-3043-U	A2 400V 3.0kW Servo Drive (Pulse Input Interface)	Launched
ASD-A2-3043-M	A2 400V 3.0kW Servo Drive (CANOpen Interface)	Launched
ASD-A2-4543-U	A2 400V 4.5KW Servo Drive (Pulse Input Interface)	Will release soon
ASD-A2-4543-M	A2 400V 4.5KW Servo Drive (CANOpen Interface)	Will release soon
ASD-A2-5543-U	A2 400V 5.5KW Servo Drive (Pulse Input Interface)	Will release soon
ASD-A2-5543-M	A2 400V 5.5KW Servo Drive (CANOpen Interface)	Will release soon
ASD-A2-7543-U	A2 400V 7.5kW Servo Drive (Pulse Input Interface)	Will release soon
ASD-A2-7543-M	A2 400V 7.5kW Servo Drive (CANOpen Interface)	Will release soon





DELTA ELECTRONICS, INC.

# Newsletter

## New Servo Product Launch Announcement

<b>ECMA A2 400V (750W ~ 7.5KW) Servo Motors</b>		
ECMA- J10807ES	400V, 750W, frame size 80mm, without oil seal, without brake, keyway	Launched
ECMA- K11310ES	400V, 1.0kW, frame size 130mm, without oil seal, without brake, keyway	Launched
ECMA- K11315ES	400V, 1.5kW, frame size 130mm, without oil seal, without brake, keyway	Launched
ECMA- K11320ES	400V, 2.0kW, frame size 130mm, without oil seal, without brake, keyway	Launched
ECMA- L21830PS	400V, 3.0kW, frame size 180mm, without oil seal, without brake, keyway with screw hole	Launched
ECMA- L11845PS	400V, 4.5kW, frame size 180mm, without oil seal, without brake, keyway with screw hole	Will release soon
ECMA- L11855P3	400V, 5.5kW, frame size 180mm, without oil seal, without brake, keyway with screw hole	Will release soon
ECMA- L11875P3	400V, 7.5kW, frame size 180mm, without oil seal, without brake, keyway with screw hole	Will release soon
<b>Accessories (Connectors and Cables)</b>		
ASD-CAPW0000	Power Connector (for 400V 0.75kW without Brake models)	Launched
ASD-CAPW0100	Power Connector (for 400V 0.75 kW With Brake models)	Launched
ASD-CAPW1000	Power Connector (for 400V 1.0 / 1.5 /2.0 kW models)	Launched
ASD-CAPW2000	Power Connector (for 400V 3.0 / 4.5 / 5.5 / 7.5 kW models)	Launched
ASD-ABEN1000	Encoder Connector (for 400V 0.75 kW models)	Launched
ASD-CAEN1000	Encoder Connector (for 400V 1.0 / 1.5 / 2.0 / 3.0 /4.5 / 5.5/ 7.5 kW models)	Launched
ASD-CAPW0003	Power Cable (3m, without brake cable)	Launched



DELTA ELECTRONICS, INC.

# Newsletter

## New Servo Product Launch Announcement

Accessories (Connectors and Cables)		
ASD-CAPW0005	Power Cable (5m, without brake cable)	Launched
ASD-CAPW0103	Power Cable (3m, with brake cable)	Launched
ASD-CAPW0105	Power Cable (5m, with brake cable)	Launched
ASD-CAPW1003	Power Cable (3m, without brake cable)	Launched
ASD-CAPW1005	Power Cable (5m, without brake cable)	Launched
ASD-CAPW1103	Power Cable (3m, with brake cable)	Launched
ASD-CAPW1105	Power Cable (5m, with brake cable)	Launched
ASD-CAPW1203	Power Cable (3m, without brake cable)	Launched
ASD-CAPW1205	Power Cable (5m, without brake cable)	Launched
ASD-CAPW1303	Power Cable (3m, with brake cable)	Launched
ASD-CAPW1305	Power Cable (5m, with brake cable)	Launched
ASD-CAPW2203	Power Cable (3m, without brake cable)	Launched
ASD-CAPW2205	Power Cable (5m, without brake cable)	Launched
ASD-CAPW2303	Power Cable (3m, with brake cable)	Launched
ASD-CAPW2305	Power Cable (5m, with brake cable)	Launched
ASD-CAPW3203	Power Cable (3m, without brake cable)	Launched
ASD-CAPW3205	Power Cable (5m, without brake cable)	Launched
ASD-CAPW3303	Power Cable (3m, with brake cable)	Launched
ASD-CAPW3305	Power Cable (5m, with brake cable)	Launched
ASD-CAEN1003	Encoder Cable (3m) (for 4.5kW / 5.5kW / 7.5 kW models)	Launched
ASD-CAEN1005	Encoder Cable (5m) (for 4.5kW / 5.5kW / 7.5 kW models)	Launched



DELTA ELECTRONICS, INC.

# Newsletter

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## New Servo Product Launch Announcement

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Accessories (Connectors and Cables)		
ASD-CN5C0050	I/O signal connector (50 Pin)	Launched
ASD-CARS0003	Communication cable between drive and computer (for PC software)	Launched
ASD-BM-50A	Terminal block module	Launched

### Remark

- The electronic files of product brochures and user manual for ASDA-A2 220V&400V series will be updated and released on Delta website in Q1, 2011.
- ASDA-A2 400V series 4.5 kW - 7.5kW servo motors and drives will be opened for orders in 2011.
- Any further details related to this release will be notified later.