

Digitized Automation for a Changing World

Delta AC Servo Drive & Motor
ASDA-E3C Series

www.deltaww.com

Simple & Reliable

The ASDA-E3C Series is an entry-level servo system based on the standard ASDA-B3 Series, featuring a more compact design, simplified wiring and a consistent user interface for easy adoption.

With faster responses than the ASDA-B2 Series and paired with ECM-E3 motors, the ASDA-E3C Series supports a wide range of basic industrial automation equipment. It is suited for fundamental applications such as transmission, conveying, and positioning. As a key component in machine motion, it delivers stable performance to support productivity and operational efficiency, helping customers add value to their automation systems.





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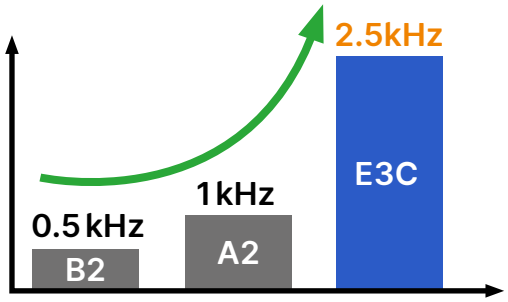
Features

Servo System ASDA-E3C Series

Optimized Performance

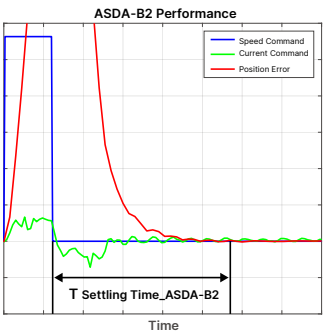
High Response Bandwidth

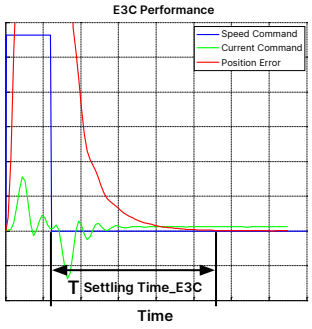
- Higher responsiveness: From 0.5 kHz of the ASDA-B2 Series to 2.5 kHz of the ASDA-E3C Series.



Shortened Settling Time

- Enhanced Productivity: Settling time reduced by 13%





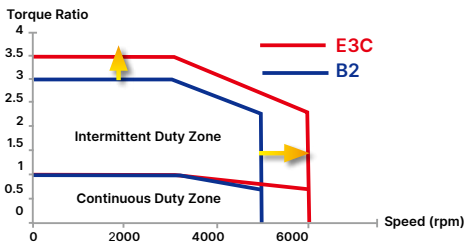
Higher Load Tolerance

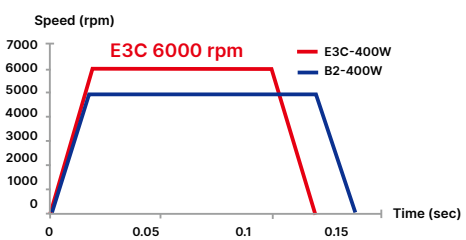
- Enhances positioning precision and optimizes the system.
- Higher response bandwidth with the same load conditions.

	B2	E3C	B2	E3C	B2	E3C
Actual Load Inertia Ratio	30 times		50 times		70 times	
Speed Loop Bandwidth in Position Mode	Approx. 150 Hz	Approx. 200 Hz	Approx. 30 Hz	Approx. 120 Hz	Max. performance	Approx. 16 Hz

Increased Speed and Torque

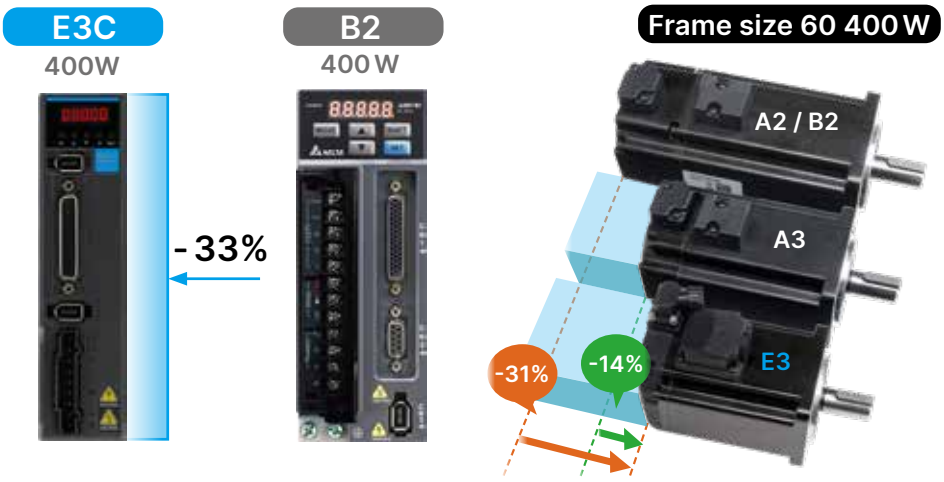
- Max speed increased to 6,000 rpm
- 3.5x torque overload capacity for faster acceleration and deceleration
- Significantly increases productivity and efficiency





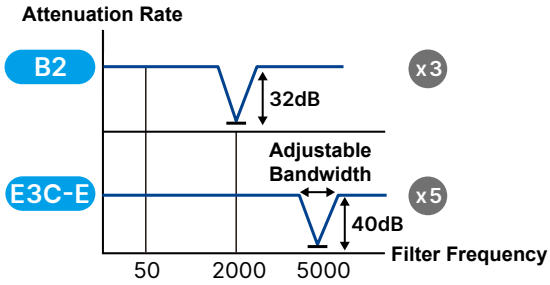
Compact Size

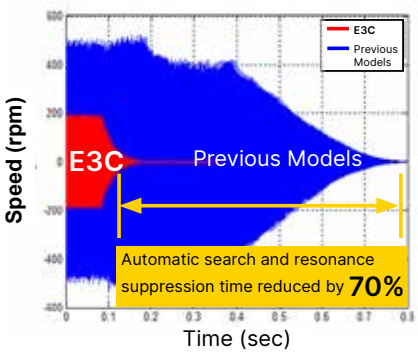
- The size of the E3C servo drive is reduced by up to 33% compared to B2.
- The size of the E3 servo motor is reduced by up to 25%.



Vibration Suppresion

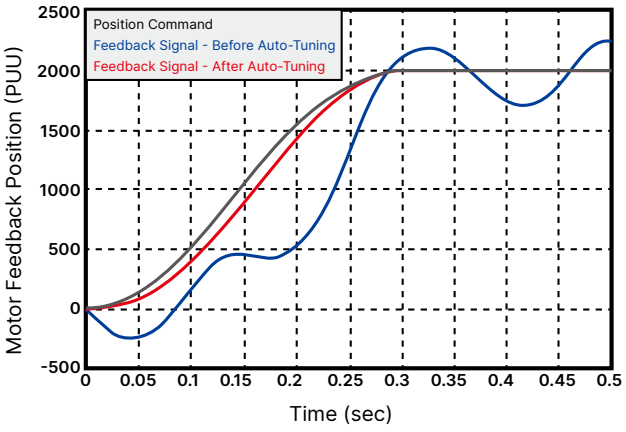
- 5 sets of high frequency vibration suppression.
- Filter bandwidth increased to 5,000 Hz.
- Automatically searches for the vibration frequency point and completes the vibration suppression.





Outstanding Self-Adjusting Capability

- Built-in algorithms for easy software adjusting, enhancing assembly and testing efficiency.
- Designed for applications with large inertia variations.



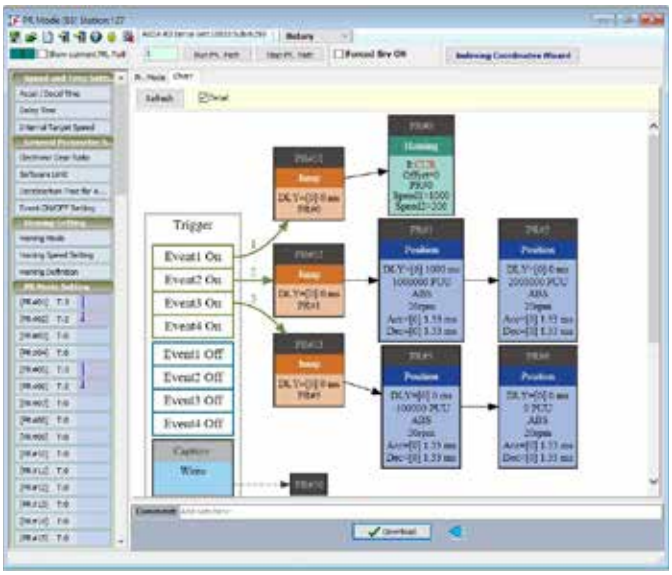
Features

Servo System ASDA-E3C Series

Optimized Performance

Built-In Motion Control

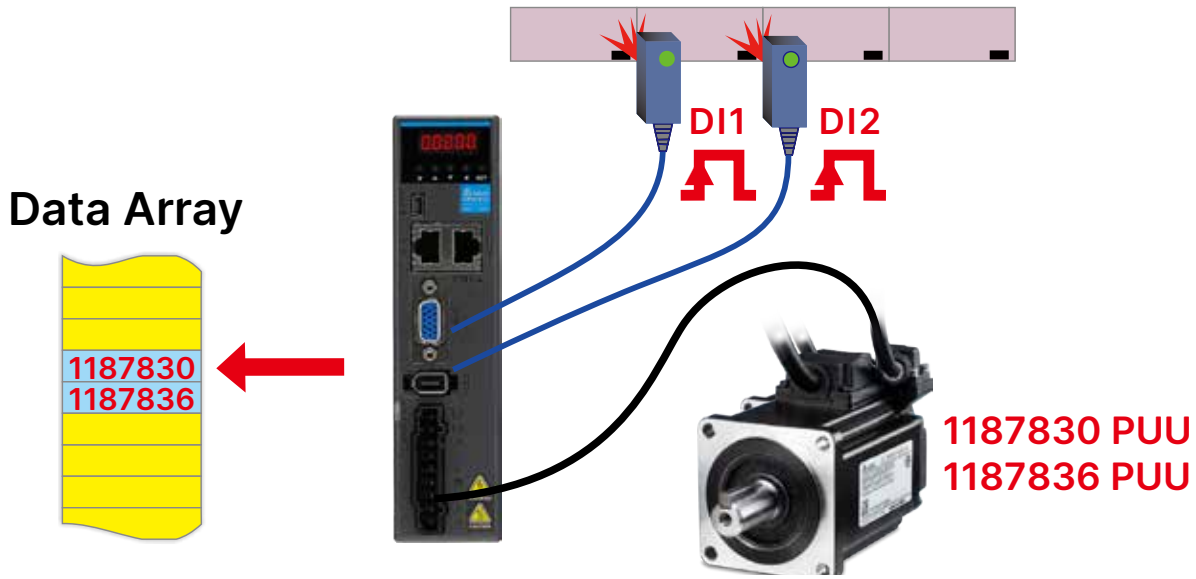
- Supports 99 (E3C-E) / 64 (E3C-L) PR paths for flexible motion command planning.
- Condition judgment function.
- Intuitive operation interface with graphics.
- Supports homing modes, position commands and speed commands.
- Overlap command, interrupt command, jump command, and parameter settings.



High-Speed Capture Function

- Supports dual-channel Touch Probe in EtherCAT mode.

Note: Touch Probe function: DI1, DI2



Graphical Parameter Setting

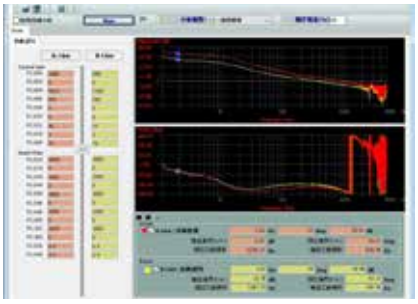
- Visualized interface for intuitive parameter settings and gain tuning.





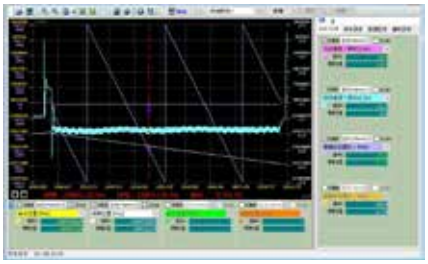
Advanced Gain Adjustment Function

- Advanced fine-tuning modes for diverse applications and operating characteristics.



System Analysis Interface

- **Speed Open-Loop Mode:** Optimizes system configurations for optimal design.
- **System Module Mode:** Evaluates the mechanical stiffness of the mechanism in the mode.



Oscilloscope Function

Feature	ASDA-E3C-L	ASDA-E3C-E
Standard Mode	Max. 4 Channels (16-bit / 2 kHz)	Max. 8 Channels (16-bit / 10 kHz)
High Resolution	2 Channels (32-bit / 2 kHz)	4 Channels (32-bit / 10 kHz)
High Sampling	2 Channels (16-bit / 4 kHz)	4 Channels (16-bit / 20 kHz)

Features

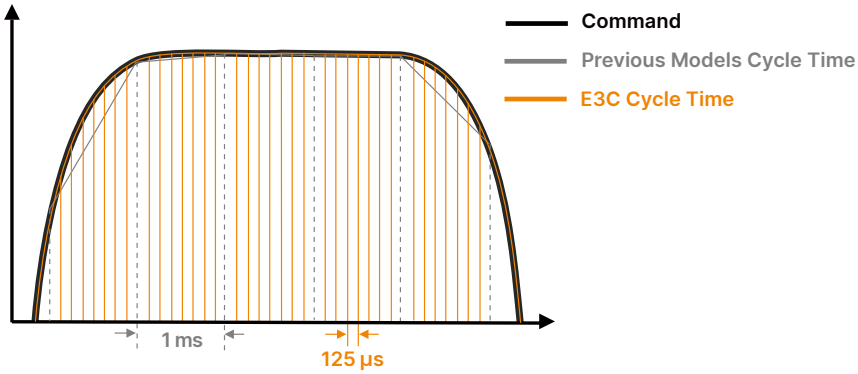
Servo System ASDA-E3C Series

EtherCAT Communication Functions

- Complies with the IEC 61158 and IEC 61800-7 fieldbus standards.
- Supports all CoE operating modes and command modes under the CiA 402 profile.

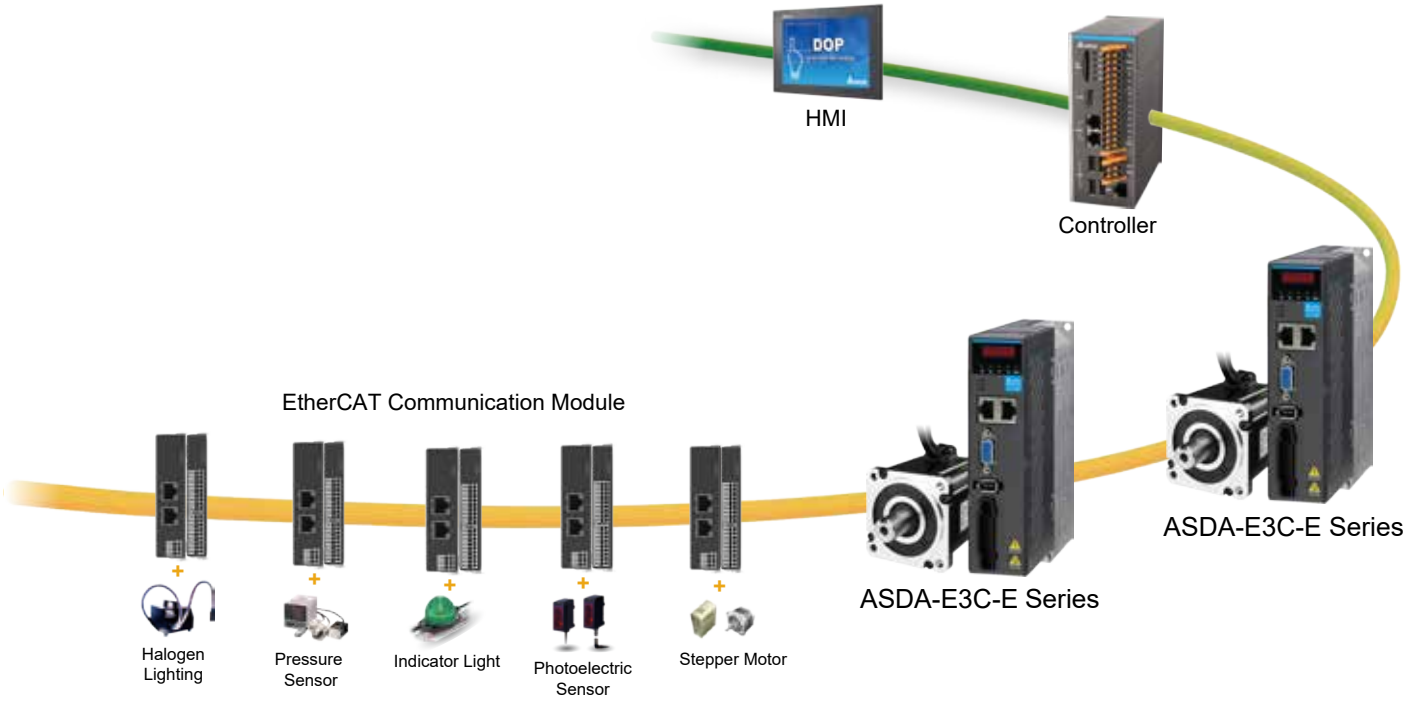
Shortened Synchronization Cycle

- Synchronization Cycle: 125 μs (8x faster than the ASDA-A2 Series)



Simplified Wiring

- Replaces single-axis pulse wiring with high-speed EtherCAT, suitable for multi-axis control and allowing remote I/O module connection with a single wiring.



EtherCAT Communication Functions

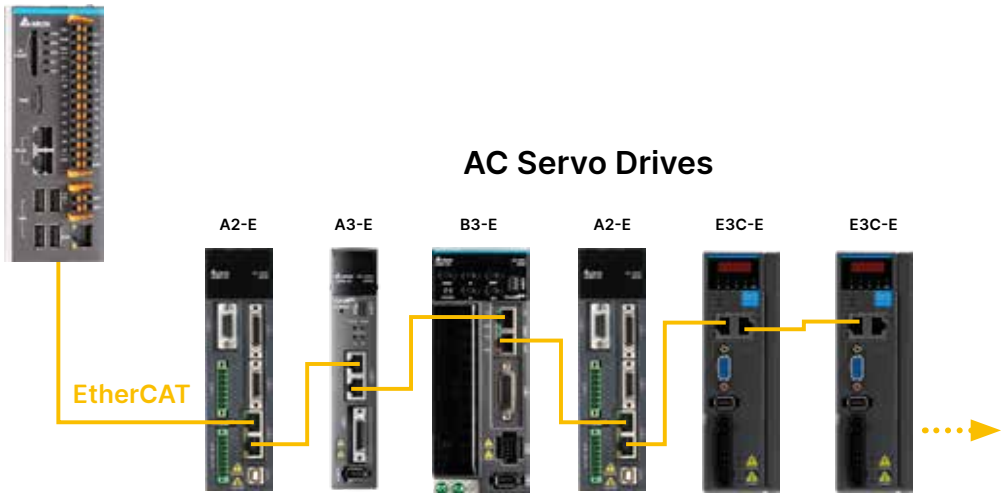
Flexible & Scalable Connection

- Maximum Distance between Stations: 50m (with the number of axes determined by the controller's capacity)



Backward Compatibility

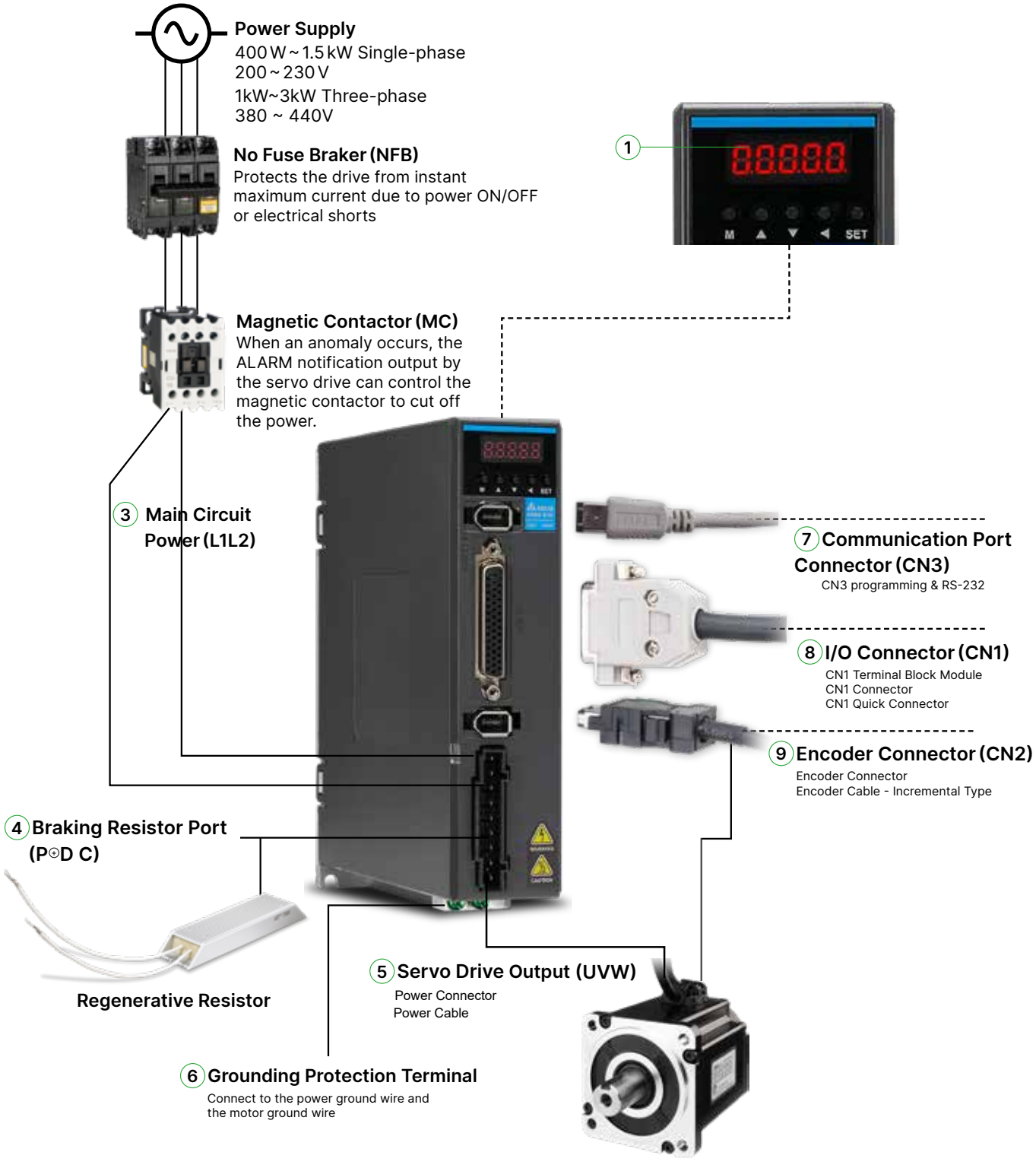
- The EtherCAT models of the A3, B3, E3, and E3C Series are fully compatible with the A2-E Series. When previous and new models are used together, the synchronization cycle will be determined by the model with the slower update rate.



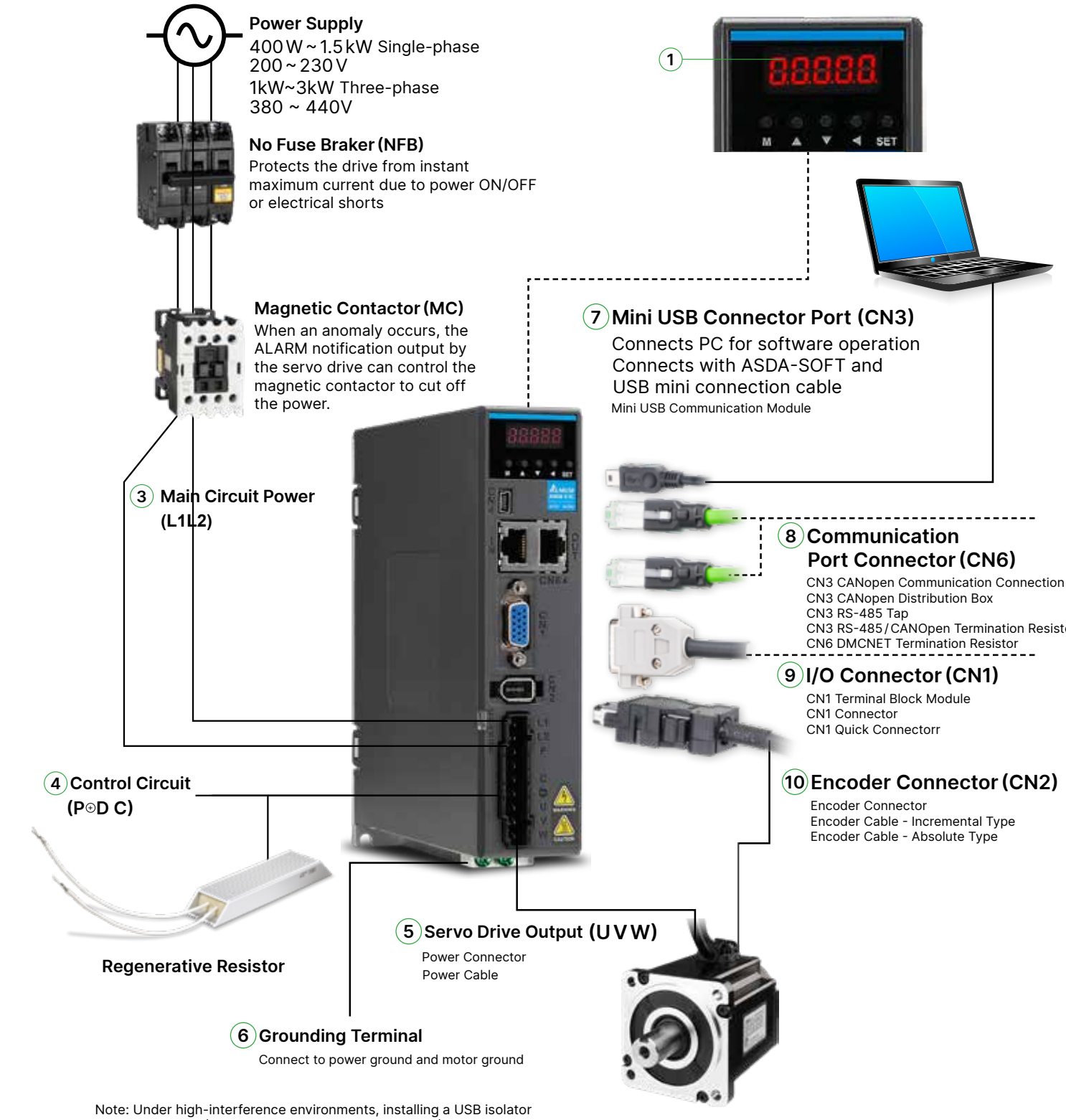
Introduction

Servo System ASDA-E3C Series

Servo Drive Configuration & Connections (Applicable to E3C-L models)



Servo Drive Configuration & Connections (Applicable to E3C-E models)



Note: Under high-interference environments, installing a USB isolator is recommended (Delta's product model: UC-ADP01-A)

Introduction

Servo System ASDA-E3C Series

Servo Drive Interface

No.	Name	Description
①	-	7-segment display
③	Main Circuit Power L1L2	Main circuit power; connects to power supply (200 ~ 230 V_{AC} , 50/60 Hz power supply)
④	Regenerative Resistor	Connects to an external regenerative resistor, external regenerative braking unit, or the built-in regenerative resistor
⑤	UVW	Servo Drive current output; connects to the motor power connector U, V, W. Do not connect to the main circuit power. Incorrect wiring may damage the servo driver.
⑥	Ground Terminal	Connects to the ground wire for the power and servo motor
⑦	CN3	RS-232 (For communication or PC) (E3C-L)
	CN4	Mini USB connector, connect to PC (E3C-E)
	CN6	EtherCAT high-speed communication port (E3C-E)
⑧	CN1	I/O signal interface; connects to the PLC or controls I/O
⑨	CN2	Encoder connector; connects to the encoder of the servo motors

Parts list

Power Cables

- 3 m, 5 m, 10 m, and 20 m standard cables are available
- With options of brake and without brake

Encoder Cables

- 3 m, 5 m, 10 m, and 20 m standard cables are available

PC Communication Cables

- Connects the PC and the servo drive for ASDA-Soft operation
- Model: ACS3-CNUS0A08 (for E3C-L)*
- Model: UC-PRG015-01B (for E3C-E)

Note: * ACS3-CNUS0A08 is the new part number for the 3rd-generation servo series, identical to the B2 series cable (ASD-CNUS0A08).

Regeneration Resistor Specifications

ASDA-E3C Series 200 V			400 W	750 W	1 kW	1.5 kW
			04	07	10	15
Regenerative Resistor	Built-In Regenerative Resistor	Resistance (Ohm)	100*	100	100	100
		Capacity (Watt)	36*	36	40	40
	External Minimum Allowable Resistance Value(Ohm)		60	60	30	30

*For other models, please contact the agent or distributor.

ASDA-E3C Series 400 V			1 kW	1.5 kW	2 kW	3 kW
			10	15	20	30
Regenerative Resistor	Built-In Regenerative Resistor	Resistance (Ohm)	100	100	50	50
		Capacity (Watt)	80	80	80	80
	External Minimum Allowable Resistance Value(Ohm)		80	60	45	40

Servo System Correspondence Table

Servo System ASDA-E3C Series

200 V Servo System - Motors 40 Frame ~ 80 Frame (Built-In)

Motor						Drive		Power Cable		
Series	Frame Size	Output (W)	Model Name	Rotational Inertia (x10-4kg.m^2)	Rated / Max. Current (A)	Drive model	Rated / Max. Current (A)	Standard	Torsion-Resistant	Standar
L	40	100	ECM-E3L-C ② 0401RBE	0.030	0.86 / 3.44	ASD-E3C-0421- ①	2.65 / 10.6	ACS3-AFPWSRXX ACS3-ABPWSRXX ACS3-AFPWSR0C ACS3-ABPWSR0C	ACS3-AFPRSRXX ACS3-ABPRSRXX ACS3-AFPRSR0C ACS3-ABPRSR0C	ACS3-AFPW ACS3-ABPW ACS3-AFPW ACS3-ABPW
			ECM-E3L-C ② 0401SBE	0.032	0.86 / 3.44					
M	60	200	ECM-E3G-C ② 0807SBE	0.141	1.42 / 6.62					
			ECM-E3M-C ② 0602SBE	0.151	1.42 / 6.62					
		400	ECM-E3M-C ② 0604RBE	0.254	2.40 / 9.47					
			ECM-E3M-C ② 0604SBE	0.264	2.40 / 9.47					
	80	750	ECM-E3M-C ② 0807RBE	1.070	4.27 / 15.80	ASD-E3C-0721- ① ASD-E3C-1021- ①	5.1 / 14.14 7.3 / 21.21			
			ECM-E3M-C ② 0807SBE	1.130	4.27 / 15.80					
H	40	100	ECM-E3H-C ② 0401RBE	0.064	0.781 / 3.68	ASD-E3C-0421- ①	2.65 / 10.6			
			ECM-E3H-C ② 0401SBE	0.065	0.781 / 3.68					
	60	200	ECM-E3H-C ② 0602RBE	0.265	1.51 / 6.12					
			ECM-E3H-C ② 0602SBE	0.280	1.51 / 6.12					
		400	ECM-E3H-C ② 0604RBE	0.523	2.21 / 8.46					
			ECM-E3H-C ② 0604SBE	0.538	2.21 / 8.46					
	80	750	ECM-E3H-C ② 0807RBE	1.550	4.19 / 16.30	ASD-E3C-0721- ① ASD-E3C-1021- ①	5.1 / 14.14 7.3 / 21.21			
			ECM-E3H-C ② 0807SBE	1.620	4.19 / 16.30					
G	60	400	ECM-E3G-C ② 0604RBE	0.881	2.40 / 9.47	ASD-E3C-0421- ①	2.65 / 10.6			
			ECM-E3G-C ② 0604SBE	0.888	2.40 / 9.47					
	80	750	ECM-E3G-C ② 0807RBE	2.910	4.27 / 15.80	ASD-E3C-0721- ① ASD-E3C-1021- ①	5.1 / 14.14 7.3 / 21.21			
			ECM-E3G-C ② 0807SBE	2.960	4.27 / 15.80					

Connector & Cable						Connector Only (No Cable)		
Brake Cable		Incremental Encoder Line		Absolute Encoder Line		Power Connector	Power Connector (with brake) / Brake Connector	Encoder Connector
rd	Torsion-Resistant	Standard	Torsion-Resistant	Standard	Torsion-Resistant			
/SSXX /SSXX 'SS0C /SS0C	ACS3-AFPRSSXX ACS3-ABPRSSXX ACS3-AFPRSS0C ACS3-ABPRSS0C	ACS3-AFEASIXX ACS3-ABEASIXX ACS3-AFEASI0C ACS3-ABEASI0C	ACS3-AFERSIXX ACS3-ABERSIXX ACS3-AFERSI0C ACS3-ABERSI0C	ACS3-AFEASAXX ACS3-ABEASAXX ACS3-AFEASA0C ACS3-ABEASA0C	ACS3-AFERSAXX ACS3-ABERSAXX ACS3-AFERSA0C ACS3-ABERSA0C	ACS3-AFPWSS00 ACS3-ABPWSS00	ACS3-AFPWSS00 ACS3-ABPWSS00	ACS3-CNENC200 + ACS3-AFEASA00

Servo System Correspondence Table

Servo System ASDA-E3C Series

200 V Servo System - Motor 130 Frame ~ 180 Frame (Military Gr

Motor						Drive		Power Cable		B
Series	Frame Size	Output (W)	Model Name	Rotational Inertia (x10-4kg.m^2)	Rated / Max. Current (A)	Drive model	Rated / Max. Current (A)	Standard	Torsion-Resistant	Standard
M	130	1000	ECM-E3M-E ② 1310RSE	7.790	5.96 / 19.90	ASD-E3C-1021- ①	7.3 / 21.21	ACS3-CAPWA2XX ACS3-CRPWA2XX	ACS3-CAPFA2XX ACS3-CRPFA2XX	ACS3-CABRA ACS3-CRBRA ACS3-CABRM ACS3-CRBRM
			ECM-E3M-E ② 1310SSE	7.940	5.96 / 19.90					
		1500	ECM-E3M-E ② 1315RSE	11.220	8.17 / 26.82	ASD-E3C-1521- ①	8.3 / 27			
			ECM-E3M-E ② 1315SSE	11.370	8.17 / 26.82					
H	130	850	ECM-E3H-F ② 1308RSE	12.440	6.65 / 20.00	ASD-E3C-1021- ①	7.3 / 21.21			
			ECM-E3H-F ② 1308SSE	12.620	6.65 / 20.00					
		1300	ECM-E3H-F ② 1313RSE	18.000	7.70 / 23.90	ASD-E3C-1521- ①	8.3 / 27			
			ECM-E3H-F ② 1313SSE	18.140	7.70 / 23.90					

rade Connector)

Connector & Cable						Connector Only (No Cable)		
rake Cable		Incremental Encoder Line		Absolute Encoder Line		Power Connector	Power Connector (with brake) / Brake Connector	Encoder Connector
	Torsion-Resistant	Standard	Torsion-Resistant	Standard	Torsion-Resistant			
1XX 1XX 1XX 1XX	ACS3-CABFA1XX ACS3-CRBFA1XX ACS3-CABFM1XX ACS3-CRBFM1XX	ACS3-CAENA1XX ACS3-CRENA1XX ACS3-CAENM1XX ACS3-CRENM1XX	ACS3-CAEFA1XX ACS3-CREFA1XX ACS3-CAEFM1XX ACS3-CREFM1XX	ACS3-CAEAA1XX ACS3-CREAA1XX ACS3-CAEAM1XX ACS3-CREAM1XX	ACS3-CAEBA1XX ACS3-CREBA1XX ACS3-CAEBM1XX ACS3-CREBM1XX	ACS3-CAPWA000 ACS3-CRPWA000	ACS3-CABRA000 ACS3-CRBRA000 ACS3-CABRM000 ACS3-CRBRM000	ACS3-CNENC200 + ACS3-CAENA000 ACS3-CRENA000 ACS3-CAENM000 ACS3-CRENM000

Servo System Correspondence Table

Servo System ASDA-E3C Series

400 V Servo System - Motor 40 Frame ~ 80 Frame (Built-In)

Motor						Drive		Power Cable		
Series	Frame Size	Output (W)	Model Name	Rotational Inertia (x10-4kg.m^2)	Rated / Max. Current (A)	Drive model	Rated / Max. Current (A)	Standard	Torsion-Resistant	Sta
M	60	400	ECM-E3M-J ② 0604RBE	0.254	1.35 / 5.20	ASD-E3C-1043- ①	3.37 / 7.07	ACS3-AFPWSAXX ACS3-ABPWSAXX	ACS3-AFPRSAXX ACS3-ABPRSAXX	ACS3-A ACS3-A
			ECM-E3M-J ② 0604SBE	0.264						
	80	750	ECM-E3M-J ② 0807RBE	1.07	2.15 / 7.90	ASD-E3C-1043- ① ASD-E3C-1543- ①	3.37 / 7.07 4.09 / 10.06			
			ECM-E3M-J ② 0807SBE	1.13						
H	60	400	ECM-E3H-J ② 0604RBE	0.523	1.41 / 5.38	ASD-E3C-1043- ①	3.37 / 7.07			
			ECM-E3H-J ② 0604SBE	0.53						
	80	750	ECM-E3H-J ② 0807RBE	1.55	2.1 / 8.15	ASD-E3C-1043- ① ASD-E3C-1543- ①	3.37 / 7.07 4.09 / 10.06			
			ECM-E3H-J ② 0807SBE	1.62						

Connector & Cable						Connector Only (No Cable)		
Brake Cable		Incremental Encoder Line		Absolute Encoder Line		Power Connector	Power Connector (with brake) / Brake Connector	Encoder Connector
ndard	Torsion-Resistant	Standard	Torsion-Resistant	Standard	Torsion-Resistant			
FPWSBXX BPWSBXX	ACS3-AFPRSBXX ACS3-ABPRSBXX	ACS3-AFEASIXX ACS3-ABEASIXX	ACS3-AFERSIXX ACS3-ABERSIXX	ACS3-AFEASAXX ACS3-ABEASAXX	ACS3-AFERSAXX ACS3-ABERSAXX	ACS3-AFPWSS00 ACS3-ABPWSS00	ACS3-AFPWSS00 ACS3-ABPWSS00	ACS3-CNENC200 + ACS3-AFEASA00

Servo System Correspondence Table

Servo System ASDA-E3C Series

400 V Servo System - Motor 130 Frame ~ 180 Frame (Military-Gr

Motor						Drive		Power Cable		
Series	Frame Size	Output (W)	Model Name	Rotational Inertia (x10-4kg.m^2)	Rated / Max. Current (A)	Drive model	Rated / Max. Current (A)	Standard	Torsion-Resistant	Stand
M	130	1000	ECM-E3M-K ② 1310RSE	7.790	3.00 / 9.95	ASD-E3C-1043- ① ASD-E3C-1543- ①	3.37 / 7.07 4.09 / 10.06	ACS3-CAPWA2XX ACS3-CRPWA2XX	ACS3-CAPFA2XX ACS3-CRPFA2XX	ACS3-CA ACS3-CR ACS3-CA ACS3-CR
			ECM-E3M-K ② 1310SSE	7.940						
		1500	ECM-E3M-K ② 1315RSE	11.220	4.09 / 13.37	ASD-E3C-1543- ① ASD-E3C-2043- ①	4.09 / 10.06 5.96 / 18.98			
			ECM-E3M-K ② 1315SSE	11.370						
		2000	ECM-E3M-K ② 1320RSE	14.650	5.30 / 17.1	ASD-E3C-2043- ①	5.96 / 18.98			
			ECM-E3M-K ② 1320SSE	14.800						
	180	3000	ECM-E3M-L ② 1830RSE	53.630	9.1 / 29.45	ASD-E3C-3043- ①	9.11 / 27.33	ACS3-CAPWC3XX ACS3-CRPWC3XX	ACS3-CAPFC3XX ACS3-CRPFC3XX	
			ECM-E3M-L ② 1830SSE	54.900						
H	130	850	ECM-E3H-L ② 1308RSE	12.440	3.35 / 10.0	ASD-E3C-1043- ① ASD-E3C-1543- ①	3.37 / 7.07	ACS3-CAPWA2XX ACS3-CRPWA2XX	ACS3-CAPFA2XX ACS3-CRPFA2XX	
			ECM-E3H-L ② 1308SSE	12.620			4.09 / 10.06			
		1300	ECM-E3H-L ② 1313RSE	18.000	3.85 / 12.0	ASD-E3C-1543- ① ASD-E3C-2043- ①	4.09 / 10.06			
			ECM-E3H-L ② 1313SSE	18.140			5.96 / 18.98			
		1800	ECM-E3H-L ② 1318RSE	22.600	5.75 / 18.1	ASD-E3C-2043- ①	5.96 / 18.98			
			ECM-E3H-L ② 1318SSE	22.800						

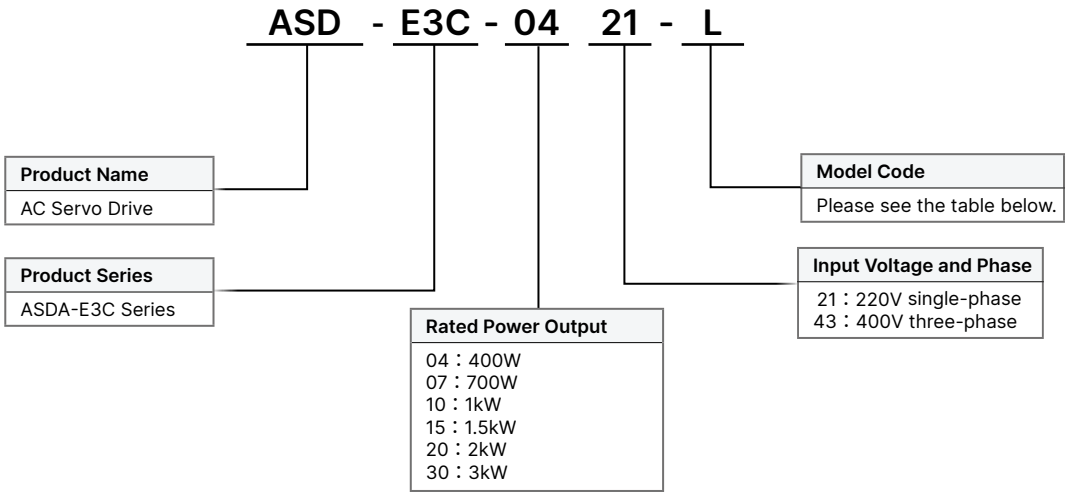
ade Connector)

Connector & Cable						Connector Only (No Cable)		
Brake Cable		Incremental Encoder Line		Absolute Encoder Line		Power Connector	Power Connector (with brake) / Brake Connector	Encoder Connector
lard	Torsion-Resistant	Standard	Torsion-Resistant	Standard	Torsion-Resistant			
						ACS3-CAPWA000 ACS3-CRPWA000		
BRA1XX BRA1XX BRM1XX BRM1XX	ACS3-CABFA1XX ACS3-CRBFA1XX ACS3-CABFM1XX ACS3-CRBFM1XX	ACS3-CAENA1XX ACS3-CRENA1XX ACS3-CAENM1XX ACS3-CRENM1XX	ACS3-CAEFA1XX ACS3-CREFA1XX ACS3-CAEFM1XX ACS3-CREFM1XX	ACS3-CAEAA1XX ACS3-CREAA1XX ACS3-CAEAM1XX ACS3-CREAM1XX	ACS3-CAEBA1XX ACS3-CREBA1XX ACS3-CAEBM1XX ACS3-CREBM1XX	ACS3-CAPWC000 ACS3-CRPWC000	ACS3-CABRA000 ACS3-CRBRA000 ACS3-CABRM000 ACS3-CRBRM000	ACS3-CNENC200 + ACS3-CAENA000 ACS3-CRENA000 ACS3-CAENM000 ACS3-CRENM000
						ACS3-CAPWA000 ACS3-CRPWA000		

Servo Drive Model Name Explanation

Servo System ASDA-E3C Series

ASDA-E3C Series Servo Drive



ASDA-E3C

Code	PT Mode Pulse Input	PR Mode	RS-485	Analog Voltage Control	CANopen	DMCNET	EtherCAT	STO
L	○	○	○	○	X	X	X	X
E	X	○	X	X	X	X	○	X
EF	X	○	X	X	X	X	○	○



Servo Drive Series Specifications

Servo System ASDA-E3C Series

L Model Specifications 200 V

ASD-E3C			400 W	750 W	1 kW	1.5 kW
			04	07	10	15
Power Supply	Phase / Voltage		Single-phase 220 V_{AC}			
	Permissible Voltage		Single-phase 200 ~ 230 VAC，-15% ~ +10%			
	Input Current (1PH) (Arms)		3.7	6.37	10	11.3
	Surge Current (220V) (Arms)		5.5	5.5	12.47	12.47
Continuous Output Current (Arms)			2.65	5.1	7.3	8.3
Max. Instantaneous Output Current (Arms)			10.6	14.14	21.21	27
Regenerative Resistor	Built-In Regenerative Resistor	Resistance (Ohm)	100[*5]	100	100	100
		Capacity (Watt)	36[*5]	36	40	40
	External Minimum Allowable Resistance Value (Ohm)		60	60	30	30
Cooling Method			Natural cooling		Fan cooling	
Drive Resolution			24-bit (16777216 p/rev)			
Main Circuit Control			SVPW Mcontrol			
Tuning Mode			Auto / Manual			
Position Control Mode	Pulse Type		Pulse + Direction; A phase + B phase; CCW pulse +CW pulse			
	Max. Output Pulse Frequency		Pulse + direction: 4 Mpps; CCW pulse + CW pulse: 4 Mpps; A phase + B phase: single-phase 2 Mpps; Open collector: 200 Kpps			
	Command Source		External pulse (only for pulse control mode) / Internal register (PR mode)			
	Smoothing Method		Low-pass, S-curve, and moving filters			
	E-Gear Ratio		E-Gear ratio: N / M times, limited to (1 / 4 < N / M < 262144)			
	Torque Limit		Parameter settings			
	Feed Forward Compensation		Parameter settings			
Speed Control Mode	Analog Command Input	Voltage Range	-10 ~ +10 V_{DC}			
		Resolution	12-bit			
		Input Impedance	1 MΩ			
		Time Constant	25 μs			
	Speed Control Range[*1]		1 : 6000			
	Command Source		External analog command / Internal register			
	Smoothing Method		Low-pass and S-curve filters			
	Torque Limit		Parameter settings or analog input			
	Bandwidth		2.5 kHz			
	Speed Calibration Ratio[*2]		±0.01% at 0% to 100% load fluctuation			
			±0.01% at ±10% power fluctuation			
			±0.01% at 0°C to 45°C ambient temperature fluctuation			
Torque Control Mode	Analog Command Input	Voltage Range	-10 ~ +10 V_{DC}			
		Input Impedance	1 MΩ			
		Time Constant	25 μs			
	Command Source		External analog command / Internal register			
	Smoothing Method		Low-pass filter			
	Speed Limit		Parameter settings or analog input			
Analog Monitor Output			Monitoring signal can be set with parameters (voltage output range: ±8V); resolution: 10-bit			
Digital Input			L: 9 Inputs			
Digital Output			L: 6 Outputs			
Protection Function			Overcurrent, Overvoltage, Undervoltage, Overheat, Regeneration error, Overload, Excessive speed deviation, Excessive position deviation, Encoder error, Adjustment error, Emergency stop, Forward / reverse limit error, Serial communication error, RST leak phase, Serial communication timeout, Short-circuit protection for terminals U, V, W			
Communication Interface			RS-485 / RS-232			
Environment	Installation Site		Indoors (avoid direct sunlight), no corrosive vapor (avoid fumes, flammable gases, and dust)			
	Altitude		Altitude 2000 m or lower above sea level			
	Atmospheric Pressure		86 kPa ~ 106 kPa			
	Operating Temperature		0°C ~ 55°C (If operating temperature is above 45°C, forced cooling is required)			
	Storage Temperature		-20°C ~ +65°C			
	Humidity		0 ~ 90% RH (non-condensing)			
	Vibration		10 Hz ~ 57 Hz：0.075 mm amplitude，58 Hz ~ 150 Hz：1G			
	IP Rating		IP20			
	Power System		TN system / TT system[*3]			
	Certifications		IEC / EN / UL 61800-5-1 CE UL [*4]			

Notes:
*1. Within the rated load, the speed ratio is: the minimum speed (smooth operation) / rated speed.
*2. Within the rated speed, the speed calibration ratio is: (rotational speed with no load - rotational speed with full load) / rated speed.
*3. TN system: the neutral point of the power system connects directly to the ground. The exposed metal components connect to the ground through the protective ground conductor.
*4. UL certification pending.
*5. For applicable models, please contact your distributor or sales representative.

Servo Drive Series Specifications

Servo System ASDA-E3C Series

E Model Specifications 200 V

ASD-E3C			400 W	750 W	1 kW	1.5 kW
			04	07	10	15
Power Supply	Phase / Voltage		Single-phase 220 V_{AC}			
	Permissible Voltage		Single-phase 200 ~ 230 VAC，-15% ~ +10%			
	Input Current (1PH) (Arms)		3.7	6.37	10	11.3
	Surge Current (220V) (Arms)		5.5	5.5	12.47	12.47
Continuous Output Current (Arms)			2.65	5.1	7.3	8.3
Max. Instantaneous Output Current (Arms)			10.6	14.14	21.21	27
Regenerative Resistor	Built-In Regenerative Resistor	Resistance (Ohm)	100[*5]	100	100	100
		Capacity (Watt)	36[*5]	36	40	40
	External Minimum Allowable Resistance Value (Ohm)		60	60	30	30
Cooling Method			Natural cooling		Fan cooling	
Drive Resolution			24-bit (16777216 p/rev)			
Main Circuit Control			SVPW Mcontrol			
Tuning Mode			Auto / Manual			
Position Control Mode	Command Source		External pulse (only for pulse control mode) / Internal register (PR mode)			
	Smoothing Method		Low-pass, S-curve, and moving filters			
	E-Gear Ratio		E-Gear ratio: N / M times, limited to (1 / 4 < N / M < 262144)			
	Torque Limit		Parameter settings			
	Feed Forward Compensation		Parameter settings			
Speed Control Mode	Speed Control Range[*1]		1 : 6000			
	Command Source		External analog command / Internal register			
	Smoothing Method		Low-pass and S-curve filters			
	Torque Limit		Parameter settings or analog input			
	Bandwidth		2.5 kHz			
	Speed Calibration Ratio[*2]		±0.01% at 0% to 100% load fluctuation			
			±0.01% at ±10% power fluctuation			
			±0.01% at 0°C to 45°C ambient temperature fluctuation			
Torque Control Mode	Command Source		External analog command / Internal register			
	Smoothing Method		Low-pass filter			
	Speed Limit		Parameter settings or analog input			
Digital Input			L: 6 Inputs			
Digital Output			L: 3 Outputs			
Protection Function			Overcurrent, Overvoltage, Undervoltage, Overheat, Regeneration error, Overload, Excessive speed deviation, Excessive position deviation, Encoder error, Adjustment error, Emergency stop, Forward / reverse limit error, Serial communication error, RST leak phase, Serial communication timeout, Short-circuit protection for terminals U, V, W			
Communication Interface			USB / EtherCAT			
Environment	Installation Site		Indoors (avoid direct sunlight), no corrosive vapor (avoid fumes, flammable gases, and dust)			
	Altitude		Altitude 2000 m or lower above sea level			
	Atmospheric Pressure		86 kPa ~ 106 kPa			
	Operating Temperature		0°C ~ 55°C (If operating temperature is above 45°C, forced cooling is required)			
	Storage Temperature		-20°C ~ +65°C			
	Humidity		0 ~ 90% RH (non-condensing)			
	Vibration		10 Hz ~ 57 Hz：0.075 mm amplitude，58 Hz ~ 150 Hz：1 G			
	IP Rating		IP20			
	Power System		TN system / TT system[*3]			
	Certifications		IEC / EN / UL 61800-5-1			

Notes:
*1. Within the rated load, the speed ratio is: the minimum speed (smooth operation) / rated speed.
*2. Within the rated speed, the speed calibration ratio is: (rotational speed with no load - rotational speed with full load) / rated speed.
*3. TN system: the neutral point of the power system connects directly to the ground. The exposed metal components connect to the ground through the protective ground conductor.
*4. UL certification pending.
*5. For applicable models, please contact your distributor or sales representative.

Servo Drive Series Specifications

Servo System ASDA-E3C Series

L Model Specifications 400 V

ASD-E3C			1 kW	1.5 kW	2 kW	3 kW
			10	15	20	30
Power Supply	Phase / Voltage		Three-phase 400 V_{AC}			
	Permissible Voltage		Three-phase 380 ~ 440 VAC，-10% ~ +10%			
	Input Current (1PH) (Arms)		2.91	3.52	5.06	6.14
Continuous Output Current (Arms)			3.37	4.09	5.96	9.11
Max. Instantaneous Output Current (Arms)			7.07	10.06	18.98	27.33
Regenerative Resistor	Built-In Regenerative Resistor	Resistance (Ohm)	100	100	50	50
		Capacity (Watt)	80	80	80	80
	External Minimum Allowable Resistance Value (Ohm)		80	60	45	40
Cooling Method			Fan (PWM)			
Drive Resolution			24-bit (16777216 p/rev)			
Main Circuit Control			SVPWM Mcontrol			
Tuning Mode			Auto / Manual			
Position Control Mode	Pulse Type		Pulse + Direction; A phase + B phase; CCW pulse +CW pulse			
	Max. Output Pulse Frequency		Pulse + direction: 4 Mpps; CCW pulse + CW pulse: 4 Mpps; A phase + B phase: single-phase 2 Mpps; Open collector: 200 Kpps			
	Command Source		External pulse (only for pulse control mode) / Internal register (PR mode)			
	Smoothing Method		Low-pass, S-curve, and moving filters			
	E-Gear Ratio		E-Gear ratio: N / M times, limited to (1 / 4 < N / M < 262144)			
	Torque Limit		Parameter settings			
	Feed Forward Compensation		Parameter settings			
Speed Control Mode	Analog Command Input	Voltage Range	-10 ~ +10 V_{DC}			
		Resolution	12-bit			
		Input Impedance	1 MΩ			
		Time Constant	25 μs			
	Speed Control Range[*1]		1 : 6000			
	Command Source		External analog command / Internal register			
	Smoothing Method		Low-pass and S-curve filters			
	Torque Limit		Parameter settings or analog input			
	Bandwidth		2.5 kHz			
	Speed Calibration Ratio[*2]		±0.01% at 0% to 100% load fluctuation			
			±0.01% at ±10% power fluctuation			
			±0.01% at 0°C to 45°C ambient temperature fluctuation			
Torque Control Mode	Analog Command Input	Voltage Range	-10 ~ +10 V_{DC}			
		Input Impedance	1 MΩ			
		Time Constant	25 μs			
	Command Source		External analog command / Internal register			
	Smoothing Method		Low-pass filter			
	Speed Limit		Parameter settings or analog input			
Analog Monitor Output			Monitoring signal can be set with parameters (voltage output range: ±8V); resolution: 10-bit			
Digital Input			L: 9 Inputs			
Digital Output			L: 6 Outputs			
Protection Function			Overcurrent, Overvoltage, Undervoltage, Overheat, Regeneration error, Overload, Excessive speed deviation, Excessive position deviation, Encoder error, Adjustment error, Emergency stop, Forward / reverse limit error, Serial communication error, RST leak phase, Serial communication timeout, Short-circuit protection for terminals U, V, W			
Communication Interface			RS-485 / RS-232			
Environment	Installation Site		Indoors (avoid direct sunlight), no corrosive vapor (avoid fumes, flammable gases, and dust)			
	Altitude		Altitude 2000 m or lower above sea level			
	Atmospheric Pressure		86 kPa ~ 106 kPa			
	Operating Temperature		0°C ~ 55°C (If operating temperature is above 45°C, forced cooling is required)			
	Storage Temperature		-20°C ~ +65°C			
	Humidity		0 ~ 90% RH (non-condensing)			
	Vibration		10 Hz ~ 57 Hz：0.075 mm amplitude，58 Hz ~ 150 Hz：1G			
	IP Rating		IP20			
	Power System		TN system / TT system[*3]			
	Certifications		IEC / EN / UL 61800-5-1 CE UL [*4]			

Notes:
*1. Within the rated load, the speed ratio is: the minimum speed (smooth operation) / rated speed.
*2. Within the rated speed, the speed calibration ratio is: (rotational speed with no load - rotational speed with full load) / rated speed.
*3. TN system: the neutral point of the power system connects directly to the ground. The exposed metal components connect to the ground through the protective ground conductor.
*4. UL certification pending.

Servo Drive Series Specifications

Servo System ASDA-E3C Series

E Model Specifications 400 V

ASD-E3C			1kW	1.5kW	2kW	3kW
			10	15	20	30
Power Supply	Phase / Voltage		Three-phase 400 V_{AC}			
	Permissible Voltage		Three-phase 380 ~ 440 VAC，-10% ~ +10%			
	Input Current (1PH) (Arms)		2.91	3.52	5.06	6.14
Continuous Output Current (Arms)			3.37	4.09	5.96	9.11
Max. Instantaneous Output Current (Arms)			7.07	10.06	18.98	27.33
Regenerative Resistor	Built-In Regenerative Resistor	Resistance (Ohm)	100	100	50	50
		Capacity (Watt)	80	80	80	80
	External Minimum Allowable Resistance Value (Ohm)		80	60	45	40
Cooling Method			Fan (PWM)			
Drive Resolution			24-bit (16777216 p/rev)			
Main Circuit Control			SVPW Mcontrol			
Tuning Mode			Auto / Manual			
Position Control Mode	Pulse Type		Pulse + Direction; A phase + B phase; CCW pulse +CW pulse			
	Max. Output Pulse Frequency		Pulse + direction: 4 Mpps; CCW pulse + CW pulse: 4 Mpps; A phase + B phase: single-phase 2 Mpps; Open collector: 200 Kpps			
	Command Source		External pulse (only for pulse control mode) / Internal register (PR mode)			
	Smoothing Method		Low-pass, S-curve, and moving filters			
	E-Gear Ratio		E-Gear ratio: N / M times, limited to (1 / 4 < N / M < 262144)			
	Torque Limit		Parameter settings			
	Feed Forward Compensation		Parameter settings			
Speed Control Mode	Analog Command Input	Voltage Range	-10 ~ +10 V_{DC}			
		Resolution	12-bit			
		Input Impedance	1MΩ			
		Time Constant	25μs			
	Speed Control Range[*1]		1 : 6000			
	Command Source		External analog command / Internal register			
	Smoothing Method		Low-pass and S-curve filters			
	Torque Limit		Parameter settings or analog input			
	Bandwidth		2.5kHz			
	Speed Calibration Ratio[*2]		±0.01% at 0% to 100% load fluctuation			
			±0.01% at ±10% power fluctuation			
			±0.01% at 0°C to 45°C ambient temperature fluctuation			
Torque Control Mode	Analog Command Input	Voltage Range	-10 ~ +10 V_{DC}			
		Input Impedance	1MΩ			
		Time Constant	25μs			
	Command Source		External analog command / Internal register			
	Smoothing Method		Low-pass filter			
	Speed Limit		Parameter settings or analog input			
Analog Monitor Output			Monitoring signal can be set with parameters (voltage output range: ±8V); resolution: 10-bit			
Digital Input			L: 9 Inputs			
Digital Output			L: 6 Outputs			
Protection Function			Overcurrent, Overvoltage, Undervoltage, Overheat, Regeneration error, Overload, Excessive speed deviation, Excessive position deviation, Encoder error, Adjustment error, Emergency stop, Forward / reverse limit error, Serial communication error, RST leak phase, Serial communication timeout, Short-circuit protection for terminals U, V, W			
Communication Interface			RS-485 / RS-232			
Environment	Installation Site		Indoors (avoid direct sunlight), no corrosive vapor (avoid fumes, flammable gases, and dust)			
	Altitude		Altitude 2000 m or lower above sea level			
	Atmospheric Pressure		86 kPa ~ 106 kPa			
	Operating Temperature		0°C ~ 55°C (If operating temperature is above 45°C, forced cooling is required)			
	Storage Temperature		-20°C ~ +65°C			
	Humidity		0 ~ 90% RH (non-condensing)			
	Vibration		10 Hz ~ 57 Hz：0.075 mm amplitude，58 Hz ~ 150 Hz：1G			
	IP Rating		IP20			
	Power System		TN system / TT system[*3]			
	Certifications		IEC / EN / UL 61800-5-1 CE UL [*4]			

Notes:
*1. Within the rated load, the speed ratio is: the minimum speed (smooth operation) / rated speed.
*2. Within the rated speed, the speed calibration ratio is: (rotational speed with no load - rotational speed with full load) / rated speed.
*3. TN system: the neutral point of the power system connects directly to the ground. The exposed metal components connect to the ground through the protective ground conductor.
*4. UL certification pending.

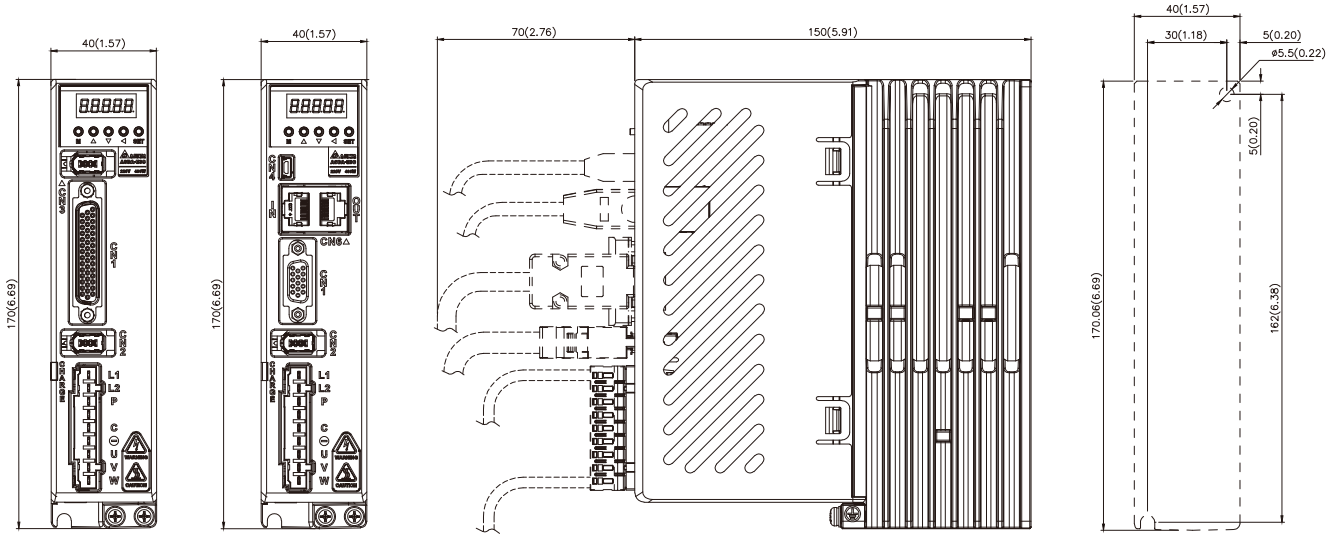
Servo Drive Series Specifications

Servo System ASDA-E3C Series

200 V Servo Drive

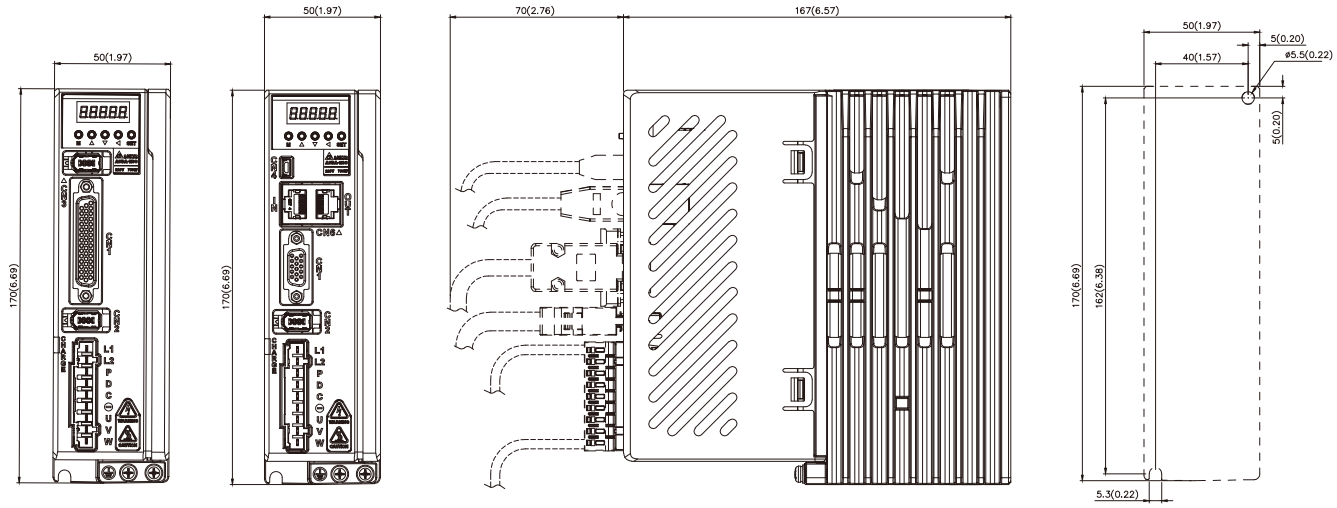
400W

Weight	Unit
0.75 kg (1.65 lb)	mm (inch)



750W

Weight	Unit
1.15 kg (2.54 lb)	mm (inch)



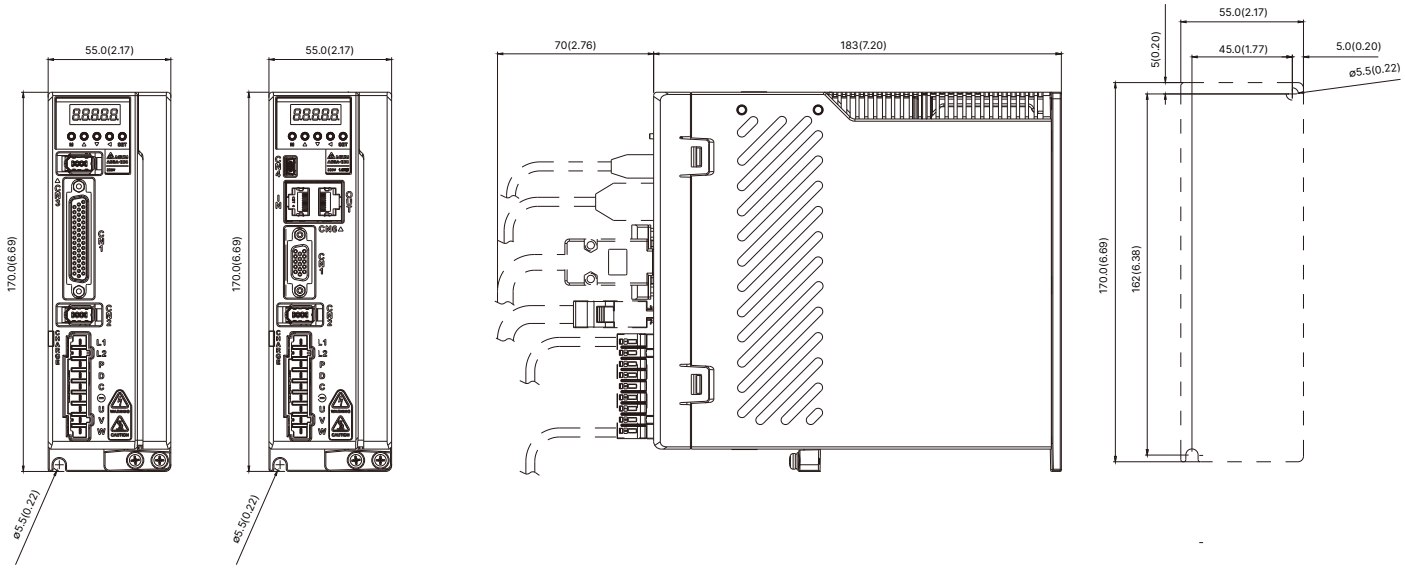
Servo Drive Series Specifications

Servo System ASDA-E3C Series

200 V Servo Drive

1 kW / 1.5 kW

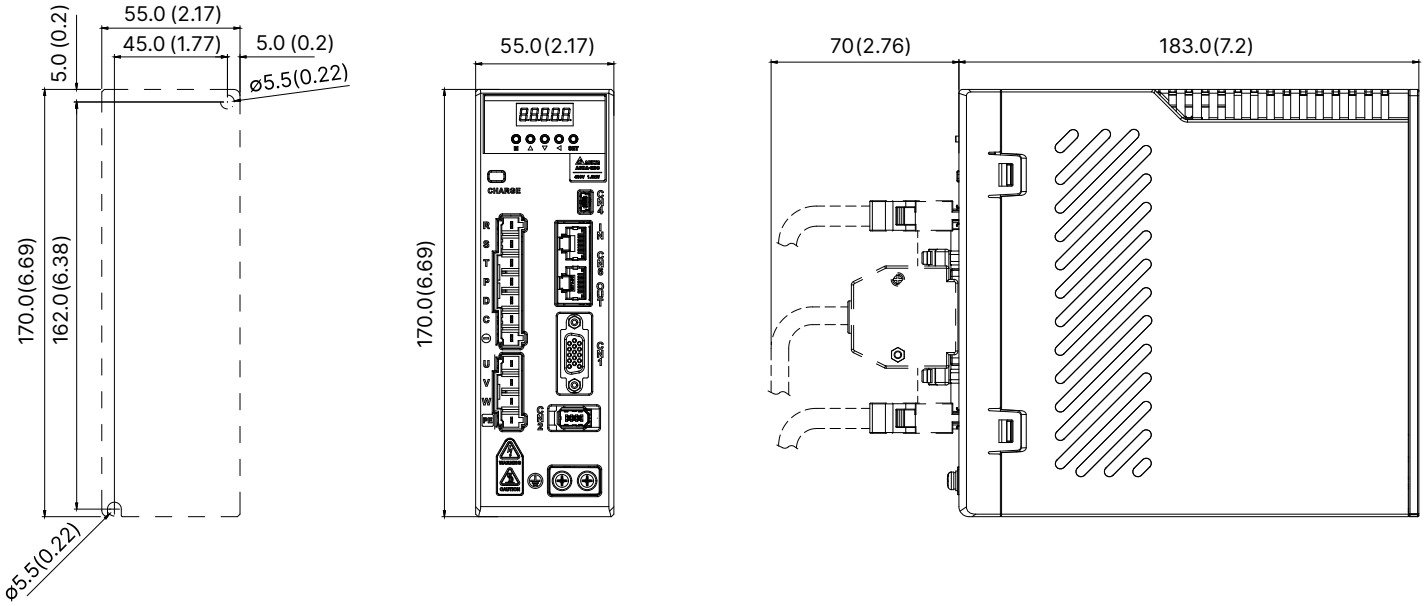
Weight	Unit
1.09 kg (2.40 lb)	mm (inch)



400 V Servo Drive

1 kW / 1.5 kW

Weight	Unit
1.23 kg	mm (inch)



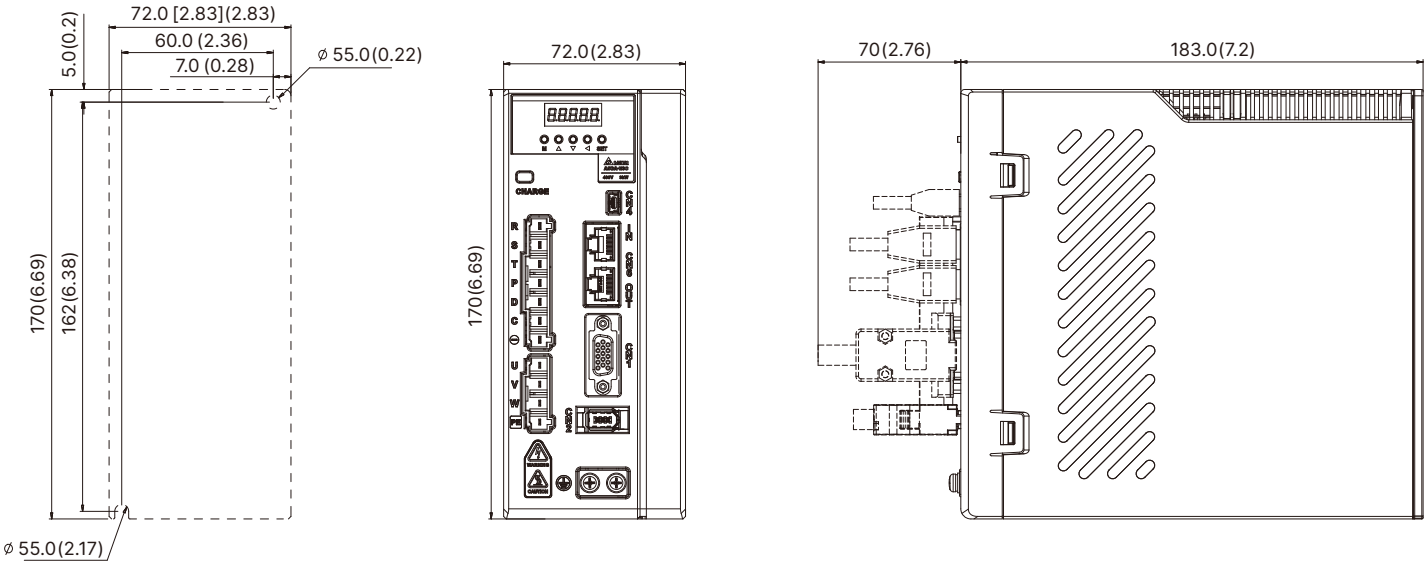
Servo Drive Series Specifications

Servo System ASDA-E3C Series

400 V Servo Drive

2 kW / 3 kW

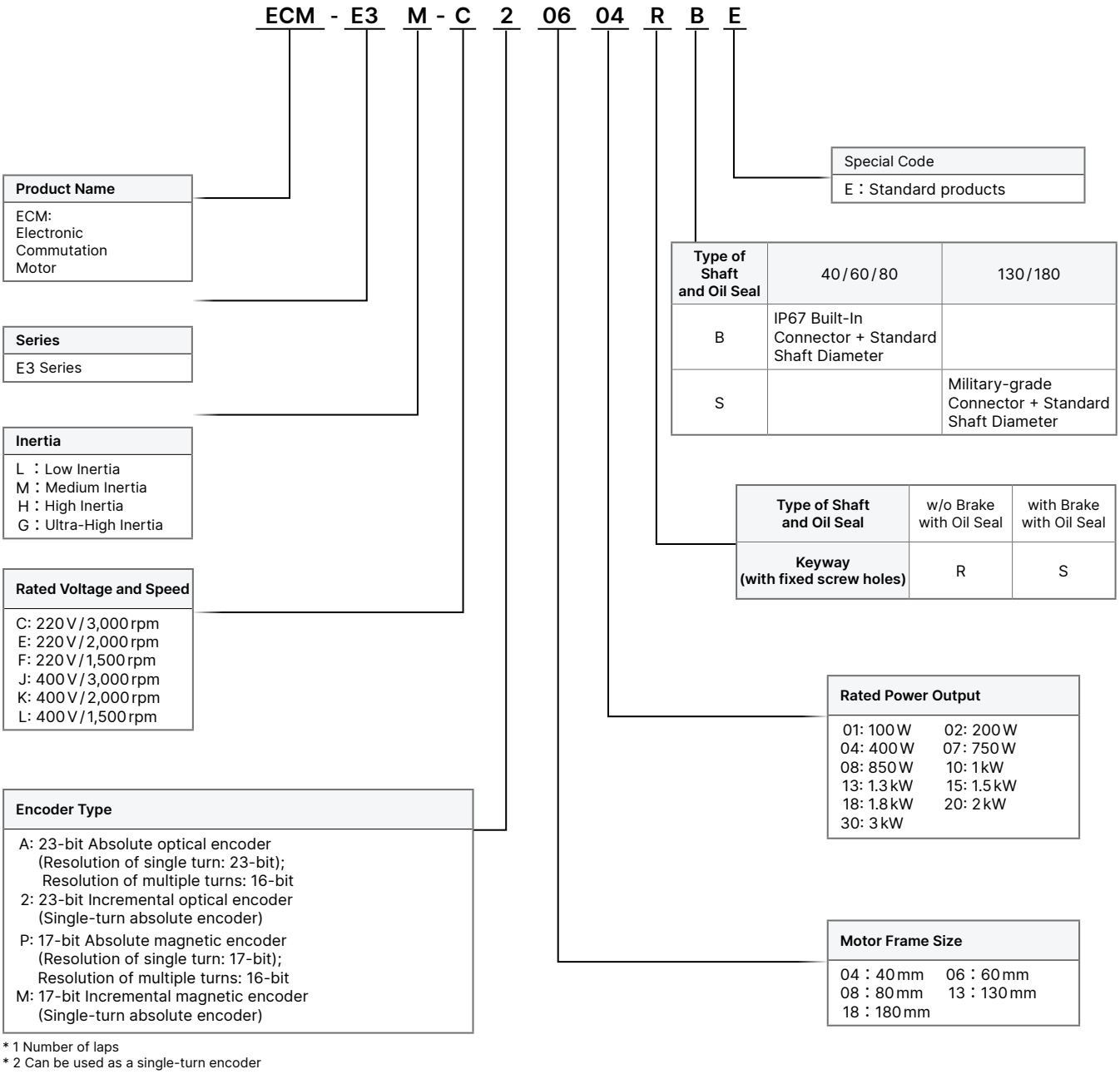
Weight	Unit
1.53 kg	mm (inch)



Servo Motor Model Name Explanation

Servo System ASDA-E3C Series

ECM-E3 Series Servo Motor



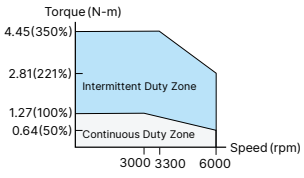
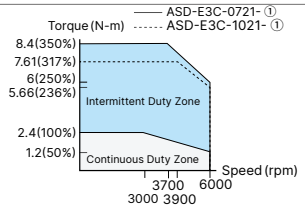
* 1 Number of laps
* 2 Can be used as a single-turn encoder

Note: The model information is for reference only. Not all kinds of model permutations are available.
Please contact the distributor near your region or Delta for the details.

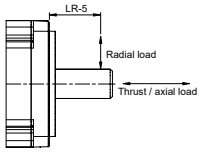
Servo Motor Series Specifications

Servo System ASDA-E3C Series

ECM-E3G Ultra-High Inertia Series Specifications 220 V

	ECM-E3G-C ② 0604	ECM-E3G-C ② 0807
Rated Power (kW)	0.4	0.75
Rated Torque (N-m) *2	1.27	2.4
Maximum Torque (N-m)	4.45	8.4
Rated Speed (rpm)	3,000	
Maximum Speed (rpm)	6,000	
Rated Current (Arms)	2.40	4.27
Max. Instantaneous Current (Arms)	9.47	15.8
Rated Power Rate (kW/s)	18.3	19.8
Rated Power Rate (kW/s) with brake	18.2	19.5
Rotor Inertia ($\times 10^{-4}$kg.m^2)	0.881	2.91
Rotor Inertia ($\times 10^{-4}$kg.m^2) with brake	0.888	2.96
Mechanical Time Constant (ms)	1.80	1.48
Mechanical Time Constant (ms) with brake	1.81	1.51
Torque Constant-KT (N-m/A)	0.53	0.56
Voltage Constant-KE (mV/(rpm))	19.76	20.17
Armature Resistance (Ohm)	2.04	0.55
Armature Inductance (mH)	6.50	2.81
Electrical Time Constant (ms)	3.19	5.11
Weight – without brake (kg)	1.46	2.88
Weight – with brake (kg)	1.89	3.66
Max. Radial Loading (N) *5	245	392
Max. Axial Loading (N) *5	74	147
Brake Working Voltage	24 V_{DC} ±10%	
Brake Power Consumption (at 20°C) [W]	7.6	8.5
Brake Holding Torque [Nt-m (min)] *3	1.3	3.2
Brake Release Time [ms (Max)]	20	40
Brake Pull-In Time [ms (Max)]	50	60
Derating (%) (with oil seal)	5	5
Torque Feature (T-N Curve)		
Insulation Class	Class (UL) , Class (CE)	
Insulation Resistance	> 100 MΩ , DC 500 V	
Insulation Strength	1.8 k V_{AC} , 1 sec	
Vibration Level (μm)	V15	
Operating Temperature	-20°C ~ 60°C*3	
Storage Temperature	-20°C ~ 80°C	
Storage & Operation Humidity	20 ~ 90% RH (non-condensing)	
Vibration Capacity	2.5 G	
IP Rating	IP67 (when using waterproof connections and when an oil seal is fitted to the rotating shaft (for an oil seal model))	
Certifications		

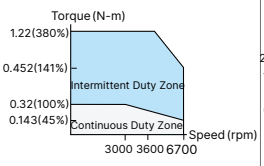
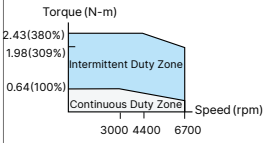
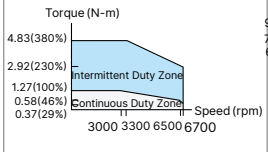
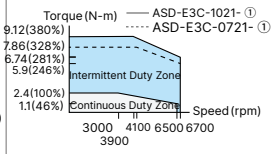
Notes:
1. In the servo motor model name, ② represents the encoder type.
2. The rated torque is the continuous permissible torque between 0 to 40ºC operating temperature which is suitable for the servo motor mounted with the following heat sink dimensions:
   F60, F80: 250 mm x 250 mm x 6 mm
   Material: Aluminum
3. The built-in servo motor brake is only for keeping the object in a stopped state.
   Do not use it for deceleration or as a dynamic brake
4. If the operating temperature is over 40ºC, refer to the power derating curves of E3 motors on page 40.
5. Please follow the max. tolerant loading of the motor shaft end listed below during operation



Servo Motor Series Specifications

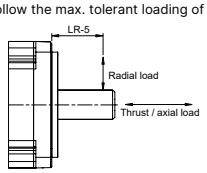
Servo System ASDA-E3C Series

ECM-E3H High Inertia Series Specifications 220 V

	ECM-E3H-C ② 0401	ECM-E3H-C ② 0602	ECM-E3H-C ② 0604	ECM-E3H-C ② 0807
Rated Power (kW)	0.1	0.2	0.4	0.75
Rated Torque (N-m)*2	0.32	0.64	1.27	2.4
Maximum Torque (N-m)	1.22	2.43	4.83	9.12
Rated Speed (rpm)	3,000			
Maximum Speed (rpm)	6,700			
Rated Current (Arms)	0.781	1.51	2.21	4.19
Max. Instantaneous Current (Arms)	3.68	6.12	8.46	16.3
Rated Power Rate (kW/s)	16.0	15.5	30.8	37.2
Rated Power Rate (kW/s) with brake	15.7	14.6	30.0	35.6
Rotor Inertia ($\times 10^{-4}$kg.m^2)	0.064	0.265	0.523	1.55
Rotor Inertia ($\times 10^{-4}$kg.m^2) with brake	0.0651	0.280	0.538	1.62
Mechanical Time Constant (ms)	1.18	1.78	1.31	0.825
Mechanical Time Constant (ms) with brake	1.20	1.88	1.34	0.862
Torque Constant-KT (N-m/A)	0.410	0.424	0.575	0.573
Voltage Constant-KE (mV/(rpm))	14.6	15.3	20.8	20.2
Armature Resistance (Ohm)	10.5	4.17	2.85	0.588
Armature Inductance (mH)	10.7	2	3.5	1
Electrical Time Constant (ms)	1.02	0.48	1.23	1.70
Weight – without brake (kg)	0.50	0.70	1.05	2.15
Weight – with brake (kg)	0.70	1.23	1.6	2.95
Max. Radial Loading (N)*5	78	245	245	392
Max. Axial Loading (N)*5	54	74	74	147
Brake Working Voltage	24 V_{DC} ±10%			
Brake Power Consumption (at 20°C)[W]	6.1	7.6	7.6	10
Brake Holding Torque [Nt-m (min)] *3	0.3	1.3	1.3	3.8
Brake Release Time [ms (Max)]	20	20	20	40
Brake Pull-In Time [ms (Max)]	35	50	50	80
Derating (%) (with oil seal)	10	10	5	5
Torque Feature (T-N Curve)				
Insulation Class	Class (UL) , Class (CE)			
Insulation Resistance	>100 MΩ , DC 500 V			
Insulation Strength	1.8k V_{AC} , 1 sec			
Vibration Level (μm)	V15			
Operating Temperature	-20°C ~ 60°C*4			
Storage Temperature	-20°C ~ 80°C			
Storage & Operation Humidity	20 ~ 90% RH (non-condensing)			
Vibration Capacity	2.5 G			
IP Rating	IP67 (when using waterproof connections and when an oil seal is fitted to the rotating shaft (for an oil seal model))			
Certifications				

Notes:
1. In the servo motor model name, ② represents the encoder type.
2. The rated torque is the continuous permissible torque between 0 to 40ºC operating temperature which is suitable for the servo motor mounted with the following heat sink dimensions:
   F40, F60, F80: 250 mm x 250 mm x 6 mm
   Material: Aluminum
3. The built-in servo motor brake is only for keeping the object in a stopped state.
   Do not use it for deceleration or as a dynamic brake
4. If the operating temperature is over 40ºC, refer to the power derating curves of E3 motors on page 40.

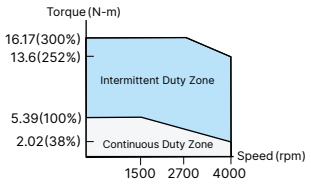
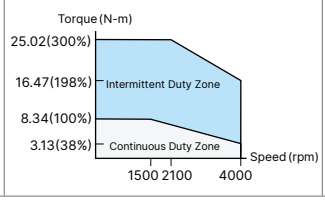
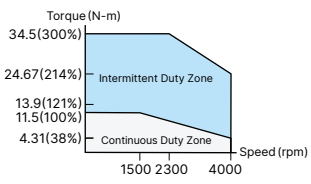
5. Please follow the max. tolerant loading of the motor shaft end listed below during operation



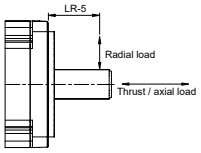
Servo Motor Series Specifications

Servo System ASDA-E3C Series

ECM-E3H High Inertia Series Specifications 220 V

	ECM-E3H-F ☐2 1308	ECM-E3H-F ☐2 1313	ECM-E3H-F ☐2 1318
Rated Power (kW)	0.85	1.3	1.8
Rated Torque (N-m)*2	5.39	8.34	11.5
Maximum Torque (N-m)	16.17	25.02	34.5
Rated Speed (rpm)	1,500		
Maximum Speed (rpm)	4,000		
Rated Current (Arms)	6.65	7.70	11.5
Max. Instantaneous Current (Arms)	20.0	23.9	36.1
Rated Power Rate (kW/s)	23.4	38.6	58.5
Rated Power Rate (kW/s) with brake	23.0	38.3	58.0
Rotor Inertia ($\times 10^{-4}$kg.m^2)	12.44	18.00	22.60
Rotor Inertia ($\times 10^{-4}$kg.m^2) with brake	12.62	18.14	22.80
Mechanical Time Constant (ms)	2.48	1.98	1.70
Mechanical Time Constant (ms) with brake	2.52	1.99	1.71
Torque Constant-KT (N-m/A)	0.811	1.08	1.00
Voltage Constant-KE (mV/(rpm))	29.8	38.8	35.3
Armature Resistance (Ohm)	0.460	0.440	0.253
Armature Inductance (mH)	2.50	2.76	1.70
Electrical Time Constant (ms)	5.43	6.27	6.72
Weight – without brake (kg)	6.0	7.0	8.0
Weight – with brake (kg)	7.5	8.5	9.5
Max. Radial Loading (N)*5	490	686	980
Max. Axial Loading (N)*5	98	343	392
Brake Working Voltage	24 V_{DC} ±10%		
Brake Power Consumption (at 20°C) [W]	24	24	24
Brake Holding Torque [Nt-m (min)] *3	16	16	16
Brake Release Time [ms (Max)]	60	60	60
Brake Pull-In Time [ms (Max)]	120	120	120
Derating (%) (with oil seal)	5	5	5
Torque Feature (T-N Curve)			
Insulation Class	Class (UL) , Class (CE)		
Insulation Resistance	> 100 MΩ , DC 500 V		
Insulation Strength	1.8 k V_{AC} , 1 sec		
Vibration Level (μm)	V15		
Operating Temperature	-20°C ~ 60°C*4		
Storage Temperature	-20°C ~ 80°C		
Storage & Operation Humidity	20 ~ 90% RH (non-condensing)		
Vibration Capacity	2.5 G		
IP Rating	IP67		
Certifications			

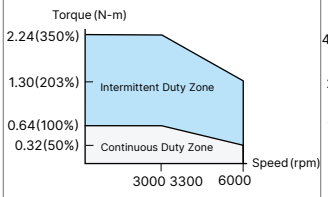
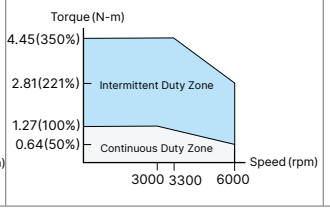
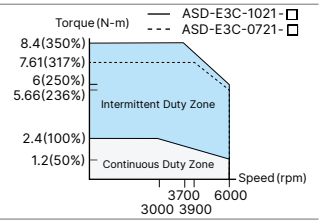
Notes:
1. In the servo motor model name, ☐2 represents the encoder type.
2. The rated torque is the continuous permissible torque between 0 to 40ºC operating temperature which is suitable for the servo motor mounted with the following heat sink dimensions:
   F130 x 400 mm x 400 mm x 20 mm
   Material: Aluminum
3. The built-in servo motor brake is only for keeping the object in a stopped state.
   Do not use it for deceleration or as a dynamic brake
4. If the operating temperature is over 40ºC, refer to the power derating curves of E3 motors on page 40.
5. Please follow the max. tolerant loading of the motor shaft end listed below during operation



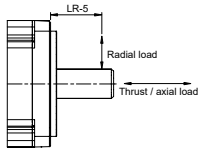
Servo Motor Series Specifications

Servo System ASDA-E3C Series

ECM-E3M Medium Inertia Series Specifications 220 V

	ECM-E3M-C ☐ 0602	ECM-E3M-C ☐ 0604	ECM-E3M-C ☐ 0807
Rated Power (kW)	0.2	0.4	0.75
Rated Torque (N-m)*2	0.64	1.27	2.4
Maximum Torque (N-m)	2.24	4.45	8.4
Rated Speed (rpm)	3,000		
Maximum Speed (rpm)	6,000		
Rated Current (Arms)	1.42	2.40	4.27
Max. Instantaneous Current (Arms)	6.62	9.47	15.8
Rated Power Rate (kW/s)	29.05	63.50	53.83
Rated Power Rate (kW/s) with brake	27.13	61.09	50.97
Rotor Inertia ($\times 10^{-4}$kg.m^2)	0.141	0.254	1.07
Rotor Inertia ($\times 10^{-4}$kg.m^2) with brake	0.151	0.264	1.13
Mechanical Time Constant (ms)	0.91	0.52	0.54
Mechanical Time Constant (ms) with brake	0.97	0.54	0.57
Torque Constant-KT (N-m/A)	0.45	0.53	0.56
Voltage Constant-KE (m V/(rpm))	16.96	19.76	20.17
Armature Resistance (Ohm)	4.71	2.04	0.55
Armature Inductance (mH)	12.18	6.50	2.81
Electrical Time Constant (ms)	2.59	3.19	5.11
Weight – without brake (kg)	0.9	1.2	2.34
Weight – with brake (kg)	1.3	1.6	3.15
Max. Radial Loading (N)*5	245	245	392
Max. Axial Loading (N)*5	74	74	147
Brake Working Voltage	24 V_{DC} ±10%		24 V_{DC} ±10%
Brake Power Consumption (at 20°C) [W]	7.6	7.6	8.5
Brake Holding Torque [Nt-m (min)] *3	1.3	1.3	3.2
Brake Release Time [ms (Max)]	20	20	40
Brake Pull-In Time [ms (Max)]	50	50	60
Derating (%) (with oil seal)	10	5	5
Torque Feature (T-N Curve)			
Insulation Class	Class (UL) , Class (CE)		
Insulation Resistance	> 100 MΩ , DC 500 V		
Insulation Strength	1.8 k V_{AC} , 1 sec		
Vibration Level (μm)	V15		
Operating Temperature	-20°C ~ 60°C*4		
Storage Temperature	-20°C ~ 80°C		
Storage & Operation Humidity	20 ~ 90% RH (non-condensing)		
Vibration Capacity	2.5 G		
IP Rating	IP67 (when using waterproof connections and when an oil seal is fitted to the rotating shaft (for an oil seal model))		
Certifications			

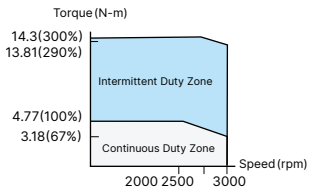
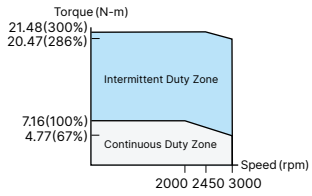
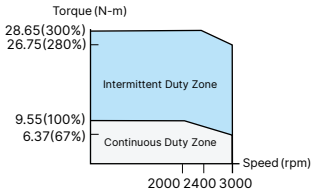
Notes:
1. In the servo motor model name, ☐ represents the encoder type.
2. The rated torque is the continuous permissible torque between 0 to 40ºC operating temperature which is suitable for the servo motor mounted with the following heat sink dimensions:
   F60, F80: 250 mm x 250 mm x 6 mm
   Material: Aluminum
3. The built-in servo motor brake is only for keeping the object in a stopped state.
   Do not use it for deceleration or as a dynamic brake
4. If the operating temperature is over 40ºC, refer to the power derating curves of E3 motors on page 40.
5. Please follow the max. tolerant loading of the motor shaft end listed below during operation



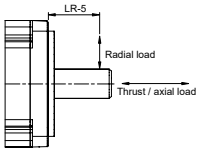
Servo Motor Series Specifications

Servo System ASDA-E3C Series

ECM-E3M Medium Inertia Series Specifications 220 V

	ECM-E3M-E ② 1310	ECM-E3M-E ② 1315	ECM-E3M-E ② 1320
Rated Power (kW)	1	1.5	2
Rated Torque (N-m)*2	4.77	7.16	9.55
Maximum Torque (N-m)	14.3	21.48	28.65
Rated Speed (rpm)	2,000		
Maximum Speed (rpm)	3,000		
Rated Current (Arms)	5.96	8.17	10.59
Max. Instantaneous Current (Arms)	19.9	26.82	34.20
Rated Power Rate (kW/s)	29.21	45.69	62.25
Rated Power Rate (kW/s) with brake	28.66	45.09	61.62
Rotor Inertia ($\times 10^{-4}$kg.m^2)	7.79	11.22	14.65
Rotor Inertia ($\times 10^{-4}$kg.m^2) with brake	7.94	11.37	14.8
Mechanical Time Constant (ms)	1.46	1.10	1.03
Mechanical Time Constant (ms) with brake	1.49	1.12	1.04
Torque Constant-KT (N-m/A)	0.80	0.88	0.90
Voltage Constant-KE (mV/(rpm))	29.30	31.69	32.70
Armature Resistance (Ohm)	0.419	0.26	0.198
Armature Inductance (mH)	4	2.81	2.18
Electrical Time Constant (ms)	9.55	10.81	11.01
Weight – without brake (kg)	4.9	6.0	7.0
Weight – with brake (kg)	6.3	7.4	8.5
Max. Radial Loading (N)*5	490	686	980
Max. Axial Loading (N)*5	98	343	392
Brake Working Voltage	24 V_{DC} ±10%		
Brake Power Consumption (at 20°C)[W]	21.5	21.5	21.5
Brake Holding Torque [Nt-m (min)] *3	10	10	10
Brake Release Time [ms (Max)]	50	50	50
Brake Pull-In Time [ms (Max)]	110	110	110
Derating (%) (with oil seal)	5	5	5
Torque Feature (T-N Curve)			
Insulation Class	Class (UL) , Class (CE)		
Insulation Resistance	>100 MΩ , DC 500 V		
Insulation Strength	1.8 k V_{AC} , 1 sec		
Vibration Level (μm)	V15		
Operating Temperature	-20°C ~ 60°C*4		
Storage Temperature	-20°C ~ 80°C		
Storage & Operation Humidity	20 ~ 90% RH (non-condensing)		
Vibration Capacity	2.5 G		
IP Rating	IP67		
Certifications			

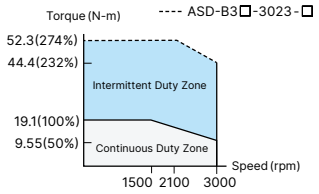
Notes:
1. In the servo motor model name, ② represents the encoder type.
2. The rated torque is the continuous permissible torque between 0 to 40ºC operating temperature which is suitable for the servo motor mounted with the following heat sink dimensions:
   F130: 400 mm x 400 mm x 20 mm
   Material: Aluminum
3. The built-in servo motor brake is only for keeping the object in a stopped state.
   Do not use it for deceleration or as a dynamic brake
4. If the operating temperature is over 40ºC, refer to the power derating curves of E3 motors on page 40.
5. Please follow the max. tolerant loading of the motor shaft end listed below during operation



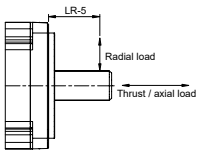
Servo Motor Series Specifications

Servo System ASDA-E3C Series

ECM-E3M Medium Inertia Series Specifications 220V

	ECM-E3M-F ☐ 1830
Rated Power (kW)	3
Rated Torque (N-m)*2	19.1
Maximum Torque (N-m)	57.29
Rated Speed (rpm)	1,500
Maximum Speed (rpm)	3,000
Rated Current (Arms)	18.21
Max. Instantaneous Current (Arms)	58.9
Rated Power Rate (kW/s)	68.02
Rated Power Rate (kW/s) with brake	66.45
Rotor Inertia ($\times 10^{-4}$kg.m^2)	53.63
Rotor Inertia ($\times 10^{-4}$kg.m^2) with brake	54.9
Mechanical Time Constant (ms)	1.21
Mechanical Time Constant (ms) with brake	1.24
Torque Constant-KT (N-m/A)	1.05
Voltage Constant-KE (mV/(rpm))	37.9
Armature Resistance (Ohm)	0.086
Armature Inductance (mH)	1.52
Electrical Time Constant (ms)	17.67
Weight – without brake (kg)	13.9
Weight – with brake (kg)	17.6
Max. Radial Loading (N)*5	1470
Max. Axial Loading (N)*5	490
Brake Working Voltage	24 V_{DC} ± 10%
Brake Power Consumption (at 20°C) [W]	31
Brake Holding Torque [Nt-m (min)] *3	25
Brake Release Time [ms (Max)]	40
Brake Pull-In Time [ms (Max)]	120
Derating (%) (with oil seal)	5
Torque Feature (T-N Curve)	
Insulation Class	Class (UL) , Class (CE)
Insulation Resistance	>100 MΩ , DC 500 V
Insulation Strength	1.8 k V_{AC} , 1 sec
Vibration Level (μm)	V15
Operating Temperature	-20°C ~ 60°C*4
Storage Temperature	-20°C ~ 80°C
Storage & Operation Humidity	20 ~ 90% RH (non-condensing)
Vibration Capacity	2.5 G
IP Rating	IP67
Certifications	

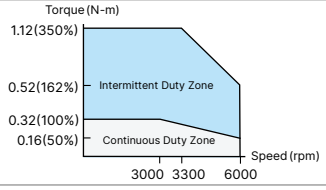
Notes:
1. In the servo motor model name, ☐ represents the encoder type.
2. The rated torque is the continuous permissible torque between 0 to 40°C operating temperature which is suitable for the servo motor mounted with the following heat sink dimensions.
   F180: 550 mm x 550 mm x 30 mm
   Material: Aluminum
3. The built-in servo motor brake is only for keeping the object in a stopped state.
   Do not use it for deceleration or as a dynamic brake
4. If the operating temperature is over 40°C, refer to the power derating curves of E3 motors on page 40.
5. Please follow the max. tolerant loading of the motor shaft end listed below during operation



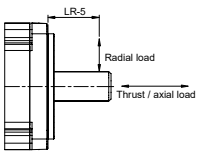
Servo Motor Series Specifications

Servo System ASDA-E3C Series

ECM-E3L Low Inertia Series Specifications 220 V

	ECM-E3L-C ② 0401
Rated Power (kW)	0.1
Rated Torque (N-m)*2	0.32
Maximum Torque (N-m)	1.12
Rated Speed (rpm)	3,000
Maximum Speed (rpm)	6,000
Rated Current (Arms)	0.857
Max. Instantaneous Current (Arms)	3.44
Rated Power Rate (kW/s)	34.25
Rated Power Rate (kW/s) with brake	32.51
Rotor Inertia ($\times 10^{-4}$kg.m^2)	0.0299
Rotor Inertia ($\times 10^{-4}$kg.m^2) with brake	0.0315
Mechanical Time Constant (ms)	0.50
Mechanical Time Constant (ms) with brake	0.53
Torque Constant-KT (N-m/A)	0.374
Voltage Constant-KE (mV/(rpm))	13.8
Armature Resistance (Ohm)	8.22
Armature Inductance (mH)	19.1
Electrical Time Constant (ms)	2.32
Weight – without brake (kg)	0.5
Weight – with brake (kg)	0.7
Max. Radial Loading (N)*5	78
Max. Axial Loading (N)*5	54
Brake Working Voltage	24 V_{DC} ± 10%
Brake Power Consumption (at 20°C)[W]	6.1
Brake Holding Torque [Nt-m (min)] *3	0.3
Brake Release Time [ms (Max)]	20
Brake Pull-In Time [ms (Max)]	35
Derating (%) (with oil seal)	10
Torque Feature (T-N Curve)	
Insulation Class	Class (UL) , Class (CE)
Insulation Resistance	>100 MΩ , DC 500 V
Insulation Strength	1.8 k V_{AC} , 1 sec
Vibration Level (μm)	V15
Operating Temperature	-20°C ~ 60°C*4
Storage Temperature	-20°C ~ 80°C
Storage & Operation Humidity	20 ~ 90% RH (non-condensing)
Vibration Capacity	2.5 G
IP Rating	IP67 (when using waterproof connections and when an oil seal is fitted to the rotating shaft (for an oil seal model))
Certifications	

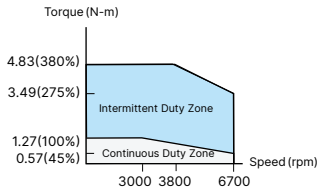
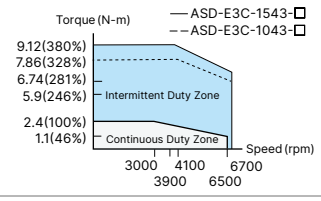
Notes:
1. In the servo motor model name, ② represents the encoder type.
2. The rated torque is the continuous permissible torque between 0 to 40ºC operating temperature which is suitable for the servo motor mounted with the following heat sink dimensions.
   F40: 250 mm x 250 mm x 6 mm
   Material: Aluminum
3. The built-in servo motor brake is only for keeping the object in a stopped state. Do not use it for deceleration or as a dynamic brake
4. If the operating temperature is over 40ºC, refer to the power derating curves of E3 motors on page 40.
5. Please follow the max. tolerant loading of the motor shaft end listed below during operation



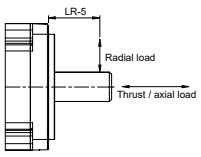
Servo Motor Series Specifications

Servo System ASDA-E3C Series

ECM-E3H High Inertia Series Specifications 400 V

	ECM-E3H- J ② 0604	ECM-E3H- J ② 0807
Rated Power (kW)	0.4	0.75
Rated Torque (N-m)*2	1.27	2.4
Maximum Torque (N-m)	4.83	9.12
Rated Speed (rpm)	3,000	
Maximum Speed (rpm)	6,700	
Rated Current (Arms)	1.41	2.10
Max. Instantaneous Current (Arms)	5.38	8.15
Rated Power Rate (kW/s)	30.8	37.2
Rated Power Rate (kW/s) with brake	30.0	35.6
Rotor Inertia ($\times 10^{-4}$kg.m^2)	0.523	1.55
Rotor Inertia ($\times 10^{-4}$kg.m^2) with brake	0.538	1.62
Mechanical Time Constant (ms)	1.28	0.828
Mechanical Time Constant (ms) with brake	1.31	0.866
Torque Constant-KT (N-m/A)	0.901	1.14
Voltage Constant-KE (mV/(rpm))	32.7	40.4
Armature Resistance (Ohm)	6.86	2.35
Armature Inductance (mH)	9.01	6.18
Electrical Time Constant (ms)	1.31	2.63
Weight – without brake (kg)	1.05	2.15
Weight – with brake (kg)	1.6	2.95
Max. Radial Loading (N)*5	245	392
Max. Axial Loading (N)*5	74	147
Brake Working Voltage	24 V_{DC} ±10% V	
Brake Power Consumption (at 20°C) [W]	7.6	10
Brake Holding Torque [Nt-m (min)] *3	1.3	3.8
Brake Release Time [ms (Max)]	20	40
Brake Pull-In Time [ms (Max)]	50	80
Derating (%) (with oil seal)	5	5
Torque Feature (T-N Curve)		
Insulation Class	Class (UL) , Class (CE)	
Insulation Resistance	>100 MΩ , DC 500 V	
Insulation Strength	2.3 k VAC , 1 sec	
Vibration Level (μm)	V15	
Operating Temperature	-20°C ~ 60°C*4	
Storage Temperature	-20°C ~ 80°C	
Storage & Operation Humidity	20 ~ 90% RH (non-condensing)	
Vibration Capacity	2.5 G	
IP Rating	IP67 (when using waterproof connections and when an oil seal is fitted to the rotating shaft (for an oil seal model))	
Certifications		

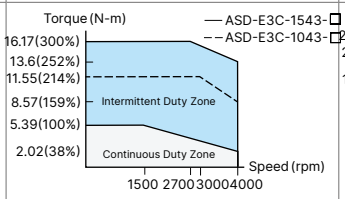
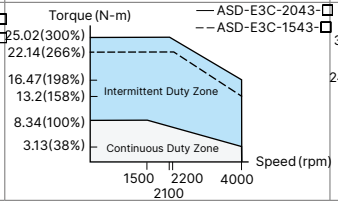
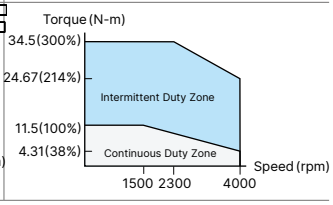
Notes:
1. In the servo motor model name, ② represents the encoder type.
2. The rated torque is the continuous permissible torque between 0 to 40°C operating temperature which is suitable for the servo motor mounted with the following heat sink dimensions.
   F60, F80: 250 mm x 250 mm x 6 mm
   Material: Aluminum
3. The built-in servo motor brake is only for keeping the object in a stopped state.
   Do not use it for deceleration or as a dynamic brake
4. If the operating temperature is over 40°C, refer to the power derating curves of E3 motors on page 40.
5. Please follow the max. tolerant loading of the motor shaft end listed below during operation



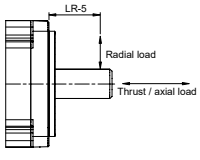
Servo Motor Series Specifications

Servo System ASDA-E3C Series

ECM-E3H High Inertia Series Specifications 400 V

	ECM-E3H-L ☐2 1308	ECM-E3H-L ☐2 1313	ECM-E3H-L ☐2 1318
Rated Power (kW)	0.85	1.3	1.8
Rated Torque (N-m)*2	5.39	8.34	11.5
Maximum Torque (N-m)	16.17	25.02	34.5
Rated Speed (rpm)	1,500		
Maximum Speed (rpm)	4,000		
Rated Current (Arms)	3.35	3.85	5.75
Max. Instantaneous Current (Arms)	10.0	12.0	18.1
Rated Power Rate (kW/s)	23.4	38.6	58.5
Rated Power Rate (kW/s) with brake	23.0	38.3	58.0
Rotor Inertia ($\times 10^{-4}$kg.m^2)	12.44	18.00	22.60
Rotor Inertia ($\times 10^{-4}$kg.m^2) with brake	12.62	18.14	22.80
Mechanical Time Constant (ms)	2.50	1.97	1.69
Mechanical Time Constant (ms) with brake	2.54	1.99	1.71
Torque Constant-KT (N-m/A)	1.61	2.17	2.00
Voltage Constant-KE (mV/(rpm))	59.5	77.6	70.7
Armature Resistance (Ohm)	1.84	1.76	1.01
Armature Inductance (mH)	10.0	11.0	6.80
Electrical Time Constant (ms)	5.43	6.25	6.73
Weight – without brake (kg)	6.0	7.0	8.0
Weight – with brake (kg)	7.5	8.5	9.5
Max. Radial Loading (N)*5	490	686	980
Max. Axial Loading (N)*5	98	343	392
Brake Working Voltage	24 V_{DC} ±10%		
Brake Power Consumption (at 20°C)[W]	24	24	24
Brake Holding Torque [Nt-m (min)] *3	16	16	16
Brake Release Time [ms (Max)]	60	60	60
Brake Pull-In Time [ms (Max)]	120	120	120
Derating (%) (with oil seal)	5	5	5
Torque Feature (T-N Curve)			
Insulation Class	Class (UL) , Class (CE)		
Insulation Resistance	>100 MΩ , DC 500 V		
Insulation Strength	2.3k V_{AC} , 1sec		
Vibration Level (μm)	V15		
Operating Temperature	-20°C ~ 60°C*4		
Storage Temperature	-20°C ~ 80°C		
Storage & Operation Humidity	20 ~ 90% RH (non-condensing)		
Vibration Capacity	2.5 G		
IP Rating	IP67 (when using waterproof connections and when an oil seal is fitted to the rotating shaft (for an oil seal model))		
Certifications			

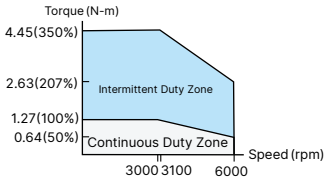
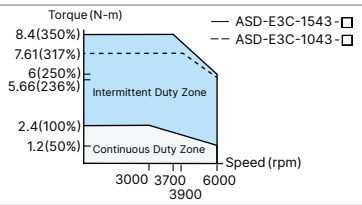
Notes:
1. In the servo motor model name, ☐2 represents the encoder type.
2. The rated torque is the continuous permissible torque between 0 to 40ºC operating temperature which is suitable for the servo motor mounted with the following heat sink dimensions.
   F130: 250 mm x 250 mm x 6 mm
   Material: Aluminum
3. The built-in servo motor brake is only for keeping the object in a stopped state.
   Do not use it for deceleration or as a dynamic brake
4. If the operating temperature is over 40ºC, refer to the power derating curves of E3 motors on page 40.
5. Please follow the max. tolerant loading of the motor shaft end listed below during operation



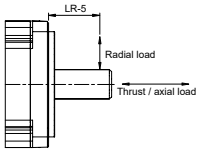
Servo Motor Series Specifications

Servo System ASDA-E3C Series

ECM-E3M Medium Inertia Series Specifications 400 V

	ECM-E3M-J ② 0604	ECM-E3M-J ② 0807
Rated Power (kW)	0.4	0.75
Rated Torque (N-m)*2	1.27	2.4
Maximum Torque (N-m)	4.45	8.4
Rated Speed (rpm)	3,000	
Maximum Speed (rpm)	6,000	
Rated Current (Arms)	1.35	2.15
Max. Instantaneous Current (Arms)	5.20	7.90
Rated Power Rate (kW/s)	63.5	53.83
Rated Power Rate (kW/s) with brake	61.09	50.97
Rotor Inertia ($\times 10^{-4}$kg.m^2)	0.254	1.07
Rotor Inertia ($\times 10^{-4}$kg.m^2) with brake	0.264	1.13
Mechanical Time Constant (ms)	0.53	0.55
Mechanical Time Constant (ms) with brake	0.55	0.58
Torque Constant-KT (N-m/A)	0.94	1.12
Voltage Constant-KE (m V/(rpm))	34.66	40.34
Armature Resistance (Ohm)	6.47	2.20
Armature Inductance (mH)	20.6	11.2
Electrical Time Constant (ms)	3.18	5.09
Weight – without brake (kg)	1.2	2.34
Weight – with brake (kg)	1.6	3.15
Max. Radial Loading (N)*5	245	392
Max. Axial Loading (N)*5	74	147
Brake Working Voltage	24 V_{DC} ±10%	
Brake Power Consumption (at 20°C) [W]	7.6	8.5
Brake Holding Torque [Nt-m (min)] *3	1.3	3.2
Brake Release Time [ms (Max)]	20	40
Brake Pull-In Time [ms (Max)]	50	60
Derating (%) (with oil seal)	5	5
Torque Feature (T-N Curve)		
Insulation Class	Class (UL) , Class (CE)	
Insulation Resistance	>100 MΩ , DC 500 V	
Insulation Strength	2.3 k V_{AC} , 1 sec	
Vibration Level (μm)	V15	
Operating Temperature	-20°C ~ 60°C*4	
Storage Temperature	-20°C ~ 80°C	
Storage & Operation Humidity	20 ~ 90% RH (non-condensing)	
Vibration Capacity	2.5 G	
IP Rating	IP67	
Certifications		

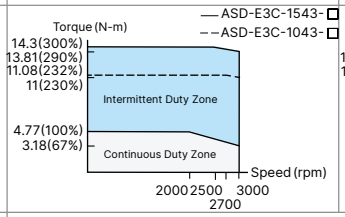
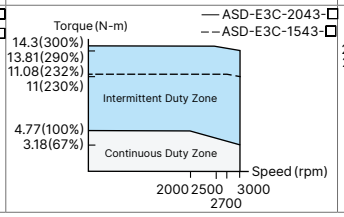
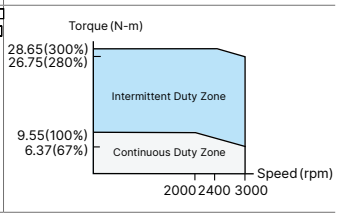
Notes:
1. In the servo motor model name, ② represents the encoder type.
2. The rated torque is the continuous permissible torque between 0 to 40ºC operating temperature which is suitable for the servo motor mounted with the following heat sink dimensions.
   F60, F80: 250 mm x 250 mm x 6 mm
   Material: Aluminum
3. The built-in servo motor brake is only for keeping the object in a stopped state.
   Do not use it for deceleration or as a dynamic brake
4. If the operating temperature is over 40ºC, refer to the power derating curves of E3 motors on page 40.
5. Please follow the max. tolerant loading of the motor shaft end listed below during operation



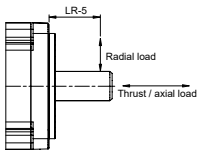
Servo Motor Series Specifications

Servo System ASDA-E3C Series

ECM-E3M Medium Inertia Series Specifications 400 V

	ECM-E3M-K ☐2 1310	ECM-E3M-K ☐2 1315	ECM-E3M-K ☐2 1320
Rated Power (kW)	1	1.5	2
Rated Torque (N-m)*2	4.77	7.16	9.55
Maximum Torque (N-m)	14.3	21.48	28.65
Rated Speed (rpm)	2,000		
Maximum Speed (rpm)	3,000		
Rated Current (Arms)	3.00	4.09	5.30
Max. Instantaneous Current (Arms)	9.95	13.37	17.1
Rated Power Rate (kW/s)	29.21	45.69	62.25
Rated Power Rate (kW/s) with brake	28.66	45.09	61.62
Rotor Inertia ($\times 10^{-4}$kg.m^2)	7.79	11.22	14.65
Rotor Inertia ($\times 10^{-4}$kg.m^2) with brake	7.94	11.37	14.80
Mechanical Time Constant (ms)	1.47	1.10	1.03
Mechanical Time Constant (ms) with brake	1.50	1.12	1.04
Torque Constant-KT (N-m/A)	1.59	1.75	1.80
Voltage Constant-KE (m V/(rpm))	58.60	63.38	65.40
Armature Resistance (Ohm)	1.68	1.04	0.792
Armature Inductance (mH)	16.0	11.2	8.72
Electrical Time Constant (ms)	9.52	10.8	11.0
Weight – without brake (kg)	4.9	6.0	7.0
Weight – with brake (kg)	6.3	7.4	8.5
Max. Radial Loading (N)*5	490	686	980
Max. Axial Loading (N)*5	98	343	392
Brake Working Voltage	24 V_{DC} ±10%		
Brake Power Consumption (at 20°C) [W]	21.5	21.5	21.5
Brake Holding Torque [Nt-m (min)] *3	10	10	10
Brake Release Time [ms (Max)]	50	50	50
Brake Pull-In Time [ms (Max)]	110	110	110
Derating (%) (with oil seal)	5	5	5
Torque Feature (T-N Curve)			
Insulation Class	Class (UL) , Class (CE)		
Insulation Resistance	> 100 MΩ , DC 500 V		
Insulation Strength	2.3 k V_{AC} , 1 sec		
Vibration Level (μm)	V15		
Operating Temperature	-20°C ~ 60°C*4		
Storage Temperature	-20°C ~ 80°C		
Storage & Operation Humidity	20 ~ 90% RH (non-condensing)		
Vibration Capacity	2.5 G		
IP Rating	IP67		
Certifications			

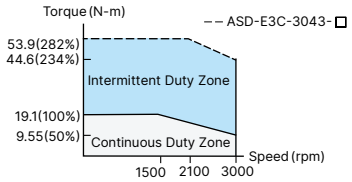
Notes:
1. In the servo motor model name, ☐2 represents the encoder type.
2. The rated torque is the continuous permissible torque between 0 to 40ºC operating temperature which is suitable for the servo motor mounted with the following heat sink dimensions.
   F130: 250 mm x 250 mm x 6 mm
   Material: Aluminum
3. The built-in servo motor brake is only for keeping the object in a stopped state.
   Do not use it for deceleration or as a dynamic brake
4. If the operating temperature is over 40ºC, refer to the power derating curves of E3 motors on page 40.
5. Please follow the max. tolerant loading of the motor shaft end listed below during operation



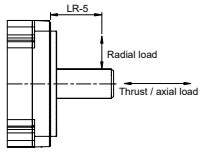
Servo Motor Series Specifications

Servo System ASDA-E3C Series

ECM-E3M Medium Inertia Series Specifications 400 V

	ECM-E3M-L ☐ 1830
Rated Power (kW)	3
Rated Torque (N-m)*2	19.1
Maximum Torque (N-m)	57.29
Rated Speed (rpm)	1,500
Maximum Speed (rpm)	3,000
Rated Current (Arms)	9.1
Max. Instantaneous Current (Arms)	29.45
Rated Power Rate (kW/s)	68.02
Rated Power Rate (kW/s) with brake	66.45
Rotor Inertia ($\times 10^{-4}$kg.m^2)	53.63
Rotor Inertia ($\times 10^{-4}$kg.m^2) with brake	54.9
Mechanical Time Constant (ms)	1.21
Mechanical Time Constant (ms) with brake	1.24
Torque Constant-KT (N-m/A)	2.10
Voltage Constant-KE (m V/(rpm))	75.8
Armature Resistance (Ohm)	0.344
Armature Inductance (mH)	6.08
Electrical Time Constant (ms)	17.67
Weight – without brake (kg)	13.9
Weight – with brake (kg)	17.6
Max. Radial Loading (N)*5	1,470
Max. Axial Loading (N)*5	490
Brake Working Voltage	24 V_{DC} ± 10%
Brake Power Consumption (at 20˚C) [W]	31
Brake Holding Torque [Nt-m (min)] *3	25
Brake Release Time [ms (Max)]	30
Brake Pull-In Time [ms (Max)]	120
Derating (%) (with oil seal)	5
Torque Feature (T-N Curve)	
Insulation Class	Class (UL) , Class (CE)
Insulation Resistance	> 100 MΩ , DC 500 V
Insulation Strength	2.3 k V_{AC} , 1 sec
Vibration Level (μm)	V15
Operating Temperature	-20˚C ~ 60˚C*4
Storage Temperature	-20˚C ~ 80˚C
Storage & Operation Humidity	20 ~ 90% RH (non-condensing)
Vibration Capacity	2.5 G
IP Rating	IP67
Certifications	

Notes:
1. In the servo motor model name, ☐ represents the encoder type.
2. The rated torque is the continuous permissible torque between 0 to 40ºC operating temperature which is suitable for the servo motor mounted with the following heat sink dimensions.
   F180: 250 mm x 250 mm x 6 mm
   Material: Aluminum
3. The built-in servo motor brake is only for keeping the object in a stopped state. Do not use it for deceleration or as a dynamic brake
4. If the operating temperature is over 40ºC, refer to the power derating curves of E3 motors on page 40.
5. Please follow the max. tolerant loading of the motor shaft end listed below during operation

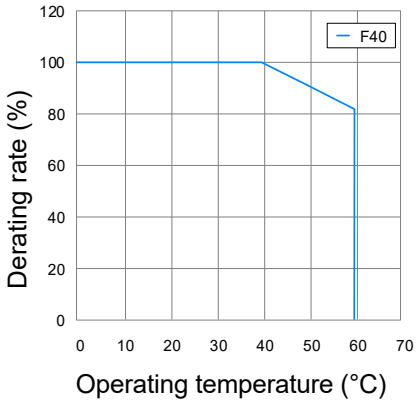


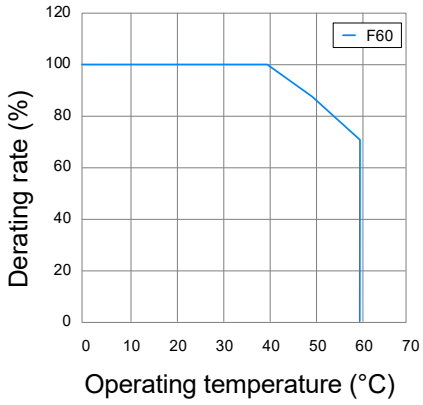
Servo Motor Series Specifications

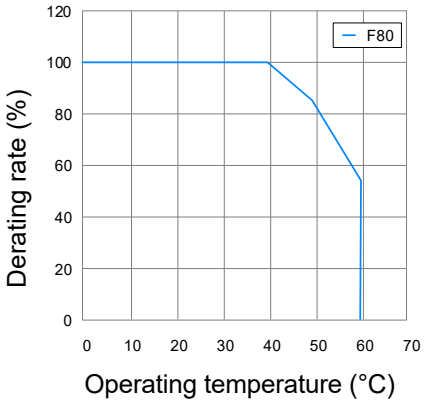
Servo System ASDA-E3C Series

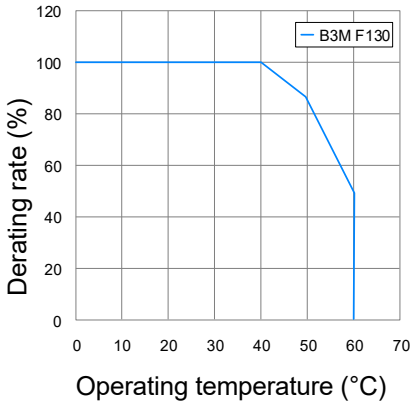
ECM-E3 Series Servo Motor Specifications

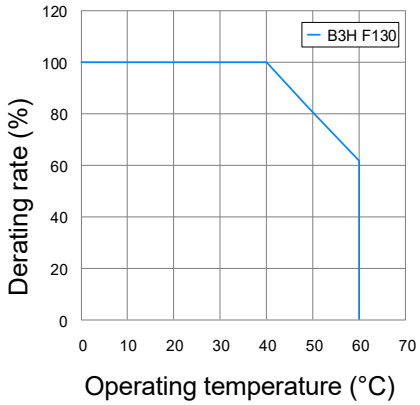
Power Derating Curves

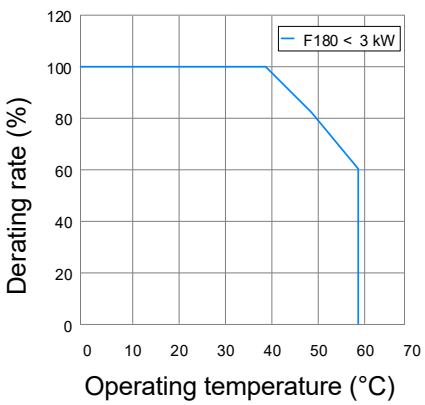












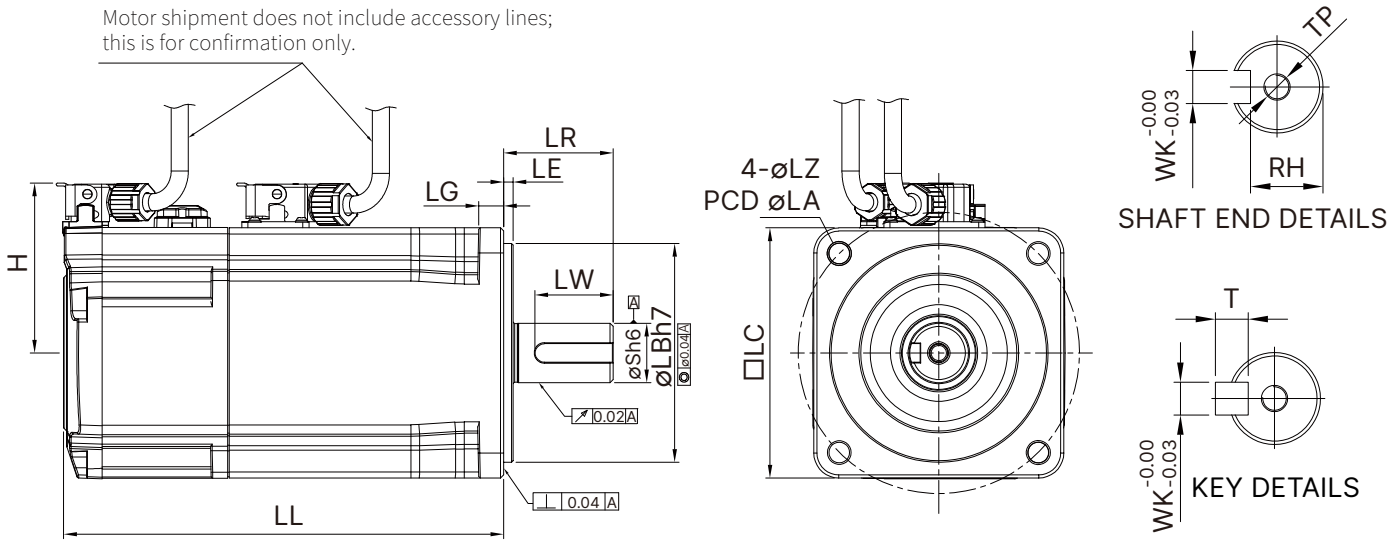
Note: Applicable for 220V and 400V models.

Servo Motor Series Specifications

Servo System ASDA-E3C Series

ECM-E3 Built-In Series Servo Motor Specifications

220 V / 400 V Dimensions of Motors with Frame Size of 80 mm or Below



200 V	E3L-C*0401	E3H-C*0401	E3H-C*0602	E3M-C*0602	E3G-C*0604	E3H-C*0604	E3M-C*0604
400 V						E3H-J*0604	E3M-J*0604
LC	40	40	60	60	60	60	60
LZ	4.5	4.5	5.5	5.5	5.5	5.5	5.5
LA	46	46	70	70	70	70	70
S	8($^{+0}_{-0.009}$)	8($^{+0}_{-0.009}$)	14($^{+0}_{-0.011}$)	14($^{+0}_{-0.011}$)	14($^{+0}_{-0.011}$)	14($^{+0}_{-0.011}$)	14($^{+0}_{-0.013}$)
LB	30($^{+0}_{-0.021}$)	30($^{+0}_{-0.021}$)	50($^{+0}_{-0.025}$)	50($^{+0}_{-0.025}$)	50($^{+0}_{-0.025}$)	50($^{+0}_{-0.025}$)	50($^{+0}_{-0.030}$)
LL (w/o brake)	76.2	76.2	69.6	72.5	118.1	87.45	91
LL (with brake)	107.7	107.7	101.5	104.4	150.0	119.35	122.9
H	34	34	44	44	44	44	44
LR	25	25	30	30	30	30	30
LE	2.5	2.5	3	3	3	3	3
LG	5	5	7.5	7.5	34.6	7.5	7.5
LW	16	16	20	20	20	20	20
RH	6.2	6.2	11	11	11	11	11
WK	3	3	5	5	5	5	5
W	3	3	5	5	5	5	5
T	3	3	5	5	5	5	5
TP	M3 Depth 8	M3 Depth 8	M4 Depth 15	M4 Depth 15	M4 Depth 15	M4 Depth 15	M4 Depth 15

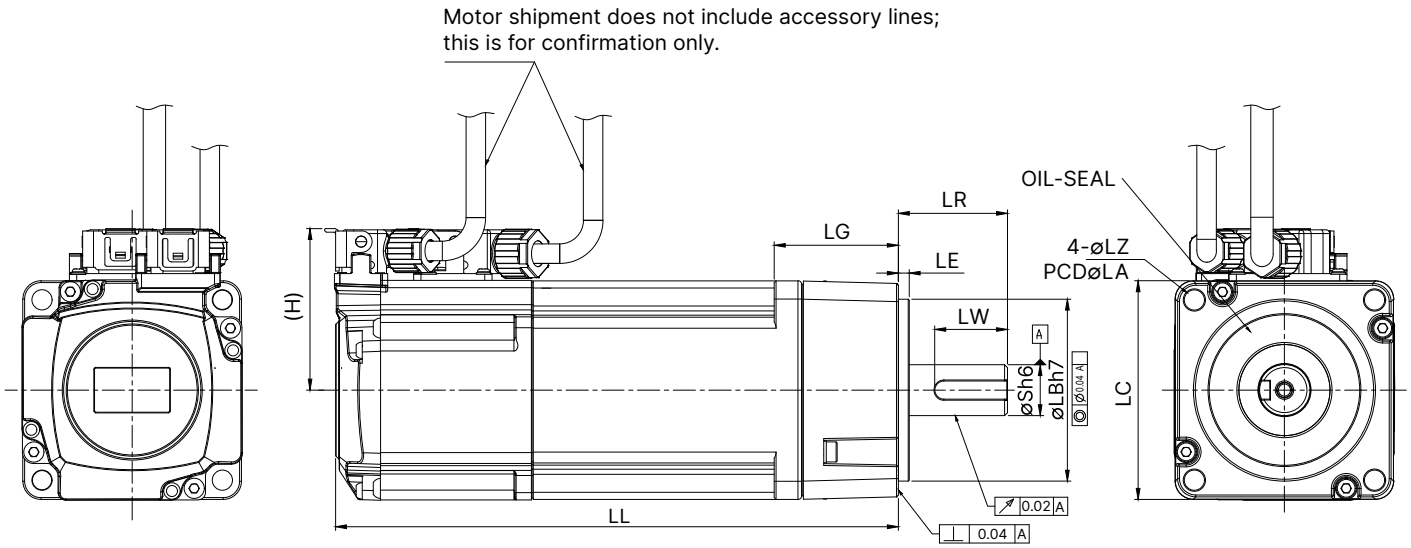
Note: 1. Servo motor model name: ② = encoder type

Servo Motor Series Specifications

Servo System ASDA-E3C Series

ECM-E3 Built-In Series Servo Motor Specifications

220 V / 400 V Dimensions of Motors with Frame Size of 80 mm or Below



200 V	E3G-C*0807	E3H-C*0807	E3M-C*0807
400 V		E3H-J*0807	E3M-J*0807
LC	80	80	80
LZ	6.6	6.6	6.6
LA	90	90	90
S	19($^{+0}_{-0.013}$)	19($^{+0}_{-0.013}$)	19($^{+0}_{-0.013}$)
LB	70($^{+0}_{-0.030}$)	70($^{+0}_{-0.030}$)	70($^{+0}_{-0.030}$)
LL (w/o brake)	127.7	95.4	105.2
LL (with brake)	163.3	131	140.8
H	54	54	54
LR	35	35	35
LE	3	3	3
LG	30.5	8	8
LW	25	25	25
RH	15.5	15.5	15.5
WK	6	6	6
W	6	6	6
T	6	6	6
TP	M6 Depth 20	M4 Depth 20	M4 Depth 20

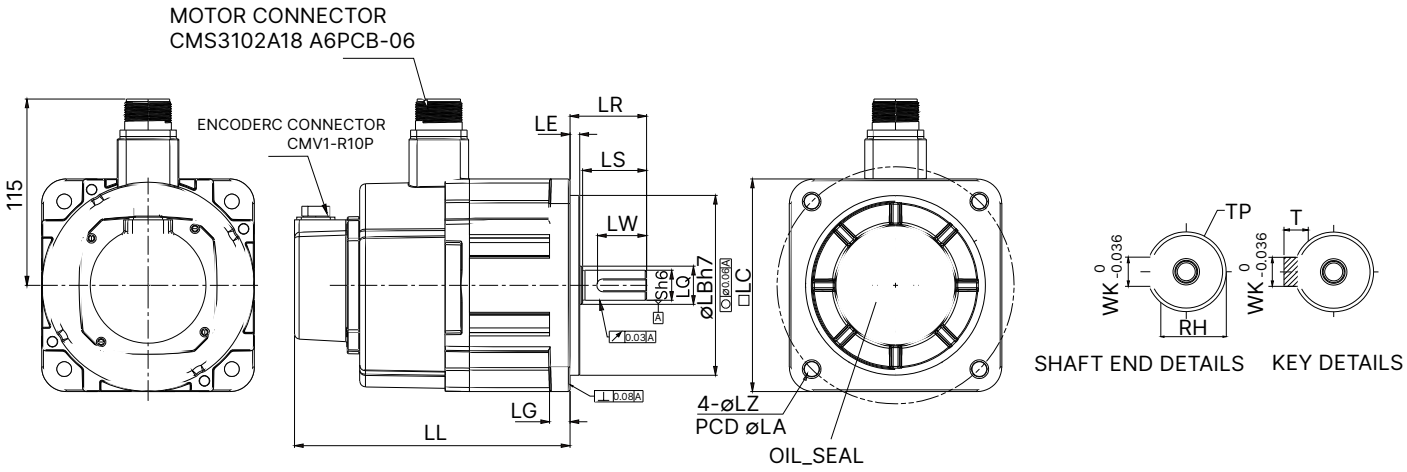
Note: 1. Servo motor model name: ② = encoder type

Servo Motor Series Specifications

Servo System ASDA-E3C Series

Servo Motor ECM-E3 Series Specifications

220 V / 400 V Dimensions of Motors with Frame Size of 130 mm or Below



200 V	E3M-E*1310	E3M-E*1315	E3M-E*1320	E3H-F*1308	E3H-F*1313	E3H-F*1318
400 V	E3M-K*1310	E3M-K*1315	E3M-K*1320	E3H-L*1308	E3H-L*1313	E3H-L*1318
LC	130	130	130	130	130	130
LZ	9	9	9	9	9	9
LA	145	145	145	145	145	145
S	22($^{+0}_{-0.013}$)	22($^{+0}_{-0.013}$)	22($^{+0}_{-0.013}$)	22($^{+0}_{-0.013}$)	22($^{+0}_{-0.013}$)	22($^{+0}_{-0.013}$)
LB	110($^{+0}_{-0.035}$)	110($^{+0}_{-0.035}$)	110($^{+0}_{-0.035}$)	110($^{+0}_{-0.035}$)	110($^{+0}_{-0.035}$)	110($^{+0}_{-0.035}$)
LL (w/o brake)	127.9	139.9	151.9	127.9	139.9	151.9
LL (with brake)	168.5	180.5	192.5	168.5	180.5	192.5
H	115	115	115	115	115	115
LS	47	47	47	47	47	47
LR	55	55	55	55	55	55
LQ	28	28	28	28	28	28
LE	6	6	6	6	6	6
LG	12.5	12.5	12.5	12.5	12.5	12.5
LW	36	36	36	36	36	36
RH	18	18	18	18	18	18
WK	8	8	8	8	8	8
W	8	8	8	8	8	8
T	7	7	7	7	7	7
TP	M6 Depth 12	M6 Depth 12	M6 Depth 12	M6 Depth 12	M6 Depth 12	M6 Depth 12

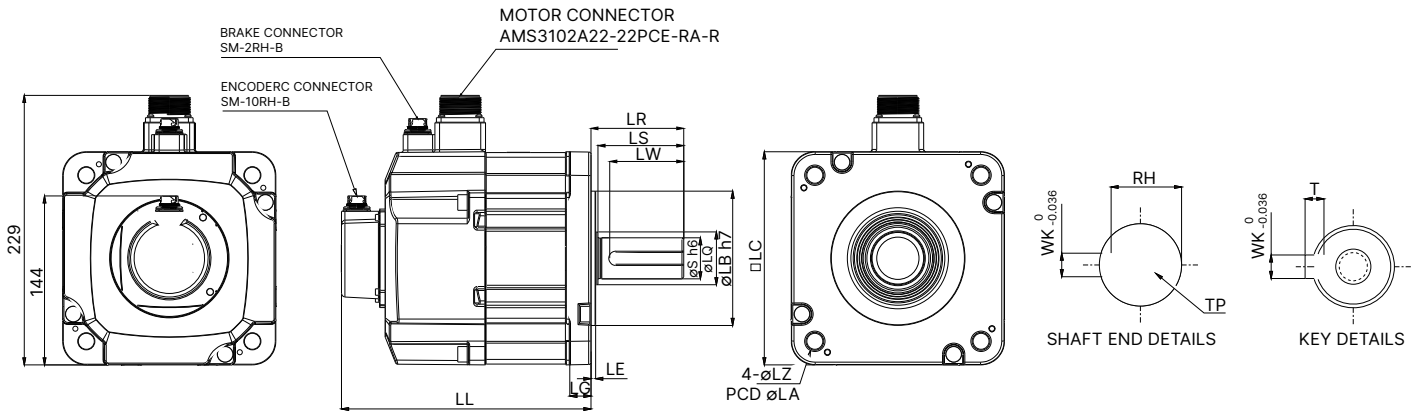
Note: 1. Servo motor model name: ② = encoder type

Servo Motor Series Specifications

Servo System ASDA-E3C Series

Servo Motor ECM-E3 Series Specifications

220 V / 400 V Dimensions of Motors with Frame Size of 180 mm or Below



200 V	E3M-F*1830
400 V	E3M-L*1830
LC	180
LZ	13.5
LA	200
S	35($^{+0}_{-0.016}$)
LB	114.3($^{+0}_{-0.035}$)
LL (w/o brake)	160.5
LL (with brake)	212.5
H	139
LS	73
LR	79
LQ	45
LE	4
LG	18
LW	63
RH	30
WK	10
W	10
T	8
TP	M12 Depth 25

Note: 1. Servo motor model name: ② = encoder type

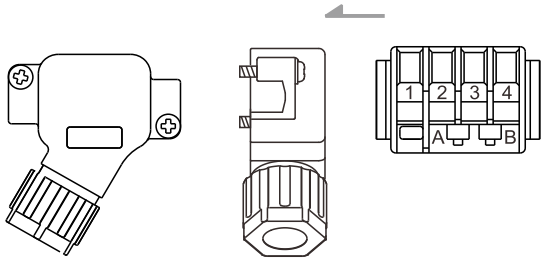
Ordering Information

Servo System ASDA-E3C Series

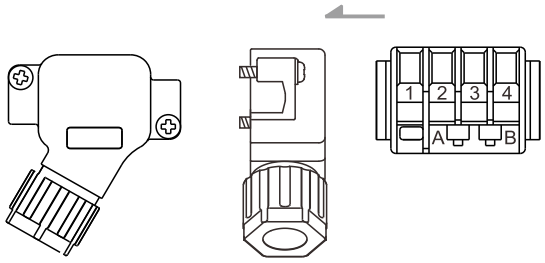
Accessories

Power Connectors

ACS3-AFPWSS00
With or w/o brake
Cable exit direction towards motor shaft

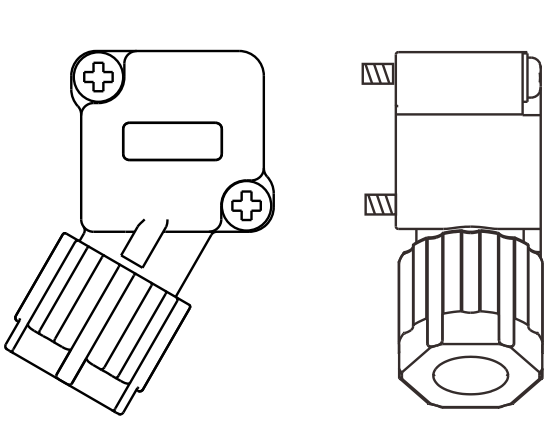


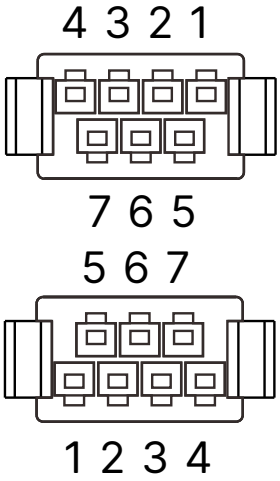
ACS3-ABPWSS00
With or w/o brake
Cable exit direction towards encoder



Encoder Connectors

ACS3-AFEASA00





Cable exit direction towards motor shaft

Cable exit direction towards encoder

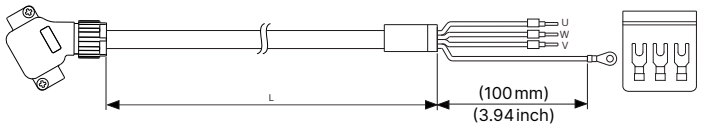
Ordering Information

Servo System ASDA-E3C Series

Accessories

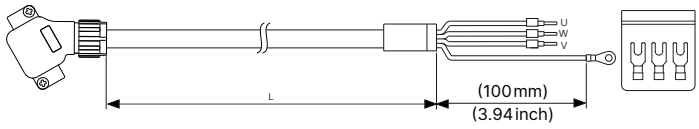
Power Connectors

Without brake - Cable exit direction towards motor shaft



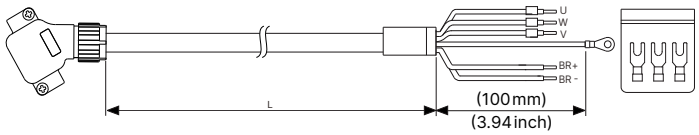
Cable	Model Name	UVW AWG (mm²)	L mm	L inch
Standard	ACS3-AFPWSR030	20 (0.5)	3,000 ± 50	118 ± 2
	ACS3-AFPWSR050	20 (0.5)	5,000 ± 50	197 ± 2
	ACS3-AFPWSR101	20 (0.5)	10,000 ± 50	394 ± 4
	ACS3-AFPWSR202	20 (0.5)	20,000 ± 50	787 ± 4
Torsion-Resistant	ACS3-AFPRSR030	20 (0.5)	3,000 ± 50	118 ± 2
	ACS3-AFPRSR05	20 (0.5)	5,000 ± 50	197 ± 2
	ACS3-AFPRSR10	20 (0.5)	10,000 ± 50	394 ± 4
	ACS3-AFPRSR20	20 (0.5)	20,000 ± 50	787 ± 4

Without brake - Cable exit direction towards encoder



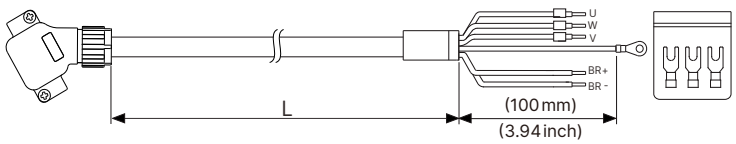
Cable	Model Name	UVW AWG (mm²)	L mm	L inch
Standard	ACS3-ABPWSR03	20 (0.5)	3,000 ± 50	118 ± 2
	ACS3-ABPWSR05	20 (0.5)	5,000 ± 50	197 ± 2
	ACS3-ABPWSR10	20 (0.5)	10,000 ± 50	394 ± 4
	ACS3-ABPWSR20	20 (0.5)	20,000 ± 50	787 ± 4
Torsion-Resistant	ACS3-ABPRSR03	20 (0.5)	3,000 ± 50	118 ± 2
	ACS3-ABPRSR05	20 (0.5)	5,000 ± 50	197 ± 2
	ACS3-ABPRSR10	20 (0.5)	10,000 ± 50	394 ± 4
	ACS3-ABPRSR20	20 (0.5)	20,000 ± 50	787 ± 4

With brake - Cable exit direction towards motor shaft



Cable	Model Name	UVW AWG (mm²)	L mm	L inch
Standard	ACS3-AFPWSS03	20 (0.5)	3,000 ± 50	118 ± 2
	ACS3-AFPWSS05	20 (0.5)	5,000 ± 50	197 ± 2
	ACS3-AFPWSS10	20 (0.5)	10,000 ± 50	394 ± 4
	ACS3-AFPWSS202	20 (0.5)	20,000 ± 50	787 ± 4
Torsion-Resistant	ACS3-AFPRSS030	20 (0.5)	3,000 ± 50	118 ± 2
	ACS3-AFPRSS05	20 (0.5)	5,000 ± 50	197 ± 2
	ACS3-AFPRSS10	20 (0.5)	10,000 ± 50	394 ± 4
	ACS3-AFPRSS20	20 (0.5)	20,000 ± 50	787 ± 4

With brake - Cable exit direction towards encoder



Cable	Model Name	UVW AWG (mm²)	L mm	L inch
Standard	ACS3-ABPWSS03	20 (0.5)	3,000 ± 50	118 ± 2
	ACS3-ABPWSS05	20 (0.5)	5,000 ± 50	197 ± 2
	ACS3-ABPWSS10	20 (0.5)	10,000 ± 50	394 ± 4
	ACS3-ABPWSS20	20 (0.5)	20,000 ± 50	787 ± 4
Torsion-Resistant	ACS3-ABPRSS03	20 (0.5)	3,000 ± 50	118 ± 2
	ACS3-ABPRSS05	20 (0.5)	5,000 ± 50	197 ± 2
	ACS3-ABPRSS10	20 (0.5)	10,000 ± 50	394 ± 4
	ACS3-ABPRSS20	20 (0.5)	20,000 ± 50	787 ± 4

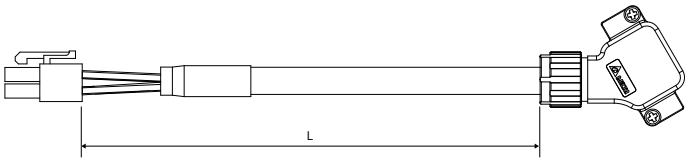
Ordering Information

Servo System ASDA-E3C Series

Accessories

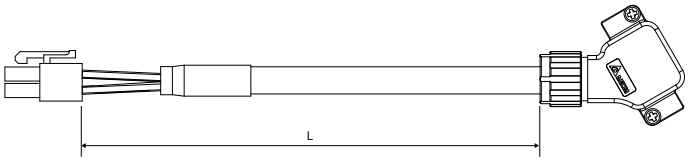
Power Adapter Cable w/o Brake

Cable exit direction towards motor shaft



Cable	Model Name	UVW AWG (mm²)	L mm	L inch
Standard	ACS3-AFPWSR0C	20 (0.5)	300 ± 30	11.8 ± 1.18
	ACS3-AFPWSR0E	20 (0.5)	500 ± 30	19.7 ± 1.18
	ACS3-AFPWSR0G	20 (0.5)	700 ± 30	27.5 ± 1.18
	ACS3-AFPWSR0J	20 (0.5)	900 ± 30	35.4 ± 1.18
Torsion-Resistant	ACS3-AFPRSR0C	20 (0.5)	300 ± 30	11.8 ± 1.18
	ACS3-AFPRSR0E	20 (0.5)	500 ± 30	19.7 ± 1.18
	ACS3-AFPRSR0G	20 (0.5)	700 ± 30	27.5 ± 1.18
	ACS3-AFPRSR0J	20 (0.5)	900 ± 30	35.4 ± 1.18

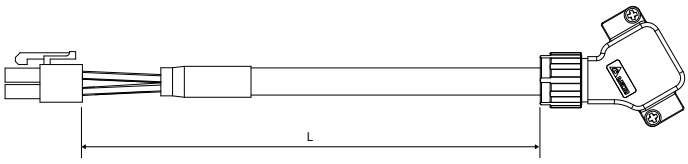
Cable exit direction towards encoder



Cable	Model Name	UVW AWG (mm²)	L mm	L inch
Standard	ACS3-ABPWSR0C	20 (0.5)	300 ± 30	11.8 ± 1.18
	ACS3-ABPWSR0E	20 (0.5)	500 ± 30	19.7 ± 1.18
	ACS3-ABPWSR0G	20 (0.5)	700 ± 30	27.5 ± 1.18
	ACS3-ABPWSR0J	20 (0.5)	900 ± 30	35.4 ± 1.18
Torsion-Resistant	ACS3-ABPRSR0C	20 (0.5)	300 ± 30	11.8 ± 1.18
	ACS3-ABPRSR0E	20 (0.5)	500 ± 30	19.7 ± 1.18
	ACS3-ABPRSR0G	20 (0.5)	700 ± 30	27.5 ± 1.18
	ACS3-ABPRSR0J	20 (0.5)	900 ± 30	35.4 ± 1.18

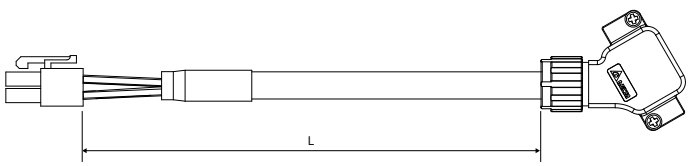
Power Adapter Cable with Brake

Cable exit direction towards motor shaft



Cable	Model Name	UVW AWG (mm²)	L mm	L inch
Standard	ACS3-AFPWSS0C	20 (0.5) + 24 (0.2)	300 ± 30	11.8 ± 1.18
	ACS3-AFPWSS0E	20 (0.5) + 24 (0.2)	500 ± 30	19.7 ± 1.18
	ACS3-AFPWSS0G	20 (0.5) + 24 (0.2)	700 ± 30	27.5 ± 1.18
	ACS3-AFPWSS0J	20 (0.5) + 24 (0.2)	900 ± 30	35.4 ± 1.18
Torsion-Resistant	ACS3-AFPRSS0C	20 (0.5) + 24 (0.2)	300 ± 30	11.8 ± 1.18
	ACS3-AFPRSS0E	20 (0.5) + 24 (0.2)	500 ± 30	19.7 ± 1.18
	ACS3-AFPRSS0G	20 (0.5) + 24 (0.2)	700 ± 30	27.5 ± 1.18
	ACS3-AFPRSS0J	20 (0.5) + 24 (0.2)	900 ± 30	35.4 ± 1.18

Cable exit direction towards encoder



Cable	Model Name	UVW AWG (mm²)	L mm	L inch
Standard	ACS3-ABPWSS0C	20 (0.5) + 24 (0.2)	300 ± 30	11.8 ± 1.18
	ACS3-ABPWSS0E	20 (0.5) + 24 (0.2)	500 ± 30	19.7 ± 1.18
	ACS3-ABPWSS0G	20 (0.5) + 24 (0.2)	700 ± 30	27.5 ± 1.18
	ACS3-ABPWSS0J	20 (0.5) + 24 (0.2)	900 ± 30	35.4 ± 1.18
Torsion-Resistant	ACS3-ABPRSS0C	20 (0.5) + 24 (0.2)	300 ± 30	11.8 ± 1.18
	ACS3-ABPRSS0E	20 (0.5) + 24 (0.2)	500 ± 30	19.7 ± 1.18
	ACS3-ABPRSS0G	20 (0.5) + 24 (0.2)	700 ± 30	27.5 ± 1.18
	ACS3-ABPRSS0J	20 (0.5) + 24 (0.2)	900 ± 30	35.4 ± 1.18

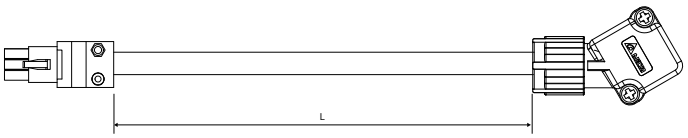
Ordering Information

Servo System ASDA-E3C Series

Accessories

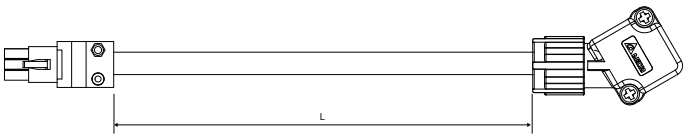
Single Connector - Incremental

Cable exit direction towards motor shaft



Cable	Model Name	UVW AWG (mm²)	L mm	L inch
Standard	ACS3-AFEASI0C	22 (0.3) + 26 (0.13)	300 ± 30	11.8 ± 1.18
	ACS3-AFEASI0E	22 (0.3) + 26 (0.13)	500 ± 30	19.7 ± 1.18
	ACS3-AFEASI0G	22 (0.3) + 26 (0.13)	700 ± 30	27.5 ± 1.18
	ACS3-AFEASI0J	22 (0.3) + 26 (0.13)	900 ± 30	35.4 ± 1.18
Torsion-Resistant	ACS3-AFERSI0C	22 (0.3) + 26 (0.13)	300 ± 30	11.8 ± 1.18
	ACS3-AFERSI0E	22 (0.3) + 26 (0.13)	500 ± 30	19.7 ± 1.18
	ACS3-AFERSI0G	22 (0.3) + 26 (0.13)	700 ± 30	27.5 ± 1.18
	ACS3-AFERSI0J	22 (0.3) + 26 (0.13)	900 ± 30	35.4 ± 1.18

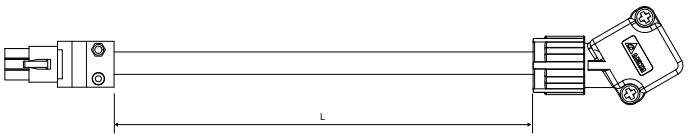
Cable exit direction towards encoder



Cable	Model Name	UVW AWG (mm²)	L mm	L inch
Standard	ACS3-ABEASI0C	22 (0.3) + 26 (0.13)	300 ± 30	11.8 ± 1.18
	ACS3-ABEASI0E	22 (0.3) + 26 (0.13)	500 ± 30	19.7 ± 1.18
	ACS3-ABEASI0G	22 (0.3) + 26 (0.13)	700 ± 30	27.5 ± 1.18
	ACS3-ABEASI0J	22 (0.3) + 26 (0.13)	900 ± 30	35.4 ± 1.18
Torsion-Resistant	ACS3-ABERSI0C	22 (0.3) + 26 (0.13)	300 ± 30	11.8 ± 1.18
	ACS3-ABERSI0E	22 (0.3) + 26 (0.13)	500 ± 30	19.7 ± 1.18
	ACS3-ABERSI0G	22 (0.3) + 26 (0.13)	700 ± 30	27.5 ± 1.18
	ACS3-ABERSI0J	22 (0.3) + 26 (0.13)	900 ± 30	35.4 ± 1.18

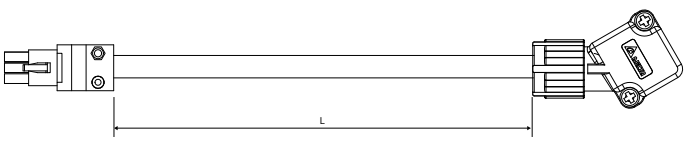
Single Connector - Absolute

Cable exit direction towards motor shaft



Cable	Model Name	UVW AWG (mm²)	L mm	L inch
Standard	ACS3-AFEASA0C	22 (0.3) + 26 (0.13)	300 ± 30	11.8 ± 1.18
	ACS3-AFEASA0E	22 (0.3) + 26 (0.13)	500 ± 30	19.7 ± 1.18
	ACS3-AFEASA0G	22 (0.3) + 26 (0.13)	700 ± 30	27.5 ± 1.18
	ACS3-AFEASA0J	22 (0.3) + 26 (0.13)	900 ± 30	35.4 ± 1.18
Torsion-Resistant	ACS3-AFERSA0C	22 (0.3) + 26 (0.13)	300 ± 30	11.8 ± 1.18
	ACS3-AFERSA0E	22 (0.3) + 26 (0.13)	500 ± 30	19.7 ± 1.18
	ACS3-AFERSA0G	22 (0.3) + 26 (0.13)	700 ± 30	27.5 ± 1.18
	ACS3-AFERSA0J	22 (0.3) + 26 (0.13)	900 ± 30	35.4 ± 1.18

Cable exit direction towards encoder



Cable	Model Name	UVW AWG (mm²)	L mm	L inch
Standard	ACS3-ABEASA0C	22 (0.3) + 26 (0.13)	300 ± 30	11.8 ± 1.18
	ACS3-ABEASA0E	22 (0.3) + 26 (0.13)	500 ± 30	19.7 ± 1.18
	ACS3-ABEASA0G	22 (0.3) + 26 (0.13)	700 ± 30	27.5 ± 1.18
	ACS3-ABEASA0J	22 (0.3) + 26 (0.13)	900 ± 30	35.4 ± 1.18
Torsion-Resistant	ACS3-ABERSA0C	22 (0.3) + 26 (0.13)	300 ± 30	11.8 ± 1.18
	ACS3-ABERSA0E	22 (0.3) + 26 (0.13)	500 ± 30	19.7 ± 1.18
	ACS3-ABERSA0G	22 (0.3) + 26 (0.13)	700 ± 30	27.5 ± 1.18
	ACS3-ABERSA0J	22 (0.3) + 26 (0.13)	900 ± 30	35.4 ± 1.18

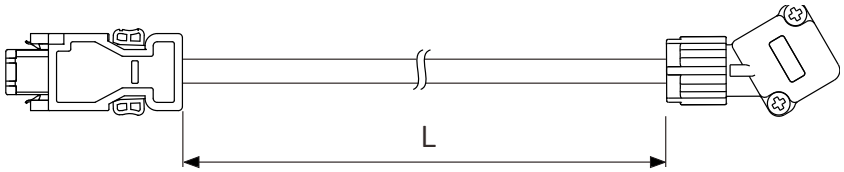
Ordering Information

Servo System ASDA-E3C Series

Accessories

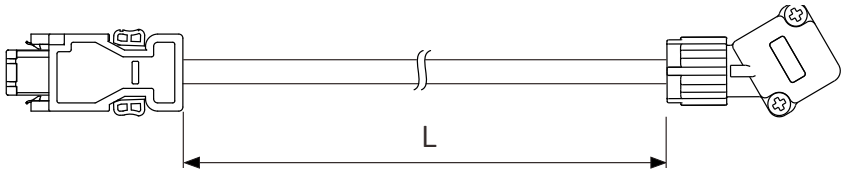
Incremental Encoder Connectors

Cable exit direction towards motor shaft



Cable	Model Name	L	
		mm	inch
Standard	ACS3-AFEASI03	3,000 ± 50	118 ± 2
	ACS3-AFEASI05	5,000 ± 50	197 ± 2
	ACS3-AFEASI10	10,000 ± 50	394 ± 4
	ACS3-AFEASI20	20,000 ± 50	787 ± 4
Torsion-Resistant	ACS3-AFERSI03	3,000 ± 50	118 ± 2
	ACS3-AFERSI05	5,000 ± 50	197 ± 2
	ACS3-AFERSI10	10,000 ± 50	394 ± 4
	ACS3-AFERSI20	20,000 ± 50	787 ± 4

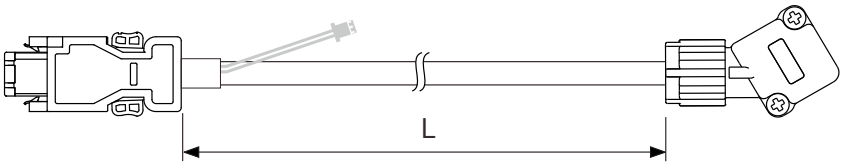
Cable exit direction towards encoder



Cable	Model Name	L	
		mm	inch
Standard	ACS3-ABEASI03	3,000 ± 50	118 ± 2
	ACS3-ABEASI05	5,000 ± 50	197 ± 2
	ACS3-ABEASI10	10,000 ± 50	394 ± 4
	ACS3-ABEASI20	20,000 ± 50	787 ± 4
Torsion-Resistant	ACS3-ABERSI03	3,000 ± 50	118 ± 2
	ACS3-ABERSI05	5,000 ± 50	197 ± 2
	ACS3-ABERSI10	10,000 ± 50	394 ± 4
	ACS3-ABERSI20	20,000 ± 50	787 ± 4

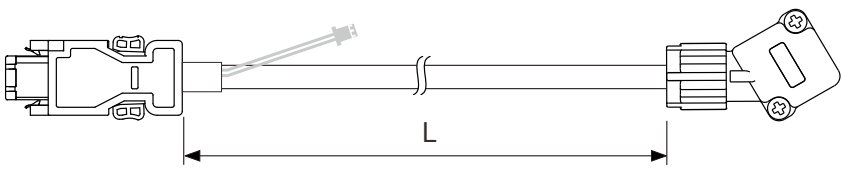
Absolute Encoder Connectors

Cable exit direction towards motor shaft



Cable	Model Name	L	
		mm	inch
Standard	ACS3-AFEASA03	3,000 ± 50	118 ± 2
	ACS3-AFEASA05	5,000 ± 50	197 ± 2
	ACS3-AFEASA10	10,000 ± 50	394 ± 4
	ACS3-AFEASA20	20,000 ± 50	787 ± 4
Torsion-Resistant	ACS3-AFERSA03	3,000 ± 50	118 ± 2
	ACS3-AFERSA05	5,000 ± 50	197 ± 2
	ACS3-AFERSA10	10,000 ± 50	394 ± 4
	ACS3-AFERSA20	20,000 ± 50	787 ± 4

Cable exit direction towards encoder



Cable	Model Name	L	
		mm	inch
Standard	ACS3-ABEASA03	3,000 ± 50	118 ± 2
	ACS3-ABEASA05	5,000 ± 50	197 ± 2
	ACS3-ABEASA10	10,000 ± 50	394 ± 4
	ACS3-ABEASA20	20,000 ± 50	787 ± 4
Torsion-Resistant	ACS3-ABERSA03	3,000 ± 50	118 ± 2
	ACS3-ABERSA05	5,000 ± 50	197 ± 2
	ACS3-ABERSA10	10,000 ± 50	394 ± 4
	ACS3-ABERSA20	20,000 ± 50	787 ± 4

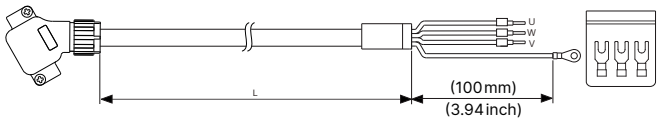
Ordering Information

Servo System ASDA-E3C Series

Accessories

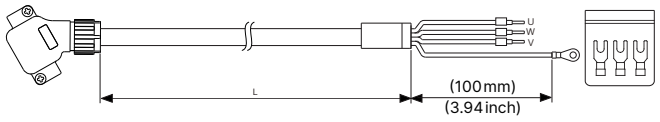
Power Cable w/o Brake

Cable exit direction towards motor shaft



Cable	Model Name	UVW AWG (mm²)	L mm	L inch
Standard	ACS3-AFPWSA03	20 (0.5)	3,000 ± 50	118 ± 2
	ACS3-AFPWSA05	20 (0.5)	5,000 ± 50	197 ± 2
	ACS3-AFPWSA10	20 (0.5)	10,000 ± 100	394 ± 4
	ACS3-AFPWSA20	20 (0.5)	20,000 ± 100	787 ± 4
Torsion-Resistant	ACS3-AFPRSA03	20 (0.5)	3,000 ± 50	118 ± 2
	ACS3-AFPRSA05	20 (0.5)	5,000 ± 50	197 ± 2
	ACS3-AFPRSA10	20 (0.5)	10,000 ± 100	394 ± 4
	ACS3-AFPRSA20	20 (0.5)	20,000 ± 100	787 ± 4

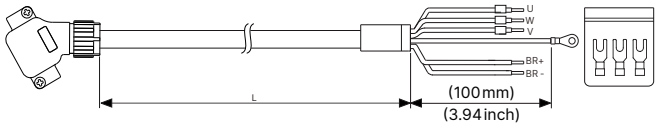
Cable exit direction towards encoder



Cable	Model Name	UVW AWG (mm²)	L mm	L inch
Standard	ACS3-ABPWSA03	20 (0.5)	3,000 ± 50	118 ± 2
	ACS3-ABPWSA05	20 (0.5)	5,000 ± 50	197 ± 2
	ACS3-ABPWSA10	20 (0.5)	10,000 ± 100	394 ± 4
	ACS3-ABPWSA20	20 (0.5)	20,000 ± 100	787 ± 4
Torsion-Resistant	ACS3-ABPRSA03	20 (0.5)	3,000 ± 50	118 ± 2
	ACS3-ABPRSA05	20 (0.5)	5,000 ± 50	197 ± 2
	ACS3-ABPRSA10	20 (0.5)	10,000 ± 100	394 ± 4
	ACS3-ABPRSA20	20 (0.5)	20,000 ± 100	787 ± 4

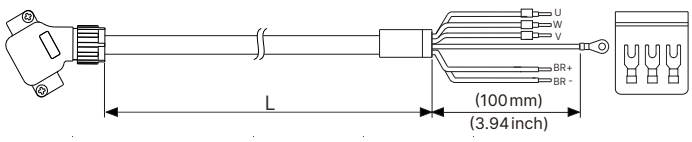
Power Cable with Brake

Cable exit direction towards motor shaft



Cable	Model Name	UVW AWG (mm²)	L mm	L inch
Standard	ACS3-AFPWSB03	20 (0.5) + 24 (0.2)	3,000 ± 50	118 ± 2
	ACS3-AFPWSB05	20 (0.5) + 24 (0.2)	5,000 ± 50	197 ± 2
	ACS3-AFPWSB10	20 (0.5) + 24 (0.2)	10,000 ± 100	394 ± 4
	ACS3-AFPWSB20	20 (0.5) + 24 (0.2)	20,000 ± 100	787 ± 4
Torsion-Resistant	ACS3-AFPRSB03	20 (0.5) + 24 (0.2)	3,000 ± 50	118 ± 2
	ACS3-AFPRSB05	20 (0.5) + 24 (0.2)	5,000 ± 50	197 ± 2
	ACS3-AFPRSB10	20 (0.5) + 24 (0.2)	10,000 ± 100	394 ± 4
	ACS3-AFPRSB20	20 (0.5) + 24 (0.2)	20,000 ± 100	787 ± 4

Cable exit direction towards encoder



Cable	Model Name	UVW AWG (mm²)	L mm	L inch
Standard	ACS3-ABPWSB03	20 (0.5) + 24 (0.2)	3,000 ± 50	118 ± 2
	ACS3-ABPWSB05	20 (0.5) + 24 (0.2)	5,000 ± 50	197 ± 2
	ACS3-ABPWSB10	20 (0.5) + 24 (0.2)	10,000 ± 100	394 ± 4
	ACS3-ABPWSB20	20 (0.5) + 24 (0.2)	20,000 ± 100	787 ± 4
Torsion-Resistant	ACS3-ABPRSB03	20 (0.5) + 24 (0.2)	3,000 ± 50	118 ± 2
	ACS3-ABPRSB05	20 (0.5) + 24 (0.2)	5,000 ± 50	197 ± 2
	ACS3-ABPRSB10	20 (0.5) + 24 (0.2)	10,000 ± 100	394 ± 4
	ACS3-ABPRSB20	20 (0.5) + 24 (0.2)	20,000 ± 100	787 ± 4

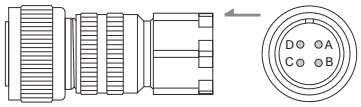
Ordering Information

Servo System ASDA-E3C Series

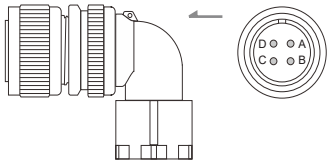
Accessories

Mil-Spec Connectors (For F100 and above)

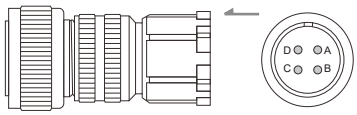
ACS3-CAPWA000
(for F100-F130)
Mil-Spec: MIL 3106A18-10S



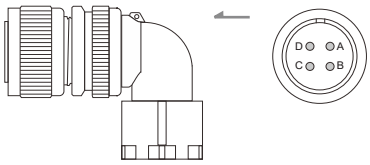
ACS3-CRPWA000
(for F100-F130)
Mil-Spec: MIL 3108A18-10S



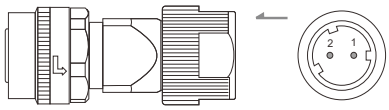
ACS3-CAPWC000
(for F180 kW)
Mil-Spec: MIL 3106A22-22S



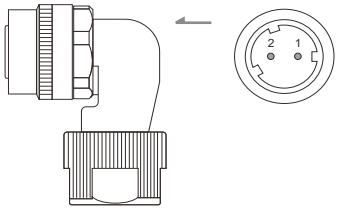
ACS3-CRPWC000
(for F180 kW)
Mil-Spec: MIL 3108A22-22S



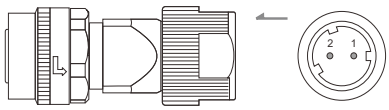
ACS3-CABRA000
(for F100-180 with brake)
Mil-Spec: CMV1-SP2S
Snap-lock type



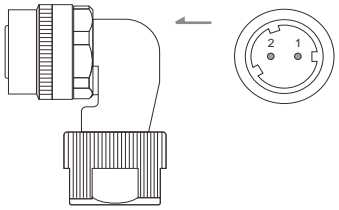
ACS3-CRBRA000
(for F100-180 with brake)
Mil-Spec: CMV1-AP2S
Snap-lock type



ACS3-CABRM000
(for F100-180 with brake)
Mil-Spec: CM1-SP2S
Threaded type (for high vibration applications)



ACS3-CRBRM000
(for F100-180 with brake)
Mil-Spec: CM1-AP2S
Threaded type (for high vibration applications)



Ordering Information

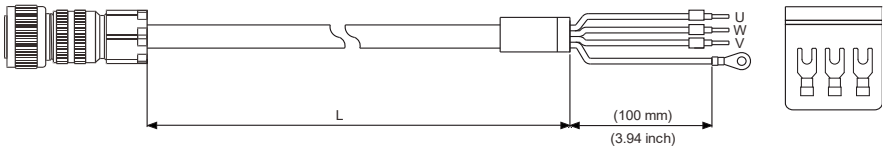
Servo System ASDA-E3C Series

Accessories

Power Cable

F100 ~ F130

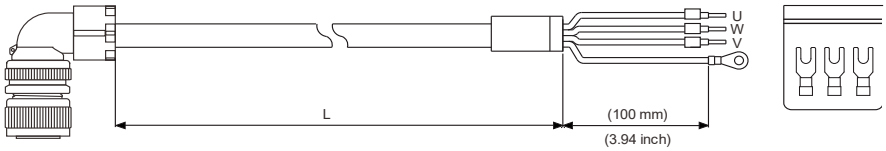
E3 motor, w/o brake, straight connector



Cable	Model Name	UVW AWG (mm^2)	L mm	L inch
Standard	ACS3-CAPWA203	16 (1.3)	3,000 ± 50	118 ± 2
	ACS3-CAPWA205	16 (1.3)	5,000 ± 50	197 ± 2
	ACS3-CAPWA210	16 (1.3)	10,000 ± 100	394 ± 4
	ACS3-CAPWA220	16 (1.3)	20,000 ± 100	787 ± 4
	ACS3-CAPWA303	14 (2.1)	3,000 ± 50	118 ± 2
	ACS3-CAPWA305	14 (2.1)	5,000 ± 50	197 ± 2
	ACS3-CAPWA310	14 (2.1)	10,000 ± 100	394 ± 4
	ACS3-CAPWA320	14 (2.1)	20,000 ± 100	787 ± 4
Torsion-Resistant	ACS3-CAPFA203	16 (1.3)	3,000 ± 50	118 ± 2
	ACS3-CAPFA205	16 (1.3)	5,000 ± 50	197 ± 2
	ACS3-CAPFA210	16 (1.3)	10,000 ± 100	394 ± 4
	ACS3-CAPFA220	16 (1.3)	20,000 ± 100	787 ± 4
	ACS3-CAPFA303	14 (2.1)	3,000 ± 50	118 ± 2
	ACS3-CAPFA305	14 (2.1)	5,000 ± 50	197 ± 2
	ACS3-CAPFA310	14 (2.1)	10,000 ± 100	394 ± 4
	ACS3-CAPFA320	14 (2.1)	20,000 ± 100	787 ± 4

F100 ~ F130

E3 motor, w/o brake, right-angle connector



Cable	Model Name	UVW AWG (mm^2)	L mm	L inch
Standard	ACS3-CRPWA203	16 (1.3)	3,000 ± 50	118 ± 2
	ACS3-CRPWA205	16 (1.3)	5,000 ± 50	197 ± 2
	ACS3-CRPWA210	16 (1.3)	10,000 ± 100	394 ± 4
	ACS3-CRPWA220	16 (1.3)	20,000 ± 100	787 ± 4
	ACS3-CRPWA303	14 (2.1)	3,000 ± 50	118 ± 2
	ACS3-CRPWA305	14 (2.1)	5,000 ± 50	197 ± 2
	ACS3-CRPWA310	14 (2.1)	10,000 ± 100	394 ± 4
	ACS3-CRPWA320	14 (2.1)	20,000 ± 100	787 ± 4
Torsion-Resistant	ACS3-CRPFA203	16 (1.3)	3,000 ± 50	118 ± 2
	ACS3-CRPFA205	16 (1.3)	5,000 ± 50	197 ± 2
	ACS3-CRPFA210	16 (1.3)	10,000 ± 100	394 ± 4
	ACS3-CRPFA220	16 (1.3)	20,000 ± 100	787 ± 4
	ACS3-CRPFA303	14 (2.1)	3,000 ± 50	118 ± 2
	ACS3-CRPFA305	14 (2.1)	5,000 ± 50	197 ± 2
	ACS3-CRPFA310	14 (2.1)	10,000 ± 100	394 ± 4
	ACS3-CRPFA320	14 (2.1)	20,000 ± 100	787 ± 4

Ordering Information

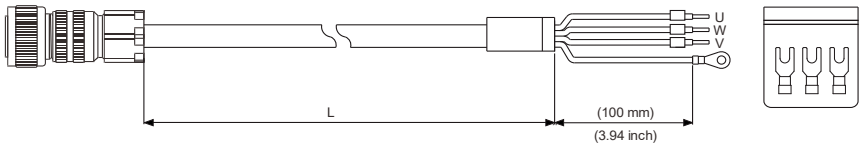
Servo System ASDA-E3C Series

Accessories

Power Cable

200 V F180, 3kW

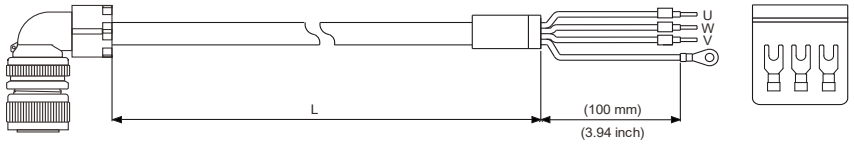
E3 motor, w/o brake, straight connector



Cable	Model Name	UVW AWG (mm²)	L mm	L inch
Standard	ACS3-CAPWC503	10 (5.3)	3,000 ± 50	118 ± 2
	ACS3-CAPWC505	10 (5.3)	5,000 ± 50	197 ± 2
	ACS3-CAPWC510	10 (5.3)	10,000 ± 100	394 ± 4
	ACS3-CAPWC520	10 (5.3)	20,000 ± 100	787 ± 4

Cable	Model Name	UVW AWG (mm²)	L mm	L inch
Torsion-Resistant	ACS3-CAPFC503	10 (5.3)	3,000 ± 50	118 ± 2
	ACS3-CAPFC505	10 (5.3)	5,000 ± 50	197 ± 2
	ACS3-CAPFC510	10 (5.3)	10,000 ± 100	394 ± 4
	ACS3-CAPFC520	10 (5.3)	20,000 ± 100	787 ± 4

E3 motor, w/o brake, right-angle connector

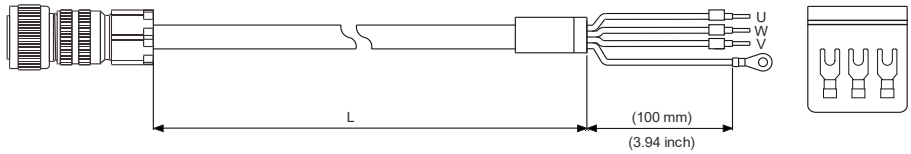


Cable	Model Name	UVW AWG (mm²)	L mm	L inch
Standard	ACS3-CRPWC503	10 (5.3)	3,000 ± 50	118 ± 2
	ACS3-CRPWC505	10 (5.3)	5,000 ± 50	197 ± 2
	ACS3-CRPWC510	10 (5.3)	10,000 ± 100	394 ± 4
	ACS3-CRPWC520	10 (5.3)	20,000 ± 100	787 ± 4

Cable	Model Name	UVW AWG (mm²)	L mm	L inch
Torsion-Resistant	ACS3-CRPFC503	10 (5.3)	3,000 ± 50	118 ± 2
	ACS3-CRPFC505	10 (5.3)	5,000 ± 50	197 ± 2
	ACS3-CRPFC510	10 (5.3)	10,000 ± 100	394 ± 4
	ACS3-CRPFC520	10 (5.3)	20,000 ± 100	787 ± 4

400 V F180, 3kW

E3 motor, w/o brake, straight connector

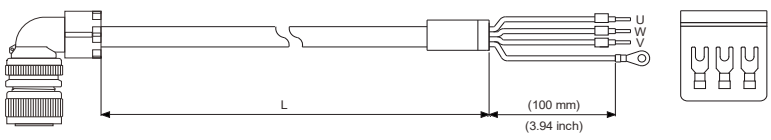


Cable	Model Name	UVW AWG (mm²)	L mm	L inch
Standard	ACS3-CAPWC303	14 (2.1)	3,000 ± 50	118 ± 2
	ACS3-CAPWC305	14 (2.1)	5,000 ± 50	197 ± 2
	ACS3-CAPWC310	14 (2.1)	10,000 ± 100	394 ± 4
	ACS3-CAPWC320	14 (2.1)	20,000 ± 100	787 ± 4

Cable	Model Name	UVW AWG (mm²)	L mm	L inch
Torsion-Resistant	ACS3-CAPFC303	14 (2.1)	3,000 ± 50	118 ± 2
	ACS3-CAPFC305	14 (2.1)	5,000 ± 50	197 ± 2
	ACS3-CAPFC310	14 (2.1)	10,000 ± 100	394 ± 4
	ACS3-CAPFC320	14 (2.1)	20,000 ± 100	787 ± 4

400 V F180, 3kW

E3 motor, w/o brake, right-angle connector



Cable	Model Name	UVW AWG (mm²)	L mm	L inch
Standard	ACS3-CRPWC303	14 (2.1)	3,000 ± 50	118 ± 2
	ACS3-CRPWC305	14 (2.1)	5,000 ± 50	197 ± 2
	ACS3-CRPWC310	14 (2.1)	10,000 ± 100	394 ± 4
	ACS3-CRPWC320	14 (2.1)	20,000 ± 100	787 ± 4

Cable	Model Name	UVW AWG (mm²)	L mm	L inch
Torsion-Resistant	ACS3-CRPFC303	14 (2.1)	3,000 ± 50	118 ± 2
	ACS3-CRPFC305	14 (2.1)	5,000 ± 50	197 ± 2
	ACS3-CRPFC310	14 (2.1)	10,000 ± 100	394 ± 4
	ACS3-CRPFC320	14 (2.1)	20,000 ± 100	787 ± 4

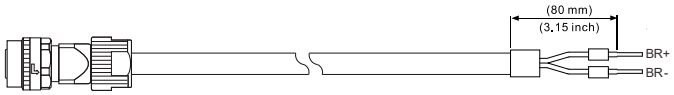
Ordering Information

Servo System ASDA-E3C Series

Accessories

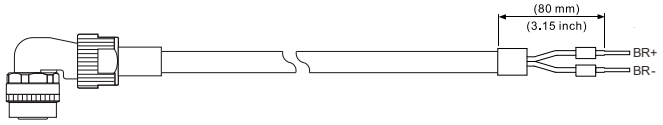
Power Cable

F100~F180 Brake Cable
E3 Motor, with brake, straight connector



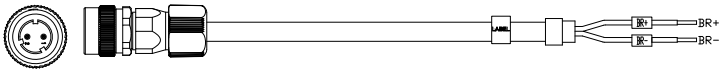
Cable	Model Name	UVW AWG (mm²)	L mm	L inch
Standard	ACS3-CABRA103	20 (0.5)	3,000 ± 50	118 ± 2
	ACS3-CABRA105	20 (0.5)	5,000 ± 50	197 ± 2
	ACS3-CABRA110	20 (0.5)	10,000 ± 100	394 ± 4
	ACS3-CABRA120	20 (0.5)	20,000 ± 100	787 ± 4
Torsion-Resistant	ACS3-CABFA103	20 (0.5)	3,000 ± 50	118 ± 2
	ACS3-CABFA105	20 (0.5)	5,000 ± 50	197 ± 2
	ACS3-CABFA110	20 (0.5)	10,000 ± 100	394 ± 4
	ACS3-CABFA120	20 (0.5)	20,000 ± 100	787 ± 4

F100~F220 Brake Cable
E3 Motor, with brake, right-angle connector



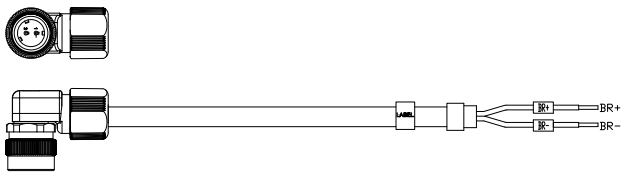
Cable	Model Name	UVW AWG (mm²)	L mm	L inch
Standard	ACS3-CRBRA103	20 (0.5)	3,000 ± 50	118 ± 2
	ACS3-CRBRA105	20 (0.5)	5,000 ± 50	197 ± 2
	ACS3-CRBRA110	20 (0.5)	10,000 ± 100	394 ± 4
	ACS3-CRBRA120	20 (0.5)	20,000 ± 100	787 ± 4
Torsion-Resistant	ACS3-CRBFA103	20 (0.5)	3,000 ± 50	118 ± 2
	ACS3-CRBFA105	20 (0.5)	5,000 ± 50	197 ± 2
	ACS3-CRBFA110	20 (0.5)	10,000 ± 100	394 ± 4
	ACS3-CRBFA120	20 (0.5)	20,000 ± 100	787 ± 4

Threaded Type
E3 motor, straight connector



Cable	Model Name	UVW AWG (mm²)	L mm	L inch
Standard	ACS3-CABRM103	20 (0.5)	3,000 ± 50	118 ± 2
	ACS3-CABRM105	20 (0.5)	5,000 ± 50	197 ± 2
	ACS3-CABRM110	20 (0.5)	10,000 ± 100	394 ± 4
	ACS3-CABRM120	20 (0.5)	20,000 ± 100	787 ± 4
Torsion-Resistant	ACS3-CABFM103	20 (0.5)	3,000 ± 50	118 ± 2
	ACS3-CABFM105	20 (0.5)	5,000 ± 50	197 ± 2
	ACS3-CABFM110	20 (0.5)	10,000 ± 100	394 ± 4
	ACS3-CABFM120	20 (0.5)	20,000 ± 100	787 ± 4

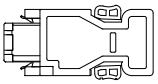
E3 motor, right-angle connector



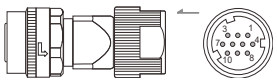
Cable	Model Name	UVW AWG (mm²)	L mm	L inch
Standard	ACS3-CRBRM103	20 (0.5)	3,000 ± 50	118 ± 2
	ACS3-CRBRM105	20 (0.5)	5,000 ± 50	197 ± 2
	ACS3-CRBRM110	20 (0.5)	10,000 ± 100	394 ± 4
	ACS3-CRBRM120	20 (0.5)	20,000 ± 100	787 ± 4
Torsion-Resistant	ACS3-CRBFM103	20 (0.5)	3,000 ± 50	118 ± 2
	ACS3-CRBFM105	20 (0.5)	5,000 ± 50	197 ± 2
	ACS3-CRBFM110	20 (0.5)	10,000 ± 100	394 ± 4
	ACS3-CRBFM120	20 (0.5)	20,000 ± 100	787 ± 4

Encoder Connector

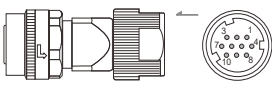
ACS3-CNENC200
(connecting to drive)



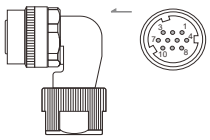
ACS3-CAENA000 (for F100~F180)
Mil-Spec: CMV1-SP10S, Snap-lock type



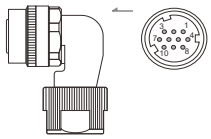
ACS3-CAENM000 (for F100~F180)
Mil-Spec: CM1-SP10S, Threaded type
(for high vibration applications)



ACS3-CRENA000 (for F100~F180)
Mil-Spec: CMV1-AP10S, Snap-lock type



ACS3-CRENM000 (for F100~F180)
Mil-Spec: CM1-SP10S, Threaded type
(for high vibration applications)



Ordering Information

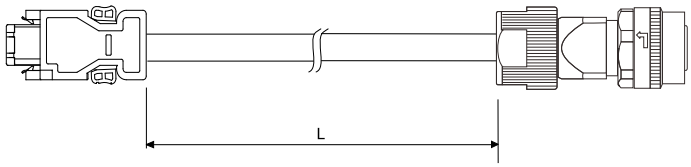
Servo System ASDA-E3C Series

Accessories

Incremental Encoder Connector

F100 ~ F180, 3kW

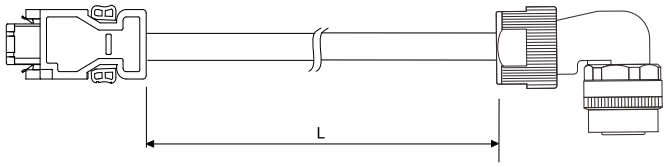
E3 motor, straight connector



Cable	Model Name	L	
		mm	inch
Standard	ACS3-CAENA103	3,000 ± 50	118 ± 2
	ACS3-CAENA105	5,000 ± 50	197 ± 2
	ACS3-CAENA110	10,000 ± 100	394 ± 4
	ACS3-CAENA120	20,000 ± 100	787 ± 4
Torsion-Resistant	ACS3-CAEFA103	3,000 ± 50	118 ± 2
	ACS3-CAEFA105	5,000 ± 50	197 ± 2
	ACS3-CAEFA110	10,000 ± 100	394 ± 4
	ACS3-CAEFA120	20,000 ± 100	787 ± 4

F100 ~ F180

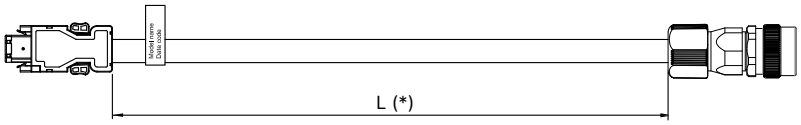
E3 Motor, right-angle connector



Cable	Model Name	L	
		mm	inch
Standard	ACS3-CRENA103	3,000 ± 50	118 ± 2
	ACS3-CRENA105	5,000 ± 50	197 ± 2
	ACS3-CRENA110	10,000 ± 100	394 ± 4
	ACS3-CRENA120	20,000 ± 100	787 ± 4
Torsion-Resistant	ACS3-CREFA103	3,000 ± 50	118 ± 2
	ACS3-CREFA105	5,000 ± 50	197 ± 2
	ACS3-CREFA110	10,000 ± 100	394 ± 4
	ACS3-CREFA120	20,000 ± 100	787 ± 4

Threaded Type

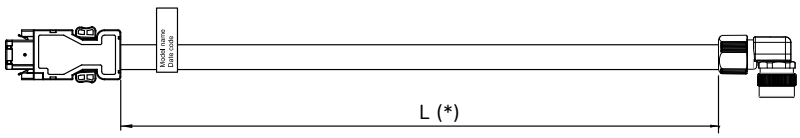
E3 Motor, straight connector



Cable	Model Name	L	
		mm	inch
Standard	ACS3-CAENM103	3,000 ± 50	118 ± 2
	ACS3-CAENM105	5,000 ± 50	197 ± 2
	ACS3-CAENM110	10,000 ± 100	394 ± 4
	ACS3-CAENM120	20,000 ± 100	787 ± 4
Torsion-Resistant	ACS3-CAEFM103	3,000 ± 50	118 ± 2
	ACS3-CAEFM105	5,000 ± 50	197 ± 2
	ACS3-CAEFM110	10,000 ± 100	394 ± 4
	ACS3-CAEFM120	20,000 ± 100	787 ± 4

Threaded Type

E3 Motor, right-angle connector



Cable	Model Name	L	
		mm	inch
Standard	ACS3-CRENM103	3,000 ± 50	118 ± 2
	ACS3-CRENM105	5,000 ± 50	197 ± 2
	ACS3-CRENM110	10,000 ± 100	394 ± 4
	ACS3-CRENM120	20,000 ± 100	787 ± 4
Torsion-Resistant	ACS3-CREFM103	3,000 ± 50	118 ± 2
	ACS3-CREFM105	5,000 ± 50	197 ± 2
	ACS3-CREFM110	10,000 ± 100	394 ± 4
	ACS3-CREFM120	20,000 ± 100	787 ± 4

Ordering Information

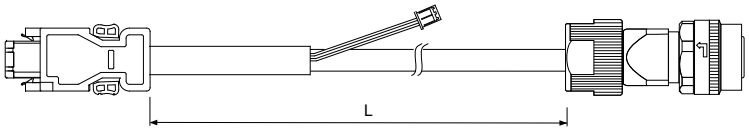
Servo System ASDA-E3C Series

Accessories

Absolute Encoder Connector

F100 ~ F180

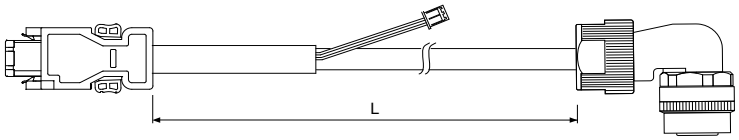
E3 Motor, straight connector



Cable	Model Name	L	
		mm	inch
Standard	ACS3-CAEAA103	3,000 ± 50	118 ± 2
	ACS3-CAEAA105	5,000 ± 50	197 ± 2
	ACS3-CAEAA110	10,000 ± 100	394 ± 4
	ACS3-CAEAA120	20,000 ± 100	787 ± 4
Torsion-Resistant	ACS3-CAEBA103	3,000 ± 50	118 ± 2
	ACS3-CAEBA105	5,000 ± 50	197 ± 2
	ACS3-CAEBA110	10,000 ± 100	394 ± 4
	ACS3-CAEBA120	20,000 ± 100	787 ± 4

F100 ~ F180

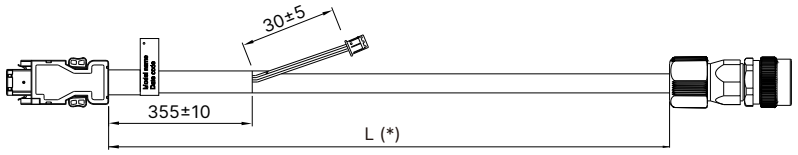
E3 Motor, right-angle connector



Cable	Model Name	L	
		mm	inch
Standard	ACS3-CREAA103	3,000 ± 50	118 ± 2
	ACS3-CREAA105	5,000 ± 50	197 ± 2
	ACS3-CREAA110	10,000 ± 100	394 ± 4
	ACS3-CREAA120	20,000 ± 100	787 ± 4
Torsion-Resistant	ACS3-CREBA103	3,000 ± 50	118 ± 2
	ACS3-CREBA105	5,000 ± 50	197 ± 2
	ACS3-CREBA110	10,000 ± 100	394 ± 4
	ACS3-CREBA120	20,000 ± 100	787 ± 4

Threaded Type

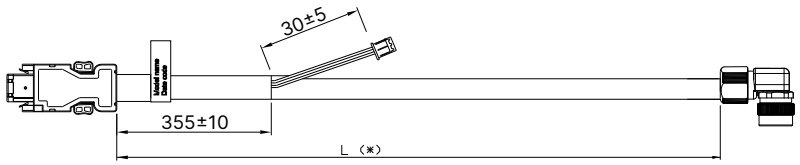
E3 Motor, straight connector



Cable	Model Name	L	
		mm	inch
Standard	ACS3-CAEAM103	3,000 ± 50	118 ± 2
	ACS3-CAEAM105	5,000 ± 50	197 ± 2
	ACS3-CAEAM110	10,000 ± 100	394 ± 4
	ACS3-CAEAM120	20,000 ± 100	787 ± 4
Torsion-Resistant	ACS3-CAEBM103	3,000 ± 50	118 ± 2
	ACS3-CAEBM105	5,000 ± 50	197 ± 2
	ACS3-CAEBM110	10,000 ± 100	394 ± 4
	ACS3-CAEBM120	20,000 ± 100	787 ± 4

Threaded Type

E3 Motor, right-angle connector



Cable	Model Name	L	
		mm	inch
Standard	ACS3-CREAM103	3,000 ± 50	118 ± 2
	ACS3-CREAM105	5,000 ± 50	197 ± 2
	ACS3-CREAM110	10,000 ± 100	394 ± 4
	ACS3-CREAM120	20,000 ± 100	787 ± 4
Torsion-Resistant	ACS3-CREBM103	3,000 ± 50	118 ± 2
	ACS3-CREBM105	5,000 ± 50	197 ± 2
	ACS3-CREBM110	10,000 ± 100	394 ± 4
	ACS3-CREBM120	20,000 ± 100	787 ± 4

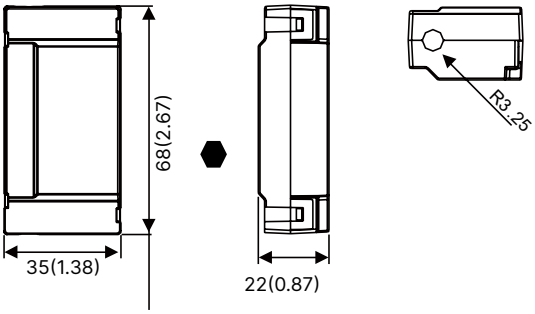
Ordering Information

Servo System ASDA-E3C Series

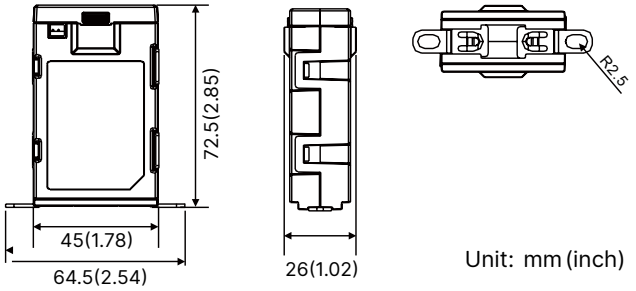
Accessories

Absolute Battery Box

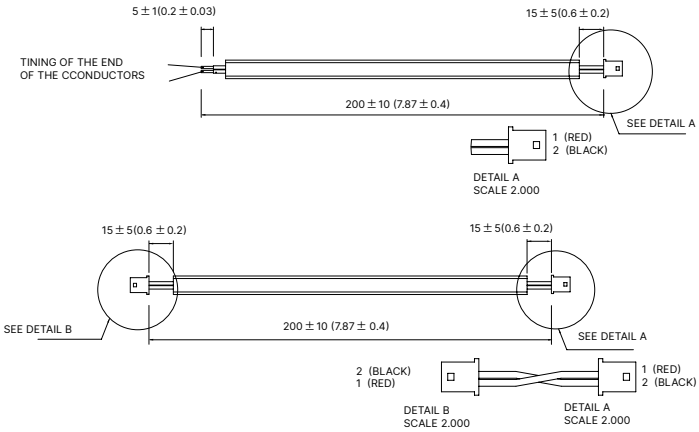
Single Battery Box
ASD-MDBT0100



Double Battery Box
ASD-MDBT0200

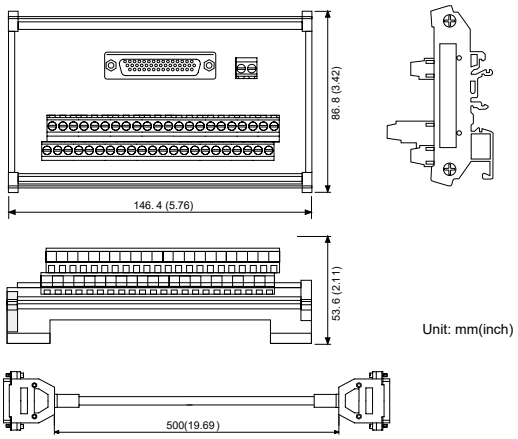


Note:
Contact Delta Global Service team if ordering battery box cord only

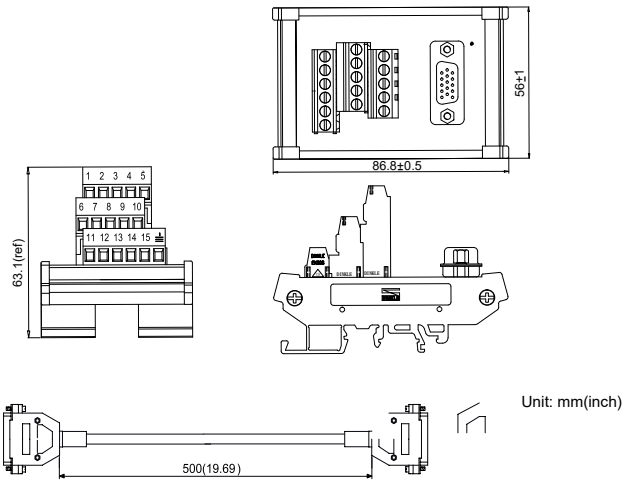


CN1 Terminal Block Module

ACS3-MDTB4400(for E3C-L)



ACS3-MDTB1500(for E3C-E)



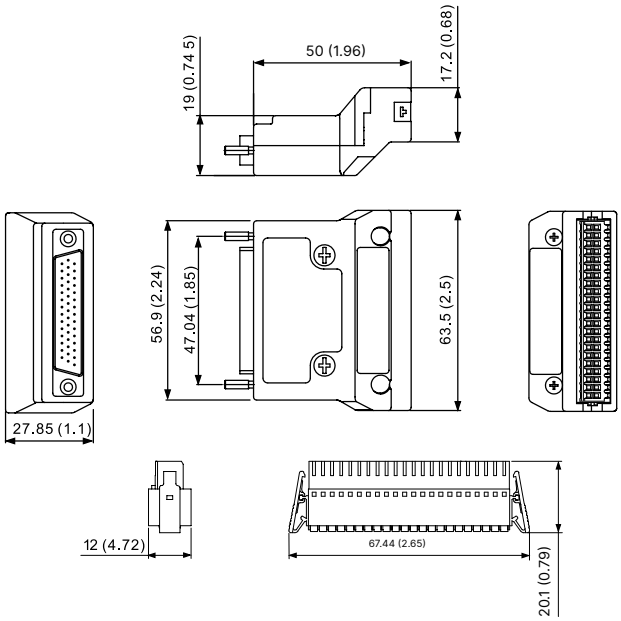
Ordering Information

Servo System ASDA-E3C Series

Accessories

CN1 Connectors

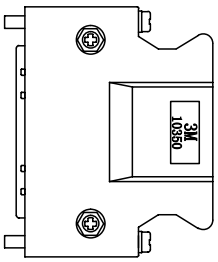
ACS3-IFSC4444 (for E3C-L)



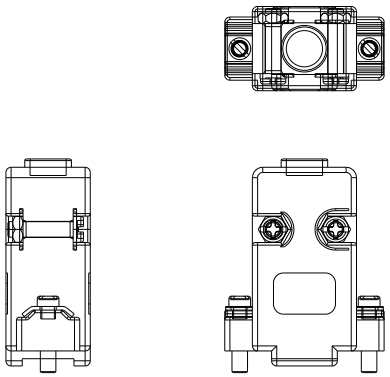
Unit: mm (inch)

CN1 Connectors

ACS3-CNTB0400(for E3C-L)

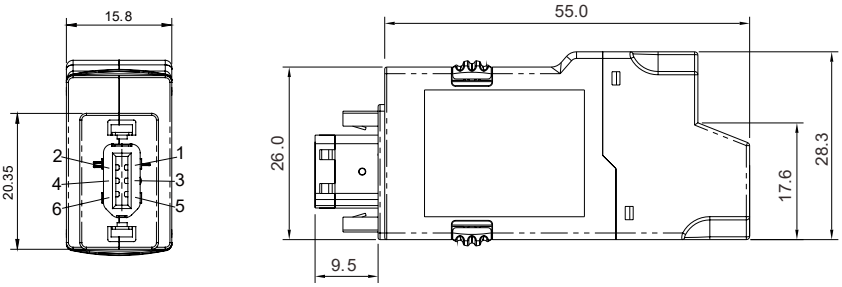


ACS3-CNTB0800(for E3C-E)



RS-485 Tap unit: mm

ASD-CNIE0B06



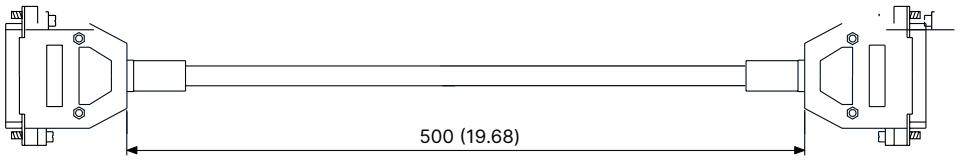
Ordering Information

Servo System ASDA-E3C Series

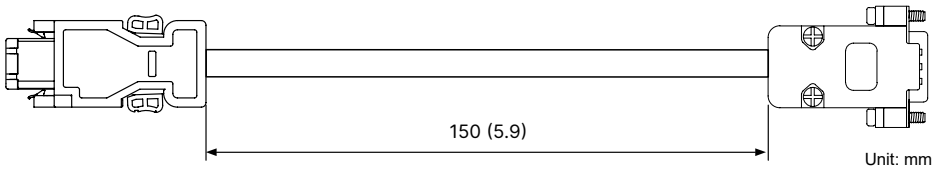
Accessories

E3/B2 Conversion Cables

E3/B2 CN1 conversion cable
ACS3-CABDC1



E3/B2 CN2 conversion cable
ACS3-CABDC2



Unit: mm (inch)

CN3 RS-485 CANOpen Terminal Resistor

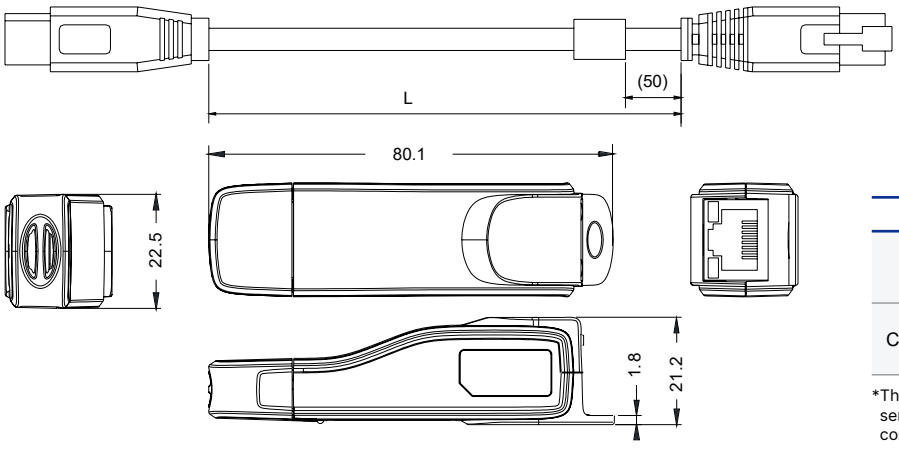
ACS3-CNADC3TR



Unit: mm (inch)

CN3 Drive-PC Communication Cable (for E3C-L only)

ACS3-CNUS0A08



Title	Part No. : ACS3-CNUS0A08	
Cable	L	3000 ± 100 mm
		118 ± 4 inch
Connector	RJ connector	RJ-45
	USB connector	A-type (USB V2.0)

*This is the new naming convention for the third-generation servo cable, actually it is the same as the ASDA-B2 servo communication cable ASD-CNUS0A08.

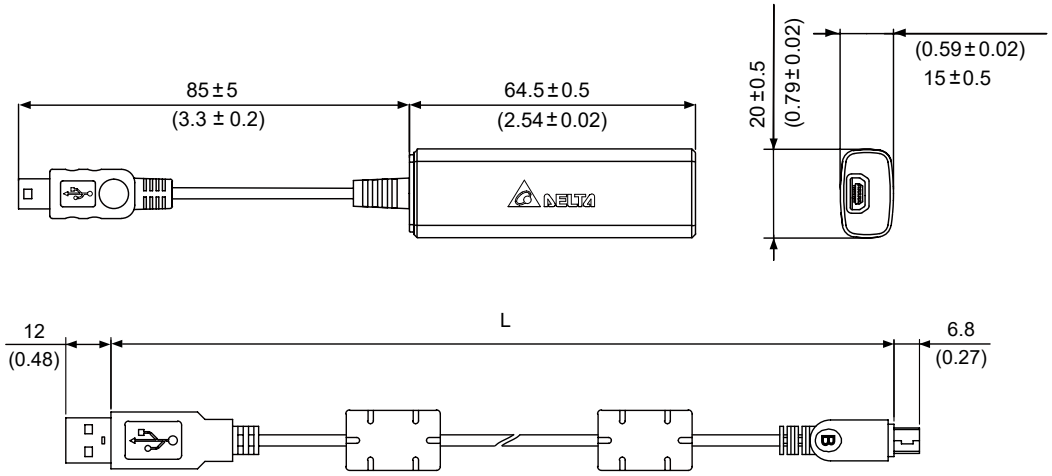
Ordering Information

Servo System ASDA-E3C Series

Accessories

CN4 Mini USB Communication Module (for E3C-L only)

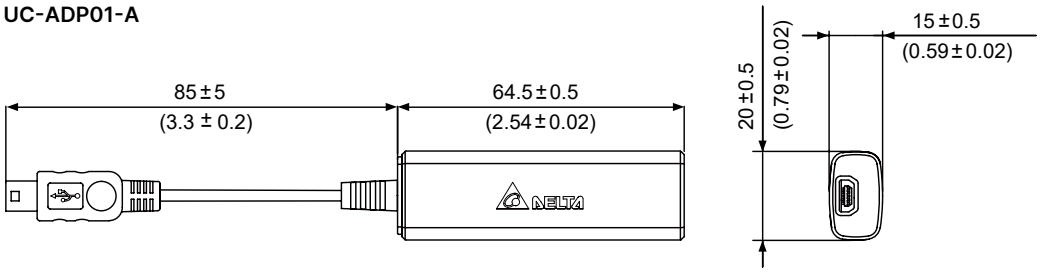
UC-PRG015-01B, UC-PRG030-01B



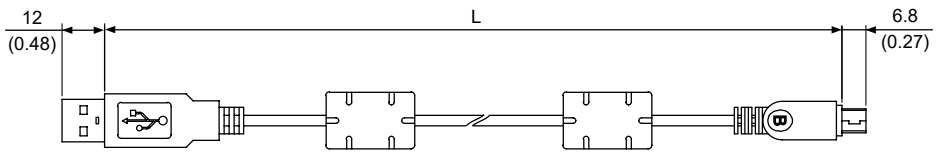
Unit: mm (inch)

Item	Model Name	L	
		mm	inch
1	UC-PRG015-01B	1500 ± 10	59 ± 4
2	UC-PRG030-01B	3000 ± 10	118 ± 4

UC-ADP01-A



UC-PRG015-01A, UC-PRG030-01A



Unit: mm (inch)

Item	Model Name	L	
		mm	inch
1	UC-PRG015-01A	1500 ± 10	59 ± 4
2	UC-PRG030-01A	3000 ± 10	118 ± 4

Smarter. Greener. Together.

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

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