



Stock Code: 002979

AC Servo

Product Catalogue

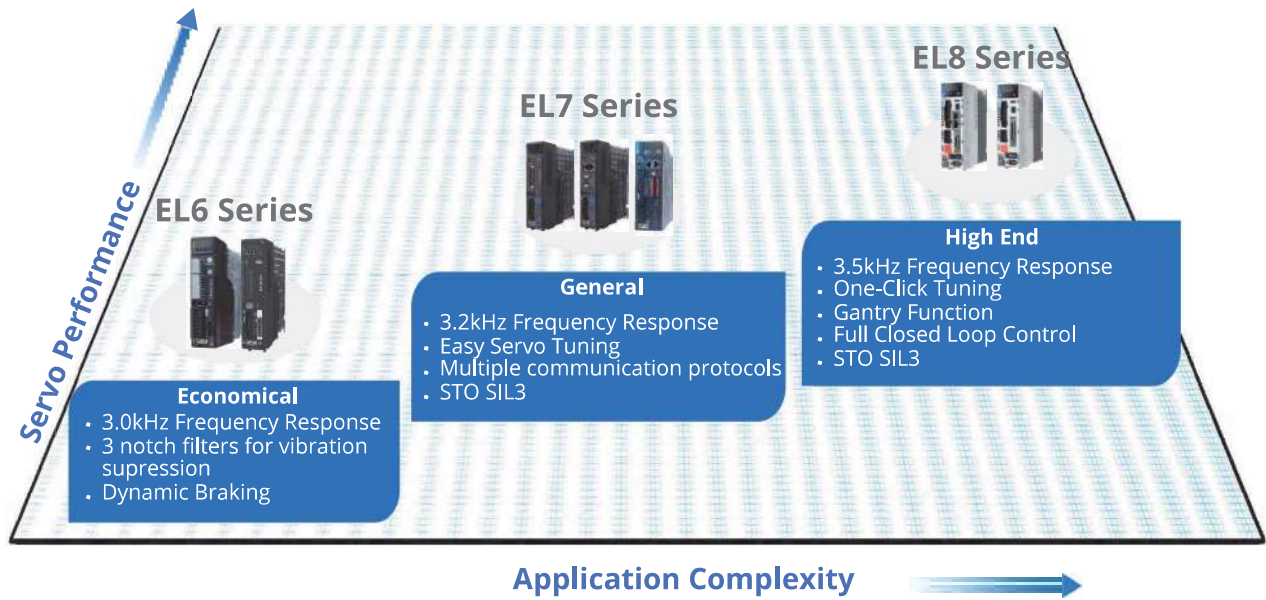
www.erre1.it

Leadshine Motion Control Total Product System

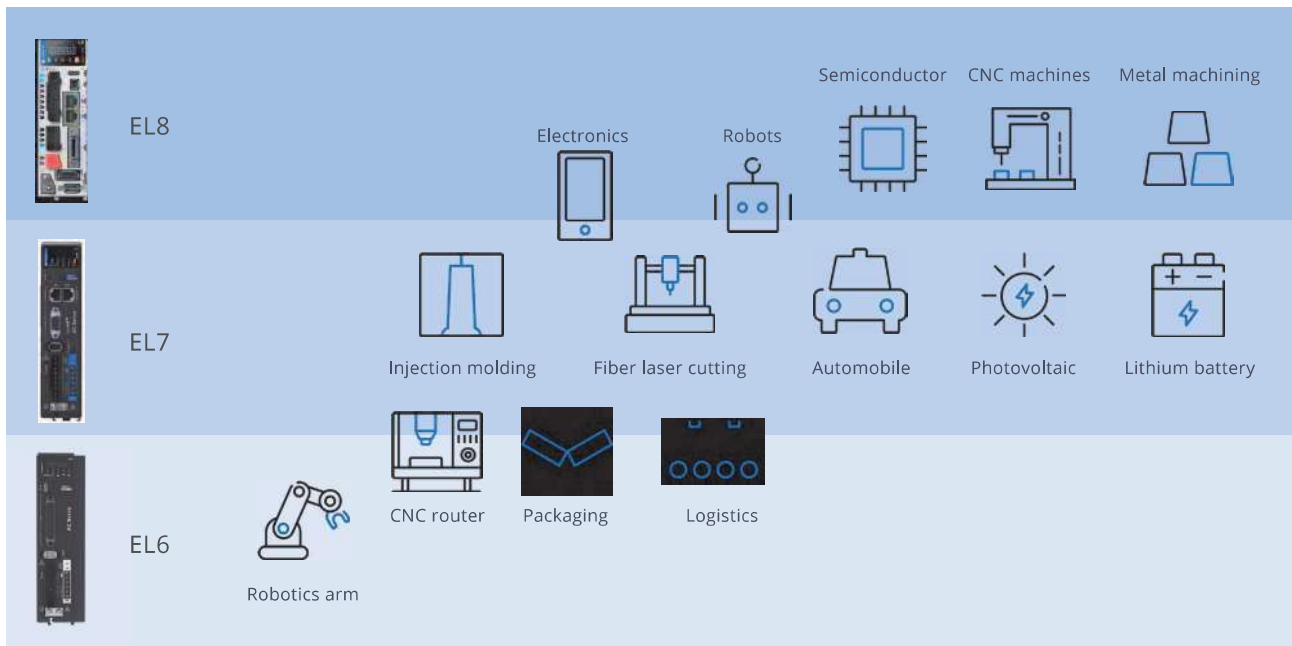


Leadshine Servo Product

Servo Drive Series



Typical Applications



Servo Drive	Model	Power (W)	Voltage (VAC)	Dimensions (mm)	Weight (kg)	Command Source			
						Pulse+Dir	Analog Input		
AC Servo Drive EL8 Series	EL8-EC400F	400	1 Phase/ 3 Phase 220	150*150*43	1		√		
	EL8-RS400F					√	√		
	EL8-EC750F	750		150*160*55	1.2	√	√		
	EL8-RS750F					√	√		
	EL8-EC1000F	1000		183*168*80	2	√	√		
	EL8-RS1000F					√	√		
	EL8-EC1500F	1500		175*156*40	0.	√	√		
	EL8-RS1500F					√	√		
	EL8-EC2000F	2000		175*156*50	9	√	√		
	EL8-RS2000F					√	√		
AC Servo Drive EL7-RS Series - 220VAC	EL7-RS400P	400	1 Phase 220	175*156*40	0.	√	√		
	EL7-RS750P	750				√	√		
	EL7-RS1000P	1000	1 Phase/ 3 Phase 220	175*156*80	1.	√	√		
	EL7-RS1500P	1500				√	√		
	EL7-RS2000P	2000				√	√		
	EL7-RS750PT	750				√	√		
AC Servo Drive EL7 Series - 400VAC	EL7-RS1000PT	1000	3 Phase 400	179*175*55	2.3	√	√		
	EL7-RS1500PT	1500				√	√		
	EL7-RS2000PT	2000				√	√		
	EL7-RS3000PT	3000				√	√		
	EL7-RS4400PT	4400		179*175*80	3.9	√	√		
	EL7-RS500PT	5500				√	√		
	EL7-RS7500PT	7500		230*250*90	3.3	√	√		
	EL7-RS11K0T	11000				√	√		
	EL7-RS15K0T	15000				√	√		
	EL7-RS18K5T	18500				√	√		
	EL7-RS22K0T	22000		280*170*180		√	√		
	EL7-RS22K0T	22000				√	√		
	AC Servo Drive EL7 Series - 220VAC	EL7-EC400N		400	1 Phase 220	175*156*40	0.9		
		EL7-EC750N		750					
		EL7-EC1000N		1000		175*156*50	1.2		
		EL7-EC1500N		1500					
EL7-EC2000N		2000	1 Phase/ 3 Phase 220	179*175*55	2.3				
4EL7-ECA05		400				230*200*90			
4EL7-ECA05		400							
4EL7-ECA05		750							
4EL7-ECA05		1000							
4EL7-ECA07		1000							
4EL7-ECA07		1000							
4EL7-ECA07		750							
4EL7-ECA07		750							
AC Servo Drive EL7 Series - 400VAC		EL7-EC750NT		1000	3 Phase 400	179*175*55	1.3		
	EL7-EC1000NT	1500							
	EL7-EC1500NT	2000	179*175*80	1.9					
	EL7-EC2000NT	3000							
	EL7-EC3000NT	4400	230*250*90	3.3					
	EL7-EC4400NT	5500							
	EL7-EC5500NT	7500							
	EL7-EC7500NT	11000	280*170*180						
	EL7-EC11K0T	15000							
	EL7-EC15K0T	18500							
	EL7-EC18K5T	22000							
EL7-EC22K0T	22000								
AC Servo Drive EL6 Series - 200VAC	EL6-RS400P	400	1 Phase 220	175*156*40	0.9	√			
	EL6-CAN400Z								
	EL6-RS750P			750	175*156*50	1.1	√		
	EL6-CAN750Z								
	EL6-RS1000P	1000		175*156*50	1.2	√			
	EL6-CAN1000Z								
	EL6-EC400	400		175*156*40					
	EL6-EC750	750							
	EL6-EC1000	1000		175*156*50					
	EL6-EC1500	1500							
	EL6-EC2000	2000		175*179*80					
	2EL6-EC400	400							
	2EL6-EC750	750		168*154*48					
	2EL6-EC1000	1000							
	2EL6-EC1500	1500		168*154*55					
2EL6-EC1500	1500								
			1 Phase/ 3 Phase 220	168*183*55					
				168*183*75					

CNC Router



Product Advantages:

- High torque servo motor with 3 times overloading capability
- 23-bit encoders with great impact resistant and harsh environment resistance
- Servo drive optimized for CNC router applications
- Comes with safety features such as Safe Torque Off and Dynamic Braking
- Servo Motors maximum torque ranging from 0.105Nm up to 119Nm

Fiber Laser Cutting



Product Advantages:

- Great Compatibility with renowned laser cutting controller from FScut, Weihong, Beckhoff, Empower, etc.
- Available with most mainstream communication protocols (EtherCAT, Modbus RTU, PROFINET)
- Accurate positioning of 0.02mm and precision up to 0.01mm
- Easy servo tuning features to assist users in setting up the servo systems
- Robust and compact servo motors with high dust- and waterproof ratings



EL8 Series

High End AC Servo Drives

EL8 Series AC Servo Drives are our latest high end servo drives which are packed with more new hardware and software features. This series of servo drive also comes with another version which combines analogue control, Modbus RTU protocol (RS485) and pulse + direction control into one. We added STO SIL3, analogue I/Os, holding brake port and EL8 series now supports a 2nd external encoder as well with our full closed loop control.



Robotic Arm



Precise Machining



Semiconductor



Electronics



Fiber Laser

Part Numbers

EL8 - EC 400 F

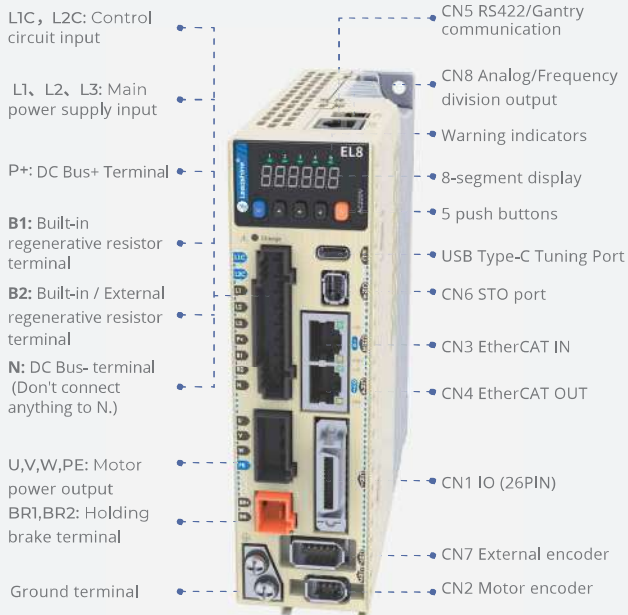
Series Num	
EL8	EL8 series

Command Source	
EC	EtherCAT
RS	Modbus RTU/ Analog Input/ Pulse +Direction

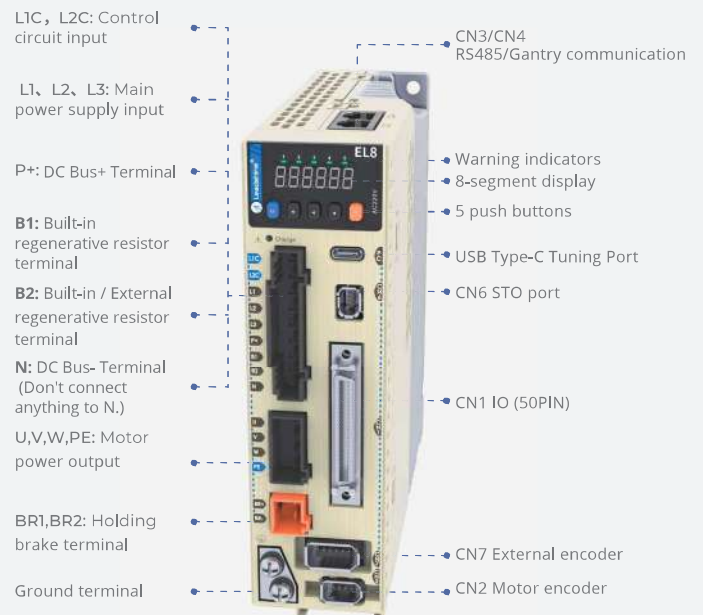
Version	
F	Full Functions

Version			
400	400W	750	750W
1000	1000W	1500	1500W
2000	2000W		

Ports & Connectors

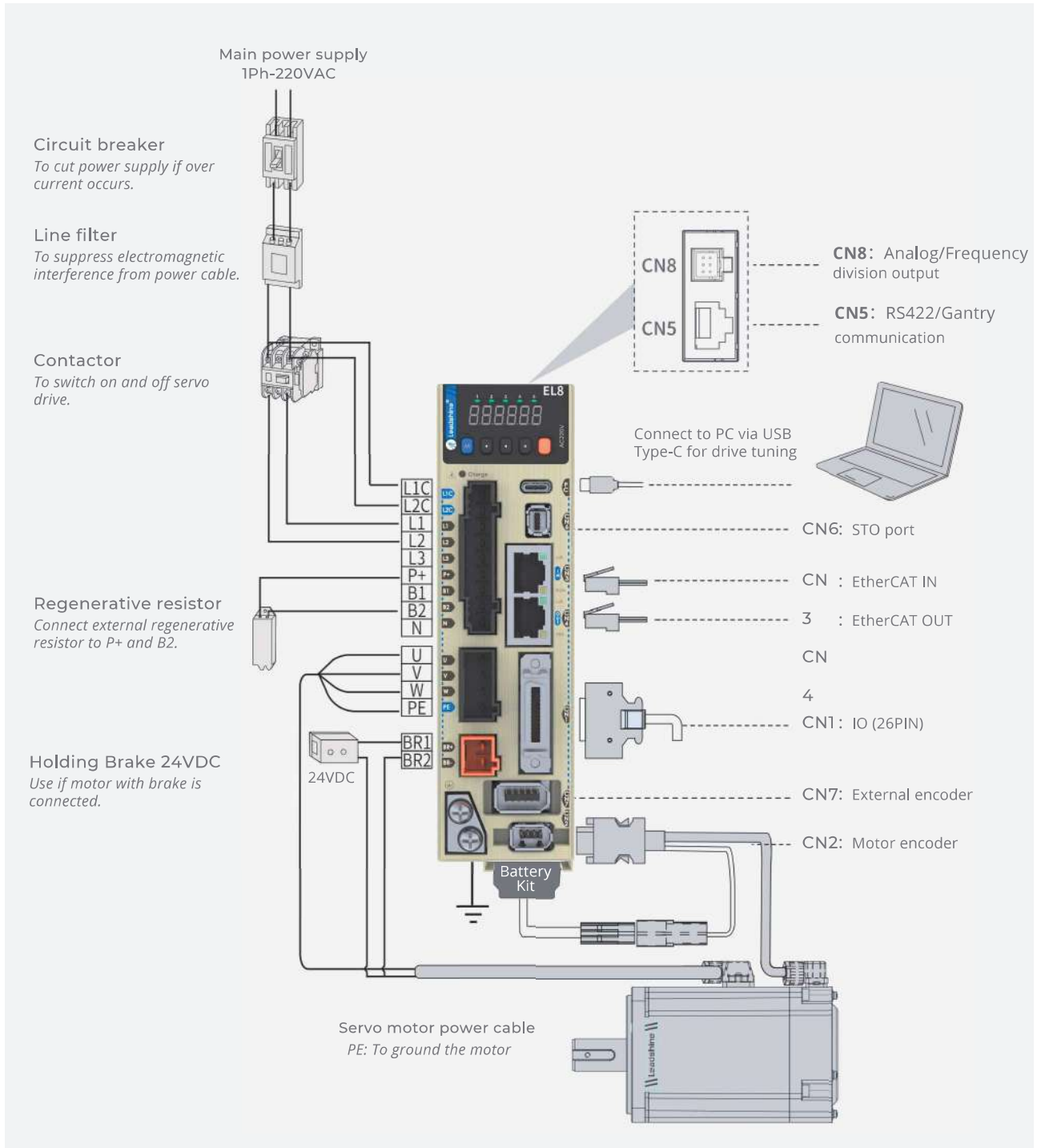


EL8 - EC Series



EL8 - RS Series

EL8-EC & Peripheral Wiring Diagram



Specifications

EL8 Series Drive	EL8-RS400F EL8-EC400F	EL8- RS750F EL8- EC750F	EL8- RS1000F EL8- EC1000F	EL8-RS1500F EL8-EC1500F	EL8-RS2000F EL8-EC2000F
Power Rating	400W	750W	1000W	1500W	2000W
Rated Current (A)	2.8	5.5	7.0	9.5	12
Peak Current (A)	9.3	16.9	21.2	31.1	36
Control Circuit Power Supply	1Ph AC 200V~240VAC, -10%~+10%, 50/60Hz				
Main Power Supply	1Ph/3Ph AC 200V~240VAC, -10%~+10%, 50/60Hz				
Dimension L*H*W (mm)	150*150*43	150*160*55		168*183*80	

EL8-EC	
Ports	Descriptions
Analog I/O	2 analog inputs (AI1/AI2), -10V~+10V, Max. voltage: ±12V,
	2 analog outputs (AO1/AO2), -10V~+10V,
Digital I/O	8 Digital Inputs (Supports common anode or cathode connection)
	3 Digital outputs (3 double-ended, DO1~DO3)
Safe Torque Off (STO)	Available for all EL8 series servo drives
External encoder	
Holding brake	Internal holding brake no need External relay
Frequency Division Output	Supports phase A/B/Z differential frequency division output Supports phase Z open collector frequency division output
Communication Port	EtherCAT protocol, RJ45 port
USB Type-C	Modify or read drive parameters without connecting to main power supply
Control Mode	
Position	Profile Position Mode (PP)
	Cyclic Synchronous Position Mode (CSP)
	Homing Mode (HM)
Velocity	Profile Velocity Mode (PV)
	Cyclic Synchronous Velocity Mode (CSV)
Torque	Profile Torque Mode (PT)
	Cyclic Synchronous Torque Mode (CST)



EL8-L Series

High End AC Servo Drives

EL8-L Series AC Servo Drives are our latest high end servo drives which now supports linear motors. This series of servo drive comes with EtherCAT control and another version which combines analogue control, Modbus RTU protocol (RS485) and pulse + direction control into one. We added STO SIL3, analogue I/Os, holding brake port and EL8 series now supports a 2nd external encoder for optical/magnetic scale feedback of a linear motor.



Machine tools



Electronics



Renewable energy



Fiber laser



Semiconductor

Part Numbers

EL8 - EC 030 L

Series Num	
EL8	EL8 series

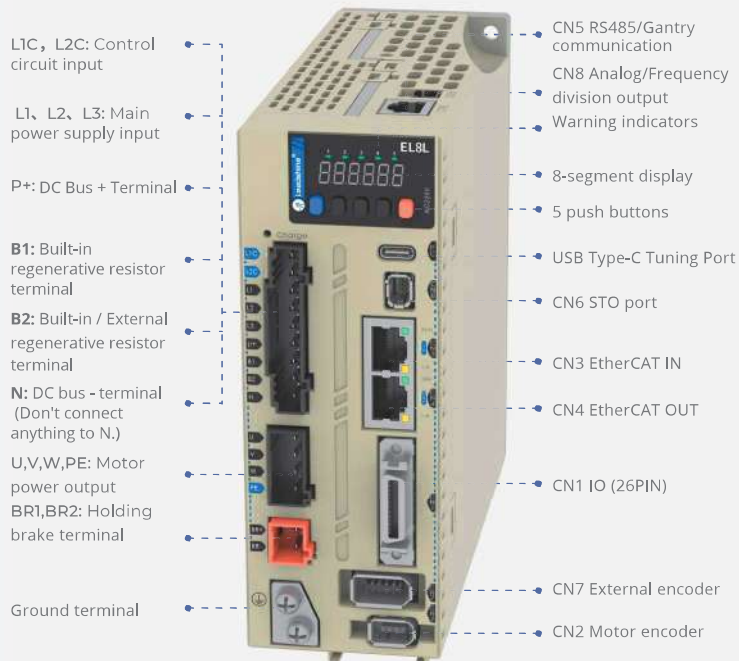
Command Source	
EC	EtherCAT
RS	Modbus RTU/ Pulse +Direction

Version	
L	Linear Drive

Rated Current			
030	3.0Arms	045	4.5Arm
060	6.0Arms	080	s
130	13.0Arms		8.0Arm

s

Ports & Connectors



Specifications

o 1-Phase/3-Phase 200-240VAC, 50/60Hz

Drive Models	Rated Current (Arms)	Peak Current (Arms)	Dimension (L*H*W mm)
EL8-RS030L	3.0	9.3	150*150*43
EL8-EC030L			
EL8-RS045L	4.5	18.5	160*150*55
EL8-EC045L			
EL8-RS060L	6.0	21.0	
EL8-EC060L			
EL8-RS080L	8.0	28.0	183*168*80
EL8-EC080L			
EL8-RS130L	13.0	36.0	
EL8-EC130L			



EtherCAT®

Modbus

PROFINET®



EL7-EC/RS/PN (400W-7.5kW) Series

General Purpose AC Servo Drives

EL7-EC/RS/PN (400W-7.5kW) Series AC servo products are high performance AC digital servo which is designed for position/velocity/torque high accurate control with power rating ranging up to 2kW for 220VAC models and 7.5kW for 400VAC models which provides a perfect solution for different applications with easy tuning process.

This drive series supports automatic inertia ratio identification, vibration suppression and automatic/manual gain settings. It also comes with Safe Torque Off (STO) of SIL3 grading and matching regenerative resistor.

EL7-RS/EC/PN (400W-7.5kW) Series AC Servo Drive supports Modbus communication protocol in addition to analogue and pulse + direction input control, EtherCAT, Profinet.



CNC router



Fiber laser



Electronics



Semiconductor



Renewable energy

Part Numbers

EL7 - EC 750 P T

Series Num	
EL7	EL7 series

Command Source	
EC	EtherCAT
RS	Modbus RTU/ Analog Input/ Pulse +Direction
PN	Profinet

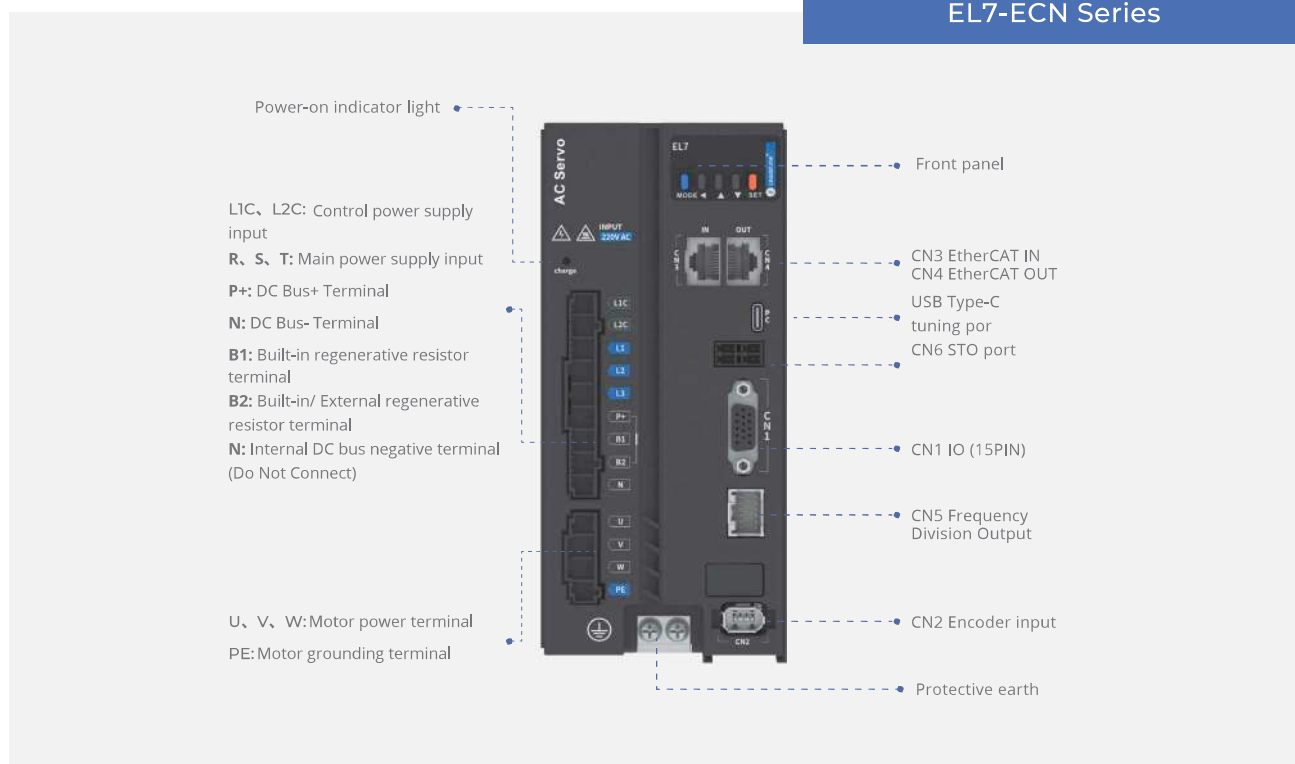
Voltage	
Blank	220VAC
T	400VAC

Version	
P	Full functions without STO
N	Full function including CE, STO, UL* Certifications

Rated Power			
400	400W	750	750W
1000	1000W	1500	1500W
2000	2000W	3000	3000W
4400	4400W	5500	5500W
7500	7500W		

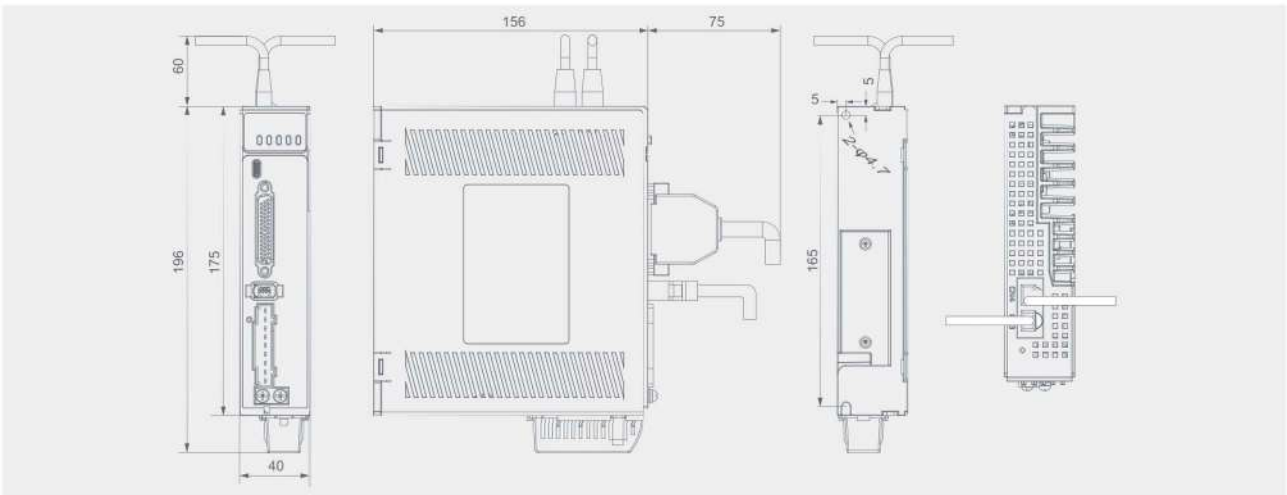
Ports & Connectors

EL7-ECN Series



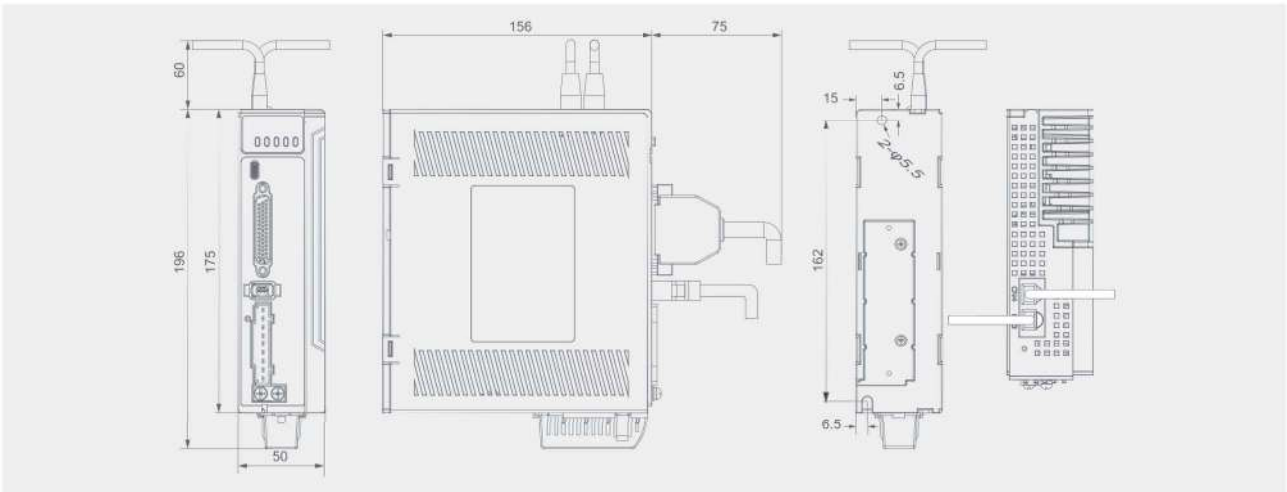
400W (AC 220V)

Unit: mm



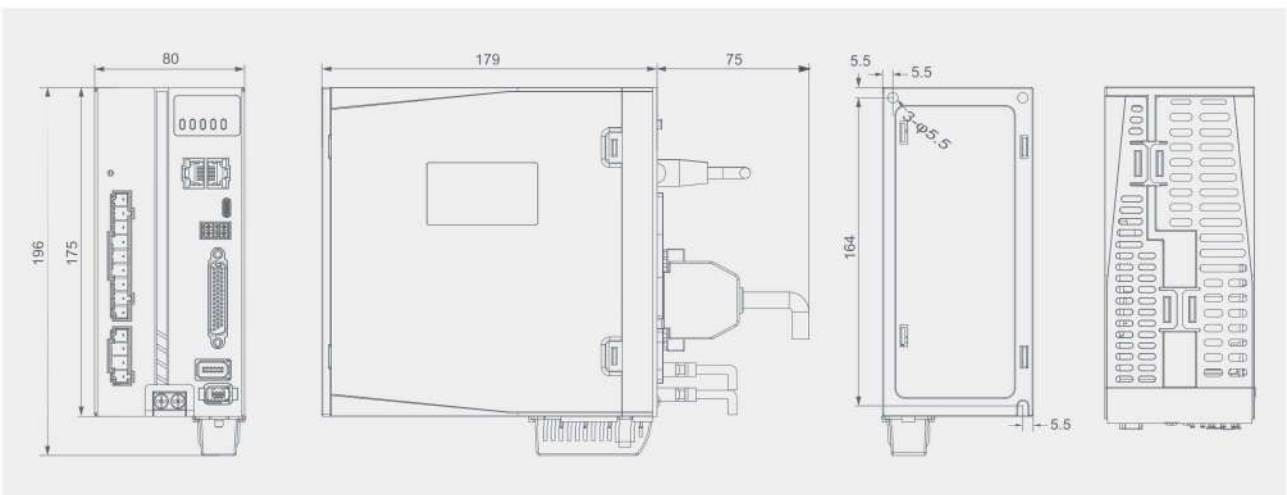
750W/1000W (AC 220V)

Unit: mm

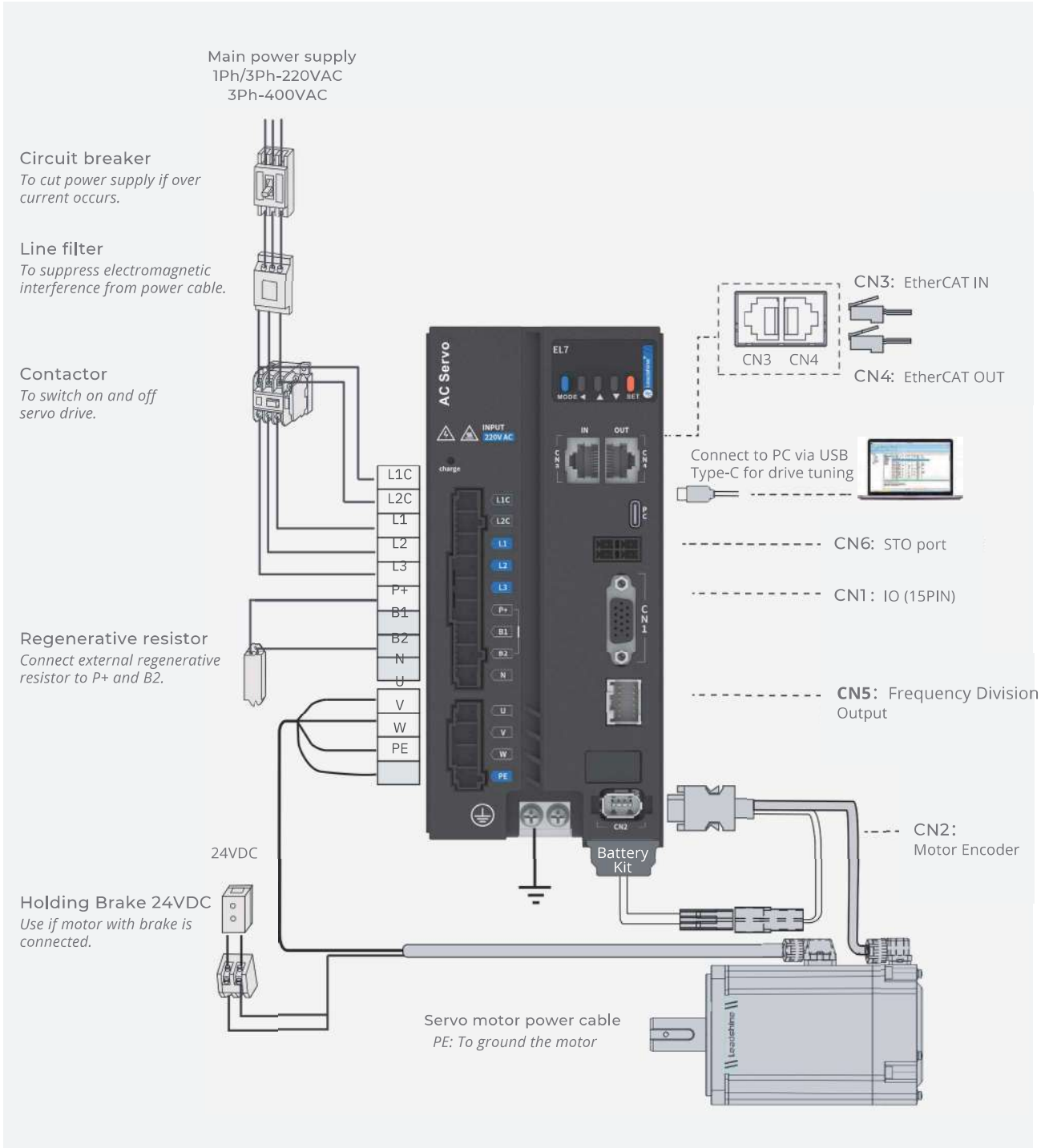


1500W/2000W (AC 220V)

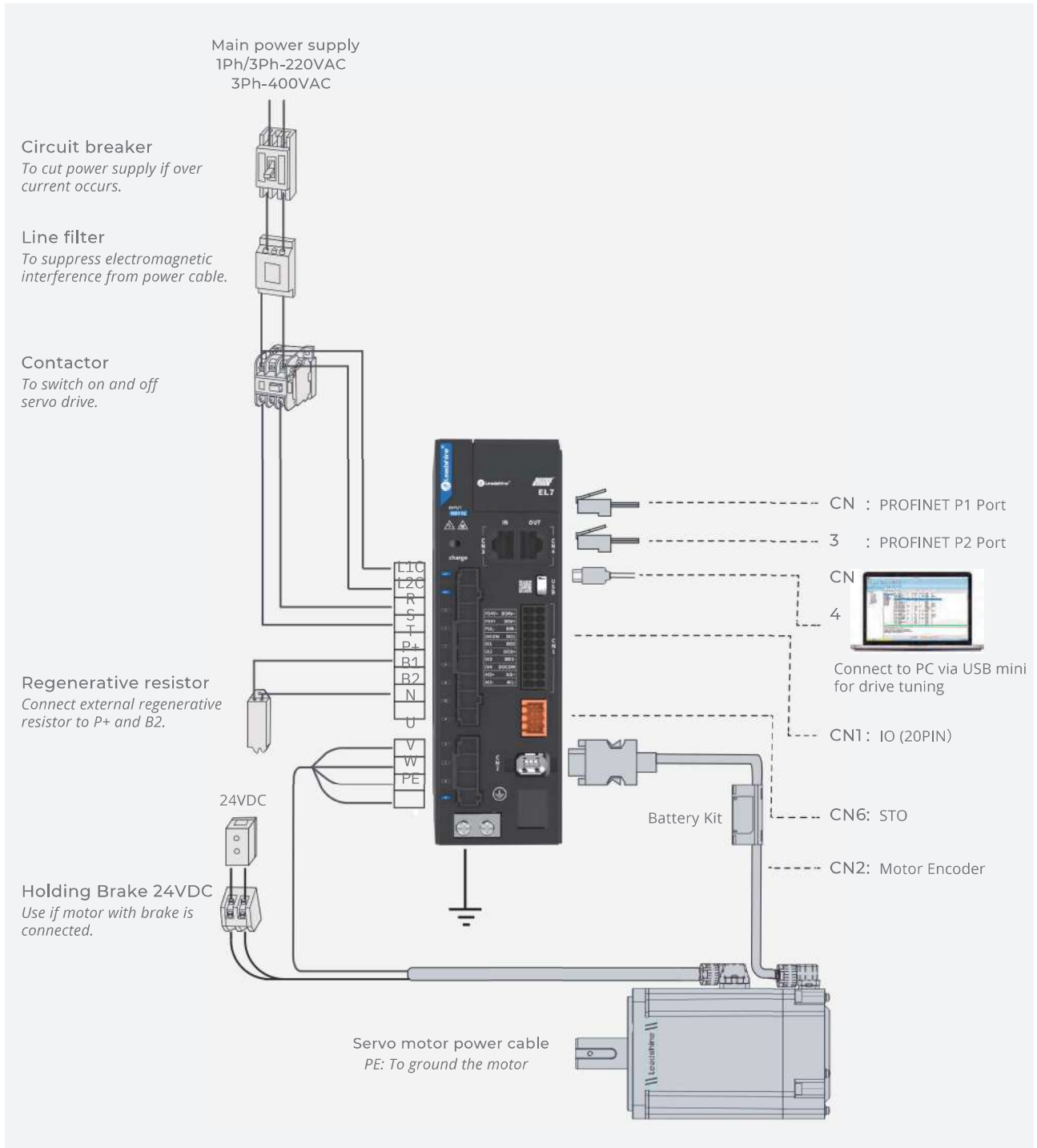
Unit: mm



EL7-ECN & Peripheral Wiring Diagram



EL7-PN & Peripheral Wiring Diagram



EL7-ECN	
Ports	Descriptions
USB Type-C Tuning	Modify or read drive parameters without connecting to main power supply
Frequency Division Output	Supports phase A/B/Z differential frequency division output Supports phase Z open collector frequency division output
Digital I/O	4 Digital Inputs (Supports common anode or cathode connection) DI1,DI2,DI3,DI6 3 digital outputs (double-ended) DO1~DO3
Communication Port	EtherCAT, RTU protocol (RJ45 port)
Control Mode	
Position	Profile Position Mode (PP)
	Cyclic Synchronous Position Mode (CSP)
	Homing Mode (HM)
Velocity	Profile Velocity Mode (PV)
	Cyclic Synchronous Velocity Mode (CSV)
Torque	Profile Torque Mode (PT)
	Cyclic Synchronous Torque Mode (CST)

EL7-RS	
Ports	Descriptions
USB Type-C Tuning	Modify or read drive parameters without connecting to main power supply
Low-speed pulse input	5V differential signal, 0-500kHz 24V single ended signal, 0-200kHz
High-speed pulse input	5V differential signal, 0-4MHz
Frequency Division Output	Supports phase A/B/Z differential frequency division output Supports phase Z open collector frequency division output
Analog I/O	2 analog inputs (AI1/AI3), -10V~+10V, Max. voltage: ±12V 1 analog output (AO1), -10V~+10V
Digital I/O	8 Digital Inputs (Supports common anode or cathode connection) DI1~DI8 5 digital outputs (double-ended) DO1~DO5
Communication Port	RS485 communication, Modbus RTU protocol (RJ45 port)
Control Mode	
Control	1. External pulse train position control, 2. JOG control, 3. Velocity control, 4. Torque control, 5. Hybrid control: Position-Torque/Position-Velocity/Velocity-Torque,

EL7-PN	
Ports	Descriptions
USB mini Tuning	Modify or read drive parameters with connecting to main power supply
Frequency Division Output	Supports phase A/B/Z differential frequency division output Supports phase Z open collector frequency division output
Digital I/O	6 Digital Inputs (Supports common anode or cathode connection) DI1~DI8 3 digital outputs (double-ended) DO1~DO5
Communication Port	PROFINET protocol (RJ45 port)
Control Mode	
Supported Telegram	Telegram 1/2/3/110/111/102/105



EL7-EC/RS (11-22kW) Series

General Purpose AC Servo Drives

The EL7 high power servo drive can provide the power in the range of 11~22kw. Frequency response is up to 2.0kHz. In particular, it supports gantry synchronisation and PTC temperature detection compared to lower power servo drives of the same series.



Machine Tools



Logistics



Packaging

Part Numbers

EL7 - EC 11K0 N T

Series Num	
EL7	EL7 series

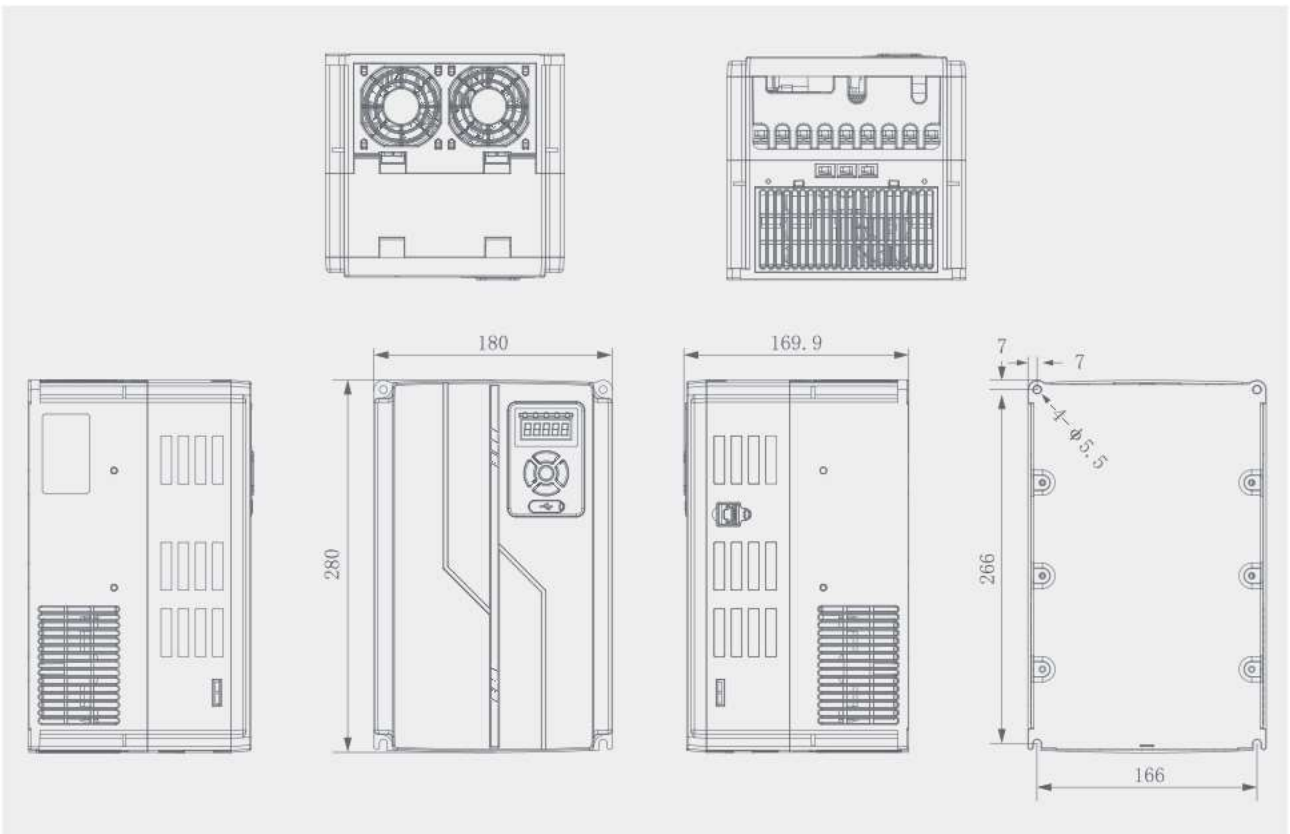
Command Source	
EC	EtherCAT
RS	Modbus RTU/ Analog Input/ Pulse +Direction

Voltage	
Blank	220V
T	400V

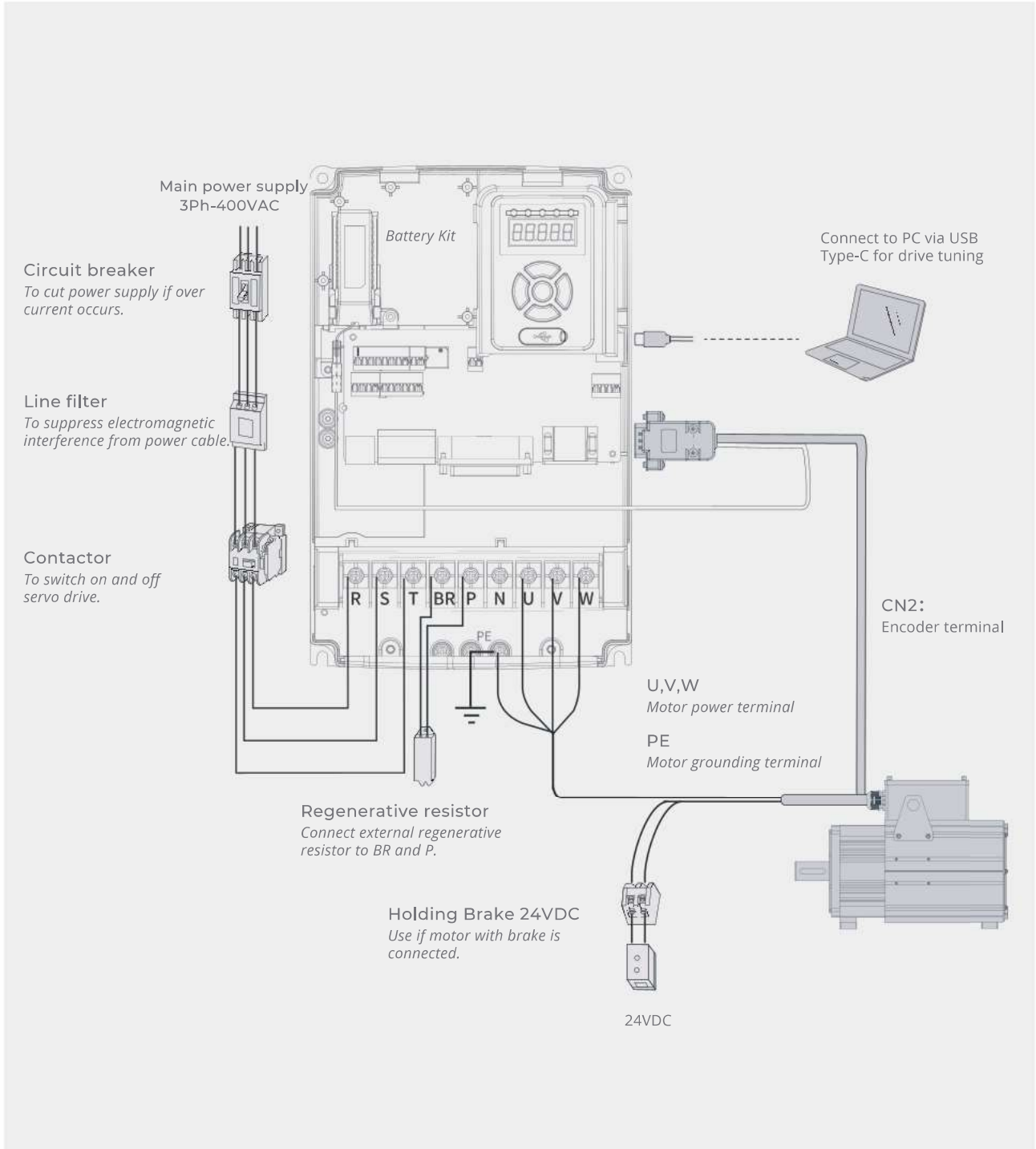
Version	
N	Full function including CE, STO, UL* Certifications

Rated Power	
11K0	11KW
15K0	15KW
18K5	18.5KW
22K0	22KW

EL7-EC/RS (11-22kW) Series



EL7-EC/RS (11-22kW) & Peripheral Wiring Diagram



Specifications

EL7 (11-22kW) series	EL7-RS11K0T EL7-EC11K0T	EL7-RS15K0T EL7-EC15K0T	EL7-RS18K5T EL7-EC18K5T	EL7-RS22K0T EL7-EC22K0T
Rated Power	11KW	15KW	18.5KW	22KW
Rated Input Current (Arms)	29	36	42	48
Rated Output Current (Arms)	25	32	37	44
Peak Output Current (Arms)	42.5	54.4	62.9	74.8
Main Power Supply	3Ph AC 380~480V, -15~+10%, 50/60Hz			
Dimension L*H*W (mm)	280*170*180			
Regenerative Resistor	No built-in braking resistor			

EL7-RS (11-22kW)	
Ports	Descriptions
STO	2 STO safety circuits
USB Type-C Tuning	Modify or read drive parameters without connecting to main power supply
Frequency Division Output	Supports phase A/B/Z differential frequency division output Supports phase Z open collector frequency division output
Digital I/O	8 Digital Inputs (Supports common anode or cathode connection) DI1~DI8 5 digital outputs (double-ended) DO1~DO5
Analogue Input	4 AI(AI1~AI4): 2 voltage inputs, input range $\pm 10V$ 2 optional voltage/current inputs, input range 0~10V/0~20mA Maximum allowable voltage: $\pm 12V$
Analogue Output	2 AO(AO1/AO2), output range: 0~10V
Communication Port	RS485 (RJ45 interface)

EL7-EC (11-22kW)	
Ports	Descriptions
STO	2 STO safety circuits
USB Type-C Tuning	Modify or read drive parameters without connecting to main power supply
Frequency Division Output	Supports phase A/B/Z differential frequency division output Supports phase Z open collector frequency division output
Digital I/O	8 Digital Inputs (Supports common anode or cathode connection) DI1~DI8 5 digital outputs (double-ended) DO1~DO5 2 sets Probe Function Input
Communication Port	EtherCAT (RJ45 interface)
Analogue Input	4 AI(AI1~AI4): 2 voltage inputs, input range $\pm 10V$ 2 optional voltage/current inputs, input range 0~10V/0~20mA Maximum allowable voltage: $\pm 12V$
Analogue Output	2 AO(AO1/AO2), output range: 0~10V
Communication Port	RS485 (RJ45 interface)

4EL7-EC Series

4 Axes Drive



4 EL7 - EC A05 □

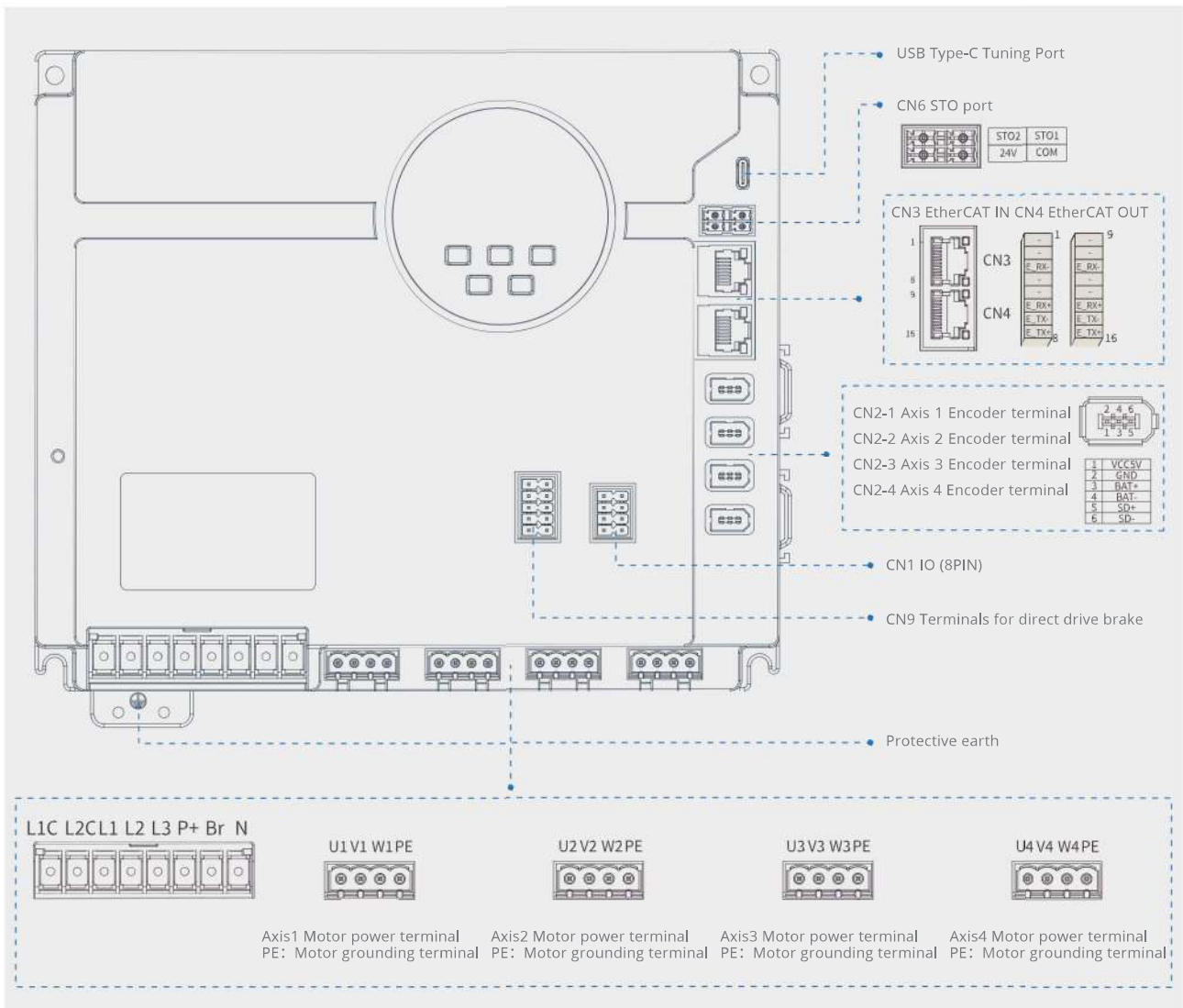
Axes	
2	2
4	axis

Series Num	
EL7	EL7 Series

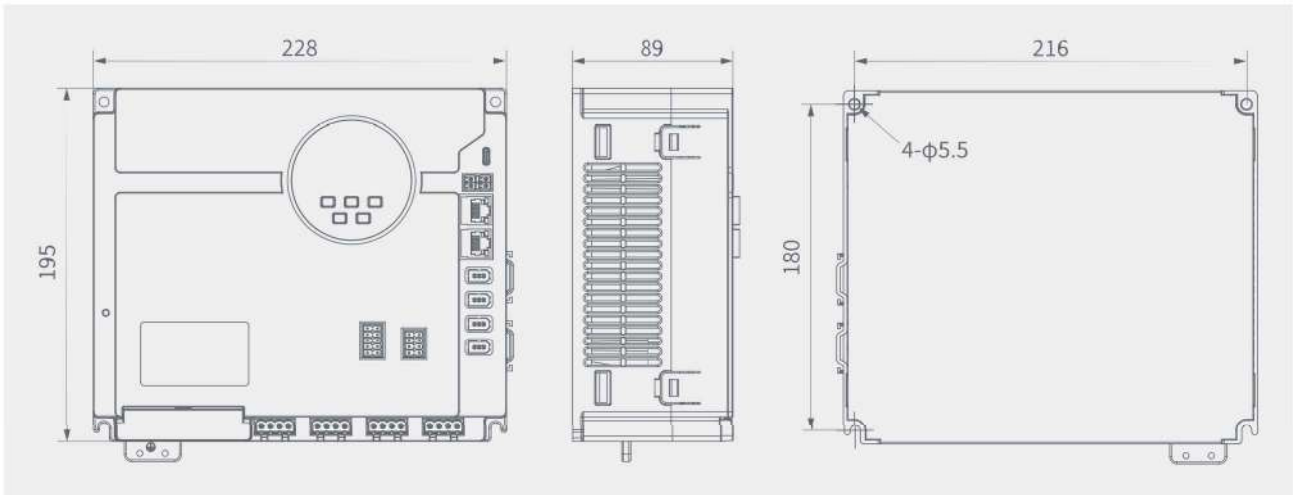
Command Source	
EC	EtherCAT

Voltage	
Blank	220V
T	400V

Maximum uniaxial current	
04	4A
05	5A
07	7A



4EL7-EC Series



Specifications

o 4EL7-EC 220V Models

4EL7-EC series	4EL7-ECA05				4EL7-ECA07			
Rated Power	750W	400W	400W	400W	1000W	1000W	1000W	750W
Rated Current (Arms)	4.3	2.5	2.5	2.5	6.8	6.8	6.8	4.3
Peak Current (Arms)	16.6	9.3	9.3	9.3	20.4	20.4	20.4	16.1
Main Power Supply	1Ph /3Ph 200~240V, -10%~+10%, 50/60Hz,				1Ph /3Ph 200~240V, -10%~+10%, 50/60Hz,			
Control Circuit Power Supply	1Ph 200~240V, -10%~+10%, 50/60Hz,				1Ph 200~240V, -10%~+10%, 50/60Hz,			
Dimension L*H*W (mm)	230*200*90							

o 4EL7-EC 400V Models

4EL7-EC series	4EL7-ECA04T				4EL7-ECA05T			
Rated Power	1000W	1000W	1000W	750W	1000W	1500W	1500W	1000W
Rated Current (Arms)	3.5	3.5	3.5	2.7	3.5	4.6	4.6	3.5
Peak Current (Arms)	10.6	10.6	10.6	8.6	10.6	13.8	13.8	10.6
Main Power Supply	3Ph AC 380V~440V, -10%~+10%, 50/60Hz,				3Ph AC 380V~440V, -10%~+10%, 50/60Hz,			
Control Circuit Power Supply	3Ph AC 380V~440V, -10%~+10%, 50/60Hz,				3Ph AC 380V~440V, -10%~+10%, 50/60Hz,			
Dimension L*H*W (mm)	230*200*90							



EL6-EC Series

Economical AC Servo Drives

EL6 Series include cost-effective AC servo drives designed for accurate positioning control. They can power up to 2kW AC servo motors and are ideal for many OEM applications. Many advanced features are implemented such as MFC, vibration suppression, Multi - mode filter function, etc.

When combined with Leadshine servo motors with 17 or 23-bit high resolution encoders, they can provide excellent performance to your control systems.



Logistics



Packaging



lithium battery



Photovoltaic

Part Numbers

EL6 - EC 400 □ □

Series Num	
EL6	EL6 series

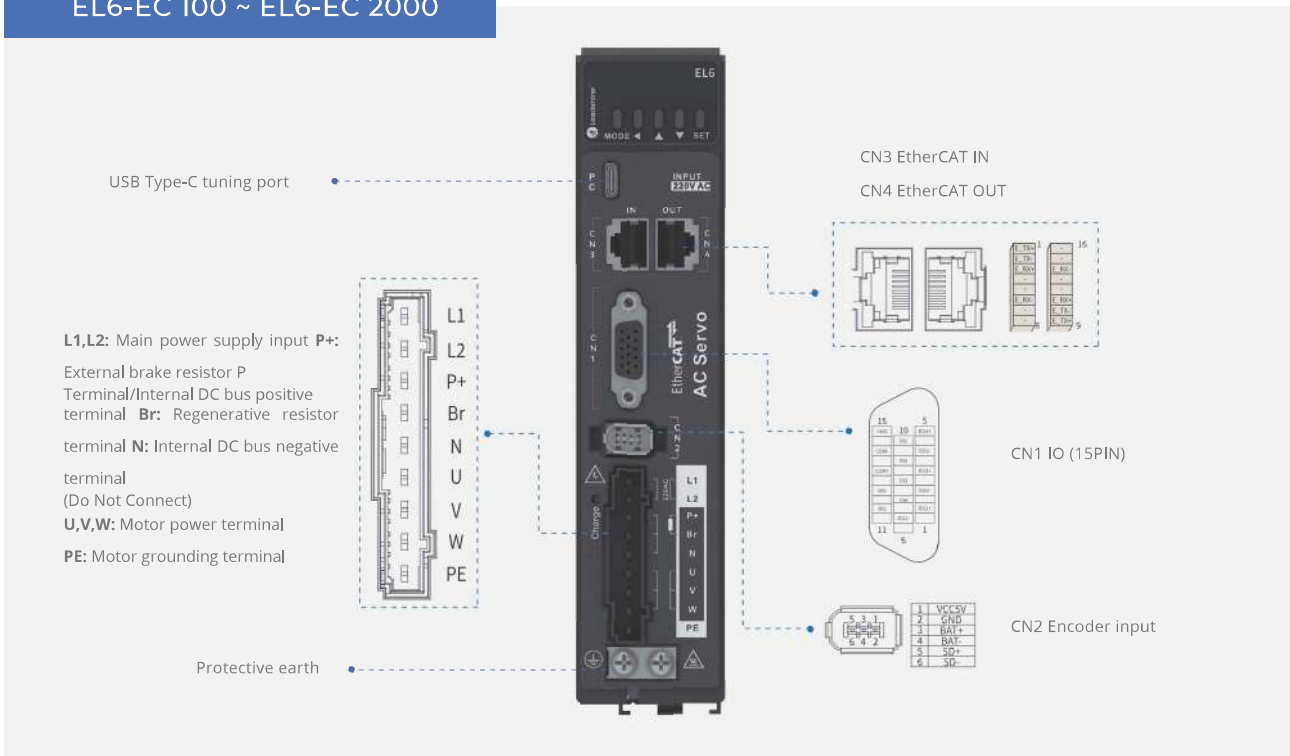
Command Source	
EC	EtherCAT

Rated Power	
400	400W
750	750W
1000	1000W
1500	1500W
2000	2000W

Voltage	
Blank	220V
T	400V

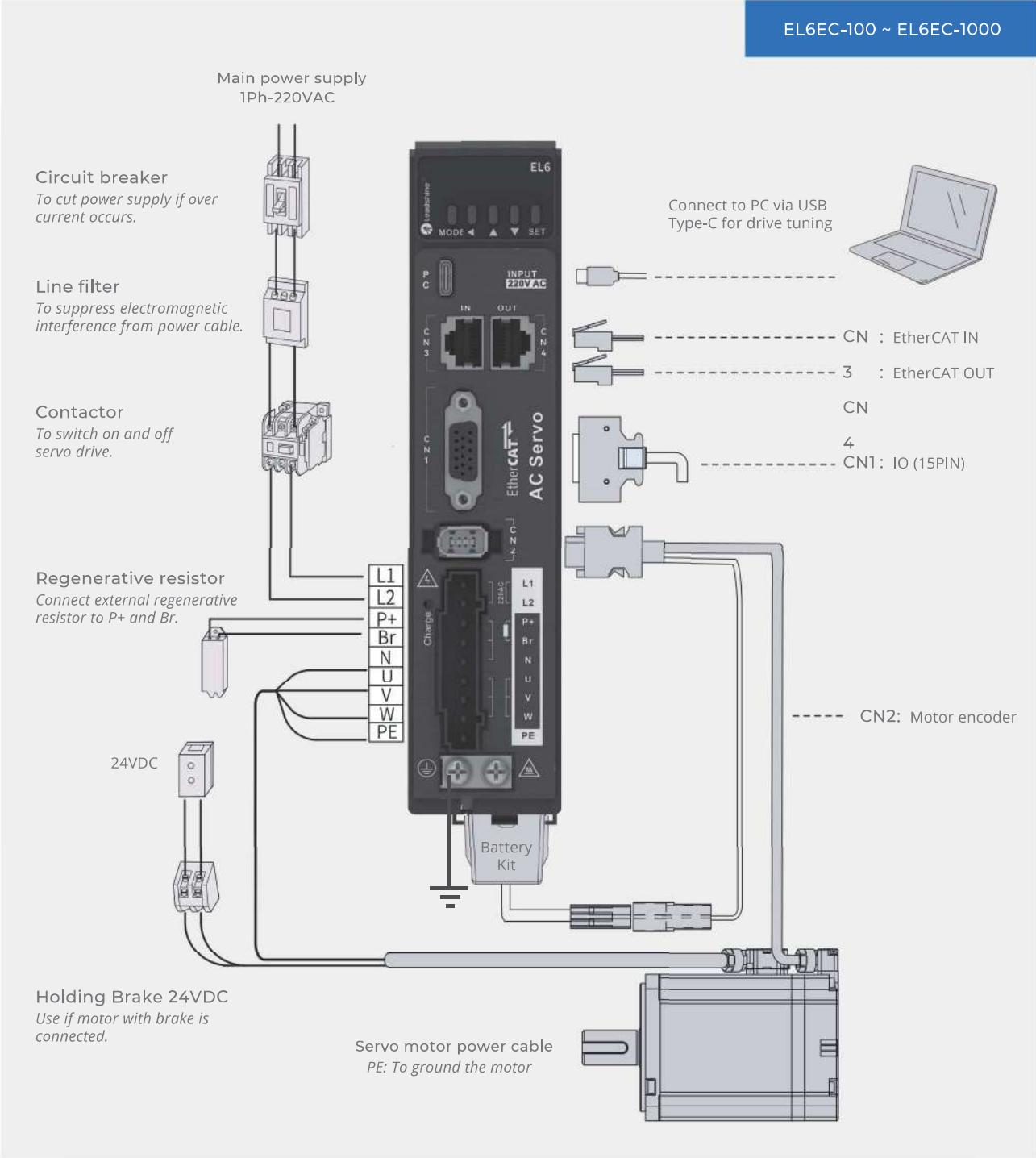
Version	
Blank	Standard Version

EL6-EC 100 ~ EL6-EC 2000



EL6-EC & Peripheral Wiring Diagram

EL6EC-100 ~ EL6EC-1000





2EL6-EC Series

General Purpose EtherCAT AC Servo Drives

2EL6-EC Series AC servo products are high performance economical AC digital servo which is designed for position/velocity/torque high accurate control with power rating ranging up to 1.5kW for 220VAC and 400VAC models which provides a perfect solution for different applications with easy tuning process.



Logistics



Packaging

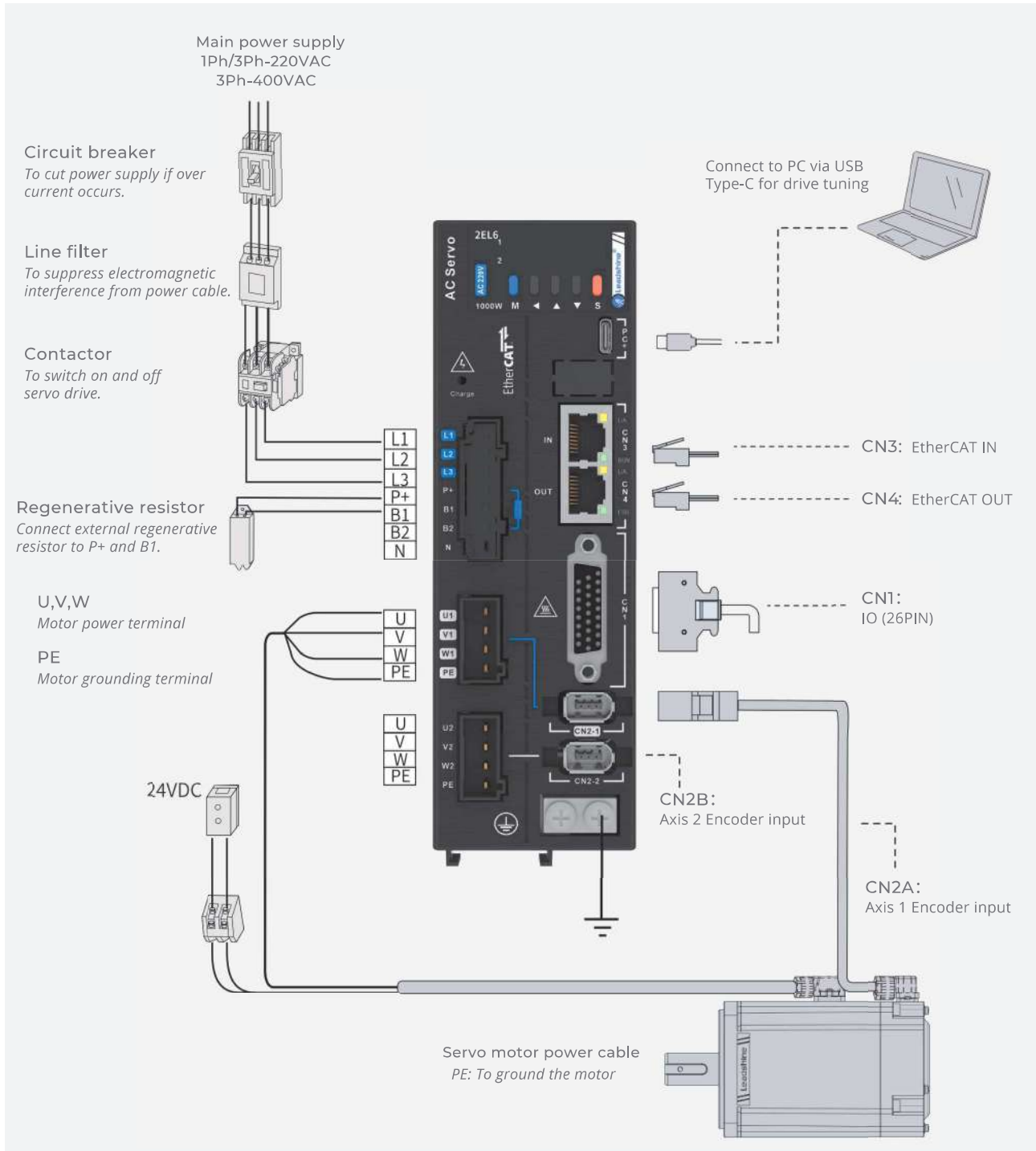


lithium battery

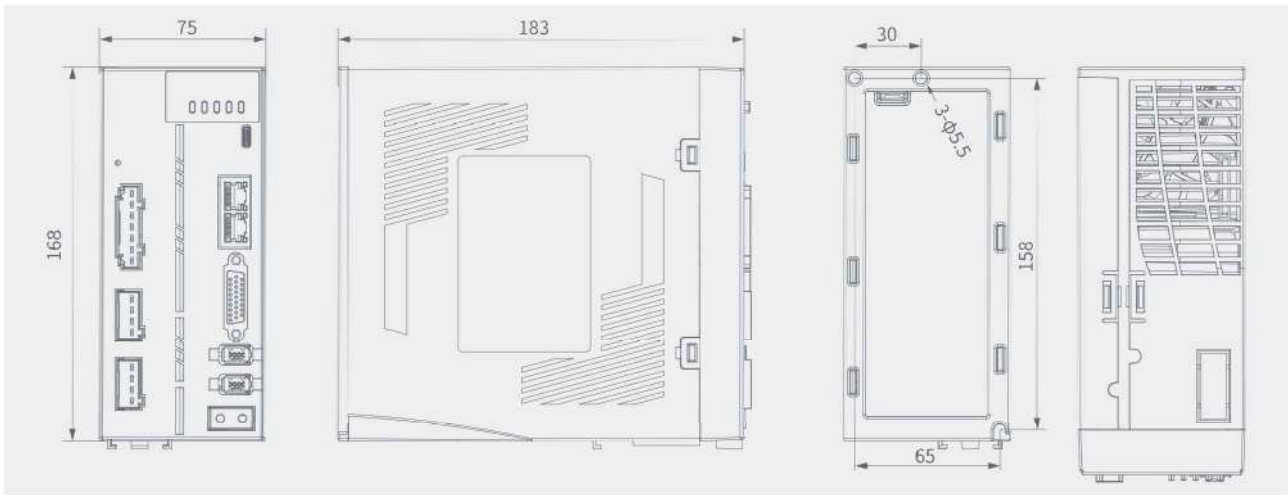


Photovoltaic

2EL6-EC & Peripheral Wiring Diagram



1500W (AC 220V)



Specifications

o 2EL6-EC 220V Models

2EL6-EC series		2EL6-EC400	2EL6-EC750	2EL6-EC1000	2EL6-EC1500
Rated Power		400W	750W	1000W	1500W
Rated Current (Arms)		2.5	4.3	6.8	8.5
Peak Current (Arms)		9.1	16.1	21	24.2
Control circuit power supply		1Ph AC 200V~240V, -10%~+10%, 50/60Hz,			1Ph /3Ph AC 200V~240V, -10%~+10%, 50/60Hz,
Main power supply		1Ph AC 200V~240V, -10%~+10%, 50/60Hz,			1Ph /3Ph AC 200V~240V, -10%~+10%, 50/60Hz,
Regenerative Resistor	Resistance Value (Ω)	None	40	40	40
	Resistance Power (W)		80	80	80
Dimension H*L*W (mm)		168*154*48	168*154*55	168*183*55	168*183*75

Ports	Descriptions
USB Type-C Tuning	Modify or read drive parameters without connecting to main power supply
Digital I/O	Axis 1: DI1,DI3,DI5,DI7(probe inputs) DO: DO1,DO3
	Axis 2: DI2,DI4,DI6,DI8(probe inputs) DO: DO2,DO4
	DI4/DI5 probe inputs
Communication Port	EtherCAT (RJ45 interface)



EL6-RS Series

Economical AC Servo Drives

EL6 Series include cost-effective AC servo drives designed for accurate positioning control. They can power up to 1kW AC servo motors and are ideal for many OEM applications. Many advanced features are implemented such as MFC, vibration suppression, Multi - mode filter function, etc.

When combined with Leadshine servo motors with 17 or 23-bit high resolution encoders, they can provide excellent performance to your control systems.



Logistics



Packaging



lithium battery



Photovoltaic

Part Numbers

EL6 - RS 750 P

Series Num	
EL6	EL6 series

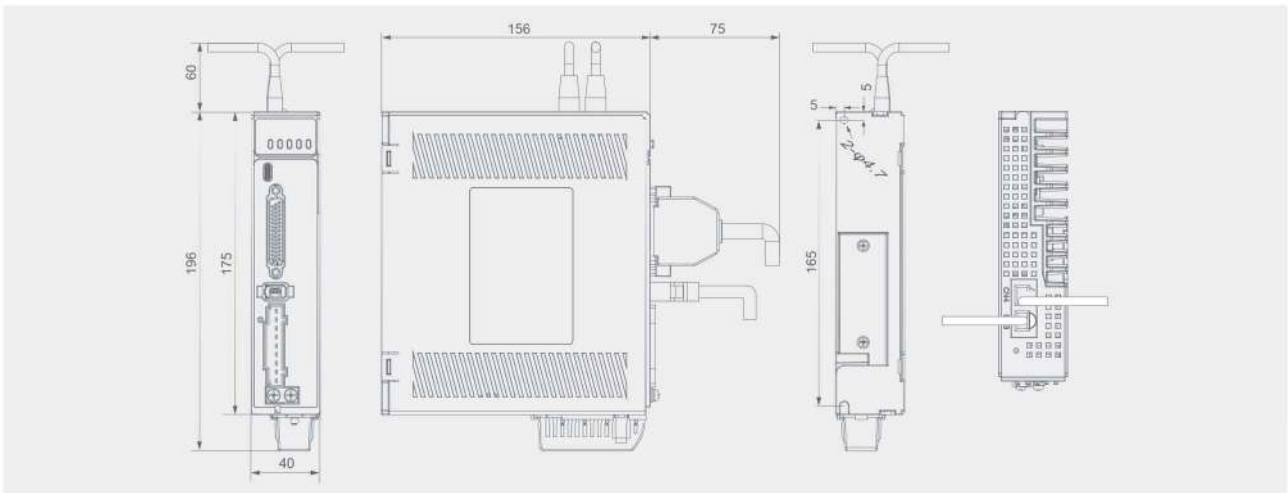
Command Source	
RS	Modbus RTU/ Pulse +Direction

Version	
P	Full functions without STO

Rated Power	
400	400W
750	750W
1000	1000W

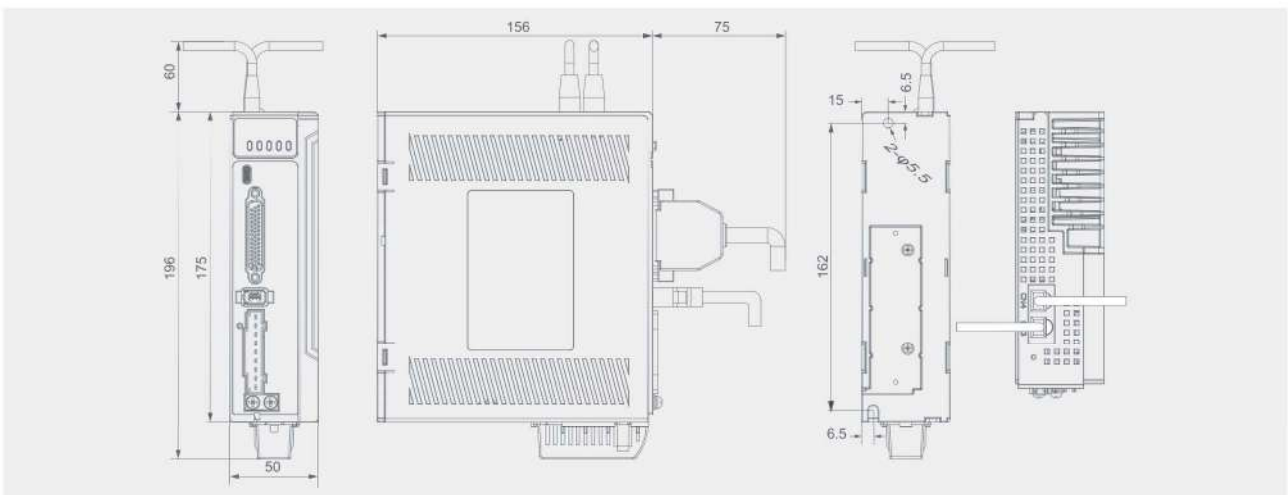
400W (AC 220V)

Unit: mm



750W/1000W (AC 220V)

Unit: mm



Specifications

o EL6-RS 220V Models

EL6-RSP Series Drive	EL6-RS400P	EL6-RS750P	EL6-RS1000P
Power Rating	400W	750W	1000W
Rated Current (Arms)	3.5	5.5	7.0
Peak Current (Arms)	9.5	16.6	21
Control circuit power supply	1Ph AC 200V-240V, -10% - +10%, 50/60Hz		
Main power supply			
Dimension L*H*W (mm)	175*156*40	175*156*50	

Ports	Descriptions
USB Type-C Tuning	Modify or read drive parameters without connecting to main power supply
Low-speed pulse input	5V differential signal, 0-500kHz 24V single ended signal, 0-200kHz 5V differential signal, 0-4MHz
High-speed pulse input	Supports phase A/B/Z differential frequency division output Supports phase Z open collector frequency division output
Frequency Division Output	8 Digital Inputs (Supports common anode or cathode connection) DI1~DI8
Digital I/O	5 digital outputs (double-ended) DO1~DO5 RS485 communication, Modbus RTU protocol (RJ45 port)
Communication Port	
Control Mode	
Control	1. External pulse train position control 2. JOG control 3. Velocity control 4. Torque control 5. Hybrid control: Position-Torque/Position-Velocity/Velocity-Torque
Control Features	
Drive Mode	IGBT SVPWM sinusoidal wave drive
Feedback Method	Encoder: RS485 Protocol
Easy-to-use	One-click tuning, Single parameter tuning, Black box, Zero tracking control
Notch Filter	Mechanical resonance suppression. Supports up to 3 filters, 50Hz~4000Hz
Vibration suppression	End vibration suppression
Alarm	Overcurrent. Overvoltage. Undervoltage. Overheat. Overload. Overtravel. Main power input phase loss. Regenerative resistor error. Position deviation error. Encoder feedback error. Excessive braking rate. EEPROM error



EL6-CAN Series

Economical AC Servo Drives

EL6-CAN Series is cost-effective AC servo drives of CANopen protocol designed for accurate control. They can power to 1kW AC servo motors and are ideal for many OEM applications. Many advanced features are implemented such as MFC, vibration suppression, multi filter functions, etc.

When combined with Leadshine servo motors with 17-bit or 23-bit high resolution encoder, they can provide excellent performance to your control systems.



Logistics



Packaging



lithium battery



Photovoltaic

Part Numbers

EL6 - CAN 400 Z

Series Num	
EL6	EL6 servo drive series

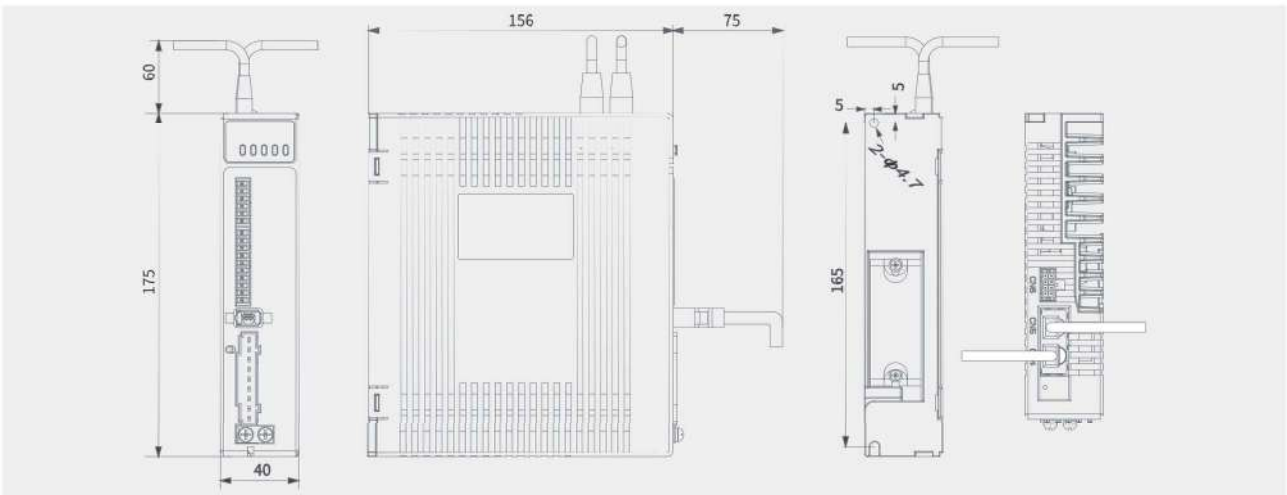
Command Source	
CAN	CANopen

Version	
Z	Standard Version

Rated Power	
400	400W
750	750W
1000	1000W

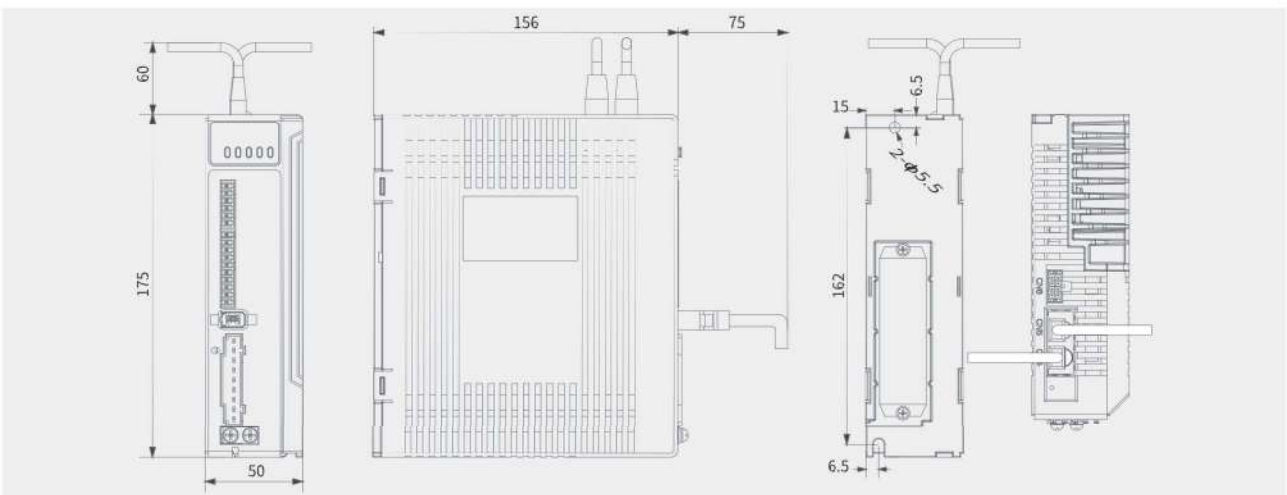
400W (AC 220V)

Unit: mm



750W/1000W (AC 220V)

Unit: mm





ELM1/ELM2 Series

AC Servo Motors

Feature:

Power rating: 30W-22kW

Voltage: 220VAC/400VAC

Encoder: 23-bit encoder

Optional accessory: brake

Frame size: 25mm,40mm,60mm,80mm,100mm,130mm,180mm,200mm.

o ELM1 Series

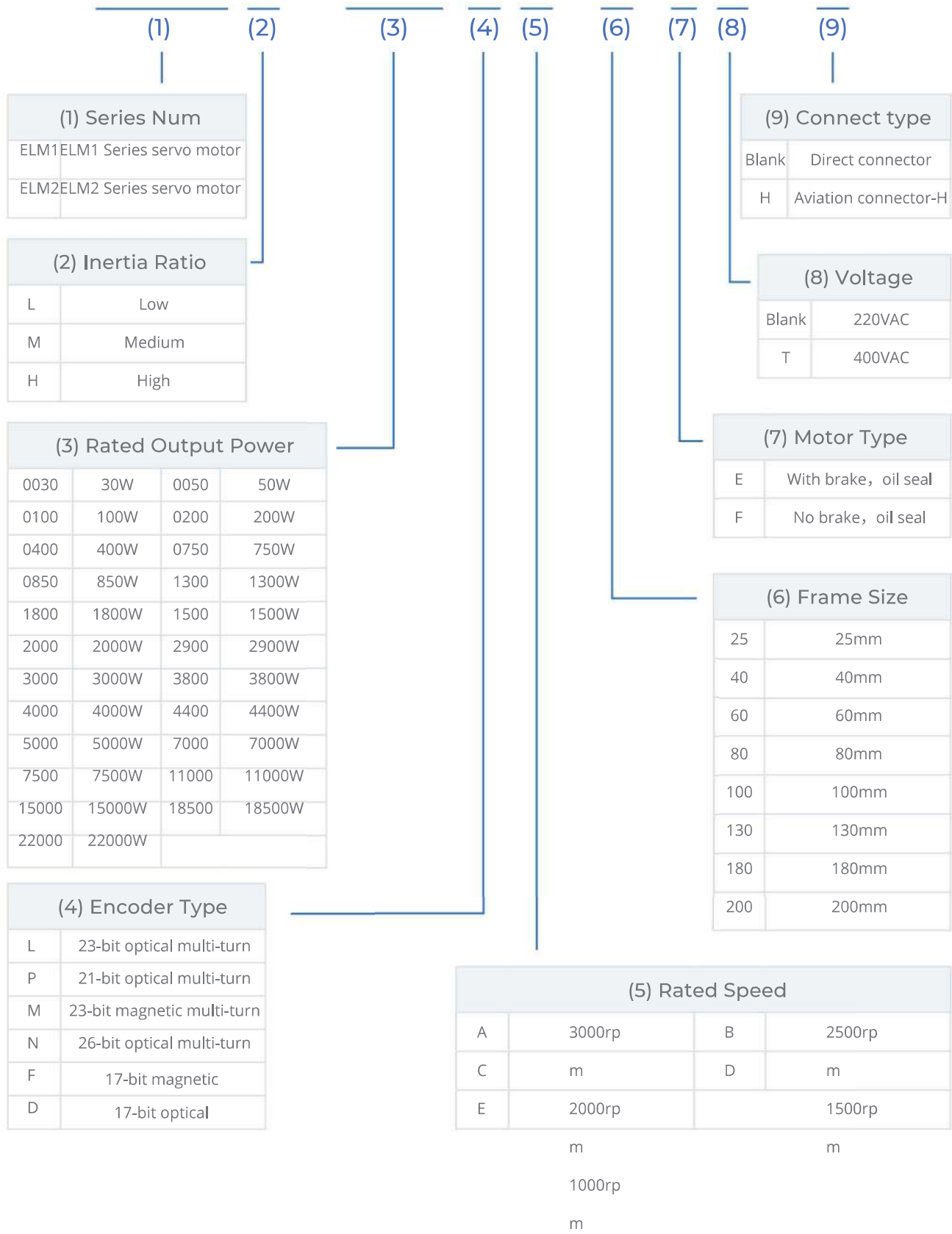
23-Bit magnetic encoder
Power: 50W-1800W

o ELM2 Series

23-Bit optical encoder
Power: 30W-22kW

 Part Numbers

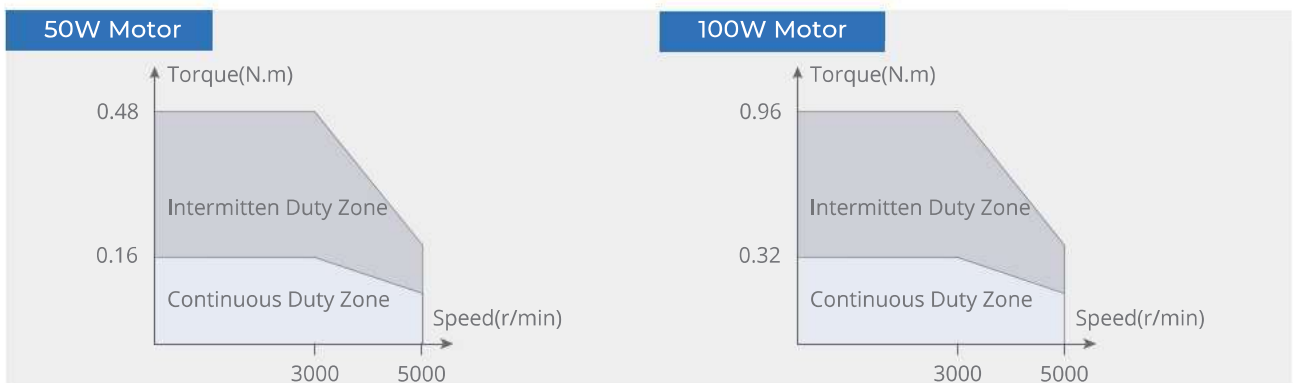
ELM2 H - 0850 L D 130 E T - H



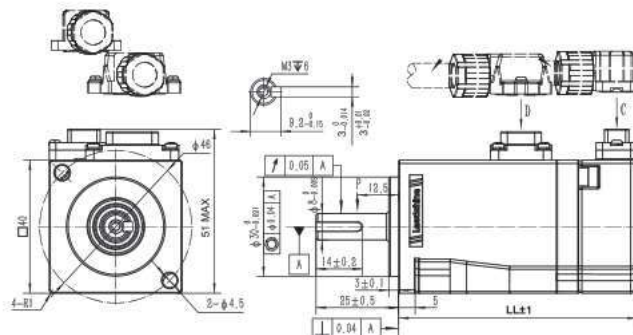
40mm Frame size & 50W~100W

Type Name	Frame Size (mm)	Brake	Voltage (VAC)	Power (W)	Speed (rpm)		Torque (Nm)		Current (Arms)		Permissible load to shaft (N)		Encoder	Inertia ($\text{kgm}^2 \times 10^{-4}$)	Weight (kg)			
					Rated	Max	Rated	Max	Rated	Max	Radial	Axial						
ELM1H-0050MA40E	40	✓	220	50	3000	5000	0.16	0.48	0.93	2.88	78	54	23-bit magnetic encoder	0.046	0.44			
ELM1H-0050MA40F		×												0.036	0.28			
ELM1H-0100MA40E		✓												100	0.072	0.54		
ELM1H-0100MA40F		×													0.062	0.38		
ELM2H-0050LA40E		✓		50			3000	5000	0.16	0.48	0.93	2.88	78	54	23-bit optical encoder	0.046	0.44	
ELM2H-0050LA40F		×														0.036	0.28	
ELM2H-0100LA40E		✓														100	0.072	0.54
ELM2H-0100LA40F		×															0.062	0.38

Speed-Torque characteristics



Dimensions

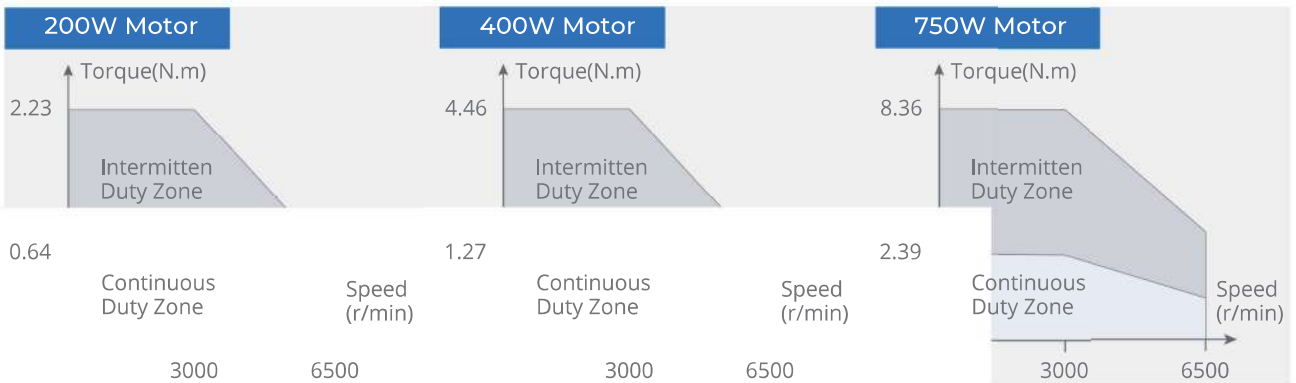


Motor model	LL
ELM*H-0050*A40E	84
ELM*H-0050*A40F	56.7
ELM*H-0100*A40E	95
ELM*H-0100*A40F	67.7

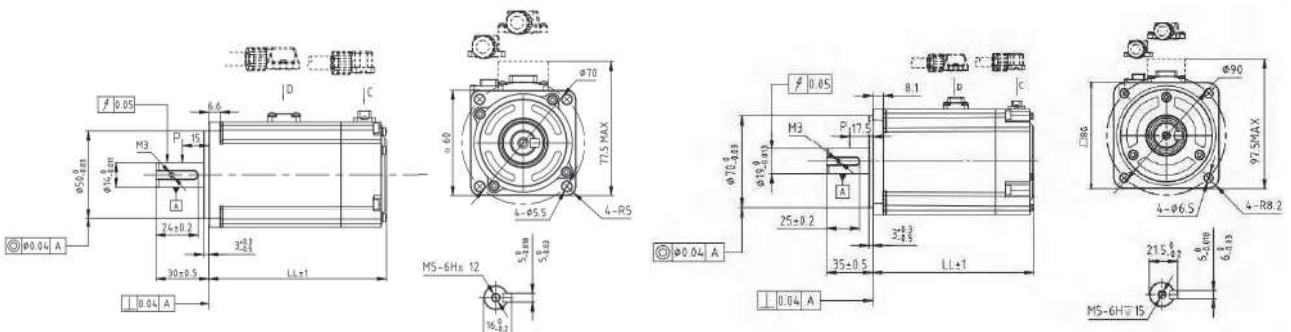
200W~750W

Type Name	Frame Size (mm)	Brake	Voltage (VAC)	Power (W)	Speed (rpm)		Torque (Nm)		Current (Arms)		Permissible load to shaft (N)		Encoder	Inertia (kgm ² *10 ⁻⁴)	Weight (kg)	
					Rated	Max	Rated	Max	Rated	Max	Radial	Axial				
ELM2L-0200LA60E	60	✓	220	200	3000	6500	1.27	0.64	2.23	1.5	5.7	245	74	23-bit optical encoder	0.15	1.2
ELM2L-0200LA60F		×													0.14	0.85
ELM2L-0400LA60E		✓													0.26	1.54
ELM2L-0400LA60F		×													0.25	1.19
ELM2L-0750LA80E	80	✓	220	750	3000	6500	1.27	2.39	8.36	4.2	16.1	392	147	23-bit optical encoder	0.79	2.74
ELM2L-0750LA80F		×													0.77	2.12

Speed-Torque characteristics



Dimensions



Motor model

LL

Motor model

LL

ELM2L-0200LA60E

101.2

ELM2L-0400LA60E

118.2

ELM2L-0200LA60F

71.8

ELM2L-0400LA60F

88.8

Motor model

LL

ELM2L-0750LA80E

121.9

ELM2L-0750LA80F

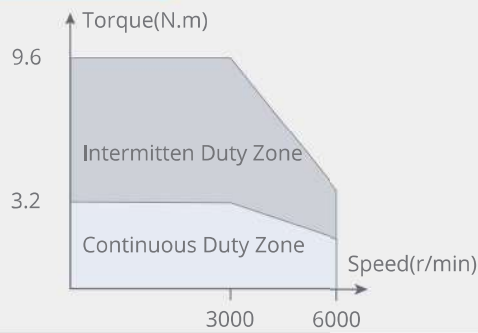
90.9

100mm Frame size & 1000W~1500W

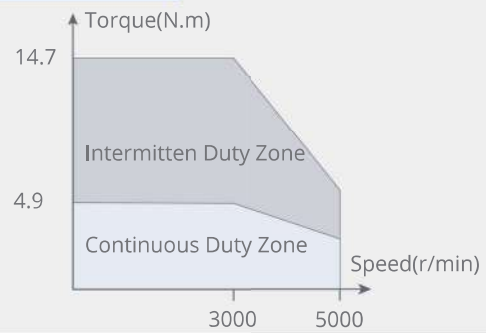
Type Name	Frame Size (mm)	Brake	Voltage (VAC)	Power (W)	Speed (rpm)		Torque (Nm)		Current (Arms)		Permissible load to shaft (N)		Encoder	Inertia ($\text{kgm}^2 \times 10^{-4}$)	Weight (kg)
					Rated	Max	Rated	Max	Rated	Max	Radial	Axial			
ELM2L-1000LA100E-H	100	√	220	1000	6000	3.2	9.6	6.5	19.5	490	98	23-bit optical encoder	2.63	5.9	
ELM2L-1000LA100F-H		×											2.43	4.6	
ELM2L-1500LA100E-H		√		1500	5000	4.9	14.7	8	25.5				3.803	7.1	
ELM2L-1500LA100F-H		×											3.503	5.8	

Speed-Torque characteristics

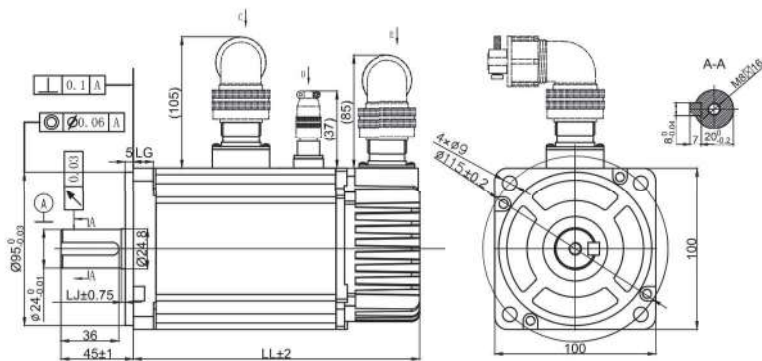
1000W Motor



1500W Motor



Dimensions



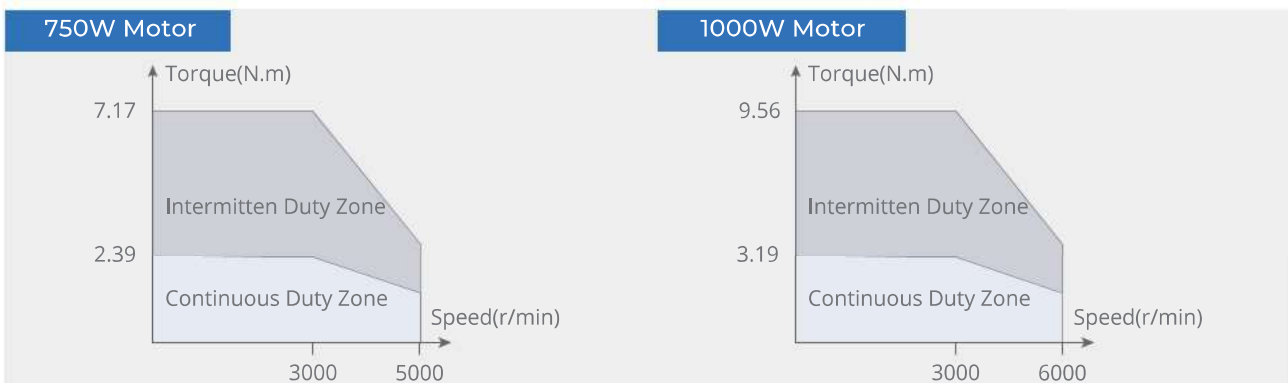
Motor model	LL
ELM2L-1000LA100E-H	194
ELM2L-1000LA100F-H	154
ELM2L-1500LA100E-H	218
ELM2L-1500LA100F-H	178

400
VAC

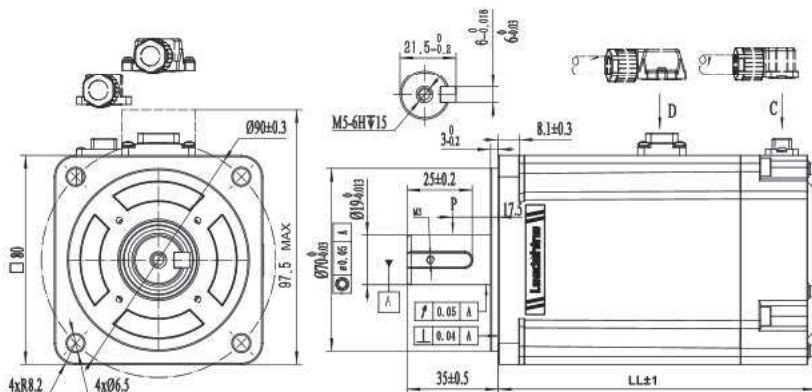
80mm Frame size & 750W~1000W

Type Name	Frame Size (mm)	Brake	Voltage (VAC)	Power (W)	Speed (rpm)		Torque (Nm)		Current (Arms)		Permissible load to shaft (N)		Encoder	Inertia (kgm ² *10 ⁻⁴)	Weight (kg)
					Rated	Max	Rated	Max	Rated	Max	Radial	Axial			
ELM2H-0750LA80ET	80	√	400	750	5000	2.39	7.17	2.7	8.8	392	147	23-bit optical encoder	1.65	2.7	
ELM2H-0750LA80F T		×											1.5	2.12	
ELM2H-1000LA80ET		√		1000	5000	3.18	9.54	4	12.4				2.15	3.4	
ELM2H-1000LA80F T		×											2.0	2.8	

Speed-Torque characteristics

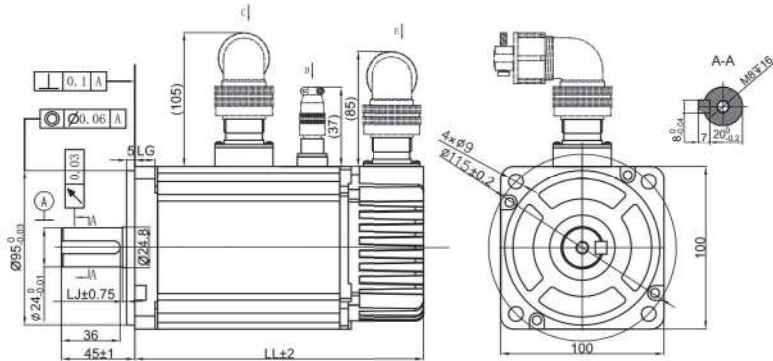


Dimensions



Motor model	LL
ELM2H-0750LA80ET	121.9
ELM2H-0750LA80F T	90.9
ELM2H-1000LA80ET	134.9
ELM2H-1000LA80F T	103.9

Dimensions

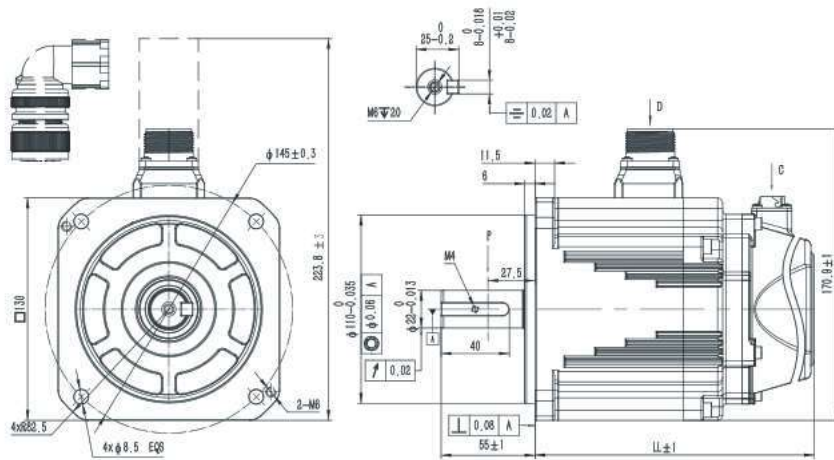


Motor model	LL	LG	LJ
ELM2L-1000LA100ET-H	194		
ELM2L-1000LA100FT-H	154	12	2.5
ELM2L-1500LA100ET-H	218		
ELM2L-1500LA100FT-H	178		
ELM2L-2000LA100ET-H	259		
ELM2L-2000LA100FT-H	219		
ELM2L-2500LA100ET-H	285	10	2.0
ELM2L-2500LA100FT-H	245		

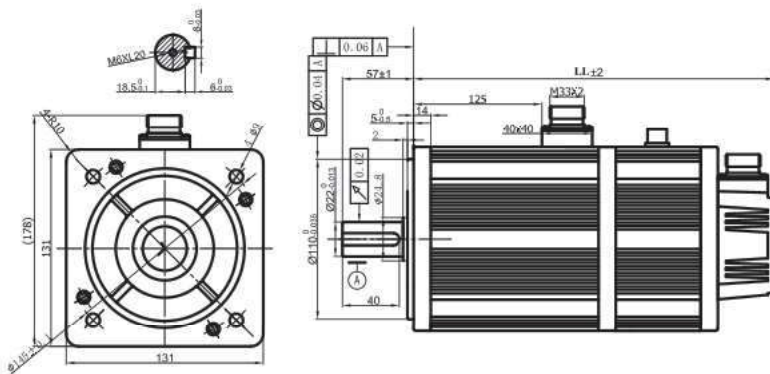
130mm Frame size & 850W~3800W

Type Name	Frame Size (mm)	Brake	Voltage (VAC)	Power (W)	Speed (rpm)		Torque (Nm)		Current (Arms)		Permissible load to shaft (N)		Encoder	Inertia (kgm ² *10 ⁻⁴)	Weight (kg)	
					Rated	Max	Rated	Max	Rated	Max	Radial	Axial				
ELM2H-0850LD130ET-H	130	✓	400	850	1300	1500	4500	8.34	23.8	4.6	13.8	343	686	23-bit optical encoder	14.8	6.9
ELM2H-0850LD130F T-H		×													12.5	5.5
ELM2H-1300LD130ET-H		✓													21	8.6
ELM2H-1300LD130F T-H		×													18.7	7.3
ELM2H-1800LD130ET-H		✓													26.1	10.2
ELM2H-1800LD130F T-H		×													23.8	8.8
ELM2M-3800LB130ET-H		✓													27.7	14.8
ELM2M-3800LB130F T-H		×														
ELM2L-3000LA130ET-H	130	✓	400	3800	2500	2800	15	30	7.4	15	490	196	23-bit optical encoder	11.3	13.25	
ELM2L-3000LA130FT-H		×												9.6	11.55	
ELM2L-4000LA130ET-H		✓												13.1	15.2	
ELM2L-4000LA130F T-H		×												11.4	13.5	
ELM2L-5000LA130ET-H		✓												15.6	16.7	
ELM2L-5000LA130F T-H		×												13.9	15	

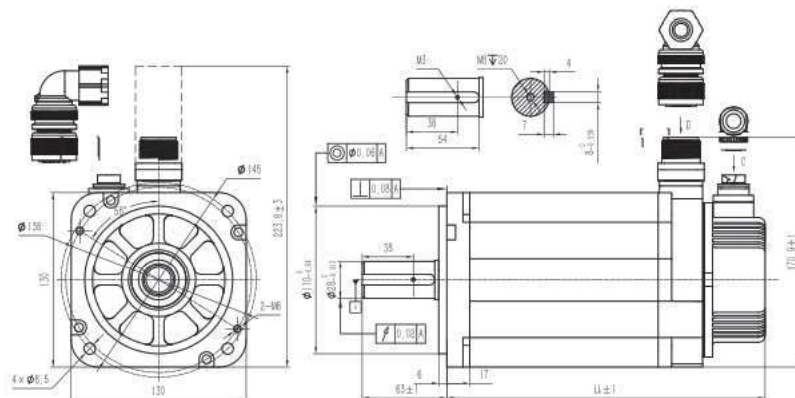
Dimensions



Motor model	LL
ELM2H-0850LD130ET-H	163.7
ELM2H-0850LD130FT-H	136.2
ELM2H-1300LD130ET-H	181.7
ELM2H-1300LD130FT-H	154.2
ELM2H-1800LD130ET-H	199.7
ELM2H-1800LD130FT-H	172.2



Motor model	LL
ELM2M-3800LB130ET-H	312
ELM2M-3800LB130FT-H	231



Motor model	LL
ELM2L-3000LA130ET-H	248.5
ELM2L-3000LA130FT-H	236.5
ELM2L-4000LA130ET-H	268.5
ELM2L-4000LA130FT-H	256.5
ELM2L-5000LA130ET-H	288.5
ELM2L-5000LA130FT-H	276.5

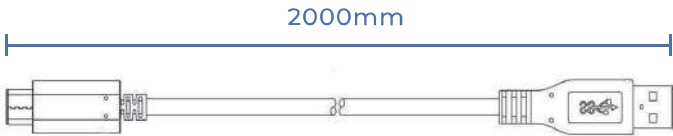




Cable Selection

The cables which are available for our EL6/EL7/EL8 series AC servo drives and ELM1 & ELM2 AC servo motors are listed in detail in this section including a comprehensive guide on how to match the right cables to the drives and motors.

For our EL6/EL7/EL8 series AC servo drives, a USB Type-C tuning cable is optionally provided to connect the drives to a PC for tuning purposes. Any USB Type-C to Type-A data cable can handle the same task. Ethernet cables are also available for communications between drives and controllers. Safe Torque Off STO cable (2 meters) is included with every purchase of our EL6/EL7/EL8 Series AC servo drives.

Motor power supply cables (including motor brake cables) and encoder cables are matched with our ELM1 and ELM2 series AC servo motors. The cables are matched to the servo motors based on motor series and frame sizes.

Servo Drive Cables

Tuning Cable	EL8-Series EL7-RSP Series EL7-ECN Series EL6-RSP Series	CABLE-TYPEC2M0	 <p style="text-align: center;">2000mm</p>
	EL7-ECF series	CABLE-USB1M5	
	EL6-CAN series	CABLE-L6TS1M5	
Communication cable		CABLE-TX*M*-BUS	 <p><i>*M* represents the length of the cables. For example, 1M5 = 1.5 meters Available length: 0.2M, 0.5M, 1.0M, 1.5M, 3M, 5M, 7M, 10M, 13M</i></p>
Safe Torque Off STO cable		CABLE-STOH*M*	 <p><i>*M* represents the length of the cables. For example, 1M5 = 1.5 meters Available length: 0.2M, 1.0M, 1.5M, 2M, 3M, 5M</i></p>

Encoder cable model number

CABLE BMA H 3M0 - 113 - T - R

Sign	Meaning
CABLE	Cable identification

Sign	Cable type
BM	Incremental encoder cable
BMA	Absolute encoder cable (Including Battery Kit)

Sign	Voltage
H	AC Servo motor cable
D	DC Servo motor cable

Sign	Length	Sig	Length
1M5	1.5 meter	n	h
3M0	3 meter	13M0	13 meter
5M0	5 meter	15M0	15 meter
7M0	7 meter	***	Please contact leadshine teams for other lengths
10M0	10 meter		

Sign	Drive side terminal type
1	1394-6P Connector
2	MOLEX Connector

Sign	Customized models
R	Direct plug for back-facing wiring
***	Customized

Sign	Special requirements
Blank	Fixed cable
T	flexible cable
TS	flexible & oil proof cable
***	Reserved

Sign	Motor side terminal type
1	AMP plastic plug
2	Reserved
3	Assembly type aviation plug
4	Terminal type direct plug
***	Reserved

Sign	Cable specifications
1	2PX24AWG
2	3PX24AWG
3	2PX26AWG
4	3PX26AWG
5	Reserved

ELM2 Series - 100&130mm

- o Frame size:100mm/130mm
- o Power rating:1000W/1500W/2000W/2500W/3800W



Cable Type		Diagram	Pin																							
Motor power		<p>CABLE-RZ*M*-H(V2.0)</p>	<table border="1"> <tr> <td>1</td> <td>Yellow</td> <td>PE</td> </tr> <tr> <td>2</td> <td>Red</td> <td>U</td> </tr> <tr> <td>3</td> <td>Green</td> <td>V</td> </tr> <tr> <td>4</td> <td>Black</td> <td>W</td> </tr> </table>	1	Yellow	PE	2	Red	U	3	Green	V	4	Black	W											
			1	Yellow	PE																					
			2	Red	U																					
			3	Green	V																					
4	Black	W																								
Motor brake		<p>CABLE-SC*M*-H(V3.0)</p>	<table border="1"> <tr> <td>1</td> <td>Black</td> <td>0V</td> </tr> <tr> <td>2</td> <td>Red</td> <td>24V</td> </tr> </table>	1	Black	0V	2	Red	24V																	
			1	Black	0V																					
2	Red	24V																								
Motor encoder	Incremental	<p>CABLE-7BM*M*-HZ(V3.0)</p>																								
	Absolute	<p>CABLE-7BMA*M*-HZ(V3.0)</p>	<table border="1"> <tr> <td>A</td> <td>Terminal</td> <td>B</td> </tr> <tr> <td>1</td> <td>PE</td> <td>-</td> </tr> <tr> <td>2</td> <td>5V</td> <td>1</td> </tr> <tr> <td>3</td> <td>0V</td> <td>2</td> </tr> <tr> <td>4</td> <td>SD+</td> <td>5</td> </tr> <tr> <td>5</td> <td>SD-</td> <td>6</td> </tr> <tr> <td>6*</td> <td>BAT+</td> <td>-</td> </tr> <tr> <td>7*</td> <td>BAT-</td> <td>-</td> </tr> </table> <p>*Terminal 6 & 7 is to be connected to battery kit for absolute encoder</p>	A	Terminal	B	1	PE	-	2	5V	1	3	0V	2	4	SD+	5	5	SD-	6	6*	BAT+	-	7*	BAT-
A	Terminal	B																								
1	PE	-																								
2	5V	1																								
3	0V	2																								
4	SD+	5																								
5	SD-	6																								
6*	BAT+	-																								
7*	BAT-	-																								

ELM2 Series - 130mm

- Frame size: 130mm
- Power rating:
850W/1300W/1800W/3000W/4000W/5000W



Cable Type		Diagram	Pin																							
Motor power	With brake	<p>CABLE-RZSH*M*-135-TS</p>																								
	Without brake	<p>CABLE-RZH*M*-135-TS</p>	<p>A Blue U B Black V C Red W D Yellow Green PE 1* Black 0V 2* Red 24V *1&2 terminal for motor with brake</p>																							
Motor encoder	Incremental	<p>CABLE-BMH*M*-115-TS</p>																								
	Absolute	<p>CABLE-BMH*M*-125-TS</p>																								
	Battery kit	<p>ER14505 BOX-G DCH ROHS</p>	<table border="1"> <thead> <tr> <th>A</th> <th>Terminal</th> <th>B</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>PE</td> <td>-</td> </tr> <tr> <td>2</td> <td>5V</td> <td>1</td> </tr> <tr> <td>3</td> <td>0V</td> <td>2</td> </tr> <tr> <td>4</td> <td>SD+</td> <td>5</td> </tr> <tr> <td>5</td> <td>SD-</td> <td>6</td> </tr> <tr> <td>6*</td> <td>BAT+</td> <td>-</td> </tr> <tr> <td>7*</td> <td>BAT-</td> <td>-</td> </tr> </tbody> </table> <p>*Terminal 6 & 7 is to be connected to battery kit for absolute encoder</p>	A	Terminal	B	10	PE	-	2	5V	1	3	0V	2	4	SD+	5	5	SD-	6	6*	BAT+	-	7*	BAT-
A	Terminal	B																								
10	PE	-																								
2	5V	1																								
3	0V	2																								
4	SD+	5																								
5	SD-	6																								
6*	BAT+	-																								
7*	BAT-	-																								

ELM2M Series - 200mm

- Frame size:200mm
- Power rating:11000W-22000W



Cable Type		Diagram	Pin																														
Motor power	11kw&15kw	<p>CABLE-RZM*M*-212</p>	<table border="1"> <tr> <td>1</td> <td>Red</td> <td>U</td> </tr> <tr> <td>2</td> <td>Yellow</td> <td>V</td> </tr> <tr> <td>3</td> <td>Blue</td> <td>W</td> </tr> <tr> <td>4</td> <td>Yellow Green</td> <td>PE</td> </tr> </table>	1	Red	U	2	Yellow	V	3	Blue	W	4	Yellow Green	PE																		
	1	Red		U																													
2	Yellow	V																															
3	Blue	W																															
4	Yellow Green	PE																															
	18.5kW-22kW	<p>CABLE-RZH*M*-292</p>																															
Motor brake		/	<table border="1"> <tr> <td>REF-</td> <td>White</td> <td>0V</td> </tr> <tr> <td>REF+</td> <td>Red</td> <td>24V</td> </tr> </table>	REF-	White	0V	REF+	Red	24V																								
REF-	White	0V																															
REF+	Red	24V																															
Motor encoder		<p>CABLE-BMH*M*-D20</p>	<table border="1"> <thead> <tr> <th>A</th> <th>Terminal</th> <th>B</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>PE</td> <td>-</td> </tr> <tr> <td>2</td> <td>5V</td> <td>7</td> </tr> <tr> <td>3</td> <td>0V</td> <td>8</td> </tr> <tr> <td>4</td> <td>SD+</td> <td>1</td> </tr> <tr> <td>5</td> <td>SD-</td> <td>2</td> </tr> <tr> <td>6*</td> <td>BAT+</td> <td>-</td> </tr> <tr> <td>7*</td> <td>BAT-</td> <td>-</td> </tr> <tr> <td>8</td> <td>PTC+</td> <td>9</td> </tr> <tr> <td>9</td> <td>PTC-</td> <td>5</td> </tr> </tbody> </table> <p>*Terminal 6 & 7 is to be connected to battery kit for absolute encoder</p>	A	Terminal	B	1	PE	-	2	5V	7	3	0V	8	4	SD+	1	5	SD-	2	6*	BAT+	-	7*	BAT-	-	8	PTC+	9	9	PTC-	5
A	Terminal	B																															
1	PE	-																															
2	5V	7																															
3	0V	8																															
4	SD+	1																															
5	SD-	2																															
6*	BAT+	-																															
7*	BAT-	-																															
8	PTC+	9																															
9	PTC-	5																															

EL7 Series

Frame Size (mm)	Rated Power (W)	Motor Model	Matching Drive	Motor Length (mm)	Rated Torque (Nm)	Rated/Max Speed(rpm)	Inertia (kgm ² *10 ⁻⁴)	Motor Cable	Encoder cable	Brake Cable
40	50W (220V)	ELM2H-0050LA40F	EL7-RS400P EL7-EC400F EL7-EC400N EL7-PN400F	56.7	0.16	3000/5000	0.036	CABLE-RZH*M*-114-TS- (R) 【without brake】 CABLE-RZSH*M*-114-TS- (R) 【with brake】 (Add "R" after the model for back facing motor wiring)	CABLE-BMH*M*-114-TS- (R) 【Incremental】 CABLE-BMH*M*-124-TS- (R) 【Absolute】 +ER14505 BOX-G (Battery Kit) (Add "R" after the model for back facing motor wiring)	If you need brake cable, please select power cable with brake in the power cable column.
		ELM2H-0050LA40E		84			0.046			
	100W (220V)	ELM2H-0100LA40F		67.7	0.32	3000/5000	0.062			
		ELM2H-0100LA40E		95			0.072			
60	200W (220V)	ELM2H-0200LA60F		71.6	0.64	3000/5000	0.28			
		ELM2H-0200LA60E		101.1			0.3			
	400W (220V)	ELM2H-0400LA60F		88.8	1.27	3000/5000	0.6			
		ELM2H-0400LA60E		118.1			0.62			
80	750W (220V)	ELM2H-0750LA80F	EL7-RS750P EL7-EC750F	90.9	2.39	3000/5000	1.8			
		ELM2H-0750LA80E	EL7-EC750N EL7-PN750F	121.9			1.95			
	1000W (220V)	ELM2H-1000LA80F	EL7-RS1000P EL7-EC1000F	103.9	3.18	3000/5000	2			
		ELM2H-1000LA80E	EL7-EC1000N EL7-PN1000F	134.9			2.15			
	750W (380V)	ELM2H-0750LA80FT	EL7-RS750PT EL7-EC750FT	90.9	2.39	3000/5000	2.12			
		ELM2H-0750LA80ET	EL7-EC750NT EL7-PN750FT	121.9			2.7			
100	1000W (220V)	ELM2L-1000LA100F-H	EL7-RS1000P EL7-EC1000F	154	3.2	3000/6000	2.43	CABLE-RZ*M*H (V1.1) 【Fixed cable】 CABLE-RZ*M*-H (V2.0) 【Flexible cable】 CABLE-7BM*M*-HZ (V3.0) 【Incremental】 CABLE-7BMA*M*-HZ (V3.0) 【Absolute】	CABLE-SC*M*-H (V3.0)	
		ELM2L-1000LA100E-H	EL7-EC1000N EL7-PN1000F	194			2.63			
	1500W (220V)	ELM2L-1500LA100F-H	EL7-RS1500P EL7-EC1500N	178	4.9	3000/5000	3.503			
		ELM2L-1500LA100E-H	EL7-PN1500F	218			3.803			
130	850W (220V)	ELM2H-0850LD130F-H	EL7-RS1000P EL7-EC1000F	126	5.39	1500/4500	12.5	CABLE-RZH*M*-135-TS 【without brake】 CABLE-RZSH*M*-135-TS 【with brake】 CABLE-BMH*M*-115-TS 【Incremental】 CABLE-BMH*M*-125-TS 【Absolute】 +ER14505 BOX-G (Battery Kit)	If you need brake cable, please select power cable with brake in the power cable column.	
		ELM2H-0850LD130E-H	EL7-EC1000N EL7-PN1000F	153.5			8.34			
	1300W (220V)	ELM2H-1300LD130F-H	EL7-RS1500P EL7-EC1500N	144	8.34	1500/4500	18.7			
		ELM2H-1300LD130E-H	EL7-PN1500F	171.5			21			
	1800W (220V)	ELM2H-1800LD130F-H	EL7-RS2000P EL7-EC2000N	162	11.5	1500/3000	23.8			
		ELM2H-1800LD130E-H	EL7-PN2000F	189.5			26.1			

EL6 Series

Frame Size (mm)	Rated Power (W)	Motor Model	Matching Drive	Motor Length (mm)	Rated Torque (Nm)	Rated/Max Speed(rpm)	Inertia (kgm ² *10 ⁻⁴)	Motor Cable	Encoder cable	Brake Cable
40	50W (220V)	ELM2H-0050LA40F	EL6-RS400P EL6-CAN400Z	56.7	0.16	3000/5000	0.036	CABLE-RZH*M*-114-TS- (R) 【without brake】 CABLE-RZSH*M*-114-TS- (R) 【with brake】 (Add "R" after the model for back facing motor wiring)	CABLE-BMH*M*-114-TS 【Incremental】 CABLE-BMH*M*-124-TS- (R) 【Absolute】 +ER14505 BOX-G (Battery Kit) (Add "R" after the model for back facing motor wiring)	If you need brake cable, please select power cable with brake in the power cable column.
		ELM2H-0050LA40E		84			0.046			
	100W (220V)	ELM2H-0100LA40F		67.7	0.32	3000/5000	0.062			
		ELM2H-0100LA40E		95			0.072			
60	200W (220V)	ELM2H-0200LA60F	EL6-RS750P EL6-CAN750Z	71.6	0.64	3000/5000	0.28	CABLE-RZH*M*-114-TS- (R) 【without brake】 CABLE-RZSH*M*-114-TS- (R) 【with brake】 (Add "R" after the model for back facing motor wiring)	CABLE-BMH*M*-114-TS 【Incremental】 CABLE-BMH*M*-124-TS- (R) 【Absolute】 +ER14505 BOX-G (Battery Kit) (Add "R" after the model for back facing motor wiring)	If you need brake cable, please select power cable with brake in the power cable column.
		ELM2H-0200LA60E		101.1			0.3			
	400W (220V)	ELM2H-0400LA60F		88.8	1.27	3000/5000	0.6			
		ELM2H-0400LA60E		118.1			0.62			
80	750W (220V)	ELM2H-0750LA80F	EL6-RS750P EL6-CAN750Z	90.9	2.39	3000/5000	1.8	CABLE-RZH*M*-114-TS- (R) 【without brake】 CABLE-RZSH*M*-114-TS- (R) 【with brake】 (Add "R" after the model for back facing motor wiring)	CABLE-BMH*M*-114-TS 【Incremental】 CABLE-BMH*M*-124-TS- (R) 【Absolute】 +ER14505 BOX-G (Battery Kit) (Add "R" after the model for back facing motor wiring)	If you need brake cable, please select power cable with brake in the power cable column.
		ELM2H-0750LA80E		121.9			1.95			
	1000W (220V)	ELM2H-1000LA80F		103.9	3.18	3000/5000	2			
		ELM2H-1000LA80E		134.9			2.15			
100	1000W (220V)	ELM2L-1000LA100F-H	EL6-RS1000P EL6-CAN1000Z	154	3.2	3000/6000	2.43	CABLE-RZ*M*H (V1.1) 【Fixed cable】 CABLE-RZ*M*-H (V2.0) 【Flexible cable】	CABLE-7BM*M*-HZ (V3.0) 【Incremental】 CABLE-7BMA*M*-HZ (V3.0) 【Absolute】	CABLE-SC*M*-H (V3.0)
		ELM2L-1000LA100E-H		194			2.63			
130	850W (220V)	ELM2H-0850LD130F-H	EL6-RS1000P EL6-CAN1000Z	126	5.39	1500/4500	12.5	CABLE-RZH*M*-135-TS 【without brake】 CABLE-RZSH*M*-135-TS 【with brake】	CABLE-BMH*M*-114-TS 【Incremental】 CABLE-BMH*M*-124-TS- (R) 【Absolute】 +ER14505 BOX-G (Battery Kit) (Add "R" after the model for back facing motor wiring)	If you need brake cable, please select power cable with brake in the power cable column.
		ELM2H-0850LD130E-H		153.5			14.8			