R1 AUTOMAZIONE & INNOVAZIONE

SyBy

Leadshine

Stock Code: 002979

DC Input Servo

Product Catalogue

Reliable Motion Control Partner

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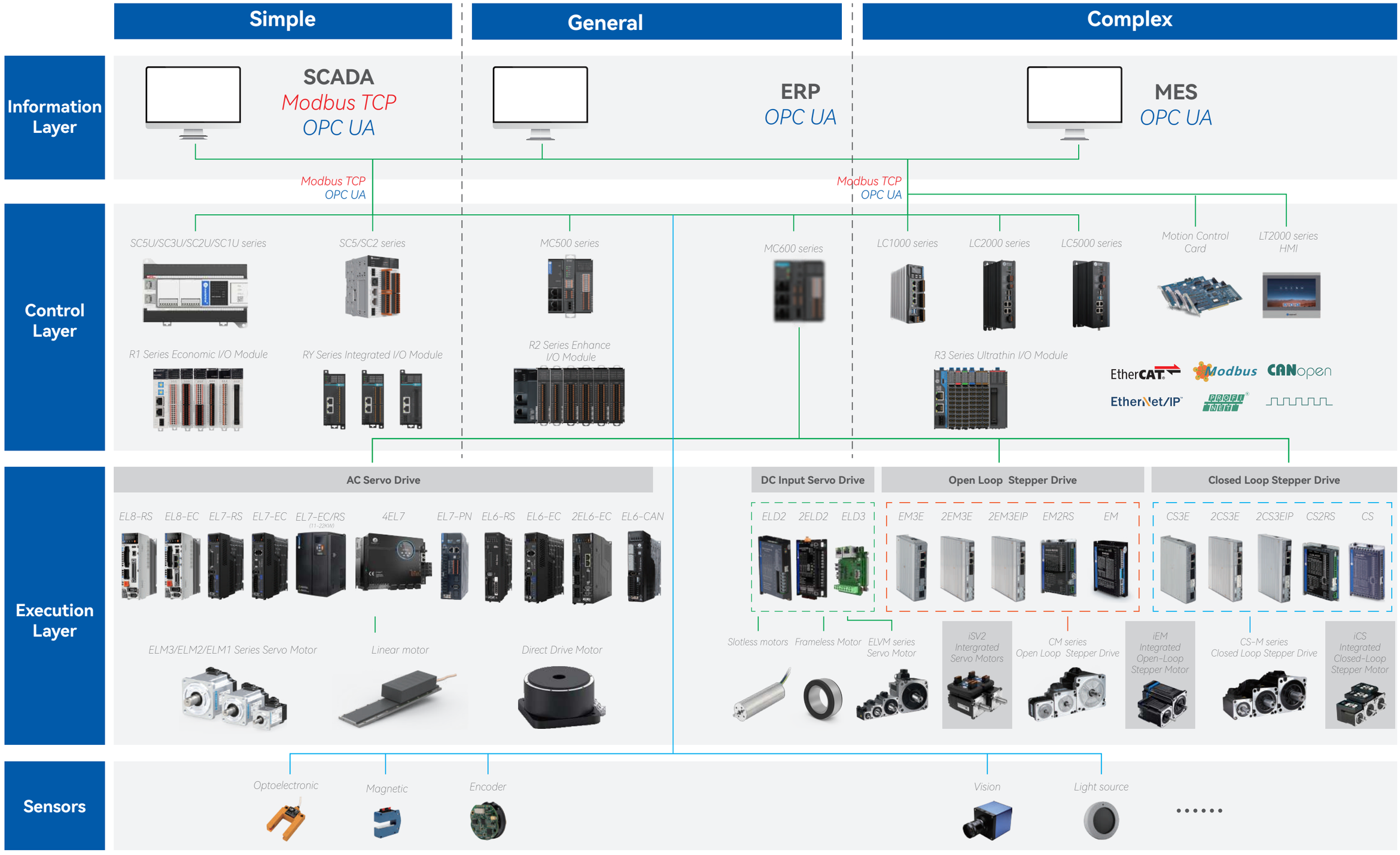
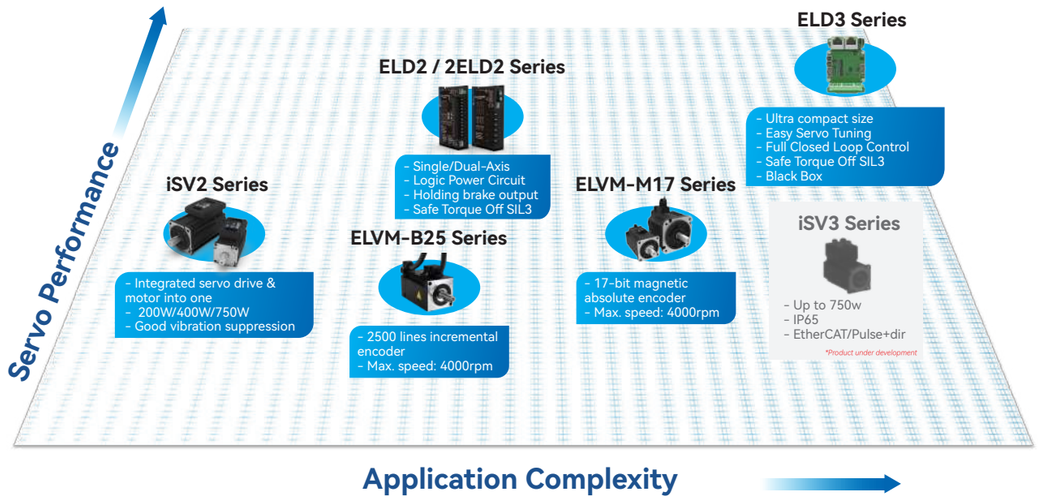
Leadshine Motion Control Total Product System



Leadshine Servo Product

DC Servo Drive Series



Simple Introduction

ELD3 Series

Latest full functional ultra-compact sized DC Servo Drives with EtherCAT control (Modbus RTU, Pulse + Direction, Analogue, CANopen version coming soon). Equipped with more user friendly servo features. Currently, offering 4 models from 50W to 750W. Available with and without housing.

ELD2/2ELD2 Series

Single and Dual-axis series DC servo drives with Modbus RTU, Pulse + Direction, Analogue and CANopen control. Delivers great performance for most applications requiring smooth and economical solutions. Power rating ranging from 200W up to 2000W.

iSV2 Series

Integrated servo motor with drive and motor combined into one unit to save installation space and wiring work. This series delivers overloading capability up to 3 times and gives good positioning with 17-bit magnetic encoder.

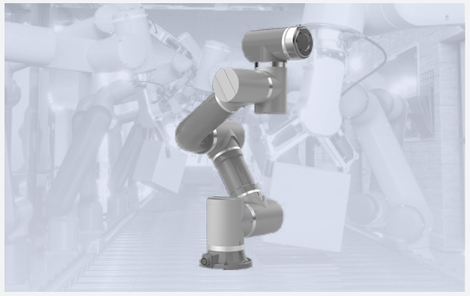
ELVM Series

ELVM Series servo motors come with 17-bit magnetic absolute encoder and 2500ppr incremental encoder. The servo motors are also equipped with SP21 connectors which make the connections stable and the motor IP65 rated. Power rating ranging from 33W to 2600mm with flange size of 25/40/60/80/130mm.

Applications

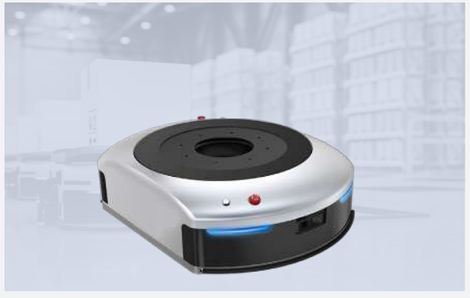
Logistic Sorting Line

- Integrated Servo Motor combines drive and motor in one, saving 50% installation and make wiring work easier.
- Supports DC input of 24-70V. Switching power supply easily available.
- 3 times overload capacity with motor power rating up to 750W for heavier loaded applications.
- High servo responsiveness with smooth acceleration and deceleration.
- Smooth motion with vibration suppression.



Collaborative Robots (COBOTS)

- Compact sized full functional servo drive.
- Safety features: Low EMC, Safe Torque Off SIL3, Logic Power Circuit.
- Lightweight and small dimension drive suitable for smaller robots.
- Full closed loop control for better positioning control.



AGV / RGV

- Dual-axis DC servo drive with input of 24-70VDC.
- ELD2 series Servo Drive supports standard CANopen and Modbus RTU protocol.
- Can be powered using batteries.
- Positioning accuracy of mobile vehicles up to +-1mm.
- With good overloading capacity and high response, velocity of the vehicles can reach up to 5m/s and acceleration of 2m/s2.

Leadshine Servo Products Quick Selection

Servo Drive	Model	Power (W)	Main Voltage (VDC)	Logic Power (VDC)	Dimensions (mm)	Weight (kg)	Command Source		Command Source			STO	Encoder Output	Brake Output	Digital Inputs	Digital Outputs	Analog Inputs	Matched Servo Motors
							Pulse+Dir	Analog	RS485	EtherCAT	CANopen							
DC Servo Drive Single-Axis ELD2 Series	ELD2-RS7005	200	24-70	-	118*75.5*25.5	0.2	√	√	√						4	2		*ELVM Servo Motors for more information please refer to pages 50 to 51 *3rd Party Brushless / Brushed Motor
	ELD2-CAN7005B				140*79.5*25.5	0.3					√			√	4	2		
	ELD2-RS7010	400			118*75.5*25.5	0.2	√	√	√				√		4	2		
	ELD2-CAN7010B				140*79.5*25.5	0.3					√		√	√	4	2		
	ELD2-RS7015B	600			175*100.5*31	0.7	√	√	√				√	√	4	2		
	ELD2-CAN7015B										√		√	√	4	2		
	ELD2-RS7020B	750					√	√	√				√	√	4	2		
	ELD2-CAN7020B										√		√	√	4	2		
	ELD2-RS7030B	1200					√	√	√				√	√	4	2		
	ELD2-CAN7030B										√		√	√	4	2		
	ELD2-RS7040B	1500					√	√	√			√	√	√	4	2		
	ELD2-CAN7040B										√	√	√	√	4	2		
	ELD2-RS7060B	2500		24-70	194*103*41	0.9	√	√	√			√	√	√	4	2		
	ELD2-CAN7060B										√	√	√	√	4	2		
DC Servo Drive Dual-Axis 2ELD2 Series	2ELD2-RS7020B	750*2	24-70	24-70	194*103*41	1.0	√		√			√		√	4*2	2*2		
	2ELD2-CAN7020B							√			√	√		√	4*2	2*2		
	2ELD2-RS7030B	1200*2					√		√			√		√	4*2	2*2		
	2ELD2-CAN7030B							√			√	√		√	4*2	2*2		
DC Servo Drive Mini ELD3 Series	ELD3-EC7001B	50	24-70	24-30	73*66*37	0.15				√		√	√	√	6	3	2	
	ELD3-EC7005B	200								√		√	√	√	6	3	2	
	ELD3-EC7010B	400								√		√	√	√	6	3	2	
	ELD3-EC7020B	750								√		√	√	√	6	3	2	

Integrated Servo Motor	Model	Power (W)	Rated Voltage (VDC)	Flange size (mm)	Current (Arms)		Torque (Nm)		Rotational speed (rpm)		Command Source		Command Source			STO	Digital Inputs	Digital Outputs
					Rated	Peak	Rated	Peak	Rated	Peak	Pulse+Dir	Analog	RS485	EtherCAT	CANopen			
iSV2 Integrated Series	iSV2-CAN6020V24	200	24	60	11	34	0.64	1.92	3000	4000					√		4	2
	iSV2-RS6020V24										√		√				4+2	2
	iSV2-CAN6020V48		48		6.5	20	0.64	1.92							√		4+2	2
	iSV2-RS6020V48										√		√				4+2	2
	iSV2-CAN6040V48	400			10	28	1.27	3.81							√		4	2
	iSV2-RS6040V48										√		√				4+2	2
	iSV2-CAN8075V48	750		80	19	57	2.4	7.2							√		4	2
	iSV2-RS8075V48										√		√				4+2	2
	iSV2-RS5740V48H	400		57	10	28	1.27	3.81			√		√				4+2	2
	iSV2-RS8675V48H	750		86	19	57	2.4	7.2			√		√				4+2	2

Leadshine

CANopen Modbus

Single-Axis DC Servo Drive

ELD2 Series

ELD2 Series DC Servo Drive comes with voltage rating of 24 to 70VDC and current rating from 5A up to 60A (max. peak current: 180A). ELD2 series servo drive communication protocol includes CANopen, Modbus RTU, Pulse & Direction and Analogue. These drives provide simplicity to users with functions such as adaptive filters, vibration suppression and safety features such as STO SIL3, Logic Power Circuit.

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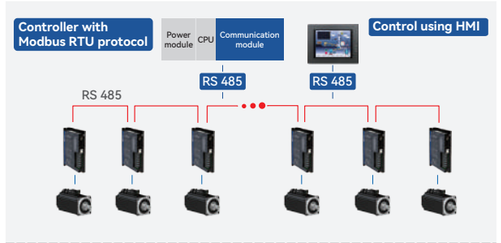
Overview

Easier networking between devices

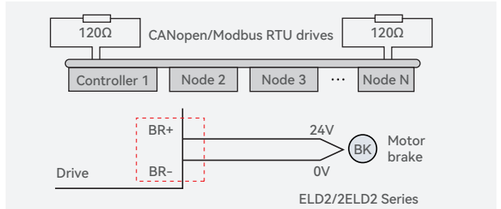
Modbus RTU enables easier networking between devices.



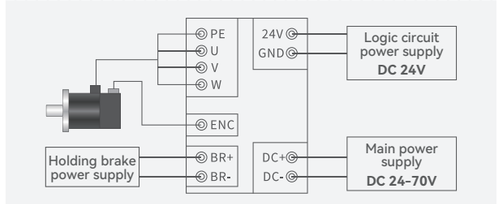
CANopen communication protocol with PDO settings for easier drive setup and 402 observer for drive data monitoring and tuning.

Better functions for user convenience

Integrated terminal switch and holding brake power supply make installation much easier.



Logic circuit power supply for safer operation. When main power supply is cut off, logic power supply can maintain partial function of DSP and the power supply to activate motor holding brake.



Can be matched to many types of motors

Slotless Motor, ELVM Series DC Servo Motor, Brush Motor, Motor with Hall Encoder, Drive wheels.

Part Numbers

ELD2 - RS 70 30 B

Series Num	
ELD2	DC Servo Drive Series

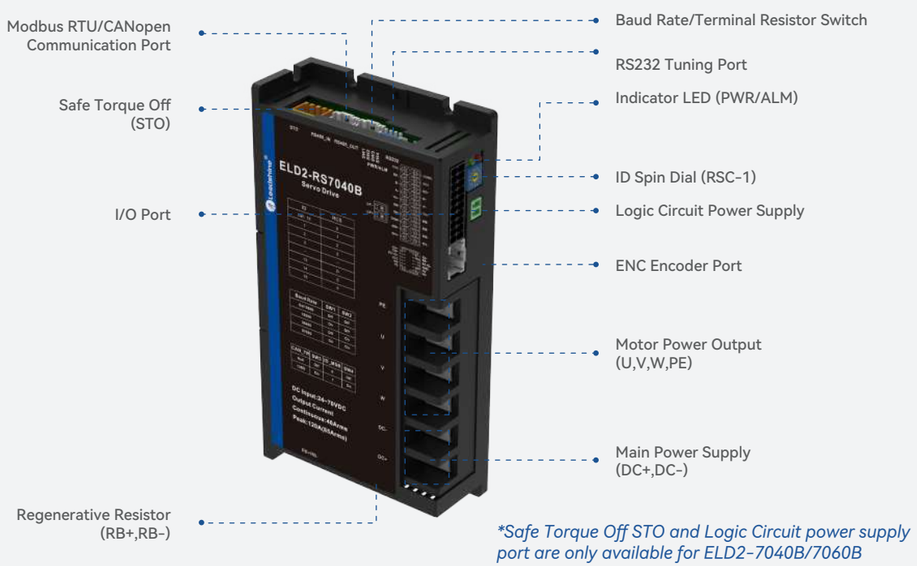
Communication protocol	
RS	Pulse + Modbus RTU
CAN	CANopen + Analogue

Rated Voltage	
70	24-70VDC

Rated Current			
05	5Arms	30	30Arms
10	10Arms	40	40Arms
15	15Arms	60	60Arms
20	20Arms		

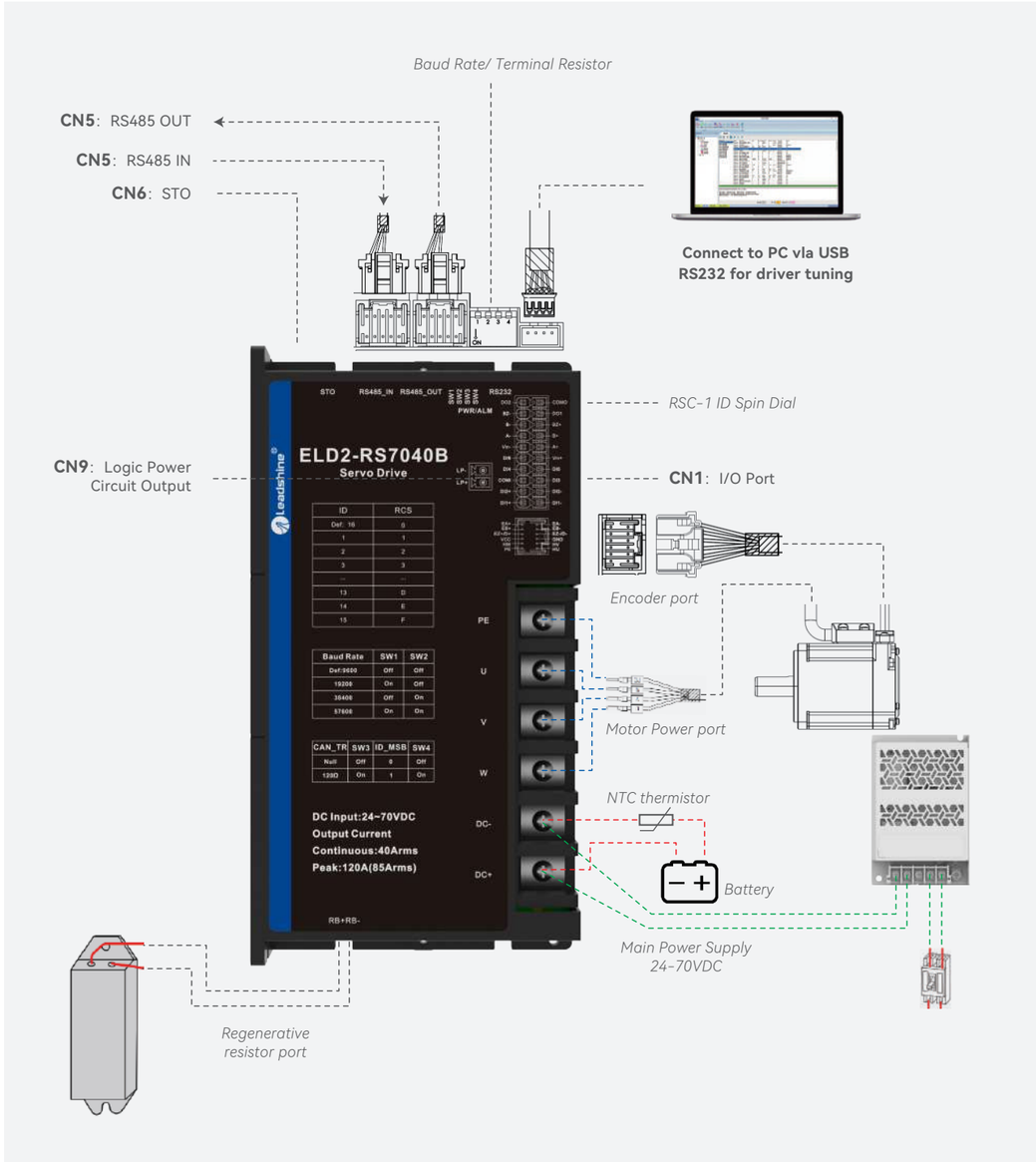
Version	
B	With Brake Output
Blank	Without Brake Output

Ports & Connectors



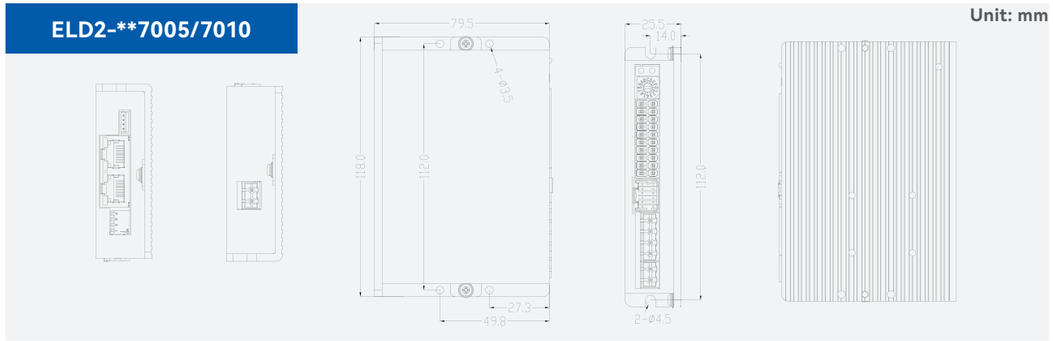
**Safe Torque Off STO and Logic Circuit power supply port are only available for ELD2-7040B/7060B*

ELD2 & Peripheral Wiring Diagram



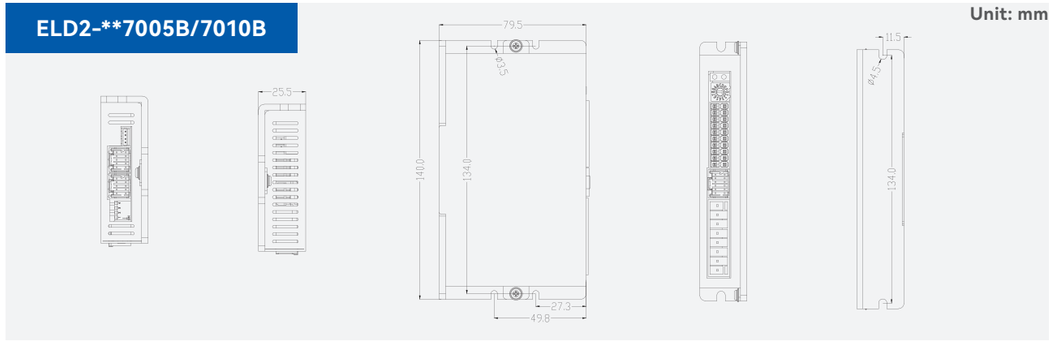
ELD2-**7005/7010

Unit: mm



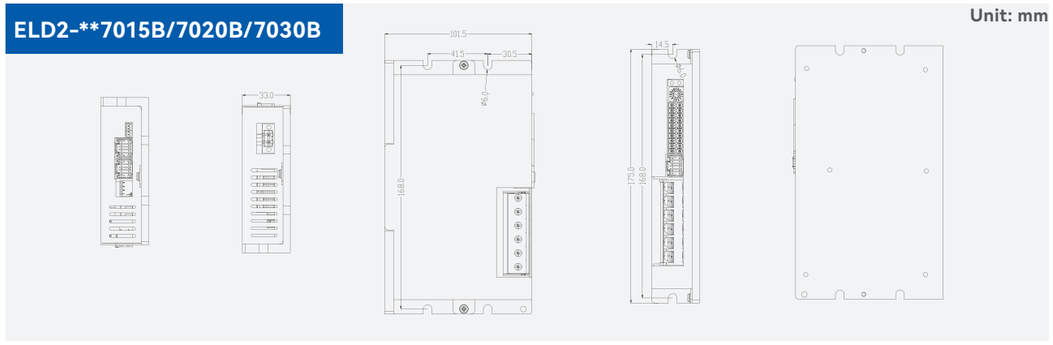
ELD2-**7005B/7010B

Unit: mm



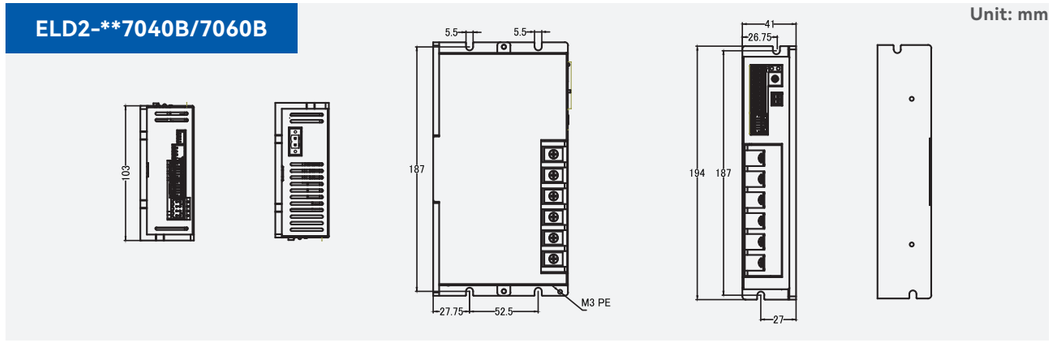
ELD2-**7015B/7020B/7030B

Unit: mm



ELD2-**7040B/7060B

Unit: mm



Specifications

ELD2 series	RS7005 CAN7005B	RS7010 CAN7010B	RS7015B CAN7015B	RS7020B CAN7020B	RS7030B CAN7030B
Rated Current (Arms)	5	10	15	20	30
Peak Current (Arms)	21	42	45	80	90
Dimension L*H*W(mm)	118*79.5*25.5	175*100.5*33		168*183*80	

ELD2 series	RS7040B、CAN7040B	RS7060B、CAN7060B
Rated Current (Arms)	40	60
Peak Current (Arms)	120	180
Dimension(mm)	194*103*41	
Logic Power Supply	24VDC	
Safe Torque Off (STO)	STO SIL3	
Main power supply	24 ~ 70VDC	
Direct Drive Holding Brake	Yes	
Drive mode	SVPWM sinusoidal wave drive	
Velocity regulation ratio	5000:1	
Electronic gear ratio	1 ~ 32767/1 ~ 32767	
Matching encoders	Hall signal UVW + ABZ or RS485 encoder（Tamagawa protocol）	
Analog Input	2 analog inputs (AI1/AI2), -10V~+10V, Max. voltage : ±12V - RS models	
Digital Input	2 pulse differential 5V Digital input (Pulse+direction) – RS models 4 configurable NPN/PNP 24V Digital Inputs: DI3-DI6	
Digital Output	1 holding brake output; 2 configurable single-ended NPN/PNP 24V, 8mA digital outputs	
Alarm	Current circuit error, DC bus overvoltage, DC bus undercurrent, overcurrent, overcurrent on IPM, motor overload, regenerative resistor overload, encoder disconnected, encoder initialization error, encoder data error, excessive position deviation, overspeed, I/O configuration error, EEPROM parameter saving CRC checksum error, positive/negative position limit valid, forced alarm input valid	
Indicator light	Red & Green LED	
Tuning Software	Motion Studio 2	
Motion Studio 2	Configure parameters for current, position and velocity loop. Parameter uploading using .lsr parameter files. Drive and motor data monitoring using oscilloscope.	
Communication Port	RS-232，1: 1； RS485，0: N（0 ≤ N ≤ 127），CANopen / Modbus	
Load-Inertia	Smaller than 20 times motor inertia	
Communication Port	Storage condition	Avoid direct sunlight. Keep away from heat generating devices, dust, oil, corrosive liquid/gas and places with strong vibration or high humidity. Prohibit combustible gas and conductive material waste.
	Temperature	-20℃ ~ + 45℃ (Please allow air circulation if >45℃)
	Storage temperature	-20℃ ~ + 65℃
	Humidity	40—90%RH （Condensation free）
	Installation	Vertical and level to ground

CANopen Modbus

Dual-Axis DC Servo Drive

2ELD2 Series

2ELD2 Series DC servo drive is our dual-axis DC servo drive which doesn't compromise on functionalities and quality. This series is aimed at helping our customer to reduce machine cost and also application in which installation space is more demanding.

2ELD2 series supports Modbus RTU, CANopen protocol and pulse & direction, analogue control. These drives provide simplicity to users with functions such as adaptive filters, vibration suppression and safety features such as STO SIL3, Logic Power Circuit.

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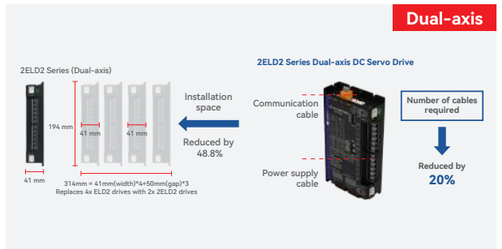
Overview

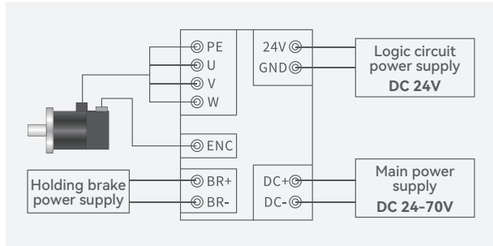
Dual-axis drive

Dual-axis 2ELD2 series DC servo drive saves installation space up to 48% and reduces wiring work up to 20%.



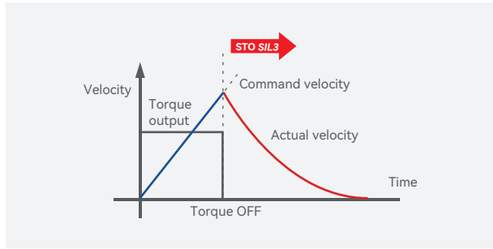
Logic Power Circuit

Logic circuit power supply for safer operation. When main power supply is cut off, logic power supply can maintain partial function of DSP and the power supply to activate motor holding brake.



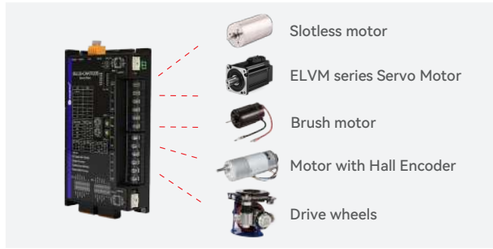
Safe Torque Off

Ensures that no torque-generating energy can act upon a motor at emergency stop and prevents unintentional starting.



Can be matched to many types of motors

Slotless Motor, ELVM Series Servo Motor, Brush Motor, Motor with Hall Encoder, Drive wheels.



Part Numbers

2ELD2 - RS 70 30 B

Series Num	
2ELD2	Dual-axis DC Servo Drive Series

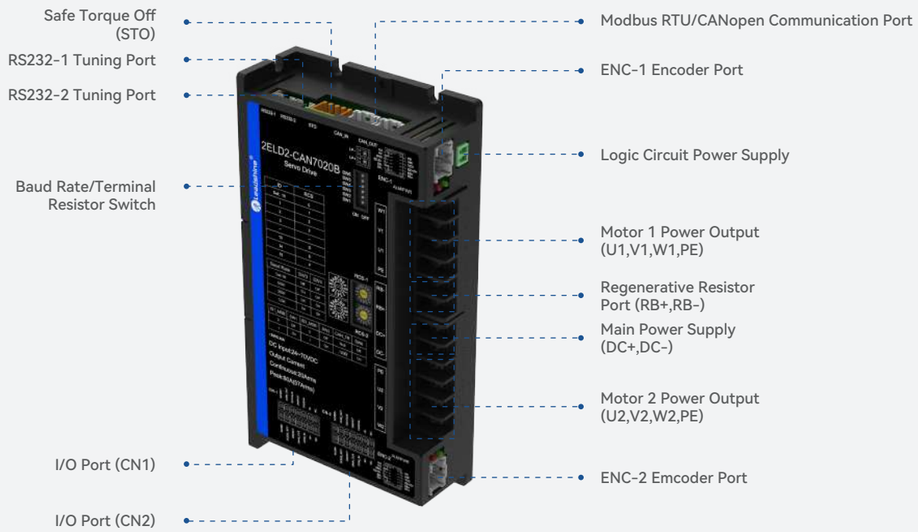
Communication protocol	
RS	Pulse train + Modbus RTU
CAN	CANopen + Analogue

Rated Voltage	
70	24-70VDC

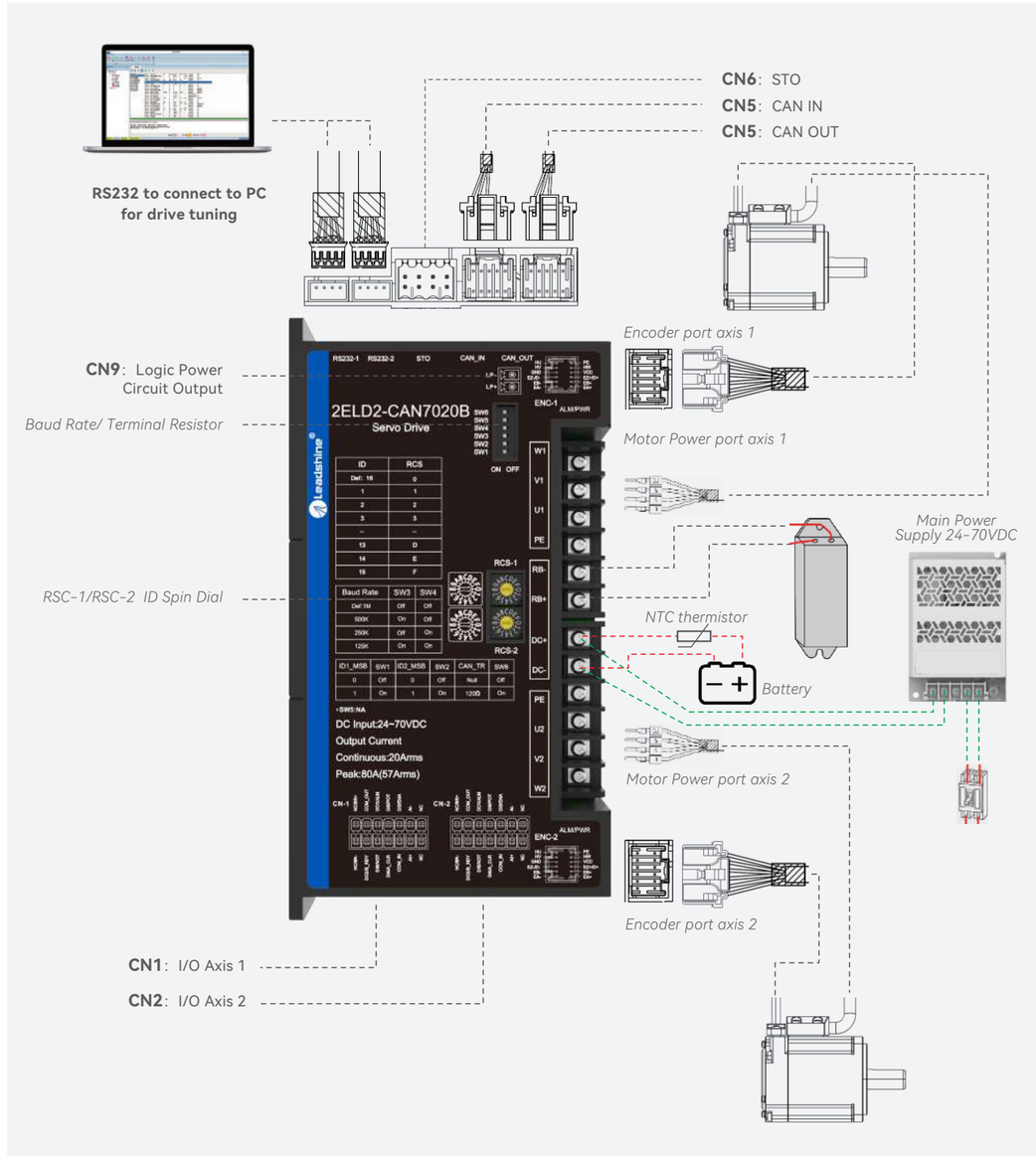
Rated Current			
20	20Arms	30	30Arms

Version	
B	With Brake Output
Blank	Without Brake Output

Ports & Connectors

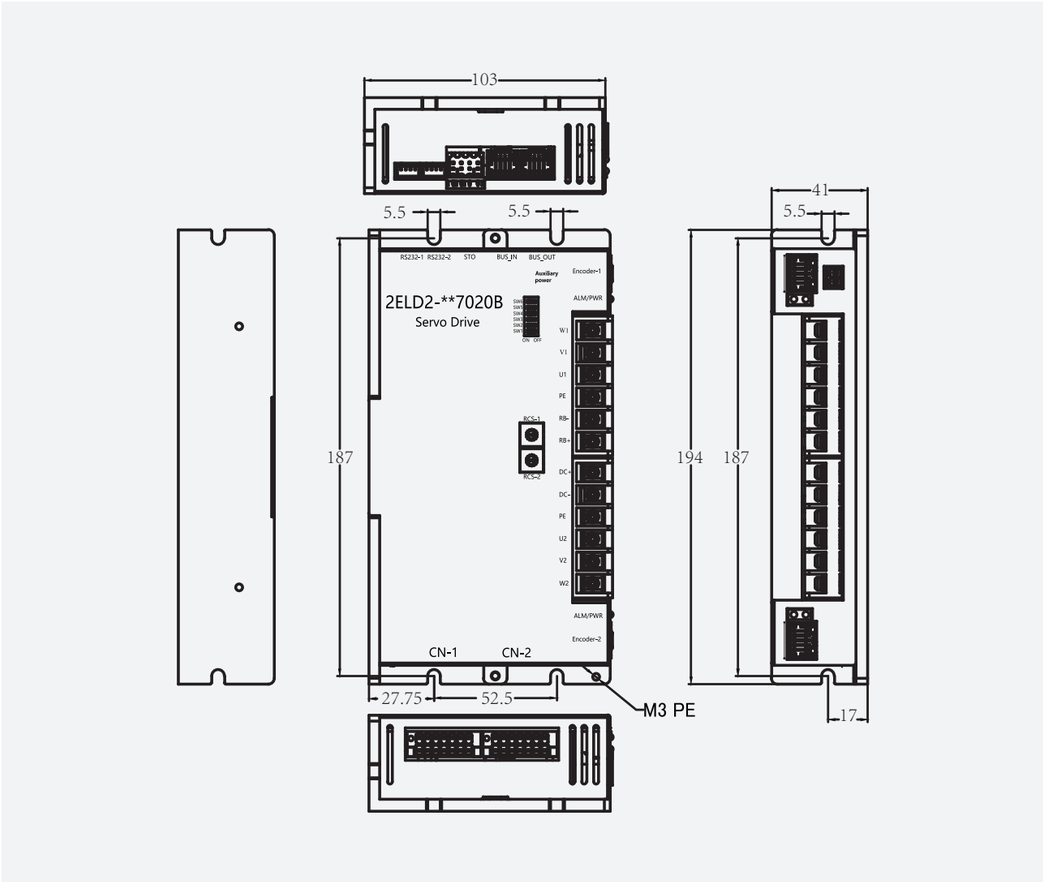


2ELD2 & Peripheral Wiring Diagram



2ELD2-**7020/7030B

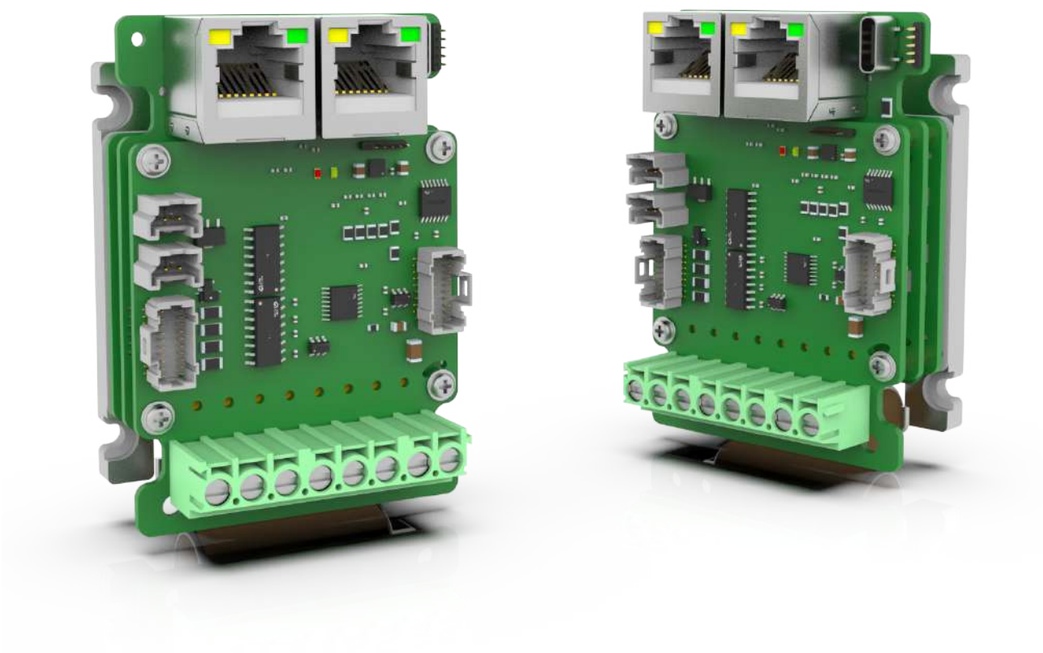
Unit: mm



Specifications

2ELD2 series		2ELD2-RS7020B 2ELD2-CAN7020B	2ELD2-RS7030B 2ELD2-CAN7030B
Rated Current (Arms)		20	30
Peak Current (Arms)		57	64
Main power supply		24 ~ 70VDC	
Direct Drive Holding Brake		Yes	
Drive mode		SVPWM sinusoidal wave drive	
Velocity regulation ratio		5000:1	
Electronic gear ratio		1 ~ 32767/1 ~ 32767	
Matching encoders		Hall signal UVW + ABZ or RS485 encoder (Tamagawa protocol)	
Analog Input		2 analog inputs (AI1/AI2), -10V~+10V, Max. voltage : ±12V - CAN models	
Digital Input		2 pulse differential 5V Digital input (Pulse+direction) – RS models 4 configurable NPN/PNP 24V Digital Inputs	
Digital Output		1 holding brake output; 2 configurable single-ended NPN/PNP 24V, 8mA digital outputs	
Alarm		Current circuit error, DC bus overvoltage, DC bus undercurrent, overcurrent, overcurrent on IPM, motor overload, regenerative resistor overload, encoder disconnected, encoder initialization error, encoder data error, excessive position deviation, overspeed, I/O configuration error, EEPROM parameter saving CRC checksum error, positive/negative position limit valid, forced alarm input valid	
Indicator light		Red & Green LED	
Tuning Software		Motion Studio 2	
Motion Studio 2		Configure parameters for current, position and velocity loop. Parameter uploading using .lsr parameter files. Drive and motor data monitoring using oscilloscope.	
Communication Port		RS-232, 1: 1; RS485, 0: N (0 ≤ N ≤ 127), CANopen / Modbus	
Load-Inertia		Smaller than 20 times motor inertia	
Environmental requirements	Storage condition	Avoid direct sunlight. Keep away from heat generating devices, dust, oil, corrosive liquid/gas and places with strong vibration or high humidity. Prohibit combustible gas and conductive material waste.	
	Temperature	-20℃ ~ + 45℃ (Please allow air circulation if >45℃)	
	Storage temperature	-20℃ ~ + 65℃	
	Humidity	40—90%RH (Condensation free)	
	Installation	Vertical and level to ground	

EtherCAT



Mini DC Servo Drive

ELD3 Series

ELD3 Series Mini DC Servo Drive is the latest DC servo drive launched to an ever progressively improving Leadshine DC servo drive product lines. A whole new line of servo products featuring compact full functional smaller drive than the size of the palm with power ratings ranging from 50W up to 750W.

Our ELD3 Series supports EtherCAT communication protocol with many others to be released soon. The series come with Safe Torque Off SIL3, Logic Power Circuit, Brake Output, Full Closed Loop Control among many other servo functions that are not available on previous generation drives.

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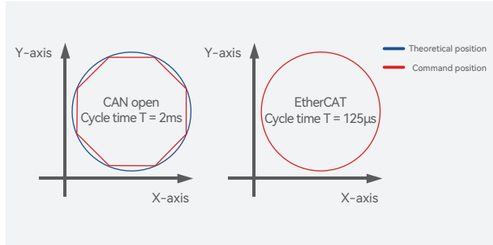
Overview

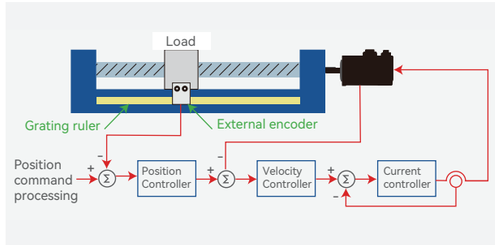
Communication cycles

Communication cycle time as short as 125μs for better position control.



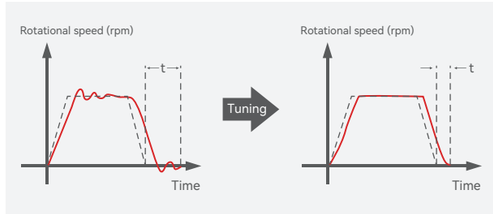
Full closed loop control

ELD3 series servo drives support full closed loop control which can eliminate the position deviation due to mechanical gap, and precision will have an obvious improvement.



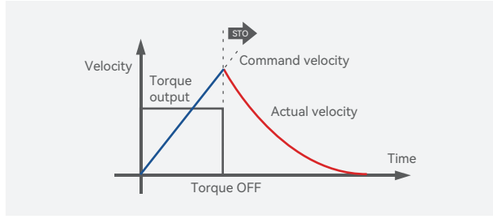
Easy tuning

Follow a few simple steps to get servo tuning done. Tested and proven to be easy to use and effective.



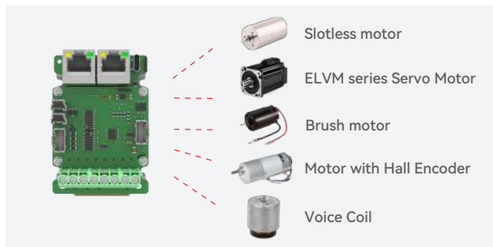
Safe Torque Off (SIL3)

When Safe Torque Off is activated, internal circuit will cut off motor power supply immediately, guaranteeing operator and machine safety.



Can be matched to many types of motors

Slotless Motor, ELVM Series DC Servo Motor, Brush Motor, Motor with Hall Encoder, Voice Coil.



Part Numbers

ELD3 - EC 70 05 B M

Drive Series	
ELD3	ELD3 Series Mini Servo Drive

Communication protocol	
EC	EtherCAT

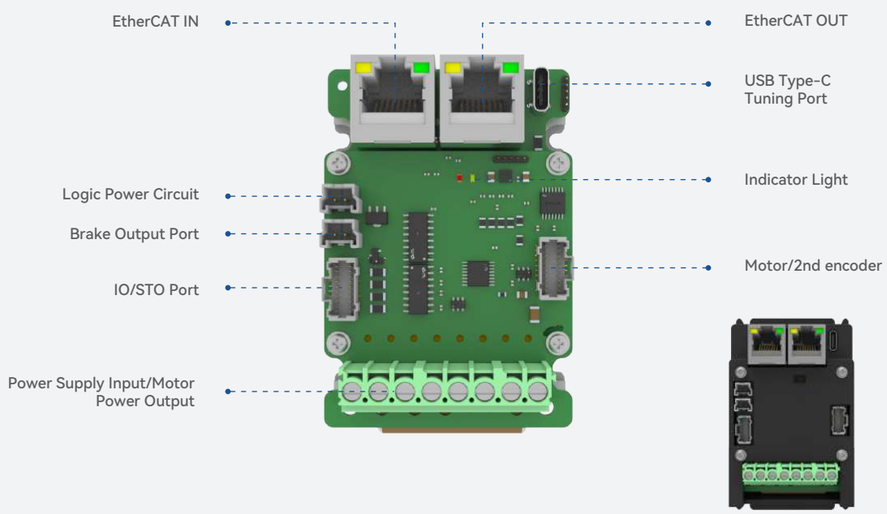
Rated Voltage	
70	24-70VDC

Housing	
M	Without Housing
H	With Housing

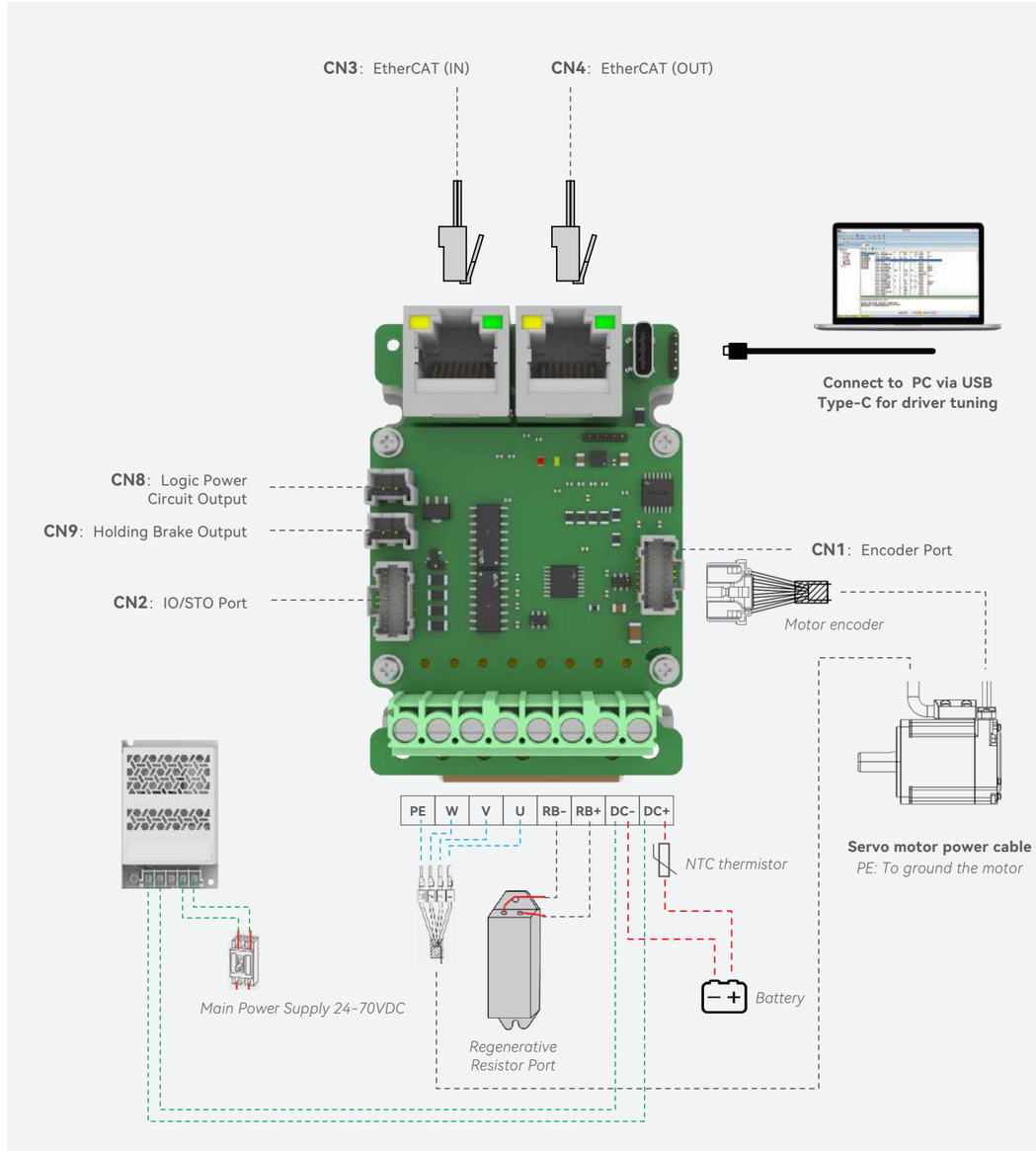
Brake	
B	With Brake Output

Rated Current			
01	01Arms	10	10Arms
05	05Arms	20	20Arms

Ports & Connectors

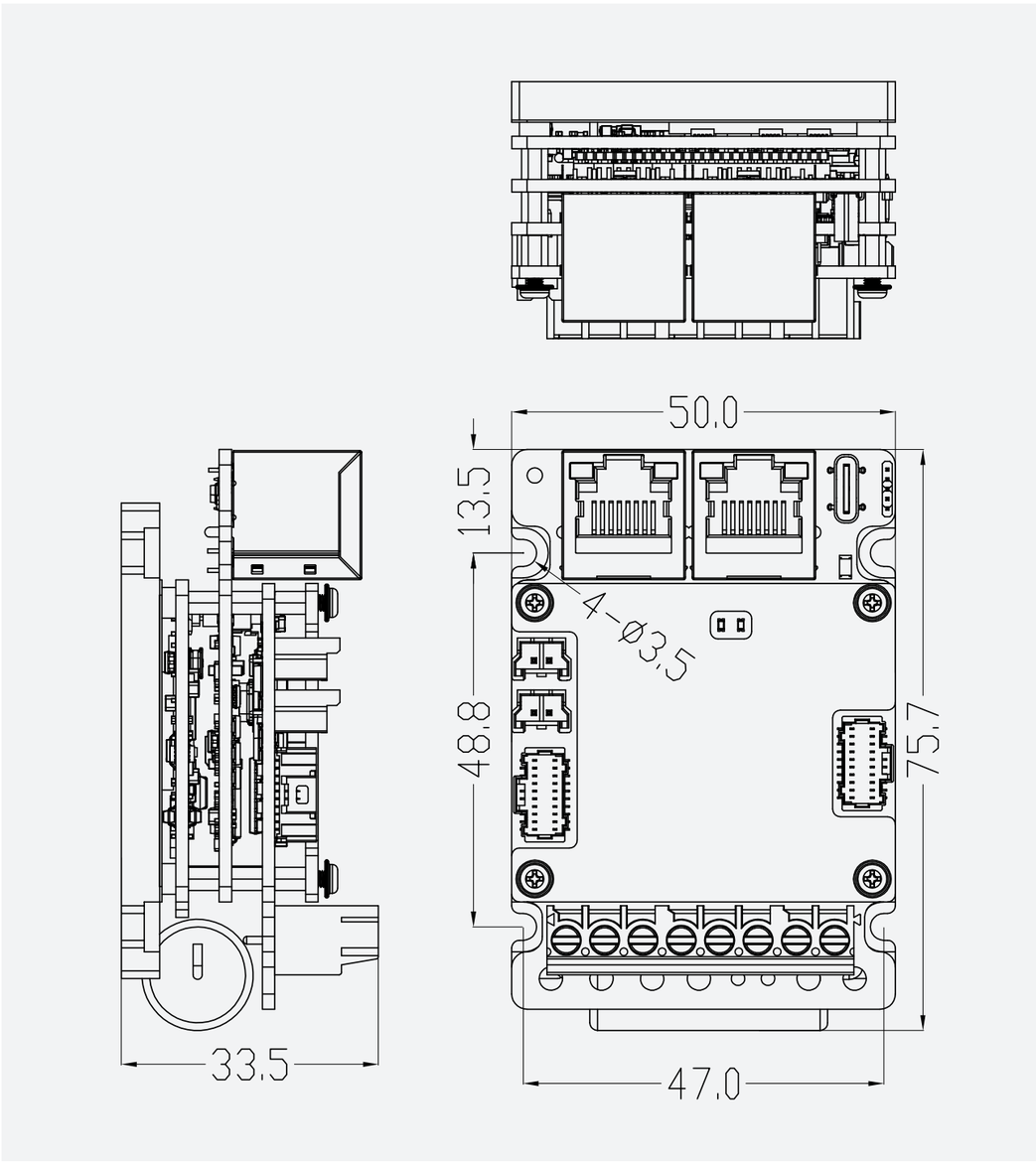


ELD3 & Peripheral Wiring Diagram



ALL ELD3-**BM

Unit: mm



ELD3 Series	ELD3-EC7001BM	ELD3-EC7005BM	ELD3-EC7010BM	ELD3-EC7020BM
Rated Power(W)	50W	200W	400W	750W
Rated Current (Arms)	1	5	10	20
Peak Current (Arms)	2.5	12.5	25	50
Control Circuit Power Supply	24VDC , -25%~+25%			
Main Power Supply	24-70Vdc			
Cooling	Cooling through metal mount plate			
Dimension H*L*W(mm)	76*50*33.5			
Tuning Port	USB Type-C Tuning Port. Can be tuned without connecting to main power supply			
Analogue Input	2 Analogue Input, Input Voltage -10V~+10V, Max. Voltage: ±12V			
Digital Input	6 Digital Inputs (Supports NPN and PNP)			
Digital Output	3 Digital Outputs (3 double-ended)			
STO	Available, SIL3 grading			
2nd Encoder	Hall signal UVW + ABZ or RS485 encoder（Tamagawa protocol）			
Brake Output	Available			
Communication Port	RJ45 EtherCAT port			

Control Mode		
Drive Mode	FOC Vector Control	
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)	
Encoder Feedback	RS485 protocol Encoder，ABZ incremental，UVW Hall sensor，BissC(developing)	
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	
DI/DO settings	Digital inputs and outputs can be set accordingly	
Alarm	Overcurrent. Overvoltage. Undervoltage. Overheat. Overload. Overtravel. Single-Phasing. Regenerative resistor error. Position deviation error. Encoder feedback error. Excessive braking rate. EEPROM error	
Software	Driver tuning through Motion Studio Ver. 2.2.x. Parameters tuning in current loop, position loop, velocity loop; Modify I/O signal and motor parameters; Variables(velocity, position deviation, etc.) monitoring using step diagrams	
Communication	USB Type-C	Modbus USB2.0 (No need to connect driver to power supply)
	EtherCAT	RJ45. Communication up to 128 axes to a host
Dynamic Brake	Internal dynamic brake	
Position Comparison	42 position comparison outputs	
Suitable Load Inertia	30 times smaller than motor inertia	
Environment	Temperature	Storage: -20-80℃ (Condensation free); Installation: 0-55℃ (Not frozen)
	Humidity	Under 90%RH (Condensation free)
	Altitude	Up to 1000m above sea level
	Vibration	Less than 0.5G (4.9m/s2) 10-60Hz (non-continuous working)
	IP ratings	IP20

Integrated Servo Motor

iSV2 Series

iSV2 Series Integrated Servo Motor supports Modbus RTU and CANopen protocol (CiA301 & 402 standard protocol) in addition to pulse and directional control. Our integrated servo motor is aimed to save installation wiring work and application where mounting space is very limited.

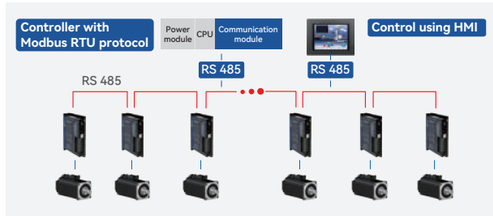
iSV2 Series is available with 200W, 400W, 750W models of different flange sizes (60,80,57,86mm). Motor torque ranges from 0.64Nm up to 2.39Nm (Peak:7.2Nm) and torque overload of 250% to 300% for 3s. All comes with 17Bit magnetic encoder for more precise positioning control.

AGV | CNC Carving | 3D printing | Robots | Medical

Overview

Integrated Servo Motor Features

Modbus RTU communication protocol with RS485 networking communication.

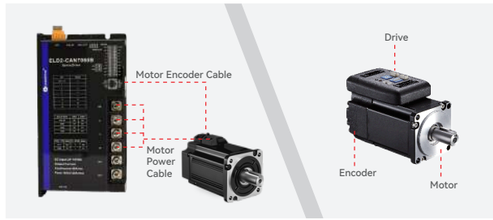


Supports Multiple Communication Protocols

CANopen communication protocol with PDO settings for easier drive setup and 402 observer for drive data monitoring and tuning.

Easy-to-use

Save installation space and installation wiring work.

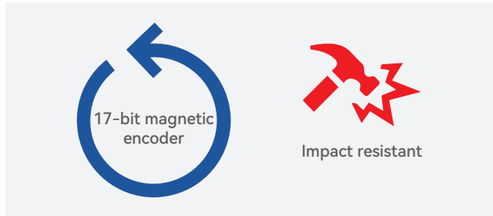


Cooling for Optimal Performance

Cooling vent on the back cover of the motor to ensure optimal continuous motor performance.

High Precision Encoder

17Bit magnetic encoder for precise positioning and stable operation in harsher environment.



Part Numbers

iSV2 - CAN 60 40 V48 G

Motor Series	
iVS2	iSV2 Series Integrated Servo Motor

Communication Protocol	
RS	Modbus RTU / Pulse+Direction
CAN	CANopen

Motor Flange Size	
57	57mm
60	60mm
80	80mm
86	86mm

Motor Brake	
H	Without brake
G	With brake

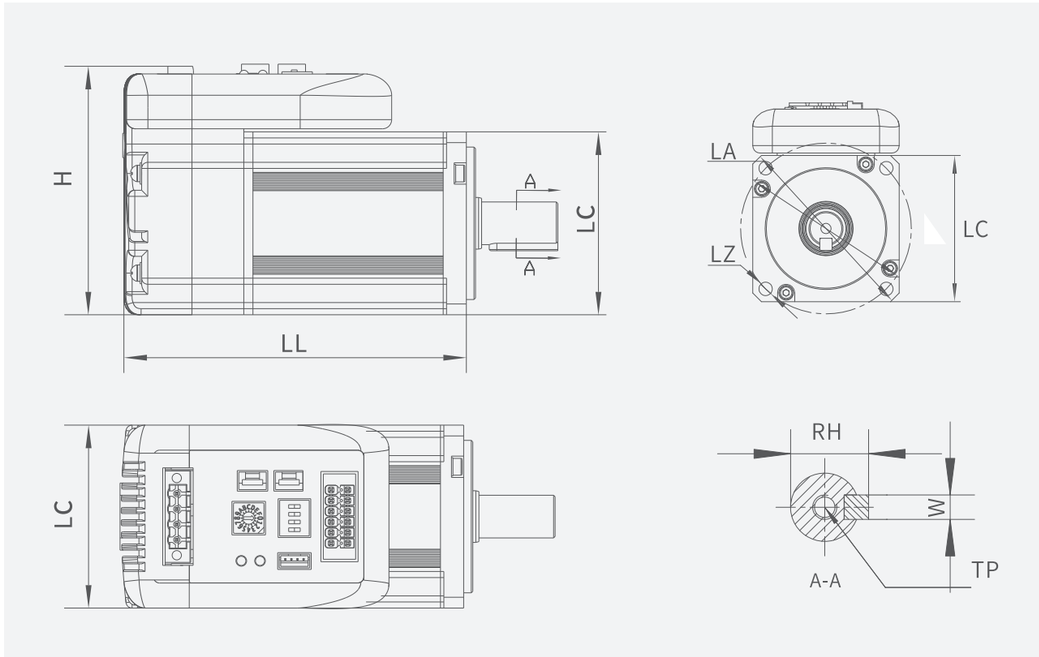
Rated Voltage	
24	24VDC
48	48VDC

Rated Power			
20	200W	75	750W
40	400W		

Ports & Connectors

iSV2 Series

Unit: mm



Model	LC	LL	H	LA	LZ	TP	RH	W
iSV2-CAN6020V24H iSV2-RS6020V24H	60	95.7	79	Φ70	Φ5.5	↧12	16	5
iSV2-CAN6020V24G iSV2-RS6020V24G		124.7						
iSV2-CAN6020V48H iSV2-RS6020V48H		95.7						
iSV2-CAN6020V48G iSV2-RS6020V48G		124.7						
iSV2-CAN6040V48H iSV2-RS6040V48H		112.7						
iSV2-CAN6040V48G iSV2-RS6040V48G		141.7						
iSV2-CAN8075V48H iSV2-RS8075V48H	80	128.8	100	Φ90	Φ6.6		21.5	6
iSV2-CAN8075V48G iSV2-RS8075V48G		160.3						
iSV2-RS5740V48H	60	119	82.2	Φ70	Φ5.2	/	7.7	3
iSV2-RS8675V48H	80	125	100	Φ98	Φ5.6	/	9.69	5

Specifications

iSV2 series	CAN6020V24 RS6020V24	CAN6020V48 RS6020V48	CAN6040V48 RS6040V48 RS5740V48	CAN8075V48 RS8075V48 RS8675V48
Rated Current (Arms)	11	6.5	10	19
Peak Current (Arms)	34	20	28	57
Flange size (mm)	60 (57)			80 (86)
Main power supply	24/48VDC			
Drive mode	SVPWM sinusoidal wave drive			
Velocity regulation ratio	5000:1			
Electronic gear ratio	1 ~ 32767/1 ~ 32767			
Encoder	17Bit incremental magnetic ABZ			
Digital Input	4 configurable NPN/PNP 24V Digital Inputs			
Digital Output	2 configurable single-ended NPN/PNP 24V, 8mA digital outputs			
Digital Output	3 Digital Outputs (3 double-ended)			
Alarm	Current circuit error, DC bus overvoltage, DC bus undercurrent, overcurrent, overcurrent on IPM, motor overload, regenerative resistor overload, encoder disconnected, encoder initialization error, encoder data error, excessive position deviation, overspeed, I/O configuration error, EEPROM parameter saving CRC checksum error, positive/negative position limit valid, forced alarm input valid.			
Indicator light	Red & Green LED			
Tuning Software	Motion Studio 2			
Motion Studio 2	Configure parameters for current, position and velocity loop. Parameter uploading using .lsr parameter files. Drive and motor data monitoring using oscilloscope.			
Communication Port	RS-232，1: 1； CAN，0: N（0 ≤ N ≤ 127），CANopen / Modbus RTU			
Load-Inertia	Smaller than 20 times motor inertia			
Environmental requirements	Storage condition	Avoid direct sunlight. Keep away from heat generating devices, dust, oil, corrosive liquid/gas and places with strong vibration or high humidity. Prohibit combustible gas and conductive material waste.		
	Temperature	-20℃ ~ + 45℃ (Please allow air circulation if >45℃)		
	Storage temperature	-20℃ ~ + 65℃		
	Humidity	40-90%RH （Condensation free）		
	Installation	Vertical and level to ground		

Servo Motors

ELVM Series

Feature:

Power rating: 33W-2kW
Voltage: 24-48V
PMSM construction, high efficiency
Compact design, high overload
Insulation class: Class F
Protection level: IP65
Encoder: 17Bit magnetic encoder / 2500 ppr encoder / 23Bit optical single-turn encoder
Optional accessory: brake
Frame size: 25mm, 40mm, 60mm, 80mm, 130mm

ELVM-M17 Series

- High inertia
- Max speed 4000rpm
- 17Bit magnetic encoder
- Power: 50W-2kW

ELVM-B25 Series

- High inertia
- Max speed 4000rpm
- 2500 ppr encoder
- Power: 50W-1kW

Part Numbers

ELVM - 60 20 V48 E - H - M17 - HD

(1) (2) (3) (4) (5) (6) (7) (8)

(1) Series Num	
ELVM	ELVM Series servo motor

(2) Frame Size	
25	25mm
40	40mm
60	60mm
80	80mm
130	130mm

(3) Rated Output Power			
03	33W	05	50W
10	100W	20	200W
40	400W	60	600W
75	750W	100	1000W
120	1200W	150	1500W
200	2000W		

(4) Voltage	
V24	24V
V36	36V
V48	48V
V60	60V

(5) Motor Type	
E	With brake, oil seal
F	No brake, oil seal

(6) Inertia Ratio	
L	Low
M	Medium
H	High

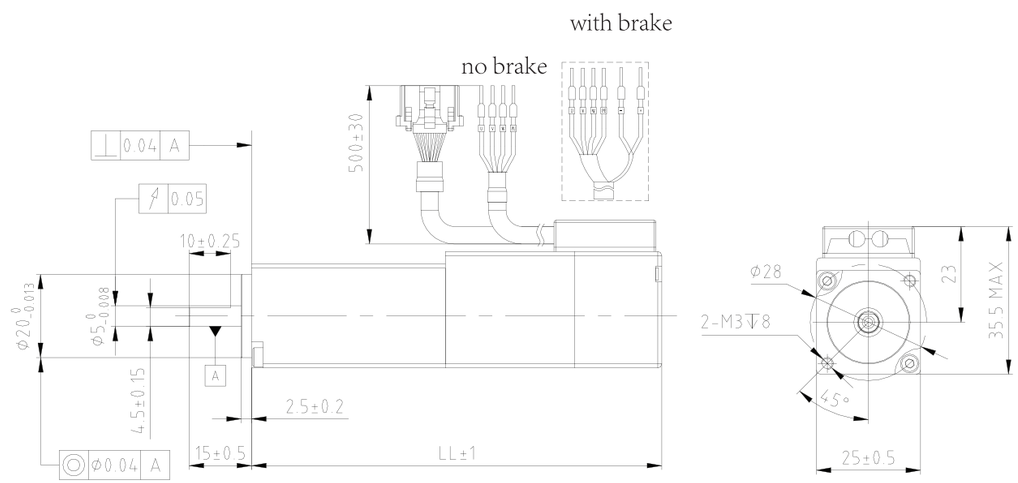
(7) Encoder Type	
M17	17Bit magnetic encoder
B25	2500 ppr optical encoder
E23S	23Bit optical single-turn encoder

(8) Connect type	
Blank	Direct connector
HD	Aviation connector-HD

25mm Frame size & 33W

Type Name	Frame Size (mm)	Brake	Voltage (VDC)	Power (W)	Speed (rpm)		Torque (Nm)		Current (Arms)		Encoder	Inertia (kgm^2*10^{-4})	Weight (kg)	Motor Length (mm)
					Rated	Max	Rated	Max	Rated	Max				
2503V24EL-E23S	□ 25	√	24-48	33	3000	6000	0.105	0.315	2.7	8.1	23Bit optical single turn encoder	0.007	0.26	98.5
2503V24FL-E23S		×										0.006	0.19	72.5

Dimensions



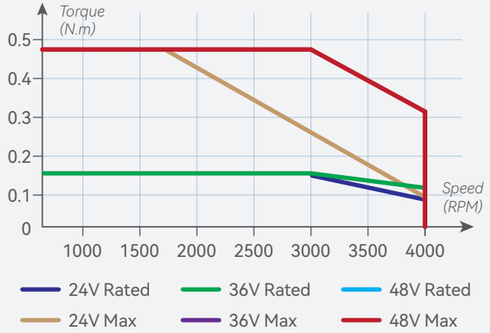
Motor model (ELVM)	LL
2503V24EL-E23S	98.5
2503V24FL-E23S	72.5

40mm Frame size & 50W~100W

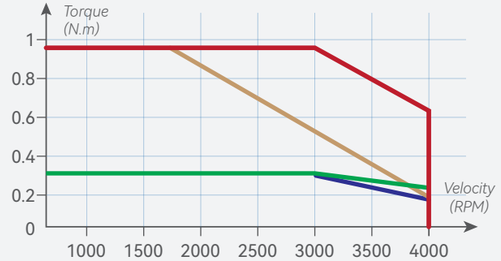
Type Name	Frame Size (mm)	Brake	Voltage (VDC)	Power (W)	Speed (rpm)		Torque (Nm)		Current (Arms)		Encoder	Inertia (kgm^2*10^{-4})	Weight (kg)	Motor Length (mm)
					Rated	Max	Rated	Max	Rated	Max				
4005V48EH-M17-HD	□ 40	√	24-48	50	3000	4000	0.16	0.48	3	9.3	17Bit multi-turn absolute magnetic encoder	0.046	0.49	84
4005V48FH-M17-HD		×										0.036	0.33	56.7
4010V48EH-M17-HD		√		100			0.32	0.96	5.7	17.7		0.072	0.59	95
4010V48FH-M17-HD		×										0.062	0.43	67.7
4005V48EH-B25-HD		√		50			0.16	0.48	3	9.3	2500 ppr increment optical encoder	0.046	0.49	84
4005V48FH-B25-HD		×										0.036	0.33	56.7
4010V48EH-B25-HD		√		100			0.32	0.96	5.7	17.7		0.072	0.59	95
4010V48FH-B25-HD		×										0.062	0.43	67.7

Speed-Torque characteristics

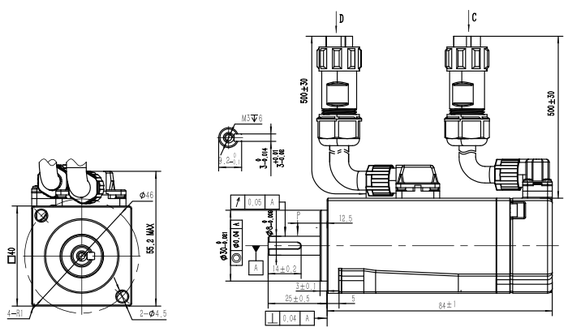
50W Motor (ELVM-4005)



100W Motor (ELVM-4010)



Dimensions



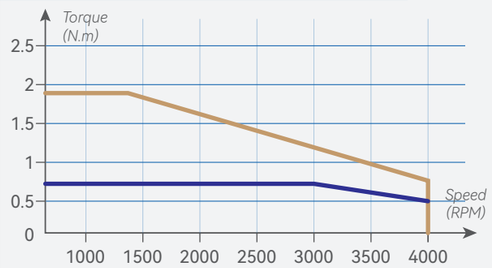
Motor model (ELVM)	LL
4005V48EH-***-HD	84
4005V48FH-***-HD	56.7
4010V48EH-***-HD	95
4010V48FH-***-HD	67.7

60mm Frame size & 200W~600W

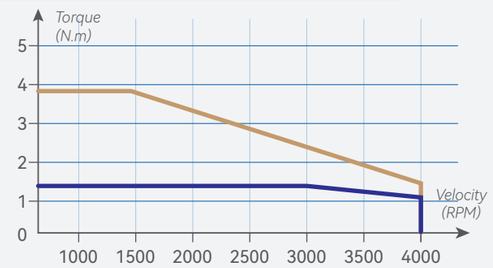
Type Name	Frame Size (mm)	Brake	Voltage (VDC)	Power (W)	Speed (rpm)		Torque (Nm)		Current (Arms)		Encoder	Inertia (kgm^2*10^{-4})	Weight (kg)	Motor Length (mm)
					Rated	Max	Rated	Max	Rated	Max				
6020V24EH-M17-HD	□ 60	√	24	200	3000	4000	0.64	1.92	10	31	17Bit multi-turn absolute magnetic encoder	0.3	1.4	101.1
6020V24FH-M17-HD		×										0.29	1	71.8
6020V48EH-M17-HD		√	48						6	18.6		0.3	1.4	101.1
6020V48FH-M17-HD		×										0.29	1	71.8
6040V24EH-M17-HD		√	24	400			1.27	3.81	19.9	61.7		0.59	1.7	118.1
6040V24FH-M17-HD		×										0.58	1.3	88.8
6040V48EH-M17-HD		√	48						10	31		0.59	1.7	118.1
6040V48FH-M17-HD		×										0.58	1.3	88.8
6060V48EH-M17-HD		√		600			1.91	5.73	15	46.5		0.84	2.14	138.1
6060V48FH-M17-HD		×										0.83	1.74	108.8
6020V24EH-B25-HD		√	24	200			0.64	1.92	10	31	2500 ppr increment optical encoder	0.3	1.4	101.1
6020V24FH-B25-HD		×										0.29	1	71.8
6020V48EH-B25-HD		√	48						6	18.6		0.3	1.4	101.1
6020V48FH-B25-HD		×										0.29	1	71.8
6040V24EH-B25-HD		√	24	400			1.27	3.81	19.9	61.7		0.59	1.7	118.1
6040V24FH-B25-HD		×										0.58	1.3	88.8
6040V48EH-B25-HD		√	48						10	31		0.59	1.7	118.1
6040V48FH-B25-HD		×										0.58	1.3	88.8
6060V48EH-B25-HD		√		600			1.91	5.73	15	46.5		0.84	2.14	138.1
6060V48FH-B25-HD		×										0.83	1.74	108.8

Speed-Torque characteristics

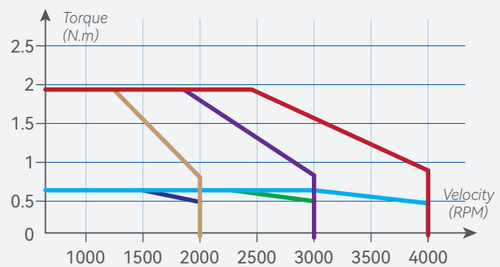
200W Motor (ELVM-6020V24)



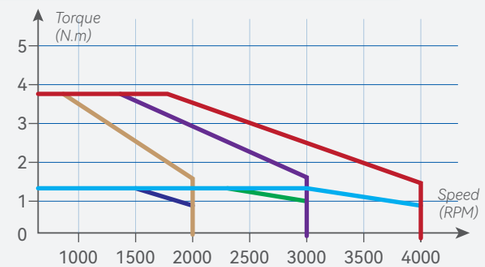
400W Motor (ELVM-6040V24)



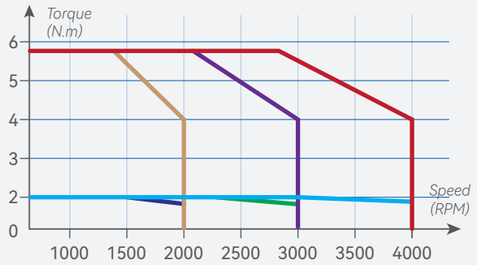
200W Motor (ELVM-6020V48)



400W Motor (ELVM-6040V48)

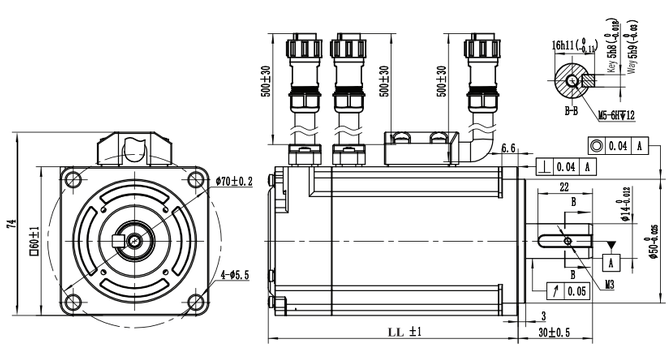


600W Motor (ELVM-6060V48)



24V Rated 36V Rated 48V Rated
24V Max 36V Max 48V Max

Dimensions



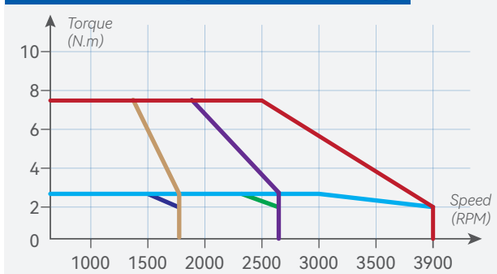
Motor model (ELVM)	LL
6020V**EH-***-HD	101.1
6020V**FH-***-HD	71.8
6040V**EH-***-HD	118.1
6040V**FH-***-HD	88.8
6060V48EH-***-HD	138.1
6060V48FH-***-HD	108.8

80mm Frame size & 750W~1000W

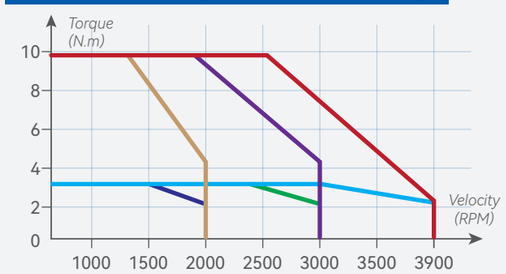
Type Name	Frame Size (mm)	Brake	Voltage (VDC)	Power (W)	Speed (rpm)		Torque (Nm)		Current (Arms)		Encoder	Inertia (kgm^2*10^{-4})	Weight (kg)	Motor Length (mm)
					Rated	Max	Rated	Max	Rated	Max				
8075V48EH-M17-HD	□ 80	√	48	750	3000	3900	2.39	7.17	19	59	17Bit multi-turn absolute magnetic encoder	1.65	2.7	121.9
8075V48FH-M17-HD		×										1.5	2.12	90.9
80100V48EH-M17-HD		√		1000		4000	3.2	9.6	28	87		1.95	3.2	134.9
80100V48FH-M17-HD		×										1.8	2.8	103.9
8075V48EH-B25-HD		√		750		3900	2.39	7.17	19	59	2500 ppr increment optical encoder	1.65	2.7	121.9
8075V48FH-B25-HD		×										1.5	2.12	90.9
80100V48EH-B25-HD		√		1000		4000	3.2	9.6	28	87		1.95	3.2	134.9
80100V48FH-B25-HD		×										1.8	2.8	103.9

Speed-Torque characteristics

750W Motor (ELVM-8075V48)

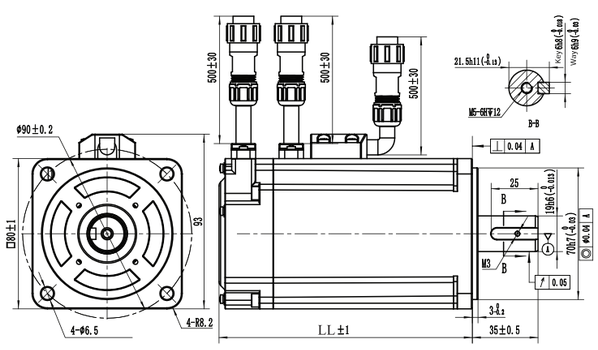


1000W Motor (ELVM-80100V48)



24V Rated 36V Rated 48V Rated
24V Max 36V Max 48V Max

Dimensions



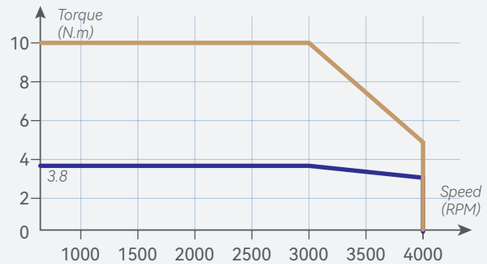
motor model (ELVM)	LL
8075V48EH-***-HD	121.9
8075V48FH-***-HD	90.9
80100V48EH-***-HD	134.9
80100V48FH-***-HD	103.9

130mm Frame size & 1200W~2000W

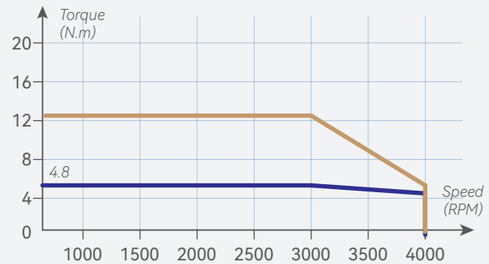
Type Name	Frame Size (mm)	Brake	Voltage (VDC)	Power (W)	Speed (rpm)		Torque (Nm)		Current (Arms)		Encoder	Inertia (kgm^2*10^{-4})	Weight (kg)	Motor Length (mm)
					Rated	Max	Rated	Max	Rated	Max				
130120V48EM-M17-HD	□ 130	√	48	1200	3000	4000	3.8	10	30	79	17Bit multi-turn absolute magnetic encoder	13.3	6.5	174
130120V48FM-M17-HD		×										11.63	5.2	151
130150V48EM-M17-HD		√		1500			4.8	12.5	37.5	98		15.55	6.9	180
130150V48FM-M17-HD		×										13.88	5.6	157
130200V48EM-M17-HD		√		2000			6.4	16	48.5	121.3		17.71	7.7	187
130200V48FM-M17-HD		×										16.04	6.4	164

Speed-Torque characteristics

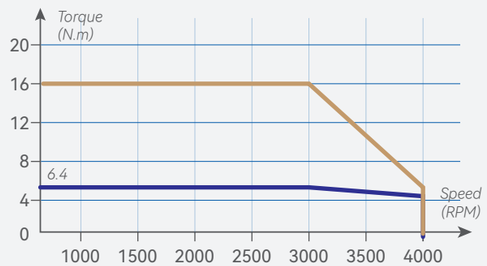
1200W Motor (ELVM-130120V48)



1500W Motor (ELVM-130150V48)

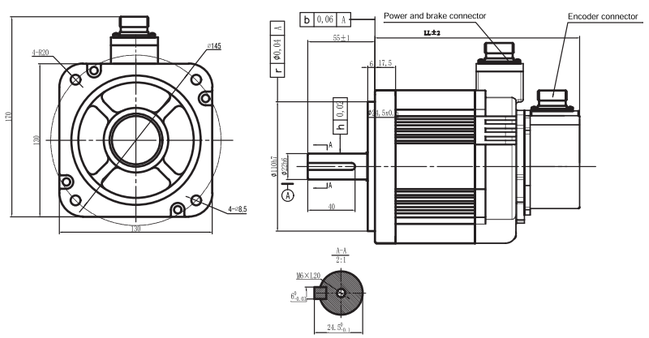


2000W Motor (ELVM-130200V48)



24V Rated
24V Max
36V Rated
36V Max
48V Rated
48V Max

Dimensions



Motor model (ELVM)	LL
130120V48EM-M17-HD	174
130120V48FM-M17-HD	151
130150V48EM-M17-HD	180
130150V48FM-M17-HD	157
130200V48EM-M17-HD	187
130200V48FM-M17-HD	164

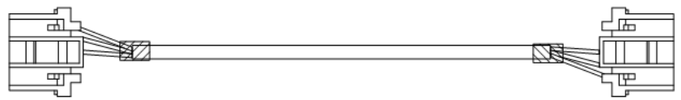
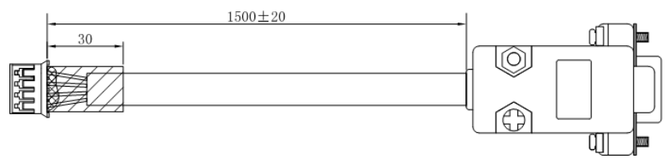
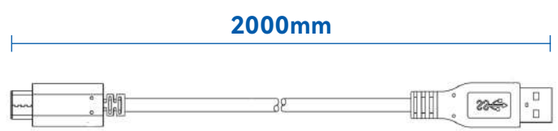
Cable Selection

The cables which are available for our 2ELD2/ELD2 series servo drives and ELVM series 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 2ELD2/ELD2 series servo drives, an CABLE-PC-1 tuning cable is optionally provided to connect the drives to a PC for tuning purposes.

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

Servo Drive Cables

Communication cable	CABLE-TX*M*-LD2	 *M*represents the length of the cables. For example, 1M5 = 1.5 meters Available length: 0.3M, 0.5M, 1.0M, 1.5M, 3M, 5M, 7M, 10M
	CABLE-TX*M*-BUS	*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
Tuning cable	CABLE-PC-1	
	CABLE-TYPEC2M0	

Motor cable model number

CABLE RZS H 3M0 - 1 1 3 - T - R

Sign	Meaning
CABLE	Cable identification

Sign	Cable type
RZ	Without brake motor cable
RZS	With brake motor cable

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

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

Sign	Drive side terminal type
1	Wire ferrule
2	Spade terminal

Sign	Cable specifications	Sign	Cable specifications
1	20AWG	5	14AWG
2	18AWG	6	12AWG
3	16AWG	7	19AWG
4	15AWG	8	Reserved

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

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

Sign	Customized models
R	Direct plug for backfacing wiring
***	Customized

Encoder cable model number

CABLE BMA H 3M0 - 1 1 3 - 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	Sign	Length
1M5	1.5 meter	13M0	13 meter
3M0	3 meter	15M0	15 meter
5M0	5 meter	***	Please contact leadshine teams for other lengths
7M0	7 meter		
10M0	10 meter		

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

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

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

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

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

Motor cable model number

CABLE - SC H 3M0 - 1 1 3 - T

Sign	Meaning
CABLE	Cable identification

Sign	Cable type
SC	Brake cable
***	Reserved

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

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

Sign	Drive side terminal type
1	Wire ferrule
***	Reserved

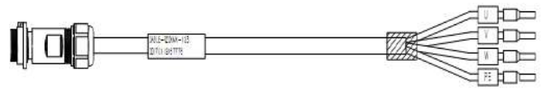
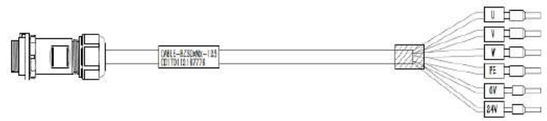
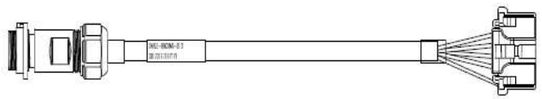
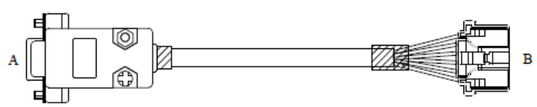
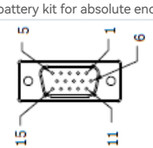
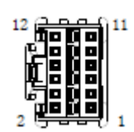
Sign	Special requirements
Blank	Fixed cable
T	Flexible cable
TS	Flexible & oil proof cable
***	Reserved

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	2X0.3mm²
***	Reserved

ELVM Series - 40mm

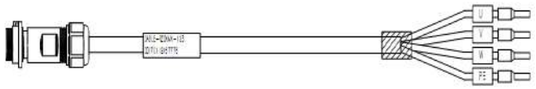
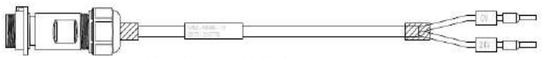
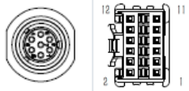
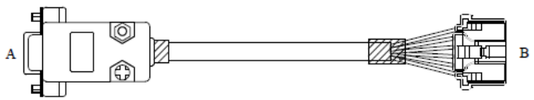
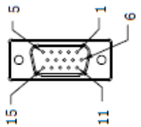
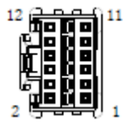
- Frame size: 40mm
- Power rating: 50W-100W
- Motor model: ELVM40**V48*H-***-HD

Cable Type		Diagram	Pin
Motor power	Without brake	 CABLE-RZD*M*-123	
	With brake	 CABLE-RZSD*M*-123	1 Red U 2 Blue V 3 Brown W 4 Yellow Green PE 5* Black 0V 6* White 24V *5&6 terminal for motor with brake
Motor encoder	Incremental	 CABLE-BMD*M*-213 *(17Bit magnetic encoder)*	
	Absolute	CABLE-BMAD*M*-223 *(17Bit magnetic encoder)*	A Terminal B 1 PE 1 2 5V 5 3 0V 6 4 SD+ 7 5 SD- 8 6* BAT+ - 7* BAT- - *Terminal 6 & 7 is to be connected to battery kit for absolute encoder
		 CABLE-LD2-BM*M* *(2500 ppr encoder)*	 

PIN-A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
PIN-B	11	9	6	3	2	1	7	8	4	-	12	10	5	-	-
Signal	A+	B+	0V	W+	U+	PE	Z+	Z-	V+	V-	A-	B-	+5V	W-	U-

ELVM Series - 60mm

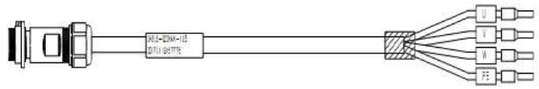
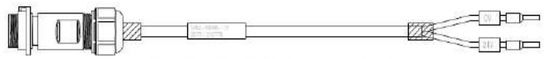
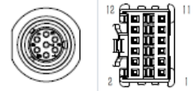
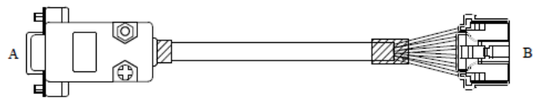
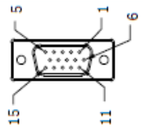
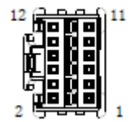
- Frame size: 60mm
- Power rating: 200W (48V)
- Motor model: ELVM6020V48*H-***-HD

Cable Type		Diagram	Pin
Motor power		 **CABLE-RZD*M*-123**	1 Red U; 2 Blue V; 3 Brown W; 4 Yellow Green PE
Motor brake		 **CABLE-SCD*M*-113**	1 Red 24V; 2 Black 0V
Motor encoder	Incremental	**CABLE-BMD*M*-213** *(17Bit magnetic encoder)*	
	Absolute	**CABLE-BMAD*M*-223** *(17Bit magnetic encoder)*	A Terminal B; 1 PE 1; 2 5V 5; 3 0V 6; 4 SD+ 7; 5 SD- 8; 6* BAT+ -; 7* BAT- - *Terminal 6 & 7 is to be connected to battery kit for absolute encoder
		 **CABLE-LD2-BM*M*** *(2500 ppr encoder)*	 

	PIN-A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	PIN-B	11	9	6	3	2	1	7	8	4	-	12	10	5	-	-
	Signal	A+	B+	0V	W+	U+	PE	Z+	Z-	V+	V-	A-	B-	+5V	W-	U-

ELVM Series - 60mm

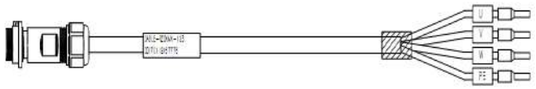
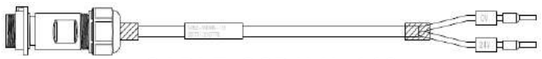
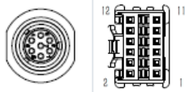
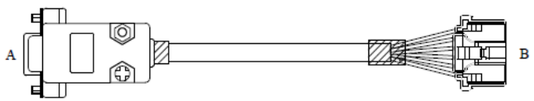
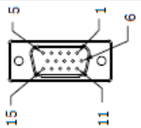
- Frame size: 60mm
- Power rating: 200W(24V)&400W(48V)
- Motor model: ELVM6020V24*H-***-HD/ELVM6040V48*H-***-HD

Cable Type		Diagram	Pin
Motor power		 **CABLE-RZD*M*-143**	1 Red U; 2 Blue V; 3 Brown W; 4 Yellow Green PE
Motor brake		 **CABLE-SCD*M*-113**	1 Red 24V; 2 Black 0V
Motor encoder	Incremental	**CABLE-BMD*M*-213** *(17Bit magnetic encoder)*	
	Absolute	**CABLE-BMAD*M*-223** *(17Bit magnetic encoder)*	A Terminal B; 1 PE 1; 2 5V 5; 3 0V 6; 4 SD+ 7; 5 SD- 8; 6* BAT+ -; 7* BAT- - *Terminal 6 & 7 is to be connected to battery kit for absolute encoder
		 **CABLE-LD2-BM*M*** *(2500 ppr encoder)*	 

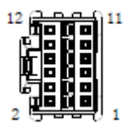
	PIN-A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	PIN-B	11	9	6	3	2	1	7	8	4	-	12	10	5	-	-
	Signal	A+	B+	0V	W+	U+	PE	Z+	Z-	V+	V-	A-	B-	+5V	W-	U-

ELVM Series - 60mm&80mm

- Frame size: 60mm&80mm
- Power rating: 400W(24V)&600W&750W
- Motor model: ELVM6040V24*H-***-HD/ELVM6060V48*H-***-HD/ ELVM8075V48*H-***-HD

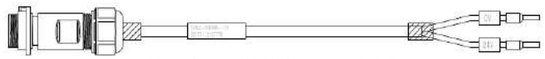
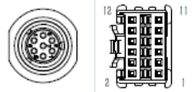
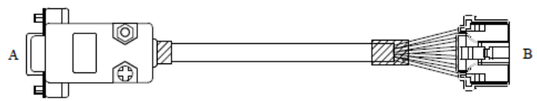
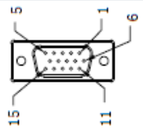
Cable Type		Diagram	Pin
Motor power		 CABLE-RZD*M*-253	1 Red U; 2 Blue V; 3 Brown W; 4 Yellow Green PE
Motor brake		 CABLE-SCD*M*-113	1 Red 24V; 2 Black 0V
Motor encoder	Incremental	CABLE-BMD*M*-213 *(17Bit magnetic encoder)*	
	Absolute	CABLE-BMAD*M*-223 *(17Bit magnetic encoder)*	A Terminal B; 1 PE 1; 2 5V 5; 3 0V 6; 4 SD+ 7; 5 SD- 8; 6* BAT+ -; 7* BAT- - *Terminal 6 & 7 is to be connected to battery kit for absolute encoder
		 CABLE-LD2-BM*M* *(2500 ppr encoder)*	

	PIN-A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	PIN-B	11	9	6	3	2	1	7	8	4	-	12	10	5	-	-
	Signal	A+	B+	0V	W+	U+	PE	Z+	Z-	V+	V-	A-	B-	+5V	W-	U-

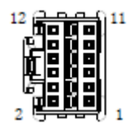


ELVM Series - 80mm

- Frame size: 80mm
- Power rating: 1000W
- Motor model: ELVM80100V48*H-***-HD

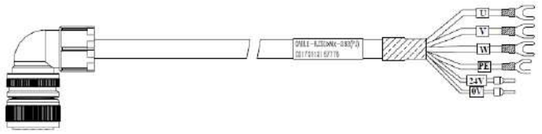
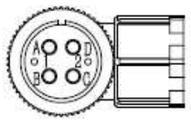
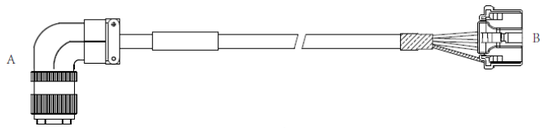
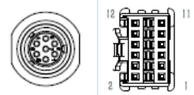
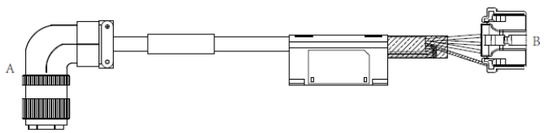
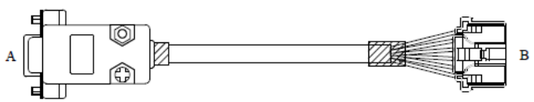
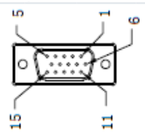
Cable Type		Diagram	Pin
Motor power		CABLE-RZD*M*-263	1 Red U; 2 Blue V; 3 Brown W; 4 Yellow Green PE
Motor brake		 CABLE-SCD*M*-113	1 Red 24V; 2 Black 0V
Motor encoder	Incremental	CABLE-BMD*M*-213 *(17Bit magnetic encoder)*	
	Absolute	CABLE-BMAD*M*-223 *(17Bit magnetic encoder)*	A Terminal B; 1 PE 1; 2 5V 5; 3 0V 6; 4 SD+ 7; 5 SD- 8; 6* BAT+ -; 7* BAT- - *Terminal 6 & 7 is to be connected to battery kit for absolute encoder
		 CABLE-LD2-BM*M* *(2500 ppr encoder)*	

	PIN-A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	PIN-B	11	9	6	3	2	1	7	8	4	-	12	10	5	-	-
	Signal	A+	B+	0V	W+	U+	PE	Z+	Z-	V+	V-	A-	B-	+5V	W-	U-



ELVM Series - 130mm

- Frame size: 130mm
- Power rating: 1200W-2000W
- Motor model: ELVM130**0V48*-***-HD

Cable Type		Diagram	Pin
Motor power		 CABLE-RZSD*M*-282	
Motor encoder	Incremental	 CABLE-BMD*M*-212 *(17Bit magnetic encoder)*	
	Absolute	 CABLE-BMAD*M*-222 *(17Bit magnetic encoder)*	
		 CABLE-LD2-BM*M* *(2500 ppr encoder)*	

1	Red	U
2	Blue	V
3	Brown	W
4	Yellow Green	PE
5*	Black	0V
6*	White	24V

*5&6 terminal for motor with brake

A	Terminal	B
1	PE	1
2	5V	5
3	0V	6
4	SD+	7
5	SD-	8
6*	BAT+	-
7*	BAT-	-

*Terminal 6 & 7 is to be connected to battery kit for absolute encoder

PIN-A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
PIN-B	11	9	6	3	2	1	7	8	4	-	12	10	5	-	-
Signal	A+	B+	0V	W+	U+	PE	Z+	Z-	V+	V-	A-	B-	+5V	W-	U-

Typical configuration examples

ELVM-M17 Series

Type Name ELVM Series	Matched Drive		Matched Cable			
	CANopen	RS485	Motor Cable	Motor +Brake Cable	Encoder Cable	Brake Cable
4005V48EH-M17-HD	ELD2-CAN7005B	ELD2-RS7005	/	CABLE-RZSD*M*-123	CABLE-BMAD*M*-223 (Multi-turn)	/
4005V48FH-M17-HD			CABLE-RZD*M*-123	/		
4010V48EH-M17-HD			/	CABLE-RZSD*M*-123		
4010V48FH-M17-HD			CABLE-RZD*M*-123	/		
6020V24EH-M17-HD	ELD2-CAN7010B	ELD2-RS7010	CABLE-RZD*M*-143	/		CABLE-SCD*M*-113
6020V24FH-M17-HD				/		/
6020V48EH-M17-HD			CABLE-RZD*M*-123	/		CABLE-SCD*M*-113
6020V48FH-M17-HD				/		/
6040V24EH-M17-HD	ELD2-CAN7020B 2ELD2-CAN7020B	ELD2-RS7020B 2ELD2-RS7020B	CABLE-RZD*M*-253	/	— — — —	CABLE-SCD*M*-113
6040V24FH-M17-HD				/		/
6040V48EH-M17-HD	ELD2-CAN7010B	ELD2-RS7010	CABLE-RZD*M*-143	/	CABLE-BMD*M*-213 (Single-turn)	CABLE-SCD*M*-113
6040V48FH-M17-HD				/		/
6060V48EH-M17-HD	ELD2-CAN7015B	ELD2-RS7015B	CABLE-RZD*M*-253	/		CABLE-SCD*M*-113
6060V48FH-M17-HD				/		/
8075V48EH-M17-HD	ELD2-CAN7020B 2ELD2-CAN7020B	ELD2-RS7020B 2ELD2-RS7020B		/		CABLE-SCD*M*-113
8075V48FH-M17-HD				/		/
80100V48EH-M17-HD	ELD2-CAN7030B 2ELD2-CAN7030B	ELD2-RS7030B 2ELD2-RS7030B	CABLE-RZD*M*-263	/		CABLE-SCD*M*-113
80100V48FH-M17-HD				/		/
130120V48EM-M17-HD	ELD2-CAN7040B	ELD2-RS7040B	CABLE-RZSD*M*-282		CABLE-BMAD*M*-222 (Multi-turn)	/
130120V48FM-M17-HD						
130150V48EM-M17-HD					— — — —	
130150V48FM-M17-HD						
130200V48EM-M17-HD	ELD2-CAN7060B	ELD2-RS7060B			CABLE-BMD*M*-212 (Single-turn)	
130200V48FM-M17-HD						

ELVM-B25 Series

Type Name ELVM Series	Matched Drive		Matched Cable			
	CANopen	RS485	Motor Cable	Motor +Brake Cable	Encoder Cable	Brake Cable
4005V48EH-B25-HD	ELD2-CAN7005B	ELD2-RS7005	/	CABLE-RZSD*M*-123	CABLE-LD2-BM*M* (Single-turn)	/
4005V48FH-B25-HD			CABLE-RZD*M*-123	/		
4010V48EH-B25-HD			/	CABLE-RZSD*M*-123		
4010V48FH-B25-HD			CABLE-RZD*M*-123	/		
6020V24EH-B25-HD	ELD2-CAN7010B	ELD2-RS7010	CABLE-RZD*M*-143	/		CABLE-SCD*M*-113
6020V24FH-B25-HD				/		/
6020V48EH-B25-HD			CABLE-RZD*M*-123	/		CABLE-SCD*M*-113
6020V48FH-B25-HD				/		/
6040V24EH-B25-HD	ELD2-CAN7020B 2ELD2-CAN7020B	ELD2-RS7020B 2ELD2-RS7020B	CABLE-RZD*M*-253	/		CABLE-SCD*M*-113
6040V24FH-B25-HD				/		/
6040V48EH-B25-HD	ELD2-CAN7010B	ELD2-RS7010	CABLE-RZD*M*-143	/		CABLE-SCD*M*-113
6040V48FH-B25-HD				/		/
6060V48EH-B25-HD	ELD2-CAN7015B	ELD2-RS7015B	CABLE-RZD*M*-253	/		CABLE-SCD*M*-113
6060V48FH-B25-HD				/		/
8075V48EH-B25-HD	ELD2-CAN7020B 2ELD2-CAN7020B	ELD2-RS7020B 2ELD2-RS7020B		/		CABLE-SCD*M*-113
8075V48FH-B25-HD				/		/
80100V48EH-B25-HD	ELD2-CAN7030B 2ELD2-CAN7030B	ELD2-RS7030B 2ELD2-RS7030B	CABLE-RZD*M*-263	/		CABLE-SCD*M*-113
80100V48FH-B25-HD				/		/

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