Servo Motor

- Better reliability with IP ratings of IP65 in addition to higher max. speed/torque and overload rate up to 300%.
- Can be matched to many types of motors
  Slotless Motor, ELVM Series DC Servo Motor, Brush Motor, Motor with Hall Encoder, Drive wheels

Overload **300%**

Ports & Connectors

Drive	Current (Arms)		Rated power (W)	Main power supply	Dimension (mm)
	Rated	Peak			
ELD2-RS7005	5	11	100	24-70VDC	25.5*79.5*118
ELD2-CAN7005B	5	15			25.5*79.5*140
ELD2-RS7010	10	24	400		25.5*79.5*118
ELD2-CAN7010B	10	30			25.5*79.5*140
ELD2-**7015B	15	32	600		175*101.5*33
ELD2-**7020B	20	57	750		
ELD2-**7030B	30	64	1000		
ELD2-**7040B	40	84	1500		194*103*41
ELD2-**7060B	60	127	2000		
2ELD2-**7020B	20	57	750*2		194*103*41
2ELD2-**7030B	30	64	1000*2		

** : RS or CAN

Comparisons between different series

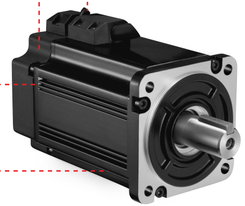
	CANopen	Modbus RTU	Pulse+Direction	Analogue	STO *SIL3*	Logic power supply	Brake power supply
ELD2-RS		•	•	•	7040B/7060B	7040B/7060B	•
ELD2-CAN	•						•
2ELD2-RS		•	•		•	•	•
2ELD2-CAN	•			•	•	•	•

No Brake power supply in ELD2-RS7005/ELD2-RS7010

ELVM Series DC Servo Motor

Ports & Connectors

- **Size**
  Smaller and shorter motor to save installation space.
- **IP ratings**
  IP65 rated including the connectors.
- **Reliability**
  Torque overload up to 300% and more stable operating at higher temperature.



- **Encoder**
  - 17-bit magnetic absolute encoder with better impact resistance.
  - 2500 ppr incremental encoder.

- **Rated Torque: up to 6.4Nm (Max 16Nm)**
- **Rated current: up to 48.5A (Max 121.3A)**
- **Power rating: 50-2000W**
- **Flange size: 40/60/80/130mm**

Specifications

Motor	Flange size (mm)	Voltage (V)	Rated Power (W)	Current (Arms)		Torque(Nm)		Rotational speed (rpm)		Length (mm)
				Rated	Peak	Rated	Peak	Rated	Peak	
ELVM4005V48***	40	24-48	50	3	9.3	0.16	0.48	3000	4000	56.7
ELVM4010V48***		24-48	100	5.7	17.7	0.32	0.96			67.7
ELVM6020V24***	60	24	200	10	31	0.64	1.92			71.6
ELVM6020V48***		48		6	19.6					
ELVM6040V24***		24	400	19.9	61.7	1.27	3.81			88.6
ELVM6040V48***		48		10	31					
ELVM6060V48***		48	600	15	45	1.91	5.73			108.6
ELVM8075V48***	80	48	750	19	59	2.39	7.17	3000	3500	90.9
ELVM80100V48***		48	1000	28	84	3.2	9.6			103.9
ELVM130120V48***	130	48	1200	30	79	3.8	10	3000	4000	151
ELVM130150V48***		48	1500	37.5	98	4.8	12.5			157
ELVM130200V48***		48	2000	48.5	121.3	6.4	16			164

Headquarters
China Leadshine Technology Co., Ltd.
+86 755 26411692 +86 755 26402718
www.leadshine.com
sales@leadshine.com (Sales)
tech@leadshine.com (Technical Support)
15-20/F, Block B, Nanshan i-Valley, Shuguang Community, Xili Town, Nanshan District, Shenzhen 518055, China

North America Office
Leadshine America, Inc.
1-949-608-7270 1-949-638-7298
www.leadshineusa.com
sales@leadshineusa.com (Sales)
support@leadshineusa.com (Technical Support)
26050 Towne Centre Dr.Foothill Ranch, CA 92610 USA
@Leadshine

D230717

Leadshine

Stock Code: 002979

Modbus CANopen STO SIL3

ELD2 & 2ELD2 Series DC Servo Drive
ELVM Series DC Servo Motor

Introduction

ELD2 Series DC Servo Drive

Our ELD2 Series DC servo drive is a compact drive which has been developed to meet a more demanding global market with better functionalities, reliability and cost efficiency. Our ELD2-CAN is our latest generation of CANopen DC servo drive based on CANopen DSP402 protocol. Our ELD2-RS supports Modbus RTU communication protocol in addition to analogue and pulse input control.

2ELD2 Series DC Servo Drive

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 input control.

ELVM Series DC Servo Motor

Our ELVM Series DC Servo Motor is now upgraded to better overloading capability up to 300% and IP ratings of IP65 for application in harsher environment. ELVM series DC servo motor rated current covers from 3A to 48.5A (peak 121.3A) with flange sizes of 40, 60, 80, 130mm. This series comes with 2500ppr incremental encoder and 17-bit absolute multiturn magnetic encoder.

Applications

AGV & Logistics | Printing | Robots | Semiconductor | Medical

Model number structure

ELD2 - RS 70 30 B

Series No.	
ELD2	DC Servo Drive Series
2ELD2	Dual-axis DC Servo Drive Series

Communication Protocol	
RS	Pulse train + 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		

Motor Brake Output	
B	With Brake
Blank	Without Brake

ELVM 60 20 V48 E - H - M17 - HD

Motor Series	
ELVM	ELVM Series DC Servo Motor

Motor Flange Size	
40	40mm
60	60mm
80	80mm
130	130mm

Power Ratings			
05	50W	75	750W
10	100W	100	1000W
20	200W	120	1200W
40	400W	150	1500W
60	600W	200	2000W

Input Voltage	
V24	24VDC
V36	36VDC
V48	48VDC
V60	60VDC

Brake	
E	With Brake
F	No Brake

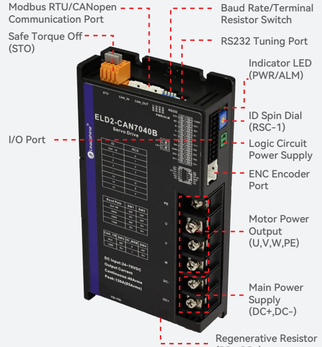
Motor Encoder	
B25	2500 ppr incremental
M17	17-bit optical absolute
E23	23-bit optical absolute

Connector	
HD	SP 21 connector

Inertia	
L	Low
M	Medium
H	High

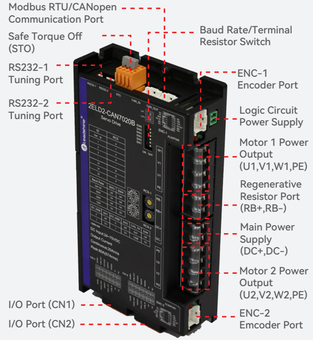
Ports & Connectors

ELD2 Series



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

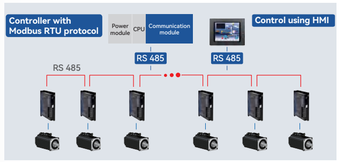
2ELD2 series



Servo Drives & Motors Features

Easier networking between devices

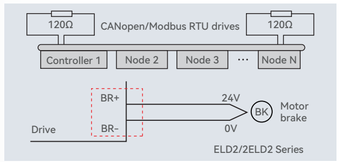
- Modbus RTU communication protocol with RS485 networking communication.



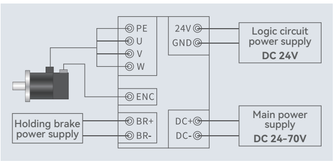
- CANopen communication protocol with PDO settings for easier drive setup and 402 observer for drive data monitoring and tuning.

Better functions for user convenience

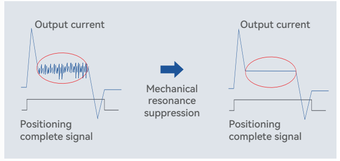
- Integrated terminal switch and holding brake power supply make installation much easier



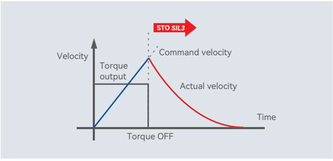
- Logic circuit power supply for safer operation. When main power supply is cut off, logic power supply can maintain partial function of DSP and the power supply to activate motor holding brake.



- Adaptive notch filter for better vibration suppression during operation.



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



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