



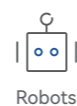
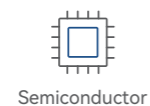
Overview



Dual-Axis DC Servo Drive
2ELD2 Series

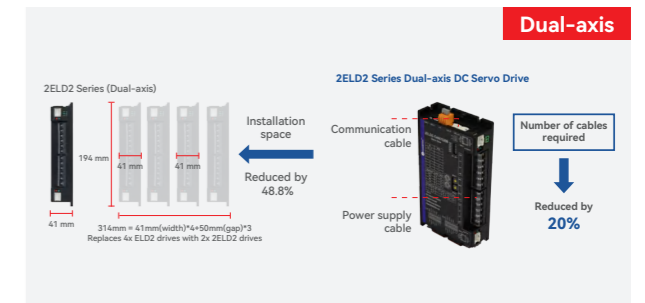
2ELD2 Series DC servo drive is our dual-axis DC servo drive which doesn't compromise on functionalities and quality. This series is aimed at helping our customer to reduce machine cost and also application in which installation space is more demanding.

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.



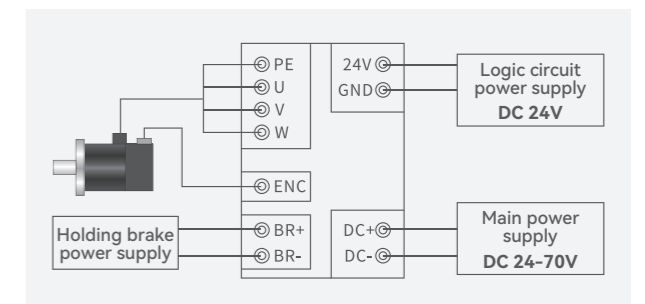
○ Dual-axis drive

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



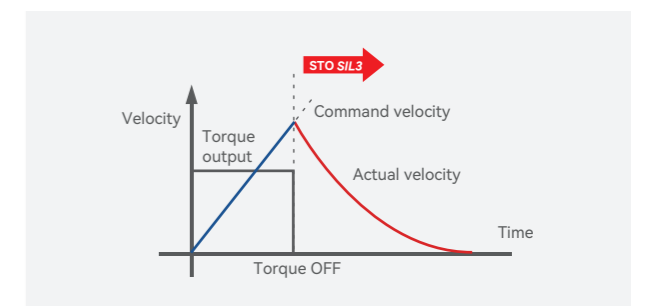
○ Logic Power Circuit

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.



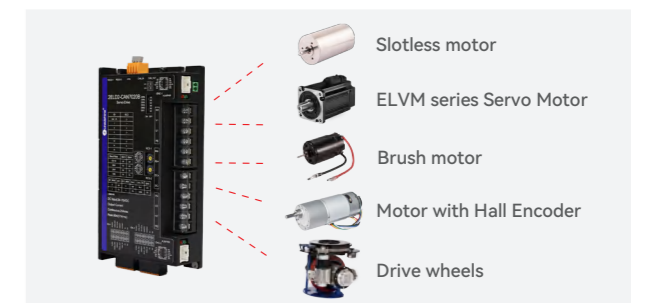
○ Safe Torque Off

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 |

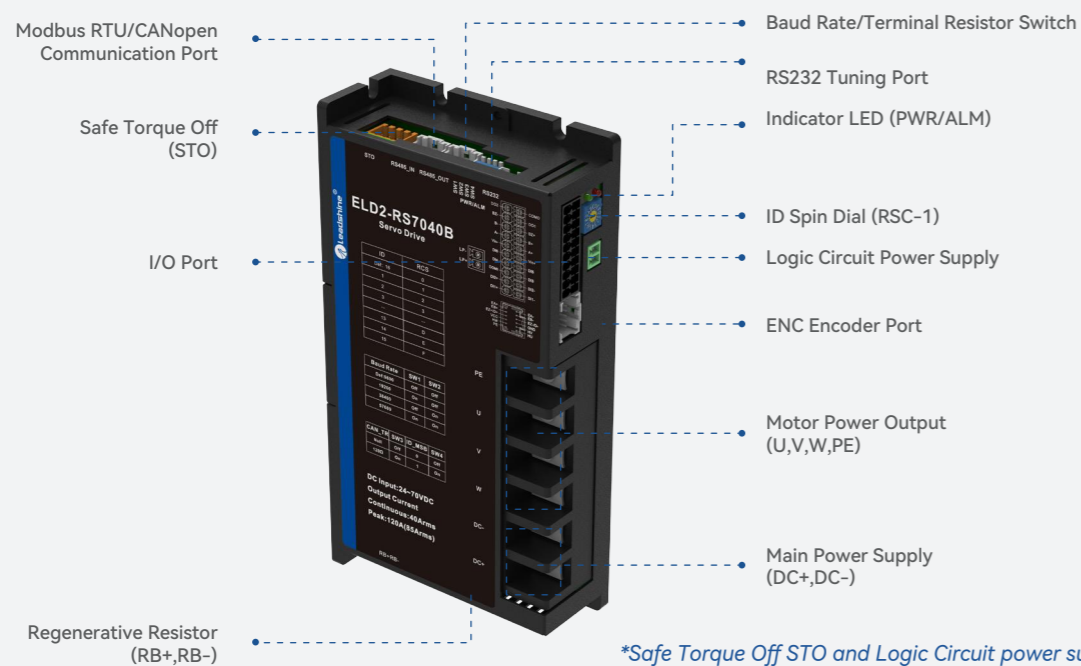
| Communication protocol | |
|------------------------|--------------------------|
| RS | Pulse train + Modbus RTU |
| CAN | CANopen + Analogue |

| Rated Voltage | |
|---------------|----------|
| 70 | 24-70VDC |

| Version | |
|---------|----------------------|
| B | With Brake Output |
| Blank | Without Brake Output |

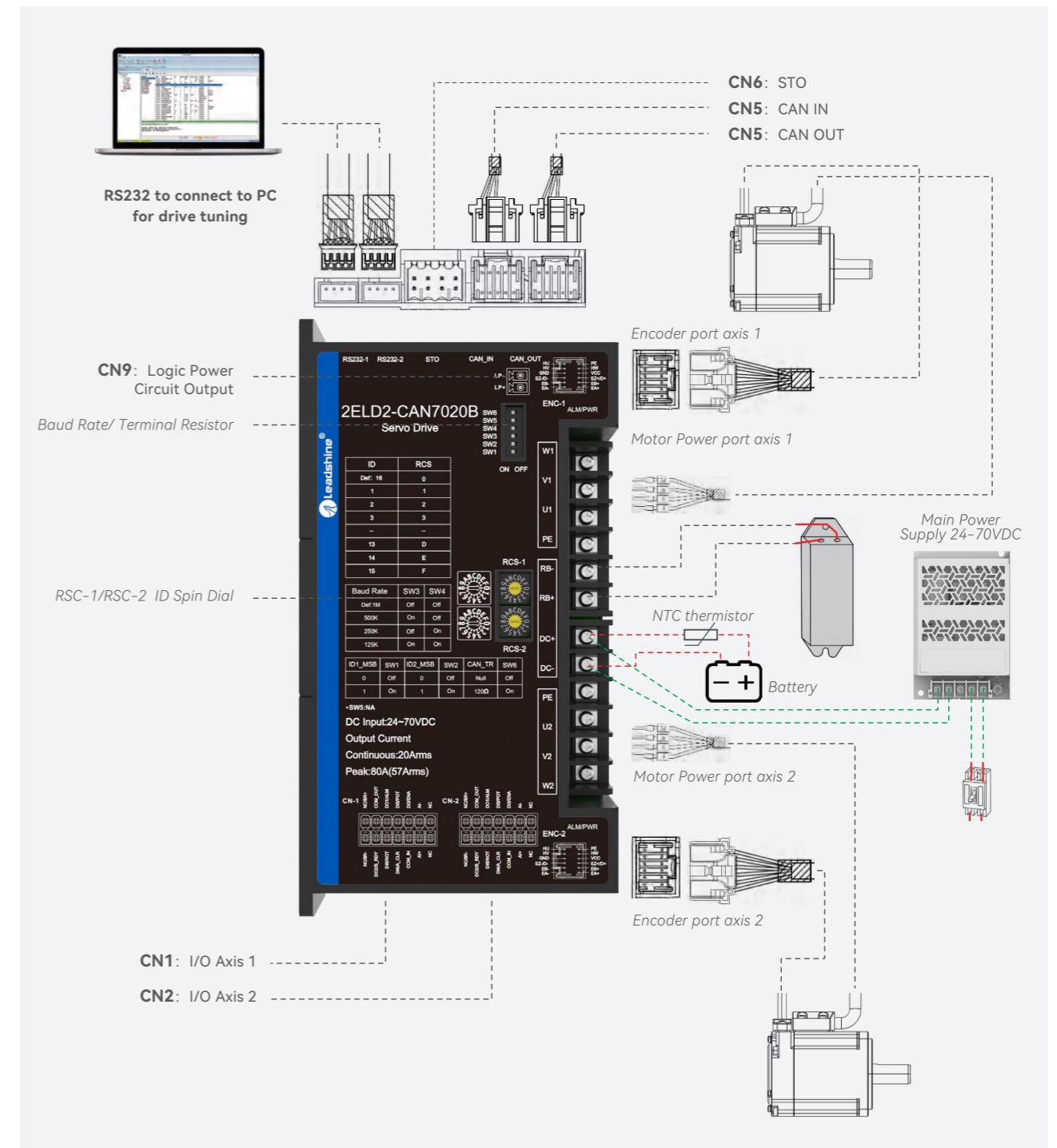
| Rated Current | | | |
|---------------|--------|----|--------|
| 20 | 20Arms | 30 | 30Arms |

Ports & Connectors



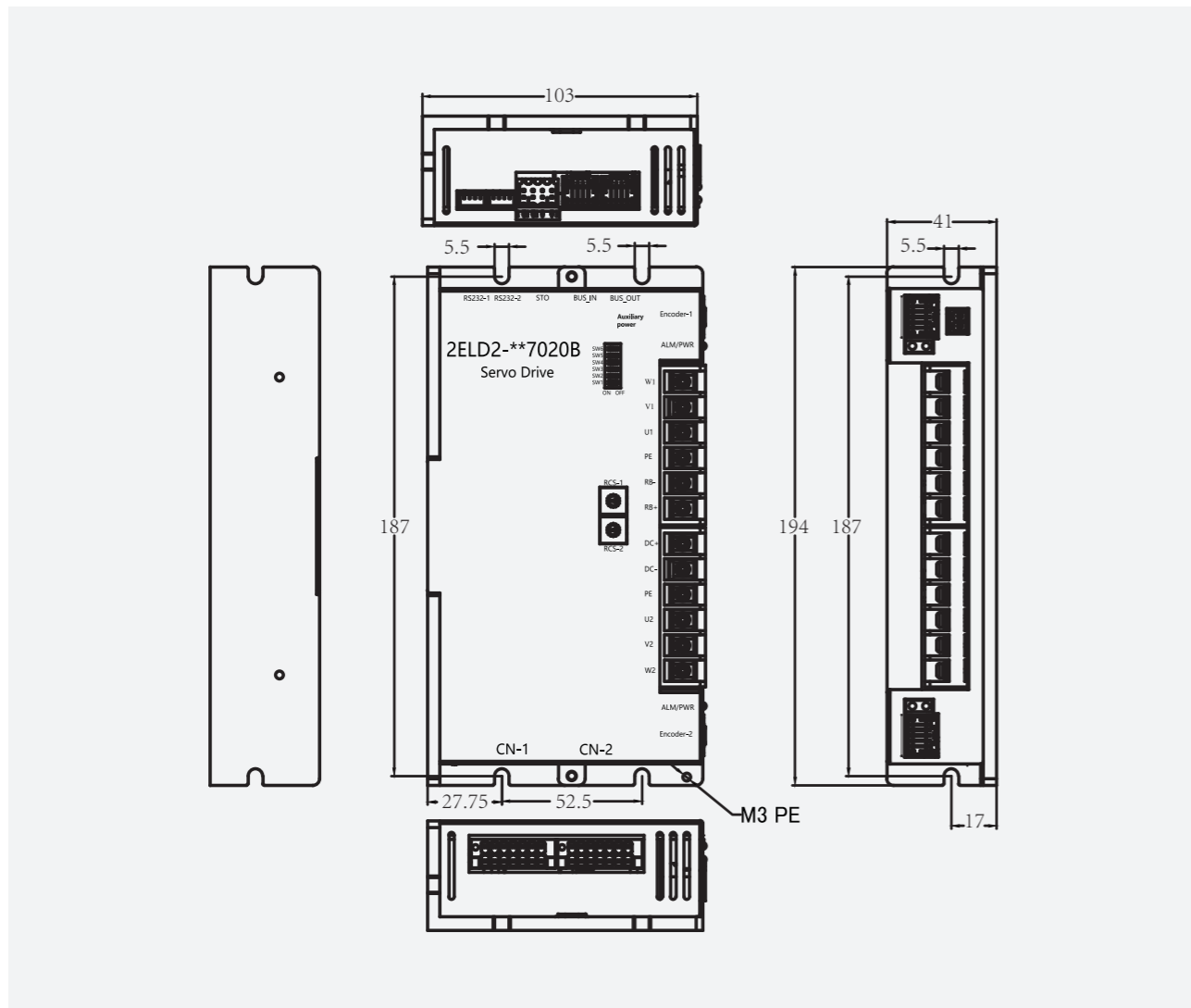
*Safe Torque Off STO and Logic Circuit power supply port are only available for ELD2-7040B/7060B

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°C ~ + 45°C (Please allow air circulation if >45°C) |
| | Storage temperature | -20°C ~ + 65°C |
| | 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 |

(8) Connect type

| | |
|-------|-----------------------|
| Blank | Direct connector |
| HD | Aviation connector-HD |

(7) Encoder Type

| | |
|------|-----------------------------------|
| M17 | 17Bit magnetic encoder |
| B25 | 2500 ppr optical encoder |
| E23S | 23Bit optical single-turn encoder |

(6) Inertia Ratio

| | |
|---|--------|
| L | Low |
| M | Medium |
| H | High |

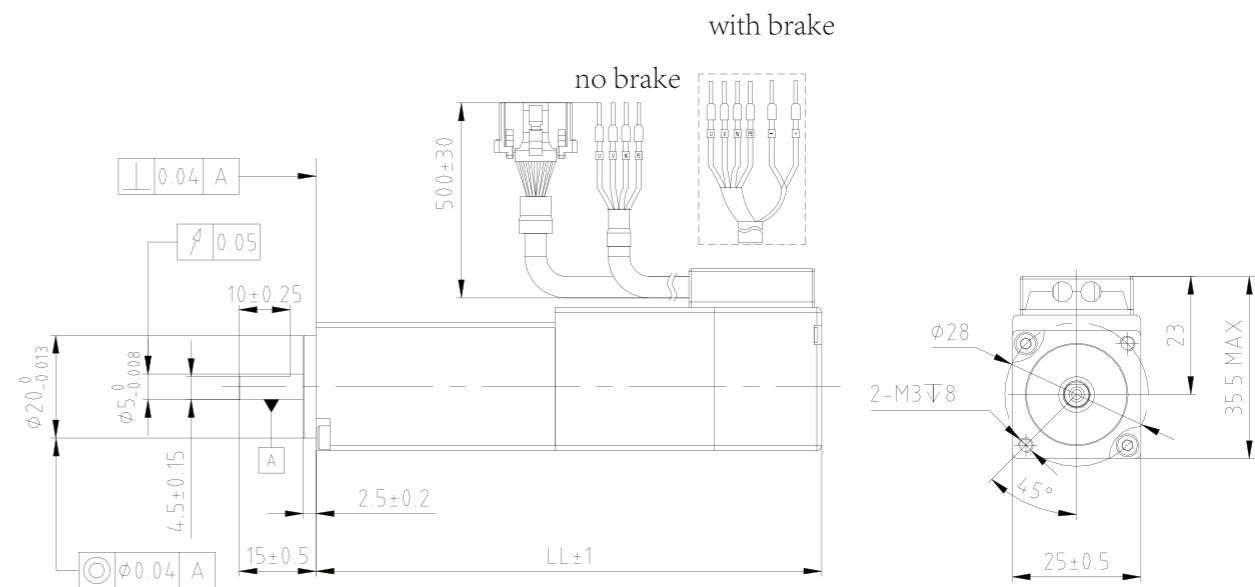
(5) Motor Type

| | |
|---|----------------------|
| E | With brake, oil seal |
| F | No brake, oil seal |

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 | | x | | | | | | | | | | | | |

Dimensions



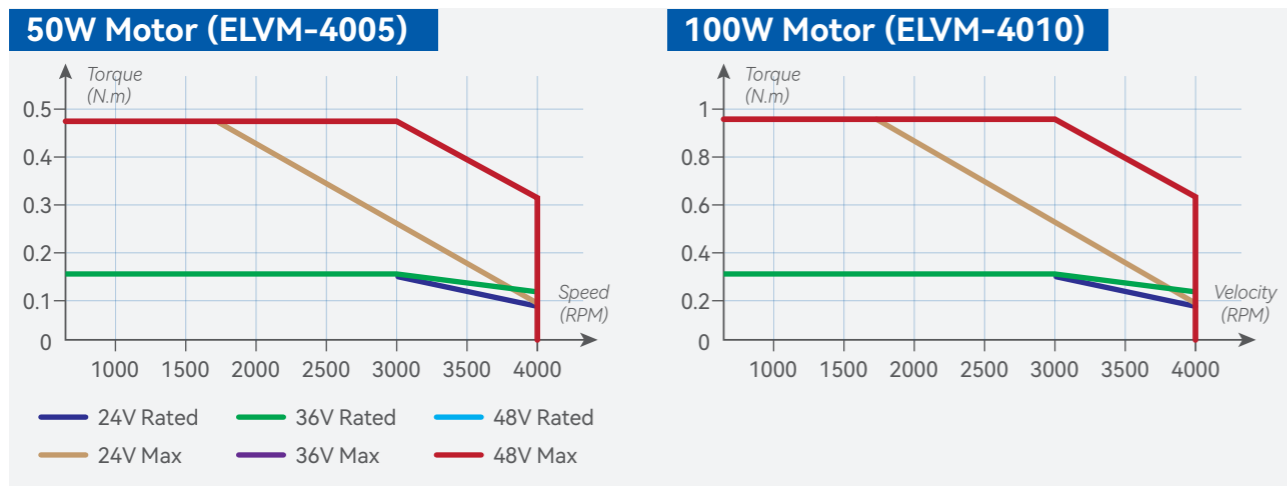
Motor model (ELVM)

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

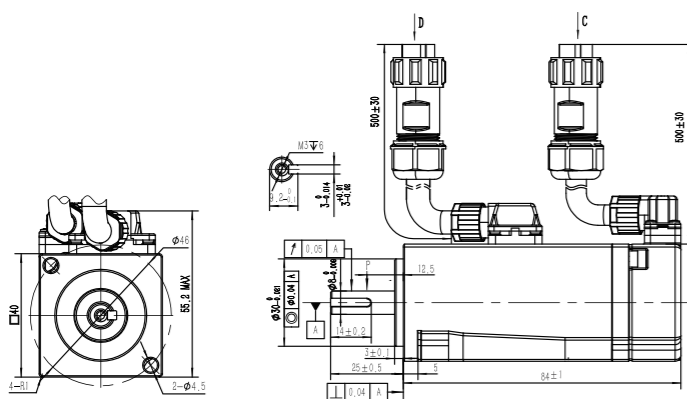
40mm Frame size & 50W~100W

| 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 | | √ | | | | | | | | | | 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 |
| 4005V48FH-B25-HD | | × | | 0.036 | | | 0.33 | 56.7 | | | | | | | | | | | |
| 4010V48EH-B25-HD | | √ | | 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



Dimensions



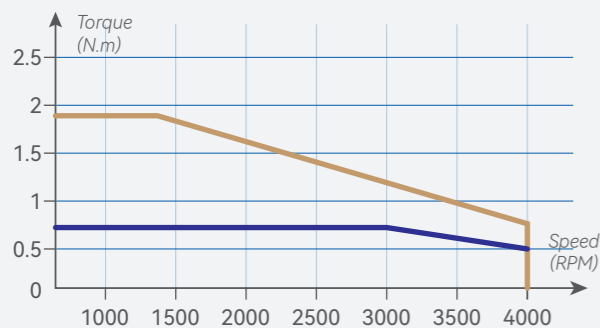
| Motor model (ELVM) | LL |
|--------------------|------|
| 4005V48EH-***-HD | 84 |
| 4005V48FH-***-HD | 56.7 |
| 4010V48EH-***-HD | 95 |
| 4010V48FH-***-HD | 67.7 |

60mm Frame size & 200W~600W

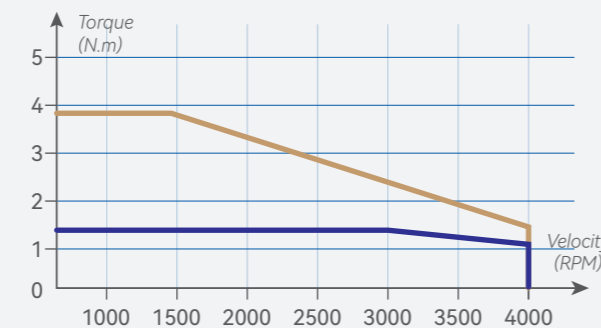
| Type Name | Frame Size (mm) | Brake | Voltage (VDC) | Power (W) | Speed (rpm) | | Torque (Nm) | | Current (Arms) | | Encoder | Inertia (kgm ² *10 ⁻⁴) | Weight (kg) | Motor Length (mm) | | |
|------------------|-----------------|-------|---------------|-----------|-------------|------|-------------|------|----------------|------|--|---|-------------|-------------------|------|-----|
| | | | | | 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 | | √ | | | | | | | | | | 0.3 | 1.4 | 101.1 | | |
| 6020V48FH-M17-HD | | × | | | | | | | | | | | | | 0.29 | 1 |
| 6040V24EH-M17-HD | | √ | | | | | | | | | | 24 | 0.16 | 0.48 | 3 | 9.3 |
| 6040V24FH-M17-HD | | × | | | | | 0.58 | 1.3 | 88.8 | | | | | | | |
| 6040V48EH-M17-HD | | √ | | | | | 0.59 | 1.7 | 118.1 | | | | | | | |
| 6040V48FH-M17-HD | | × | | | | | | | | 0.58 | | | | | | |
| 6060V48EH-M17-HD | | √ | | | | | 0.84 | 2.14 | 138.1 | | | | | | | |
| 6060V48FH-M17-HD | | × | | | | | | | | 0.83 | | 1.74 | 108.8 | | | |
| 6020V24EH-B25-HD | □ 60 | √ | 24 | 200 | 3000 | 4000 | 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 | | √ | | | | | | | | | | 0.3 | 1.4 | 101.1 | | |
| 6020V48FH-B25-HD | | × | | | | | | | | | | | | | 0.29 | 1 |
| 6040V24EH-B25-HD | | √ | | | | | | | | | | 24 | 0.16 | 0.48 | 3 | 9.3 |
| 6040V24FH-B25-HD | | × | | | | | 0.58 | 1.3 | 88.8 | | | | | | | |
| 6040V48EH-B25-HD | | √ | | | | | 0.59 | 1.7 | 118.1 | | | | | | | |
| 6040V48FH-B25-HD | | × | | | | | | | | 0.58 | | | | | | |
| 6060V48EH-B25-HD | | √ | | | | | 0.84 | 2.14 | 138.1 | | | | | | | |
| 6060V48FH-B25-HD | | × | | | | | | | | 0.83 | | 1.74 | 108.8 | | | |

Speed-Torque characteristics

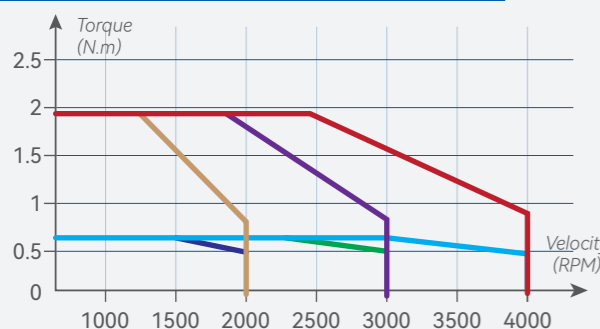
200W Motor (ELVM-6020V24)



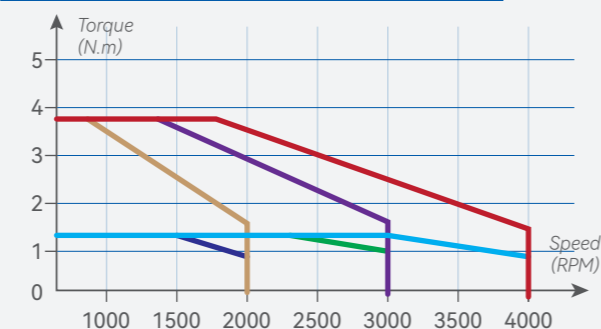
400W Motor (ELVM-6040V24)



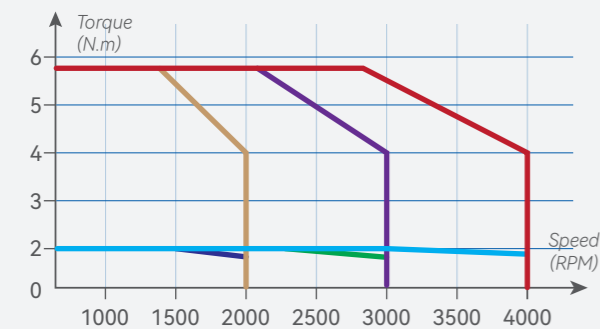
200W Motor (ELVM-6020V48)



400W Motor (ELVM-6040V48)

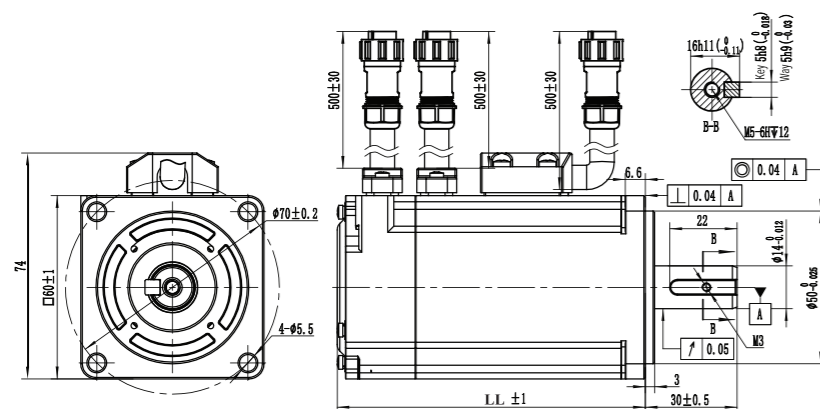


600W Motor (ELVM-6060V48)



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

Dimensions



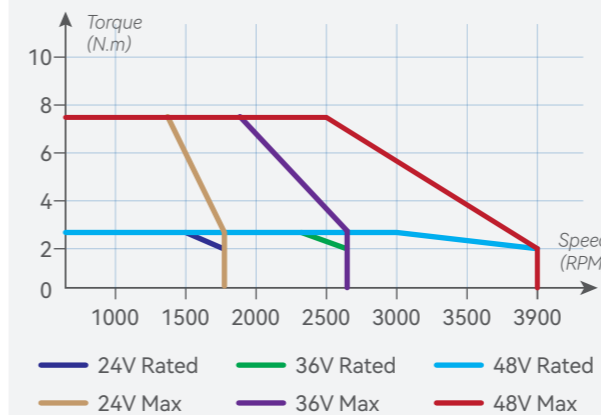
| Motor model (ELVM) | LL |
|--------------------|-------|
| 6020V**EH-***-HD | 101.1 |
| 6020V**FH-***-HD | 71.8 |
| 6040V**EH-***-HD | 118.1 |
| 6040V**FH-***-HD | 88.8 |
| 6060V48EH-***-HD | 138.1 |
| 6060V48FH-***-HD | 108.8 |

80mm Frame size & 750W~1000W

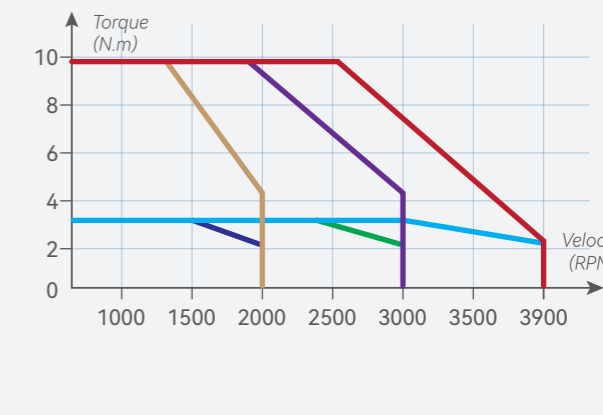
| Type Name | Frame Size (mm) | Brake | Voltage (VDC) | Power (W) | Speed (rpm) | | Torque (Nm) | | Current (Arms) | | Encoder | Inertia (kgm ² *10 ⁻⁴) | Weight (kg) | Motor Length (mm) |
|-------------------|-----------------|-------|---------------|-----------|-------------|------|-------------|-----|------------------------------------|--|---------|---|-------------|-------------------|
| | | | | | Rated | Max | Rated | Max | Rated | Max | | | | |
| 8075V48EH-M17-HD | 80 | √ | 48 | 750 | 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

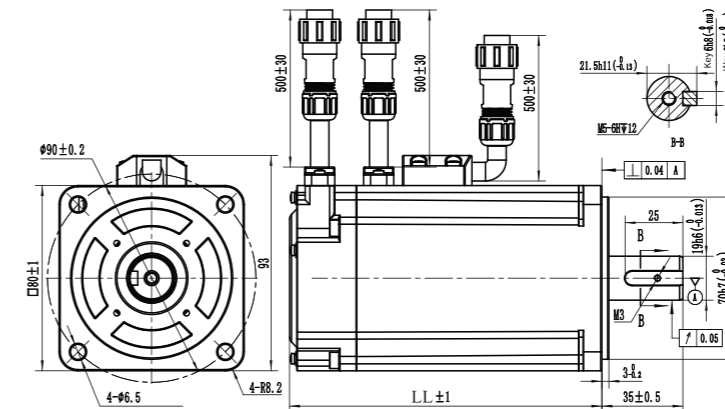
750W Motor (ELVM-8075V48)



1000W Motor (ELVM-80100V48)



Dimensions



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



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

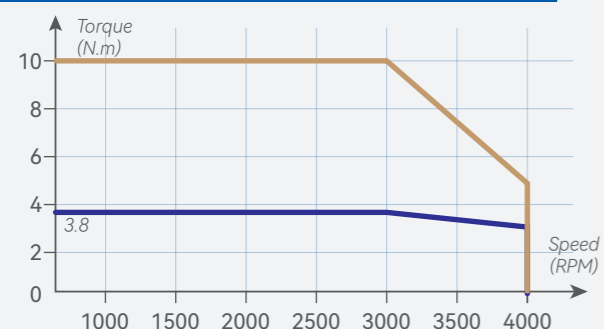
| | | |
|---------------------|-----------------|--|
| Communication cable | CABLE-TX*M*-LD2 | <p>*M*represents the length of the cables. For example, 1M5 = 1.5 meters Available length: 0.3M, 0.5M, 1.0M, 1.5M, 3M, 5M, 7M, 10M</p> |
| Tuning cable | CABLE-PC-1 | |

130mm Frame size & 1200W~2000W

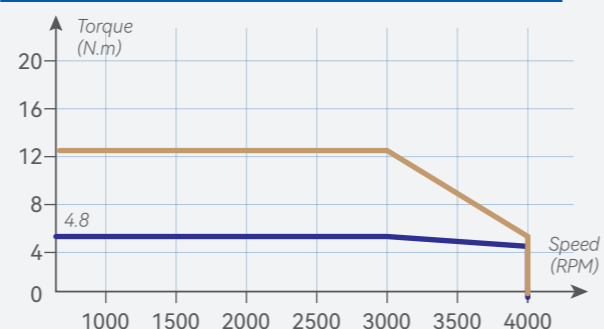
| Type Name | Frame Size (mm) | Brake | Voltage (VDC) | Power (W) | Speed (rpm) | | Torque (Nm) | | Current (Arms) | | Encoder | Inertia (kgm ² *10 ⁻⁴) | Weight (kg) | Motor Length (mm) |
|--------------------|-----------------|-------|---------------|-----------|-------------|------|-------------|-------|----------------|-----|--|---|-------------|-------------------|
| | | | | | 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 | | x | | | | | | | | | | 11.63 | 5.2 | 151 |
| 130150V48EM-M17-HD | | √ | | | | | | | | | | 1500 | 4.8 | 12.5 |
| 130150V48FM-M17-HD | | x | 13.88 | 5.6 | 157 | | | | | | | | | |
| 130200V48EM-M17-HD | | √ | 2000 | 6.4 | 16 | 48.5 | 121.3 | 17.71 | 7.7 | 187 | | | | |
| 130200V48FM-M17-HD | | x | | | | | | 16.04 | 6.4 | 164 | | | | |

Speed-Torque characteristics

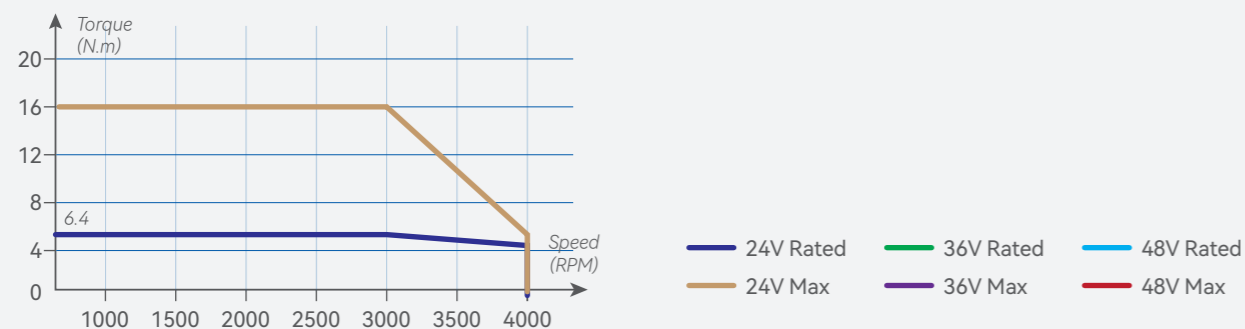
1200W Motor (ELVM-130120V48)



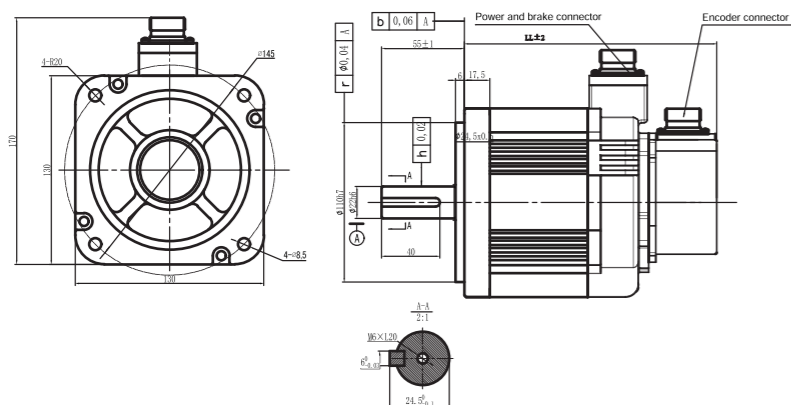
1500W Motor (ELVM-130150V48)



2000W Motor (ELVM-130200V48)



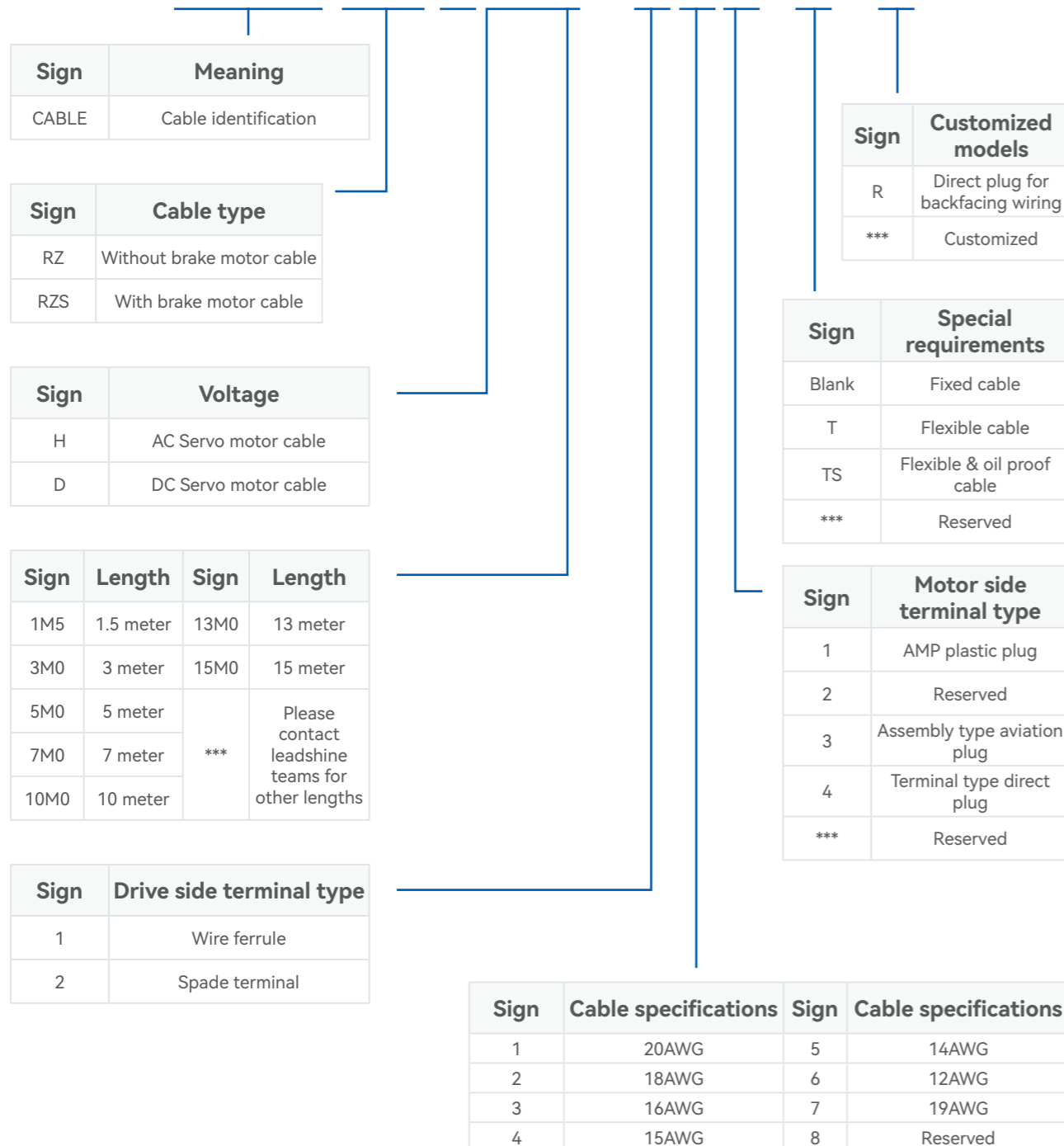
Dimensions



| 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 |

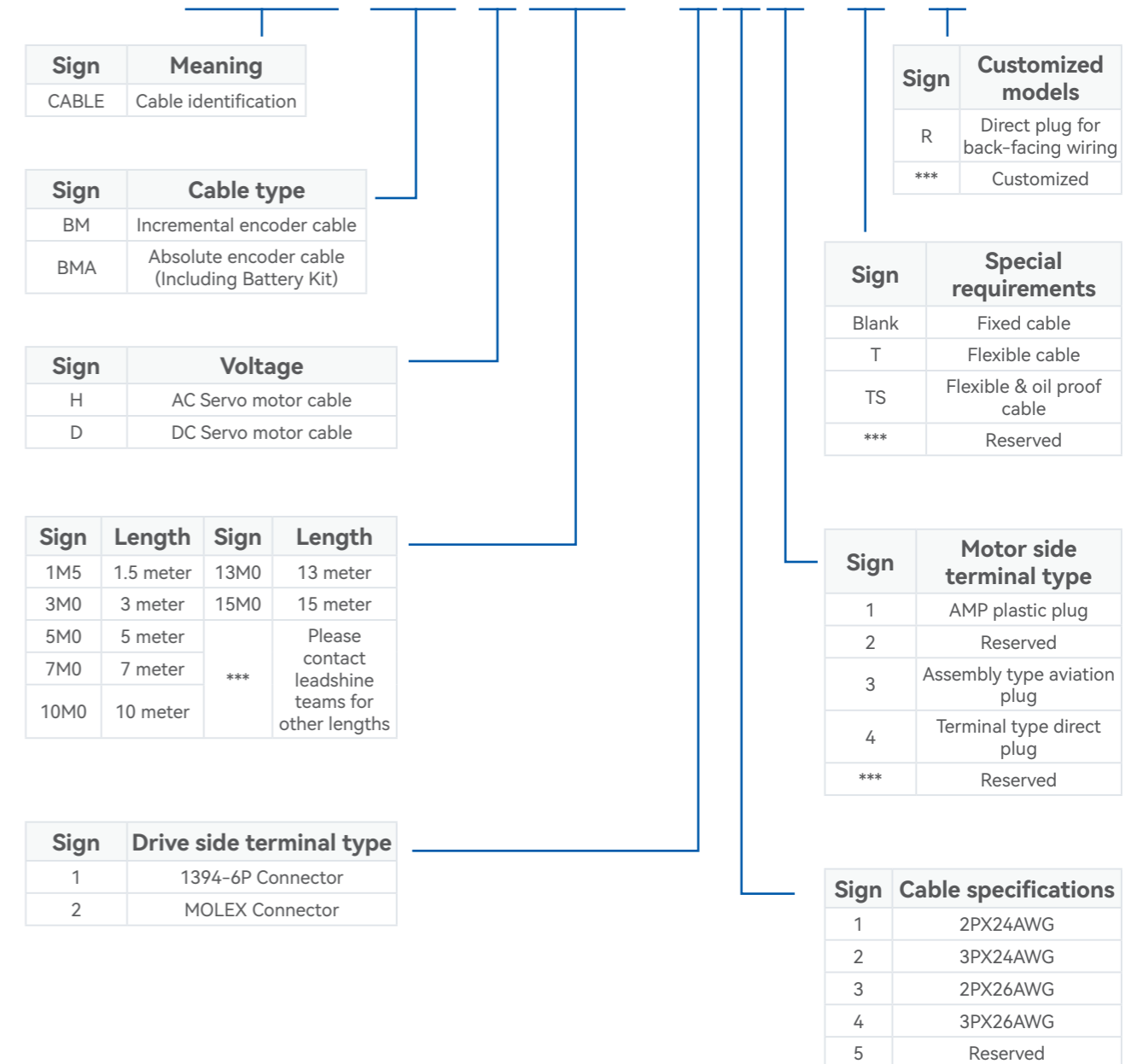
Motor cable model number

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



Encoder cable model number

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



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 | 2X0.3mm ² |
| *** | 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 | 1 Red U 2 Blue V 3 Brown W 4 Yellow Green PE 5* Black 0V 6* White 24V <small>*5&6 terminal for motor with brake</small> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | With brake CABLE-RZSD*M*-123 | A Terminal B 1 PE 1 2 5V 5 3 0V 6 4 SD+ 7 5 SD- 8 6* BAT+ - 7* BAT- - <small>*Terminal 6 & 7 is to be connected to battery kit for absolute encoder</small> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Motor encoder | Incremental CABLE-BMD*M*-213 (17Bit magnetic encoder) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Absolute CABLE-BMAD*M*-223 (17Bit magnetic encoder) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CABLE-LD2-BM*M* (2500 ppr encoder) | 12 11 2 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <tr> <td>PIN-A</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>8</td> <td>9</td> <td>10</td> <td>11</td> <td>12</td> <td>13</td> <td>14</td> <td>15</td> </tr> <tr> <td>PIN-B</td> <td>11</td> <td>9</td> <td>6</td> <td>3</td> <td>2</td> <td>1</td> <td>7</td> <td>8</td> <td>4</td> <td>-</td> <td>12</td> <td>10</td> <td>5</td> <td>-</td> <td>-</td> </tr> <tr> <td>Signal</td> <td>A+</td> <td>B+</td> <td>0V</td> <td>W+</td> <td>U+</td> <td>PE</td> <td>Z+</td> <td>Z-</td> <td>V+</td> <td>V-</td> <td>A-</td> <td>B-</td> <td>+5V</td> <td>W-</td> <td>U-</td> </tr> </table> | 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- | |
| 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 | <table border="1"> <tr><td>1</td><td>Red</td><td>U</td></tr> <tr><td>2</td><td>Blue</td><td>V</td></tr> <tr><td>3</td><td>Brown</td><td>W</td></tr> <tr><td>4</td><td>Yellow Green</td><td>PE</td></tr> </table> | 1 | Red | U | 2 | Blue | V | 3 | Brown | W | 4 | Yellow Green | PE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Red | U | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Blue | V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Brown | W | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Yellow Green | PE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Motor brake | CABLE-SCD*M*-113 | <table border="1"> <tr><td>1</td><td>Red</td><td>24V</td></tr> <tr><td>2</td><td>Black</td><td>0V</td></tr> </table> | 1 | Red | 24V | 2 | Black | 0V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Red | 24V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Black | 0V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Motor encoder | Incremental CABLE-BMD*M*-213 (17Bit magnetic encoder) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Absolute CABLE-BMAD*M*-223 (17Bit magnetic encoder) | <table border="1"> <tr><td>A</td><td>Terminal</td><td>B</td></tr> <tr><td>1</td><td>PE</td><td>1</td></tr> <tr><td>2</td><td>5V</td><td>5</td></tr> <tr><td>3</td><td>0V</td><td>6</td></tr> <tr><td>4</td><td>SD+</td><td>7</td></tr> <tr><td>5</td><td>SD-</td><td>8</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 | 1 | 2 | 5V | 5 | 3 | 0V | 6 | 4 | SD+ | 7 | 5 | SD- | 8 | 6* | BAT+ | - | 7* | BAT- | - | | | | | | | | | | | | | | | | | | | | | | | |
| | A | Terminal | B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | PE | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 5V | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 0V | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | SD+ | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | SD- | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6* | BAT+ | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7* | BAT- | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CABLE-LD2-BM*M* (2500 ppr encoder) | <table border="1"> <tr><td>PIN-A</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td></tr> <tr><td>PIN-B</td><td>11</td><td>9</td><td>6</td><td>3</td><td>2</td><td>1</td><td>7</td><td>8</td><td>4</td><td>-</td><td>12</td><td>10</td><td>5</td><td>-</td><td>-</td></tr> <tr><td>Signal</td><td>A+</td><td>B+</td><td>0V</td><td>W+</td><td>U+</td><td>PE</td><td>Z+</td><td>Z-</td><td>V+</td><td>V-</td><td>A-</td><td>B-</td><td>+5V</td><td>W-</td><td>U-</td></tr> </table> | 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- |
| 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 | <table border="1"> <tr><td>1</td><td>Red</td><td>U</td></tr> <tr><td>2</td><td>Blue</td><td>V</td></tr> <tr><td>3</td><td>Brown</td><td>W</td></tr> <tr><td>4</td><td>Yellow Green</td><td>PE</td></tr> </table> | 1 | Red | U | 2 | Blue | V | 3 | Brown | W | 4 | Yellow Green | PE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Red | U | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Blue | V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Brown | W | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Yellow Green | PE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Motor brake | CABLE-SCD*M*-113 | <table border="1"> <tr><td>1</td><td>Red</td><td>24V</td></tr> <tr><td>2</td><td>Black</td><td>0V</td></tr> </table> | 1 | Red | 24V | 2 | Black | 0V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Red | 24V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Black | 0V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Motor encoder | Incremental CABLE-BMD*M*-213 (17Bit magnetic encoder) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Absolute CABLE-BMAD*M*-223 (17Bit magnetic encoder) | <table border="1"> <tr><td>A</td><td>Terminal</td><td>B</td></tr> <tr><td>1</td><td>PE</td><td>1</td></tr> <tr><td>2</td><td>5V</td><td>5</td></tr> <tr><td>3</td><td>0V</td><td>6</td></tr> <tr><td>4</td><td>SD+</td><td>7</td></tr> <tr><td>5</td><td>SD-</td><td>8</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 | 1 | 2 | 5V | 5 | 3 | 0V | 6 | 4 | SD+ | 7 | 5 | SD- | 8 | 6* | BAT+ | - | 7* | BAT- | - | | | | | | | | | | | | | | | | | | | | | | | |
| | A | Terminal | B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | PE | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 5V | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 0V | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | SD+ | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | SD- | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6* | BAT+ | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7* | BAT- | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CABLE-LD2-BM*M* (2500 ppr encoder) | <table border="1"> <tr><td>PIN-A</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td></tr> <tr><td>PIN-B</td><td>11</td><td>9</td><td>6</td><td>3</td><td>2</td><td>1</td><td>7</td><td>8</td><td>4</td><td>-</td><td>12</td><td>10</td><td>5</td><td>-</td><td>-</td></tr> <tr><td>Signal</td><td>A+</td><td>B+</td><td>0V</td><td>W+</td><td>U+</td><td>PE</td><td>Z+</td><td>Z-</td><td>V+</td><td>V-</td><td>A-</td><td>B-</td><td>+5V</td><td>W-</td><td>U-</td></tr> </table> | 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- |
| 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 | <table border="1"> <tr><td>1</td><td>Red</td><td>U</td></tr> <tr><td>2</td><td>Blue</td><td>V</td></tr> <tr><td>3</td><td>Brown</td><td>W</td></tr> <tr><td>4</td><td>Yellow Green</td><td>PE</td></tr> </table> | 1 | Red | U | 2 | Blue | V | 3 | Brown | W | 4 | Yellow Green | PE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Red | U | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Blue | V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Brown | W | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Yellow Green | PE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Motor brake | CABLE-SCD*M*-113 | <table border="1"> <tr><td>1</td><td>Red</td><td>24V</td></tr> <tr><td>2</td><td>Black</td><td>0V</td></tr> </table> | 1 | Red | 24V | 2 | Black | 0V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Red | 24V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Black | 0V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Motor encoder | Incremental CABLE-BMD*M*-213 (17Bit magnetic encoder) | <table border="1"> <tr><td>A</td><td>Terminal</td><td>B</td></tr> <tr><td>1</td><td>PE</td><td>1</td></tr> <tr><td>2</td><td>5V</td><td>5</td></tr> <tr><td>3</td><td>0V</td><td>6</td></tr> <tr><td>4</td><td>SD+</td><td>7</td></tr> <tr><td>5</td><td>SD-</td><td>8</td></tr> <tr><td>6*</td><td>BAT+</td><td>-</td></tr> <tr><td>7*</td><td>BAT-</td><td>-</td></tr> </table> | A | Terminal | B | 1 | PE | 1 | 2 | 5V | 5 | 3 | 0V | 6 | 4 | SD+ | 7 | 5 | SD- | 8 | 6* | BAT+ | - | 7* | BAT- | - | | | | | | | | | | | | | | | | | | | | | | | |
| | A | Terminal | B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | PE | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 5V | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 0V | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | SD+ | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | SD- | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6* | BAT+ | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7* | BAT- | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Absolute CABLE-BMAD*M*-223 (17Bit magnetic encoder) | <table border="1"> <tr><td>A</td><td>Terminal</td><td>B</td></tr> <tr><td>1</td><td>PE</td><td>1</td></tr> <tr><td>2</td><td>5V</td><td>5</td></tr> <tr><td>3</td><td>0V</td><td>6</td></tr> <tr><td>4</td><td>SD+</td><td>7</td></tr> <tr><td>5</td><td>SD-</td><td>8</td></tr> <tr><td>6*</td><td>BAT+</td><td>-</td></tr> <tr><td>7*</td><td>BAT-</td><td>-</td></tr> </table> <p><small>*Terminal 6 & 7 is to be connected to battery kit for absolute encoder</small></p> | A | Terminal | B | 1 | PE | 1 | 2 | 5V | 5 | 3 | 0V | 6 | 4 | SD+ | 7 | 5 | SD- | 8 | 6* | BAT+ | - | 7* | BAT- | - | | | | | | | | | | | | | | | | | | | | | | | | |
| A | Terminal | B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | PE | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 5V | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 0V | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | SD+ | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | SD- | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6* | BAT+ | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7* | BAT- | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CABLE-LD2-BM*M* (2500 ppr encoder) | <table border="1"> <tr><td>PIN-A</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td></tr> <tr><td>PIN-B</td><td>11</td><td>9</td><td>6</td><td>3</td><td>2</td><td>1</td><td>7</td><td>8</td><td>4</td><td>-</td><td>12</td><td>10</td><td>5</td><td>-</td><td>-</td></tr> <tr><td>Signal</td><td>A+</td><td>B+</td><td>0V</td><td>W+</td><td>U+</td><td>PE</td><td>Z+</td><td>Z-</td><td>V+</td><td>V-</td><td>A-</td><td>B-</td><td>+5V</td><td>W-</td><td>U-</td></tr> </table> | 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- |
| 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 | <table border="1"> <tr><td>1</td><td>Red</td><td>U</td></tr> <tr><td>2</td><td>Blue</td><td>V</td></tr> <tr><td>3</td><td>Brown</td><td>W</td></tr> <tr><td>4</td><td>Yellow Green</td><td>PE</td></tr> </table> | 1 | Red | U | 2 | Blue | V | 3 | Brown | W | 4 | Yellow Green | PE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Red | U | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Blue | V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Brown | W | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Yellow Green | PE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Motor brake | CABLE-SCD*M*-113 | <table border="1"> <tr><td>1</td><td>Red</td><td>24V</td></tr> <tr><td>2</td><td>Black</td><td>0V</td></tr> </table> | 1 | Red | 24V | 2 | Black | 0V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Red | 24V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Black | 0V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Motor encoder | Incremental CABLE-BMD*M*-213 (17Bit magnetic encoder) | <table border="1"> <tr><td>A</td><td>Terminal</td><td>B</td></tr> <tr><td>1</td><td>PE</td><td>1</td></tr> <tr><td>2</td><td>5V</td><td>5</td></tr> <tr><td>3</td><td>0V</td><td>6</td></tr> <tr><td>4</td><td>SD+</td><td>7</td></tr> <tr><td>5</td><td>SD-</td><td>8</td></tr> <tr><td>6*</td><td>BAT+</td><td>-</td></tr> <tr><td>7*</td><td>BAT-</td><td>-</td></tr> </table> | A | Terminal | B | 1 | PE | 1 | 2 | 5V | 5 | 3 | 0V | 6 | 4 | SD+ | 7 | 5 | SD- | 8 | 6* | BAT+ | - | 7* | BAT- | - | | | | | | | | | | | | | | | | | | | | | | | |
| | A | Terminal | B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | PE | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 5V | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 0V | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | SD+ | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | SD- | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6* | BAT+ | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7* | BAT- | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Absolute CABLE-BMAD*M*-223 (17Bit magnetic encoder) | <table border="1"> <tr><td>A</td><td>Terminal</td><td>B</td></tr> <tr><td>1</td><td>PE</td><td>1</td></tr> <tr><td>2</td><td>5V</td><td>5</td></tr> <tr><td>3</td><td>0V</td><td>6</td></tr> <tr><td>4</td><td>SD+</td><td>7</td></tr> <tr><td>5</td><td>SD-</td><td>8</td></tr> <tr><td>6*</td><td>BAT+</td><td>-</td></tr> <tr><td>7*</td><td>BAT-</td><td>-</td></tr> </table> <p><small>*Terminal 6 & 7 is to be connected to battery kit for absolute encoder</small></p> | A | Terminal | B | 1 | PE | 1 | 2 | 5V | 5 | 3 | 0V | 6 | 4 | SD+ | 7 | 5 | SD- | 8 | 6* | BAT+ | - | 7* | BAT- | - | | | | | | | | | | | | | | | | | | | | | | | | |
| A | Terminal | B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | PE | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 5V | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 0V | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | SD+ | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | SD- | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6* | BAT+ | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7* | BAT- | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CABLE-LD2-BM*M* (2500 ppr encoder) | <table border="1"> <tr><td>PIN-A</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td></tr> <tr><td>PIN-B</td><td>11</td><td>9</td><td>6</td><td>3</td><td>2</td><td>1</td><td>7</td><td>8</td><td>4</td><td>-</td><td>12</td><td>10</td><td>5</td><td>-</td><td>-</td></tr> <tr><td>Signal</td><td>A+</td><td>B+</td><td>0V</td><td>W+</td><td>U+</td><td>PE</td><td>Z+</td><td>Z-</td><td>V+</td><td>V-</td><td>A-</td><td>B-</td><td>+5V</td><td>W-</td><td>U-</td></tr> </table> | 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- |
| 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 | <p>CABLE-RZSD*M*-282</p> | <table border="1"> <tr><td>1</td><td>Red</td><td>U</td></tr> <tr><td>2</td><td>Blue</td><td>V</td></tr> <tr><td>3</td><td>Brown</td><td>W</td></tr> <tr><td>4</td><td>Yellow Green</td><td>PE</td></tr> <tr><td>5*</td><td>Black</td><td>0V</td></tr> <tr><td>6*</td><td>White</td><td>24V</td></tr> </table> <p>*5&6 terminal for motor with brake</p> | 1 | Red | U | 2 | Blue | V | 3 | Brown | W | 4 | Yellow Green | PE | 5* | Black | 0V | 6* | White | 24V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 1 | Red | U | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Blue | V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Brown | W | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Yellow Green | PE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5* | Black | 0V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6* | White | 24V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Motor encoder | <p>CABLE-BMD*M*-212 (17Bit magnetic encoder)</p> | <table border="1"> <tr><td>A</td><td>Terminal</td><td>B</td></tr> <tr><td>1</td><td>PE</td><td>1</td></tr> <tr><td>2</td><td>5V</td><td>5</td></tr> <tr><td>3</td><td>0V</td><td>6</td></tr> <tr><td>4</td><td>SD+</td><td>7</td></tr> <tr><td>5</td><td>SD-</td><td>8</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 | 1 | 2 | 5V | 5 | 3 | 0V | 6 | 4 | SD+ | 7 | 5 | SD- | 8 | 6* | BAT+ | - | 7* | BAT- | - | | | | | | | | | | | | | | | | | | | | | | | | |
| | | A | Terminal | B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | PE | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 5V | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 0V | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | SD+ | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | SD- | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6* | BAT+ | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7* | BAT- | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>CABLE-BMAD*M*-222 (17Bit magnetic encoder)</p> | <table border="1"> <tr><td>A</td><td>Terminal</td><td>B</td></tr> <tr><td>1</td><td>PE</td><td>1</td></tr> <tr><td>2</td><td>5V</td><td>5</td></tr> <tr><td>3</td><td>0V</td><td>6</td></tr> <tr><td>4</td><td>SD+</td><td>7</td></tr> <tr><td>5</td><td>SD-</td><td>8</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 | 1 | 2 | 5V | 5 | 3 | 0V | 6 | 4 | SD+ | 7 | 5 | SD- | 8 | 6* | BAT+ | - | 7* | BAT- | - | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | Terminal | B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | PE | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 5V | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 0V | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | SD+ | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | SD- | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6* | BAT+ | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7* | BAT- | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>CABLE-LD2-BM*M* (2500 ppr encoder)</p> | <table border="1"> <tr><td>15</td><td>14</td><td>13</td><td>12</td><td>11</td><td>10</td><td>9</td><td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td></tr> <tr><td>15</td><td>14</td><td>13</td><td>12</td><td>11</td><td>10</td><td>9</td><td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td></tr> </table> | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | | | | | | | | | | | | | | | | | | | |
| 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1"> <tr><td>PIN-A</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td></tr> <tr><td>PIN-B</td><td>11</td><td>9</td><td>6</td><td>3</td><td>2</td><td>1</td><td>7</td><td>8</td><td>4</td><td>-</td><td>12</td><td>10</td><td>5</td><td>-</td><td>-</td></tr> <tr><td>Signal</td><td>A+</td><td>B+</td><td>0V</td><td>W+</td><td>U+</td><td>PE</td><td>Z+</td><td>Z-</td><td>V+</td><td>V-</td><td>A-</td><td>B-</td><td>+5V</td><td>W-</td><td>U-</td></tr> </table> | 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- |
| 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

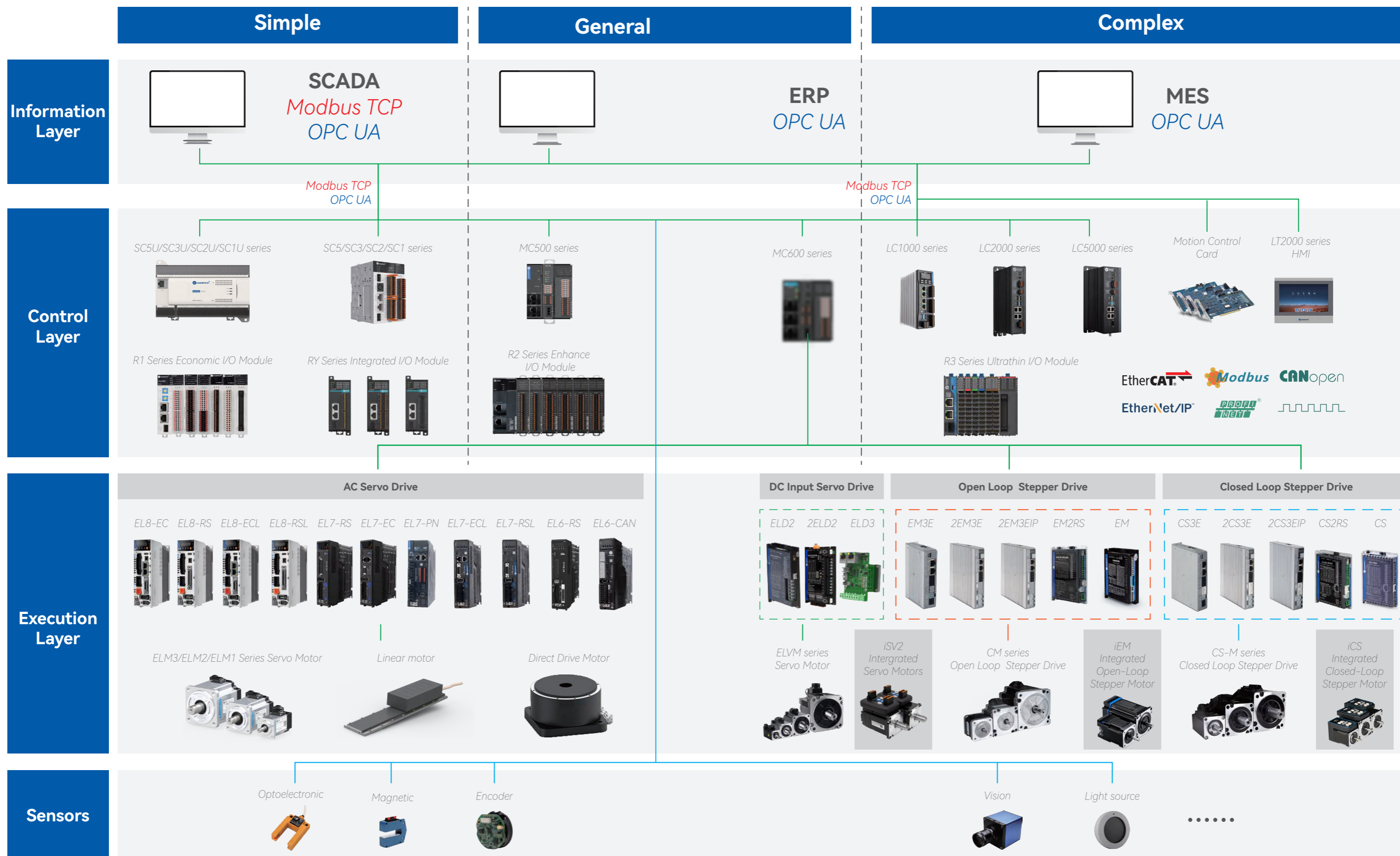
ELVM-M17 Series

| 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-BMAD*M*-223 (Multi-turn) | 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 | ELD2-RS7020B | CABLE-RZD*M*-253 | / | --- | CABLE-SCD*M*-113 |
| 6040V24FH-M17-HD | 2ELD2-CAN7020B | 2ELD2-RS7020B | / | / | / | / |
| 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-BMD*M*-213 (Single-turn) | CABLE-SCD*M*-113 |
| 6060V48FH-M17-HD | | | CABLE-RZD*M*-253 | / | | / |
| 8075V48EH-M17-HD | ELD2-CAN7020B | ELD2-RS7020B | / | / | CABLE-BMD*M*-213 (Single-turn) | CABLE-SCD*M*-113 |
| 8075V48FH-M17-HD | 2ELD2-CAN7020B | 2ELD2-RS7020B | / | / | | / |
| 80100V48EH-M17-HD | ELD2-CAN7030B | ELD2-RS7030B | CABLE-RZD*M*-263 | / | CABLE-BMD*M*-213 (Single-turn) | CABLE-SCD*M*-113 |
| 80100V48FH-M17-HD | 2ELD2-CAN7030B | 2ELD2-RS7030B | / | / | | / |
| 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

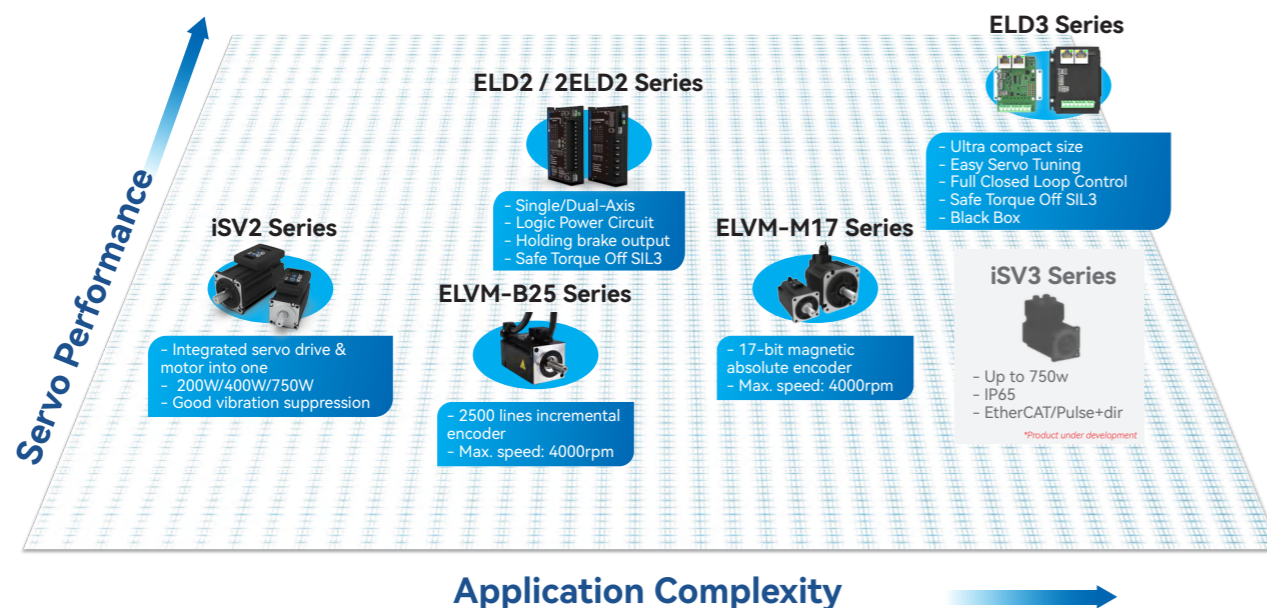
| Type Name ELVM Series | Matched Drive | | Matched Cable | | | |
|-----------------------|----------------|---------------|------------------|--------------------|-------------------------------|------------------|
| | CANopen | RS485 | Motor Cable | Motor +Brake Cable | Encoder Cable | Brake Cable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

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 | | | |
| | 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 | | | | | 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 | *3rd Party Brushless / Brushed Motor |
| | 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) | Input Voltage (VDC) | Flange size (mm) | Current (Arms) | | Torque (Nm) | | Rotational speed (rpm) | | Command Source | | | STO | Digital Inputs | Digital Outputs |
|------------------------|-----------------|-----------|---------------------|------------------|----------------|------|-------------|------|------------------------|------|----------------|--------|-------|-----|----------------|-----------------|
| | | | | | Rated | Peak | Rated | Peak | Rated | Peak | Pulse+Dir | Analog | RS485 | | | |
| iSV2 Integrated Series | iSV2-CAN6020V24 | 200 | 24-60 | 60 | 11 | 34 | 0.64 | 1.92 | 3000 | 4000 | | | | √ | 4 | 2 |
| | iSV2-RS6020V24 | | | | | | | | | | √ | √ | | 4+2 | 2 | |
| | iSV2-CAN6020V48 | | | | | | | √ | | | 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 | | 19 | 57 | 2.4 | 7.2 | | | | | | √ | 4 | 2 | |
| | iSV2-RS8075V48 | | | | | | | √ | | | √ | | 4+2 | 2 | | |
| | iSV2-RS5740V48H | 400 | | 10 | 28 | 1.27 | 3.81 | √ | | | √ | | 4+2 | 2 | | |
| | iSV2-RS8675V48H | 750 | | 19 | 57 | 2.4 | 7.2 | √ | | | √ | | 4+2 | 2 | | |



● Headquarters in Shenzhen



● Shanghai Intelligent Industry Park



● Production base in Shenzhen

- **Founded in 1997**
- **Public Listed Company in China (002979.SZ)**
- **Dedication in Motion Control**
Stepper/Servo systems, Motion Controllers, PLC
Control systems, I/O Modules, Encoders
- **A leading supplier of motion control products and solutions in the world**
- **Customer Oriented, Technology Oriented, Forever Improving, Sharing of Success**

25+ Experience 400+ R&D Engineers 5 Subsidiaries 60+ Countries Clients 10000+ Global Partners 30million+ Installed Axes



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