SSDC Step-Servo System

- Intelligent built-in controller
- Multi-axis field bus control
- Closed loop step system with servo control
- Low vibration, Low noise, Low heat
- Small size, High torque, Long life
- Efficient, Accurate, Fast

MOONS'
moving in better ways

c ℛ US   CE   RoHS Compliant

Multi-Axis Series

Standard Series

mini Series

Step-Servo Motor Series
NEMA 08(20),11(28),17(42),23(57),24(60),34(86)

Industrial Field Bus Control

EtherCAT   EtherNet/IP™   CANopen   Modbus   PROFINET®   Q Programmer

The SSDC series is a high performance, intelligent Step-Servo system with multi-axis field bus control. Enhancing a stepper motor with servo technology has created a product with exceptional features and broad capability. It supports pulse/direction control, analog control and multiple field bus controls such as Modbus, CANopen, SCL/eSCL commands, EtherNet/IP, Profinet and EtherCAT protocol. And the SSDC series also supports the stand alone function(Q programmer) called by field bus control.

## Features

■ Multi-functional Capability

Pulse Control

Muti-Axis Network

Analog Control

Motion Program — Stand Alone Operation
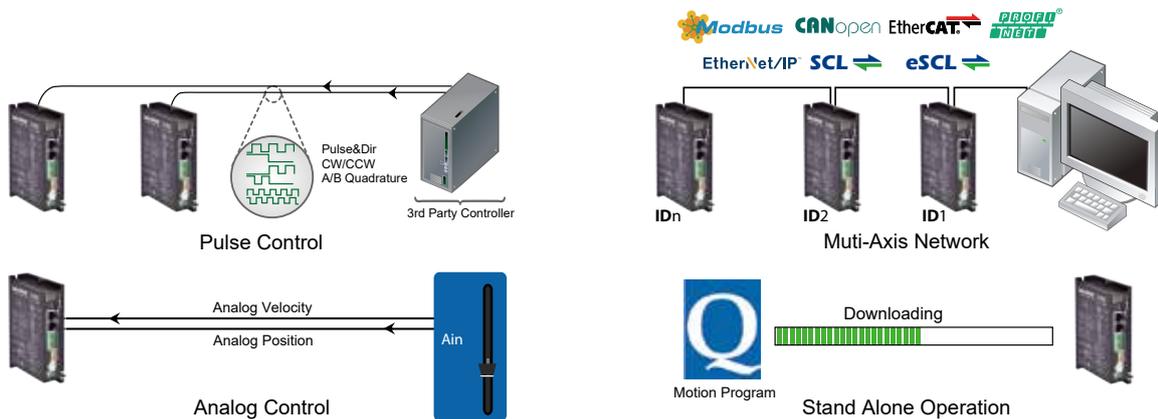
■ Closed-Loop Control

▪ Smart encoder

The step servo motor has a built-in high-resolution intelligent encoder. In addition to providing customers with accurate positioning, the drive can automatically identify the motor model and motor parameters after connecting the smart encoder motor, eliminating the need for motor configuration steps. At the same time, a drive can be compatible with a variety of intelligent encoder motors, and has two resolution encoders 20000 pulses/revolution, 10000 pulses/revolution and 4096 pulses/revolution to choose from, and it can also support multiple closed-loop control modes.

Ordinary encoders only have A/B signals, and the initial alignment of the motor is achieved by energizing the motor windings and locking the shaft. If there is no friction load, the lock shaft alignment is more accurate. However, if there is a friction load (such as the application of a vertical axis), the initial alignment will produce an electrical angle error, which will cause a torque loss. The greater the friction load, the greater the torque loss. When the frictional load is large to a certain degree, it may cause the motor to fail to run or even speed up.

In addition to the A/B signal, the intelligent encoder mounted on the MOONS' step servo motor also has an auxiliary positioning signal. The drive can know the exact position of the motor in real time. Even if there is a friction load, there will be no electrical angle error, and there will be no loss of torque.
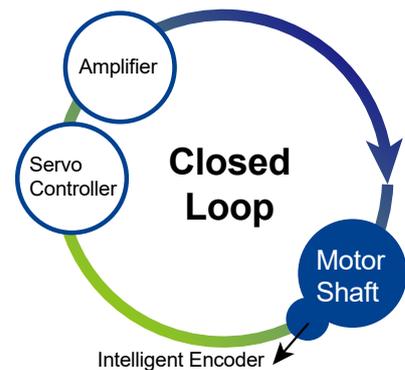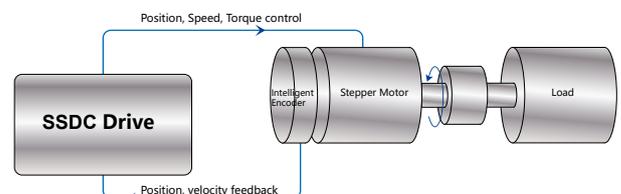

Closed Loop

▪ Closed-loop Step-Servo mode

Position, velocity and current closed loop control.
Precisely position and velocity control can match the harsh applications.
Adjust the current in real time according to the actual load situation.
Highly robust servo control accommodates a wide range of inertial loads and friction load changes.


2

- **Closed-loop Step mode** `NEW`

  Position Closed-loop control. No tuning, no vibration, stall prevention.
  This mode is suitable for some special applications where the vibration is particularly demanding, such as vision systems, nano-technology, semiconductor manufacturing, ink jet printers, and so on.
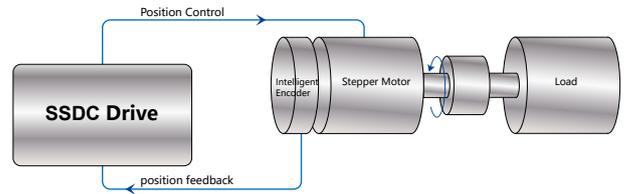
- **Full Closed-loop mode - 2-way feedback** `NEW`

  Support 2-way feedback, one way connect to the motor encoder position feedback, the other way connect to the load side position feedback, to avoid the position error caused by the mechanical error of the transmission mechanism, to achieve more precisely position control.
  Load side feedback support: single-ended or differential incremental encoder, scale.
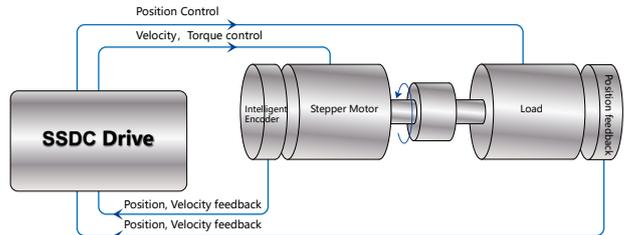
■ Safe & Convenient

- Support communication and motor power cables disconnection protection - **Make equipments safer** `NEW`
- Support on-line configuration by fieldbus - **Make operation more convenient** `NEW`

■ Low Heating/High Efficiency

- The SSDC uses only the current required by the application, generating minimum heat output.
- When the motor is not moving, the current can be nearly zero resulting in extremely low heat output.
- Being able to use almost 100% of the available torque allows for more efficient operation and may allow a smaller motor size.

Stepper Heat Loss 70% Power Output 30% **SSDC** Heat Loss 20% Power Output 80%
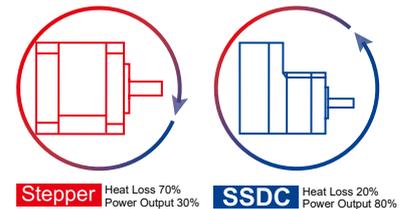
■ Smooth & Accurate

- Space vector current control with a high resolution encoder gives smooth and quiet operation, especially at low speeds - a feature not found with traditional stepper motors.
- High stiffness due to the nature of the stepper motor combined with the highly responsive servo control results in accurate position control both while running and when standing still.

±1 Count Error (20000 counts/rev) SSDC Stepper

■ Fast Response

- When performing fast point-to-point moves, the high torque output and advanced servo control provides a very responsive system far exceeding what can be done with a conventional stepper system.
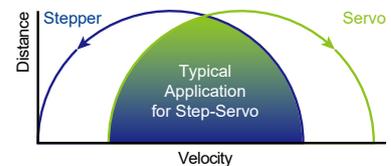
■ High Torque

- Because operates in full servo mode, all the available torque of the motor can be used. The motor can provide as much as 50% more torque in many applications.
- High torque capability often eliminates the need for gear reduction.
- Boost torque capability can provide as much as 50% more torque for short, quick moves.
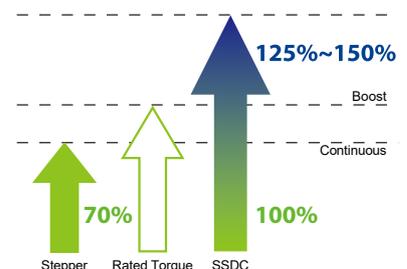
■ Motion Monitoring

- For applications where extreme real-time motion is critical, the *Stepper Suite* provides a simple and practical tool for monitoring actual motion trajectories.
- It can be used to monitor common metrics such as actual velocity and position error to assess the current actual performance of the system.
- An interactive monitoring and tuning interface provides the fastest possible performance output.
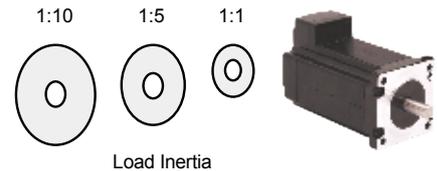
■ Easy Tuning

- Pre-defined tuning parameters quickly allow maximum control performance and stability.
- A selection list provides an easy method to achieve the desired level of control.
- In most cases NO extra manual tuning is required.
- There is no need to do tuning in closed- step mode.

1:10   1:5   1:1

Load Inertia

Software

Stepper Suite

Software Features
- Friendly User Interface
- Easy setup within just three steps
- Drive setup and configuration
- Servo Tuning and Sampling
- Built-in Q programmer
- Motion testing and monitoring
- Write and save SCL command scripts
- Online help integrated
- Support all products in RSM/SSM/TSM/TXM/RS/SS/SSDC Series and STF Stepper Drive

RS485 Bus Utility

Software Features
- Stream SCL commands from the command line
- Simple interface with powerful capability
- Easy setup with RS-485 for 32 axis network motion control
- Monitoring Status of I/O, drive, alarm and the other nine most
- Useful motion parameters
- Write and save SCL command scripts
- Online help integrated
- Supports all RS-485 drives

CANopen Test Tool

Software Features
- Friendly User Interface
- Multiple operation Mode Support
- Multi-Thread, High Performance
- CAN bus monitor and log function
- Kvaser/PEAK adapter support

FREE DOWNLOAD
Our software and user manual can be downloaded from our website:
www.moonsindustries.com

4

■ SSDC-4X-ECX, SSDC-4X-ECX-S EtherCAT Communication type
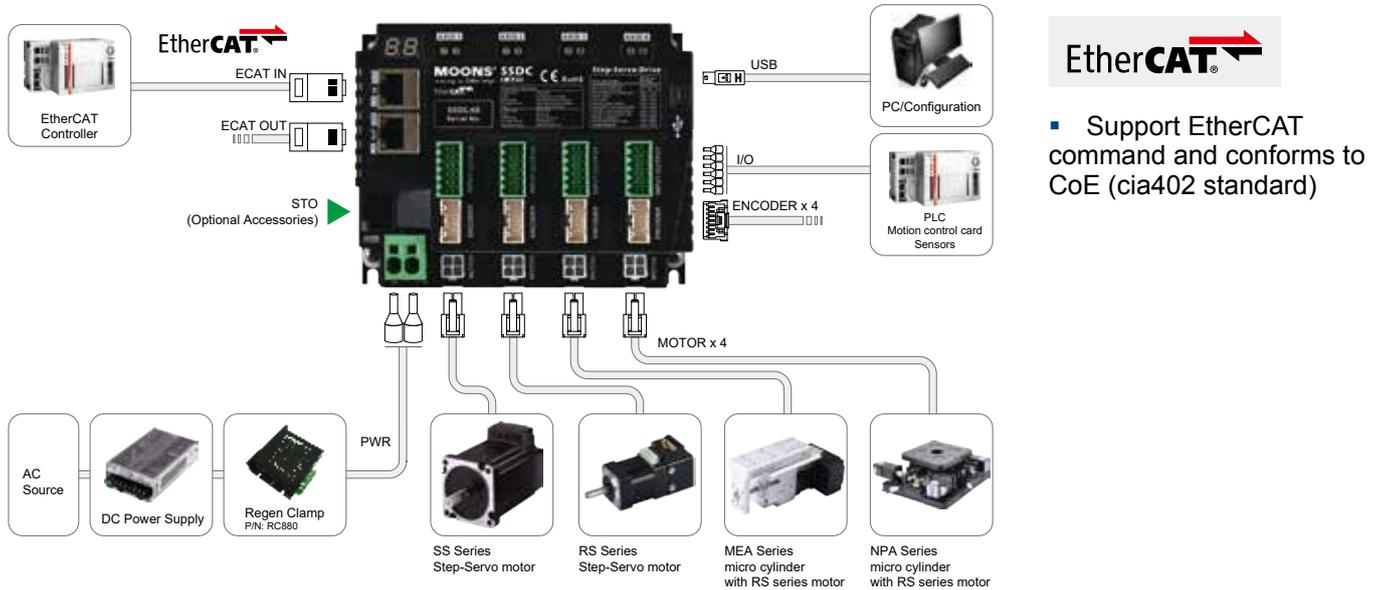
- Support EtherCAT command and conforms to CoE (cia402 standard)

Standard Accessories (Included in the package)

Model	Qty	Catagory	Description
39-01-3048 *	4*1	Housing	Motor connector housing (J2)
39-00-0038 *	4*5	Crimp	Motor connector crimp
501646-1600 *	4*1	Housing	Encoder connector housing (J3)
501648-1000 *	4*16	Crimp	Encoder connector crimp
15EDGKNHB-3.5-12P-14-07A(H)	4	I/O Connector	/
43025-0600	1	STO Connector Housing	Only for sto type drives
43030-0001	8	STO Connector Crimp	Only for sto type drives

Note: The housing and crimps are included in the package box if don't order the extended cables

Optional Accessories*

Model	Qty	Catagory	Description
2136 Series	1	Cable	Extended motor cable(For SSDC drive and AM08RS motor)
2163 Series	1	Cable	Extended encoder cable(For SSDC drive and AM08RS motor)
2027 Series	1	Cable	Extended motor cable(For AM11/17/23/24 motor)
2028 Series	1	Cable	Extended motor cable(For AM34 motor)
2159 Series	1	Cable	Extended encoder cable(For SSDC drive and AM11/17/23/24/34RS motor)
2165 Series	1	Cable	Extended encoder cable(For SSDC drive and AM17/23/24/34SS-N motor)
1602 Series	1	Cable	Brake extension cable (For AM17/23/24/34RS motor)
2012 Series	1	Cable	Network cable
2013 Series	1	Cable	Shielded network cable
RC880	1	Regen Clamp	Regen Clamp

■ SSDC-2XU-ECX, SSDC-2XU-ECX-S EtherCAT Communication type

EtherCAT

- Support EtherCAT command and conforms to CoE (cia402 standard)

Standard Accessories (Included in the package)

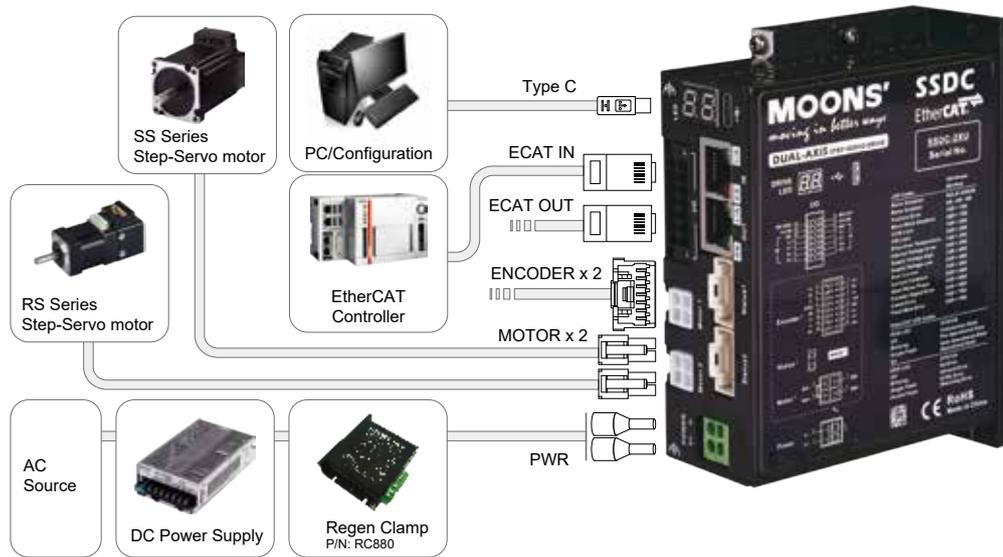| Model	Qty	Catagory	Description
39-01-3048 *	2*1	Housing	Motor connector housing
39-00-0038 *	2*5	Crimp	Motor connector crimp
501646-1600 *	2*1	Housing	Encoder connector housing
501648-1000 *	2*16	Crimp	Encoder connector crimp
15EDGKNH6-3.5-14P-13-00A(H)	1	I/O connector	/
43025-0600	1	STO Connector Housing	Only for sto type drives
43030-0001	8	STO Connector Crimp	Only for sto type drives

Note: The housing and crimps are included in the package box if don't order the extended cables.

Optional Accessories*

Model	Qty	Catagory	Description
2136 Series	1	Cable	Extended motor cable(For SSDC drive and AM08RS motor)
2163 Series	1	Cable	Extended encoder cable(For SSDC drive and AM08RS motor)
2027 Series	1	Cable	Extended motor cable(For AM11/17/23/24 motor)
2028 Series	1	Cable	Extended motor cable(For AM34 motor)
2159 Series	1	Cable	Extended encoder cable(For SSDC drive and AM11/17/23/24/34RS motor)
2165 Series	1	Cable	Extended encoder cable(For SSDC drive and AM17/23/24/34SS-N motor)
1602 Series	1	Cable	Brake extension cable (For AM17/23/24/34RS motor)
2012 Series	1	Cable	Network cable
2013 Series	1	Cable	Shielded network cable
RC880	1	Regen Clamp	Regen Clamp

■ SSDC-4XU-ECX, SSDC-4XU-ECX-S EtherCAT Communication type

- Support EtherCAT command and conforms to CoE (cia402 standard)

Standard Accessories (Included in the package)

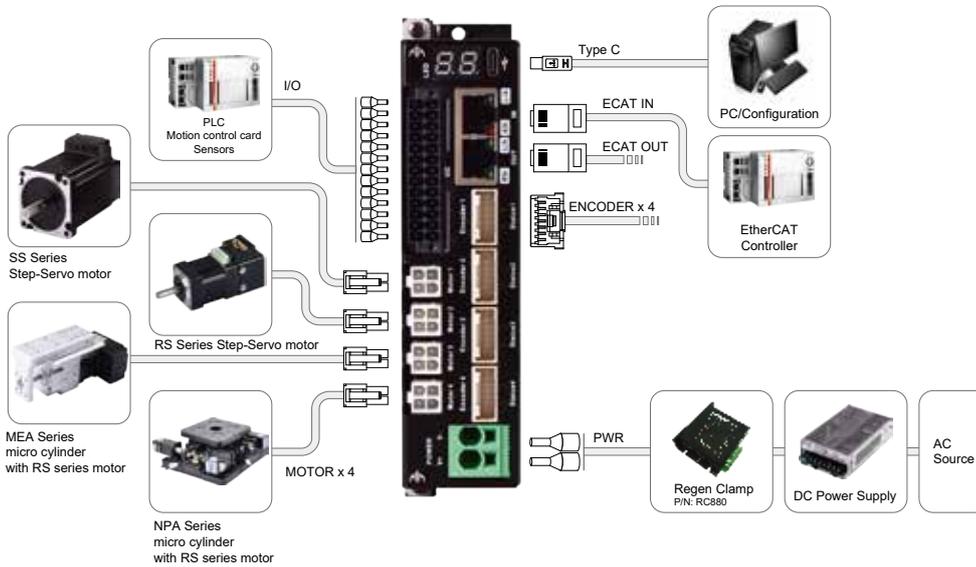| Model	Qty	Catagory	Description
39-01-3048 *	4*1	Housing	Motor connector housing
39-00-0038 *	4*5	Crimp	Motor connector crimp
501646-1600 *	4*1	Housing	Encoder connector housing
501648-1000 *	4*16	Crimp	Encoder connector crimp
15EDGKNHG-3.5-26P-13-00A(H)	1	I/O connector	/
43025-0600	1	STO Connector Housing	Only for sto type drives
43030-0001	8	STO Connector Crimp	Only for sto type drives

Note: The housing and crimps are included in the package box if don't order the extended cables.

Optional Accessories*

Model	Qty	Catagory	Description
2136 Series	1	Cable	Extended motor cable(For SSDC drive and AM08RS motor)
2163 Series	1	Cable	Extended encoder cable(For SSDC drive and AM08RS motor)
2027 Series	1	Cable	Extended motor cable(For AM11/17/23/24 motor)
2028 Series	1	Cable	Extended motor cable(For AM34 motor)
2159 Series	1	Cable	Extended encoder cable(For SSDC drive and AM11/17/23/24/34RS motor)
2165 Series	1	Cable	Extended encoder cable(For SSDC drive and AM17/23/24/34SS-N motor)
1602 Series	1	Cable	Brake extension cable (For AM17/23/24/34RS motor)
2012 Series	1	Cable	Network cable
2013 Series	1	Cable	Shielded network cable
RC880	1	Regen Clamp	Regen Clamp

* Please refer to Page 31 for Optional Accessories

■ SSDC-ECX-H, EtherCAT Communication type

EtherCAT®

- Support EtherCAT command and conforms to CoE (cia402 standard)
- Stand alone (Q programmer)

Standard Accessories (Included in the package)

Model	Qty	Catagory	Description
39-01-3048	1	Housing	Motor connector housing (J2)
39-00-0038	5	Crimp	Motor connector crimp (J2)
501646-1600	1	Housing	Encoder connector housing (J3)
501648-1000	16	Crimp	Encoder connector crimp (J3)

Optional Accessories*

Model	Qty	Catagory	Description
2136 Series	1	Cable	Extended motor cable(For SSDC drive and AM08RS motor)
2163 Series	1	Cable	Extended encoder cable(For SSDC drive and AM08RS motor)
2027 Series	1	Cable	Extended motor cable(For AM11/17/23/24 motor)
2028 Series	1	Cable	Extended motor cable(For AM34SS-N、AM34RS motor)
2159 Series	1	Cable	Extended encoder cable(For SSDC drive and AM11/17/23/24/34RS motor)
2165 Series	1	Cable	Extended encoder cable(For SSDC drive and AM17/23/24/34SS-N motor)
1602 Series	1	Cable	Brake extension cable (For AM17/23/24/34RS motor)
2012 Series	1	Cable	Network cable
2013 Series	1	Cable	Shielded network cable
RC880	1	Regen Clamp	Regen Clamp

* Please refer to Page 31 for Optional Accessories

■ SSDC-ECX-J, EtherCAT Communication type

- Support EtherCAT command and conforms to CoE (cia402 standard)
- Stand alone (Q programmer)
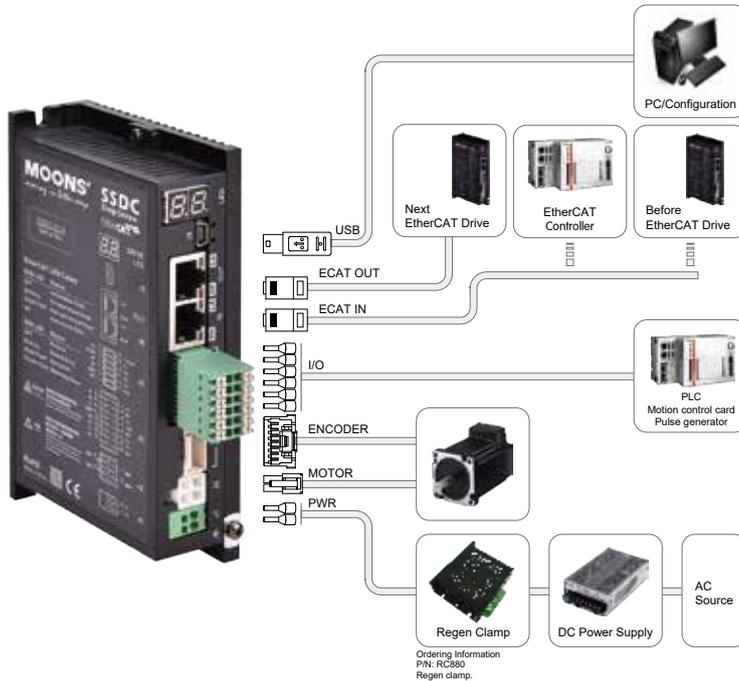
Standard Accessories (Included in the package)

Model	Qty	Catagory	Description
39-01-3048	1	Housing	Motor connector housing (J2)
39-00-0038	5	Crimp	Motor connector crimp (J2)
501646-1600	1	Housing	Encoder connector housing (J3)
501648-1000	16	Crimp	Encoder connector crimp (J3)
15EDGKNHB-3.5-12P-14-07A(H)	1	Housing	I/O connector plug terminal

Optional Accessories*

Model	Qty	Catagory	Description
2136 Series	1	Cable	Extended motor cable(For SSDC drive and AM08RS motor)
2163 Series	1	Cable	Extended encoder cable(For SSDC drive and AM08RS motor)
2027 Series	1	Cable	Extended motor cable(For AM11/17/23/24 motor)
2028 Series	1	Cable	Extended motor cable(For AM34SS-N、AM34RS motor)
2159 Series	1	Cable	Extended encoder cable(For SSDC drive and AM11/17/23/24/34RS motor)
2165 Series	1	Cable	Extended encoder cable(For SSDC drive and AM17/23/24/34SS-N motor)
1602 Series	1	Cable	Brake extension cable (For AM17/23/24/34RS motor)
2012 Series	1	Cable	Network cable
2013 Series	1	Cable	Shielded network cable
RC880	1	Regen Clamp	Regen Clamp

* Please refer to Page 31 for Optional Accessories

■ SSDC-A-H, RS-232 Communication type
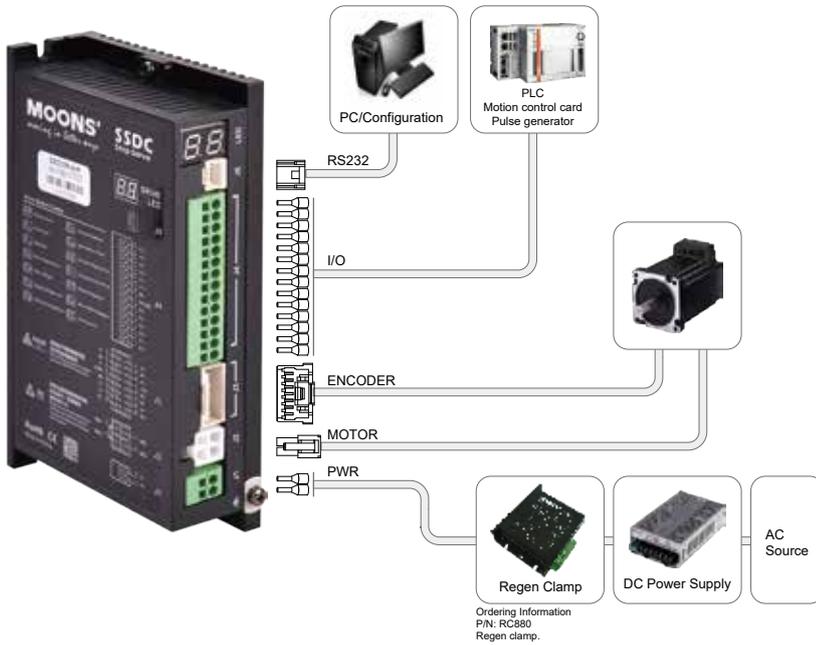
- Modbus/RTU (single axis)
- Support SCL command
- Support pulse & direction, CW/CCW input
- Stand alone (Q programmer)

Standard Accessories (Included in the package)

Model	Qty	Catagory	Description
2101-150	1	Cable	RS-232 configuration cable
39-01-3048	1	Housing	Motor connector housing (J2)
39-00-0038	5	Crimp	Motor connector crimp (J2)
501646-1600	1	Housing	Encoder connector housing (J3)
501648-1000	16	Crimp	Encoder connector crimp (J3)

Optional Accessories*

Model	Qty	Catagory	Description
2136 Series	1	Cable	Extended motor cable(For SSDC drive and AM08RS motor)
2163 Series	1	Cable	Extended encoder cable(For SSDC drive and AM08RS motor)
2027 Series	1	Cable	Extended motor cable(For AM11/17/23/24 motor)
2028 Series	1	Cable	Extended motor cable(For AM34SS-N、AM34RS motor)
2159 Series	1	Cable	Extended encoder cable(For SSDC drive and AM11/17/23/24/34RS motor)
2165 Series	1	Cable	Extended encoder cable(For SSDC drive and AM17/23/24/34SS-N motor)
1602 Series	1	Cable	Brake extension cable (For AM17/23/24/34RS motor)
2012 Series	1	Cable	Network cable
2013 Series	1	Cable	Shielded network cable
RC880	1	Regen Clamp	Regen Clamp

* Please refer to Page 31 for Optional Accessories

■ SSDC-A, RS232 Communication type
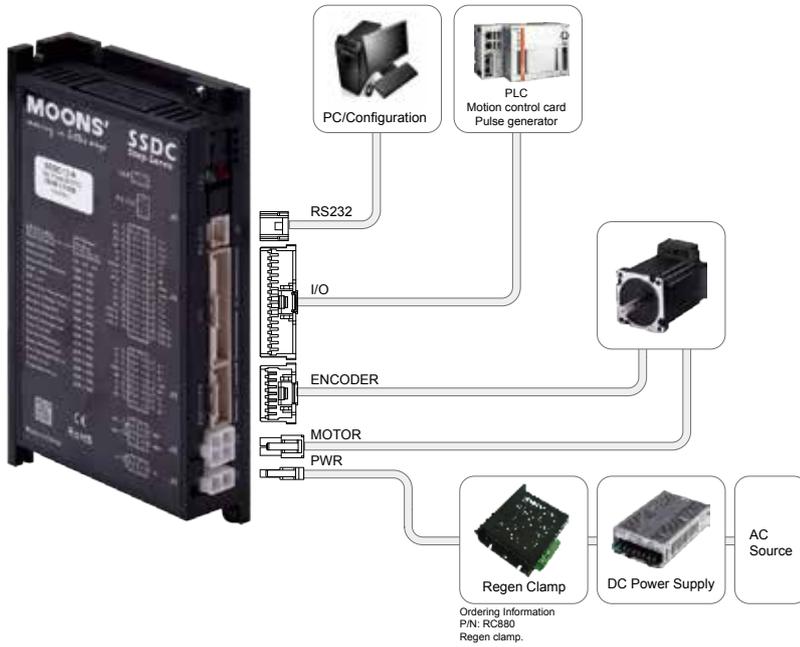
- Support SCL command
- Accepts three types of pulse signal input as Pulse&Direction, CW/CCW and A/B Quadrature
- Stand alone (Q programmer)
- Analog control
- Modbus/RTU (single axis)

Standard Accessories (Included in the package)

Model	Qty	Catagory	Description
1103-200	1	Cable	2m Power supply cable
2101-150	1	Cable	RS-232 configuration cable
39-01-3048	1	Housing	Motor connector housing (J2)
39-00-0038	5	Crimp	Motor connector crimp (J2)
501646-1600	1	Housing	Encoder connector housing (J3)
501646-3200	1	Housing	I/O connector housing (J4)
501648-1000	52	Crimp	Encoder & I/O connector crimp (J2 & J4)

Optional Accessories*

Model	Qty	Catagory	Description
2136 Series	1	Cable	Extended motor cable(For SSDC drive and AM08RS motor)
2163 Series	1	Cable	Extended encoder cable(For SSDC drive and AM08RS motor)
2027 Series	1	Cable	Extended motor cable(For AM11/17/23/24 motor)
2028 Series	1	Cable	Extended motor cable(For AM34SS-N、AM34RS motor)
2159 Series	1	Cable	Extended encoder cable(For SSDC drive and AM11/17/23/24/34RS motor)
2165 Series	1	Cable	Extended encoder cable(For SSDC drive and AM17/23/24/34SS-N motor)
1602 Series	1	Cable	Brake extension cable (For AM17/23/24/34RS motor)
2028 Series	1	Cable	Extended motor cable(For AM34SS-N、AM34RS motor)
1117 Series	1	Cable	Extended I/O cable
RC880	1	Regen Clamp	Regen Clamp
MS-USB-RS232-01	1	Cable	USB-RS232 Converter

* Please refer to Page 31 for Optional Accessories

■ SSDC-R, RS485 Communication type
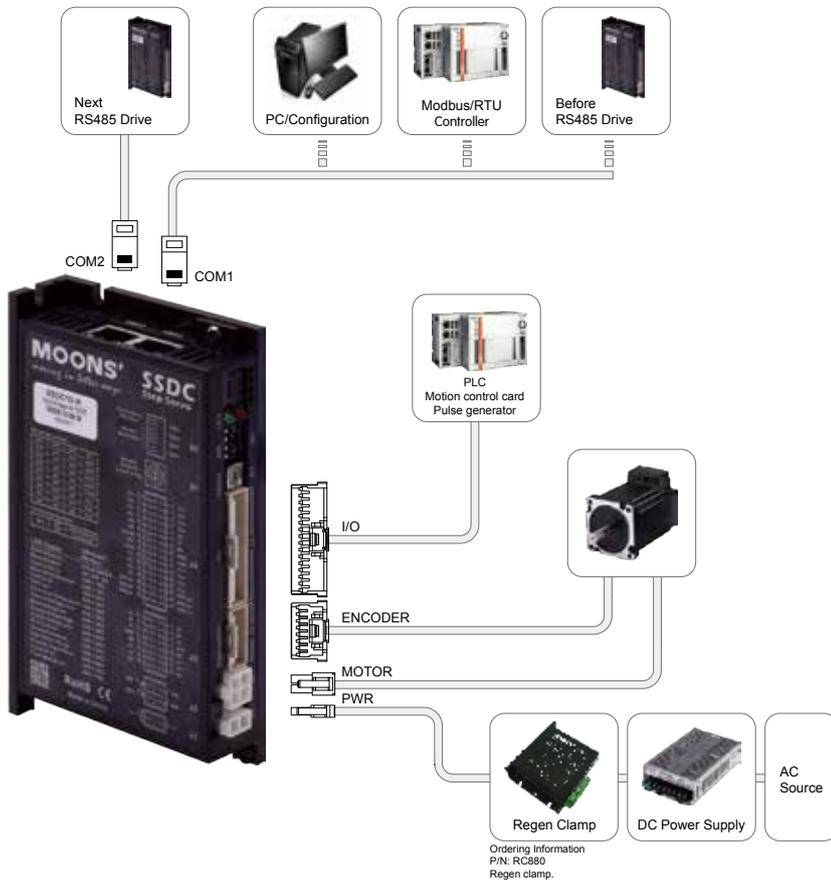
Modbus

- RS-485/422 field bus control
- Modbus/RTU (Multi-axes) network, up to 32 axes per channel
- Accepts three types of pulse signal input as Pulse&Direction, CW/CCW and A/B Quadrature
- Analog control
- Stand alone program (Q programmer)

Standard Accessories (Included in the package)

Model	Qty	Catagory	Description
1103-200	1	Cable	2m Power supply cable
2012-030	1	Cable	0.3m network cable
39-01-3048	1	Housing	Motor connector housing (J2)
39-00-0038	5	Crimp	Motor connector crimp (J2)
501646-1600	1	Housing	Encoder connector housing (J3)
501646-3200	1	Housing	I/O connector housing (J4)
501648-1000	52	Crimp	Encoder & I/O connector crimp (J3 & J4)

Optional Accessories*

Model	Qty	Catagory	Description
2136 Series	1	Cable	Extended motor cable(For SSDC drive and AM08RS motor)
2163 Series	1	Cable	Extended encoder cable(For SSDC drive and AM08RS motor)
2027 Series	1	Cable	Extended motor cable(For AM11/17/23/24 motor)
2028 Series	1	Cable	Extended motor cable(For AM34SS-N、AM34RS motor)
2159 Series	1	Cable	Extended encoder cable(For SSDC drive and AM11/17/23/24/34RS motor)
2165 Series	1	Cable	Extended encoder cable(For SSDC drive and AM17/23/24/34SS-N motor)
1602 Series	1	Cable	Brake extension cable (For AM17/23/24/34RS motor)
1117 Series	1	Cable	Extended I/O cable
2013 Series	1	Cable	Shielded network cable
RC880	1	Regen Clamp	Regen Clamp
MS-USB-RS485-01	1	Cable	USB-RS485 Converter

* Please refer to Page 31 for Optional Accessories

■ SSDC-C, CANopen Communication type
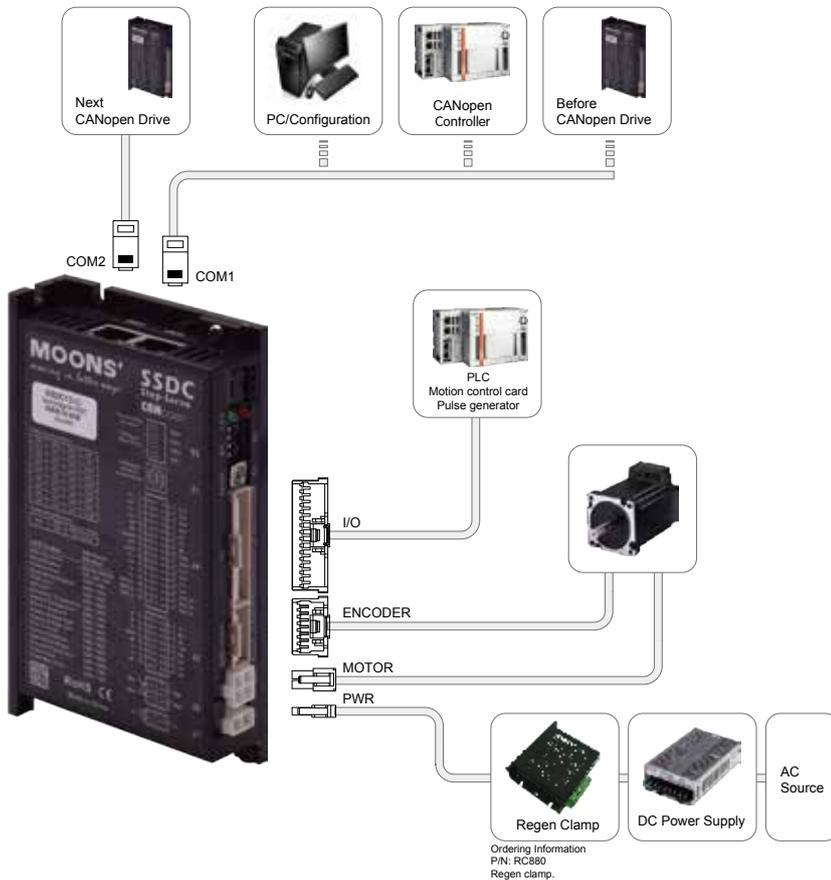
CANopen

- Operates on a CANopen communication network and conforms to CiA301 and CiA402. It supports running stored Q programs via MOONS'-specific CANopen objects.
- Up to 112 axes per channel

Standard Accessories (Included in the package)

Model	Qty	Catagory	Description
1103-200	1	Cable	2m Power supply cable
2012-030	1	Cable	0.3m network cable
39-01-3048	1	Housing	Motor connector housing (J2)
39-00-0038	5	Crimp	Motor connector crimp (J2)
501646-1600	1	Housing	Encoder connector housing (J3)
501646-3200	1	Housing	I/O connector housing (J4)
501648-1000	52	Crimp	Encoder & I/O connector crimp (J3 & J4)

Optional Accessories*

Model	Qty	Catagory	Description
2136 Series	1	Cable	Extended motor cable(For SSDC drive and AM08RS motor)
2163 Series	1	Cable	Extended encoder cable(For SSDC drive and AM08RS motor)
2027 Series	1	Cable	Extended motor cable(For AM11/17/23/24 motor)
2028 Series	1	Cable	Extended motor cable(For AM34SS-N、AM34RS motor)
2159 Series	1	Cable	Extended encoder cable(For SSDC drive and AM11/17/23/24/34RS motor)
2165 Series	1	Cable	Extended encoder cable(For SSDC drive and AM17/23/24/34SS-N motor)
1602 Series	1	Cable	Brake extension cable (For AM17/23/24/34RS motor)
1117 Series	1	Cable	Extended I/O cable
2013 Series	1	Cable	Shielded network cable
RC880	1	Regen Clamp	Regen Clamp
MS-USB-RS232-01	1	Cable	USB-RS232 Converter

* Please refer to Page 31 for Optional Accessories

■ SSDC-D/IP/PN

EtherNet/IP™

PROFINET®

- Ethernet field bus control
- Pulse control
- Analog control
- eSCL, Modbus/TCP protocol
- Stand alone (Q programmer)

Standard Accessories (Included in the package)

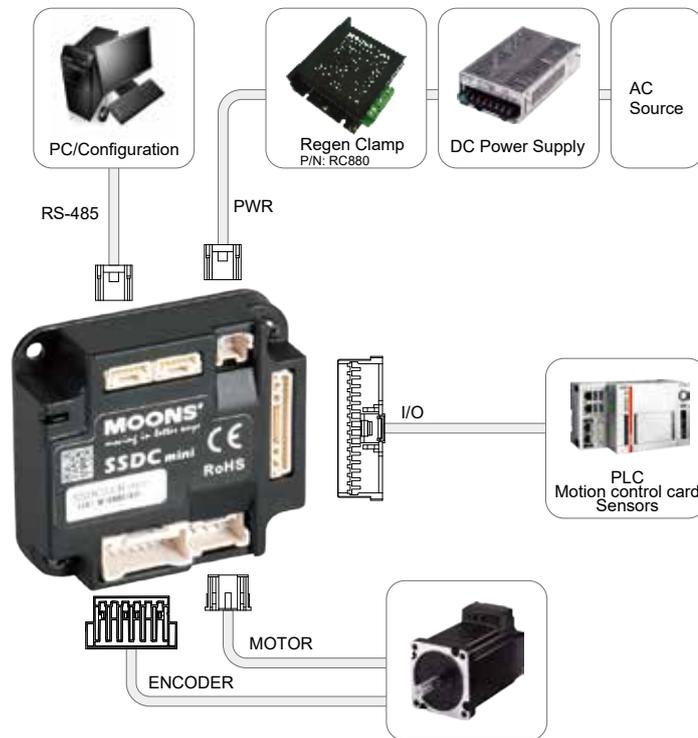| Model	Qty	Catagory	Description
1103-200	1	Cable	2m Power supply cable
2012-030	1	Cable	0.3m network cable
39-01-3048	1	Housing	Motor connector housing (J2)
39-00-0038	5	Crimp	Motor connector crimp (J2)
501646-1600	1	Housing	Encoder connector housing (J3)
501646-3200	1	Housing	I/O connector housing (J4)
501648-1000	52	Crimp	Encoder & I/O connector crimp (J3 & J4)

Optional Accessories*

Model	Qty	Catagory	Description
2136 Series	1	Cable	Extended motor cable(For SSDC drive and AM08RS motor)
2163 Series	1	Cable	Extended encoder cable(For SSDC drive and AM08RS motor)
2027 Series	1	Cable	Extended motor cable(For AM11/17/23/24 motor)
2028 Series	1	Cable	Extended motor cable(For AM34SS-N、AM34RS motor)
2159 Series	1	Cable	Extended encoder cable(For SSDC drive and AM11/17/23/24/34RS motor)
2165 Series	1	Cable	Extended encoder cable(For SSDC drive and AM17/23/24/34SS-N motor)
1602 Series	1	Cable	Brake extension cable (For AM17/23/24/34RS motor)
1117 Series	1	Cable	Extended I/O cable
2013 Series	1	Cable	Shielded network cable
RC880	1	Regen Clamp	Regen Clamp
MS-USB-RS485-01	1	Cable	USB-RS485 Converter

* Please refer to Page 31 for Optional Accessories

■ SSDC03-R-mini, RS-485 Communication type

- RS-485/422 field bus control
- Modbus/RTU (Multi-axes) network, up to 32 axes per channel
- Stand alone program (Q programmer)

Standard Accessories (Included in the package)

Model	Qty	Catagory	Description
1148-0100	1	Cable	1m Power supply cable
1147-0100	1	Cable	1m I/O Cable
2144-0100	1	Cable	RS-422 configuration cable
SXA-001T-P0.6	5	Crimp	Motor connector crimp
XAP-04V-1	1	Housing	Motor connector housing
501648-1000	20	Crimp	Encoder connector crimp
501646-1600	1	Housing	Encoder connector housing

Optional Accessories*

Model	Qty	Catagory	Description
1602 Series	1	Cable	Brake extension cable (For AM17/23/24/34RS motor)
1148 Series	1	Cable	Extended power cable
1147 Series	1	Cable	Extended I/O cable
2141 Series	1	Cable	Extended motor cable(For SSDC drive and AM08RS motor)
2143 Series	1	Cable	Extended motor cable(For SSDC drive and AM11/17RS/SS motor)
2144 Series	1	Cable	Extended communication cable
2159 Series	1	Cable	Extended encoder cable(For SSDC drive and AM11/17/23/24/34RS motor)
2163 Series	1	Cable	Extended encoder cable(For SSDC drive and AM08RS motor)
2165 Series	1	Cable	Extended encoder cable(For SSDC drive and AM17/23/24/34SS-N motor)

* Please refer to Page 31 for Optional Accessories

■ SSDC06-ECX-mini, EtherCAT Communication type
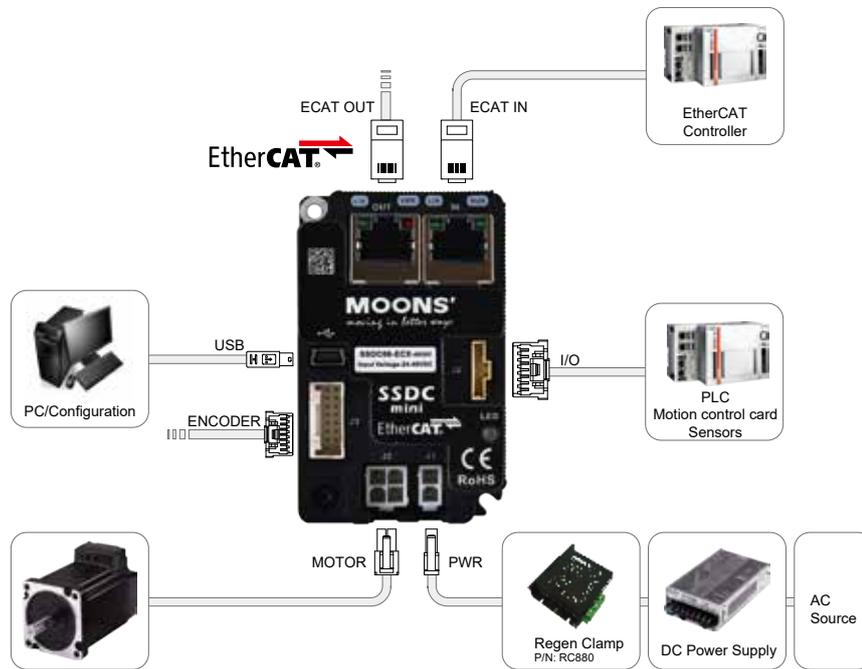
- Support EtherCAT command and conforms to CoE (cia402 standard)

Standard Accessories (Included in the package)

Model	Qty	Catagory	Description
1103-200	1	Cable	2m Power supply cable
1143-0030	1	Cable	0.3m I/O Cable
2012-030	1	Cable	0.3m Network cable
501646-1600	1	Housing	Encoder connector housing(J3)
501648-1000	16	Crimp	Encoder connector crimp

Optional Accessories*

Model	Qty	Catagory	Description
2136 Series	1	Cable	Extended motor cable(For SSDC drive and AM08RS motor)
2163 Series	1	Cable	Extended encoder cable(For SSDC drive and AM08RS motor)
2027 Series	1	Cable	Extended motor cable(For AM17/23/24SS-N、AM17/23/24RS motor)
2028 Series	1	Cable	Extended motor cable(For AM34SS-N、AM34RS motor)
2159 Series	1	Cable	Extended encoder cable(For SSDC drive and AM17/23/24/34RS motor)
2165 Series	1	Cable	Extended encoder cable(For SSDC drive and AM17/23/24/34SS-N motor)
1602 Series	1	Cable	Brake extension cable (For AM17/23/24/34RS motor)
1117 Series	1	Cable	Extended I/O cable
2013 Series	1	Cable	Shielded network cable
RC880	1	Regen Clamp	Regen Clamp
2019-150	1	Cable	USB configuration cable (Connection with PC for configuration)

■ Drive Numbering System

☐ Standard Series

SSDC 03 - ECX - H - FC

- **SSDC Series**

- **Output Current**
  03 = 3A
  06 = 6A
  10 = 10A

- **Control Option**
  A = RS-232
  R = RS-485
  C = CANopen
  D = Ethernet
  IP = EtherNet/IP
  PN = PROFINE
  ECX = EtherCAT

- **Special Models**
  Blank = Terminal block
  H = Push-in I/O connector[1]
  J = Push-in I/O connector[2]
  mini = Mini size[3]

- **Version Models**
  Blank = Standard type
  UL = UL Certification type

☐ Multi-Axis Series

SSDC 06 - 4X - ECX - S - FC

- **SSDC Series**

- **Output Current**
  06 = 6A
  10 = 10A

- **Type**
  4X = Horizontal 4 Axes in 1
  2XU = Vertical 2 Axes in 1
  4XU = Vertical 4 Axes in 1

- **Control Option**
  ECX = EtherCAT

- **Special Models**
  Blank = Without STO
  S = With STO

- **Version Models**
  Blank = Standard type
  UL = UL Certification type

■ Motor Numbering System

☐ RS Series Step-Servo Motor

AM 17 RS 3 D G A - F

- **Frame Size**
  08,11,17,23,24,34

- **RS Series**

- **Motor Size**
  1 = 1Stack
  2 = 2Stack
  3 = 3Stack
  4 = 4Stack
  5 = 5Stack

- **D = DC Input**

- **Encoder**
  G = 5000-Line
  C = 2500-Line
  M = 1024-Line

- **Mechanical Option**
  A=Output shaft size
  08：Ø4
  11：Ø5
  17：Ø6
  23：Ø8
  24：Ø10
  34：Ø14
  B=Output shaft size
  17：Ø5
  23：Ø6.35
  24：Ø8

- **Version Models**
  Blank = Standard type
  F = UL Certification type
  BR01 = Brake type

☐ SS Series Step-Servo Motor

AM 17 SS 3 D G A - F

- **Frame Size**
  17,23,24,34

- **SS Series**

- **Motor Size**
  1 = 1Stack
  2 = 2Stack
  3 = 3Stack
  4 = 4Stack
  5 = 5Stack

- **D = DC Input**

- **Encoder**
  G = 5000-Line

- **Mechanical Option**
  A=Output shaft size
  08：Ø4
  11：Ø5
  17：Ø6
  23：Ø8
  24：Ø10
  34：Ø14
  B=Output shaft size
  17：Ø5
  23：Ø6.35
  24：Ø8

- **Version Models**
  N = Standard type
  F = UL Certification type
  BR01 = Brake type

Ordering Information

■ Step-Servo Driver

Model	Current	Voltage	Pulse	Analog	Modbus/RTU	CANopen	Modbus/TCP	EtherNet/IP	EtherCAT	Profinet	Q Program
★ SSDC06-4X-ECX	0.1-6.0A※	24-60VDC							√		
★ SSDC10-4X-ECX	0.1-10.0A※	24-60VDC							√		
★ SSDC06-4X-ECX-S *	0.1-6.0A※	24-60VDC							√		
★ SSDC10-4X-ECX-S *	0.1-10.0A※	24-60VDC							√		
★ SSDC06-2XU-ECX	0.1-6.0A※	24-60VDC							√		
★ SSDC10-2XU-ECX	0.1-10.0A※	24-60VDC							√		
★ SSDC06-2XU-ECX-S *	0.1-6.0A※	24-60VDC							√		
★ SSDC10-2XU-ECX-S *	0.1-10.0A※	24-60VDC							√		
★ SSDC06-4XU-ECX	0.1-6.0A※	24-60VDC							√		
★ SSDC10-4XU-ECX	0.1-10.0A※	24-60VDC							√		
★ SSDC06-4XU-ECX-S *	0.1-6.0A※	24-60VDC							√		
★ SSDC10-4XU-ECX-S *	0.1-10.0A※	24-60VDC							√		
★ SSDC06-ECX-H	0.1-6.0A	24-60VDC							√		√
★ SSDC10-ECX-H	0.1-10.0A	24-60VDC							√		√
★ SSDC06-ECX-J	0.1-6.0A	24-60VDC		√					√		√
★ SSDC10-ECX-J	0.1-10.0A	24-60VDC		√					√		√
★ SSDC06-A-H	0.1-6.0A	24-60VDC	√		√						√
★ SSDC10-A-H	0.1-10.0A	24-60VDC	√		√						√
★ SSDC06-PN-01	0.1-6.0A	24-60VDC		√						√	√
★ SSDC10-PN-01	0.1-10.0A	24-60VDC		√						√	√
SSDC03-R-mini	0.1-3.0A	12-48VDC			√						√
SSDC06-ECX-mini	0.1-6.0A	24-48VDC							√		√
★ SSDC03-A	0.1-3.0A	12-48VDC	√	√							√
★ SSDC06-A	0.1-6.0A	24-60VDC	√	√							√
★ SSDC10-A	0.1-10.0A	24-60VDC	√	√							√
★ SSDC03-R	0.1-3.0A	12-48VDC	√	√	√						√
★ SSDC06-R	0.1-6.0A	24-60VDC	√	√	√						√
★ SSDC10-R	0.1-10.0A	24-60VDC	√	√	√						√
★ SSDC03-C	0.1-3.0A	12-48VDC				√					√
★ SSDC06-C	0.1-6.0A	24-60VDC				√					√
★ SSDC10-C	0.1-10.0A	24-60VDC				√					√
★ SSDC03-D	0.1-3.0A	12-48VDC	√	√			√				√
★ SSDC06-D	0.1-6.0A	24-60VDC	√	√			√				√
★ SSDC10-D	0.1-10.0A	24-60VDC	√	√			√				√
★ SSDC03-IP	0.1-3.0A	12-48VDC	√	√			√	√			√
★ SSDC06-IP	0.1-6.0A	24-60VDC	√	√			√	√			√
★ SSDC10-IP	0.1-10.0A	24-60VDC	√	√			√	√			√

※：SSDC06-2X continuous 2*6A, boost 2*7.5A(1.5s)；SSDC10-2X continuous 2*10A, boost 2*15A(1.5s).
　　SSDC06-4X continuous 4*6A, boost 4*7.5A(1.5s)；SSDC10-4X continuous 4*10A, boost 4*15A(1.5s).

*：STO Type
★：UL certified models are detailed in the appendix.

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■ Step-Servo Motor

□ RS series 2500 line encoder stepper servo motor
○ Standard type

Model	Drive P/N	Frame Size	Encoder Resolution
		mm	counts/rev
AM11RS1DCA	SSDC03 or SSDC06	28	10000
AM11RS3DCA			
AM11RS4DCA			
AM17RS1DCA	SSDC03 or SSDC06	42	
AM17RS1DCB			
AM17RS2DCA			
AM17RS2DCB			
AM17RS3DCA			
AM17RS3DCB			
AM17RS4DCA			
AM17RS4DCB			
AM23RS2DCA	SSDC06 or SSDC10	56	
AM23RS2DCB			
AM23RS3DCA			
AM23RS3DCB			
AM23RS4DCA			
AM24RS3DCA		60	
AM24RS3DCB			
AM34RS1DCA	SSDC10	80	
AM34RS3DCA			
AM34RS5DCA			

□ RS series 5000 line encoder stepper servo motor
○ Standard type

Model	Drive P/N	Frame Size	Encoder Resolution
		mm	counts/rev
★ AM17SS1DGA-N	SSDC03 or SSDC06	42	20000
★ AM17SS1DGB-N			
★ AM17SS2DGA-N			
★ AM17SS2DGB-N			
★ AM17SS3DGA-N			
★ AM17SS3DGB-N			
★ AM17SS4DGA-N			
★ AM17SS4DGB-N			
★ AM23SS2DGA-N	SSDC06 or SSDC10	56	
★ AM23SS2DGB-N			
★ AM23SS3DGA-N			
★ AM23SS3DGB-N			
★ AM23SS4DGA-N			
★ AM24SS3DGA-N		60	
★ AM24SS3DGB-N			
AM34SS1DGA-N	SSDC10	86	
AM34SS3DGA-N			
AM34SS5DGA-N			

□ Standard type with brake

Model	Drive P/N	Frame Size	Encoder Resolution
		mm	counts/rev
AM17RS1DCA-BR01	SSDC03 or SSDC06	42	10000
AM17RS1DCB-BR01			
AM17RS2DCA-BR01			
AM17RS2DCB-BR01			
AM17RS3DCA-BR01			
AM17RS3DCB-BR01			
AM17RS4DCA-BR01			
AM17RS4DCB-BR01			
AM23RS2DCA-BR01	SSDC06 or SSDC10	56	
AM23RS2DCB-BR01			
AM23RS3DCA-BR01			
AM23RS3DCB-BR01			
AM23RS4DCA-BR01			
AM24RS3DCA-BR01		60	
AM24RS3DCB-BR01			
AM34RS1DCA-BR01	SSDC10	80	
AM34RS3DCA -BR01			
AM34RS5DCA-BR01			

□ RS series 1024 line encoder stepper servo motor
○ Standard type

Model	Drive P/N	Frame Size	Encoder Resolution
		mm	counts/rev
AM08RS1DMA	SSDC03 or SSDC06	20	4096
AM08RS2DMA			
AM08RS3DMA			
★ AM17RS1DMA		42	
★ AM17RS1DMB			
★ AM17RS2DMA			
★ AM17RS2DMB			
★ AM17RS3DMA			
★ AM17RS3DMB			
★ AM17RS4DMA			
★ AM17RS4DMB			
★ AM23RS2DMA	SSDC06 or SSDC10	60	
★ AM23RS2DMB			
★ AM23RS3DMA			
★ AM23RS3DMB			
★ AM23RS4DMA			
★ AM24RS3DMA			
★ AM24RS3DMB			
★ AM34RS1DMA	SSDC10	80	
★ AM34RS3DMA			
★ AM34RS5DMA			

★ : Provide a motor with the same specifications as the UL-certified version.
For the specific model, please refer to the appendix table.

Driver Specifications

■ Specifications

Driver	SSDC03	SSDC06	SSDC10
Input Voltage	12-48VDC	24-60VDC	
Output Current	continuous 3A, boost 4A(1.5s)	continuous 6A, boost 7.5A(1.5s)	continuous 10A, boost 15A(1.5s)
Protection	Over-voltage, under-voltage, over-temp, motor/winding shorts (phase-to-phase, phase-to-ground)		
Speed Range	Up to 3000rpm		
Filters	Digital input noise filter, Analog input noise filter, Smoothing filter, PID filter, Notch filter		
Non-Volatile Storage	Configurations are saved in FLASH memory on-board the DSP		
Ambient Temperature	0 to 40° C (32 to 104° F) when mounted to a suitable heatsink		
Ambient Humidity	90% Max., non-condensing		
Mass	0.25kg		
Encoder Resolution	20000 counts/rev(for AM17/23/24/34SS-N motors)		
	20000 counts/rev(for AM17/23/24/34RS motors)		
	4096 counts/rev(for AM08/11/17/23/24/34RS motors)		
	10000 counts/rev(for AM17/23/24/34RS motors)		

■ Technical specifications

□ EtherCAT communication type

Type	EtherCAT								
Driver	SSDC**-4X-ECX	SSDC**-4X-ECX-S	SSDC**-2XU-ECX	SSDC**-2XU-ECX-S	SSDC**-4XU-ECX	SSDC**-4XU-ECX-S	SSDC**-ECX-H	SSDC**-ECX-J	SSDC**-ECX-mini
Digital Inputs	5DI*4	5DI*4	3DI*2	3DI*2	3DI*4	3DI*4	3DI	5DI	5DI
Digital Outputs	3DO*4	3DO*4	2DO*2	2DO*2	2DO*4	2DO*4	1DO	2DO	2DO
STO	/	√	/	√	/	√	/		/
Analog Inputs	/						/	1 analog inputs	/
Encoder Outputs	/								
+5V Output	/						/	5VDC 100mA	/
Bus Control	EtherCAT								
Counts/IO	/								
PLC (Q programmer)	/							√	√

□ Modbus、CANopen、Ethernet communication type

Driver	RS232		RS485		CANopen	Ethernet		
Driver	SSDC**-A	SSDC**-A-H	SSDC**-R-mini	SSDC**-R	SSDC**-C	SSDC**-D	SSDC**-PN	SSDC**-IP
Digital Inputs	8DI	4DI	2DI	8DI	8DI	8DI		
Digital Outputs	4DO	3DO	1DO	4DO	4DO	4DO		
Analog Inputs	2 analog inputs	/	/	2 analog inputs	2 analog inputs	2 analog inputs		
Encoder Outputs	ABZ differential	/	/	ABZ differential	ABZ differential	ABZ differential		
+5V Output	5VDC 100mA	/	/	5VDC 100mA	5VDC 100mA	5VDC,100mA		
Bus Control	SCL	SCL	Modbus/RTU SCL		CANopen	Modbus/TCP eSCL	Profinet Modbus/TCP eSCL	Ethernet/IP Modbus/TCP eSCL
Counts/IO	√	√	/	√	/	√		
PLC (Q programmer)	√	√	√	√	√	√		

Model	Drive P/N	Torque [*1]	Rotor Inertia	Maximum Speed	Mass [*2]	Frame Size	Permissible Overhung Load(N)					Permissible Thrust Load(N)
							Distance(L) from Shaft End(mm)					
		N·m	gcm²	rpm	g	mm	0	5	10	15	20	
AM08RS1		0.03	1.6		50							
AM08RS2		0.042	2.9		70	20	12	15	20	-	-	
AM08RS3		0.05	4.2		90							
AM11RS1		0.065	9		118							
AM11RS2	SSDC03 / SSDC06	0.08	12		168	28	20	25	34	52	-	
AM11RS3		0.125	18		218							
AM17□□1		0.26	38		390							Less than the motor mass
AM17□□2		0.42	57	3000	440	42	35	44	58	85	-	
AM17□□3		0.52	82		520							
AM17□□4		0.7	123		760							
AM23□□2		0.95	260		850							
AM23□□3		1.5	460		1250							
AM23□□4	SSDC06 / SSDC10	2.4	365		1090	60	90	100	130	180	270	
AM24□□3		2.5	900		1650							
AM34□□1		2.7	915		2000							
AM34□□3		5.2	1480		3100	80	260	290	340	390	480	
AM34□□5		7.0	2200		4200							

NOTE:
□: SS or RS, refer to motor part numbering system.
*1: The motor maintains torque with both phases energized; *2: The actual weight of the product may vary by approximately 10%.
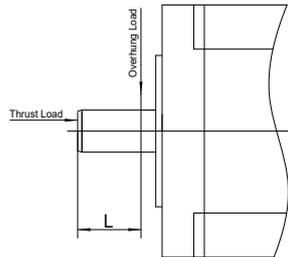
□ AM08RS Motor Standard Accessories (Included in the package)

Model	Qty	Catagory	Description
ZHR-6	1	Housing	Motor connector housing
SZH-002T-P.05	5	Crimp	Motor connector crimp
1004H-10A-N0HFNC	1	Housing	Encoder connector housing
1004T-PNS	12	Crimp	Encoder connector crimp

□ AM17/23/24/34RS Motor Standard Accessories (Included in the package)

Model	Qty	Catagory	Description
39-01-3049	1	Housing	Motor connector housing
39-00-0040	5	Crimp	Motor connector crimp
1-1903130-6	1	Housing	Encoder connector housing
190-3120-1	15	Crimp	Encoder connector crimp

□ AM17/23/24/34SS-N Motor Standard Accessories (Included in the package)

Model	Qty	Catagory	Description
39-01-3049	1	Housing	Motor connector housing
39-00-0040	5	Crimp	Motor connector crimp
1-1903130-0	1	Housing	Encoder connector housing
190-3120-1	15	Crimp	Encoder connector crimp

Motor Dimensions (Unit:mm)
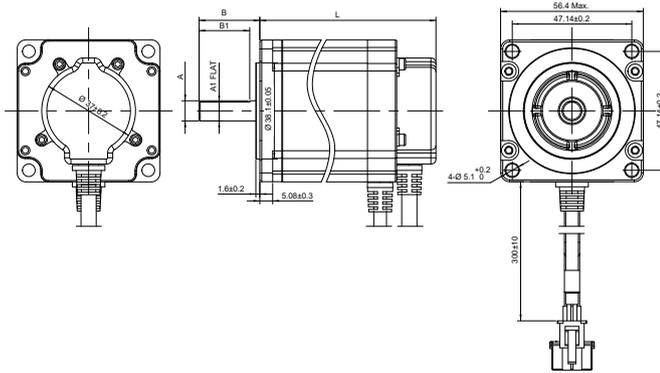
■ RS series 2500 line encoder stepper servo motor

□ AM11 Series

Model	A	A1	B	B1	L
AM11RS1DCA	Ø 5	4.5	15	10	52.5
AM11RS3DCA	Ø 5	4.5	15	10	72.8
AM11RS4DCA	Ø 5	4.5	15	10	82.6
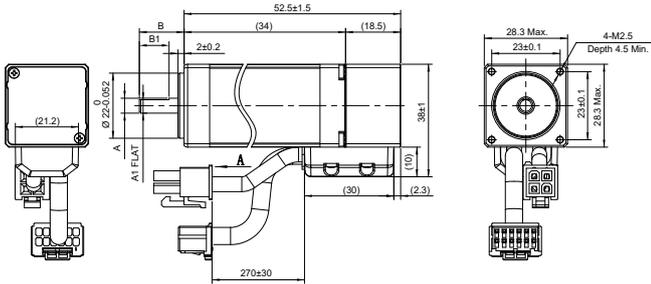
□ AM23 Series

Model	A	A1	B	B1	L
AM23RS2DCA	Ø 8	7.5	24	20	67
AM23RS2DCB	Ø 6.35	5.85	20	15	67
AM23RS3DCA	Ø 8	7.5	24	20	89
AM23RS3DCB	Ø 6.35	5.85	20	15	89
AM23RS4DCA	Ø 8	7.5	24	20	92

□ AM34 Series

Model	A	A1	B	B1	L
AM34RS1DCA	Ø 14	13	37	25	77.5
AM34RS3DCA	Ø 14	13	37	25	105.5
AM34RS5DCA	Ø 14	13	37	25	133.5
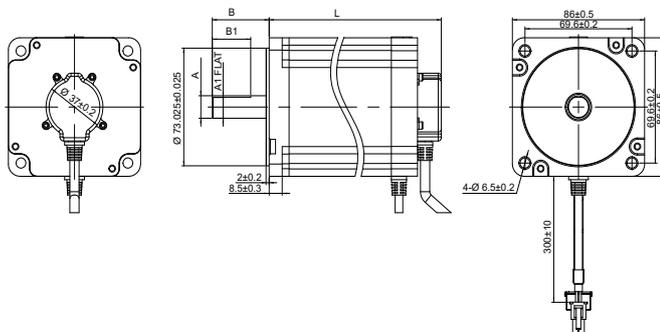
□ AM17 Series

Model	A	A1	B	B1	L
AM17RS1DCA	Ø 6	5.5	20	15	53.45
AM17RS1DCB	Ø 5	4.5	24	15	53.45
AM17RS2DCA	Ø 6	5.5	20	15	58.95
AM17RS2DCB	Ø 5	4.5	24	15	58.95
AM17RS3DCA	Ø 6	5.5	20	15	67.45
AM17RS3DCB	Ø 5	4.5	24	15	67.45
AM17RS4DCA	Ø 6	5.5	20	15	81.95
AM17RS4DCB	Ø 5	4.5	24	15	81.95
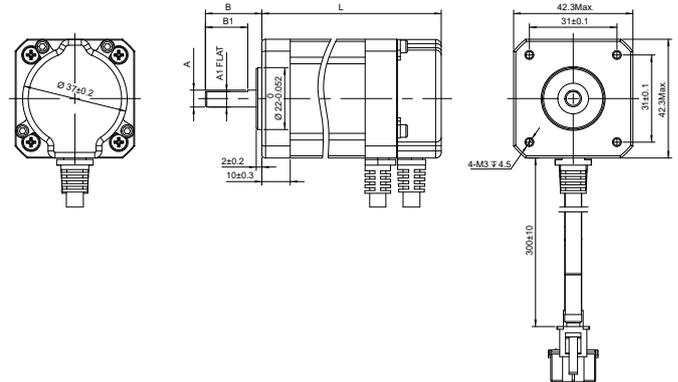
□ AM24 Series

Model	A	A1	B	B1	L
AM24RS3DCA	Ø 10	9.5	24	20	102
AM24RS3DCB	Ø 8	7.5	20.6	15	102
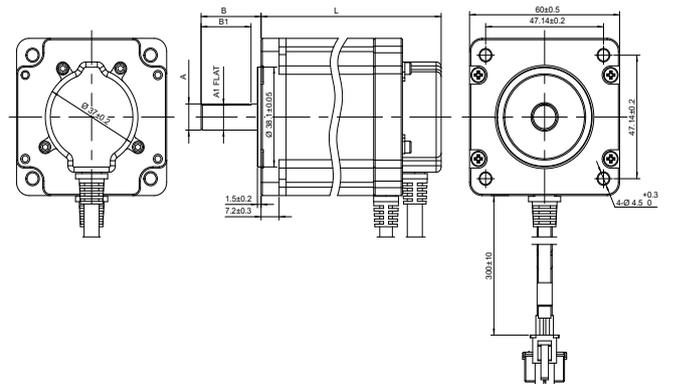
AM17 Series (with brake)

Model	A	A1	B	B1	L
AM17RS1DCA-BR01	Ø 6	5.5	20	15	81.15
AM17RS1DCB-BR01	Ø 5	4.5	24	15	81.15
AM17RS2DCA-BR01	Ø 6	5.5	20	15	86.65
AM17RS2DCB-BR01	Ø 5	4.5	24	15	86.65
AM17RS3DCA-BR01	Ø 6	5.5	20	15	95.15
AM17RS3DCB-BR01	Ø 5	4.5	24	15	95.15
AM17RS4DCA-BR01	Ø 6	5.5	20	15	109.65
AM17RS4DCB-BR01	Ø 5	4.5	24	15	109.65
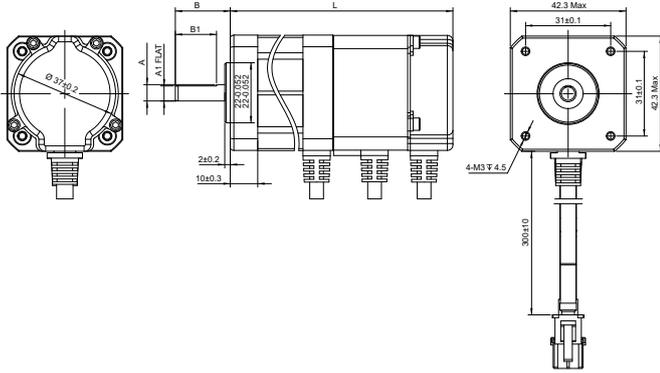
AM23 Series (with brake)

Model	A	A1	B	B1	L
AM23RS2DCA-BR01	Ø 8	7.5	24	20	99.7
AM23RS2DCB-BR01	Ø 6.35	5.85	20	15	99.7
AM23RS3DCA-BR01	Ø 8	7.5	24	20	122
AM23RS3DCB-BR01	Ø 6.35	5.85	20	15	122
AM23RS4DCA-BR01	Ø 8	7.5	24	20	125
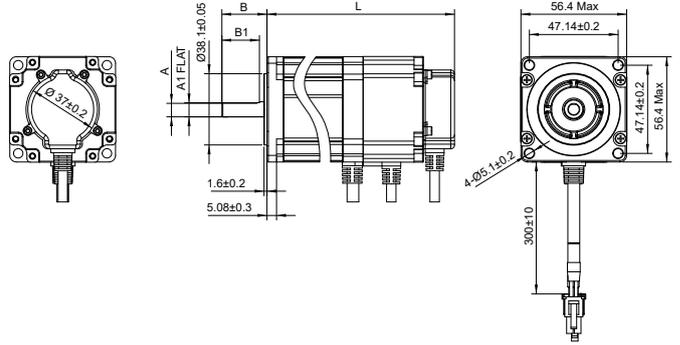
AM24 Series (with brake)

Model	A	A1	B	B1	L
AM24RS3DCA-BR01	Ø 10	9.5	24	20	134.7
AM24RS3DCB-BR01	Ø 8	7.5	20	15	134.7
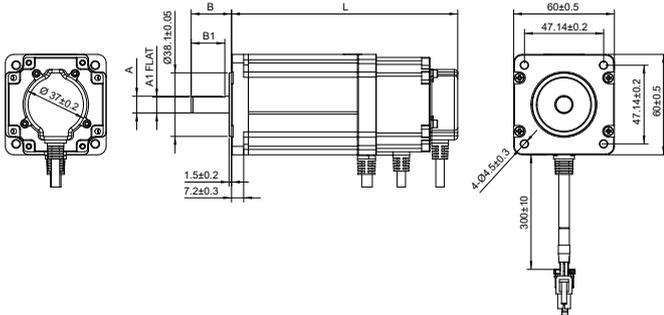
AM34 Series (with brake)

Model	A	A1	B	B1	L
AM34RS1DCA-BR01	Ø 14	13	37	25	112.2
AM34RS3DCA-BR01	Ø 14	13	37	25	140.2
AM34RS5DCA-BR01	Ø 14	13	37	25	168.2
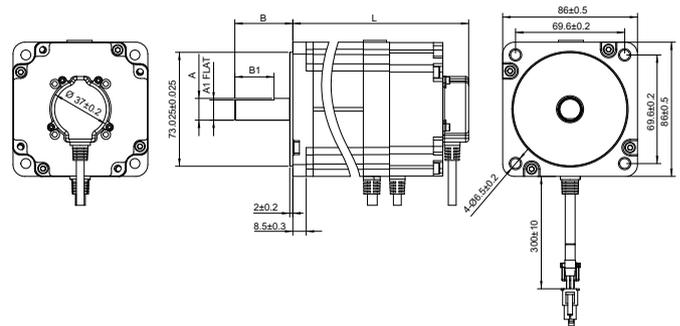
Brake Specifition

Model	Voltage (VDC)	Torque (N.m)	Power (W)	Reaction Time (ms)	Lifetime	Max Speed (rpm)	Insulation class
NEMA17	24	0.6	5.0	50	10000	5000	Class B
NEMA23/24	24	1.2	4.5	50	10000	1000	Class B
NEMA34	24	6.0	8.0	50	10000	5000	Class B

■ RS series 1024 line encoder stepper servo motor

□ AM08 Series

Model	L
AM08RS1DMA	45.5
AM08RS2DMA	55.5
AM08RS3DMA	62.5
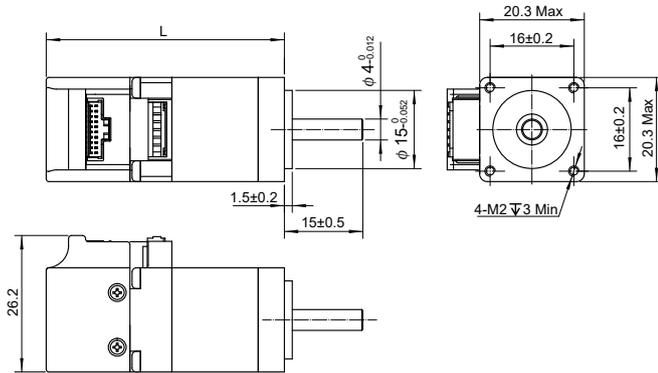
□ AM17 Series

Model	A	A1	B	B1	L
AM17RS1DMA	Ø 6	5.5	20	15	59.5
AM17RS1DMB	Ø 5	4.5	24	15	59.5
AM17RS2DMA	Ø 6	5.5	20	15	65
AM17RS2DMB	Ø 5	4.5	24	15	65
AM17RS3DMA	Ø 6	5.5	20	15	73.5
AM17RS3DMB	Ø 5	4.5	24	15	73.5
AM17RS4DMA	Ø 6	5.5	20	15	89
AM17RS4DMB	Ø 5	4.5	24	15	89
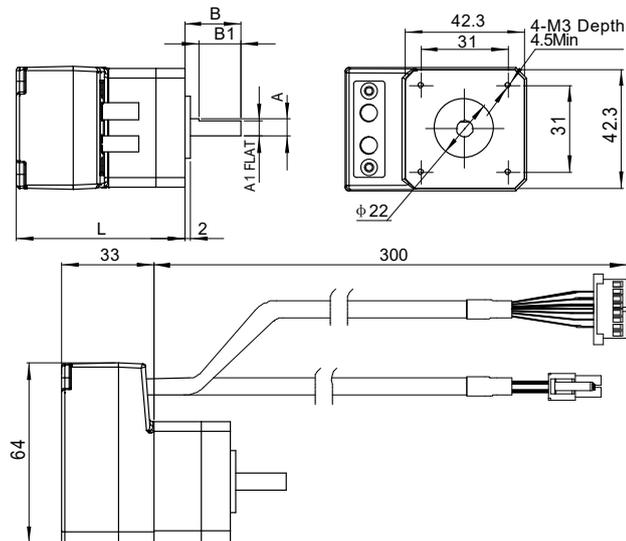
□ AM23 Series

Model	A	A1	B	B1	L
AM23RS2DMA	Ø 8	7.5	24	20	77.5
AM23RS2DMB	Ø 6.35	5.85	20	15	77.5
AM23RS3DMA	Ø 8	7.5	24	20	99.5
AM23RS3DMB	Ø 6.35	5.85	20	15	99.5
AM23RS4DMA	Ø 8	7.5	24	20	102.5
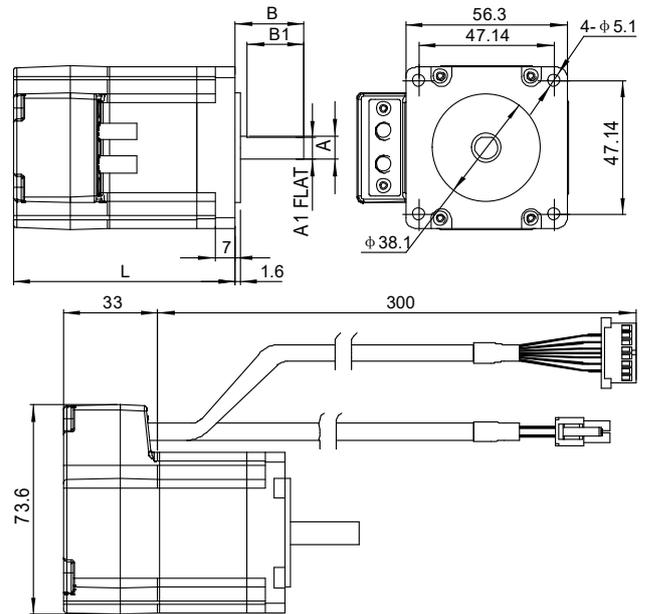
□ AM24 Series

Model	A	A1	B	B1	L
AM24RS3DMA	Ø 10	9.5	24	20	100
AM24RS3DMB	Ø 8	7.5	20.6	15	100
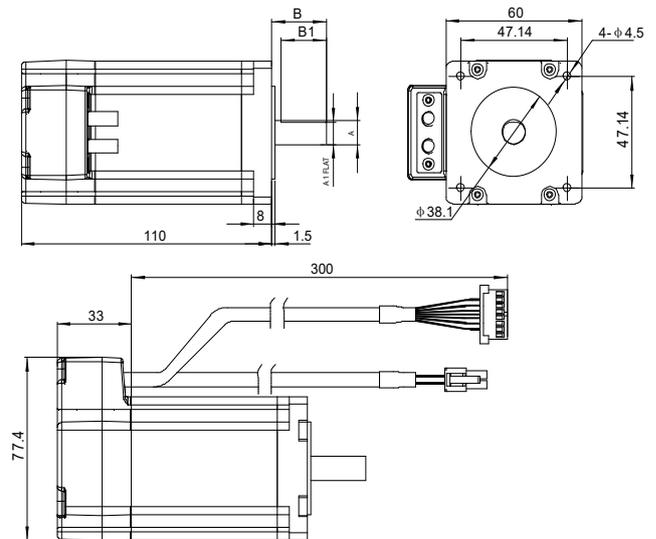
☐ AM34 Series

Model	A	A1	B	B1	L
AM34RS1DMA	Ø 14	13	37	25	88
AM34RS3DMA	Ø 14	13	37	25	117.5
AM34RS5DMA	Ø 14	13	37	25	147
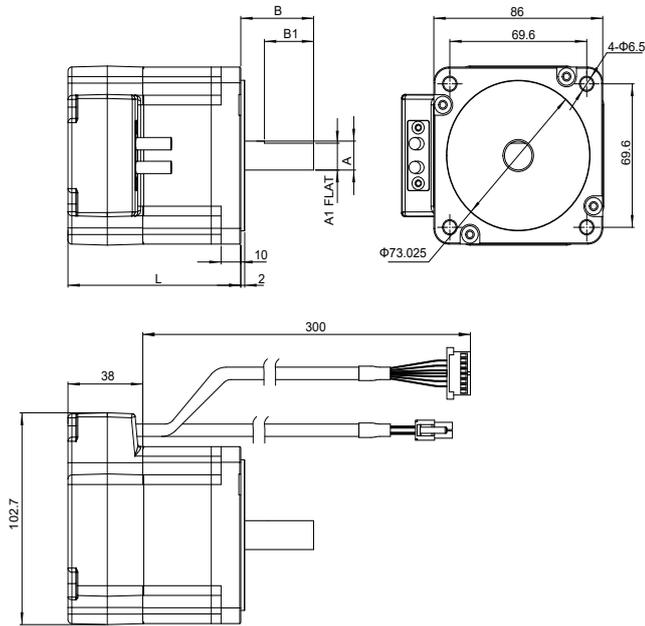
☐ AM17/23/24/34RS Motor Connector

Description	Model	The consumption of a single machine	Vendor
Power cable housing	39-01-3048	1	Molex
Power cable crimp	39-00-0038	4	Molex
Encoder cable housing	1-1827864-6	1	Tyco
Encoder cable crimp	1827569-2	11	Tyco

The connector in the above table refers to the connector on the lead wire of the motor, not the mating connector. For the model of the mating connector, please refer to the motor accessories table or related extension cables.
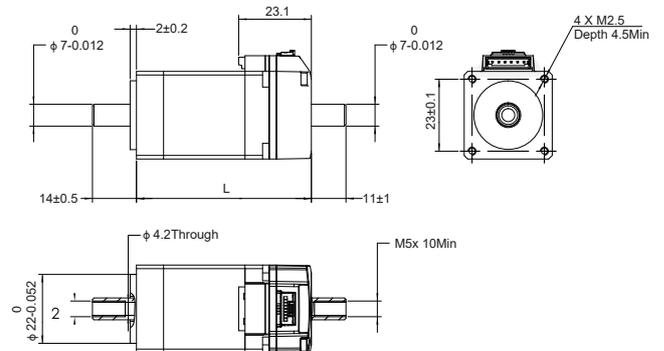
■ SS Hollow shaft stepper servo motor

☐ AM08 Series Hollow Shaft Type Motor

Model	L
AM08SS2DHA-M01	50.3
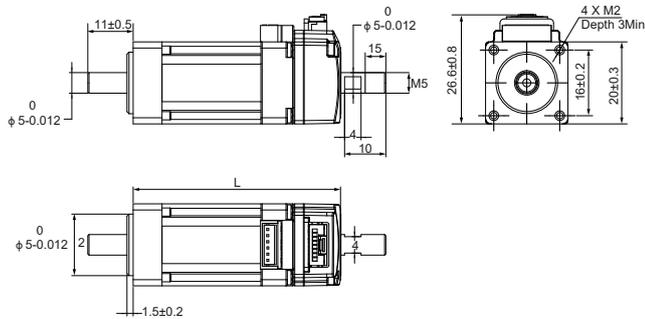
☐ AM11 Series Hollow Shaft Type Motor

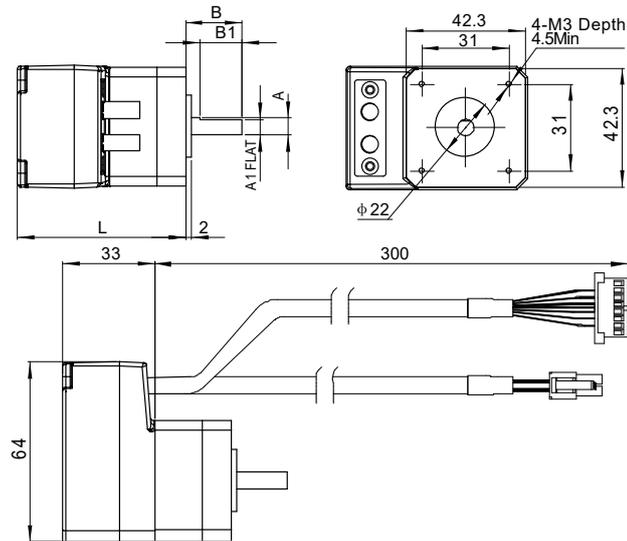| Model	L
AM11SS2DHA-M01	55.6

Note: For more product information, please contact your sales representative.

■ SS series 5000 line encoder stepper servo motor

□ AM17 Series

Model	A	A1	B	B1	L
AM17SS1DGA-N	Ø 6	5.5	20	15	59.5
AM17SS1DGB-N	Ø 5	4.5	24	15	59.5
AM17SS2DGA-N	Ø 6	5.5	20	15	65
AM17SS2DGB-N	Ø 5	4.5	24	15	65
AM17SS3DGA-N	Ø 6	5.5	20	15	73.5
AM17SS3DGB-N	Ø 5	4.5	24	15	73.5
AM17SS4DGA-N	Ø 6	5.5	20	15	89
AM17SS4DGB-N	Ø 5	4.5	24	15	89

□ AM23 Series

Model	A	A1	B	B1	L
AM23SS2DGA-N	Ø 8	7.5	24	20	77.5
AM23SS2DGB-N	Ø 6.35	5.85	20	15	77.5
AM23SS3DGA-N	Ø 8	7.5	24	20	99.5
AM23SS3DGB-N	Ø 6.35	5.85	20	15	99.5
AM23SS4DGA-N	Ø 8	7.5	24	20	102.5
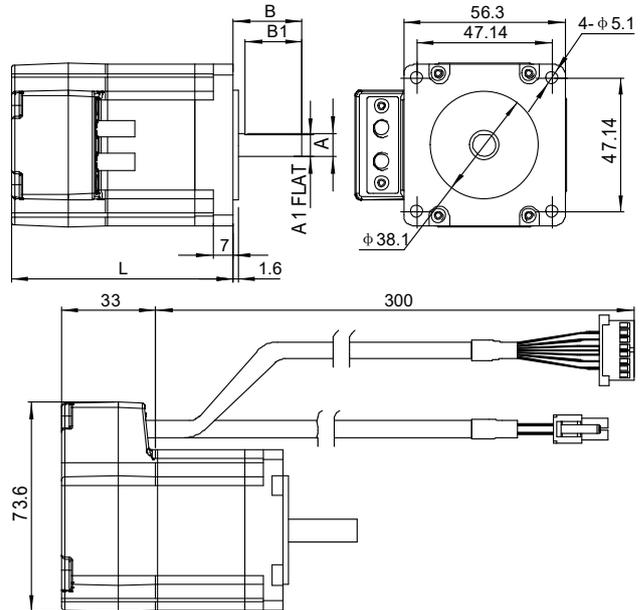
□ AM24 Series

Model	A	A1	B	B1	L
AM24SS3DGA-N	Ø 10	9.5	24	20	100
AM24SS3DGB-N	Ø 8	7.5	20.6	15	100
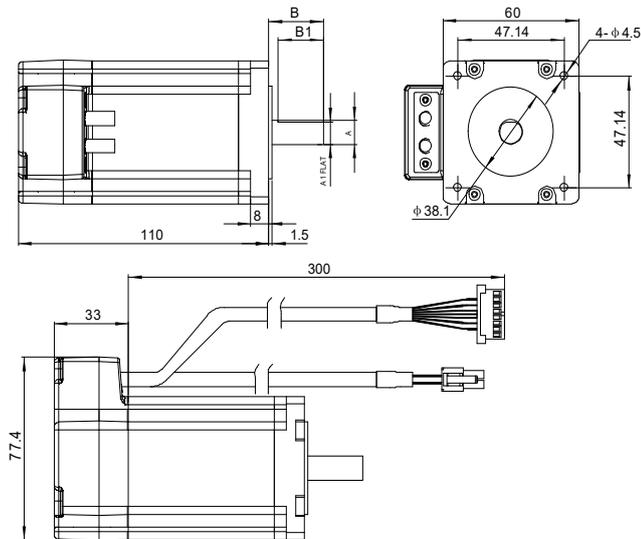
□ AM34 Series

Model	A	A1	B	B1	L
AM34SS1DGA-N	Ø 14	13	37	25	88
AM34SS3DGA-N	Ø 14	13	37	25	117.5
AM34SS5DGA-N	Ø 14	13	37	25	147
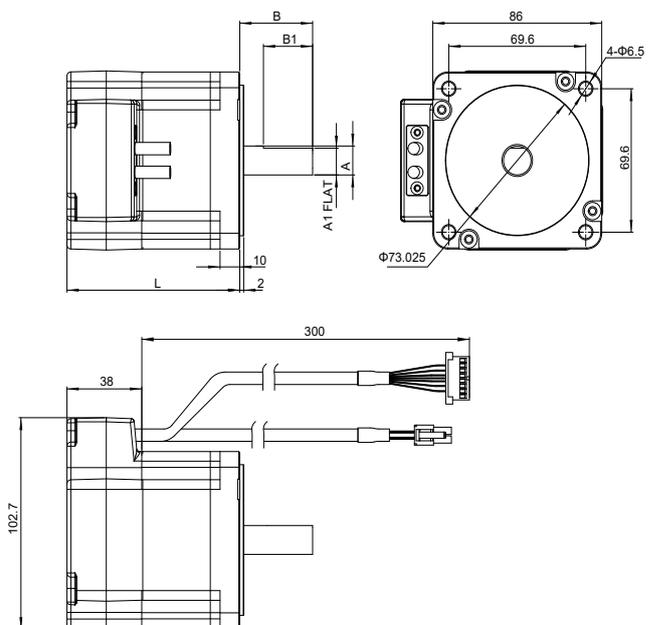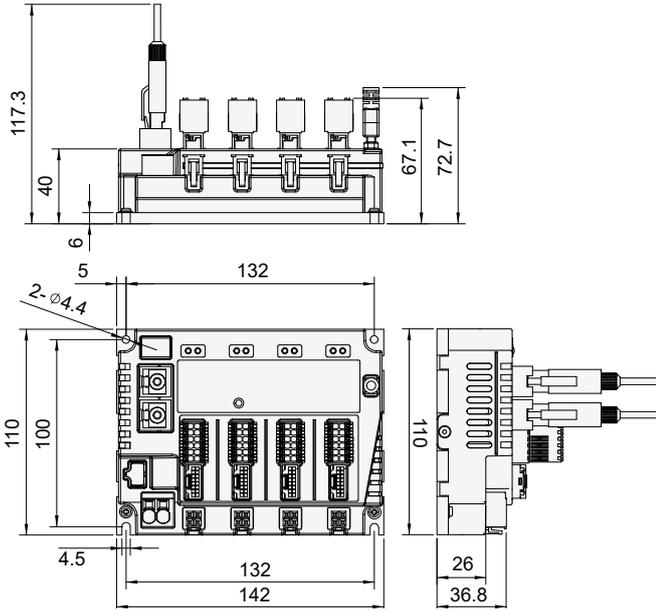
☐ SSDC-4X-ECX, SSDC-4X-ECX-S

☐ SSDC-2XU-ECX

☐ SSDC-2XU-ECX-S

☐ SSDC-4XU-ECX

SSDC-4XU-ECX-S

152±0.2
4.2
Ø4.2
19±0.2
Ground
5
152
160
114
61
93
5.7
38
28.6
39.1

SSDC06/10-ECX-J

138
131
3.5
2x4.2
30.8
11
131
3.5
40
90.3
79.5
127

SSDC06/10-ECX-H

138
131
3.5
2x4.2
30.8
11
131
3.5
40
90.3
79.5
127

SSDC03/06/10-D/IP/PN

4.2
25.5
16
ENCODER   I/O   ABZR   LED
123
130
185
90.4
77.5
65.9
16.6
123

SSDC03-R-mini

20
17
55
46
50
41
J6   J5   J1
J4
J3   J2
2x Ø3.4

SSDC06-ECX-mini

50±1
42±0.1
Ø3.3
Ground
80±1.5
72±0.1
3.3
79±2
28.2±0.5
2±0.2
(30.8)
(59.4)

28
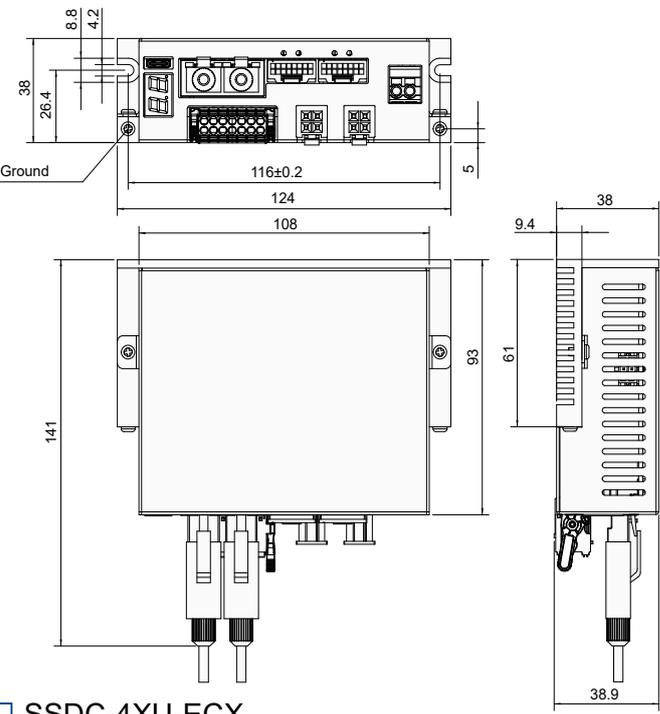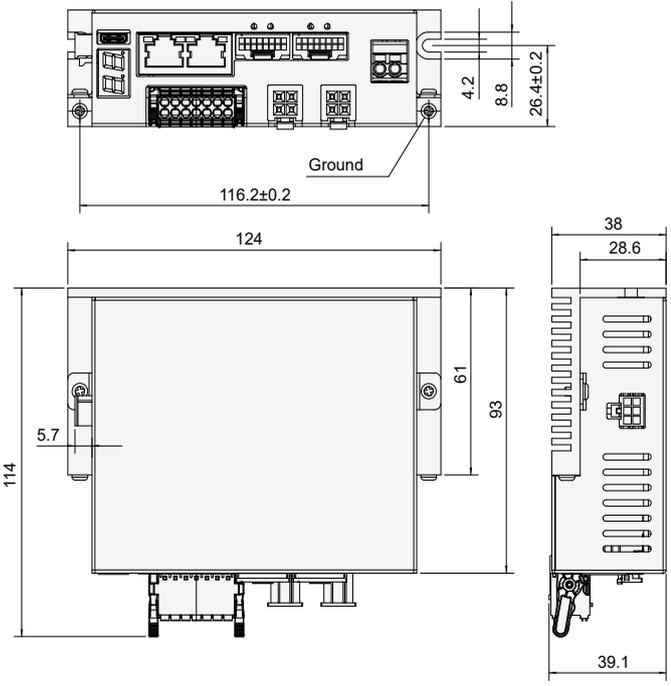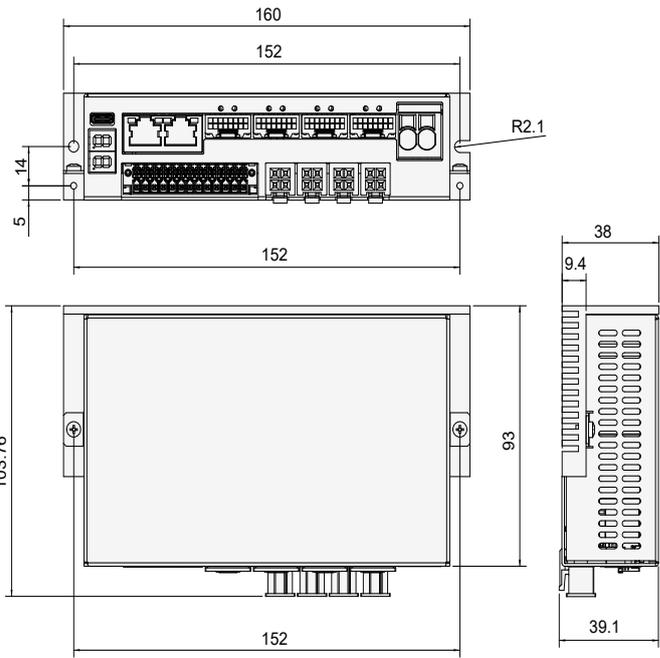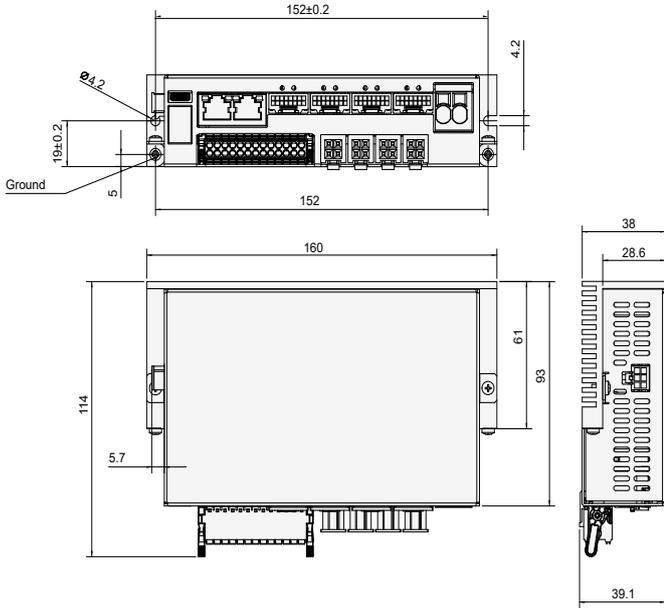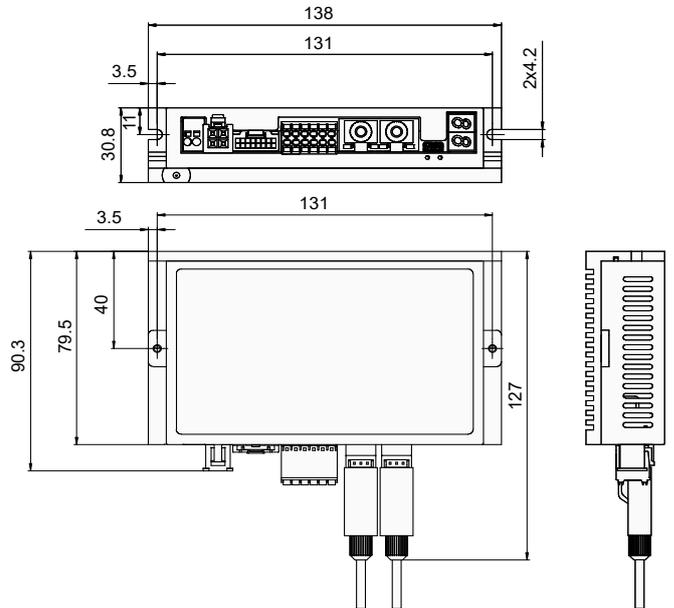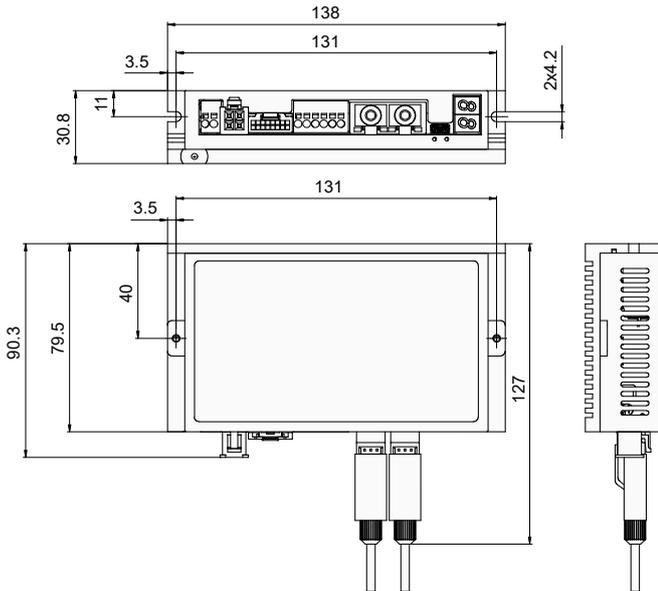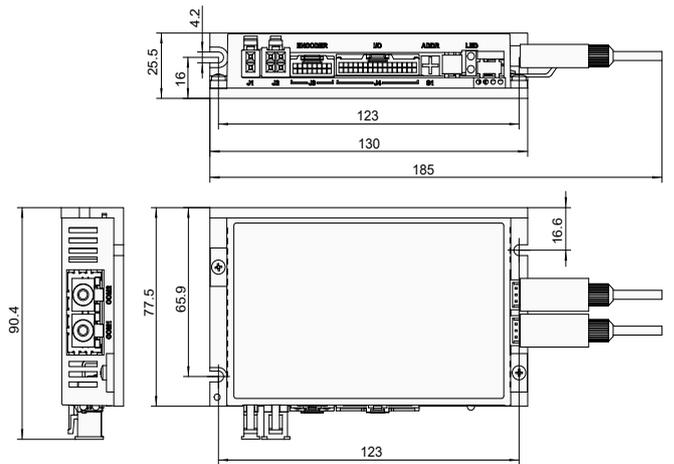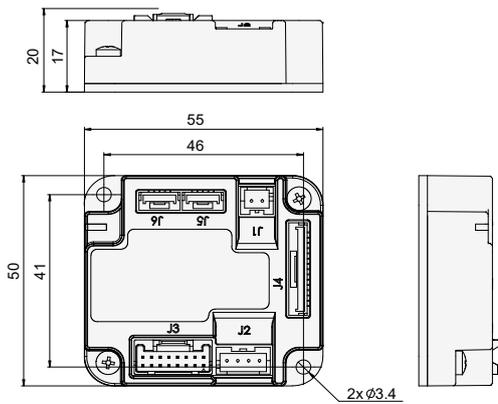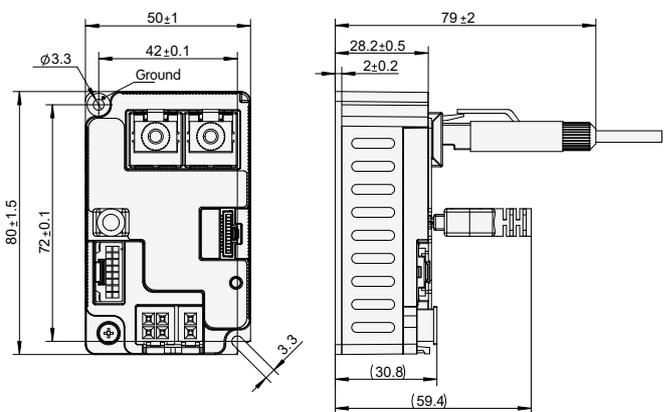
□ SSDC06/10-A-H
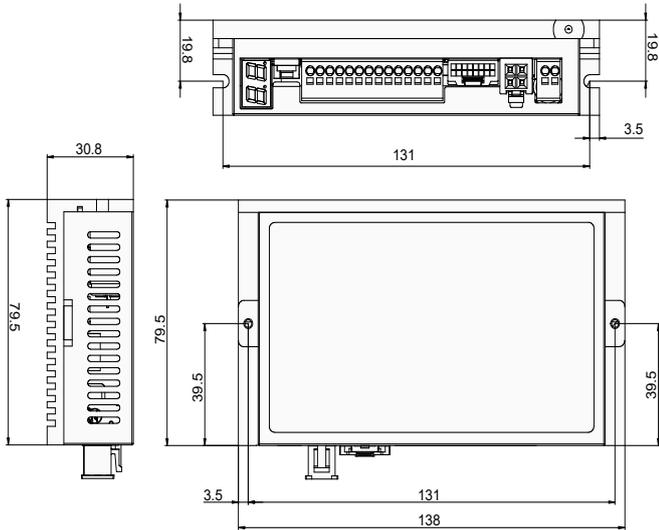
□ SSDC03/06/10-A
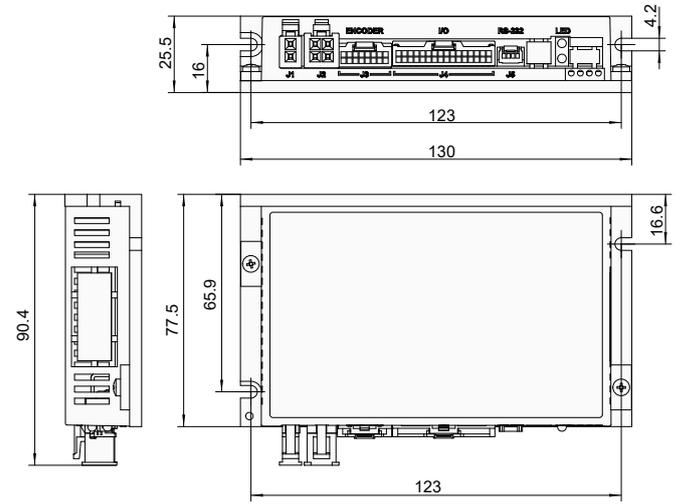
□ SSDC03/06/10-R，SSDC03/06/10-C
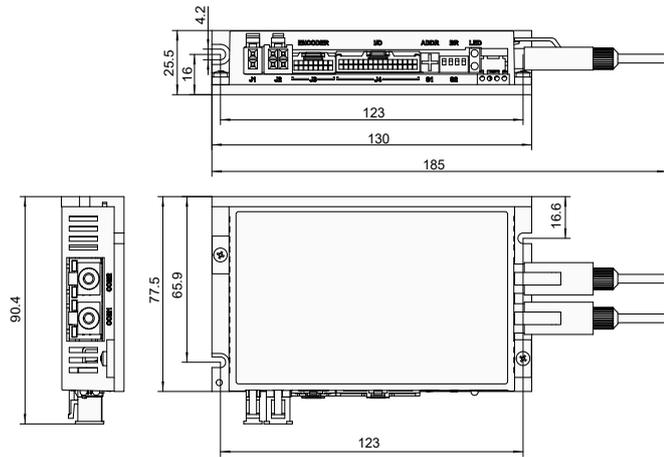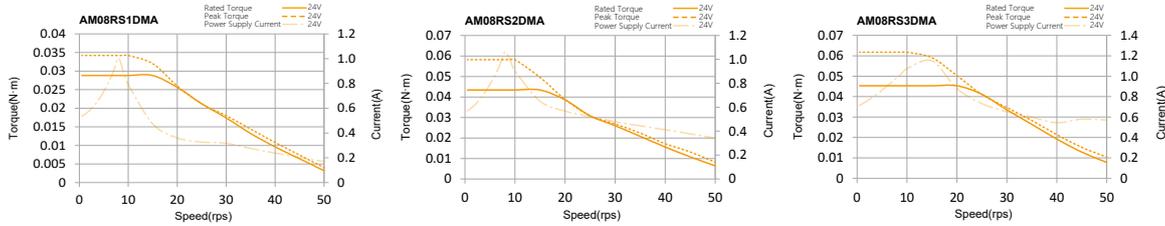
□ AM08RS Series

AM08RS1DMA

AM08RS2DMA

AM08RS3DMA

□ AM11RS Series

AM11RS1DMA

AM11RS2DMA

AM11RS3DMA

29

☐ AM17SS/RS Series

AM17SS1DG☐-N
AM17RS1D■☐

AM17SS2DG☐-N
AM17RS2D■☐

AM17SS3DG☐-N
AM17RS3D■☐

AM17SS4DG☐-N
AM17RS4D■☐

☐ AM23SS/RS Series

AM23SS2DG☐-N
AM23RS2D■☐

AM23SS3DG☐-N
AM23RS3D■☐

AM23SS4DGA-N
AM23RS4D■A

☐ AM24SS/RS Series

AM24SS3DG☐-N
AM24RS3D■☐

☐ AM34SS/RS Series

AM34SS1DGA-N
AM34RS1D■A

AM34SS3DGA-N
AM34RS3D■A

AM34SS5DGA-N
AM34RS5D■A
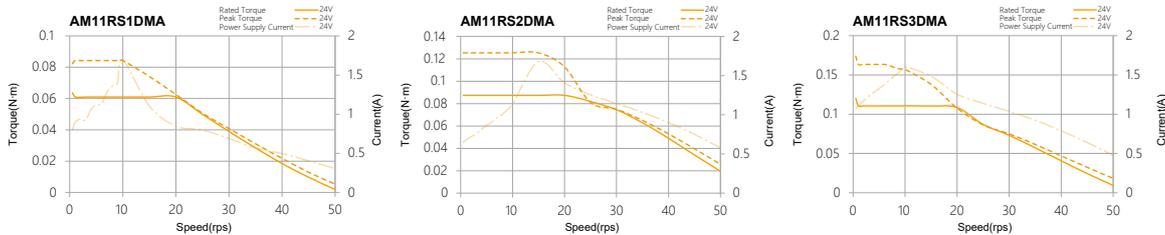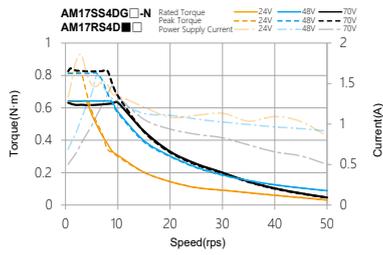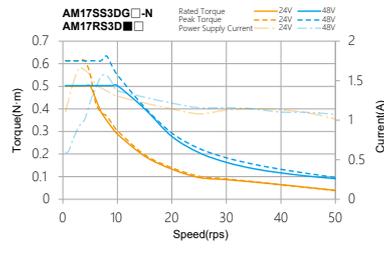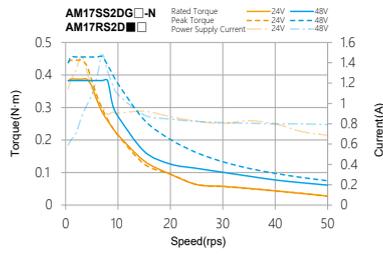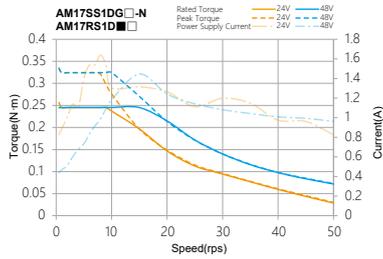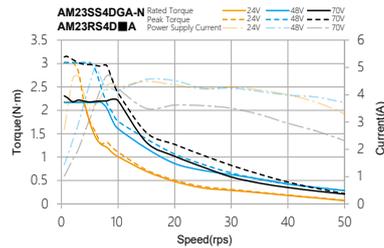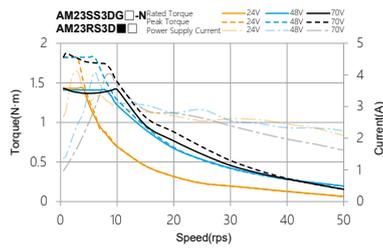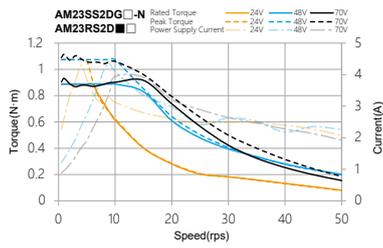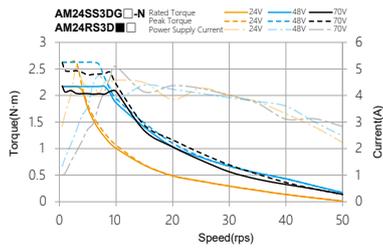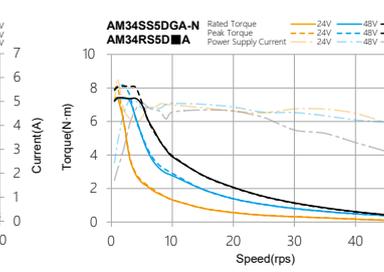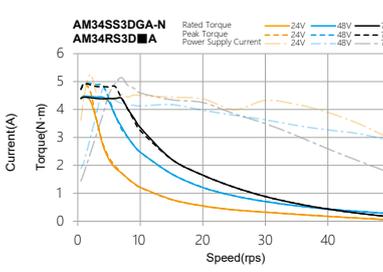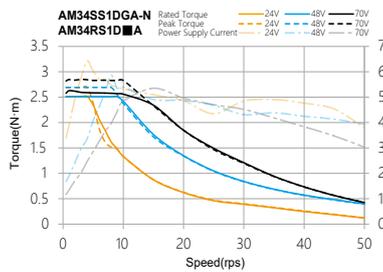
Note:
ll torque curves are tested under laboratory conditions, for reference only
☐ Indicates output shaft size: A or B, refer to the motor numbering system for details;
■ Indicates encoder resolution: C or G, refer to the motor numbering system for details.

☐ Extended motor cable (For AM08RS motor) (SSDC03-R-mini Only)

Housing: XAP-04V-1 (JST)
Crimp: SXA-001T-P0.6 (JST)

Housing: ZHR-6 (JST)
Crimp: SZH-002T-P0.5 (JST)
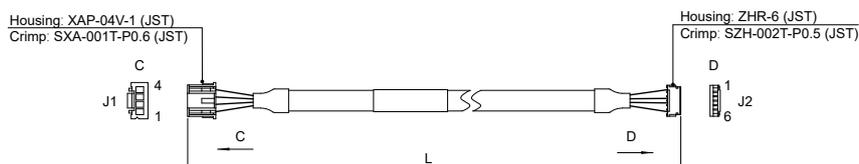
Model	Length(L)	Description		Wiring Diagram		
				PIN (J1)	Color (Signal)	PIN (J2)
2141-0100-C05	1m	Flexbile type， 5 million times bends		1	Blue(B-)	6
2141-0300-C05	3m	Flexbile type， 5 million times bends		2	Red(B+)	4
2141-0500-C05	5m	Flexbile type， 5 million times bends		3	Green(A-)	3
2141-1000-C05	10m	Flexbile type， 5 million times bends		4	Black(A+)	1

Note: The flexible wire is bent 5 million times under the conditions of a bending radius of 100mm, a stroke of 600mm, and a frequency of 60 times per minute.

☐ Extended motor cable (For AM17RS/SS-N motor) (SSDC03-R-mini Only)

Housing: XAP-04V-1 (JST)
Crimp: SXA-001T-P0.6 (JST)

Housing: 39-01-3049 (Molex)
Crimp: 39-00-0040 (Molex)
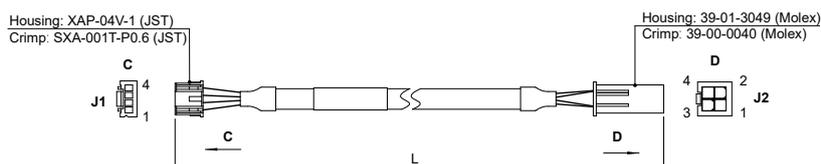
Model	Length(L)	Description		Wiring Diagram		
				PIN (J1)	Color	PIN (J2)
2143-0100-C05	1m	Flexbile type， 5 million times bends		1	Blue(B-)	1
2143-0300-C05	3m	Flexbile type， 5 million times bends		2	Red(B+)	2
2143-0500-C05	5m	Flexbile type， 5 million times bends		3	Green(A-)	3
2143-1000-C05	10m	Flexbile type， 5 million times bends		4	Black(A+)	4

Note: The flexible wire is bent 5 million times under the conditions of a bending radius of 100mm, a stroke of 600mm, and a frequency of 60 times per minute.

☐ Extended motor cable(For AM08RS motor)

Housing: ZHR-06(JST)
Crimp: SZH-002T-0.5(JST)

Housing: 39-01-3048(Molex)
Crimp: 39-00-0046(Molex)

Model	Length(L)	Description		Wiring Diagram			
				PIN (J1)	Color (Standard type)	Color (Flexbile type)	PIN (J2)
2136-0100	1m	Standard type		6	Blue(B-)	Blue(B-)	1
2136-0300	3m	Standard type		4	Red(B+)	Red(B+)	2
2136-0500	5m	Standard type		3	Green(A-)	Green(A-)	3
2136-1000	10m	Standard type		1	Black(A+)	Black(A+)	4
2136-0100-C05	1m	Flexbile type， 5 million times bends					
2136-0300-C05	3m	Flexbile type， 5 million times bends					
2136-0500-C05	5m	Flexbile type， 5 million times bends					
2136-1000-C05	10m	Flexbile type， 5 million times bends					

Note: The flexible wire is bent 5 million times under the conditions of a bending radius of 100mm, a stroke of 600mm, and a frequency of 60 times per minute.

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☐ Extended motor cable(For AM11RS ☐ DCA、AM17/23/24 motor)

Housing: 39-01-3049(Molex)
Crimp: 39-00-0040(Molex)

Housing: 39-01-3048(Molex)
Crimp: 39-00-0038(Molex)

Model	Length(L)	Description
2027-0100	1m	Standard type
2027-0300	3m	Standard type
2027-0500	5m	Standard type
2027-1000	10m	Standard type
2027-0100-C05	1m	Flexbile type, 5 million times bends
2027-0300-C05	3m	Flexbile type, 5 million times bends
2027-0500-C05	5m	Flexbile type, 5 million times bends
2027-1000-C05	10m	Flexbile type, 5 million times bends

Wiring Diagram			
PIN (J1)	Color (Standard type)	Color (Flexbile type)	PIN (J2)
1	Blue(B-)	Blue(B-)	1
2	Red(B+)	Red(B+)	2
3	Green(A-)	Green(A-)	3
4	Black(A+)	Black(A+)	4

Note: The flexible wire is bent 5 million times under the conditions of a bending radius of
100mm, a stroke of 600mm, and a frequency of 60 times per minute.

☐ Extended motor cable(For AM11RS ☐ DMA)

Housing : 51065-0600(Molex)
Crimp : 50212-8000(Molex)

Housing : 39-01-3048(Molex)
Crimp : 39-00-0038(Molex)

GND: RNB1-3.2(KS)

Model	Length(L)	Description
2109-0100	1m	Standard type
2109-0300	3m	Standard type
2109-0500	5m	Standard type
2109-1000	10m	Standard type
2109-0100-C05	1m	Flexbile type, 5 million times bends
2109-0300-C05	3m	Flexbile type, 5 million times bends
2109-0500-C05	5m	Flexbile type, 5 million times bends
2109-1000-C05	10m	Flexbile type, 5 million times bends

Wiring Diagram			
PIN (J1)	Color (Standard type)	Color (Flexbile type)	PIN (J2)
1	Blue(B-)	Blue/Black(B-)	1
3	Red(B+)	Blue(B+)	2
4	Green(A-)	Black(A-)	3
6	Black(A+)	Red(A+)	4

Note: The flexible wire is bent 5 million times under the conditions of a bending radius of
100mm, a stroke of 600mm, and a frequency of 60 times per minute.

☐ Extended motor cable(For AM34 motor)

Housing: 39-01-3049(Molex)
Crimp: 39-00-0040(Molex)

Housing: 39-01-3048(Molex)
Crimp: 39-00-0038(Molex)

Model	Length(L)	Description
2028-0100	1m	Standard type
2028-0300	3m	Standard type
2028-0500	5m	Standard type
2028-1000	10m	Standard type
2028-0100-C05	1m	Flexbile type, 5 million times bends
2028-0300-C05	3m	Flexbile type, 5 million times bends
2028-0500-C05	5m	Flexbile type, 5 million times bends
2028-1000-C05	10m	Flexbile type, 5 million times bends

Wiring Diagram			
PIN (J1)	Color (Standard type)	Color (Flexbile type)	PIN (J2)
1	Blue(B-)	Blue(B-)	1
2	Red(B+)	Red(B+)	2
3	Green(A-)	Green(A-)	3
4	Black(A+)	Black(A+)	4

Note: The flexible wire is bent 5 million times under the conditions of a bending radius of
100mm, a stroke of 600mm, and a frequency of 60 times per minute.
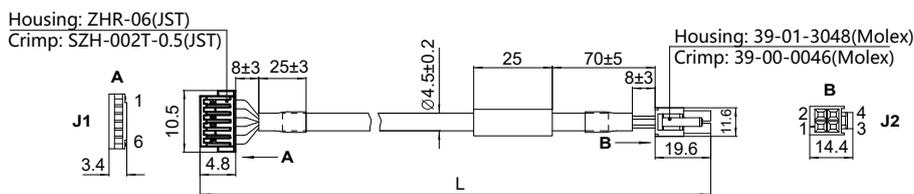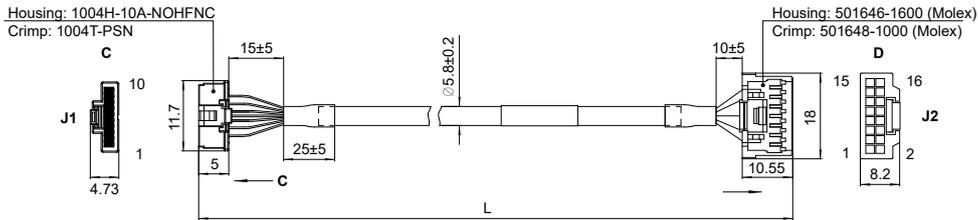
☐ Extended encoder cable(For AM08RS motor)

Housing: 1004H-10A-NOHFNC
Crimp: 1004T-PSN

Housing: 501646-1600 (Molex)
Crimp: 501648-1000 (Molex)

Model	Length(L)	Description
2163-0100	1m	Standard type
2163-0300	3m	Standard type
2163-0500	5m	Standard type
2163-1000	10m	Standard type
2163-0100-C05	1m	Flexbile type, 5 million times bends
2163-0300-C05	3m	Flexbile type, 5 million times bends
2163-0500-C05	5m	Flexbile type, 5 million times bends
2163-1000-C05	10m	Flexbile type, 5 million times bends

Wiring Diagram			
PIN (J1)	Color (Standard type)	Color (Flexbile type)	PIN (J2)
4	Blue(A+)	Blue(A+)	1
3	Blue/Black(A-)	Blue/Black(A-)	2
6	Green(B+)	Green(B+)	3
5	Green/Black(B-)	Green/Black(B-)	4
8	Yellow(Z+)	Yellow(Z+)	5
7	Yellow/Black(Z-)	Yellow/Black(Z-)	6
2	Red(+5V)	Red(+5V)	7
1	Black(GND)	Black(GND)	8
NC	Brown(U+)	Brown(U+)	NC
NC	Brown/Black(U-)	Brown/Black(U-)	NC
NC	Gray(V+)	Gray(V+)	NC
NC	Gray/Black(V-)	Gray/Black(V-)	NC
9	White(W+)	White(W+)	15
10	White/Black(W-)	White/Black(W-)	16
NC	Shield	Shield	10

☐ Extended encoder cable(For AM17/23/24/34SS-N motor)

Housing: 1-1903130-0(TYCO)
Crimp: 1903120-1(TYCO)

Housing: 501646-1600(Molex)
Crimp: 501648-1000(Molex)

Model	Length(L)	Description
2165-0100	1m	Standard type
2165-0300	3m	Standard type
2165-0500	5m	Standard type
2165-1000	10m	Standard type
2165-0100-C05	1m	Flexbile type, 5 million times bends
2165-0300-C05	3m	Flexbile type, 5 million times bends
2165-0500-C05	5m	Flexbile type, 5 million times bends
2165-1000-C05	10m	Flexbile type, 5 million times bends

Note: The flexible wire is bent 5 million times under the conditions of a bending radius of 100mm, a stroke of 600mm, and a frequency of 60 times per minute.
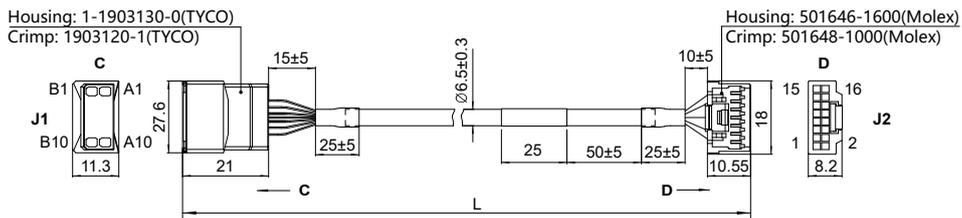
Wiring Diagram			
PIN (J1)	Color (Standard type)	Color (Flexbile type)	PIN (J2)
A9	Blue(A+)	Blue(A+)	1
B9	Blue/Black(A-)	Blue/Black(A-)	2
A8	Green(B+)	Green(B+)	3
B8	Green/Black(B-)	Green/Black(B-)	4
A7	Yellow(Z+)	Yellow(Z+)	5
B7	Yellow/Black(Z-)	Yellow/Black(Z-)	6
A6	Red(+5V)	Red(+5V)	7
B6	Black(GND)	Black(GND)	8
B5	Shield	Shield	10
A4	Brown(U+)	Brown(U+)	11
B4	Brown/Black(U-)	Brown/Black(U-)	12
A3	Gray(V+)	Gray(V+)	13
B3	Gray/Black(V-)	Gray/Black(V-)	14
A2	White(W+)	White(W+)	15
B2	White/Black(W-)	White/Black(W-)	16

☐ Extended encoder cable(For AM11RS ☐ DMA motor)

Housing: 501646-1200(Molex)
Crimp: 501648-1000(Molex)

Housing: 501646-1600(Molex)
Crimp: 501648-1000(Molex)
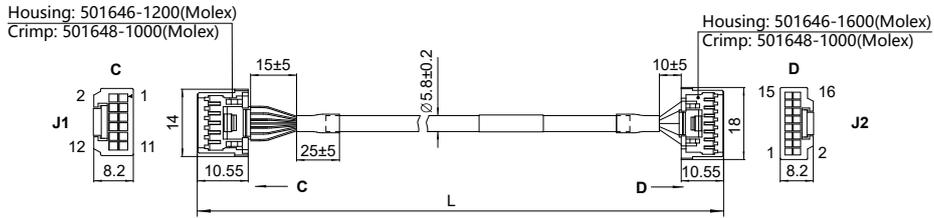
Model	Length(L)	Description
2164-0100	1m	Standard type
2164-0300	3m	Standard type
2164-0500	5m	Standard type
2164-1000	10m	Standard type
2164-0100-C05	1m	Flexbile type，5 million times bends
2164-0300-C05	3m	Flexbile type，5 million times bends
2164-0500-C05	5m	Flexbile type，5 million times bends
2164-1000-C05	10m	Flexbile type，5 million times bends

Note: The flexible wire is bent 5 million times under the conditions of a bending radius of 100mm, a stroke of 600mm, and a frequency of 60 times per minute.

Wiring Diagram			
PIN (J1)	Color (Standard type)	Color (Flexbile type)	PIN (J2)
10	Blue(A+)	Blue(A+)	1
9	Blue/Black(A-)	Blue/Black(A-)	2
8	Green(B+)	Green(B+)	3
7	Green/Black(B-)	Green/Black(B-)	4
6	Yellow(Z+)	Yellow(Z+)	5
5	Yellow/Black(Z-)	Yellow/Black(Z-)	6
3	Red(+5V)	Red(+5V)	7
4	Black(GND)	Black(GND)	8
1	White(W+)	White(W+)	15
2	White/Black(W-)	White/Black(W-)	16
12	Shield	Shield	10

☐ Extended encoder cable(For AM11RS ☐ DCA、AM17/23/34RS motor)

Housing: 1-1903130-6(TYCO)
Crimp: 1903120-1(TYCO)

Housing: 501646-1600(Molex)
Crimp: 501648-1000(Molex)
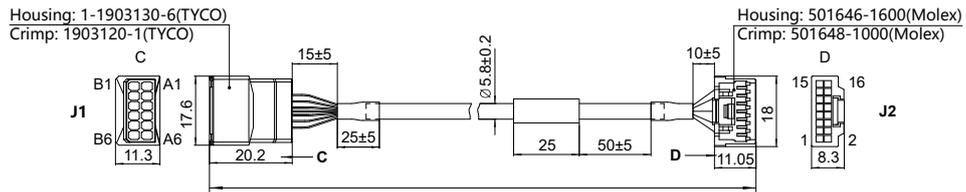
Model	Length(L)	Description
2159-0100	1m	Standard type
2159-0300	3m	Standard type
2159-0500	5m	Standard type
2159-1000	10m	Standard type
2159-0100-C05	1m	Flexbile type，5 million times bends
2159-0300-C05	3m	Flexbile type，5 million times bends
2159-0500-C05	5m	Flexbile type，5 million times bends
2159-1000-C05	10m	Flexbile type，5 million times bends

Note: The flexible wire is bent 5 million times under the conditions of a bending radius of 100mm, a stroke of 600mm, and a frequency of 60 times per minute.

Wiring Diagram			
PIN (J1)	Color (Standard type)	Color (Flexbile type)	PIN (J2)
A6	Blue(A+)	Blue(A+)	1
B6	Blue/Black(A-)	Blue/Black(A-)	2
A5	Green(B+)	Green(B+)	3
B5	Green/Black(B-)	Green/Black(B-)	4
A4	Yellow(Z+)	Yellow(Z+)	5
B4	Yellow/Black(Z-)	Yellow/Black(Z-)	6
A3	Red(+5V)	Red(+5V)	7
B3	Black(GND)	Black(GND)	8
A2	White(W+)	White(W+)	15
B2	White/Black(W-)	White/Black(W-)	16
A1	Shield	Shield	10

☐ I/O Cable (SSDC03-R-mini Only)

Housing: GHR-15V-S (JST)
Crimp: SSHL-002T-P0.2 (JST)

Model	Length(L)
1147-0100	1m
1147-0200	2m
1147-0300	3m

Wiring Diagram			
PIN (J1)	Color	PIN (J1)	Color
1	Black(X1+)	9	Gray(XCOM)
2	Brown(X1-)	10	White(Y1+)
3	Red(X2+)	11	Pink(Y1-)
4	Orange(X2-)	12	Black/White(Y2+)
5	Yellow(X3)	13	Brown/White(Y2-)
6	Green(X4)	14	Red/White(Y3+)
7	Blue(X5)	15	Blue/White(Y3-)
8	Violet(X6)	16	Green/White(NC)

☐ I/O Cable (SSDC06-ECX-mini Only)

Housing: 1004H-12A-NONC
Crimp: 1004T-PSN
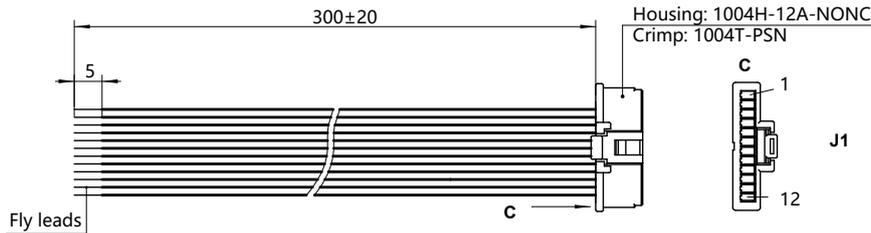
Model	Length(L)
1143-0030	0.3m

Wiring Diagram			
PIN (J1)	Color	PIN (J1)	Color
1	Violet(X1+)	7	Green/White(XCOM)
2	Orange(X1-)	8	Green(Y1)
3	White(X2+)	9	Blue/White(Y2)
4	Brown(X2-)	10	Blue(YCOM)
5	Yellow(X3)	11	Red(V+)
6	Gray(X4)	12	Black(V-)

☐ Extended power cable (SSDC03-R-mini Only)

Housing: XAP-02V-1 (JST)
Crimp: SXA-001T-P0.6 (JST)
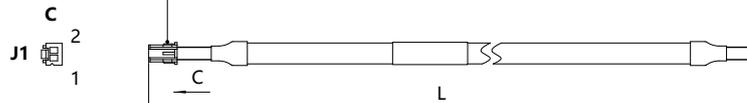
Model	Length(L)
1148-0100	1m
1148-0200	2m
1148-0300	3m

Wiring Diagram			
PIN (J1)	Color	PIN (J1)	Color
1	Brown	2	Blue

☐ Extended communication cable (SSDC03-R-mini Only)

Housing: GHR-05V-S (JST)
Crimp: SSHL-002T-P0.2 (JST)

Housing: GHR-05V-S (JST)
Crimp: RNB1-3.2 (KST)
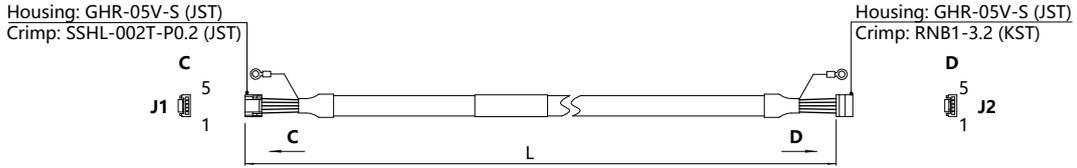
Model	Length(L)	Description
2144-0100	1m	Shielded Type
2144-0300	3m	Shielded Type
2144-0500	5m	Shielded Type
2144-1000	10m	Shielded Type

Wiring Diagram		
PIN (J1)	Color	PIN (J2)
1	Blue(RX+)	1
2	Blue/Black(RX-)	2
3	Yellow(TX+)	3
4	Yellow/Black(TX-)	4
5	Black(GND)	5
NC	Red	NC
NC	Green	NC
NC	Green/Black	NC

☐ I/O Cable

Housing : 501646-3200(Molex)
Crimp : 501648-1000(Molex)

Fly leads
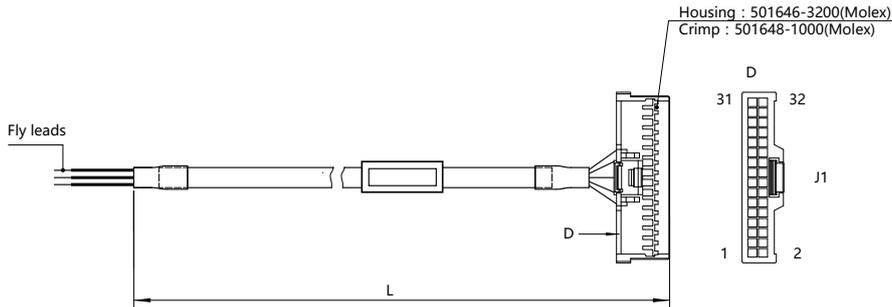
Model	Length(L)	Description
1117-100	1M	Shielded Type
1117-200	2M	Shielded Type

Wiring Diagram			
PIN (J1)	Color (Signal)	PIN (J1)	Color (Signal)
1	Blue/White(X1+)	17	NC
2	Blue/Black(X1-)	18	NC
3	Green/White(X2+)	19	Brown/White(Y1+)
4	GreenBlack(X2-)	20	Brown/Black(Y1-)
5	Red(X3+)	21	Gray/White(Y2+)
6	Orange(X3-)	22	Gray/Black(Y2-)
7	Blue(X4+)	23	Violet/White(Y3+)
8	Violet(X4-)	24	Violet/Black(Y3-)
9	Yellow(X5)	25	Pink(Y4+)
10	Green(X6)	26	Yellow/Green(Y4-)
11	Brown(X7)	27	Red/White(ENC A+)
12	Gray(X8)	28	Red/Black(ENC A-)
13	Shield	29	Orange/White(ENC B+)
14	White(XCOM)	30	Orange/Black(ENC B-)
15	Black(GND)	21	Yellow/White(ENC Z+)
16	NC	32	Yellow/Black(ENC Z-)

☐ Brake extension cable

Fly leads

Housing: TYCO AMP 172233-1
Crimp: TYCO AMP 170362-1
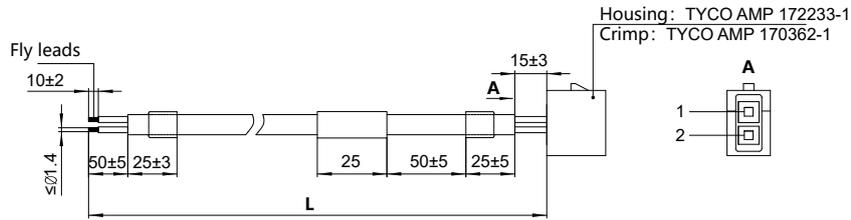
Model	Length(L)	Description
1602-100	1m	Standard type
1602-300	3m	Standard type
1602-500	5m	Standard type
1602-1000	10m	Standard type
1602-100-C05	1m	Flexbile type，5 million times bends
1602-300-C05	3m	Flexbile type，5 million times bends
1602-500-C05	5m	Flexbile type，5 million times bends
1602-1000-C05	10m	Flexbile type，5 million times bends

Wiring Diagram	
Pin	Color (Signal)
1	Red
2	Black

Note: The flexible wire is bent 5 million times under the conditions of a bending radius of 100mm, a stroke of 600mm, and a frequency of 60 times per minute.
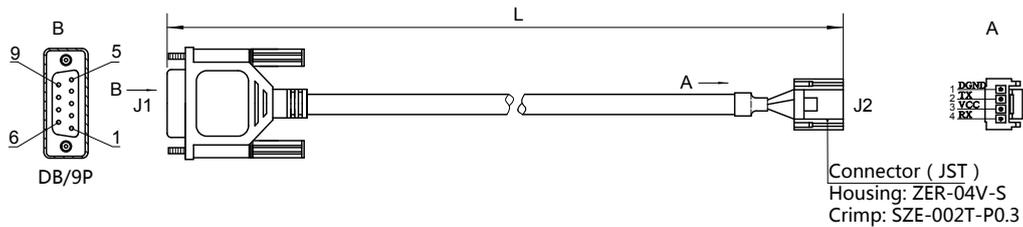
☐ Network Cable

Model	Length(L)	Description
2012-030*	0.3m	Standard type
2012-300	3m	Standard type
2013-030	0.3m	Shielded Type
2013-300	3m	Shielded Type

* 2012-030 is included in the drive package(except SSDC-A, SSDC-EC type).

☐ Configuration Cable

▪ SSDC-EC、SSDC-A configuration cable

Connector（JST）
Housing: ZER-04V-S
Crimp: SZE-002T-P0.3

Model	Length(L)	Description
2101-150 *	1.5m	Standard type

*2101-150 is included in the drive package

▪ SSDC-R Configuration cable

RJ-45 plugs

Connector : 5-569542-2(AMP)
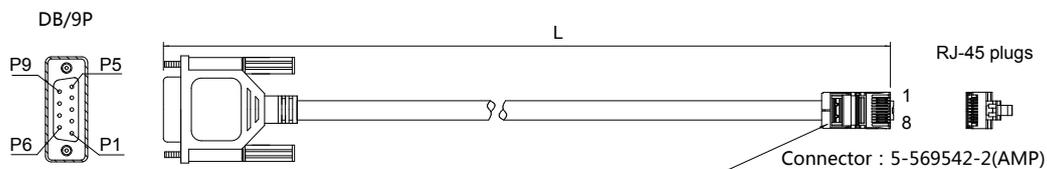
Model	Length(L)	Description
2102-150	1.5m	Standard type

- SSDC-C Configuration cable

DB/9P

P9 P5

P6 P1

L

RJ-45 plugs

1

8

Connector : 5-569542-2(AMP)
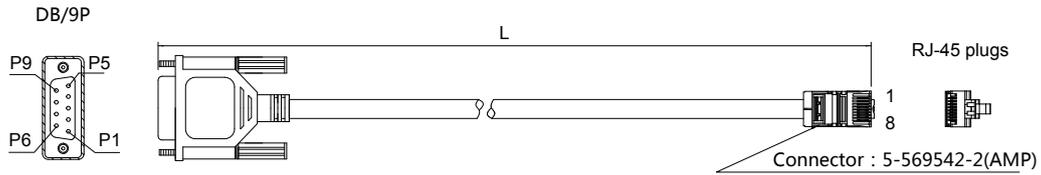
Model	Length(L)	Description
2019-150	1.5m	Standard type

□ Egeneration Clamp
P/N   RC880

When using a regulated power supply you may encounter a problem with regeneration. The kinetic energy caused by regeneration is transferred back to the power supply. This can trip the over-voltage protection of a switching power supply, causing it to shut down.

MOONS' offers the RC880 "regeneration clamp"to solve this problem. If in doubt, use an RC880 for your first installation. If the "Regen" LED on the RC880 never flashes, you don't need the clamp.

28.6   76
45

94   85   85

Unit: mm
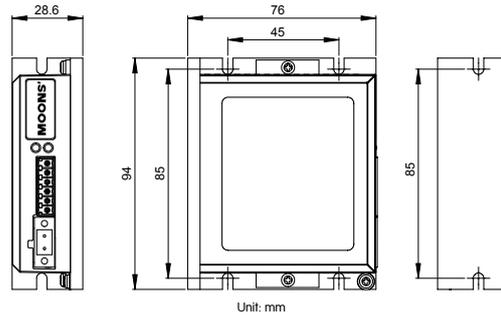
◇ USB Converter

Model: MS-USB-RS232-01
Description: USB-RS232 Converter

Model: MS-USB-RS485-01
Description: USB-RS485 Converter

Model: MS-USB-CAN-01
Description: USB-CAN Converter

■ Drive

□ Multi-Axis Series

Model	UL Model	Current	Voltage	Multi-functional Capability
				EtherCAT
SSDC06-4X-ECX	SSDC06-4X-ECX-FC	0.1-6.0A※	24-60VDC	√
SSDC10-4X-ECX	SSDC10-4X-ECX-FC	0.1-10.0A※	24-60VDC	√
SSDC06-4X-ECX-S *	SSDC06-4X-ECX-S-FC *	0.1-6.0A※	24-60VDC	√
SSDC10-4X-ECX-S *	SSDC10-4X-ECX-S-FC *	0.1-10.0A※	24-60VDC	√
SSDC06-2XU-ECX	SSDC06-2XU-ECX-FC	0.1-6.0A※	24-60VDC	√
SSDC10-2XU-ECX	SSDC10-2XU-ECX-FC	0.1-10.0A※	24-60VDC	√
SSDC06-2XU-ECX-S *	SSDC06-2XU-ECX-S-FC *	0.1-6.0A※	24-60VDC	√
SSDC10-2XU-ECX-S *	SSDC10-2XU-ECX-S-FC *	0.1-10.0A※	24-60VDC	√
SSDC06-4XU-ECX	SSDC06-4XU-ECX-FC	0.1-6.0A※	24-60VDC	√
SSDC10-4XU-ECX	SSDC10-4XU-ECX-FC	0.1-10.0A※	24-60VDC	√
SSDC06-4XU-ECX-S *	SSDC06-4XU-ECX-S-FC *	0.1-6.0A※	24-60VDC	√
SSDC10-4XU-ECX-S *	SSDC10-4XU-ECX-S-FC *	0.1-10.0A※	24-60VDC	√

※：SSDC06-2X/2XU continuous 4*6A, boost 4*7.5A(1.5s)；SSDC10-2X continuous 4*10A, boost 4*15A(1.5s).
　　SSDC10-4X/4XU continuous 4*6A, boost 4*7.5A(1.5s)；SSDC10-4X continuous 4*10A, boost 4*15A(1.5s).
*：With STO

□ Standard Series

Model	UL Model	Current	Voltage	Multi-functional Capability								
				Pulse	Analog	Modbus/RTU	CANopen	Modbus/TCP	EtherNet/IP	EtherCAT	Profinet	SCL/Q
SSDC06-ECX-H	SSDC06-ECX-H-FC	0.1-6.0A	24-60VDC							√		√
SSDC10-ECX-H	SSDC10-ECX-H-FC	0.1-10.0A	24-60VDC							√		√
SSDC06-ECX-J	SSDC06-ECX-J-FC	0.1-6.0A	24-60VDC		√					√		√
SSDC10-ECX-J	SSDC10-ECX-J-FC	0.1-10.0A	24-60VDC		√					√		√
SSDC06-A-H	SSDC06-A-H-FC	0.1-6.0A	24-60VDC	√		√						√
SSDC10-A-H	SSDC10-A-H-FC	0.1-10.0A	24-60VDC	√		√						√
SSDC06-PN-01	SSDC06-PN-FC	0.1-6.0A	24-60VDC		√						√	√
SSDC10-PN-01	SSDC10-PN-FC	0.1-10.0A	24-60VDC		√						√	√
SSDC03-A	SSDC03-A-FC	0.1-3.0A	12-48VDC	√	√							√
SSDC06-A	SSDC06-A-FC	0.1-6.0A	24-60VDC	√	√							√
SSDC10-A	SSDC10-A-FC	0.1-10.0A	24-60VDC	√	√							√
SSDC03-R	SSDC03-R-FC	0.1-3.0A	12-48VDC	√	√	√						√
SSDC06-R	SSDC06-R-FC	0.1-6.0A	24-60VDC	√	√	√						√
SSDC10-R	SSDC10-R-FC	0.1-10.0A	24-60VDC	√	√	√						√
SSDC03-C	SSDC03-C-FC	0.1-3.0A	12-48VDC				√					√
SSDC06-C	SSDC06-C-FC	0.1-6.0A	24-60VDC				√					√
SSDC10-C	SSDC10-C-FC	0.1-10.0A	24-60VDC				√					√
SSDC03-D	SSDC03-D-FC	0.1-3.0A	12-48VDC	√	√			√				√
SSDC06-D	SSDC06-D-FC	0.1-6.0A	24-60VDC	√	√			√				√
SSDC10-D	SSDC10-D-FC	0.1-10.0A	24-60VDC	√	√			√				√
SSDC03-IP	SSDC03-IP-FC	0.1-3.0A	12-48VDC	√	√			√	√			√
SSDC06-IP	SSDC06-IP-FC	0.1-6.0A	24-60VDC	√	√			√	√			√
SSDC10-IP	SSDC10-IP-FC	0.1-10.0A	24-60VDC	√	√			√	√			√

■ Motor

Model	UL Model	Drive P/N	Torque N·m	Rotor Inertia gcm²	Encoder Resolution counts/rev	Maximum Speed RPM	Mass g	Frame Size mm	Permissible Overhung Load(N) Distance(L) from Shaft End(mm)					Permissible Thrust Load
									0	5	10	15	20	
AM17RS1DMA	AM17RS1DMA-F	SSDC03 or SSDC06	0.26	38	4096	3000	390	42	35	44	58	85	-	Less than the motor mass
AM17RS1DMB	AM17RS1DMB-F													
AM17RS2DMA	AM17RS2DMA-F		0.42	57			440							
AM17RS2DMB	AM17RS2DMB-F													
AM17RS3DMA	AM17RS3DMA-F		0.52	82			520							
AM17RS3DMB	AM17RS3DMB-F													
AM17RS4DMA	AM17RS4DMA-F		0.7	123			760							
AM17RS4DMB	AM17RS4DMB-F													
AM17SS1DGA-N	AM17SS1DGA-F		0.26	38	20000		390							
AM17SS1DGB-N	AM17SS1DGB-F													
AM17SS2DGA-N	AM17SS2DGA-F		0.42	57			440							
AM17SS2DGB-N	AM17SS2DGB-F													
AM17SS3DGA-N	AM17SS3DGA-F		0.52	82			520							
AM17SS3DGB-N	AM17SS3DGB-F													
AM17SS4DGA-N	AM17SS4DGA-F		0.7	123			760							
AM17SS4DGB-N	AM17SS4DGB-F													
AM23RS2DMA	AM23RS2DMA-F	SSDC06 or SSDC10	0.95	260	4096		850	56	63	75	95	130	190	
AM23RS2DMB	AM23RS2DMB-F													
AM23RS3DMA	AM23RS3DMA-F		1.5	460			1250							
AM23RS3DMB	AM23RS3DMB-F													
AM23RS4DMA	AM23RS4DMA-F		2.4	365			1090							
AM23SS2DGA-N	AM23SS2DGA-F		0.95	260	20000		850							
AM23SS2DGB-N	AM23SS2DGB-F													
AM23SS3DGA-N	AM23SS3DGA-F		1.5	460			1250							
AM23SS3DGB-N	AM23SS3DGB-F													
AM23SS4DGA-N	AM23SS4DGA-F		2.4	365			1090							
AM24RS3DMA	AM24RS3DMA-F		2.5	900	4096		1650	60	90	100	130	180	270	
AM24RS3DMB	AM24RS3DMB-F													
AM24SS3DGA-N	AM24SS3DGA-F		2.5	900	20000		1650							
AM24SS3DGB-N	AM24SS3DGB-F													
AM34RS1DMA	AM34RS1DMA-F	SSDC10	2.7	915	4096		2000	86	260	290	340	390	480	
AM34RS3DMA	AM34RS3DMA-F		5.2	1480			3100							
AM34RS5DMA	AM34RS5DMA-F		7.0	2200			4200							
AM34SS1DGA-N	AM34SS1DGA-F		2.7	915	20000		2000	86	260	290	340	390	480	
AM34SS3DGA-N	AM34SS3DGA-F		5.2	1480			3100							
AM34SS5DGA-N	AM34SS5DGA-F		7.0	2200			4200							

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