

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



Industrial Field Bus Control

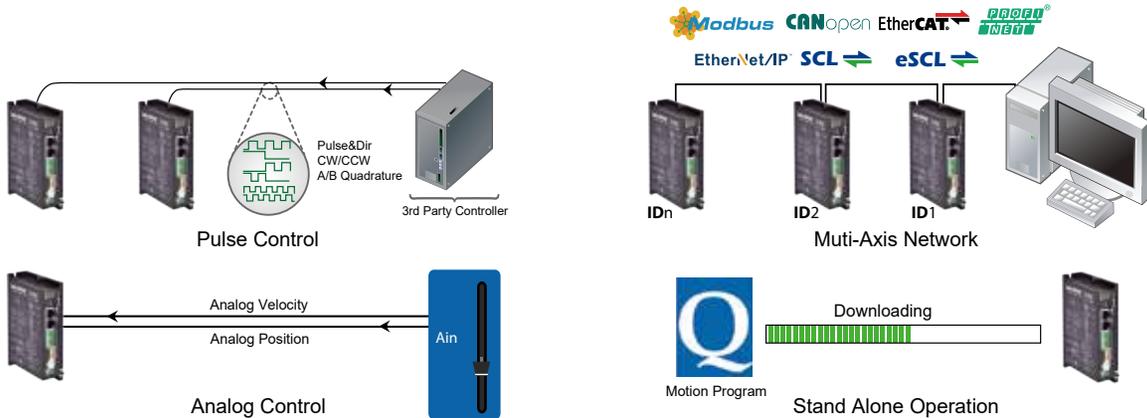


Features

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



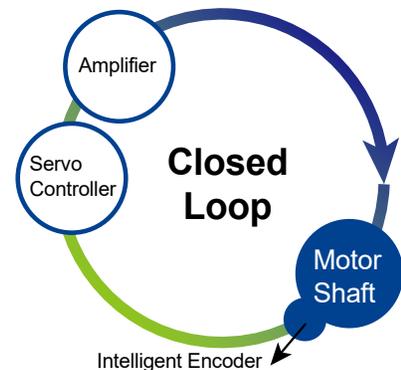
Closed-Loop Control

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.



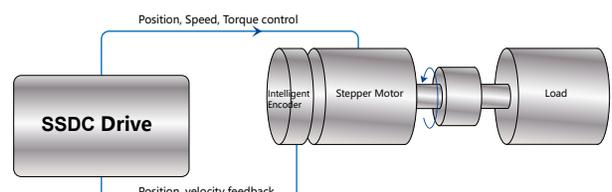
Closed-loop Step-Servo mode

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.

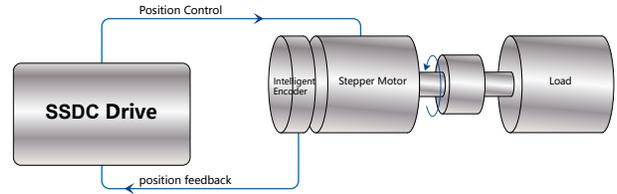
Highly robust servo control accommodates a wide range of inertial loads and friction load changes.



■ Closed-loop Step mode **NEW**

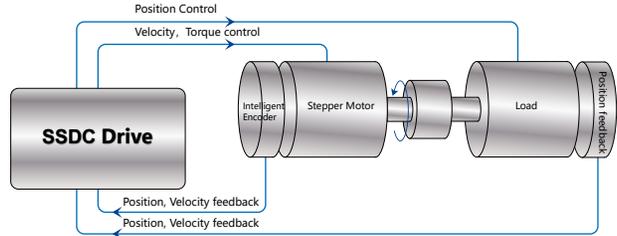
Position Closed-loop control. No tuning, no vibration, stall prevention.

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.

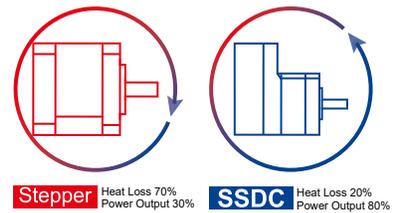


■ Safe & Convenient

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

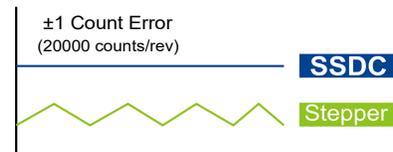
■ Low Heating/High Efficiency

- 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.



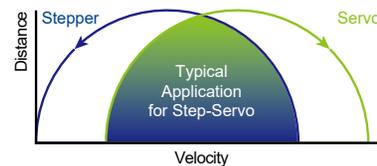
■ Smooth & Accurate

- 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.



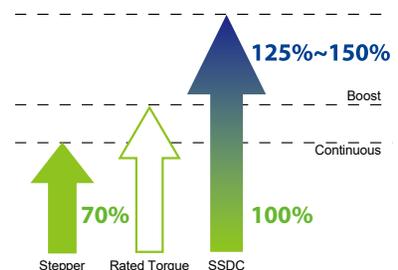
■ Fast Response

- 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.



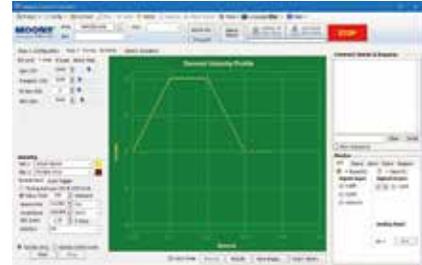
■ High Torque

- 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.



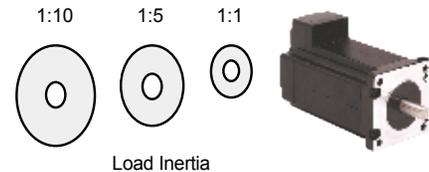
■ Motion Monitoring

- 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.



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

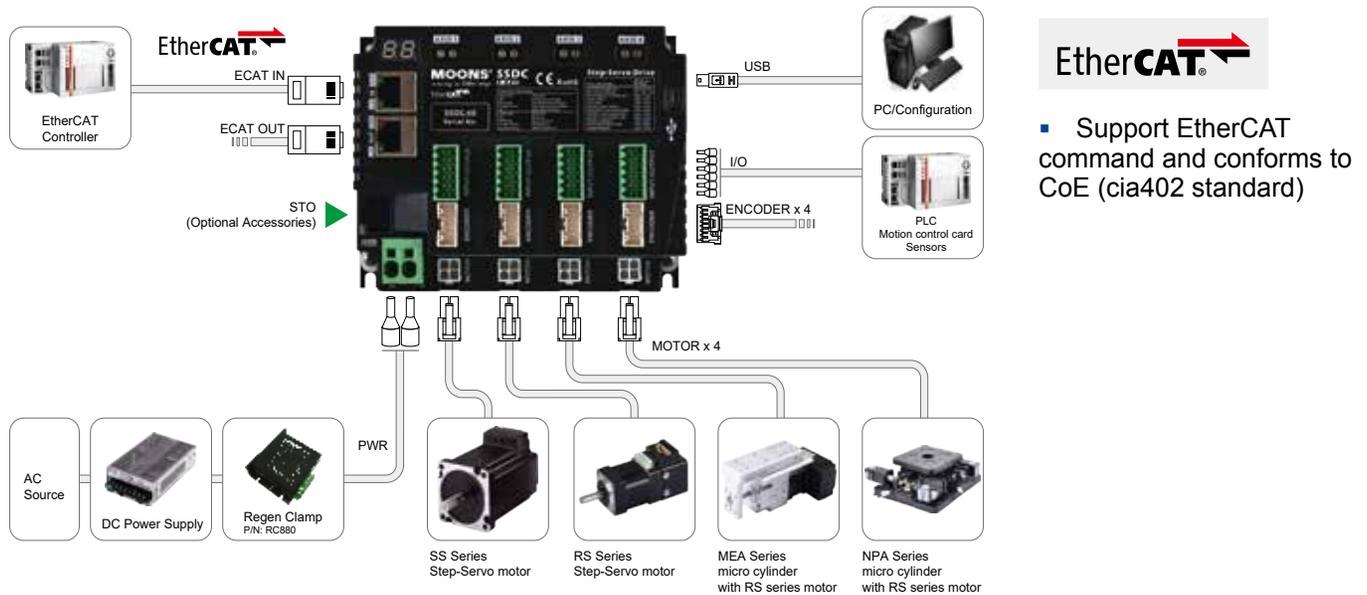
Software Features

- 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

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	Category	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

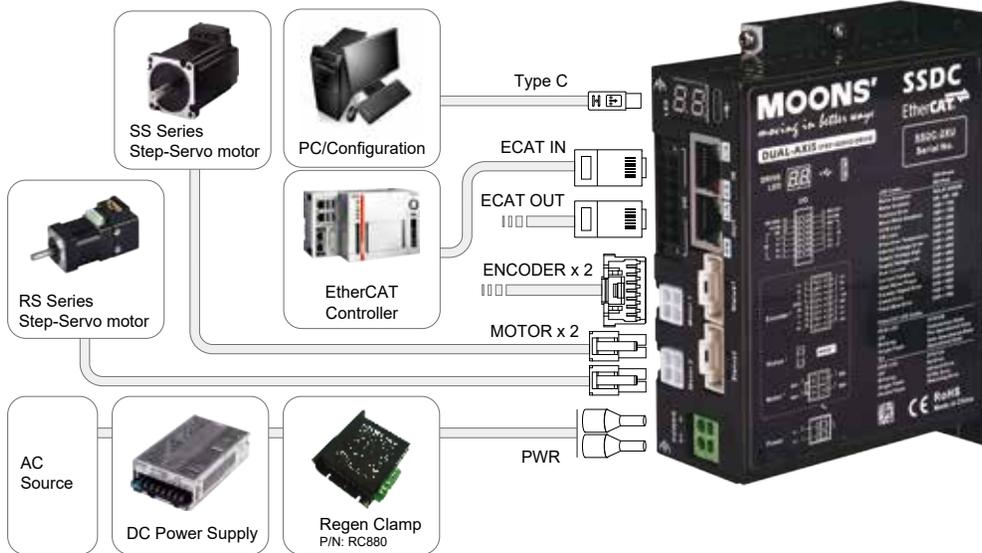
Note: The housing and crimps are included in the package box if don't order the extended cables

Optional Accessories*

Model	Qty	Category	Description
2136 Series	1	Cable	Extended motor cable(For SSDC drive and AM08RS motor)
2109 Series	1	Cable	Extended motor cable(For SSDC drive and AM11RS 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)
2163 Series	1	Cable	Extended encoder cable(For SSDC drive and AM08RS motor)
2164 Series	1	Cable	Extended encoder cable(For SSDC drive and AM11RS motor)
2165 Series	1	Cable	Extended encoder cable(For SSDC drive and AM17/23/24/34SS-N motor)
2159 Series	1	Cable	Extended encoder cable(For SSDC drive and AM17/23/24/34RS 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
2620-150	1	Cable	USB configuration cable (Connection with PC for configuration)
RC880	1	Regen Clamp	Regen Clamp

* Please refer to Page 34 for Optional Accessories

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



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

Standard Accessories (Included in the package)

Model	Qty	Category	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

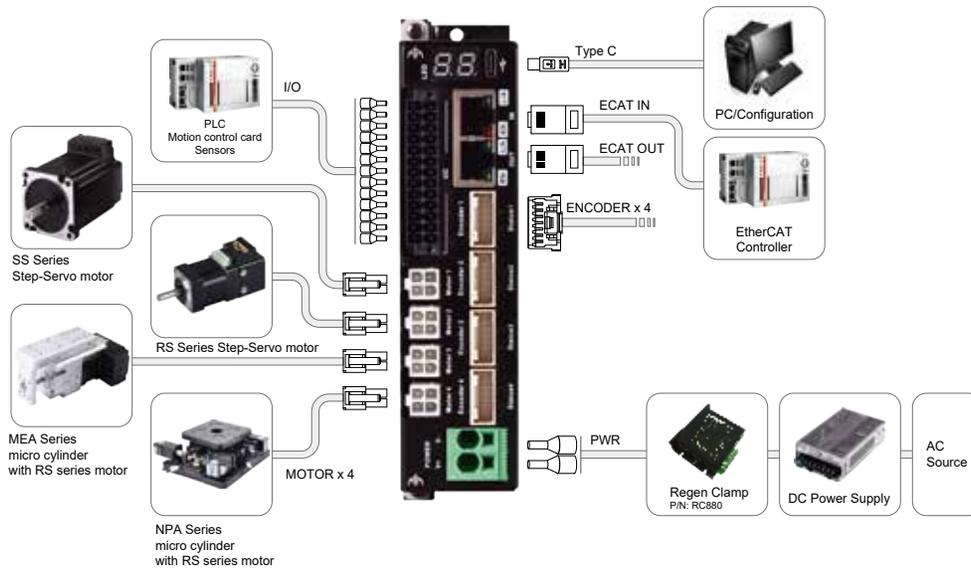
Note: The housing and crimps are included in the package box if don't order the extended cables.

Optional Accessories*

Model	Qty	Category	Description
2136 Series	1	Cable	Extended motor cable(For AM08RS motor)
2109 Series	1	Cable	Extended motor cable(For AM11RS 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)
2163 Series	1	Cable	Extended encoder cable(For AM08RS motor)
2164 Series	1	Cable	Extended encoder cable(For AM11RS motor)
2165 Series	1	Cable	Extended encoder cable(For AM17/23/24/34SS-N motor)
2159 Series	1	Cable	Extended encoder cable(For AM17/23/24/34RS motor)
1602 Series	1	Cable	Brake extension cable (For AM17/23/24/34RS motor)
2012 Series	1	Cable	USB configuration cable (Connection with PC for configuration)
2013 Series	1	Cable	Shielded network cable
RC880	1	Regen Clamp	Regen Clamp

* Please refer to Page 34 for Optional Accessories

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	Category	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

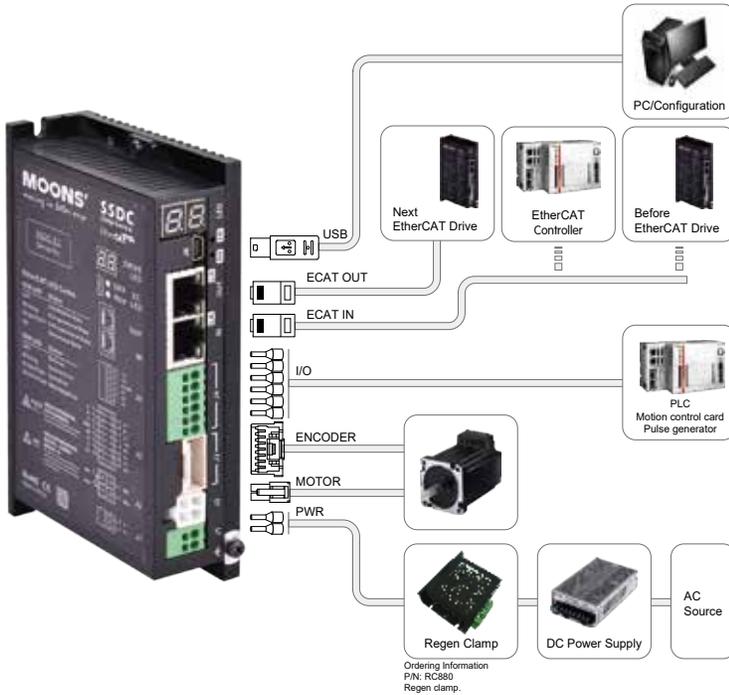
Note: The housing and crimps are included in the package box if don't order the extended cables.

Optional Accessories*

Model	Qty	Category	Description
2136 Series	1	Cable	Extended motor cable(For SSDC drive and AM08RS motor)
2109 Series	1	Cable	Extended motor cable(For SSDC drive and AM11RS 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)
2163 Series	1	Cable	Extended encoder cable(For SSDC drive and AM08RS motor)
2164 Series	1	Cable	Extended encoder cable(For SSDC drive and AM11RS motor)
2165 Series	1	Cable	Extended encoder cable(For SSDC drive and AM17/23/24/34SS-N motor)
2159- Series	1	Cable	Extended encoder cable(For SSDC drive and AM17/23/24/34RS motor)
1602 Series	1	Cable	Brake extension cable (For AM17/23/24/34RS motor)
2012 Series	1	Cable	USB configuration cable (Connection with PC for configuration)
2013 Series	1	Cable	Shielded network cable
RC880	1	Regen Clamp	Regen Clamp

* Please refer to Page 34 for Optional Accessories

SSDC-ECX-H, EtherCAT Communication type



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

Standard Accessories (Included in the package)

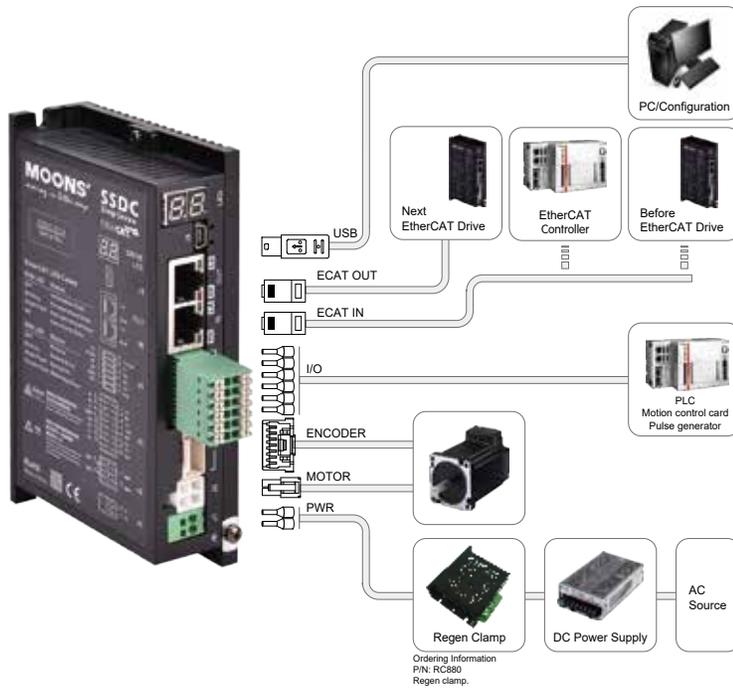
Model	Qty	Category	Description
39-01-3048	1	Housing	Motor connector housing (J2)
39-00-0038	5	Crimp	Motor connector crimp (J2)
501646-1600	1	Housing	Encoder connector housing (J3)
501648-1000	16	Crimp	Encoder connector crimp (J3)

Optional Accessories*

Model	Qty	Category	Description
2013 Series	1	Cable	Shielded network cable
2620-150	1	Cable	USB configuration cable (Connection with PC for configuration)
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)
2109 Series	1	Cable	Extended motor cable(For SSDC drive and AM11RS motor)
2164 Series	1	Cable	Extended encoder cable(For SSDC drive and AM11RS 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)
2165 Series	1	Cable	Extended encoder cable(For SSDC drive and AM17/23/24/34SS-N motor)
2159 Series	1	Cable	Extended encoder cable(For SSDC drive and AM17/23/24/34RS motor)
1602 Series	1	Cable	Brake extension cable (For AM17/23/24/34RS motor)
RC880	1	Regen Clamp	Regen Clamp

* Please refer to Page 34 for Optional Accessories

■ SSDC-ECX-J, EtherCAT Communication type



EtherCAT

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

Standard Accessories (Included in the package)

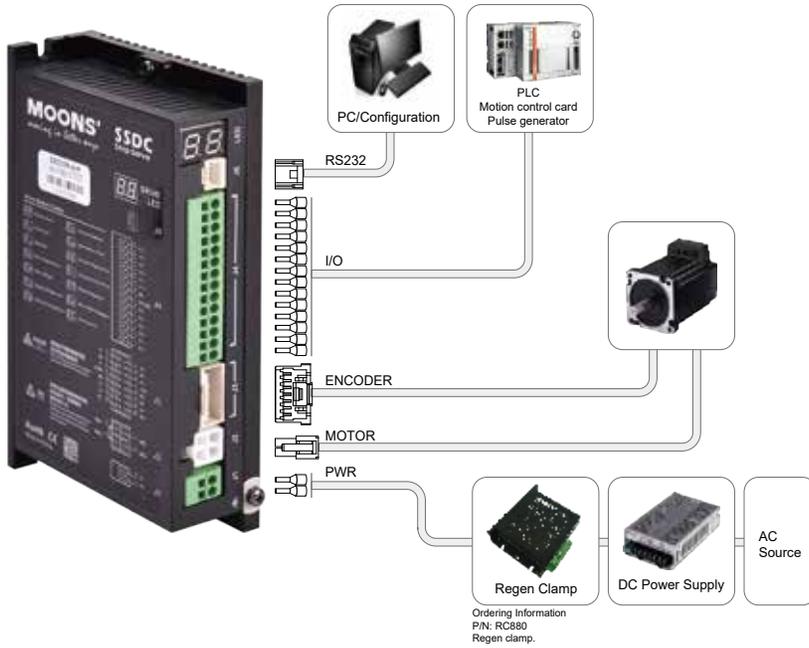
Model	Qty	Category	Description
39-01-3048	1	Housing	Motor connector housing (J2)
39-00-0038	5	Crimp	Motor connector crimp (J2)
501646-1600	1	Housing	Encoder connector housing (J3)
501648-1000	16	Crimp	Encoder connector crimp (J3)
15EDGKNHB-3.5-12P-14-07A(H)	1	Housing	I/O connector plug terminal

Optional Accessories*

Model	Qty	Category	Description
2013 Series	1	Cable	Shielded network cable
2620-150	1	Cable	USB configuration cable (Connection with PC for configuration)
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)
2109 Series	1	Cable	Extended motor cable(For SSDC drive and AM11RS motor)
2164 Series	1	Cable	Extended encoder cable(For SSDC drive and AM11RS 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)
2165 Series	1	Cable	Extended encoder cable(For SSDC drive and AM17/23/24/34SS-N motor)
2159 Series	1	Cable	Extended encoder cable(For SSDC drive and AM17/23/24/34RS motor)
1602 Series	1	Cable	Brake extension cable (For AM17/23/24/34RS motor)
RC880	1	Regen Clamp	Regen Clamp

* Please refer to Page 34 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)

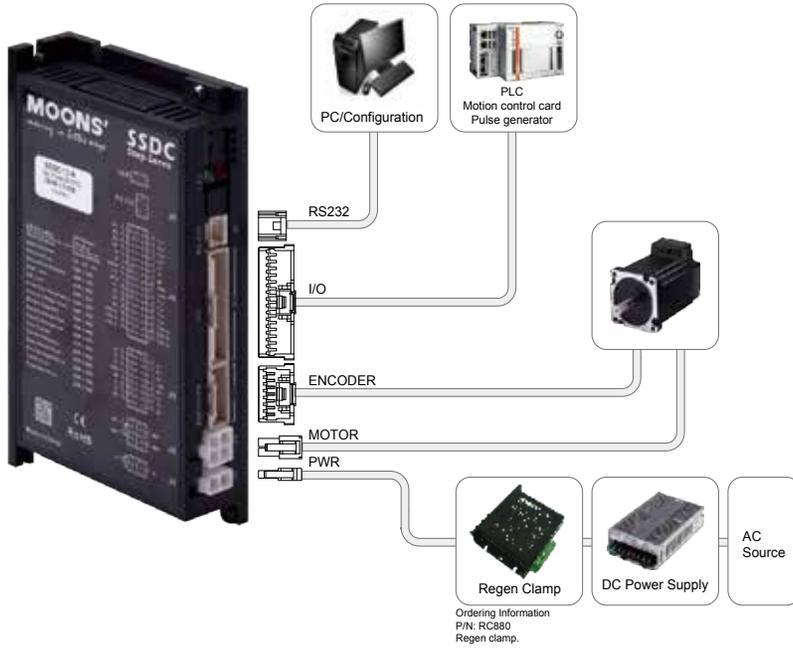
Model	Qty	Category	Description
2101-150	1	Cable	RS-232 configuration cable
39-01-3048	1	Housing	Motor connector housing (J2)
39-00-0038	5	Crimp	Motor connector crimp (J2)
501646-1600	1	Housing	Encoder connector housing (J3)
501648-1000	16	Crimp	Encoder connector crimp (J3)

Optional Accessories*

Model	Qty	Category	Description
MS-USB-RS232-01	1	Cable	USB-RS232 Converter
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)
2109 Series	1	Cable	Extended motor cable(For SSDC drive and AM11RS motor)
2164 Series	1	Cable	Extended encoder cable(For SSDC drive and AM11RS 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)
2165 Series	1	Cable	Extended encoder cable(For SSDC drive and AM17/23/24/34SS-N motor)
2159 Series	1	Cable	Extended encoder cable(For SSDC drive and AM17/23/24/34RS motor)
1602 Series	1	Cable	Brake extension cable (For AM17/23/24/34RS motor)
RC880	1	Regen Clamp	Regen Clamp

* Please refer to Page 34 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)

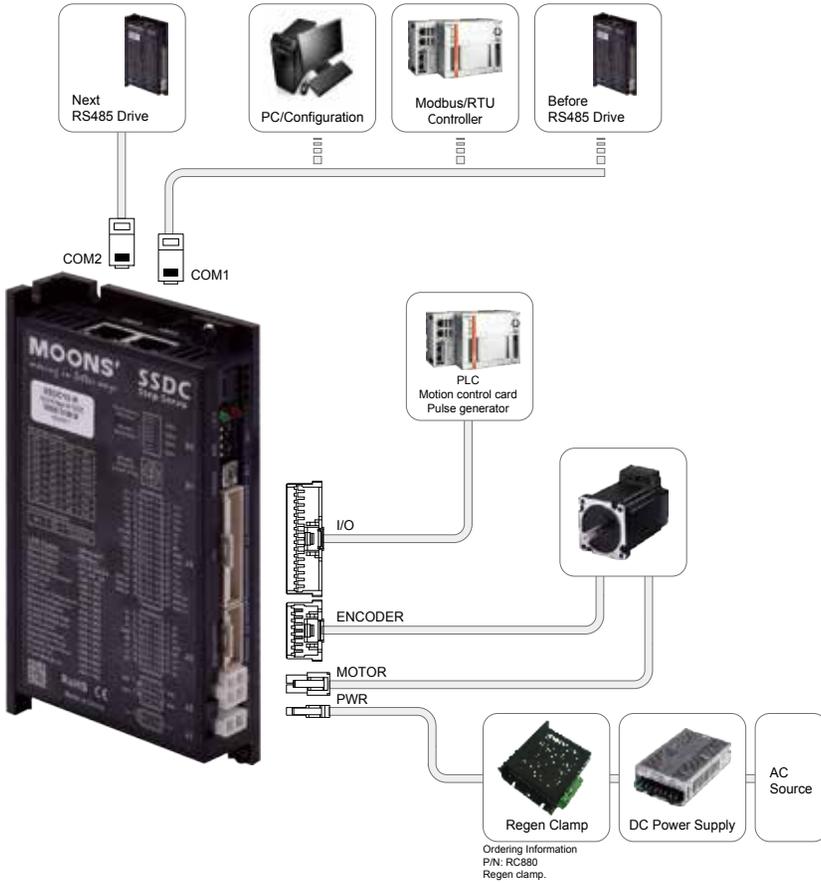
Model	Qty	Catagory	Description
1103-200	1	Cable	2m Power supply cable
2101-150	1	Cable	RS-232 configuration cable
39-01-3048	1	Housing	Motor connector housing (J2)
39-00-0038	5	Crimp	Motor connector crimp (J2)
501646-1600	1	Housing	Encoder connector housing (J3)
501646-3200	1	Housing	I/O connector housing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

Optional Accessories*

Model	Qty	Catagory	Description
1117 Series	1	Cable	Extended I/O cable
MS-USB-RS232-01	1	Cable	USB-RS232 Converter
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)
2109 Series	1	Cable	Extended motor cable(For SSDC drive and AM11RS motor)
2164 Series	1	Cable	Extended encoder cable(For SSDC drive and AM11RS 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)
2165 Series	1	Cable	Extended encoder cable(For SSDC drive and AM17/23/24/34SS-N motor)
2159 Series	1	Cable	Extended encoder cable(For SSDC drive and AM17/23/24/34RS motor)
1602 Series	1	Cable	Brake extension cable (For AM17/23/24/34RS motor)
RC880	1	Regen Clamp	Regen Clamp

* Please refer to Page 34 for Optional Accessories

SSDC-R, RS485 Communication type



- 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)

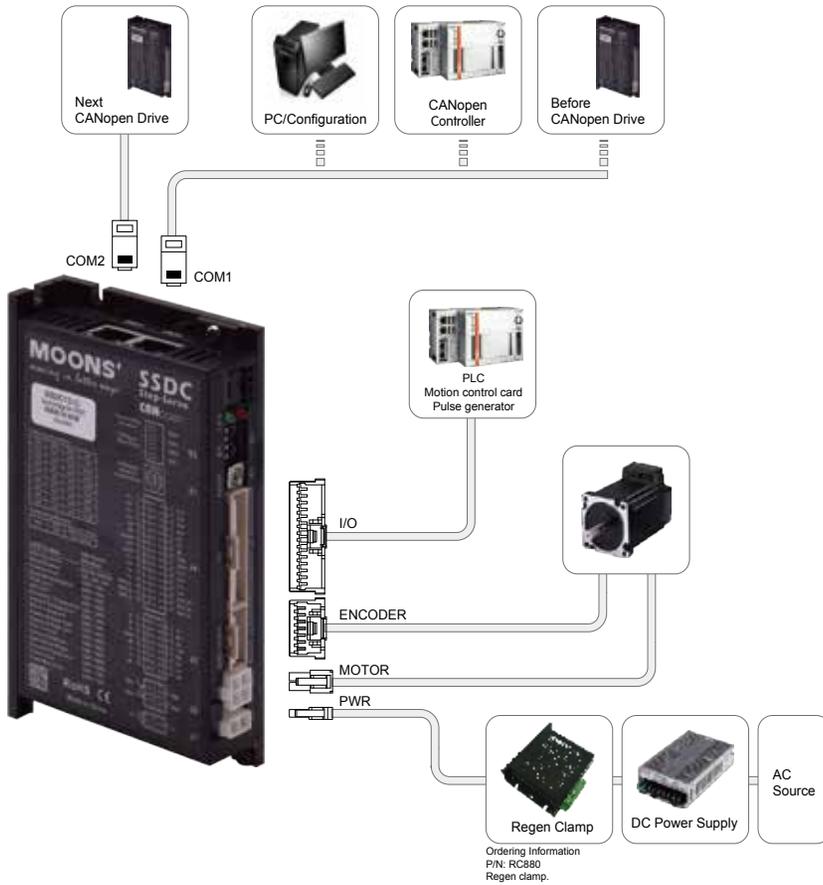
Model	Qty	Category	Description
1103-200	1	Cable	2m Power supply cable
2012-030	1	Cable	0.3m network cable
39-01-3048	1	Housing	Motor connector housing (J2)
39-00-0038	5	Crimp	Motor connector crimp (J2)
501646-1600	1	Housing	Encoder connector housing (J3)
501646-3200	1	Housing	I/O connector housing (J4)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

Optional Accessories*

Model	Qty	Category	Description
1117 Series	1	Cable	Extended I/O cable
MS-USB-RS485-01	1	Cable	USB-RS485 Converter
2013 Series	1	Cable	Shielded network cable
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)
2109 Series	1	Cable	Extended motor cable(For SSDC drive and AM11RS motor)
2164 Series	1	Cable	Extended encoder cable(For SSDC drive and AM11RS 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)
2165 Series	1	Cable	Extended encoder cable(For SSDC drive and AM17/23/24/34SS-N motor)
2159 Series	1	Cable	Extended encoder cable(For SSDC drive and AM17/23/24/34RS motor)
1602 Series	1	Cable	Brake extension cable (For AM17/23/24/34RS motor)
RC880	1	Regen Clamp	Regen Clamp

* Please refer to Page 34 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)

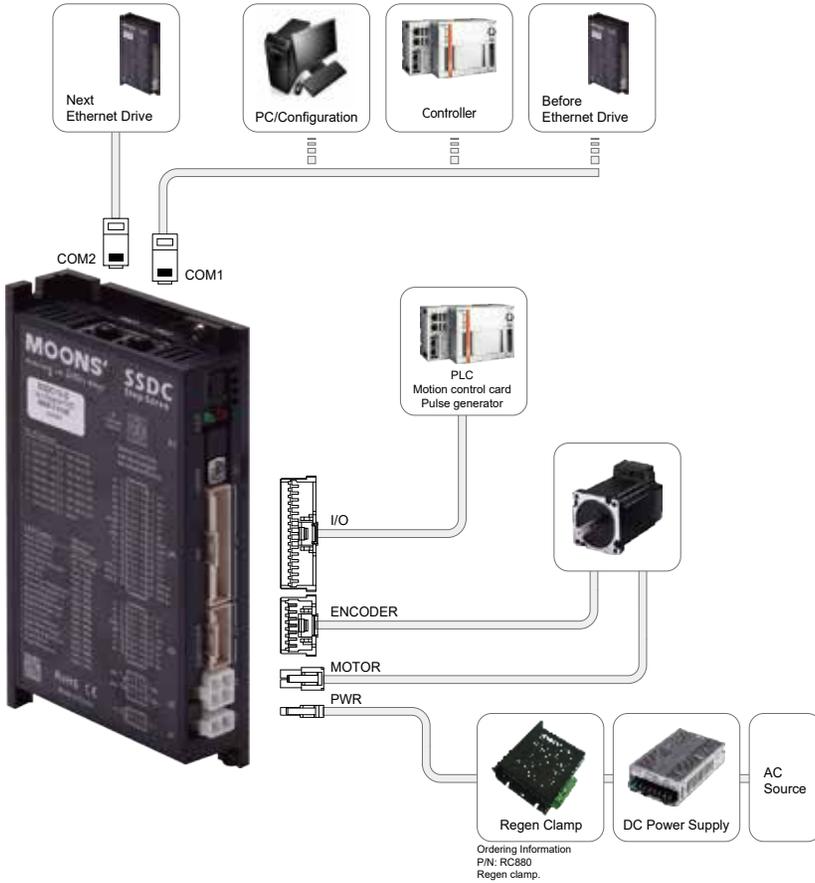
Model	Qty	Category	Description
1103-200	1	Cable	2m Power supply cable
2012-030	1	Cable	0.3m network cable
39-01-3048	1	Housing	Motor connector housing (J2)
39-00-0038	5	Crimp	Motor connector crimp (J2)
501646-1600	1	Housing	Encoder connector housing (J3)
501646-3200	1	Housing	I/O connector housing (J4)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

Optional Accessories*

Model	Qty	Category	Description
1117 Series	1	Cable	Extended I/O cable
2013 Series	1	Cable	Shielded network cable
2019-150	1	Cable	SSDC-C configuration line
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)
2109 Series	1	Cable	Extended motor cable(For SSDC drive and AM11RS motor)
2164 Series	1	Cable	Extended encoder cable(For SSDC drive and AM11RS 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)
2165 Series	1	Cable	Extended encoder cable(For SSDC drive and AM17/23/24/34SS-N motor)
2159 Series	1	Cable	Extended encoder cable(For SSDC drive and AM17/23/24/34RS motor)
1602 Series	1	Cable	Brake extension cable (For AM17/23/24/34RS motor)
RC880	1	Regen Clamp	Regen Clamp

* Please refer to Page 34 for Optional Accessories

SSDC-D/IP/PN



EtherNet/IP™

PROFI
NET®

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

Standard Accessories (Included in the package)

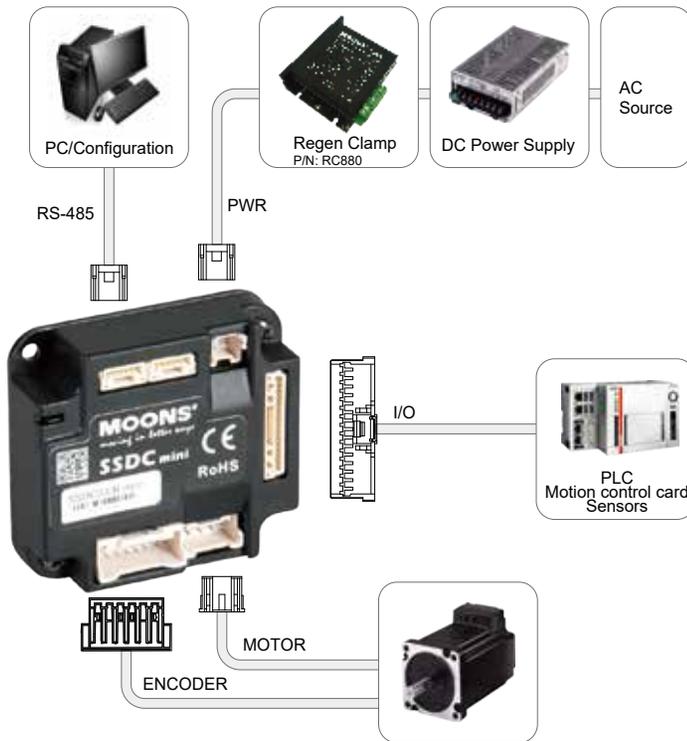
Model	Qty	Category	Description
1103-200	1	Cable	2m Power supply cable
2012-030	1	Cable	0.3m network cable
39-01-3048	1	Housing	Motor connector housing (J2)
39-00-0038	5	Crimp	Motor connector crimp (J2)
501646-1600	1	Housing	Encoder connector housing (J3)
501646-3200	1	Housing	I/O connector housing (J4)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

Optional Accessories*

Model	Qty	Category	Description
1117 Series	1	Cable	Extended I/O cable
2013 Series	1	Cable	Shielded network cable
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)
2109 Series	1	Cable	Extended motor cable(For SSDC drive and AM11RS motor)
2164 Series	1	Cable	Extended encoder cable(For SSDC drive and AM11RS 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)
2165 Series	1	Cable	Extended encoder cable(For SSDC drive and AM17/23/24/34SS-N motor)
2159 Series	1	Cable	Extended encoder cable(For SSDC drive and AM17/23/24/34RS motor)
1602 Series	1	Cable	Brake extension cable (For AM17/23/24/34RS motor)
RC880	1	Regen Clamp	Regen Clamp

* Please refer to Page 34 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)

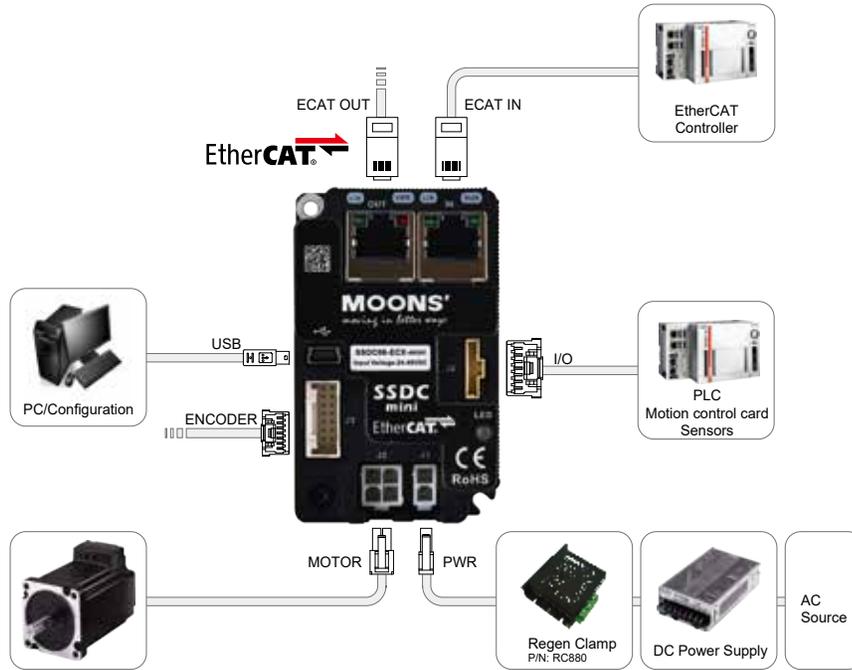
Model	Qty	Category	Description
1148-0100	1	Cable	1m Power supply cable
1147-0100	1	Cable	1m I/O Cable
2144-0100	1	Cable	RS-422 configuration cable
SXA-001T-P0.6	5	Crimp	Motor connector crimp
XAP-04V-1	1	Housing	Motor connector housing
501648-1000	20	Crimp	Encoder connector crimp
501646-1600	1	Housing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

Optional Accessories*

Model	Qty	Category	Description
1148 Series	1	Cable	Extended power cable
1147 Series	1	Cable	Extended I/O cable
2144 Series	1	Cable	Extended communication cable
2141 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)
2142 Series	1	Cable	Extended motor cable(For SSDC drive and AM11RS motor)
2164 Series	1	Cable	Extended encoder cable(For SSDC drive and AM11RS motor)
2143 Series	1	Cable	Extended motor cable(For SSDC drive and AM17RS/SS motor)
2165 Series	1	Cable	Extended encoder cable(For SSDC drive and AM17/23/24/34SS-N motor)
2159 Series	1	Cable	Extended encoder cable(For SSDC drive and AM17/23/24/34RS motor)
1602 Series	1	Cable	Brake extension cable (For AM17/23/24/34RS motor)

* Please refer to Page 34 for Optional Accessories

SSDC06-ECX-mini, EtherCAT Communication type



EtherCAT

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

Standard Accessories (Included in the package)

Model	Qty	Category	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*

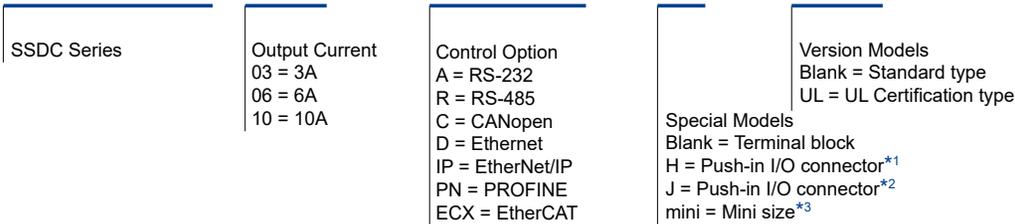
Model	Qty	Category	Description
2109 Series	1	Cable	Extended motor cable(For SSDC drive and AM11RS motor)
2027 Series	1	Cable	Extended motor cable(For AM17/23/24SS-N, AM17/23/24RS motor)
2028 Series	1	Cable	Extended motor cable(For AM34SS-N, AM34RS motor)
2136 Series	1	Cable	Extended motor cable(For SSDC drive and AM08RS motor)
2163 Series	1	Cable	Extended encoder cable(For SSDC drive and AM08RS motor)
2109 Series	1	Cable	Extended motor cable(For SSDC drive and AM11RS motor)
2164 Series	1	Cable	Extended encoder cable(For SSDC drive and AM11RS motor)
2165 Series	1	Cable	Extended encoder cable(For SSDC drive and AM17/23/24/34SS-N motor)
2159 Series	1	Cable	Extended encoder cable(For SSDC drive and AM17/23/24/34RS 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
2620-150	1	Cable	USB configuration cable (Connection with PC for configuration)
RC880	1	Regen Clamp	Regen Clamp

* Please refer to Page 34 for Optional Accessories

■ Drive Numbering System

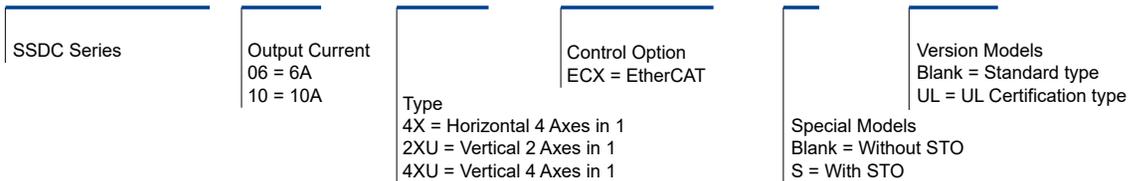
□ Standard Series

SSDC 03 - ECX - H - FC



□ Multi-Axis Series

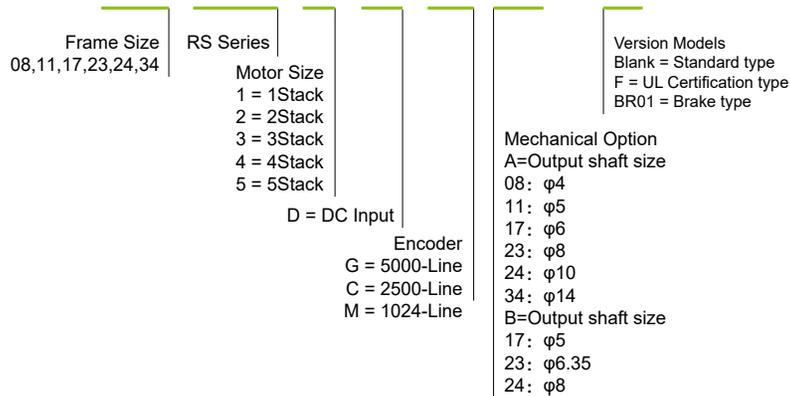
SSDC 06 - 4X - ECX - S - FC



■ Motor Numbering System

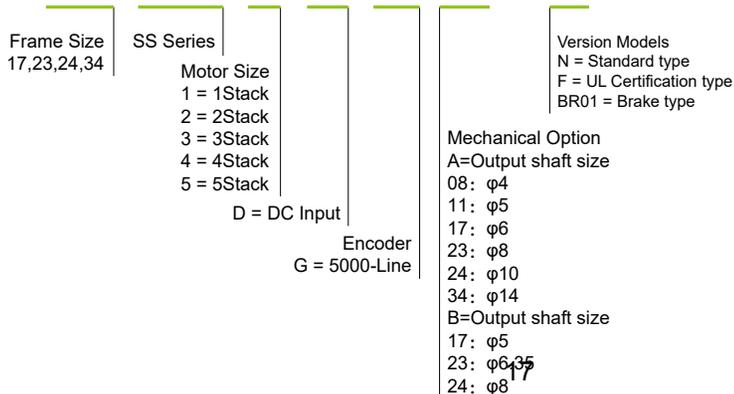
□ RS Series Step-Servo Motor

AM 17 RS 3 D G A - F



□ SS Series Step-Servo Motor

AM 17 SS 3 D G A - F



Ordering Information

Step-Servo Driver

Model	Current	Voltage	Multi-functional Capability									
			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.



■ Step-Servo Motor

RS series 5000 line encoder stepper servo motor

Standard type

Model	Drive P/N	Frame Size	Encoder Resolution
		mm	counts/rev
AM17RS1DGA	SSDC03 or SSDC06	42	20000
AM17RS1DGB			
AM17RS2DGA			
AM17RS2DGB			
AM17RS3DGA			
AM17RS3DGB			
AM17RS4DGA			
AM17RS4DGB			
AM23RS2DGA	SSDC06 or SSDC10	56	
AM23RS2DGB			
AM23RS3DGA			
AM23RS3DGB			
AM23RS4DGA			
AM24RS3DGA		60	
AM24RS3DGB			
AM34RS1DGA	SSDC10	80	
AM34RS3DGA			
AM34RS5DGA			

Standard type with brake

Model	Drive P/N	Frame Size	Encoder Resolution
		mm	counts/rev
AM17RS1DGA-BR01	SSDC03 or SSDC06	42	20000
AM17RS1DGB-BR01			
AM17RS2DGA-BR01			
AM17RS2DGB-BR01			
AM17RS3DGA-BR01			
AM17RS3DGB-BR01			
AM17RS4DGA-BR01			
AM17RS4DGB-BR01			
AM23RS2DGA-BR01	SSDC06 or SSDC10	56	
AM23RS2DGB-BR01			
AM23RS3DGA-BR01			
AM23RS3DGB-BR01			
AM23RS4DGA-BR01			
AM24RS3DGA-BR01		60	
AM24RS3DGB-BR01			
AM34RS1DGA-BR01	SSDC10	80	
AM34RS3DGA -BR01			
AM34RS5DGA-BR01			

RS series 2500 line encoder stepper servo motor

Standard type

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

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			
AM11RS1DMA		28	
AM11RS2DMA			
AM11RS3DMA			
★ AM17RS1DMA		42	
★ AM17RS1DMB			
★ AM17RS2DMA			
★ AM17RS2DMB			
★ AM17RS3DMA			
★ AM17RS3DMB			
★ AM17RS4DMA			
★ AM17RS4DMB			

Model	Drive P/N	Frame Size	Encoder Resolution
		mm	counts/rev
★ AM23RS2DMA	SSDC06 or SSDC10	60	4096
★ AM23RS2DMB			
★ AM23RS3DMA			
★ AM23RS3DMB			
★ AM23RS4DMA			
★ AM24RS3DMA			
★ AM24RS3DMB	SSDC10	80	
★ AM34RS1DMA			
★ AM34RS3DMA			
★ AM34RS5DMA			

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			
★ AM23SS2DGB-N			
★ AM23SS3DGA-N			
★ AM23SS3DGB-N			
★ AM23SS4DGA-N	60		
★ AM24SS3DGA-N			
★ 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
AM17SS1DGA-N-BR01	SSDC03 or SSDC06	42	20000
AM17SS1DGB-N-BR01			
AM17SS2DGA-N-BR01			
AM17SS2DGB-N-BR01			
AM17SS3DGA-N-BR01			
AM17SS3DGB-N-BR01			
AM17SS4DGA-N-BR01			
AM17SS4DGB-N-BR01			
AM23SS2DGA-N-BR01			
AM23SS2DGB-N-BR01			
AM23SS3DGA-N-BR01			
AM23SS3DGB-N-BR01			
AM23SS4DGA-N-BR01	60		
AM24SS3DGA-N-BR01			
AM24SS3DGB-N-BR01			
AM34SS1DGA-N-BR01	SSDC10	86	
AM34SS3DGA-N-BR01			
AM34SS5DGA-N-BR01			



★：提供符合UL认证版相同规格电机，具体Model，请查阅附录表格。

■ 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)	√	√	√	√	√	√		

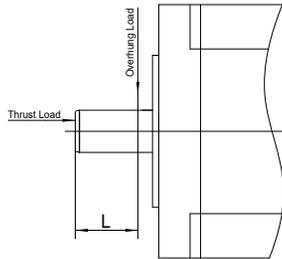
Recommended Motors

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

NOTE:

□: SS or RS, refer to motor part numbering system.

※: The actual weight of the product may vary by approximately 10%.



Standard Accessories

□ AM08RS Motor Standard Accessories (Included in the package)

Model	Qty	Category	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

□ AM11RS Motor Standard Accessories (Included in the package)

Model	Qty	Category	Description
51065-0600	1	Housing	Motor connector housing
50212-8000	6	Crimp	Motor connector crimp
501646-1200	1	Housing	Encoder connector housing
501648-1000	15	Crimp	Encoder connector crimp

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

Model	Qty	Category	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)

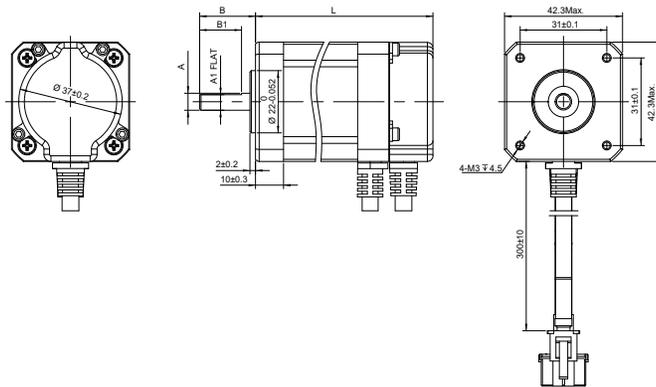
Model	Qty	Category	Description
39-01-3049	1	Housing	Motor connector housing
39-00-0040	5	Crimp	Motor connector crimp
1-1903130-0	1	Housing	Encoder connector housing
190-3120-1	15	Crimp	Encoder connector crimp

Motor Dimensions (Unit:mm)

■ RS series 5000 line encoder stepper servo motor

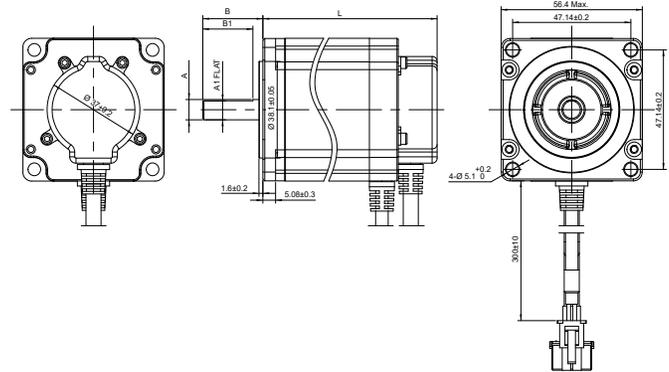
□ AM17 Series

Model	A	A1	B	B1	L
AM17RS1DGA	∅ 6	5.5	20	15	53.45
AM17RS1DGB	∅ 5	4.5	24	15	53.45
AM17RS2DGA	∅ 6	5.5	20	15	58.95
AM17RS2DGB	∅ 5	4.5	24	15	58.95
AM17RS3DGA	∅ 6	5.5	20	15	67.45
AM17RS3DGB	∅ 5	4.5	24	15	67.45
AM17RS4DGA	∅ 6	5.5	20	15	81.95
AM17RS4DGB	∅ 5	4.5	24	15	81.95



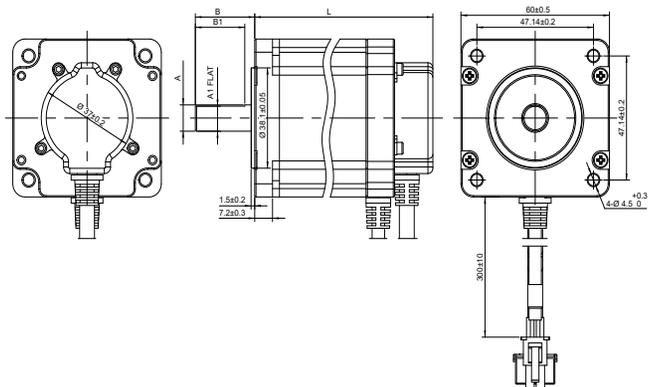
□ AM23 Series

Model	A	A1	B	B1	L
AM23RS2DGA	∅ 8	7.5	24	20	67
AM23RS2DGB	∅ 6.35	5.85	20	15	67
AM23RS3DGA	∅ 8	7.5	24	20	89
AM23RS3DGB	∅ 6.35	5.85	20	15	89
AM23RS4DGA	∅ 8	7.5	24	20	92



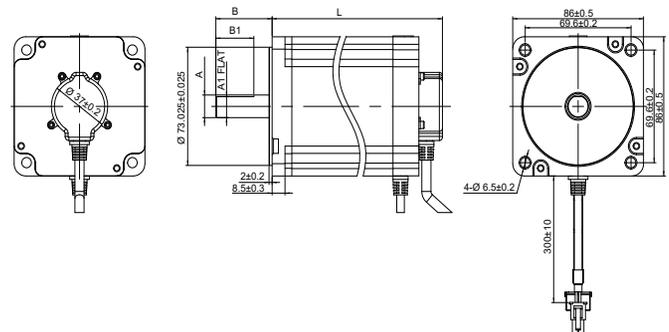
□ AM24 Series

Model	A	A1	B	B1	L
AM24RS3DGA	∅ 10	9.5	24	20	102
AM24RS3DGB	∅ 8	7.5	20.6	15	102



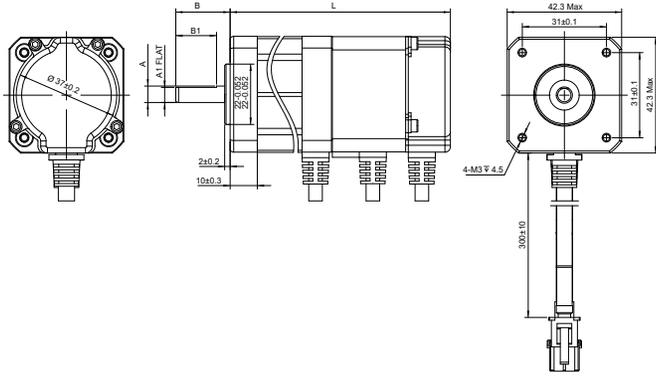
□ AM34 Series

Model	A	A1	B	B1	L
AM34RS1DGA	∅ 14	13	37	25	77.5
AM34RS3DGA	∅ 14	13	37	25	105.5
AM34RS5DGA	∅ 14	13	37	25	133.5



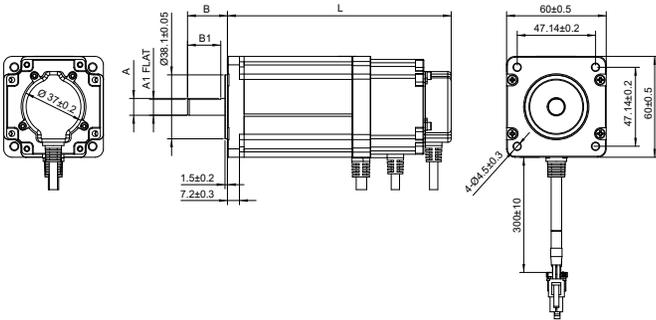
□ AM17 Series (with brake)

Model	A	A1	B	B1	L
AM17RS1DGA-BR01	∅ 6	5.5	20	15	81.15
AM17RS1DGB-BR01	∅ 5	4.5	24	15	81.15
AM17RS2DGA-BR01	∅ 6	5.5	20	15	86.65
AM17RS2DGB-BR01	∅ 5	4.5	24	15	86.65
AM17RS3DGA-BR01	∅ 6	5.5	20	15	95.15
AM17RS3DGB-BR01	∅ 5	4.5	24	15	95.15
AM17RS4DGA-BR01	∅ 6	5.5	20	15	109.65
AM17RS4DGB-BR01	∅ 5	4.5	24	15	109.65



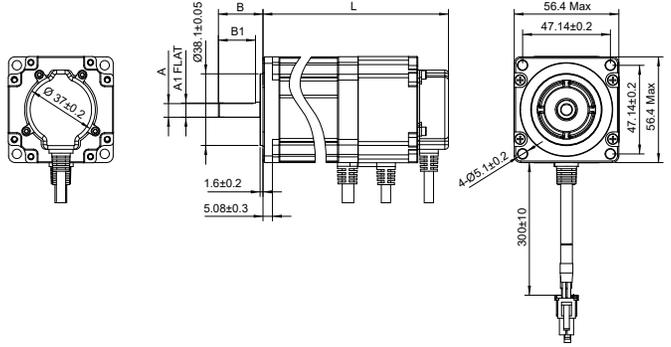
□ AM24 Series (with brake)

Model	A	A1	B	B1	L
AM24RS3DGA-BR01	∅ 10	9.5	24	20	134.7
AM24RS3DGB-BR01	∅ 8	7.5	20	15	134.7



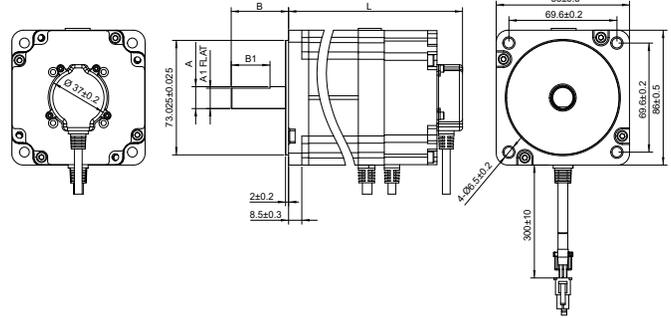
□ AM23 Series (with brake)

Model	A	A1	B	B1	L
AM23RS2DGA-BR01	∅ 8	7.5	24	20	99.7
AM23RS2DGB-BR01	∅ 6.35	5.85	20	15	99.7
AM23RS3DGA-BR01	∅ 8	7.5	24	20	122
AM23RS3DGB-BR01	∅ 6.35	5.85	20	15	122
AM23RS4DGA-BR01	∅ 8	7.5	24	20	125



□ AM34 Series (with brake)

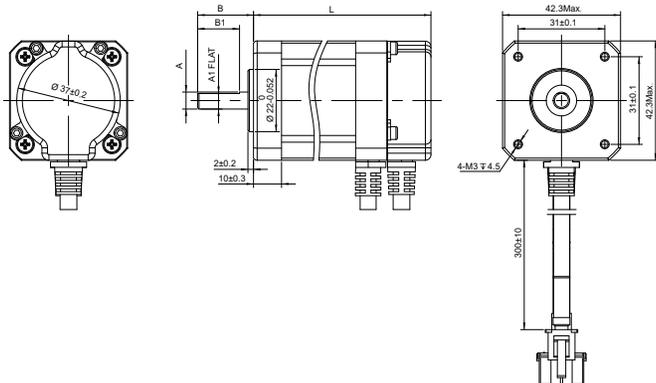
Model	A	A1	B	B1	L
AM34RS1DGA-BR01	∅ 14	13	37	25	112.2
AM34RS3DGA-BR01	∅ 14	13	37	25	140.2
AM34RS5DGA-BR01	∅ 14	13	37	25	168.2



■ RS series 2500 line encoder stepper servo motor

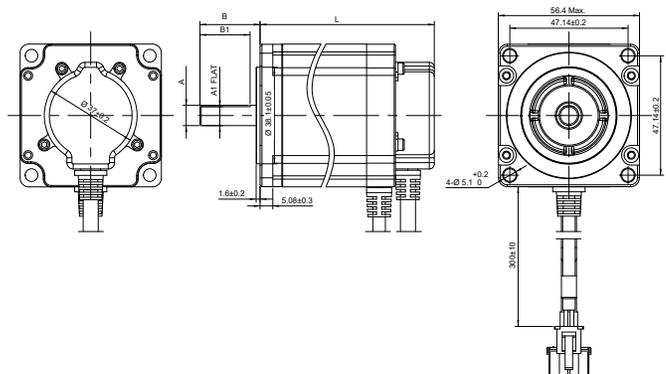
□ AM17 Series

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



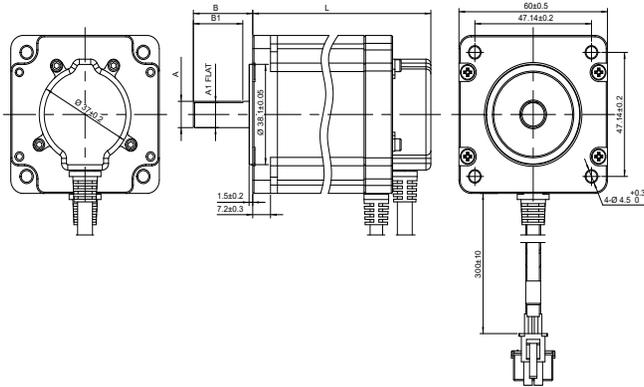
□ AM23 Series

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



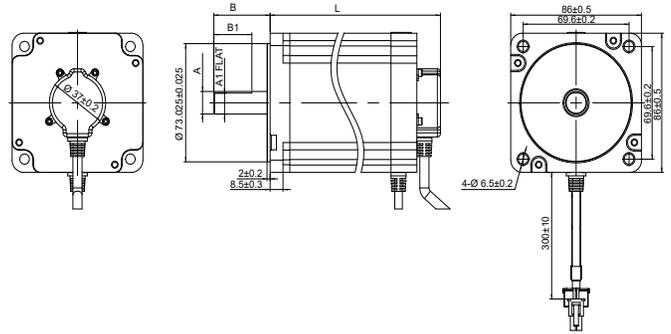
AM24 Series

Model	A	A1	B	B1	L
AM24RS3DCA	∅ 10	9.5	24	20	102
AM24RS3DCB	∅ 8	7.5	20.6	15	102



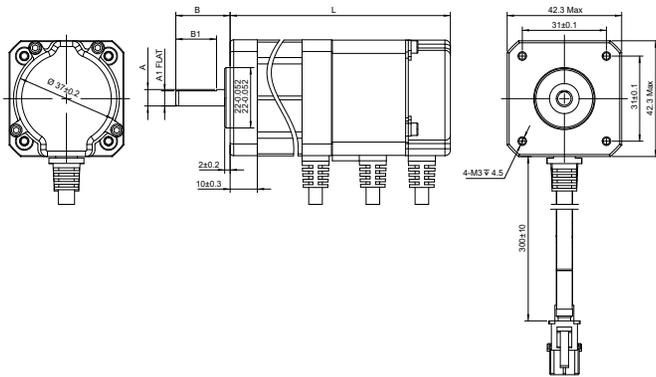
AM34 Series

Model	A	A1	B	B1	L
AM34RS1DCA	∅ 14	13	37	25	77.5
AM34RS3DCA	∅ 14	13	37	25	105.5
AM34RS5DCA	∅ 14	13	37	25	133.5



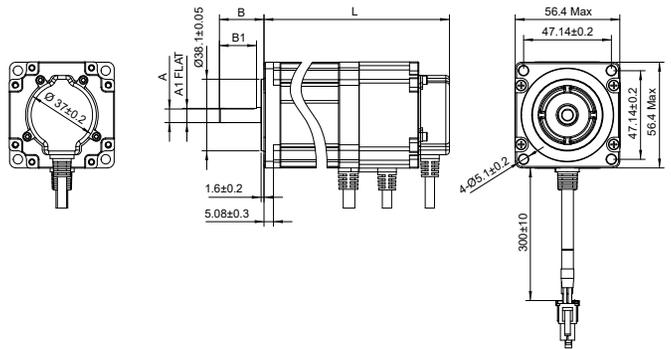
AM17 Series (with brake)

Model	A	A1	B	B1	L
AM17RS1DCA-BR01	∅ 6	5.5	20	15	81.15
AM17RS1DCB-BR01	∅ 5	4.5	24	15	81.15
AM17RS2DCA-BR01	∅ 6	5.5	20	15	86.65
AM17RS2DCB-BR01	∅ 5	4.5	24	15	86.65
AM17RS3DCA-BR01	∅ 6	5.5	20	15	95.15
AM17RS3DCB-BR01	∅ 5	4.5	24	15	95.15
AM17RS4DCA-BR01	∅ 6	5.5	20	15	109.65
AM17RS4DCB-BR01	∅ 5	4.5	24	15	109.65



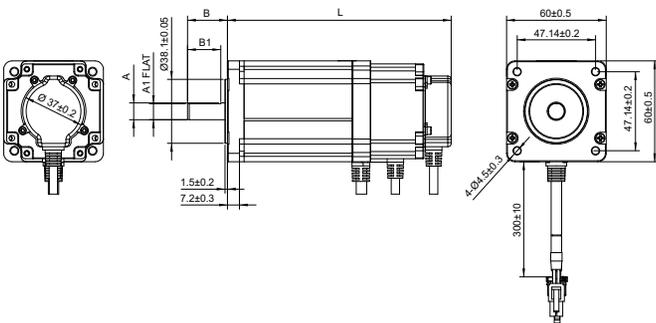
AM23 Series (with brake)

Model	A	A1	B	B1	L
AM23RS2DCA-BR01	∅ 8	7.5	24	20	99.7
AM23RS2DCB-BR01	∅ 6.35	5.85	20	15	99.7
AM23RS3DCA-BR01	∅ 8	7.5	24	20	122
AM23RS3DCB-BR01	∅ 6.35	5.85	20	15	122
AM23RS4DCA-BR01	∅ 8	7.5	24	20	125



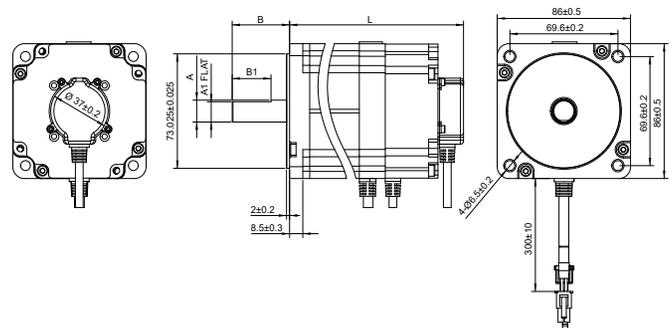
AM24 Series (with brake)

Model	A	A1	B	B1	L
AM24RS3DCA-BR01	∅ 10	9.5	24	20	134.7
AM24RS3DCB-BR01	∅ 8	7.5	20	15	134.7



AM34 Series (with brake)

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



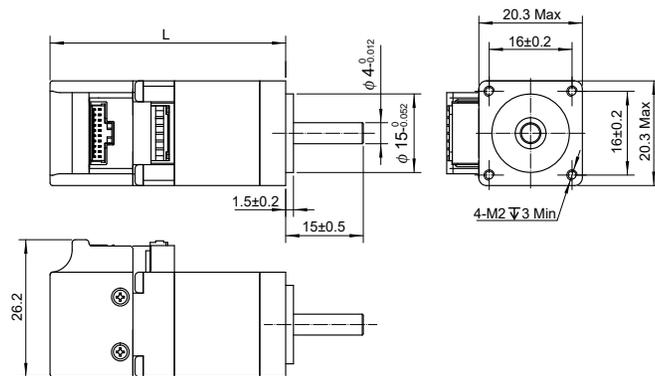
□ Brake Specification

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

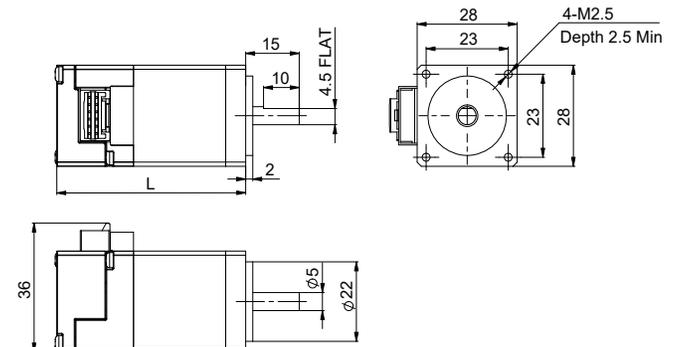
□ AM08 Series

Model	L
AM08RS1DMA	45.5
AM08RS2DMA	55.5
AM08RS3DMA	62.5



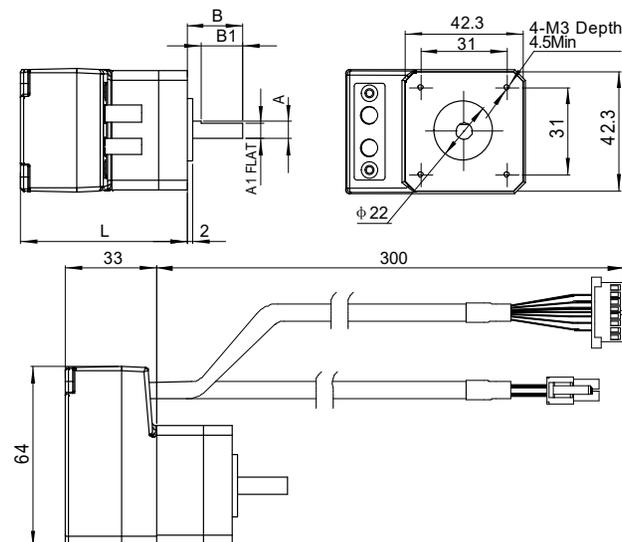
□ AM11 Series

Model	L
AM11RS1DMA	43.8
AM11RS2DMA	52.9
AM11RS3DMA	64.1



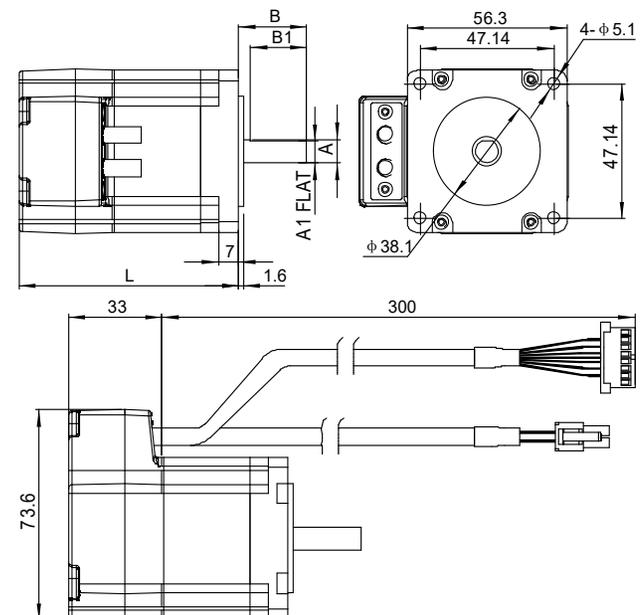
□ AM17 Series

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



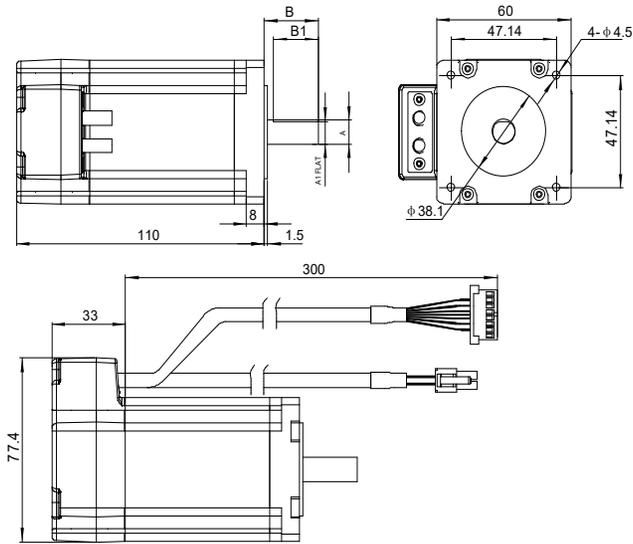
□ AM23 Series

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



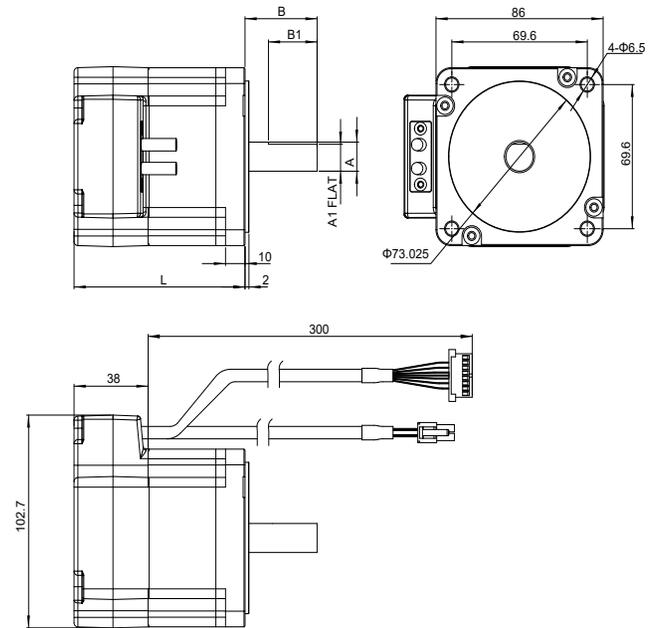
AM24 Series

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

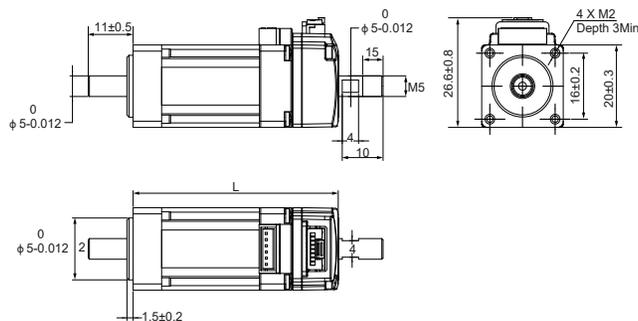
Description	Model	The consumption of a single machine	Vendor
Power cable housing	39-01-3048	1	Molex
Power cable crimp	39-00-0038	4	Molex
Encoder cable housing	1-1827864-6	1	Tyco
Encoder cable crimp	1827569-2	11	Tyco

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

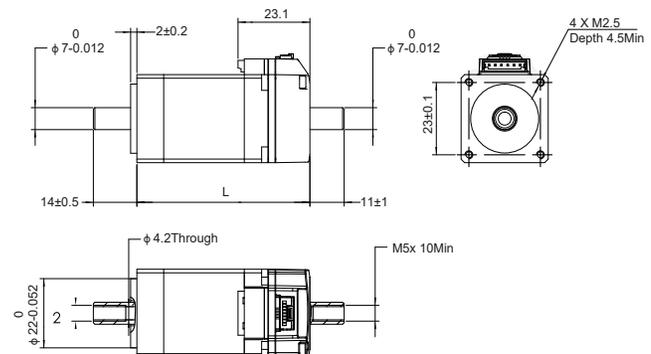
AM08 Series Hollow Shaft Type Motor

Model	L
AM08SS2DHA-M01	50.3



AM11 Series Hollow Shaft Type Motor

Model	L
AM11SS2DHA-M01	55.6

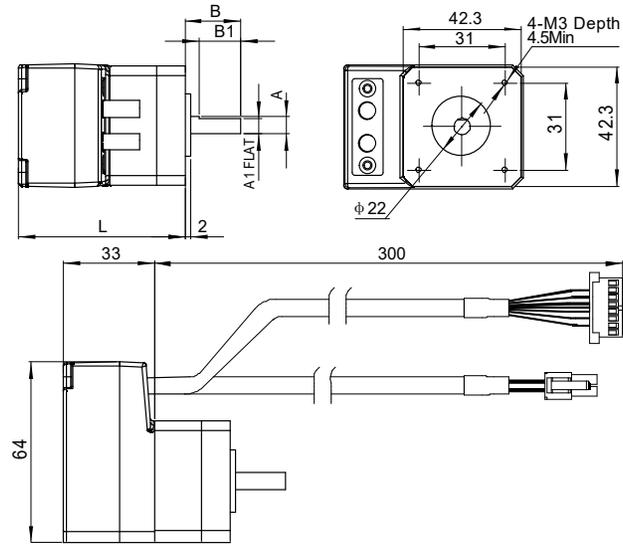


Note: For more product information, please contact your sales representative.

■ SS series 5000 line encoder stepper servo motor

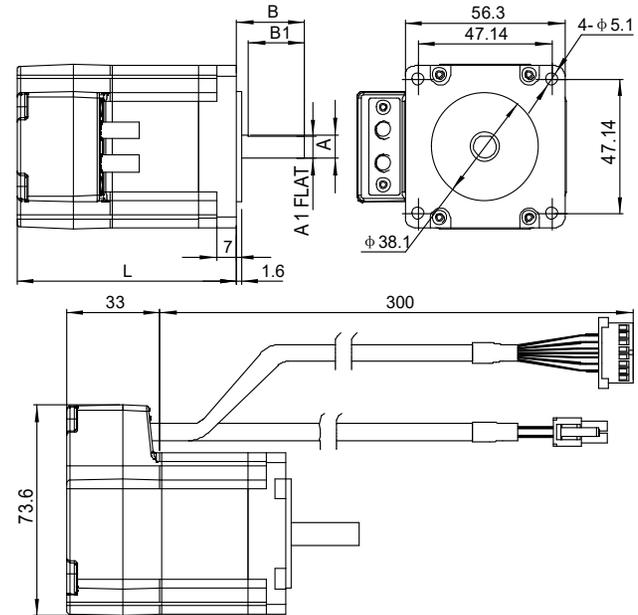
□ AM17 Series

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



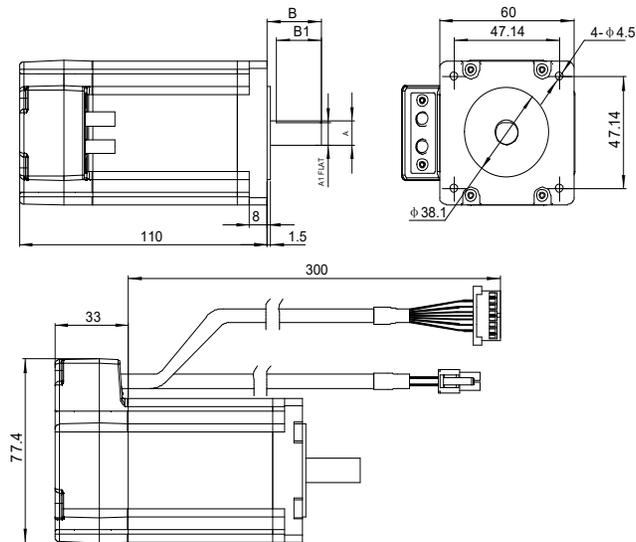
□ AM23 Series

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



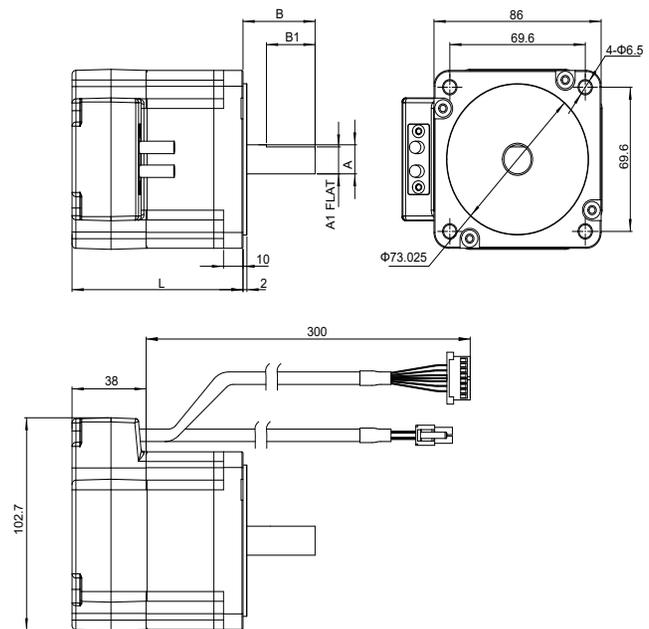
□ AM24 Series

Model	A	A1	B	B1	L
AM24SS3DGA-N	∅ 10	9.5	24	20	100
AM24SS3DGB-N	∅ 8	7.5	20.6	15	100



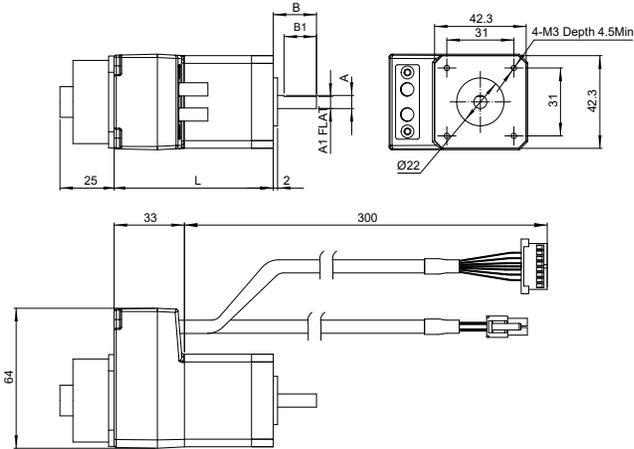
□ AM34 Series

Model	A	A1	B	B1	L
AM34SS1DGA-N	∅ 14	13	37	25	88
AM34SS3DGA-N	∅ 14	13	37	25	117.5
AM34SS5DGA-N	∅ 14	13	37	25	147



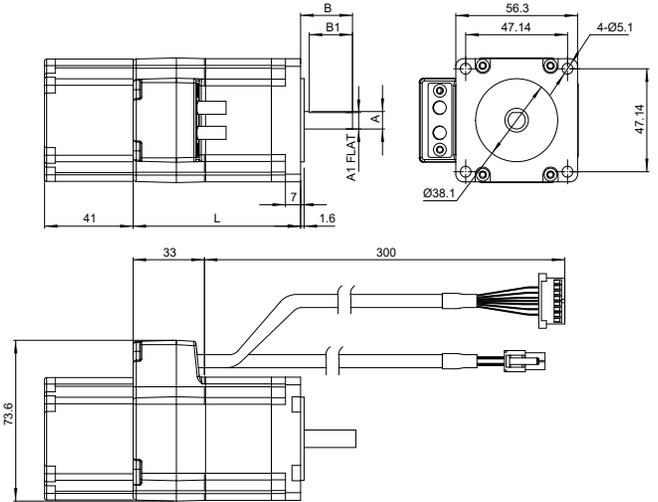
AM17 Series (with brake)

Model	A	A1	B	B1	L
AM17SS1DGA-N-BR01	∅ 6	5.5	20	15	59.5
AM17SS1DGB-N-BR01	∅ 5	4.5	24	15	59.5
AM17SS2DGA-N-BR01	∅ 6	5.5	20	15	65
AM17SS2DGB-N-BR01	∅ 5	4.5	24	15	65
AM17SS3DGA-N-BR01	∅ 6	5.5	20	15	73.5
AM17SS3DGB-N-BR01	∅ 5	4.5	24	15	73.5
AM17SS4DGA-N-BR01	∅ 6	5.5	20	15	89
AM17SS4DGB-N-BR01	∅ 5	4.5	24	15	89



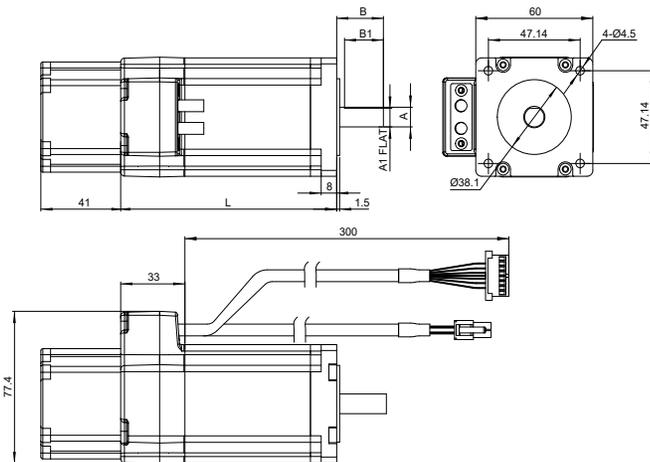
AM23 Series (with brake)

Model	A	A1	B	B1	L
AM23SS2DGA-N-BR01	∅ 8	7.5	24	20	77.5
AM23SS2DGB-N-BR01	∅ 6.35	5.85	20	15	77.5
AM23SS3DGA-N-BR01	∅ 8	7.5	24	20	99.5
AM23SS3DGB-N-BR01	∅ 6.35	5.85	20	15	99.5
AM23SS4DGA-N-BR01	∅ 8	7.5	24	20	102.5



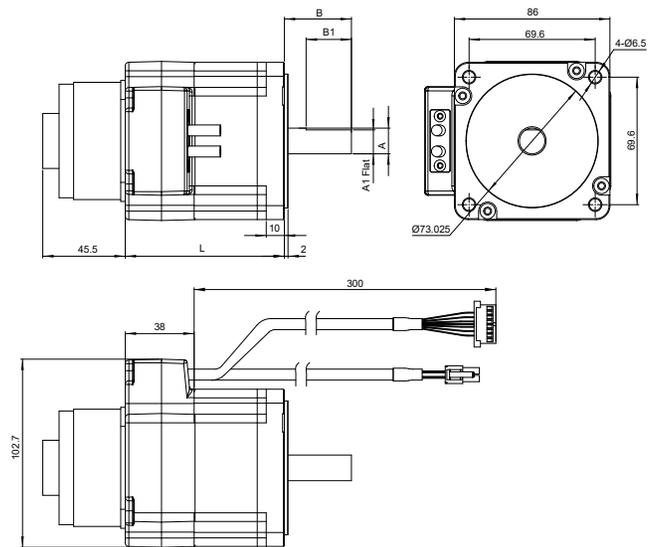
AM24 Series (with brake)

Model	A	A1	B	B1	L
AM24SS3DGA-N-BR01	∅ 10	9.5	24	20	111
AM24SS3DGB-N-BR01	∅ 8	7.5	20.6	15	111



AM34 Series (with brake)

Model	A	A1	B	B1	L
AM34SS1DGA-N-BR01	∅ 14	13	37	25	88
AM34SS3DGA-N-BR01	∅ 14	13	37	25	117.5
AM34SS5DGA-N-BR01	∅ 14	13	37	25	147

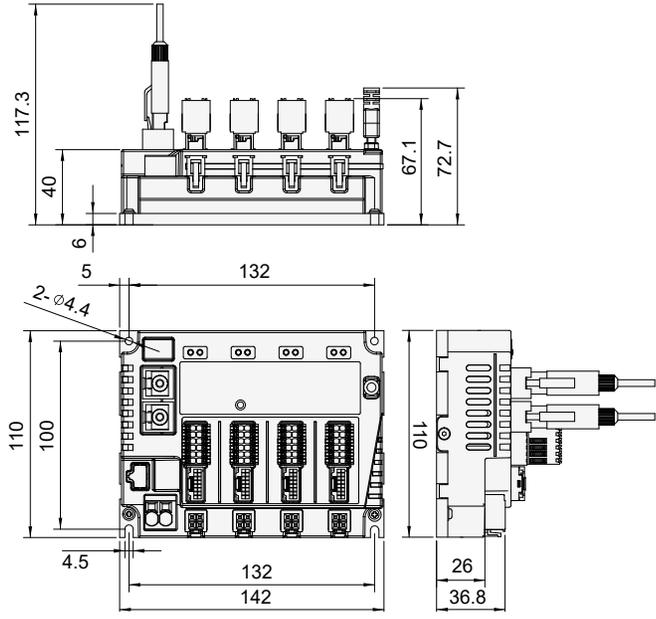


Brake Specification

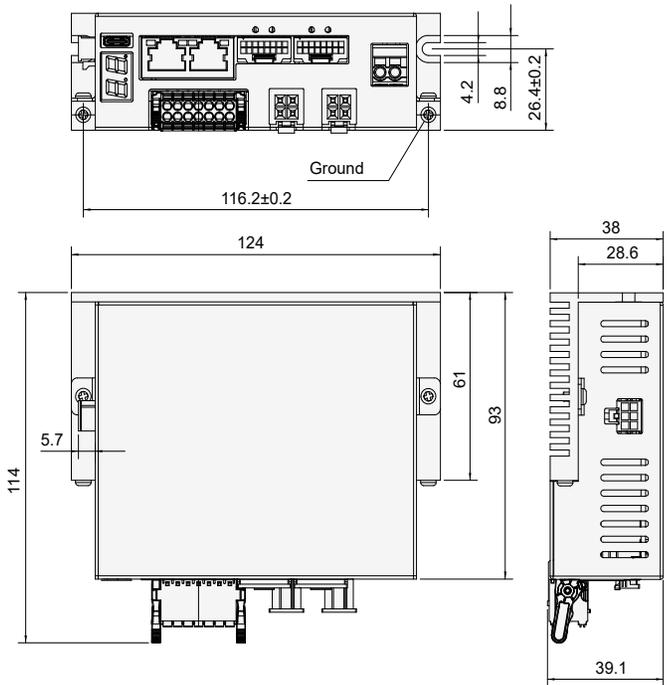
Model	Voltage (VDC)	Torque (N.m)	Power (W)	Reaction Time (ms)	Lifetime	Max Speed (rpm)	Insulation class
NEMA17	24	0.6	5.0	50	10000	5000	Class B
NEMA23/24	24	1.2	4.5	50	10000	1000	Class B
NEMA34	24	6.0	8.0	50	10000	5000	Class B

Driver Dimensions (Unit:mm)

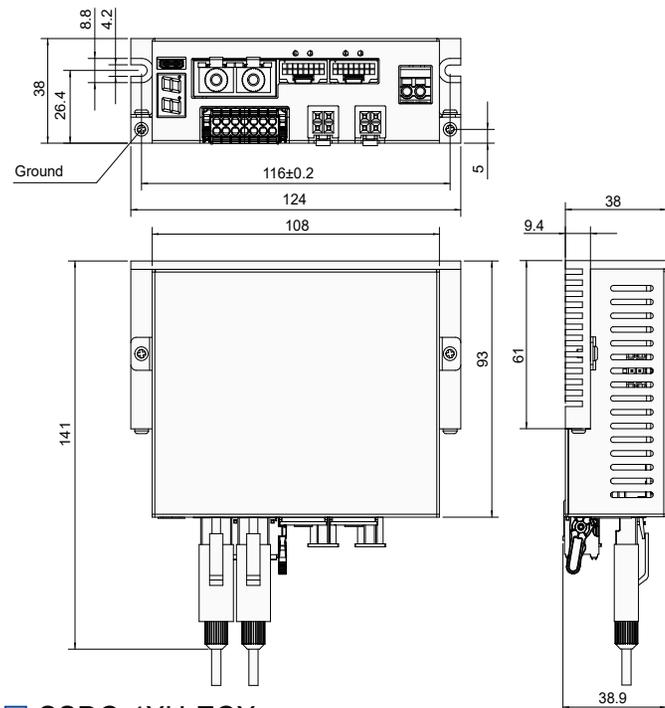
SSDC-4X-ECX, SSDC-4X-ECX-S



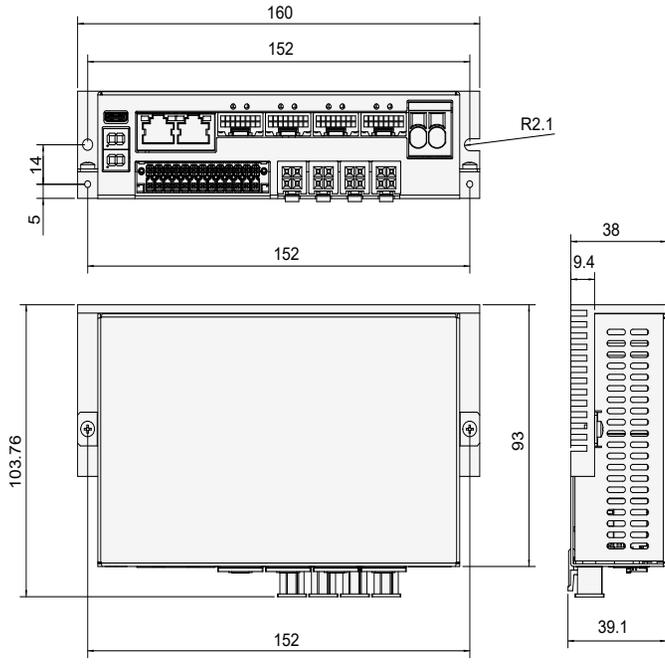
SSDC-2XU-ECX-S



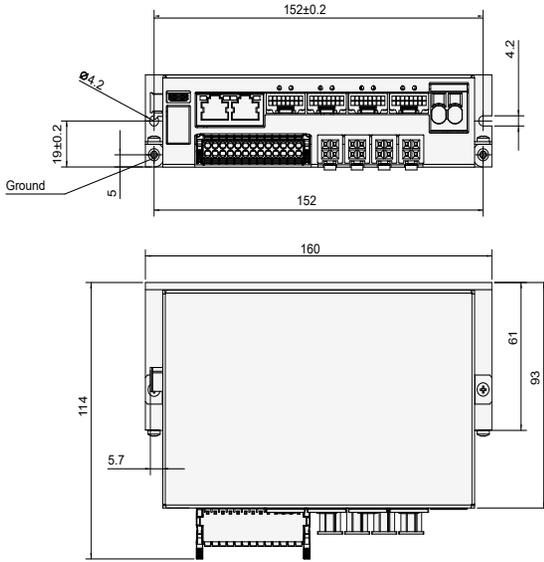
SSDC-2XU-ECX



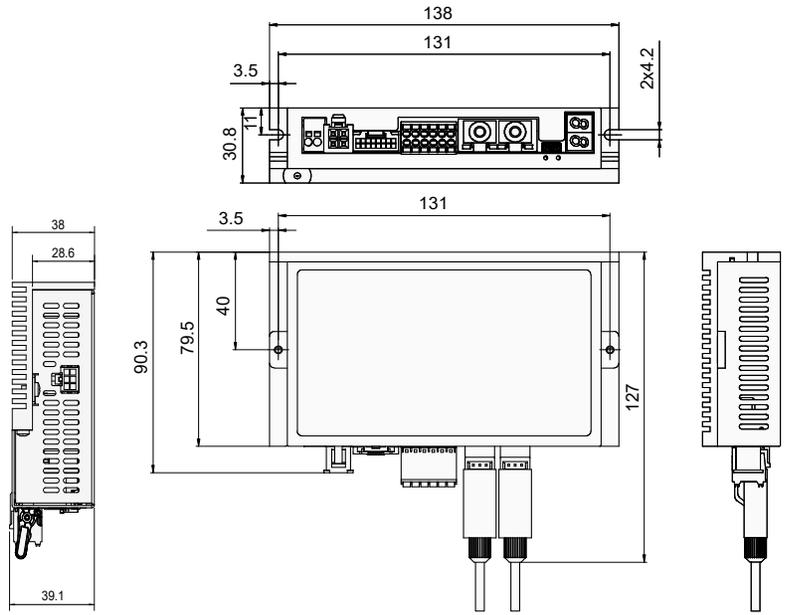
SSDC-4XU-ECX



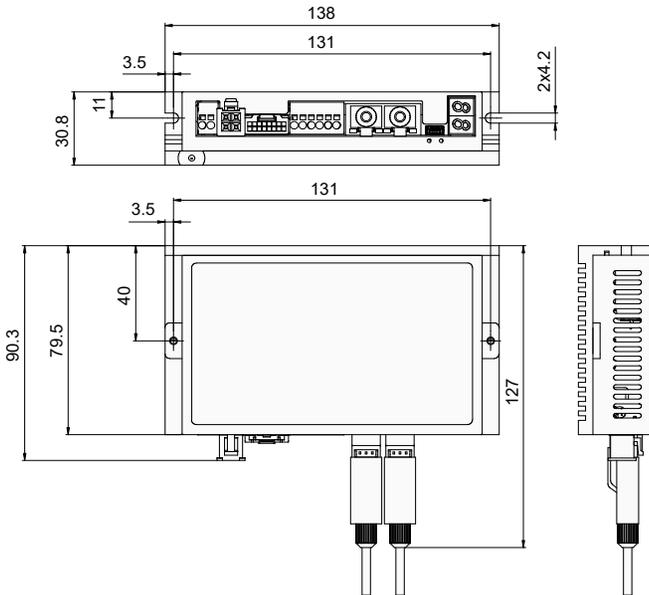
□ SSDC-4XU-ECX-S



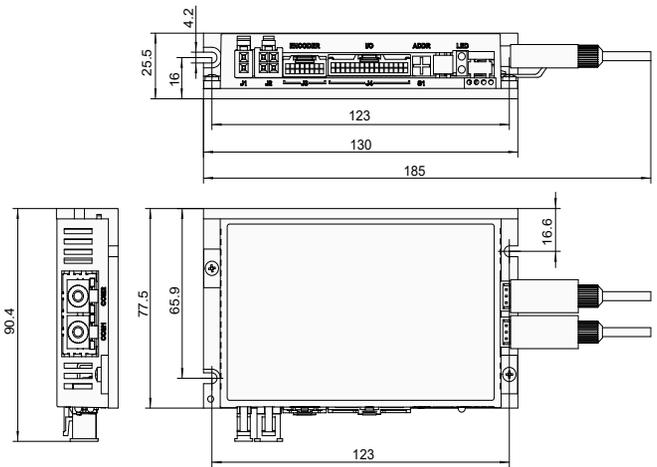
□ SSDC06/10-ECX-J



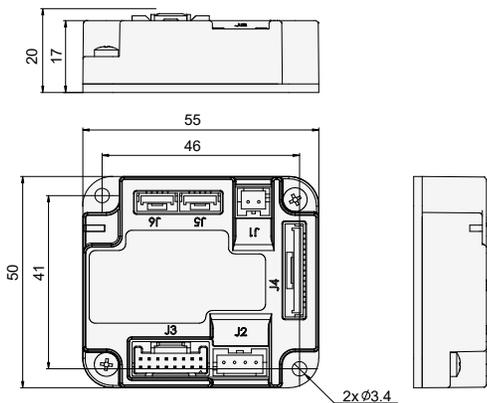
□ SSDC06/10-ECX-H



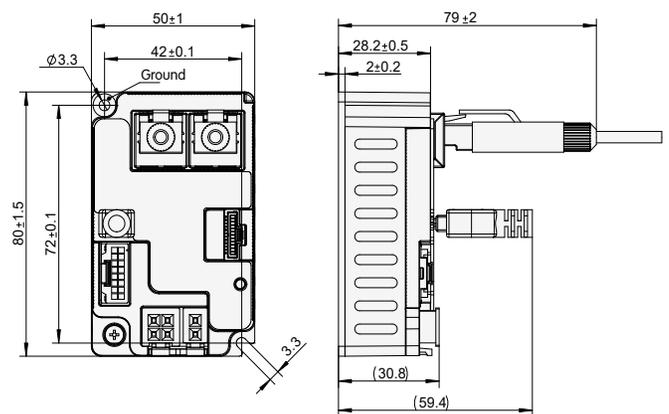
□ SSDC03/06/10-D/IP/PN



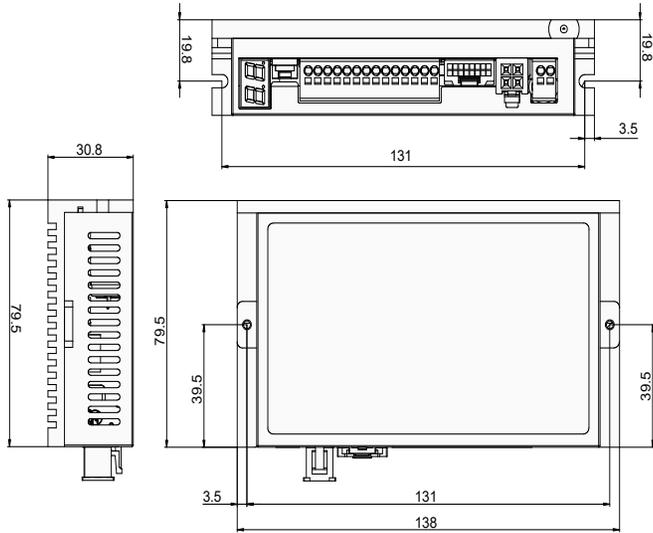
□ SSDC03-R-mini



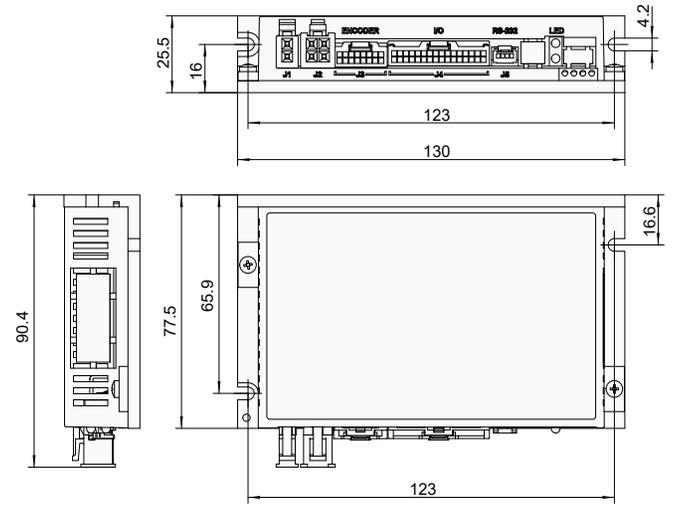
□ SSDC06-ECX-mini



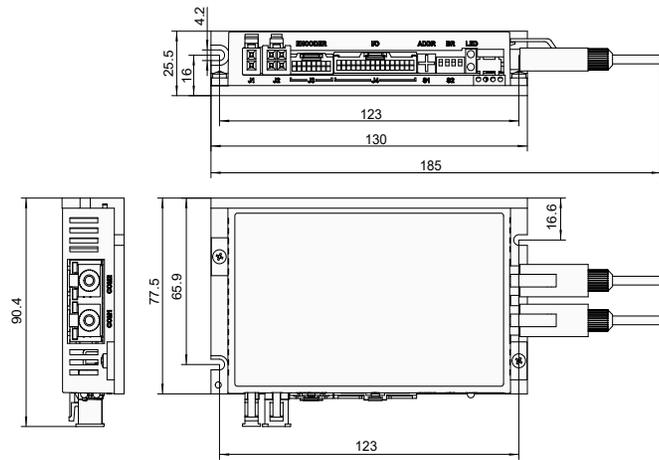
□ SSDC06/10-A-H



□ SSDC03/06/10-A

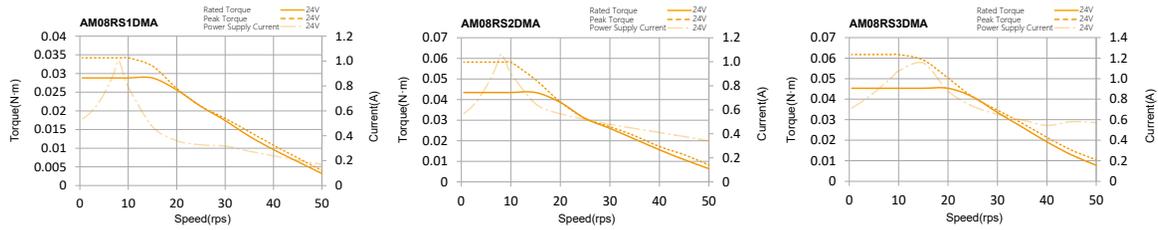


□ SSDC03/06/10-R, SSDC03/06/10-C

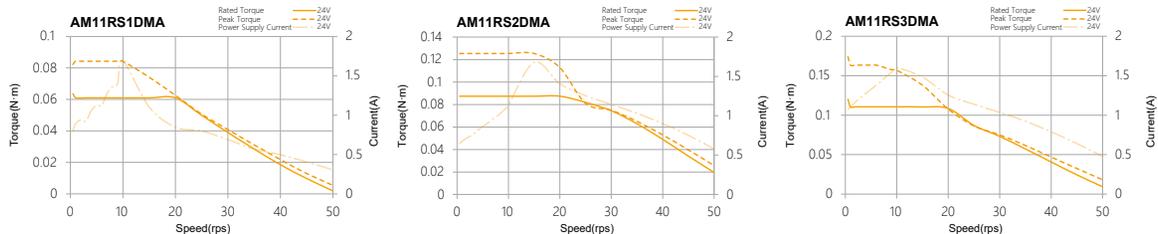


Torque Curves

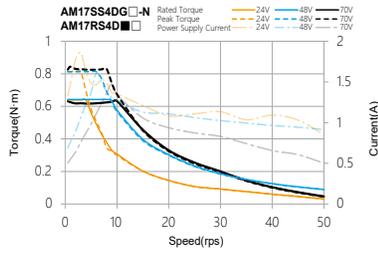
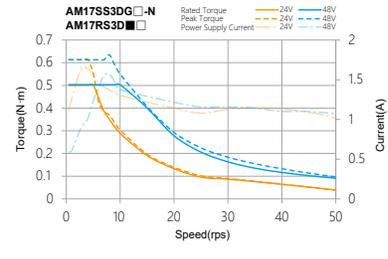
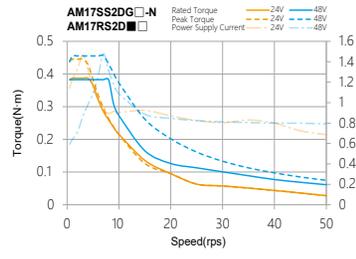
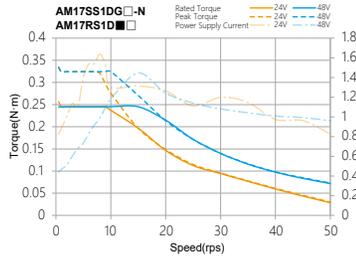
□ AM08RS Series



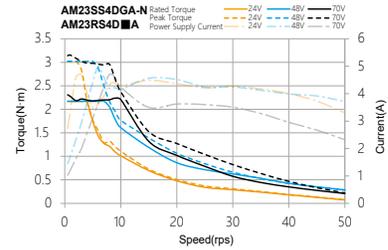
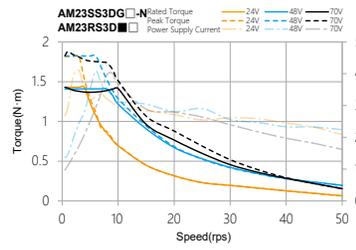
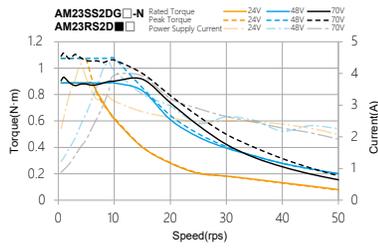
□ AM11RS Series



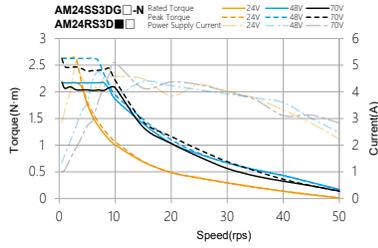
□ AM17SS/RS Series



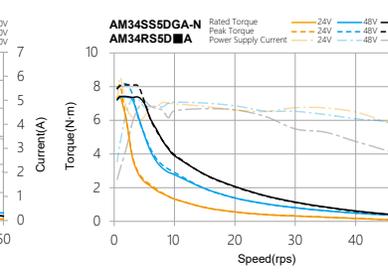
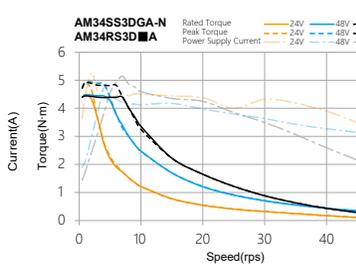
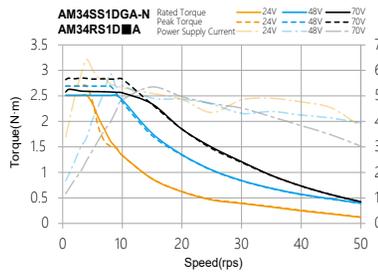
□ AM23SS/RS Series



□ AM24SS/RS Series



□ AM34SS/RS Series



Note:

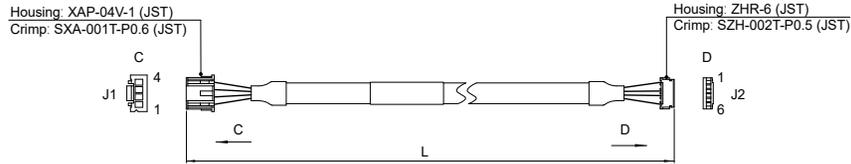
■ Torque curves are tested under laboratory conditions, for reference only

□ 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.

Optional Accessories (Sold separately)

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

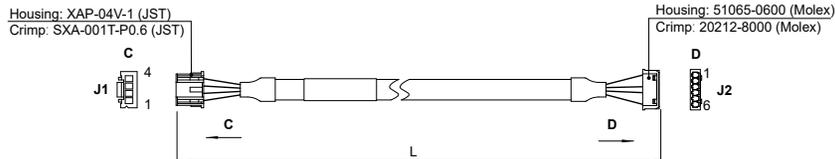


Model	Length(L)	Description
2141-0100-C05	1m	Flexbile type, 5 million times bends
2141-0300-C05	3m	Flexbile type, 5 million times bends
2141-0500-C05	5m	Flexbile type, 5 million times bends
2141-1000-C05	10m	Flexbile type, 5 million times bends

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 (Signal)	PIN (J2)
1	Blue(B-)	6
2	Red(B+)	4
3	Green(A-)	3
4	Black(A+)	1

Extended motor cable (For AM11RS motor) (SSDC03-R-mini Only)

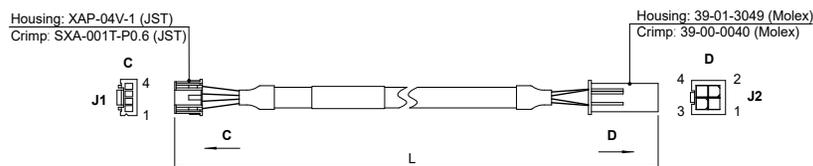


Model	Length(L)	Description
2142-0100-C05	1m	Flexbile type, 5 million times bends
2142-0300-C05	3m	Flexbile type, 5 million times bends
2142-0500-C05	5m	Flexbile type, 5 million times bends
2142-1000-C05	10m	Flexbile type, 5 million times bends

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	PIN (J2)
1	Blue/Black(B-)	1
2	Blue(B+)	3
3	Black(A-)	4
4	Red(A+)	6

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

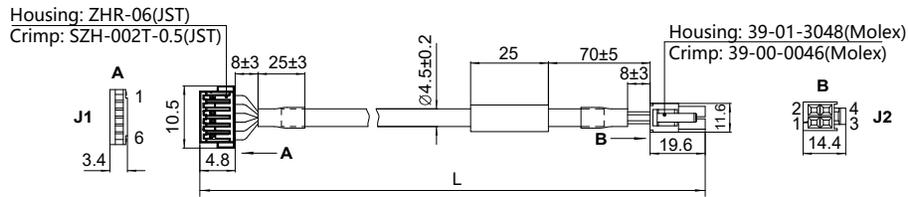


Model	Length(L)	Description
2143-0100-C05	1m	Flexbile type, 5 million times bends
2143-0300-C05	3m	Flexbile type, 5 million times bends
2143-0500-C05	5m	Flexbile type, 5 million times bends
2143-1000-C05	10m	Flexbile type, 5 million times bends

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	PIN (J2)
1	Blue(B-)	1
2	Red(B+)	2
3	Green(A-)	3
4	Black(A+)	4

□ Extended motor cable(For AM08RS motor)

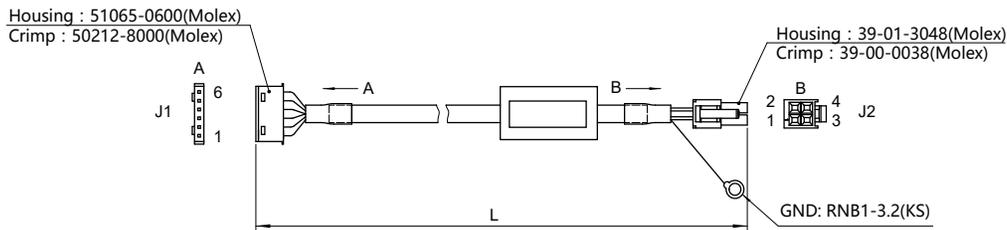


Model	Length(L)	Description
2136-0100	1m	Standard type
2136-0300	3m	Standard type
2136-0500	5m	Standard type
2136-1000	10m	Standard type
2136-0100-C05	1m	Flexbile type, 5 million times bends
2136-0300-C05	3m	Flexbile type, 5 million times bends
2136-0500-C05	5m	Flexbile type, 5 million times bends
2136-1000-C05	10m	Flexbile type, 5 million times bends

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

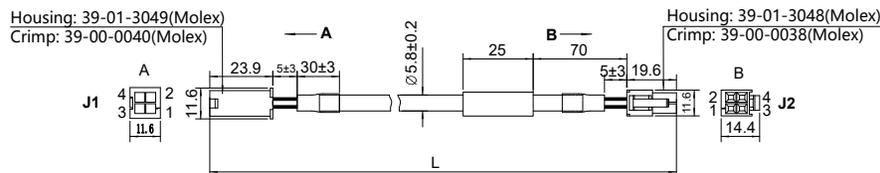


Model	Length(L)	Description
2109-0100	1m	Standard type
2109-0300	3m	Standard type
2109-0500	5m	Standard type
2109-1000	10m	Standard type
2109-0100-C05	1m	Flexbile type, 5 million times bends
2109-0300-C05	3m	Flexbile type, 5 million times bends
2109-0500-C05	5m	Flexbile type, 5 million times bends
2109-1000-C05	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 AM17/23/24RS motor)

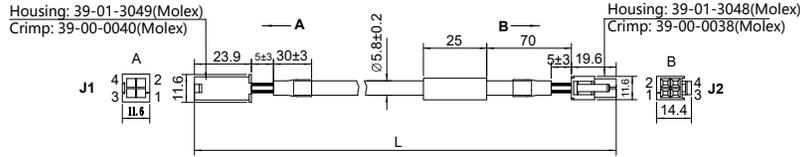


Model	Length(L)	Description
2027-0100	1m	Standard type
2027-0300	3m	Standard type
2027-0500	5m	Standard type
2027-1000	10m	Standard type
2027-0100-C05	1m	Flexbile type, 5 million times bends
2027-0300-C05	3m	Flexbile type, 5 million times bends
2027-0500-C05	5m	Flexbile type, 5 million times bends
2027-1000-C05	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 AM34RS motor)

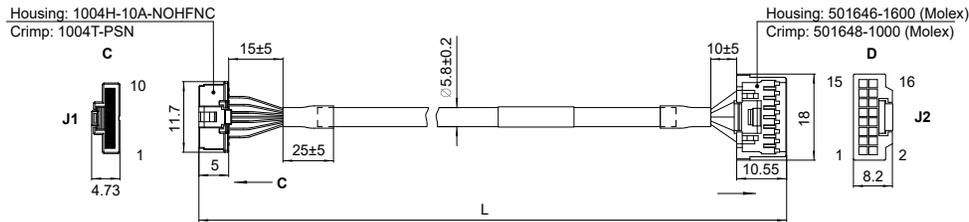


Model	Length(L)	Description
2028-0100	1m	Standard type
2028-0300	3m	Standard type
2028-0500	5m	Standard type
2028-1000	10m	Standard type
2028-0100-C05	1m	Flexbile type, 5 million times bends
2028-0300-C05	3m	Flexbile type, 5 million times bends
2028-0500-C05	5m	Flexbile type, 5 million times bends
2028-1000-C05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

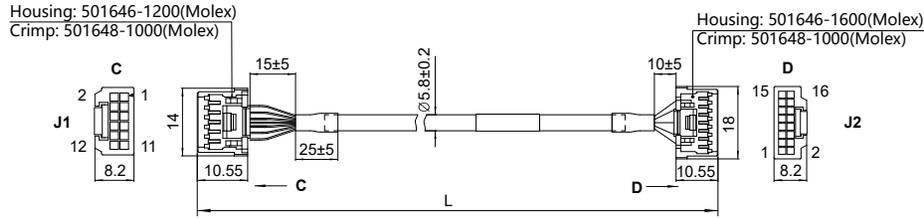
□ Extended encoder cable(For AM08RS motor)



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 AM11RS motor)

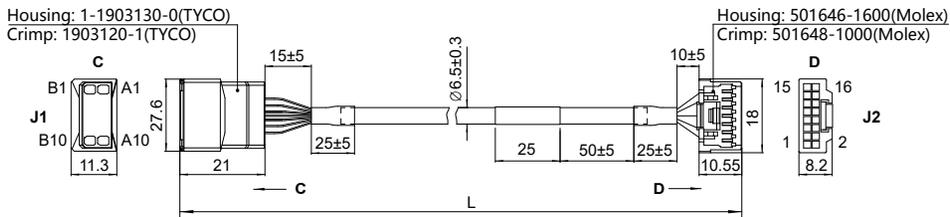


Model	Length(L)	Description
2164-0100	1m	Standard type
2164-0300	3m	Standard type
2164-0500	5m	Standard type
2164-1000	10m	Standard type
2164-0100-C05	1m	Flexbile type, 5 million times bends
2164-0300-C05	3m	Flexbile type, 5 million times bends
2164-0500-C05	5m	Flexbile type, 5 million times bends
2164-1000-C05	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 AM17/23/24/34SS-N motor)

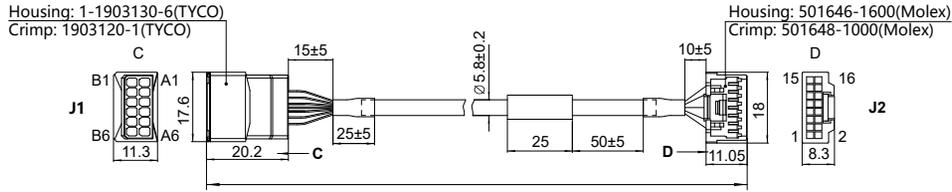


Model	Length(L)	Description
2165-0100	1m	Standard type
2165-0300	3m	Standard type
2165-0500	5m	Standard type
2165-1000	10m	Standard type
2165-0100-C05	1m	Flexbile type, 5 million times bends
2165-0300-C05	3m	Flexbile type, 5 million times bends
2165-0500-C05	5m	Flexbile type, 5 million times bends
2165-1000-C05	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 AM17/23/24/34RS motor)

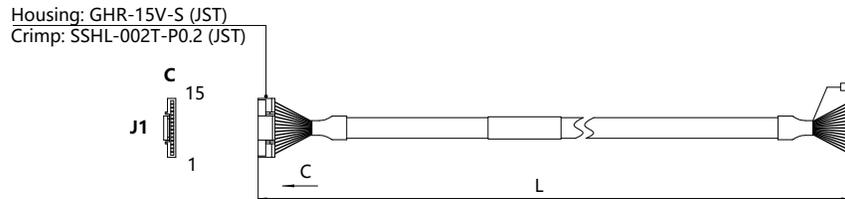


Model	Length(L)	Description
2159-0100	1m	Standard type
2159-0300	3m	Standard type
2159-0500	5m	Standard type
2159-1000	10m	Standard type
2159-0100-C05	1m	Flexbile type, 5 million times bends
2159-0300-C05	3m	Flexbile type, 5 million times bends
2159-0500-C05	5m	Flexbile type, 5 million times bends
2159-1000-C05	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

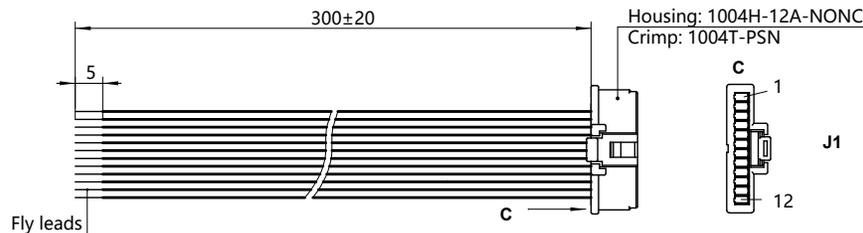
□ I/O Cable (SSDC03-R-mini Only)



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)

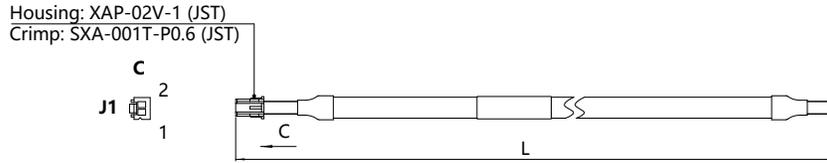
□ I/O Cable (SSDC06-ECX-mini Only)



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-)

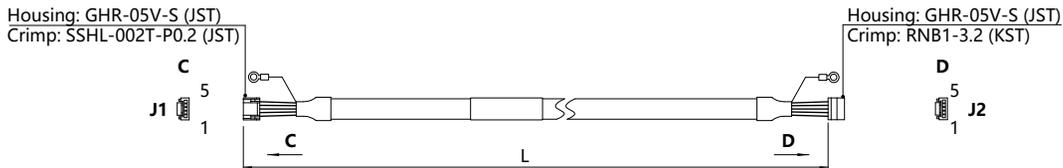
□ Extended power cable (SSDC03-R-mini Only)



Model	Length(L)
1148-0100	1m
1148-0200	2m
1148-0300	3m

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

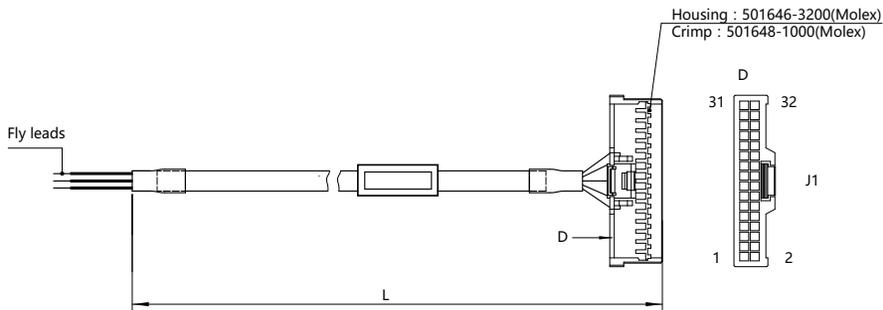
□ Extended communication cable (SSDC03-R-mini Only)



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

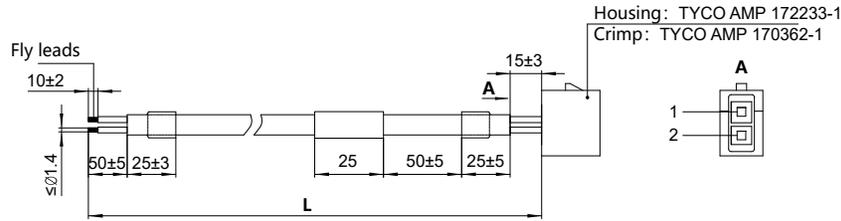
□ I/O Cable



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	Green/Black(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)	31	Yellow/White(ENC Z+)
16	NC	32	Yellow/Black(ENC Z-)

□ Brake extension cable



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

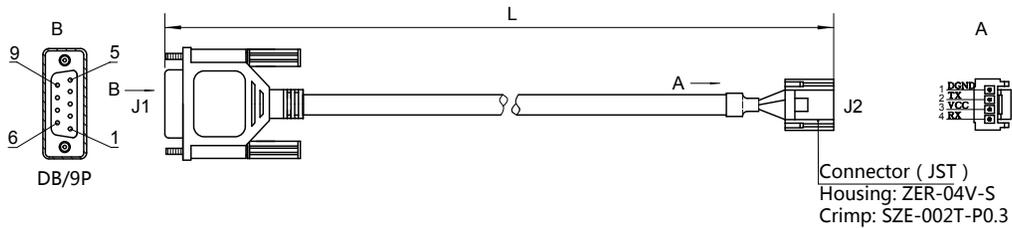


Model	Length(L)	Description
2012-030*	0.3m	Standard type
2012-300	3m	Standard type
2013-030	0.3m	Shielded Type
2013-300	3m	Shielded Type

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

□ Configuration Cable

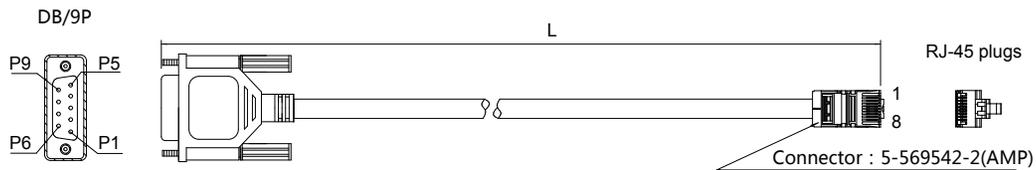
- SSDC-EC、SSDC-A configuration cable



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

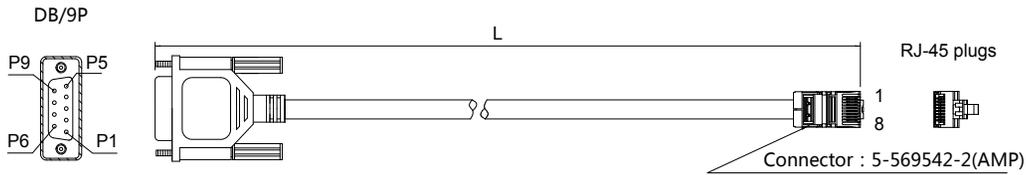
*2101-150 is included in the drive package

- SSDC-R Configuration cable



Model	Length(L)	Description
2102-150	1.5m	Standard type

▪ SSSC-C Configuration cable



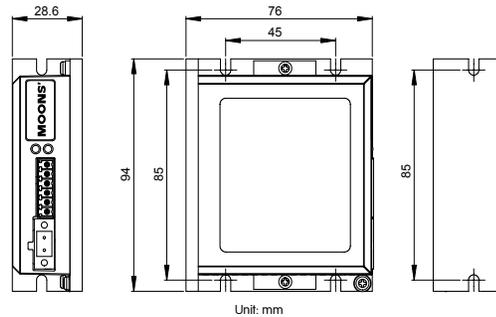
Model	Length(L)	Description
2019-150	1.5m	Standard type

□ 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.



◇ 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



Appendix: UL Model

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	Rotor Inertia	Encoder Resolution	Maximum Speed	Mass	Frame Size	Permissible Overhung Load(N)					Permissible Thrust Load																							
			N·m	gcm ²	counts/rev	RPM	g	mm	Distance(L) from Shaft End(mm)																												
			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																																				
AM17RS2DMB	AM17RS2DMB-F																																				
AM17RS3DMA	AM17RS3DMA-F																																				
AM17RS3DMB	AM17RS3DMB-F																																				
AM17RS4DMA	AM17RS4DMA-F		20000	0.52	82		520																														
AM17RS4DMB	AM17RS4DMB-F			0.7	123		760																														
AM17SS1DGA-N	AM17SS1DGA-F			0.26	38		390																														
AM17SS1DGB-N	AM17SS1DGB-F			0.42	57		440																														
AM17SS2DGA-N	AM17SS2DGA-F						520																														
AM17SS2DGB-N	AM17SS2DGB-F						760																														
AM17SS3DGA-N	AM17SS3DGA-F						0.52								82	390																					
AM17SS3DGB-N	AM17SS3DGB-F		SSDC06 or SSDC10	0.95	260		4096								3000	850	56	63	75	95	130	190	Less than the motor mass														
AM23RS2DMA	AM23RS2DMA-F																																				
AM23RS2DMB	AM23RS2DMB-F																																				
AM23RS3DMA	AM23RS3DMA-F	20000		1.5	460	1250																															
AM23RS3DMB	AM23RS3DMB-F			2.4	365	1090																															
AM23RS4DMA	AM23RS4DMA-F			0.95	260	850																															
AM23SS2DGA-N	AM23SS2DGA-F	20000	1.5	460	1250	3000	60	90	100	130	180	270	Less than the motor mass																								
AM23SS2DGB-N	AM23SS2DGB-F																																				
AM23SS3DGA-N	AM23SS3DGA-F																																				
AM23SS3DGB-N	AM23SS3DGB-F																																				
AM23SS4DGA-N	AM23SS4DGA-F	4096	2.5	900	1650									3000		86								260	290	340	390	480	Less than the motor mass								
AM23SS4DGB-N	AM23SS4DGB-F																																				
AM24RS3DMA	AM24RS3DMA-F	SSDC10	2.7	915	4096																									3000	86	260	290	340	390	480	Less than the motor mass
AM24RS3DMB	AM24RS3DMB-F																																				
AM24RS4DMA	AM24RS4DMA-F																																				
AM24SS3DGA-N	AM24SS3DGA-F		20000	5.2	1480										2000		2000																				
AM24SS3DGB-N	AM24SS3DGB-F																3100																				
AM34RS1DMA	AM34RS1DMA-F																7.0	2200	4200																		
AM34RS3DMA	AM34RS3DMA-F	SSDC10	2.7	915	4096										3000		86	260	290	340	390	480	Less than the motor mass														
AM34RS5DMA	AM34RS5DMA-F																																				
AM34SS1DGA-N	AM34SS1DGA-F																																				
AM34SS3DGA-N	AM34SS3DGA-F		20000	5.2	1480	2000	2000																														
AM34SS3DGB-N	AM34SS3DGB-F						3100																														
AM34SS5DGA-N	AM34SS5DGA-F						7.0	2200	4200																												



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