

STF

STEPPER MOTOR DRIVES

Field bus control

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



Industrial Field Bus Control



The STF series are high performance fieldbus control stepper drive which also integrates with built-in motion controller. The drives can be controlled by SCL, Modbus/RTU, CANopen, eSCL, Modbus/TCP, EtherNet/IP, Profinet or EtherCAT in real time. Motion profiles can also be programmed and stored in drives(Q Program) and then be triggered by fieldbus commands.

Features

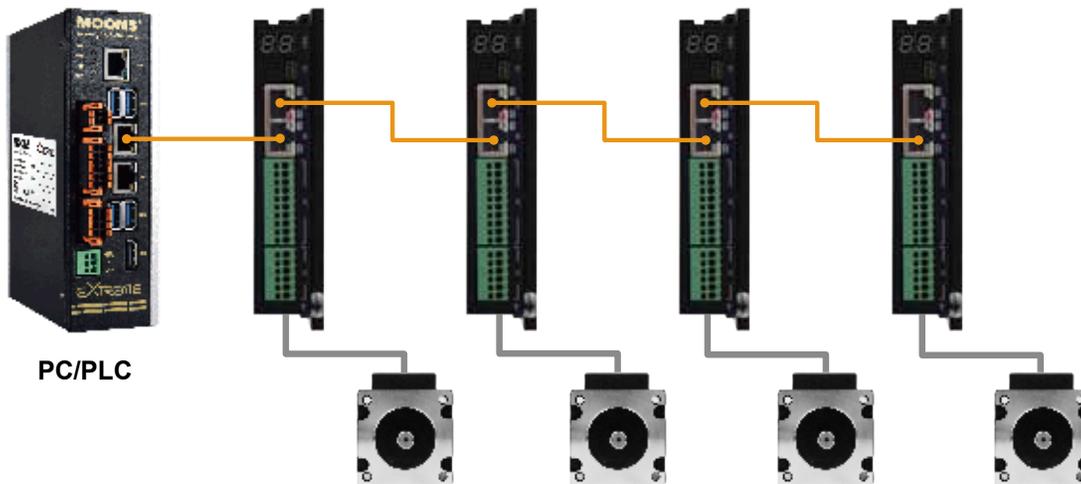
Host Control

- Accepts commands from host PC or PLC
- Real time control
- Multi-axes capable



Stand-Alone Programmable

- Stored program execution
- Multi-tasking
- Conditional processing
- Math functions
- Data registers



Safe & Convenient

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

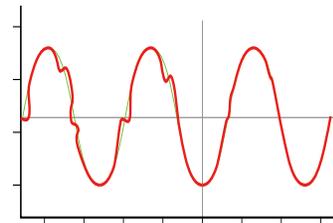
Abundant and flexible interface

- Up to 8 Digital Inputs, 4 Digital Outputs
— **Support for more feature settings**
- Dual Port RJ45 Bus Communication Control
— **Support daisy chain connection**

Anti-Resonance

-Provides better motor performance and higher speeds

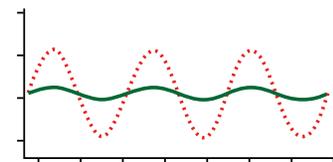
Step motor systems have a natural tendency to resonate at certain speeds. The STF drives automatically calculate the system's natural frequency and apply damping to the control algorithm. This greatly improves midrange stability, allows higher speeds and greater torque utilization, and also improves settling times.



Torque Ripple Smoothing

-Produces smoother motion at low speed running

All step motors have an inherent low speed torque ripple that can affect the motion profile of the motor. By analyzing this torque ripple the system can apply a negative harmonic to counter this effect. This gives the motor much smoother motion at low speed.



Auto Setup & Self Test

At start-up the drive measures motor parameters, including the resistance and inductance, then uses this information to optimize the system performance. The drive can also detect open and short circuits.



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

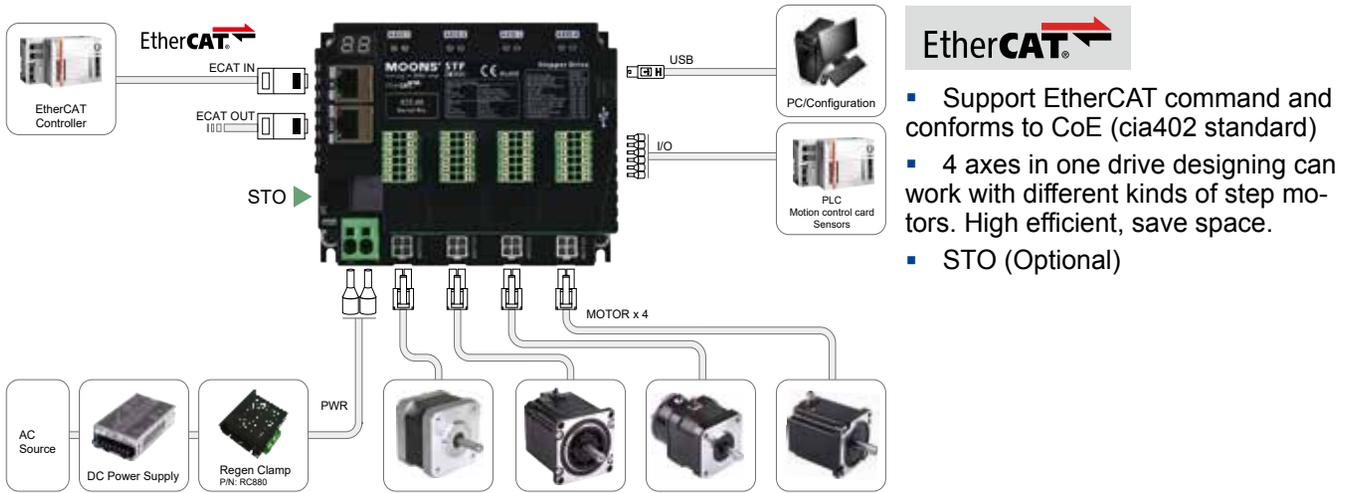
- Friendly User Interface
- Multiple operation Mode Support
- Multi-Thread, High Performance
- CAN bus monitor and log function
- Kvaser/PEAK/ZLG adapter support

FREE DOWNLOAD

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

System Configuration

STF-4X-ECX, STF-4X-ECX-S EtherCAT Communication type



Standard Accessories (Included in the package)

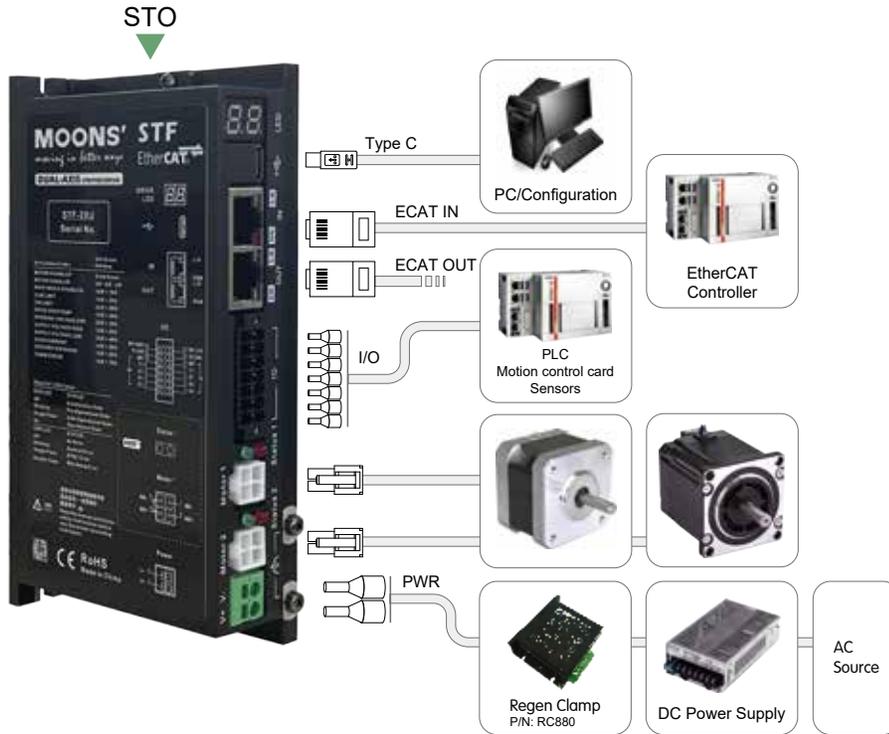
Model	Qty	Category	Description
39-01-3048	1*4	Housing	Motor connector housing (J2)
39-00-0038	5*4	Crimp	Motor connector crimp
15EDGKNHB-3.5-12P-14-07A(H)	4	Connector	I/O connector
43025-0600	1	STO Connector Housing	Only for STO type drives
43030-0001	8	STO Connector Crimp	Only for STO type drives

Optional Accessories*

Model	Qty	Category	Description
2012 Series	1	Cable	Network Cable
2013 Series	1	Cable	Shielded Network Cable
2620-150	1	Cable	USB mini-B Configuration Cable 1.5m

* Please refer to Page 29 for Optional Accessories

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



EtherCAT

- Support EtherCAT command and conforms to CoE (cia402 standard)
- 2 axes in one drive designing can work with different kinds of step motors. High efficient, save space.
- STO (Optional)

Standard Accessories (Included in the package)

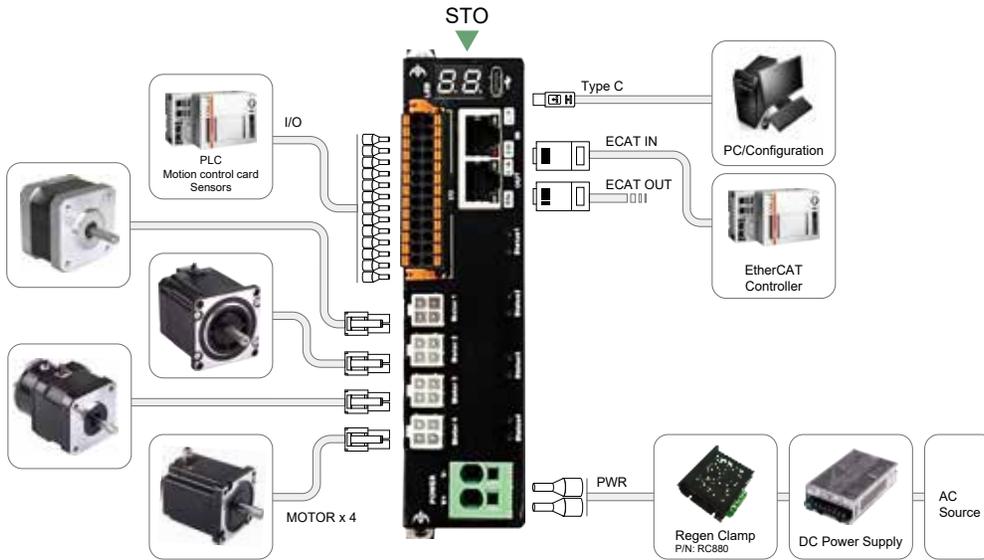
Model	Qty	Category	Description
39-01-3048	1*2	Housing	Motor connector housing (J2)
39-00-0038	5*2	Crimp	Motor connector crimp
15EDGKNHG-3.5-14P-13-00A(H)	1	Connector	I/O connector
43025-0600	1	STO Connector Housing	Only for STO type drives
43030-0001	8	STO Connector Crimp	Only for STO type drives

Optional Accessories*

Model	Qty	Category	Description
2012 Series	1	Cable	Network Cable
2013 Series	1	Cable	Shielded Network Cable
RC880	1	Regen Clamp	Regen Clamp

* Please refer to Page 29 for Optional Accessories

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



EtherCAT

- Support EtherCAT command and conforms to CoE (cia402 standard)
- 4 axes in one drive designing can work with different kinds of step motors. High efficient, save space.
- STO (Optional)

Standard Accessories (Included in the package)

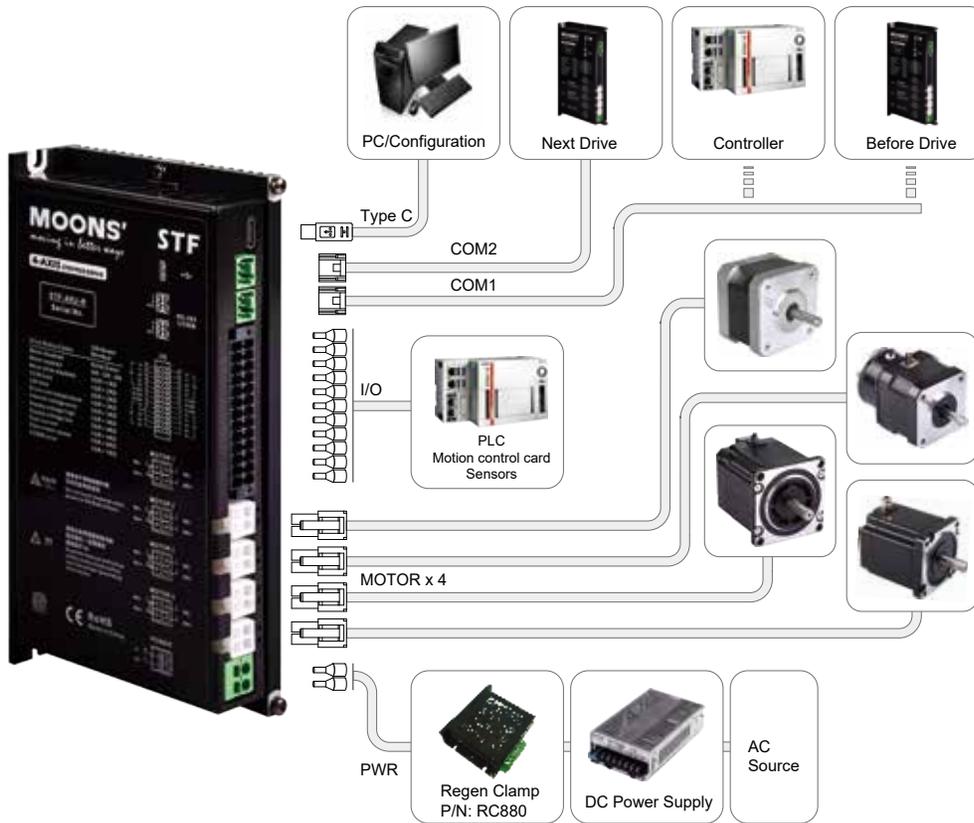
Model	Qty	Category	Description
39-01-3048	1*4	Housing	Motor connector housing (J2)
39-00-0038	5*4	Crimp	Motor connector crimp
15EDGKNHG-3.5-26P-13-00A(H)	1	Connector	I/O connector
43025-0600	1	STO Connector Housing	Only for sto type drives
43030-0001	8	STO Connector Crimp	Only for sto type drives

Optional Accessories*

Model	Qty	Category	Description
2012 Series	1	Cable	Network Cable
2013 Series	1	Cable	Shielded Network Cable

* Please refer to Page 29 for Optional Accessories

STF-4XU-R RS-485 Communication type



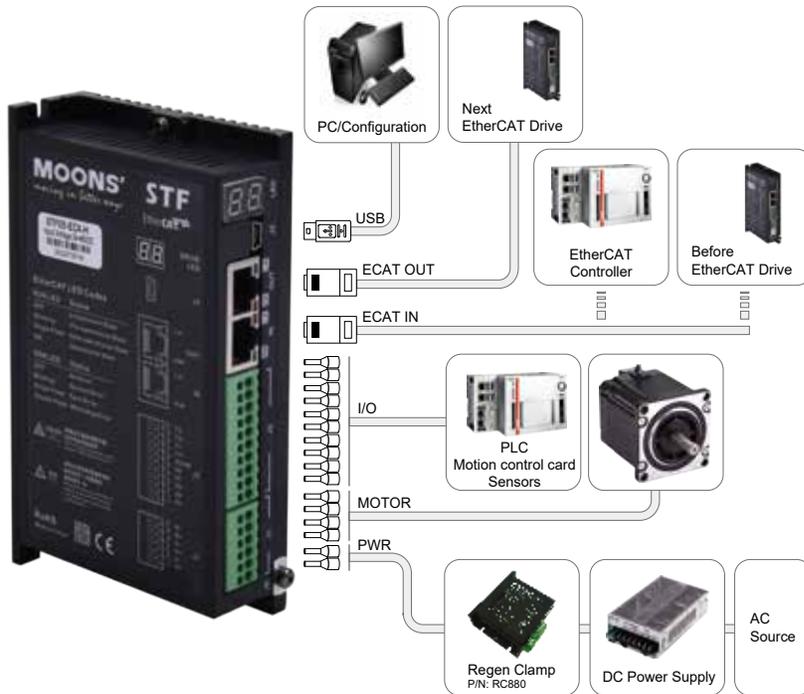
- RS-485, Modbus/RTU protocol
- Stand alone (Q programmer)
- · 4 axes in one drive designing can work with different kinds of step motors. High efficient, save space.

Standard Accessories (Included in the package)

Model	Qty	Category	Description
39-01-3048	1*4	Housing	Motor connector housing (J2)
39-00-0038	5*4	Crimp	Motor connector crimp
15EDGKNHG-3.5-26P-13-00A(H)	1	Connector	I/O connector
15EDGKD-2.5-03P-14-00A(H)	2	Connector	RS485 Connector

* Please refer to Page 29 for Optional Accessories

■ STF-ECX-H, EtherCAT Communication type



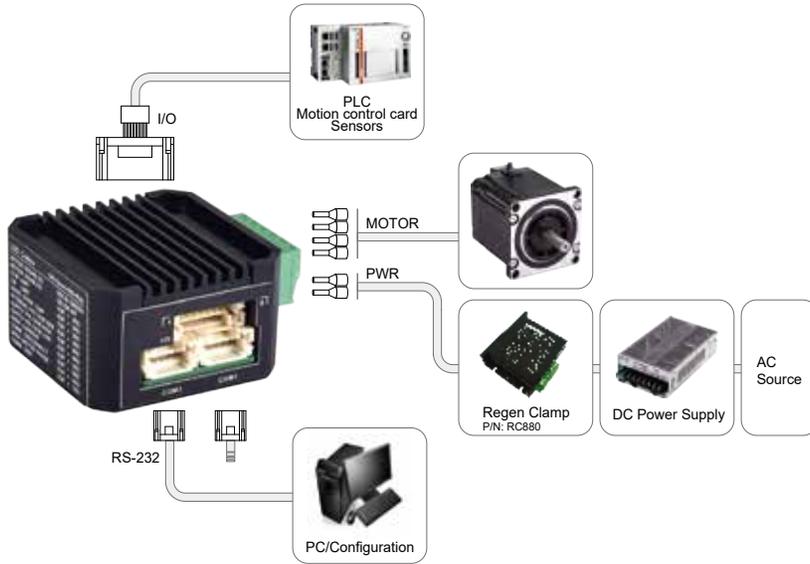
- Support EtherCAT command and conforms to CoE (cia402 standard)
- Stand alone (Q programmer)

Optional Accessories*

Model	Qty	Category	Description
2012 Series	1	Cable	Network Cable
2013 Series	1	Cable	Shielded Network Cable
2620-150	1	Cable	USB mini-B Configuration Cable 1.5m
RC880	1	Regen Clamp	Regen Clamp

* Please refer to Page 29 for Optional Accessories

■ STF03-C-mini, CANopen Communication and RS-232 Communication Port



CANopen

- CANopen protocol, CiA301 and CiA402
- Stand alone (Q programmer)

Standard Accessories (Included in the package)

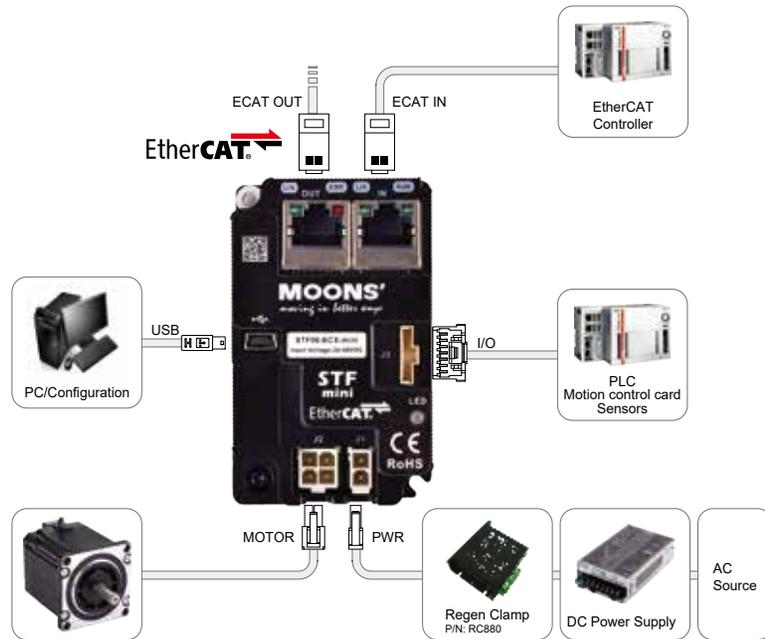
Model	Qty	Category	Description
1023-0100	1	Cable	I/O Cable (For STF03-C-mini Series only)
2112-100	1	Cable	CANopen Daisy Chain Extended cable
15EDGRC-3.5-06P-14-00A(H)	8	Connector	Motor and power connector

Optional Accessories*

Model	Qty	Category	Description
1023 Series	1	Cable	I/O Cable (For STF03-C-mini Series only)
2112 Series	1	Cable	CANopen Daisy Chain Extended cable
RC880	1	Regen Clamp	Regen Clamp

* Please refer to Page 29 for Optional Accessories

■ STF06-ECX-mini, EtherCAT Communication type



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

Standard Accessories (Included in the package)

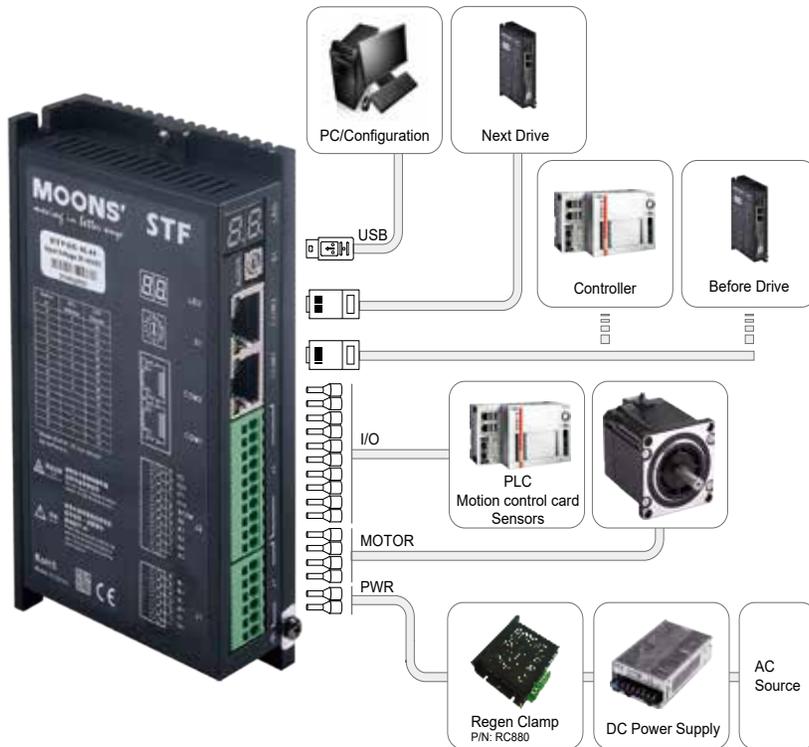
Model	Qty	Catagory	Description
1103-200	1	Cable	2m Power supply cable
2012-030	1	Cable	Network Cable 0.3m
1143-030	1	Cable	0.3m I/O Cable (STF06-ECX-mini only)
39-01-3048	1	Housing	Motor connector housing
39-00-0038	5	Crimp	Motor connector crimp

Optional Accessories*

Model	Qty	Catagory	Description
2012 Series	1	Cable	Network Cable
2013 Series	1	Cable	Shielded Network Cable
2620-150	1	Cable	USB mini-B Configuration Cable 1.5m
RC880	1	Regen Clamp	Regen Clamp

* Please refer to Page 29 for Optional Accessories

■ STF-R-H, RS-485 Communication type



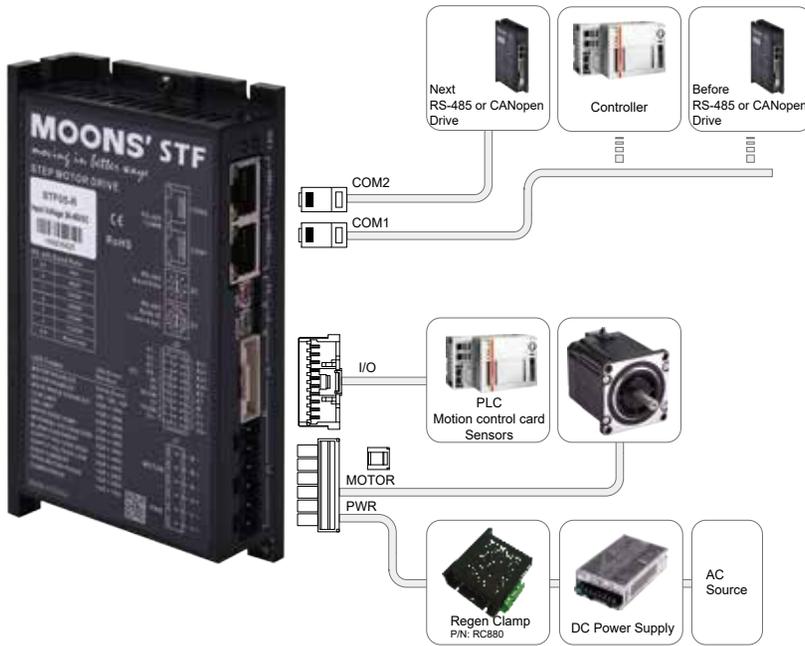
- RS-485, Modbus/RTU protocol
- Stand alone (Q programmer)

Optional Accessories*

Model	Qty	Category	Description
2012 Series	1	Cable	Network Cable
2013 Series	1	Cable	Shielded Network Cable
MS-USB-RS-485-01	1	Connector	USB-RS485/422 Adapter
RC880	1	Regen Clamp	Regen Clamp

* Please refer to Page 29 for Optional Accessories

■ STF-R, RS-485 Communication type; STF-C, CANopen Communication type



- Support Modbus/RTU or CANopen CiA301 and CiA402
- Stand alone (Q programmer)

Standard Accessories (Included in the package)

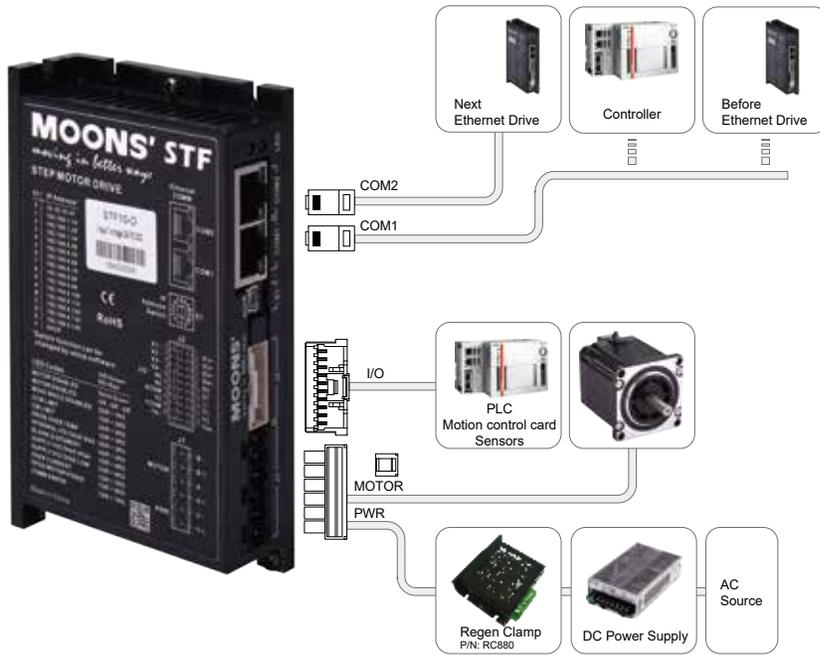
Model	Qty	Category	Description
2012-030	1	Cable	Network Cable 0.3m
2EDGK-5.08-06P-13-1000AH	1	Connector	Motor and power connector (STF05/10)
BCP-381-6 BK	1	Connector	Power and motor connector (STF03/06)
501646-2000	1	Housing	I/O connector housing
501648-1000	20	Crimp	I/O connector crimp

Optional Accessories*

Model	Qty	Category	Description
1015 Series	1	Cable	I/O cable
2012 Series	1	Cable	Network Cable
2013 Series	1	Cable	Shielded Network Cable
MS-USB-RS-485-01	1	Connector	USB-RS485/422 Adapter
RC880	1	Regen Clamp	Regen Clamp

* Please refer to Page 29 for Optional Accessories

■ STF-D/IP/PN, Ethernet Communication type



EtherNet/IP™

PROFINET®

Modbus

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

Standard Accessories (Included in the package)

Model	Qty	Category	Description
2012-030	1	Cable	Network Cable 0.3m
2EDGK-5.08-06P-13-1000AH	1	Connector	Power and motor connector (STF05/10)
BCP-381-6 BK	1	Connector	Power and motor connector (STF03/06)
501646-2000	1	Housing	I/O connector housing
501648-1000	20	Crimp	I/O connector crimp

Optional Accessories*

Model	Qty	Category	Description
1015 Series	1	Cable	I/O cable
2012 Series	1	Cable	Network Cable
2013 Series	1	Cable	Shielded Network Cable
RC880	1	Regen Clamp	Regen Clamp

* Please refer to Page 29 for Optional Accessories

Numbering System

Standard Series

STF 05 - ECX - H - FC

STF Series	Output Current (Peak) 03 = 3A 05 = 5A 06 = 6A 10 = 10A	Control Mode R = RS-485 C = CANopen D = Ethernet IP = EtherNet/IP PN = Profinet ECX = EtherCAT	Type Blank = Standard type FC = UL type
			Special Models Blank = Terminal block H = Push-in I/O connector ^{*1} mini = Mini size ^{*2}

*1 : STF05/10-ECX-H, SSDC05/10-R-H Only

*2 : STF03-C-mini, STF06-ECX-mini Only

Multi-Axis Series

STF 05 - 4X - ECX - S - FC

STF Series	Output Current (Peak) 05 = 5A 10 = 10A	Type 4X = Horizontal 4 Axes in 1 2XU = Vertical 2 Axes in 1 4XU = Vertical 4 Axes in 1	Control Mode ECX = EtherCAT IP = Ethernet IP R = Modbus/RTU	Type Blank = Standard type FC = UL type
			Special Models Blank = Without STO S = With STO	

Ordering Information

Model	Current	Voltage	Multi-functional Capability						
			Modbus/RTU	CANopen	Modbus/TCP	EtherNet/IP	EtherCAT	Profinet	Q Program
★ STF05-4X-ECX	0.1-5.0 A ※	24-60 VDC					√		
★ STF10-4X-ECX	0.1-10.0 A ※	24-60 VDC					√		
★ STF05-4X-ECX-S *	0.1-5.0 A ※	24-60 VDC					√		
★ STF10-4X-ECX-S *	0.1-10.0 A ※	24-60 VDC					√		
★ STF05-2XU-ECX	0.1-5.0 A ※	24-60 VDC					√		
★ STF10-2XU-ECX	0.1-10.0 A ※	24-60 VDC					√		
★ STF05-2XU-ECX-S *	0.1-5.0 A ※	24-60 VDC					√		
★ STF10-2XU-ECX-S *	0.1-10.0 A ※	24-60 VDC					√		
★ STF05-4XU-ECX	0.1-5.0 A ※	24-60 VDC					√		
★ STF10-4XU-ECX	0.1-10.0 A ※	24-60 VDC					√		
★ STF05-4XU-ECX-S *	0.1-5.0 A ※	24-60 VDC					√		
★ STF10-4XU-ECX-S *	0.1-10.0 A ※	24-60 VDC					√		
STF05-4XU-R	0.1-5.0 A ※	24-48 VDC	√						√
★ STF05-ECX-H	0.1-5.0 A	24-48 VDC					√		√
★ STF10-ECX-H	0.1-10.0 A	24-60 VDC					√		√
STF03-ECX	0.1-3.0 A	12-48 VDC					√		√
STF06-ECX	0.1-6.0 A	12-48 VDC					√		√
★ STF05-R-H	0.1-5.0 A	24-48 VDC	√						√
★ STF10-R-H	0.1-10.0 A	24-60 VDC	√						√
STF03-C-mini	0.1-3.0 A	12-48 VDC		√					√
STF06-ECX-mini	0.1-6.0 A	12-48 VDC					√		√
STF03-R	0.1-3.0 A	12-48 VDC	√						√
★ STF05-R	0.1-5.0 A	24-48 VDC	√						√
STF06-R	0.1-6.0 A	12-48 VDC	√						√
★ STF10-R	0.1-10.0 A	24-60 VDC	√						√
STF03-C	0.1-3.0 A	12-48 VDC		√					√
★ STF05-C	0.1-5.0 A	24-48 VDC		√					√
STF06-C	0.1-6.0 A	12-48 VDC		√					√
★ STF10-C	0.1-10.0 A	24-60 VDC		√					√
STF03-D	0.1-3.0 A	12-48 VDC			√				√
★ STF05-D	0.1-5.0 A	24-48 VDC			√				√
STF06-D	0.1-6.0 A	12-48 VDC			√				√
★ STF10-D	0.1-10.0 A	24-60 VDC			√				√
STF03-IP	0.1-3.0 A	12-48 VDC			√	√			√
★ STF05-IP	0.1-5.0 A	24-48 VDC			√	√			√
STF06-IP	0.1-6.0 A	12-48 VDC			√	√			√
★ STF10-IP	0.1-10.0 A	24-60 VDC			√	√			√
★ STF05-PN-01	0.1-5.0 A	24-48 VDC						√	√
★ STF10-PN-01	0.1-10.0 A	24-60 VDC						√	√

※ : STF05-2XU continuous 2*5A; STF10-2X continuous 2*10A. STF05-4X/4XU continuous 4*5A; STF10-4X continuous 4*10A.

★ : UL certified models are detailed in the appendix.

* : STO



Driver Specifications

Specifications

Driver	STF03	STF05	STF06	STF10
Input Voltage	12-48VDC	24-48VDC	12-48VDC	24-60VDC※
Output Current	Continuous Current 3A max	Continuous Current 5A max	Continuous Current 6A max	Continuous Current 10A max
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	0.16kg	0.3kg	0.16kg	0.3kg
Motor	AM Series Stepper Motor			

※：实际电压请参考对应型号硬件手册

Technical specifications

Multi-Axis Series

Driver	Type	Digital Inputs	Digital Outputs	STO	Bus Control	PLC(Q programmer)
STF**-4X-ECX	EtherCAT	5DI*4	3DO*4	/	EtherCAT	/
STF**-4X-ECX-S		5DI*4	3DO*4	√	EtherCAT	/
STF**-2XU-ECX		3DI*2	2DO*2	/	EtherCAT	/
STF**-2XU-ECX-S		3DI*2	2DO*2	√	EtherCAT	/
STF**-4XU-ECX		3DI*4	2DO*4	/	EtherCAT	/
STF**-4XU-ECX-S		3DI*4	2DO*4	√	EtherCAT	/
STF**-4XU-R	RS485	3DI*4	2DO*4	/	Modbus/RTU SCL	√

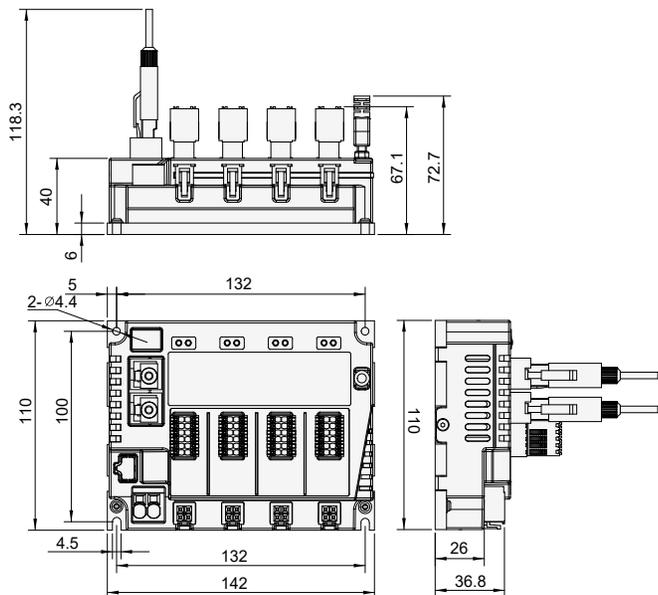
Standard Series

Driver	Type	Digital Inputs	Digital Outputs	Bus Control	PLC(Q programmer)
STF**-ECX	EtherCAT	8DI	4DO	EtherCAT	√
STF**-ECX-H		5DI	2DO	EtherCAT	√
STF**-ECX-mini		5DI	2DO	EtherCAT	√
STF**-R-H	RS485	5DI	2DO	Modbus/RTU	√
STF**-C-mini	CAN	2DI	1DO	CANopen	√
STF**-C		8DI	4DO	CANopen	√
STF**-D	Ethernet	8DI	4DO	Modbus/TCP eSCL	√
STF**-IP	Ethernet	8DI	4DO	Ethernet/IP eSCL	√
STF**-PN	Profinet	8DI	4DO	Profinet eSCL	√

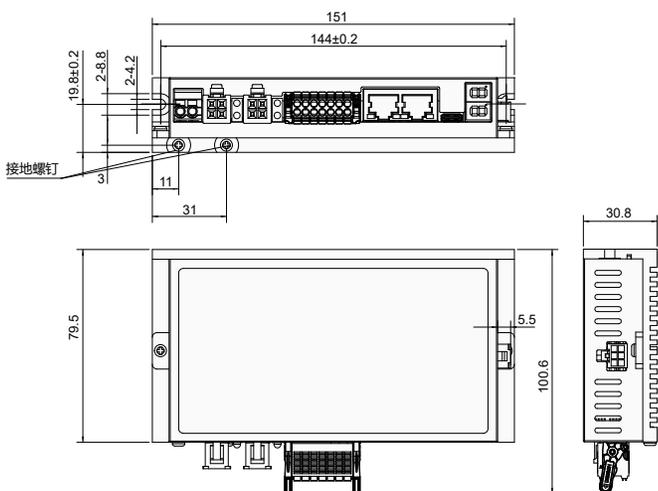
Mechanical Dimensions (Unit:mm)

Multi-Axis Series

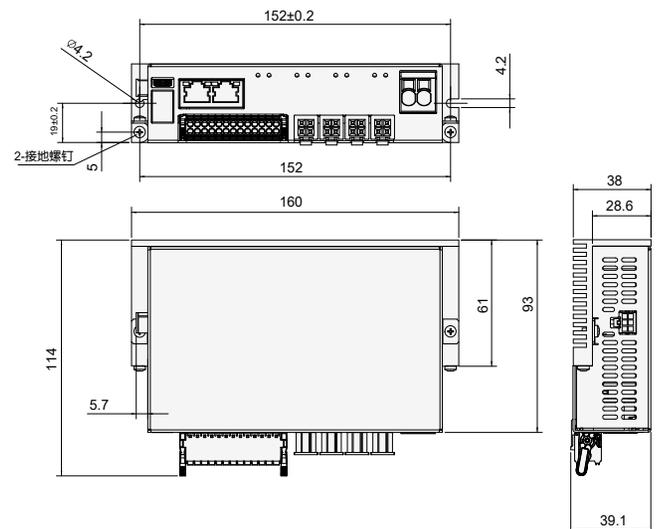
STF05/10-4X-ECX, STF05/10-4X-ECX-S



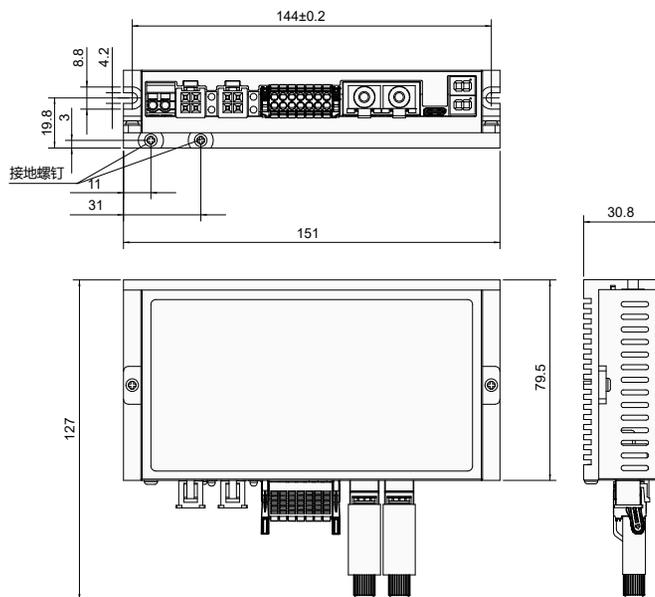
STF05/10-2XU-ECX-S



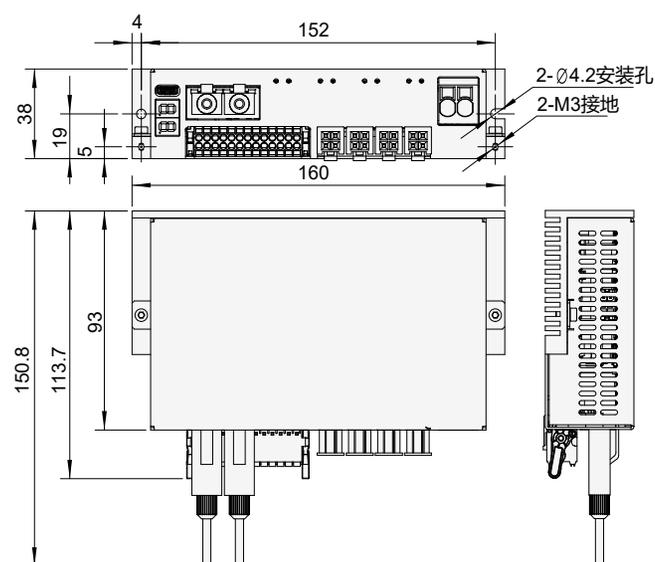
STF05/10-4XU-ECX-S



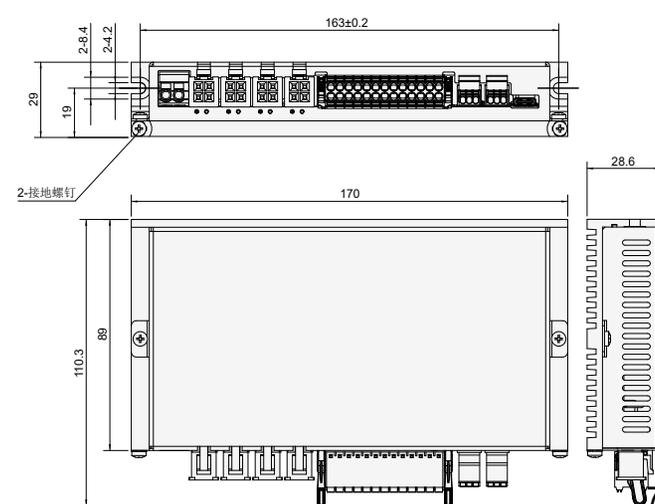
STF05/10-2XU-ECX



STF05/10-4XU-ECX

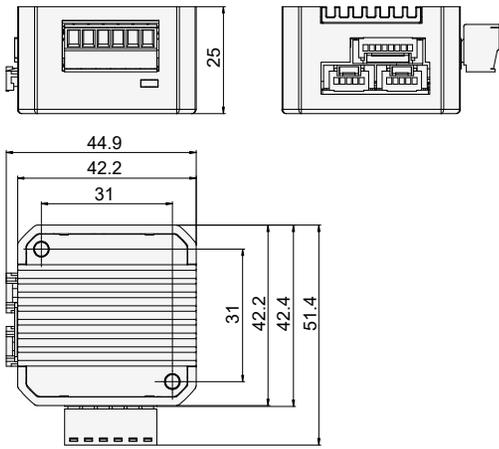


STF05-4XU-R

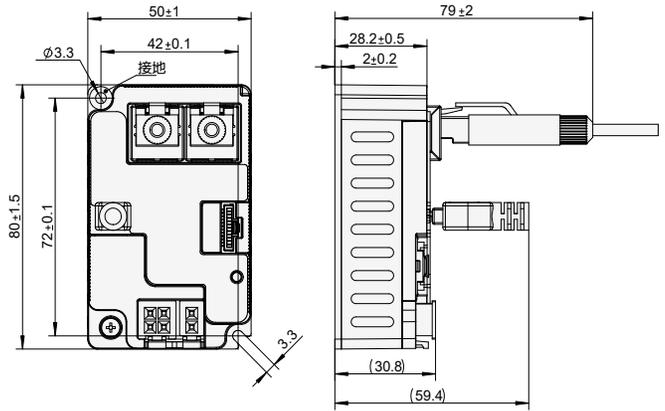


■ Standard Series

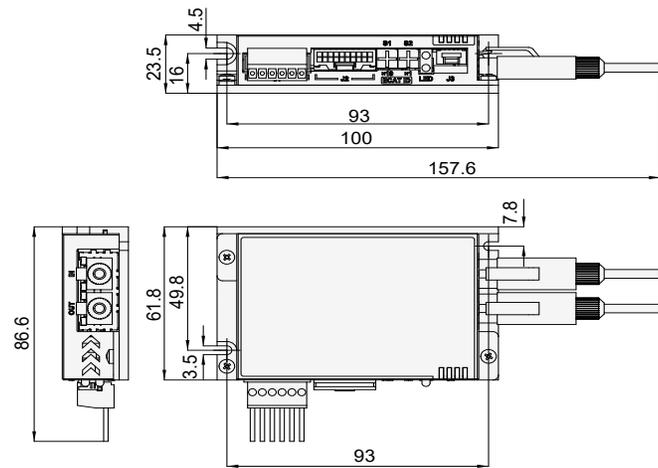
□ STF03-C-mini



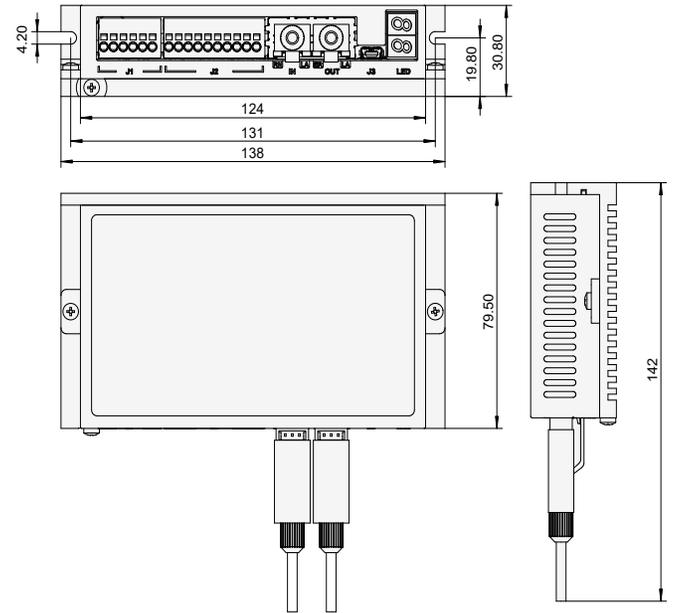
□ STF06-ECX-mini



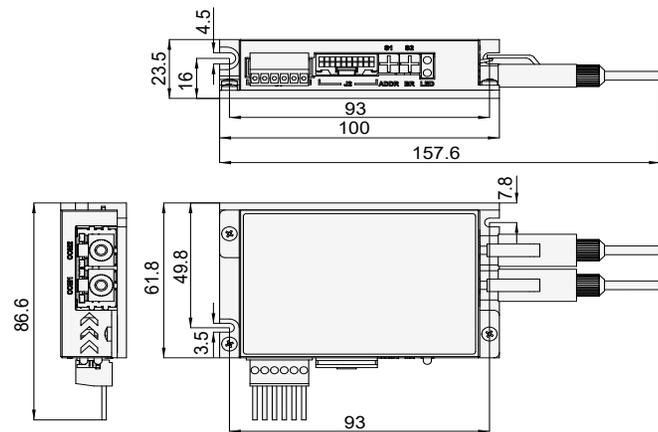
□ STF03/06-ECX



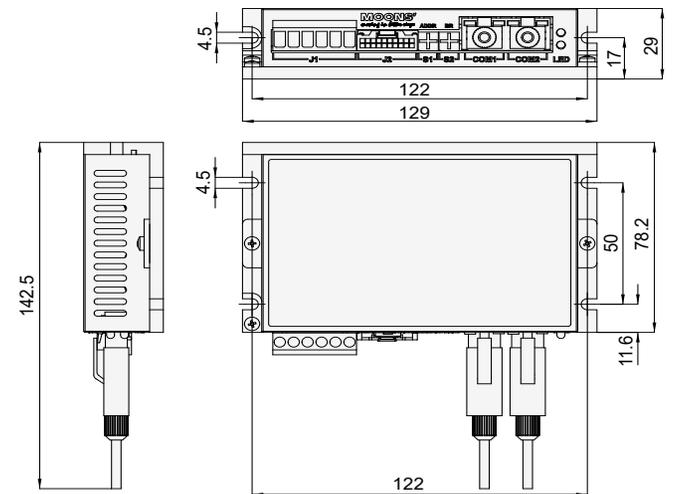
□ STF05/10-ECX-H



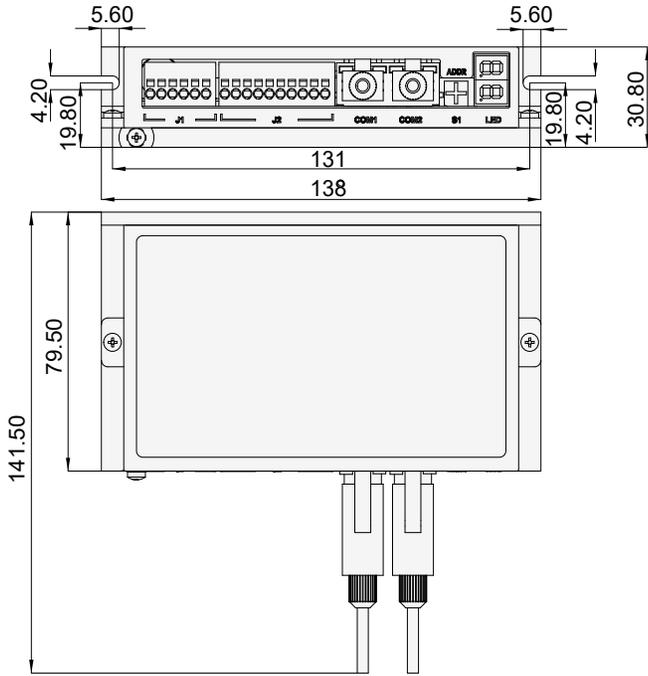
□ STF03/06-R, STF03/06-C



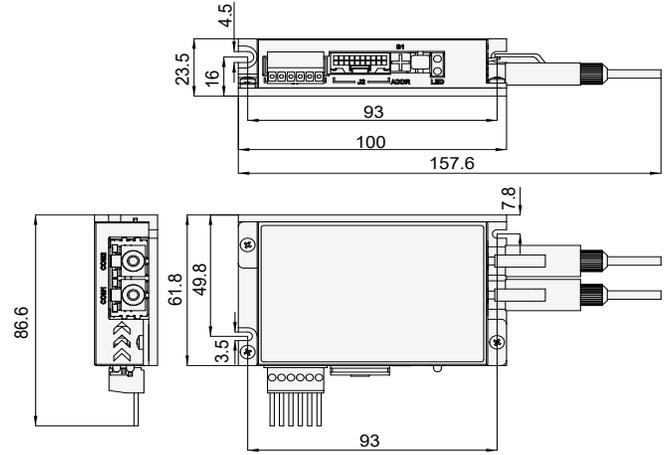
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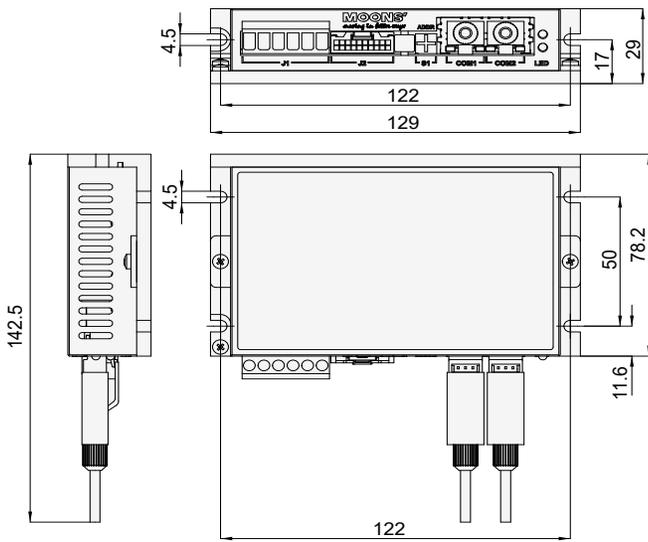
□ STF05/10-R-H



□ STF03/06-D, STF03/06-IP



□ STF05/10-D, STF05/10-IP



Recommended Motors

AM Series Step Motors

Standard type step motor

Model	Features	Lead Number	Length	Holding Torque	Drive Current Setting Range※	Rotor Inertia	Mass	Mass Dielectric Strength
			mm	N.m	A	g.cm ²	Kg	
AM6HY04A0-01N	Single Shaft	4	30	0.0058	0.1~0.4	5.8	0.03	500VAC / 1Minute
AM8HY2050-01N	Single Shaft	4	29.5	0.02	0.1~0.4	1.6	0.04	
AM8HY2050-02N	Double Shaft							
AM8HY4043-01N	Single Shaft	4	46.5	0.042	0.1~0.4	4.2	0.09	
AM8HY4043-02N	Double Shaft							
AM11HS1008-07	Single Shaft	4	31	0.072	0.1~1.4	9	0.1	
AM11HS3007-02	Single Shaft	4	40	0.082	0.1~1.4	12	0.15	
AM11HS50A0-01	Single Shaft	4	51	0.2	0.1~1.4	18		
AM14HS10A0-01	Single Shaft	4	27.3	0.14	0.1~1.4	12	0.15	
AM14HS10A0-02	Double Shaft							
AM14HS30A0-01	Single Shaft	4	36	0.23	0.1~1.4	20	0.21	
AM14HS30A0-02	Double Shaft							
AM14HS50A0-01	Single Shaft	4	55.5	0.4	0.1~1.4	35	0.24	
AM14HS50A0-02	Double Shaft							
AM17HD4452-02N	Single Shaft	4	34.3	0.285	0.1~2.1	38	0.23	
AM17HD4452-01N	Double Shaft							
AM17HD2438-02N	Single Shaft	4	39.8	0.46	0.1~2.1	57	0.28	
AM17HD2438-01N	Double Shaft							
AM17HD6426-06N	Single Shaft	4	48.3	0.59	0.1~2.1	82	0.36	
AM17HD6426-05N	Double Shaft							
AM17HDB410-01N	Single Shaft	4	62.8	0.85	0.1~1.9	123	0.6	
AM17HDB410-02N	Double Shaft							
AM17HD445B-01N	Single Shaft	4	36.1	0.34	0.1~2.8	38	0.23	
AM17HD445B-02N	Double Shaft							
AM17HD243B-01N	Single Shaft	4	41.6	0.47	0.1~2.8	57	0.28	
AM17HD243B-02N	Double Shaft							
AM17HD642B-01N	Single Shaft	4	50.1	0.64	0.1~2.8	82	0.36	
AM17HD642B-02N	Double Shaft							
AM17HDB41B-01N	Single Shaft	4	64.6	0.85	0.1~2.8	123	0.6	
AM17HDB41B-02N	Double Shaft							
AM23HS04A0-01	Single Shaft	4	39	0.82	0.1~2.5	105	0.4	
AM23HS04A0-02	Double Shaft							
AM23HS84A0-01	Single Shaft	4	55	1.5	0.1~2.5	215	0.6	
AM23HS84A0-02	Double Shaft							
AM23HSA4A0-01	Single Shaft	4	77	2.3	0.1~2.5	365	1	
AM23HSA4A0-02	Double Shaft							
AM23HS04B0-01	Single Shaft	4	39	0.82	0.1~5.2	105	0.4	
AM23HS04B0-02	Double Shaft							
AM23HS84B0-01	Single Shaft	4	55	1.5	0.1~5.2	215	0.6	
AM23HS84B0-02	Double Shaft							
AM23HSA4B0-01	Single Shaft	4	77	2.3	0.1~5.2	365	1	
AM23HSA4B0-02	Double Shaft							
AM23HS04B0-03	Single Shaft	4	39	0.82	0.1~5.2	105	0.4	
AM23HS04B0-04	Double Shaft							
AM23HS84B0-03	Single Shaft	4	55	1.5	0.1~5.2	215	0.6	
AM23HS84B0-04	Double Shaft							
AM23HSA4B0-03	Single Shaft	4	77	2.3	0.1~5.2	365	1	
AM23HSA4B0-04	Double Shaft							
AM24HS2402-08N	Single Shaft	4	54	1.57	0.1~5.6	450	0.83	
AM24HS2402-11N	Double Shaft							
AM24HS5401-10N	Single Shaft	4	85	3.2	0.1~5.6	900	1.4	
AM24HS5401-24N	Double Shaft							
AM34HD0404-08	Single Shaft	4	66.5	3.7	0.1~8.9	1100	1.6	
AM34HD0404-09	Double Shaft							
AM34HD1404-06	Single Shaft	4	96	6.7	0.1~8.9	1850	2.7	
AM34HD1404-07	Double Shaft							
AM34HD2403-07	Single Shaft	4	125.5	9.4	0.1~7.9	2750	3.8	
AM34HD2403-08	Double Shaft							
AM34HD3402-01	Single Shaft	4	156	11.5	0.1~7.9	4400	5.2	
AM34HD3402-02	Double Shaft							

AM34HM0404-S	Single Shaft	4	61	3.7	0.1~8.82	1300	1.6	500VAC / 1Minute
AM34HM0404-D	Double Shaft							
AM34HM1404-S	Single Shaft	4	91	6.4	0.1~8.82	1850	2.7	
AM34HM1404-D	Double Shaft							
AM34HM2403-S	Single Shaft	4	119	9.4	0.1~7.84	2750	3.8	
AM34HM2403-D	Double Shaft							
AM34HM3402-S	Single Shaft	4	147.5	11.5	0.1~7.84	5160	5.2	
AM34HM3402-D	Double Shaft							

※: The current value of the driver is the sinusoidal peak.

With brake type motor

Model	Features	Lead Number	Length	Holding Torque	Drive Current Setting Range※	Rotor Inertia	Mass	Mass Dielectric Strength
			mm	N.m	A	g.cm ²	Kg	
AM17HD4452-BR01	Brake Motor	4+2	60.3	0.285	0.1~2.1	38	0.38	500VAC / 1Minute
AM17HD2438-BR01	Brake Motor	4+2	65.8	0.46	0.1~2.1	57	0.43	
AM17HD6426-BR01	Brake Motor	4+2	74.3	0.59	0.1~2.1	82	0.51	
AM17HDB410-BR01	Brake Motor	4+2	88.8	0.85	0.1~1.9	123	0.75	
AM23HS04B0-BR01	Brake Motor	4+2	80	0.82	0.1~5.2	105	1.5	
AM23HS84B0-BR01	Brake Motor	4+2	96	1.5	0.1~5.2	215	1.5	
AM23HSA4B0-BR01	Brake Motor	4+2	118	2.3	0.1~5.2	365	1.5	
AM24HS2402-BR01	Brake Motor	4+2	95	1.57	0.1~5.6	450	1.03	
AM24HS5401-BR01	Brake Motor	4+2	126	3.2	0.1~5.6	900	1.6	
AM34HD0404-BR01	Brake Motor	4+2	118.5	3.7	0.1~8.9	1100	2.2	
AM34HD1404-BR01	Brake Motor	4+2	148	6.7	0.1~8.9	1850	3.3	
AM34HD2403-BR01	Brake Motor	4+2	177.5	9.4	0.1~7.9	2750	4.4	

※: The current value of the driver is the sinusoidal peak.

Encoder type motor

Model	Features	Lead Number	Length	Holding Torque	Drive Current Setting Range※	Rotor Inertia	Mass	Mass Dielectric Strength
			mm	N.m	A	g.cm ²	Kg	
AM17HD4452-F1000D	External Encoder Motor	4	34.3	0.285	0.1~2.1	38	0.24	500VAC / 1Minute
AM17HD2438-F1000D	External Encoder Motor	4	39.8	0.46	0.1~2.1	57	0.29	
AM17HD6426-F1000D	External Encoder Motor	4	48.3	0.59	0.1~2.1	82	0.37	
AM17HDB410-F1000D	External Encoder Motor	4	62.8	0.85	0.1~1.9	123	0.61	
AM23HS04A0-F1000D	External Encoder Motor	4	39	0.82	0.1~2.5	105	0.41	
AM23HS84A0-F1000D	External Encoder Motor	4	55	1.5	0.1~2.5	215	0.61	
AM23HSA4A0-F1000D	External Encoder Motor	4	77	2.3	0.1~2.5	365	1.01	
AM23HS04B0-F1000D	External Encoder Motor	4	39	0.82	0.1~5.2	105	0.41	
AM23HS84B0-F1000D	External Encoder Motor	4	55	1.4	0.1~5.2	215	0.61	
AM23HSA4B0-F1000D	External Encoder Motor	4	77	2.3	0.1~5.2	365	1.01	
AM24HS2402-F1000D	External Encoder Motor	4	54.0	1.57	0.1~5.6	450	0.84	
AM24HS5401-F1000D	External Encoder Motor	4	85.0	3.2	0.1~5.6	900	1.41	
AM34HD0404-F1000D	External Encoder Motor	4	66.5	3.7	0.1~8.9	1100	1.61	
AM34HD1404-F1000D	External Encoder Motor	4	96.0	6.7	0.1~8.9	1850	2.71	
AM34HD2403-F1000D	External Encoder Motor	4	125.5	9.4	0.1~7.9	2750	3.81	
AM34HD3402-F1000D	External Encoder Motor	4	156	11.5	0.1~7.9	4400	5.21	

※: The current value of the driver is the sinusoidal peak

Gearbox type motor

Model	Features	Lead Number	Length	Holding Torque	Drive Current Setting Range※	Rotor Inertia	Mass	Mass Dielectric Strength
			mm	N.m	A	g.cm ²	Kg	
AM17HD4452-PG05	5 speed reducer motor	4	101.8	1.25	0.1~2.1	950	0.55	500VAC / 1Minute
AM17HD4452-PG10	10 speed reducer motor	4	101.8	2.5	0.1~2.1	3800	0.55	
AM17HD4452-PG20	20 speed reducer motor	4	114.8	5	0.1~2.1	15200	0.63	
AM17HD2438-PG05	5 speed reducer motor	4	107.3	2	0.1~2.1	1425	0.6	
AM17HD2438-PG10	10 speed reducer motor	4	107.3	4	0.1~2.1	5700	0.6	
AM17HD2438-PG20	20 speed reducer motor	4	120.3	8	0.1~2.1	22800	0.68	
AM17HD6426-PG05	5 speed reducer motor	4	115.8	2.5	0.1~2.1	2050	0.68	
AM17HD6426-PG10	10 speed reducer motor	4	115.8	5	0.1~2.1	8200	0.68	
AM17HD6426-PG20	20 speed reducer motor	4	128.8	10	0.1~2.1	32800	0.76	
AM17HDB410-PG05	5 speed reducer motor	4	130.3	4.25	0.1~1.9	3075	0.92	
AM17HDB410-PG10	10 speed reducer motor	4	130.3	8.5	0.1~1.9	12300	0.92	
AM17HDB410-PG20	20 speed reducer motor	4	143.3	17	0.1~1.9	49200	1	
AM23HS04B0-PG05	5 speed reducer motor	4	112.5	4.1	0.1~5.2	2625	1.23	
AM23HS04B0-PG10	10 speed reducer motor	4	112.5	8.2	0.1~5.2	10500	1.23	
AM23HS04B0-PG20	20 speed reducer motor	4	125.5	16.4	0.1~5.2	42000	1.44	
AM23HS84B0-PG05	5 speed reducer motor	4	128.5	7.5	0.1~5.2	5375	1.43	
AM23HS84B0-PG10	10 speed reducer motor	4	128.5	15	0.1~5.2	21500	1.43	
AM23HS84B0-PG20	20 speed reducer motor	4	141.5	30	0.1~5.2	86000	1.64	
AM23HSA4B0-PG05	5 speed reducer motor	4	150.5	11.5	0.1~5.2	9125	1.83	
AM23HSA4B0-PG10	10 speed reducer motor	4	150.5	23	0.1~5.2	36500	1.83	
AM23HSA4B0-PG20	20 speed reducer motor	4	163.5	46	0.1~5.2	146000	2.07	
AM24HS2402-PG05	5 speed reducer motor	4	127.5	6	0.1~5.6	11250	1.66	
AM24HS2402-PG10	10 speed reducer motor	4	127.5	12	0.1~5.6	45000	1.66	
AM24HS2402-PG20	20 speed reducer motor	4	140.5	24	0.1~5.6	180000	1.87	
AM24HS5401-PG05	5 speed reducer motor	4	158.5	12.5	0.1~5.6	22500	2.23	
AM24HS5401-PG10	10 speed reducer motor	4	158.5	25	0.1~5.6	90000	2.23	
AM24HS5401-PG20	20 speed reducer motor	4	171.5	50	0.1~5.6	360000	2.44	
AM34HD0404-PG05	5 speed reducer motor	4	170.5	15	0.1~8.9	27500	3.71	
AM34HD0404-PG10	10 speed reducer motor	4	170.5	30	0.1~8.9	110000	3.71	
AM34HD0404-PG20	20 speed reducer motor	4	188.5	60	0.1~8.9	440000	4.21	
AM34HD1404-PG05	5 speed reducer motor	4	200	25	0.1~8.9	46250	4.81	
AM34HD1404-PG10	10 speed reducer motor	4	200	50	0.1~8.9	185000	4.81	
AM34HD1404-PG20	20 speed reducer motor	4	218	100	0.1~8.9	740000	5.31	
AM34HD2403-PG05	5 speed reducer motor	4	229.5	35.5	0.1~7.9	68750	5.91	
AM34HD2403-PG10	10 speed reducer motor	4	229.5	71	0.1~7.9	275000	5.91	
AM34HD2403-PG20	20 speed reducer motor	4	247.5	142	0.1~7.9	1100000	6.41	

※: The current value of the driver is the sinusoidal peak.

F1000D Encode Electrical Specification

Resolution	1000 Line
Supply Current (no load)	5V±10%
Output mode	A/B/Z differential output
Speed Range	3600rpm

A leads B for clockwise shaft rotation, and B leads A for counterclockwise rotation viewed from direction H

Mating Connectors

Housing: NSHR-08V-S (JST)

Crimp: SSSL-003T-P0.2 (JST)

F1000D Cables Specification

Pin	7	5	3	1
Signal	Z+	B+	A+	5V
Pin	8	6	4	2
Signal	Z-	B-	A-	GND

Accessories(Sold Separately)

General encoder Cable

P/N: 1144-0100 Length: 1m

P/N: 1144-0300 Length: 3m

P/N: 1144-0500 Length: 5m

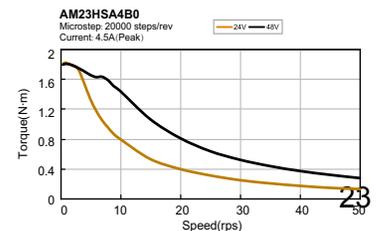
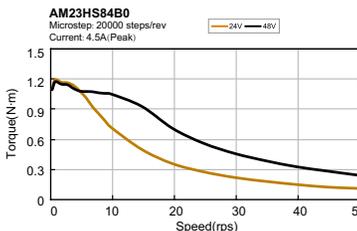
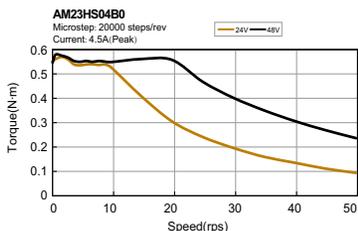
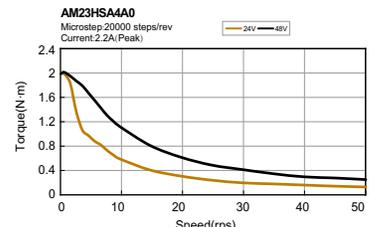
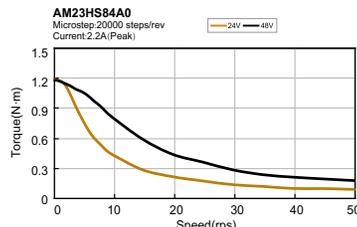
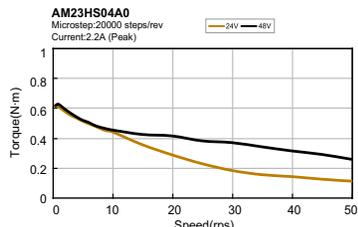
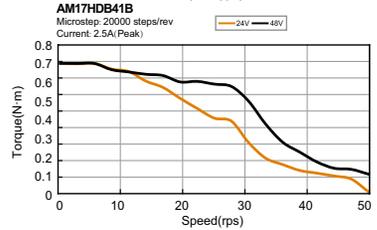
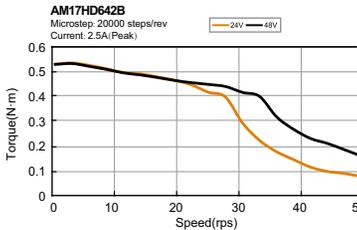
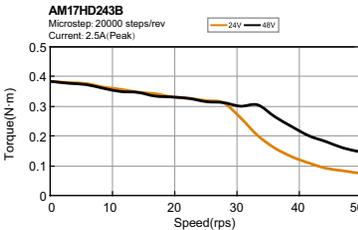
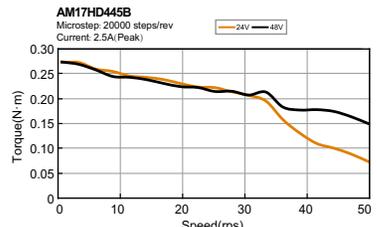
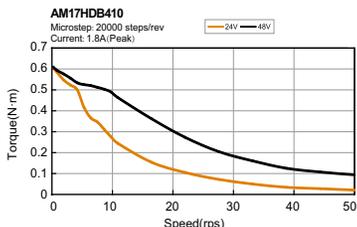
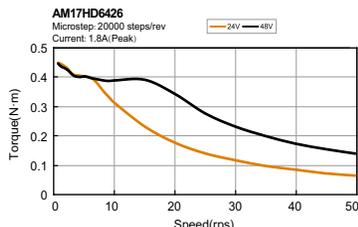
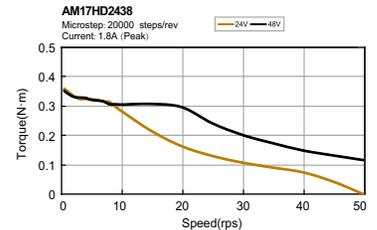
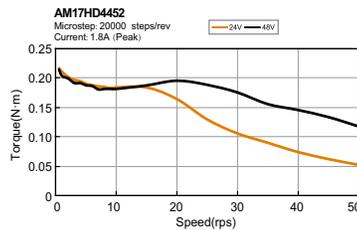
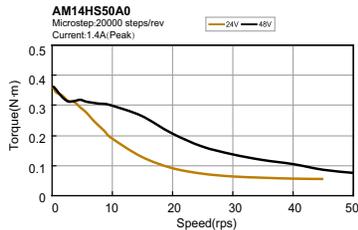
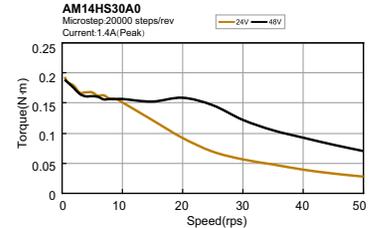
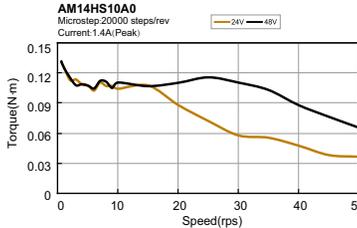
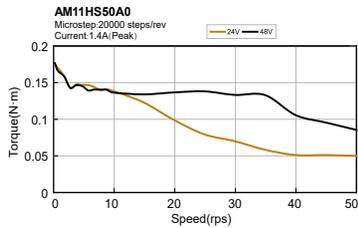
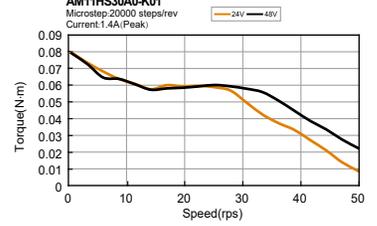
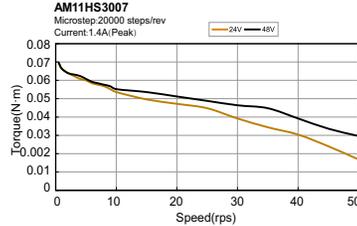
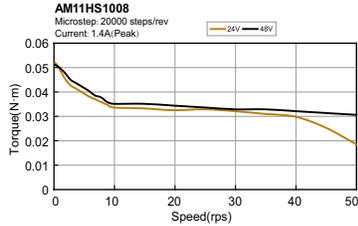
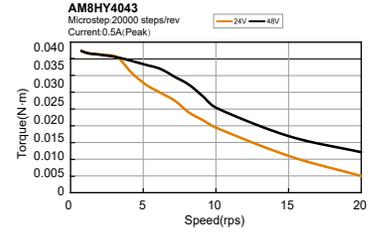
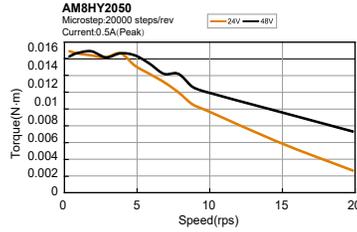
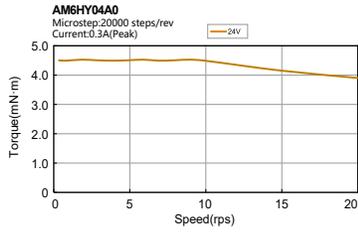
Encoder cable used with MOONS'drive

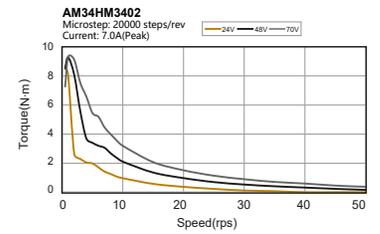
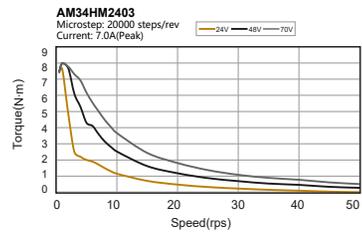
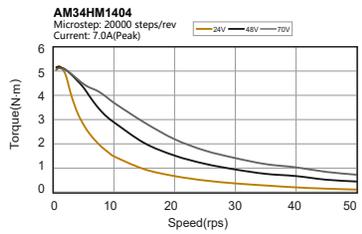
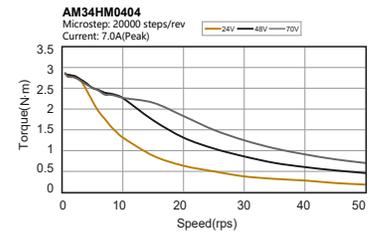
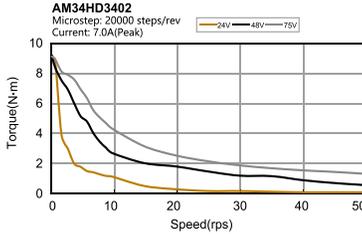
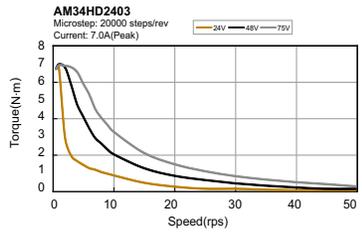
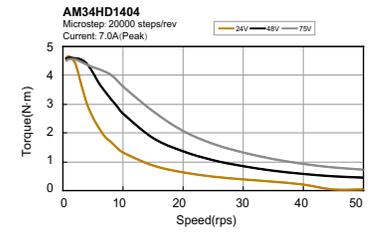
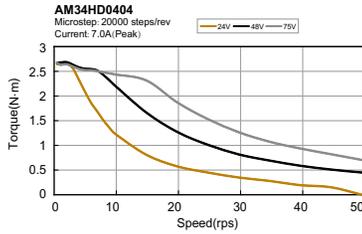
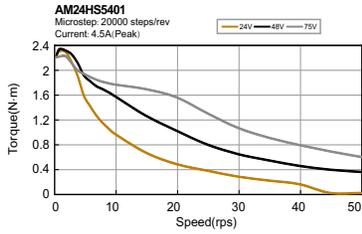
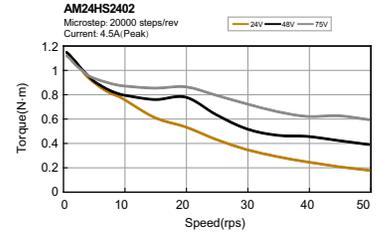
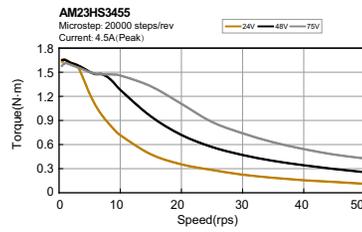
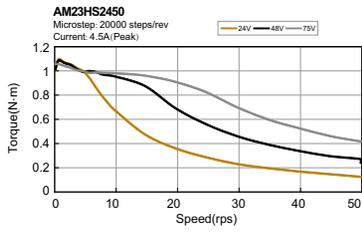
P/N: 2140-0100 Length: 1m

P/N: 2140-0300 Length: 3m

P/N: 2140-0500 Length: 5m

AM Series Torque Curves





■ AW Series Stepper Motors (IP65 Protection Type)

□ Standard Industrial Protective Stepper Motors

Model	Features	Lead Number	Length	Holding Torque	Drive Current Setting Range※	Rotor Inertia	Mass	Mass Dielectric Strength
			mm	N.m	A	g.cm ²	Kg	
AW171NNA	IP65	4	60.7	0.31	0.1~2.1	38	0.38	500VAC / 1Minute
AW173NNA	IP65	4	74.7	0.63	0.1~2.1	82	0.51	
AW174NNA	IP65	4	88.8	0.85	0.1~2.1	123	0.75	
AW231NNA	IP65	4	65.4	0.6	0.1~5.6	135	0.67	
AW232NNA	IP65	4	77.7	1.2	0.1~5.6	260	0.85	
AW233NNA	IP65	4	101.7	2	0.1~5.6	460	1.25	
AW231NNK	IP65	4	65.4	0.6	0.1~5.6	135	0.67	
AW232NNK	IP65	4	77.7	1.2	0.1~5.6	260	0.85	
AW233NNK	IP65	4	101.7	2	0.1~5.6	460	1.25	
AW243NNA	IP65	4	115.5	3.1	0.1~7.0	900	1.7	
AW243NNK	IP65	4	115.5	3.1	0.1~7.0	900	1.7	
AW341NNA	IP65	4	96.4	3.8	0.1~14	1100	2.3	
AW343NNA	IP65	4	125.9	7.2	0.1~14	2260	3.5	
AW345NNA	IP65	4	155.2	10.3	0.1~14	2750	4.5	
AW341NNK	IP65	4	96.4	3.8	0.1~14	1100	2.3	
AW343NNK	IP65	4	125.9	7.2	0.1~14	2260	3.5	
AW345NNK	IP65	4	155.2	10.3	0.1~14	2750	4.5	

※: The current value of the driver is the sinusoidal peak.

□ Industrial Protective Stepper Motors with Encoder

Model	Features	Lead Number	Length	Holding Torque	Drive Current Setting Range※	Rotor Inertia	Mass	Mass Dielectric Strength
			mm	N.m	A	g.cm ²	Kg	
AW171NEA	IP65+Encoder	4+8	58.3	0.31	0.1~2.1	38	0.43	500VAC / 1Minute
AW173NEA	IP65+Encoder	4+8	72.3	0.63	0.1~2.1	82	0.56	
AW174NEA	IP65+Encoder	4+8	86.4	0.85	0.1~2.1	123	0.8	
AW231NEA	IP65+Encoder	4+8	76	0.6	0.1~5.6	135	0.82	
AW232NEA	IP65+Encoder	4+8	88.7	1.2	0.1~5.6	260	1	
AW233NEA	IP65+Encoder	4+8	112.7	2	0.1~5.6	460	1.4	
AW231NEK	IP65+Encoder	4+8	76	0.6	0.1~5.6	135	0.82	
AW232NEK	IP65+Encoder	4+8	88.7	1.2	0.1~5.6	260	1	
AW233NEK	IP65+Encoder	4+8	112.7	2	0.1~5.6	460	1.4	
AW243NEA	IP65+Encoder	4+8	126.5	3.1	0.1~7.0	900	1.9	
AW243NEK	IP65+Encoder	4+8	126.5	3.1	0.1~7.0	900	1.9	
AW341NEA	IP65+Encoder	4+8	106.7	3.8	0.1~14	1100	2.5	
AW343NEA	IP65+Encoder	4+8	136.2	7.2	0.1~14	2260	3.7	
AW345NEA	IP65+Encoder	4+8	165.5	10.3	0.1~14	2750	4.7	
AW341NEK	IP65+Encoder	4+8	106.7	3.8	0.1~14	1100	2.5	
AW343NEK	IP65+Encoder	4+8	136.2	7.2	0.1~14	2260	3.7	
AW345NEK	IP65+Encoder	4+8	165.5	10.3	0.1~14	2750	4.7	

※: The current value of the driver is the sinusoidal peak.

□ Industrial Protective Stepper Motors with Brake

Model	Features	Lead Number	Length	Holding Torque	Drive Current Setting Range※	Rotor Inertia	Mass	Mass Dielectric Strength
			mm	N.m	A	g.cm ²	Kg	
AW171BNA	IP65+Brake	4+3	68.1	0.31	0.1~2.1	38	0.73	500VAC / 1Minute
AW173BNA	IP65+Brake	4+3	82.1	0.63	0.1~2.1	82	0.86	
AW174BNA	IP65+Brake	4+3	96.2	0.85	0.1~2.1	123	1.1	
AW231BNA	IP65+Brake	4+3	76	0.6	0.1~5.6	135	1.12	
AW232BNA	IP65+Brake	4+3	88.7	1.2	0.1~5.6	260	1.3	
AW233BNA	IP65+Brake	4+3	112.7	2	0.1~5.6	460	1.7	
AW231BNK	IP65+Brake	4+3	76	0.6	0.1~5.6	135	1.12	
AW232BNK	IP65+Brake	4+3	88.7	1.2	0.1~5.6	260	1.3	
AW233BNK	IP65+Brake	4+3	112.7	2	0.1~5.6	460	1.7	
AW243BNA	IP65+Brake	4+3	126.5	3.1	0.1~7.0	900	2.2	
AW243BNK	IP65+Brake	4+3	126.5	3.1	0.1~7.0	900	2.2	
AW341BNA	IP65+Brake	4+3	106.7	3.8	0.1~14	1100	2.8	
AW343BNA	IP65+Brake	4+3	136.2	7.2	0.1~14	2260	4	
AW345BNA	IP65+Brake	4+3	165.5	10.3	0.1~14	2750	5	
AW341BNK	IP65+Brake	4+3	106.7	3.8	0.1~14	1100	2.8	
AW343BNK	IP65+Brake	4+3	136.2	7.2	0.1~14	2260	4	
AW345BNK	IP65+Brake	4+3	165.5	10.3	0.1~14	2750	5	

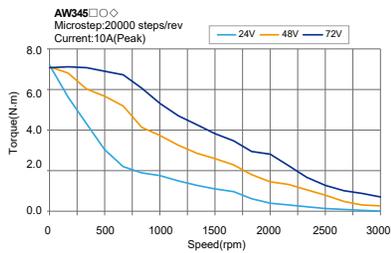
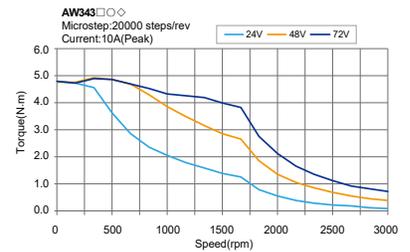
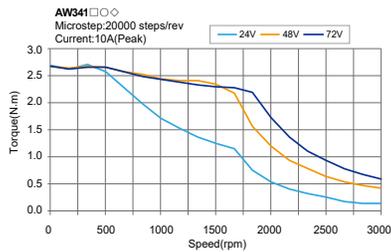
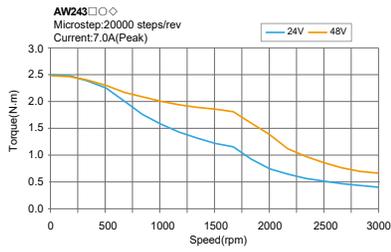
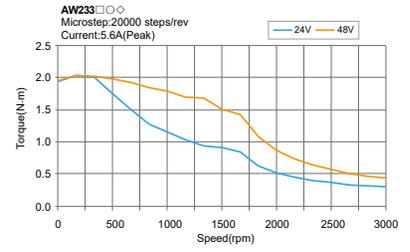
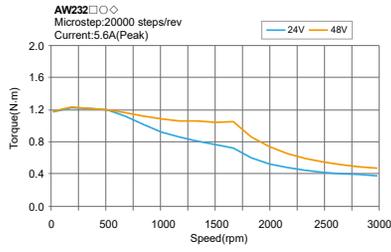
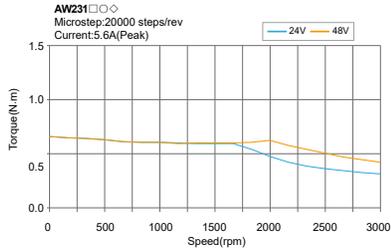
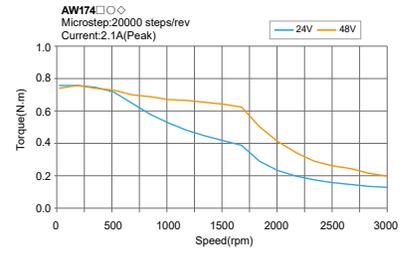
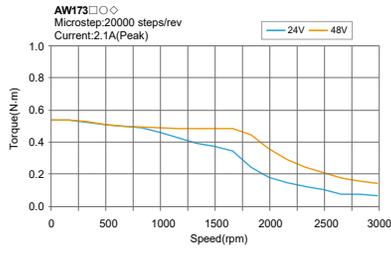
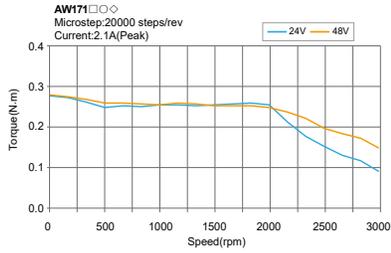
※: The current value of the driver is the sinusoidal peak.

□ Industrial Protective Stepper Motors with Encoder and Brake

Model	Features	Lead Number	Length	Holding Torque	Drive Current Setting Range※	Rotor Inertia	Mass	Mass Dielectric Strength
			mm	N.m	A	g.cm ²	Kg	
AW171BEA	IP65+Encoder+Brake	4+8+3	88.1	0.31	0.1~2.1	38	0.93	500VAC / 1Minute
AW173BEA	IP65+Encoder+Brake	4+8+3	102.1	0.63	0.1~2.1	82	1.06	
AW174BEA	IP65+Encoder+Brake	4+8+3	116.2	0.85	0.1~2.1	123	1.3	
AW231BEA	IP65+Encoder+Brake	4+8+3	92.5	0.6	0.1~5.6	135	1.52	
AW232BEA	IP65+Encoder+Brake	4+8+3	104.8	1.2	0.1~5.6	260	1.7	
AW233BEA	IP65+Encoder+Brake	4+8+3	128.8	2	0.1~5.6	460	2.1	
AW231BEK	IP65+Encoder+Brake	4+8+3	92.5	0.6	0.1~5.6	135	1.52	
AW232BEK	IP65+Encoder+Brake	4+8+3	104.8	1.2	0.1~5.6	260	1.7	
AW233BEK	IP65+Encoder+Brake	4+8+3	128.8	2	0.1~5.6	460	2.1	
AW243BEA	IP65+Encoder+Brake	4+8+3	142.6	3.1	0.1~7.0	900	2.7	
AW243BEK	IP65+Encoder+Brake	4+8+3	142.6	3.1	0.1~7.0	900	2.7	
AW341BEA	IP65+Encoder+Brake	4+8+3	127.8	3.8	0.1~14	1100	3.7	
AW343BEA	IP65+Encoder+Brake	4+8+3	157.3	7.2	0.1~14	2260	4.9	
AW345BEA	IP65+Encoder+Brake	4+8+3	186.6	10.3	0.1~14	2750	5.9	
AW341BEK	IP65+Encoder+Brake	4+8+3	127.8	3.8	0.1~14	1100	3.7	
AW343BEK	IP65+Encoder+Brake	4+8+3	157.3	7.2	0.1~14	2260	4.9	
AW345BEK	IP65+Encoder+Brake	4+8+3	186.6	10.3	0.1~14	2750	5.9	

※: The current value of the driver is the sinusoidal peak.

AW Series Torque Curves



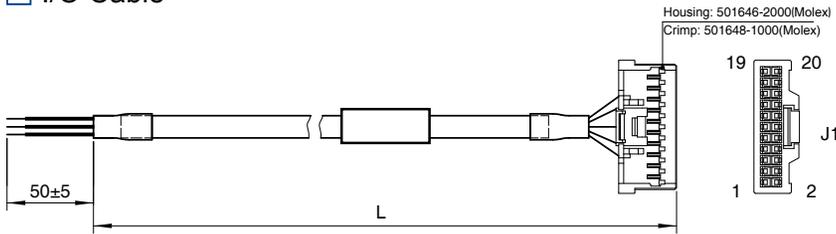
NOTE:

- : Brake Options, B=With Brake, N=No Brake
- : Encoder Options, E=With Encoder, N=No Encoder
- ◇: Shaft Options, A=Flat, K=Key

- The torque curves listed above are based on measurement data obtained under our laboratory conditions. Data may vary if test conditions change.
- Motors may exhibit significant heat generation under different operating environments and driving configurations. Operate within an ambient temperature range of -20°C to +50°C.
- Ensure the drive's set current remains below the motor's rated current. Additionally, reducing the current under the premise of meeting torque requirements can effectively minimize motor self-heating.

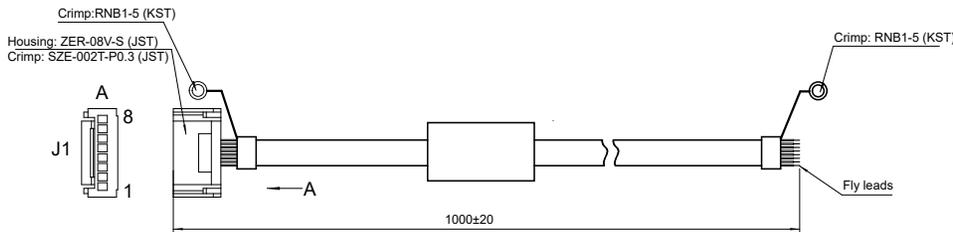
Accessories (Sold Separately)

I/O Cable



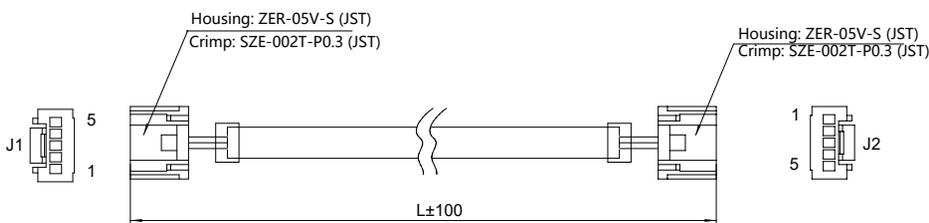
P/N	Length(L)	Pin No.	Assignment	Description	Color	Pin No.	Assignment	Description	Color
1015-030	0.3m	1	X1+	X1 Digital Input	Blue/White	11	X7	X7 Digital Input	Yellow
1015-100	1m	2	X1-		Blue/Black	12	X8	X8 Digital Input	Green
1015-200	2m	3	X2+	X2 Digital Input	Green/White	13	SHIELD	Shield	-
		4	X2-		Green/Black	14	XCOM	X5-X8 Digital Input COM	Red
		5	X3+	X3 Digital Input	Yellow/White	15	Y1	Y1 Digital Output	Brown
		6	X3-		Yellow/Black	16	Y2	Y2 Digital Output	Gray
		7	X4+	X4 Digital Input	Orange/White	17	Y3	Y3 Digital Output	White
		8	X4-		Orange/Black	18	YCOM	Y1-Y3 Digital Output COM	Black
		9	X5	X5 Digital Input	Blue	19	Y4+	Y4 Digital Output	Purple/White
		10	X6	X6 Digital Input	Purple	20	Y4-		Purple/Black

I/O Cable (For STF03-C-mini only)



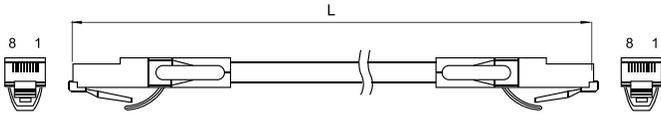
P/N	Length(L)	Pin No.	Assignment	Color
1023-0100	1m	1	GND	Black
		2	+5V	Red
		3	Brake-	Orange
		4	Brake+	Yellow
		5	CCW-	Green
		6	CCW+	Blue
		7	CW-	Purple
		8	CW+	Brown

CANopen Daisy Chain Extended cable



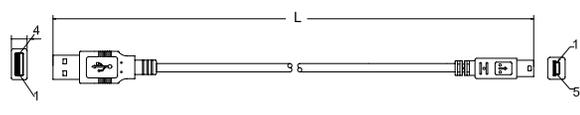
P/N	Length(L)	Pin No. (J1)	Color	Pin No. (J2)	Color
2112-025	0.25m	1	Black	1	Black
2112-050	0.5m	2	Brown	2	Brown
2112-100	1m	3	Red (CAN_H)	3	Red (CAN_H)
2112-300	3m	4	Orange (CAN_L)	4	Orange (CAN_L)
		5	Yellow (GND)	5	Yellow (GND)

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

USB mini-B Configuration Cable



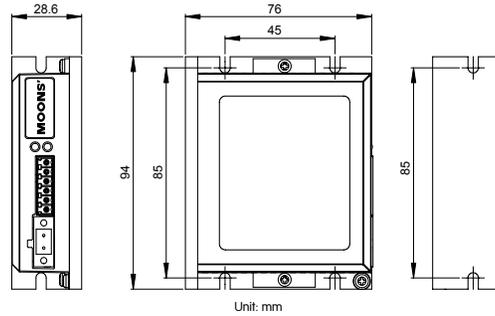
Model	Length(L)
2620-150	1.5m

Regeneration

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-RS485-01
Description: USB-RS485 Converter



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



Appendix: UL Model

Model	UL Model	Current	Voltage	Multi-functional Capability						
				Modbus/RTU	CANopen	Modbus/TCP	EtherNet/IP	EtherCAT	Profinet	Q Program
STF05-4X-ECX	STF05-4X-ECX-FC	0.1-5.0 A ※	24-60 VDC					✓		
STF10-4X-ECX	STF10-4X-ECX-FC	0.1-10.0 A ※	24-60 VDC					✓		
STF05-4X-ECX-S *	STF05-4X-ECX-S-FC *	0.1-5.0 A ※	24-60 VDC					✓		
STF10-4X-ECX-S *	STF10-4X-ECX-S-FC *	0.1-10.0 A ※	24-60 VDC					✓		
STF05-2XU-ECX	STF05-2XU-ECX-FC	0.1-5.0 A ※	24-60 VDC					✓		
STF10-2XU-ECX	STF10-2XU-ECX-FC	0.1-10.0 A ※	24-60 VDC					✓		
STF05-2XU-ECX-S *	STF05-2XU-ECX-S-FC *	0.1-5.0 A ※	24-60 VDC					✓		
STF10-2XU-ECX-S *	STF10-2XU-ECX-S-FC *	0.1-10.0 A ※	24-60 VDC					✓		
STF05-4XU-ECX	STF05-4XU-ECX-FC	0.1-5.0 A ※	24-60 VDC					✓		
STF10-4XU-ECX	STF10-4XU-ECX-FC	0.1-10.0 A ※	24-60 VDC					✓		
STF05-4XU-ECX-S *	STF05-4XU-ECX-S-FC *	0.1-5.0 A ※	24-60 VDC					✓		
STF10-4XU-ECX-S *	STF10-4XU-ECX-S-FC *	0.1-10.0 A ※	24-60 VDC					✓		
STF05-ECX-H	STF05-ECX-H-FC	0.1-5.0 A	24-48 VDC					✓		✓
STF10-ECX-H	STF10-ECX-H-FC	0.1-10.0 A	24-60 VDC					✓		✓
STF05-R-H	STF05-R-H-FC	0.1-5.0 A	24-48 VDC	✓						✓
STF10-R-H	STF10-R-H-FC	0.1-10.0 A	24-60 VDC	✓						✓
STF05-R	STF05-R-FC	0.1-5.0 A	24-48 VDC	✓						✓
STF10-R	STF10-R-FC	0.1-10.0 A	24-60 VDC	✓						✓
STF05-C	STF05-C-FC	0.1-5.0 A	24-48 VDC		✓					✓
STF10-C	STF10-C-FC	0.1-10.0 A	24-60 VDC		✓					✓
STF05-D	STF05-D-FC	0.1-5.0 A	24-48 VDC			✓				✓
STF10-D	STF10-D-FC	0.1-10.0 A	24-60 VDC			✓				✓
STF05-IP	STF05-IP-FC	0.1-5.0 A	24-48 VDC			✓	✓			✓
STF10-IP	STF10-IP-FC	0.1-10.0 A	24-60 VDC			✓	✓			✓
STF05-PN-01	STF05-PN-FC	0.1-5.0 A	24-48 VDC						✓	✓
STF10-PN-01	STF10-PN-FC	0.1-10.0 A	24-60 VDC						✓	✓

※: STF05-2XU continuous 2*5A; STF10-2X continuous 2*10A. STF05-4X/4XU continuous 4*5A; STF10-4X continuous 4*10A.

*: STO Model



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