MOONS'
moving in better ways

STF

SCL Modbus CANopen eSCL EtherNet/IP EtherCAT Conformance tested

Intelligent field bus control stepper drive

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, CANopen eSCL, EtherNet/IP or EtherCAT in real time. Motion profiles can also be programmed and stored in drives(Q Program) and then be triggered by fieldbus commands.

The drives support RS-485/422, CANopen or Ethernet communication.

- Compact size
- Advanced current control
- 8 digital inputs, 4 digital outputs
- Communication off-line Protection
- Anti resonance
- Torque ripple smoothing
- RJ45 Communication Port
- On-line configuration by Fieldbus

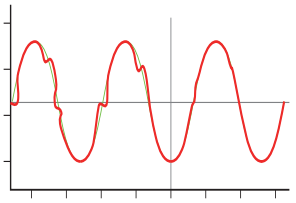
CE RoHS Compliant

www.moonsindustries.com

Feature

Anti-Resonance

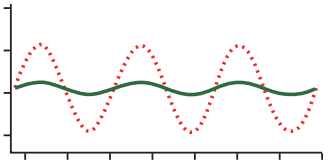
Step motor systems have a natural tendency to resonate at certain speeds. The STF drives automatically calculate the system's natural frequency and apply damping to the control algorithm. This greatly improves midrange stability, allows higher speeds and greater torque utilization, and also improves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



Provides better motor performance and higher speeds

Torque Ripple Smoothing

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.

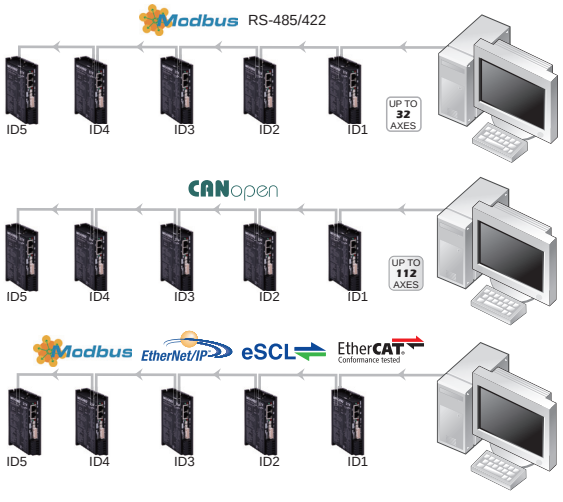


Produces smoother motion at low speeds

Auto Setup & Self Test

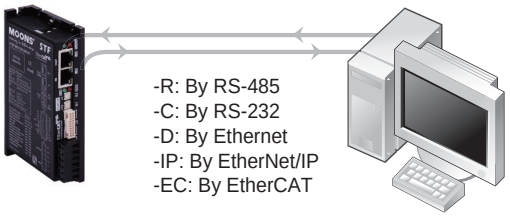
At start-up the drive measures motor parameters, including the resistance and inductance, then uses this information to optimize the system performance. The drive can also detect open and short circuits.

Host Control



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

Stand-Alone Programmable



-R: By RS-485
-C: By RS-232
-D: By Ethernet
-IP: By EtherNet/IP
-EC: By EtherCAT

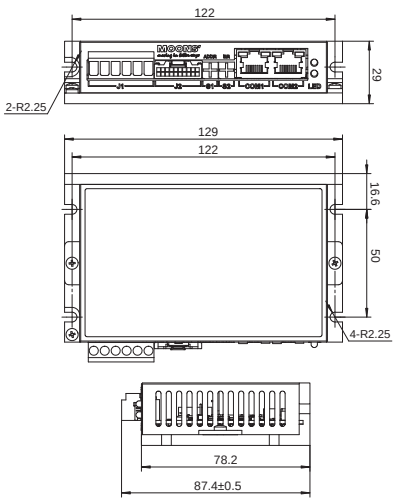
- Stored program execution
- Multi-tasking
- Conditional processing
- Math functions
- Data registers

Specifications

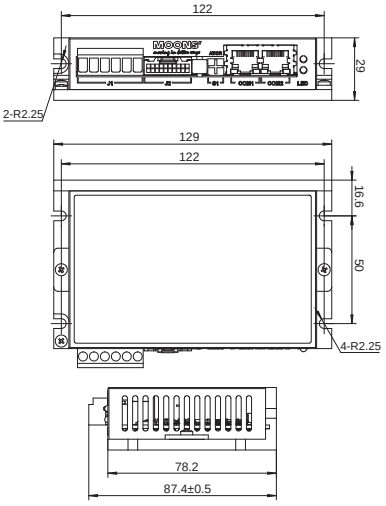
Power Amplifier	
Amplifier Type	Dual H-Bridge, 4 Quadrant
Current Control	PWM at 20 KHz
Output Current	STF03: 0.1 - 3.0A/phase (peak-of-sine) in 0.01 amp increments
	STF05: 0.1 - 5.0A/phase (peak-of-sine) in 0.01 amp increments
	STF06: 0.1 - 6.0A/phase (peak-of-sine) in 0.01 amp increments
	STF10: 0.1 - 10.0A/phase (peak-of-sine) in 0.01 amp increments
Voltage Range	STF03: 12 - 48VDC
	STF05: 24 - 48VDC
	STF06: 12 - 48VDC
	STF10: 24 - 70VDC
Input Voltage Range	STF03: 10 - 53VDC
	STF05: 18 - 53VDC
	STF06: 10 - 53VDC
	STF10: 18 - 75VDC
Protection	Over-voltage, under-voltage, over-temp, over-current
Idle Current Reduction	Reduction range of 0 - 90% of running current after a delay selectable in milliseconds
Controller	
Anti-Resonance	Raises the system-damping ratio to eliminate midrange instability and allow stable operation throughout the speed range of the motor
Torque Ripple Smoothing	Allows for fine adjustment of phase current waveform harmonic content to reduce low-speed torque ripple in the range of 0.25 to 1.5 rps
Auto Test & Auto Setup	Auto test and setup at power on (ie. motor resistance, and capacitance) to optimize your system performance.
Non-Volatile Storage	Configurations are saved in FLASH memory on-board the DSP
Operation Mode	-R Type: SCL, Q, Modbus/RTU
	-C Type: CANopen (CiA301 and CiA402 standard). Q program can also be triggered via CANopen Command
	-D Type: eSCL, Q, Modbus/TCP
	-IP Type: EtherNet/IP, Q program can also be triggered via EtherNet/IP Command
	-EC Type: EtherCAT (CoE) with full support of CiA402, Support PP, PV, CSP&HM mode,and MOONS' own Q mode
Digital Input	8 digital inputs
	X1, X2: Optically isolated, differential, 5-24VDC for high level voltage, minimum pulse width = 250ns, maximum pulse frequency = 2MHz
	X3, X4: Optically isolated, differential, 5-24VDC for high level voltage, minimum pulse width = 100μs, maximum pulse frequency = 5KHz
	X5 ~ X8: Optically isolated, single-ended, 5-24VDC for high level voltage, minimum pulse width = 100μs, maximum pulse frequency = 5KHz
Digital Output	4 digital outputs Y1 ~ Y4: Optically isolated, maximum voltage 30V, maximum sinking or sourcing current 100mA
Communication Port	-R Type: Dual port RS-485 (RJ45 connector)
	-C Type: Dual port CANopen (RJ45 connector) RS-232 included
	-D Type: Dual port Ethernet (RJ45 connector)
	-IP Type: Dual port Ethernet (RJ45 connector)
	-EC Type: Dual port Ethernet(RJ45 connector)and RS-232(RS-232 serial port for configuration)
Physical	
Ambient Temperature	0 - 40°C when mounted to a suitable heat sink
Humidity	90% non-condensing

Dimensions (Unit : mm)

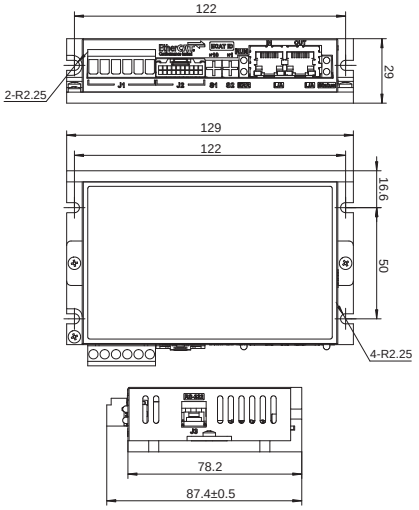
STF05/10-R, STF05/10-C



STF05/10-D, STF05/10-IP

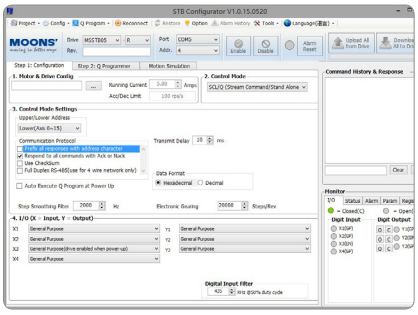


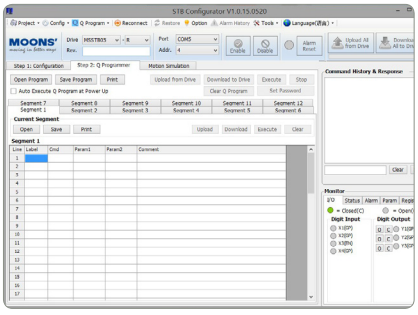
STF05/10-EC



Software

STF Configurator

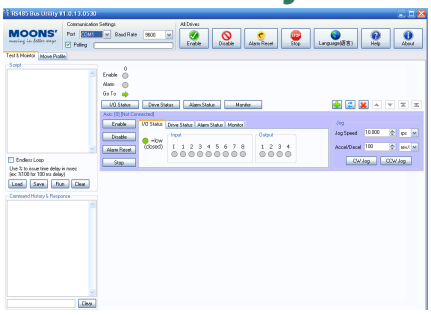




Software Features

- Intuitive interface
- Drive status and alarm monitoring
- Built-in SCL or eSCL Terminal
- Built-in Q Program
- Motion simulation

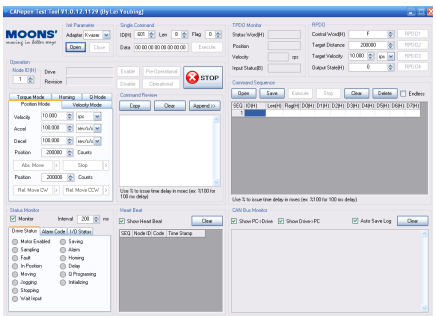
RS485 Bus Utility



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

All software applications run on Windows 7/8/10/XP(Service Pack 3) 32-bit or 64-bit

Standard type step motor

Model	Features	Lead number	Length(mm)	Holding Torque(N.m)	Current(A)	Rotor Inertia(g.cm²)	Mass(Kg)	Mass Dielectric Strength
AM8HY2050-01N	Single Shaft	4	31.5	0.015	0.5	2	0.05	500VAC/1Minute
AM8HY2050-02N	Double Shaft	4						
AM8HY4043-01N	Single Shaft	4	47	0.037		4.2	0.09	
AM8HY4043-02N	Double Shaft	4						
AM11HS1008-07	Single Shaft	4	31	0.05	1.6	9	0.1	
AM11HS3007-02	Single Shaft	4	40	0.08		12	0.15	
AM11HS5008-01	Single Shaft	4	51	0.12		18	0.2	
AM14HYB401-03	Single Shaft	4	40	0.2	1	20	0.21	
AM17HD4452-01N	Double Shaft	4	34.3	0.25	1.8	38	0.23	
AM17HD4452-02N	Single Shaft	4						
AM17HD2438-01N	Double Shaft	4	39.8	0.4	1.8	57	0.28	
AM17HD2438-02N	Single Shaft	4						
AM17HD6426-06N	Single Shaft	4	48.3	0.5	1.8	82	0.36	
AM17HD6426-05N	Double Shaft	4						
AM17HDB410-01N	Single Shaft	4	62.8	0.85	1.6	123	0.6	
AM23HS0420-01	Single Shaft	4	41	0.6	2.2	135	0.42	
AM23HS0420-02	Double Shaft	4						
AM23HS2449-01	Single Shaft	4	54	1.2	2.2	260	0.6	
AM23HS2449-02	Double Shaft	4						
AM23HS3454-01	Single Shaft	4	76	1.8	2.2	460	1	
AM23HS3454-02	Double Shaft	4						
AM23HS0421-01	Single Shaft	4	41	0.6	4.5	135	0.42	
AM23HS0421-02	Double Shaft	4						
AM23HS2450-01	Single Shaft	4	54	1.2	4.5	260	0.6	
AM23HS2450-02	Double Shaft	4						
AM23HS3455-01	Single Shaft	4	76	1.8	4.5	460	1	
AM23HS3455-02	Double Shaft	4						
AM23HS04A0-01	Single Shaft	4	39	0.82	2.2	120	0.4	
AM23HS04A0-02	Double Shaft	4						
AM23HS84A0-01	Single Shaft	4	55	1.5	2.2	220	0.6	
AM23HS84A0-02	Double Shaft	4						
AM23HSA4A0-01	Single Shaft	4	77	2.3	2.2	390	1	
AM23HSA4A0-02	Double Shaft	4						
AM23HS04B0-01	Single Shaft	4	39	0.82	4.5	120	0.4	
AM23HS04B0-02	Double Shaft	4						
AM23HS84B0-01	Single Shaft	4	55	1.5	4.5	220	0.6	
AM23HS84B0-02	Double Shaft	4						
AM23HSA4B0-01	Single Shaft	4	77	2.3	4.5	390	1	
AM23HSA4B0-02	Double Shaft	4						
AM23HS04B0-03	Single Shaft	4	39	0.82	4.5	120	0.4	
AM23HS04B0-04	Double Shaft	4						
AM23HS84B0-03	Single Shaft	4	55	1.5	4.5	220	0.6	
AM23HS84B0-04	Double Shaft	4						
AM23HSA4B0-03	Single Shaft	4	77	2.3	4.5	390	1	
AM23HSA4B0-04	Double Shaft	4						
AM24HS2402-08N	Single Shaft	4	54	1.2	4.5	450	0.83	
AM24HS2402-11N	Double Shaft	4						
AM24HS5401-10N	Single Shaft	4	85	2.5	4.5	900	1.4	
AM24HS5401-24N	Double Shaft	4						
AM34HD0404-08	Single Shaft	4	66.5	3	7	1100	1.6	
AM34HD0404-09	Double Shaft	4						
AM34HD1404-06	Single Shaft	4	96	5	7	1850	2.7	
AM34HD1404-07	Double Shaft	4						
AM34HD2403-07	Single Shaft	4	125.5	7.1	7	2750	3.8	
AM34HD2403-08	Double Shaft	4						

IP65 type motor

Model	Features	Lead number	Length(mm)	Holding Torque(N.m)	Current(A)	Rotor Inertia(g.cm²)	Mass(Kg)	Mass Dielectric Strength
AM23HS2450-03	IP65 Motor	4	61.7	2.5	4.5	260	0.6	500VAC/1Minute
AM23HS3455-05	IP65 Motor	4	83.7			460	1	
AM24HS5401-44N	IP65 Motor	4	94.5			900	1.4	
AM34HD1404-13	IP65 Motor	4	98	5	7	1850	2.7	
AM34HD2403-13	IP65 Motor	4	127.5	7.1		2750	3.8	

With brake type motor

Model	Features	Lead number	Length(mm)	Holding Torque(N.m)	Current(A)	Rotor Inertia(g.cm²)	Mass(Kg)	Mass Dielectric Strength
AM17HD4452-BR01	Brake Motor	8+2	60.3	0.25	1.8	38	0.38	500VAC/1Minute
AM17HD2438-BR01	Brake Motor	8+2	65.8	0.4		57	0.43	
AM17HD6426-BR01	Brake Motor	8+2	74.3	0.5		82	0.51	
AM17HDB410-BR01	Brake Motor	8+2	88.8	0.85		123	0.75	
AM23HS2449-BR01	Brake Motor	4+2	95	1.2	2.2	260	0.8	
AM23HS2450-BR01	Brake Motor	4+2	95	1.2		260	0.8	
AM23HS04B0-BR01	Brake Motor	4+2	80	0.82	4.5	120	0.62	
AM23HS84B0-BR01	Brake Motor	4+2	96	1.5		220	0.8	
AM23HSA4B0-BR01	Brake Motor	4+2	118	2.3		390	1.2	
AM24HS2402-BR01	Brake Motor	4+2	95	1.2	4.5	450	1.03	
AM24HS5401-BR01	Brake Motor	4+2	126	2.5		900	1.6	
AM34HD0404-BR01	Brake Motor	4+2	118.5	3	7	1100	2.2	
AM34HD1404-BR01	Brake Motor	4+2	148	5		1850	3.3	
AM34HD2403-BR01	Brake Motor	4+2	177.5	7.1		2750	4.4	

Encoder type motor

Model	Features	Lead number	Length(mm)	Holding Torque(N.m)	Current(A)	Rotor Inertia(g.cm²)	Mass(Kg)	Mass Dielectric Strength
AM17HD4452-E1000D	Encoder motor	4	34.3	0.25	1.8	38	0.23	500VAC/1Minute
AM17HD2438-E1000D	Encoder motor	4	39.8	0.4		57	0.28	
AM17HD6426-E1000D	Encoder motor	4	48.3	0.5		82	0.36	
AM23HS0420-E1000D	Encoder motor	4	41	0.6	2.2	135	0.42	
AM23HS2449-E1000D	Encoder motor	4	54	1.2		260	0.6	
AM23HS3454-E1000D	Encoder motor	4	76	1.8		460	1	
AM23HS0421-E1000D	Encoder motor	4	41	0.6	4.5	135	0.42	
AM23HS2450-E1000D	Encoder motor	4	54	1.2		260	0.6	
AM23HS3455-E1000D	Encoder motor	4	76	1.8		460	1	
AM23HS5412-E1000D	Encoder motor	4	111	3.2		750	1.5	
AM24HS2402-E1000D	Encoder motor	4	54	1.2		450	0.83	
AM24HS5401-E1000D	Encoder motor	4	85	2.5		900	1.4	
AM34HD0404-E1000D	Encoder motor	4	66.5	3	7	1100	1.6	
AM34HD1404-E1000D	Encoder motor	4	96	5		1850	2.7	
AM34HD2403-E1000D	Encoder motor	4	125.5	7.1		2750	3.8	

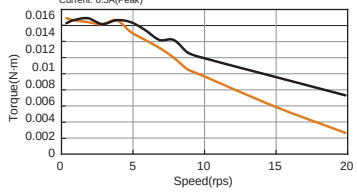
*MOONS' offers standard encoder type motor with 1000 line encoder, A/B/Z differential output.

Gearbox type motor

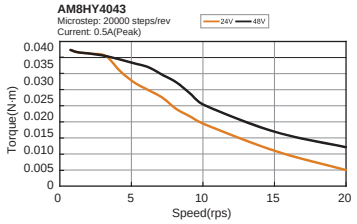
Model	Features	Lead number	Length(mm)	Holding Torque(N.m)	Current(A)	Rotor Inertia(g.cm²)	Mass(Kg)	Mass Dielectric Strength
AM17HD4452-PG05	5 speed reducer motor	4	101.8	1.25	1.8	950	0.55	
AM17HD4452-PG10	10 speed reducer motor	4	101.8	2.5	1.8	3800	0.55	
AM17HD4452-PG20	20 speed reducer motor	4	114.8	5	1.8	15200	0.63	
AM17HD2438-PG05	5 speed reducer motor	4	107.3	2	1.8	1425	0.6	
AM17HD2438-PG10	10 speed reducer motor	4	107.3	4	1.8	5700	0.6	
AM17HD2438-PG20	20 speed reducer motor	4	120.3	8	1.8	22800	0.68	
AM17HD6426-PG05	5 speed reducer motor	4	115.8	2.5	1.8	2050	0.68	
AM17HD6426-PG10	10 speed reducer motor	4	115.8	5	1.8	8200	0.68	
AM17HD6426-PG20	20 speed reducer motor	4	128.8	10	1.8	32800	0.76	
AM17HDB410-PG05	5 speed reducer motor	4	130.3	4.25	1.6	3075	0.92	
AM17HDB410-PG10	10 speed reducer motor	4	130.3	8.5	1.6	12300	0.92	
AM17HDB410-PG20	20 speed reducer motor	4	143.3	17	1.6	49200	1	
AM23HS04B0-PG05	5 speed reducer motor	4	112.5	4.1	4.5	2625	1.23	
AM23HS04B0-PG10	10 speed reducer motor	4	112.5	8.2	4.5	10500	1.23	
AM23HS04B0-PG20	20 speed reducer motor	4	125.5	16.4	4.5	42000	1.44	
AM23HS84B0-PG05	5 speed reducer motor	4	128.5	7.5	4.5	5375	1.43	
AM23HS84B0-PG10	10 speed reducer motor	4	128.5	15	4.5	21500	1.43	
AM23HS84B0-PG20	20 speed reducer motor	4	141.5	30	4.5	86000	1.64	
AM23HSA4B0-PG05	5 speed reducer motor	4	150.5	11.5	4.5	9125	1.83	500VAC/1Minute
AM23HSA4B0-PG10	10 speed reducer motor	4	150.5	23	4.5	36500	1.83	
AM23HSA4B0-PG20	20 speed reducer motor	4	163.5	46	4.5	146000	2.07	
AM24HS2402-PG05	5 speed reducer motor	4	127.5	6	4.5	11250	1.66	
AM24HS2402-PG10	10 speed reducer motor	4	127.5	12	4.5	45000	1.66	
AM24HS2402-PG20	20 speed reducer motor	4	140.5	24	4.5	180000	1.87	
AM24HS5401-PG05	5 speed reducer motor	4	158.5	12.5	4.5	22500	2.23	
AM24HS5401-PG10	10 speed reducer motor	4	158.5	25	4.5	90000	2.23	
AM24HS5401-PG20	20 speed reducer motor	4	171.5	50	4.5	360000	2.44	
AM34HD0404-PG05	5 speed reducer motor	4	170.5	15	7	27500	3.71	
AM34HD0404-PG10	10 speed reducer motor	4	170.5	30	7	110000	3.71	
AM34HD0404-PG20	20 speed reducer motor	4	188.5	60	7	440000	4.21	
AM34HD1404-PG05	5 speed reducer motor	4	210	25	7	46250	4.81	
AM34HD1404-PG10	10 speed reducer motor	4	210	50	7	185000	4.81	
AM34HD1404-PG20	20 speed reducer motor	4	218	100	7	740000	5.31	
AM34HD2403-PG05	5 speed reducer motor	4	229.5	35.5	7	68750	5.91	
AM34HD2403-PG10	10 speed reducer motor	4	229.5	71	7	275000	5.91	
AM34HD2403-PG20	20 speed reducer motor	4	247.5	142	7	1100000	6.41	

Torque Curves

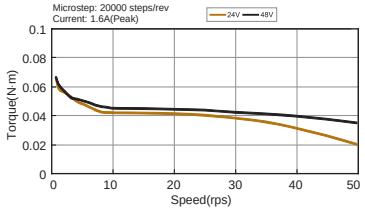
AM8HY2050
Microstep: 20000 steps/rev
Current: 0.5A(Peak)



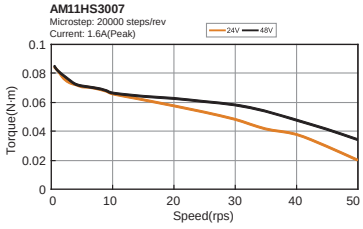
AM8HY4043
Microstep: 20000 steps/rev
Current: 0.5A(Peak)



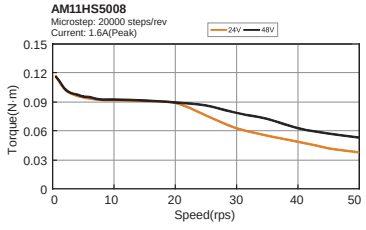
AM11HS1008
Microstep: 20000 steps/rev
Current: 1.6A(Peak)



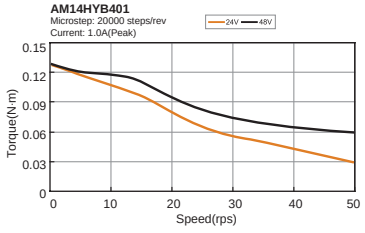
AM11HS3007
Microstep: 20000 steps/rev
Current: 1.6A(Peak)



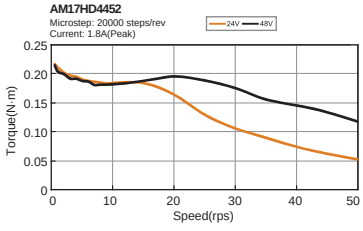
AM11HS5008
Microstep: 20000 steps/rev
Current: 1.6A(Peak)



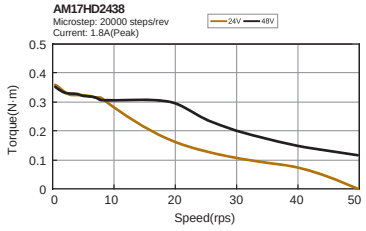
AM14HYB401
Microstep: 20000 steps/rev
Current: 1.0A(Peak)



AM17HD4452
Microstep: 20000 steps/rev
Current: 1.8A(Peak)



AM17HD2438
Microstep: 20000 steps/rev
Current: 1.8A(Peak)



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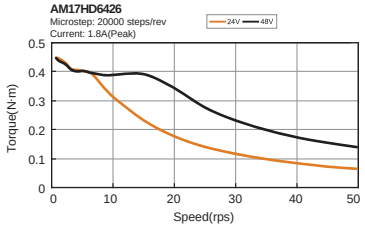
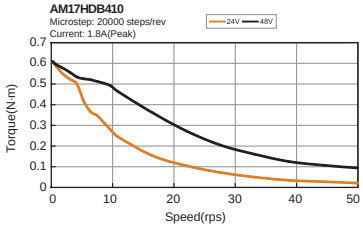
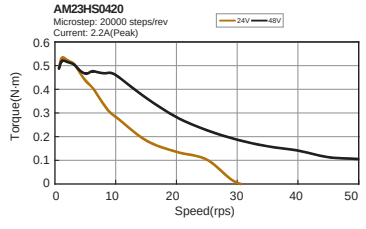
Microstep: 20000 steps/rev
Current: 1.8A(Peak)



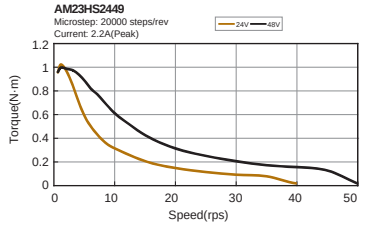
AM17HDB410
Microstep: 20000 steps/rev
Current: 1.8A(Peak)



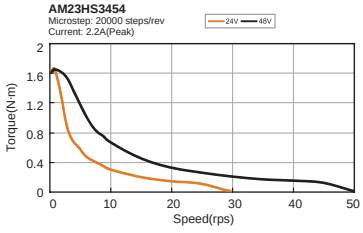
AM23HS0420
Microstep: 20000 steps/rev
Current: 2.2A(Peak)



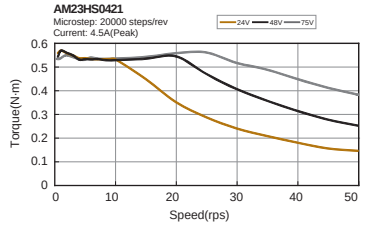
AM23HS2449
Microstep: 20000 steps/rev
Current: 2.2A(Peak)



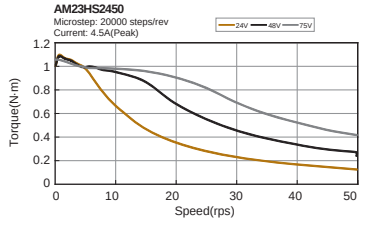
AM23HS3454
Microstep: 20000 steps/rev
Current: 2.2A(Peak)



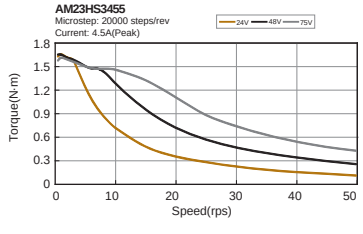
AM23HS0421
Microstep: 20000 steps/rev
Current: 4.5A(Peak)



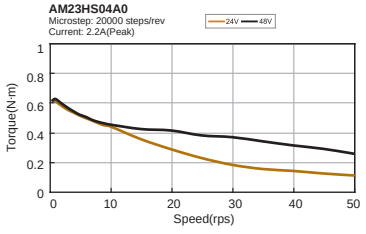
AM23HS2450
Microstep: 20000 steps/rev
Current: 4.5A(Peak)



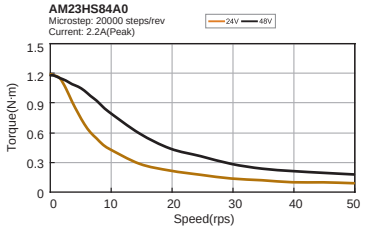
AM23HS3455
Microstep: 20000 steps/rev
Current: 4.5A(Peak)



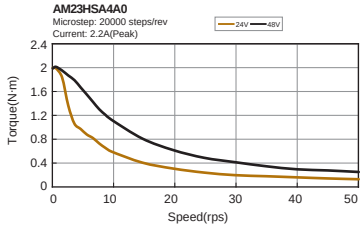
AM23HS04A0
Microstep: 20000 steps/rev
Current: 2.2A(Peak)



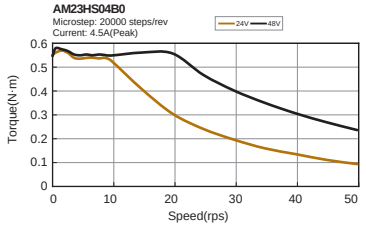
AM23HS84A0
Microstep: 20000 steps/rev
Current: 2.2A(Peak)



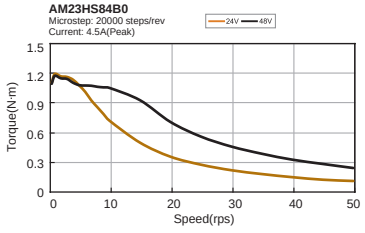
AM23HSA4A0
Microstep: 20000 steps/rev
Current: 2.2A(Peak)

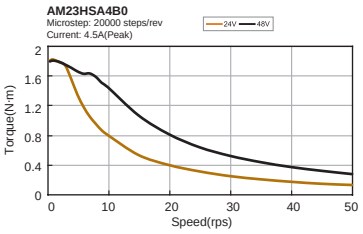


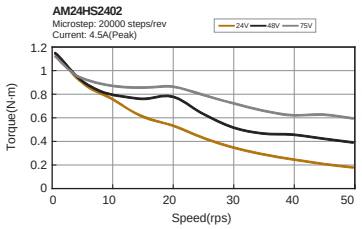
AM23HS04B0
Microstep: 20000 steps/rev
Current: 4.5A(Peak)

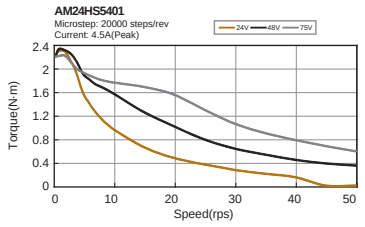


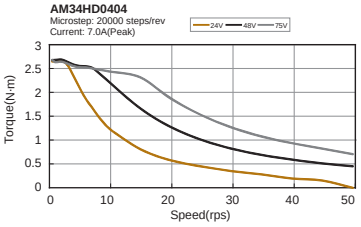
AM23HS84B0
Microstep: 20000 steps/rev
Current: 4.5A(Peak)

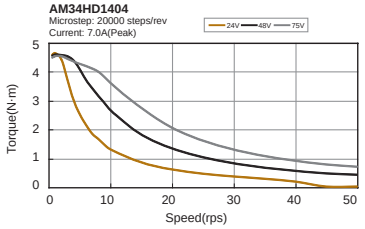


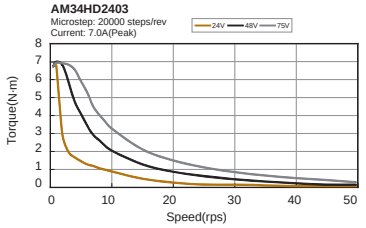








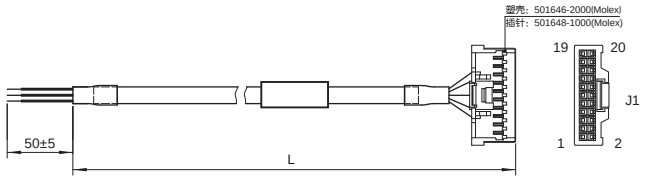




Accessories (Sold Separately)

I/O Cable

P/N	Length
1015-030	0.3m
1015-100	1m
1015-200	2m

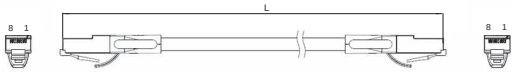


Pin No.	Assignment	Description	Color	Pin No.	Assignment	Description	Color
1	X1+	X1 Digital Input	Blue/White	11	X7	X7 Digital Input	Yellow
2	X1-		Blue/Black	12	X8	X8 Digital Input	Green
3	X2+	X2 Digital Input	Green/White	13	SHIELD	Shield	Shield
4	X2-		Green/Black	14	XCOM	X5-X8 Digital Input COM	Red
5	X3+	X3 Digital Input	Yellow/White	15	Y1	Y1Digital 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	Black	19	Y4+	Y4 Digital Output	Purple/White
10	X6	X6 Digital Input	Purple	20	Y4-		Purple/Black

Daisy Chain Cable

Common Type	Flexible Type	Length
2012-030 *	2013-030	0.3m
2012-300	2013-300	3m

* 2012-030 is included in the drive package.



RC-880 Regeneration Clamp

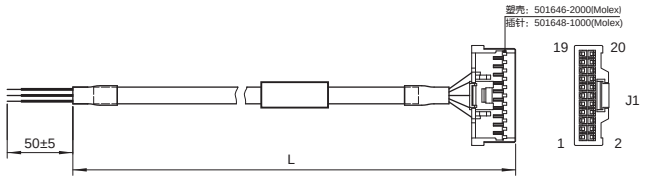
RC-880 can clamp the regeneration and prevent the power supply and/or drive being damaged or destroyed. Connect the RC-880 between the power supply and the drive.

Max. Supply Voltage: 80V
Max. Output Current: 8A(rms)
Continuous Power: 50W

Accessories (Sold Separately)

I/O Cable

P/N	Length
1015-030	0.3m
1015-100	1m
1015-200	2m

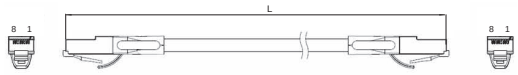


Pin No.	Assignment	Description	Color	Pin No.	Assignment	Description	Color
1	X1+	X1 Digital Input	Blue/White	11	X7	X7 Digital Input	Yellow
2	X1-		Blue/Black	12	X8	X8 Digital Input	Green
3	X2+	X2 Digital Input	Green/White	13	SHIELD	Shield	Shield
4	X2-		Green/Black	14	XCOM	X5-X8 Digital Input COM	Red
5	X3+	X3 Digital Input	Yellow/White	15	Y1	Y1Digital 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	Black	19	Y4+	Y4 Digital Output	Purple/White
10	X6	X6 Digital Input	Purple	20	Y4-		Purple/Black

Daisy Chain Cable

Common Type	Flexible Type	Length
2012-030 *	2013-030	0.3m
2012-300	2013-300	3m

* 2012-030 is included in the drive package.



RC-880 Regeneration Clamp

RC-880 can clamp the regeneration and prevent the power supply and/or drive being damaged or destroyed. Connect the RC-880 between the power supply and the drive.

Max. Supply Voltage: 80V
Max. Output Current: 8A(rms)
Continuous Power: 50W

Numbering System

STF 05 - EC

Series
STF

Output Current(Peak)
03 = 3A
05 = 5A
05 = 6A
10 = 10A

Control Mode
R = RS-485
C = CANopen
D = Ethernet
IP = EtherNet/IP
EC = EtherCAT

Ordering information

Model	Current	Voltage	RS-485	Modbus/RTU	CANopen	Q Program
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 - 70 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 - 70 VDC			√	√

Model	Current	Voltage	Ethernet	Modbus/TCP	EtherNet/IP	EtherCAT	Q Program
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 - 70 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 - 70 VDC	√		√		√
STF03-EC	0.1 - 3.0 A	12 - 48 VDC				√	√
STF05-EC	0.1 - 5.0 A	24 - 48 VDC				√	√
STF06-EC	0.1 - 6.0 A	12 - 48 VDC				√	√
STF10-EC	0.1 - 10.0 A	24 - 70 VDC				√	√

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