

Linear Step Motors & Linear Slides

(Ball Screws)



Ball Screw Motors

- BSM08 Series
- BSM11 Series
- BSM14 Series
- BSM17 Series
- BSM23 Series

Linear Slides

- MS20 Series
- MS28 Series
- MS35 Series
- MS42 Series

Stepper Drives

- SR Series
- ST Series



Milestones

MAY. 2017	AMP & MOONS' Automation (Germany) GmbH was officially registered in Frankfurt, Germany
MAY. 2017	MOONS' Electric was successfully listed on the Shanghai Stock Exchange
JUN. 2015	MOONS' acquired LIN ENGINEERING
MAY. 2015	MOONS' Electric and PBC Linear officially established Joint Venture
JUN. 2014	MOONS' acquired Applied Motion Products
MAR. 2014	MOONS' Guangzhou Branch Office opened
OCT. 2013	MOONS' Industries Japan was established in Yokohama
OCT. 2013	MOONS' Ningbo Branch Office opened
DEC. 2012	MOONS' Xin'an Branch Office opened
JUN. 2012	MOONS' Chengdu Branch Office opened
AUG. 2011	MOONS' Wuhan Branch Office opened
JUN. 2010	MOONS' Industries (South-East Asia) Pte Ltd. was established in Singapore
SEP. 2009	MOONS' Industries (Europe) S.R.L was established in Milan, Italy
JAN. 2009	MOONS' Qingdao Branch Office opened
MAR. 2008	MOONS' PM Stepper Motor production started
FEB. 2007	MOONS' established joint venture with Applied Motion Products and a driver company was set up
JUL. 2006	MOONS' Nanjing Branch Office opened
MAY. 2006	MOONS' new facility was built and factory relocation was completed
JAN. 2005	First LED Driver was introduced to the market
SEP. 2002	MOONS' Beijing Branch Office opened
OTC. 2001	MOONS' Shenzhen Branch Office opened
DEC. 2000	MOONS' Industries (America), Inc. was established in Chicago, USA
NOV. 2000	MOONS' Wiring Harness Factory was set up and put into production.
OCT. 2000	MOONS' Power Supply Factory was set up and production started
APR. 1998	MOONS' International Trading Company was established
FEB. 1998	MOONS' Motor Factory was set up and HB Stepper Motor production started
AUG. 1997	MOONS' Mini-Detective Polling System was introduced to the China market
FEB. 1994	MOONS' was founded

Catalogue

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Ball Screw Motors

MOONS' BSM Series products are designed based on the knowhow technology of hybrid step motors, ball screws and nuts. Provide high torque, high precision, and high efficiency to fit the application needs of designers. The combination of motor styles, motor sizes, ball screws and nuts, gives the freedom to use motors of different form factors to exactly fit in the application. And, it provides the best performance with any drive and power supply.



- Multiple motor lengths and motor sizes
- Each frame size motor has a variety of lead options
- Each frame size motor has a variety of nut options

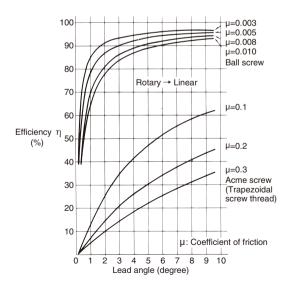
MOONS' has committed to product innovation design and technical improvement, with excellent product quality, application technology. fast and flexible services, which provide customers with high level Linear motion solutions.



Features of BSM Series

High mechanical efficiency

The Ball screws of BSM Series have outstanding transmission efficiency of over 90%, incomparably higher than lead screws. Their required torque is just less than a third of what the lead screws require. Therefore, it is easier to transfer a linear motion into a rotary motion.



Mechanical efficiency of ball screws

Efficiency of ball screws (Rotary → Linear)

Normal operation: $P = \frac{2\pi \eta_1 \times T}{2}$

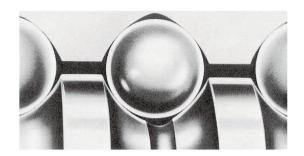
T=Load torque kgf x cm P=Axial external load kgf ℓ =lead cm

 η_1 = Efficiency of ball screws



Small axial clearance, High accuracy, High rigidity

The Ball screws of BSM Series adopt a gothic-arch groove profile, its axial clearance can be adjusted in a highly fine pitch as well as it can be lightly rotated. In addition, by giving a preload to the screw, the axial clearance could be adjusted to 0 to achieve advanced rigidity.



Ball screw groove profile

High hardness, Excellent durability

The Ball screws of BSM Series maintain excellent durability achieved by carefully selected materials, proper heat treatment, and machining with advanced product technologies. Ball screws are generally manufactured to maintain the minimum standard hardness at 58 HRC with the materials listed in right table.

	Material	Hardness
Screw shaft	SCM450 S55C	HRC 58° ~ 64°
Nut	SCM415H	HRC 58° ~ 64°
Steel balls	SUJ2	More than 60 HRC

Materials and hardness

For Safety Use

Lubrication

When using the BSM series products, lubricant should be required. If lubricant is not applied with, the problem such as increase of torque and shortened life occurs. Applying lubricant can minimize temperature increases, decline of mechanical efficiency due to friction, and deterioration of accuracy caused by wear.

Be careful with falling off of components due to their own weight.

Since a ball screw has a low friction factor, its shaft or nut could potentially fall off due to its own weight. Be careful not to have your hand or fingers be caught under the fallen component.

Do not disassemble a nut.

When balls have been dropped off the nut or the nut has been removed from a shaft, do not attempt to reassemble them yourself and return them to our company for repair.

(In this case, repairing charges are required.)

If it necessary to disassemble the nut by yourself, Please consult with our technical department first.

Pay careful attention to mounting accuracy.

A moment load caused by misalignment of a ball screw, bearing, guide, nut, and housing and improper angularity may result in malfunction, extraordinary noise, abnormal vibration, shorter product life as well as breakage of screw shaft due to rotating bending fatigue. Be careful with such defects because they may lead to a serious accident.

Working Temperature

Normally, The BSM Series work temperature range is 0~60 °C . If it necessary to work beyond the recommended temperatures, Please consult with our technical department first.



Model Numbering System

BSM 172S - B0801 - 100 - AK1 - 0 - XXX

Ball Screw Motor Type Code

Code	Structure Type
BSM	External Nut - Ball screw Shaft

Motor Size Code

Code		Motor Body Length Max(mm)	Step Angle (°)	
08	0S	28.3	1.8	
00	0G	29.5	5	
11	18	32	1.8	
- ' '	5S	52	1.6	
	1A	28	0.9	
14	18	28	1.8	
	3S	36	1.6	
	4A	34.3	0.9	
17	48	34.3	1.8	
	6S	48.3	1.8	
23	88	57	1.8	
23	AS	79	1.8	

Ball Screw Type Code

Code	Nominal Diameter (mm)	Lead (mm)	Code	Nominal Diameter (mm)	Lead (mm)
B0401	4	1	B1002	10	2
B0601	6	1	B1004	10	4
B0801	8	1	B1010	10	10
B0802	8	2	B1202	12	2
B08025	8	2.5	B1204	12	4
B0805	8	5	B1205	12	5
B0808	8	8	B1210	12	10

Ball Screw Lengths(Lx)

###	Provided in 1 mm increments

Rated Current Code This code defines by our technical department XXX=X.XX(A) Special Custom Type Code **Custom Type** Non Special Custom M Motor Custom Lead Screw End Machining В Add Encoder Е Add Brake С Other Special Custom Type

Boundary Boundary							
AK 1 B0801 B0802 B08025 B1002 B1202 2 B1004 BU 1 B0805 B0808 BM 1 B1010 B1204 AV 2		Code	Mating Ball Screw				
AK 1 B0801 B0802 B08025 B1002 B1202 2 B1004 BU 1 B0805 B0808 BM 1 B1010 B1204 AV 2			B0401				
AK			B0601				
AK B08025 B1002 B1202 2 B1004 BU 1 B0805 B0808 BM 1 B1010 B1204 AV 2			B0801				
B08025 B1002 B1202 2 B1004 BU 1 B0805 B0808 BM 1 B1010 B1204 AV 2	ΔK	1	B0802				
B1202 2 B1004 BU 1 B0805 B0808 BM 1 B1010 B1204 AV 2	AK		B08025				
2 B1004 BU 1 B0805 B0808 BM 1 B1010 B1204 AV 2			B1002				
BU 1 B0805 B0808 BM 1 B1010 B1204 AV 2			B1202				
BM 1 B1010 B1204 AV 2		2	B1004				
BM 1 B1010 B1204 AV 2	BU	1	B0805				
B1204 B1205			B0808				
AV 2 B1205	BM	1	B1010				
AV 2			B1204				
	Δ\/	0	B1205				
	AV	2	B1210				

Nut Type Code



Configuration Table

_	W174S BSM176S BSM238S BSM23AS		1	1 1		1 1 1 1 1 0 0									
	BSM174S	ı		ı	1 ©	1 © ©	1 0 0		1 0 0 0 0						
BSM174A		1	ı		© ©										
BSM143S				0		0									
A BSM141S	ı		ı	0		0	0 0	0 0 0	0 0 0	O O O I					
BSM141A		I	ı	0		0	0 0	0 0 0							
BSM115S		I	0	I		I	1 1	1 1 1	1 1 1	1 1 1 1	1 1 1 1 1				
BSM111S		I	0	ı		I	1 1	1 1 1	1 1 1	1 1 1 1	1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1
BSM080G		0	I	I		I	1 1	1 1 1	1 1 1 1	1 1 1 1	1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1
	BSM080S	0	I	I	1		ı	1 1	1 1 1	1 1 1	1 1 1 1				
		B0401	B0601	B0801	B0802	 	B08025	B08055	B08025 B0805 B0808	B08025 B0805 B0808 B1002	B08025 B0805 B0808 B1002	B08025 B0808 B1002 B1004	B08025 B0808 B1002 B1004 B1202	B08025 B0808 B1002 B1004 B1202 B1204	B08025 B0808 B1002 B1004 B1202 B1204 B1205
Lead	(mm)	1	-	1	2		2.5	2.5	8 5.5	25	2.5 3.5 6 8 8 8 7 4	25 7 8 8 4 0 10 0 0 0 0 0	2. 7. 8 0 4 0 0	2.5 3.5 4 4 4 4	2. 0 4 0 4 0 0 4 0
Nominal	(mm)	4	9	8	8		8	ω ω	ω ω ω	8 8 8 01	8 8 8 01 01	8 8 0 0 0 0	8 8 8 0 0 0 0 21	8 8 8 0 0 0 0 2 2 2	8 8 8 0 0 0 0 2 2 2 2 2

Note:Marked with " ○ "is available.



BSM08 Series

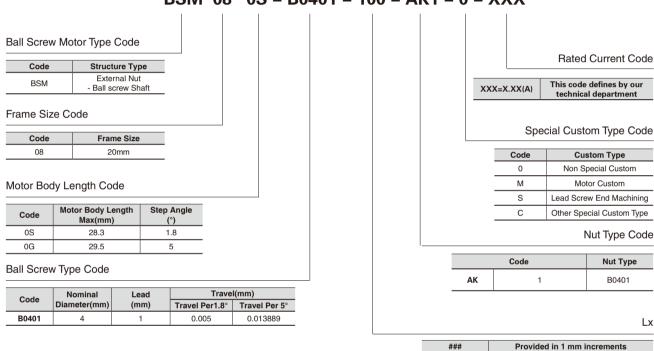
Phases 2 Step Accuracy ±5% **IP Rating** 40 **Approvals RoHS**

Operating Temp. -20°C~+50°C **Insulation Class** B(130°C) 100MegOhms **Insulation Resistance**



Ordering Information



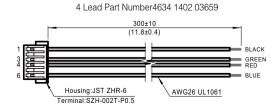


■ BSM08 Step Motor - 4 Lead Bi-Polar

	Motor Body C. A. I			Winding		
Motor Type Code	•	Step Angle	Electrical Connection	Rated Current (Amps)	Resistanc(Ohms)	Inductance(mH)
	(mm)		Connection	(Allips)	±10%@20°C	Тур.
BSM080S	28.3	1.8°	Plug In Connector	0.4	12.65	4.1
BSM080G	29.5	5°	Plug In Connector	0.6	6.2	1.6

Note: Recommended Driver, DC Input: SR2-Plus, SR3-mini; DC Input Controller Type: ST5-S/Q/C-AN(RN).

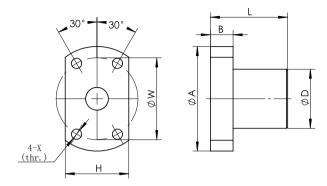
■ Mating Connector With Leads (order separately)





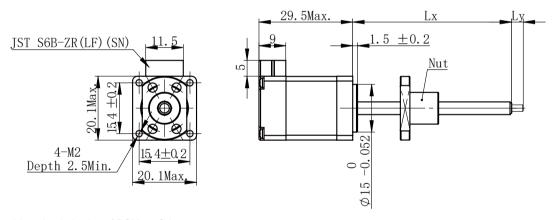
BSM08 Series

■ Nut Dimension UNIT:mm



Screw Type	Nut	Code	D	Α	В	L	W	Н	Х
B0401	AK	1	10	20	3	12	15	14	2.9

■ Motor Dimension



Note: The Mounting hole size of BSM080G is 16 ± 0.2 mm.



BSM11 Series

Phases 2 **Step Accuracy** ±5% IP Rating 40 **Approvals** RoHS

Operating Temp. -20°C~+50°C **Insulation Class** B(130°C) **Insulation Resistance** 100MegOhms



Ordering Information

BSM 11 1S - B0601 - 100 - AK1 - 0 - XXX

Ball Screw Motor Type Code Code Structure Type External Nut BSM - Ball screw Shaft

Frame Size Code

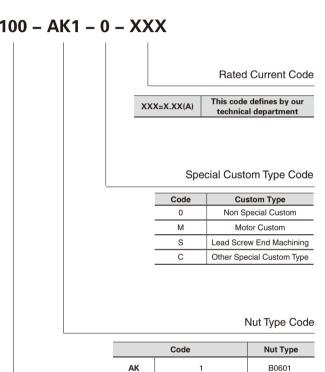
Code	Frame Size
11	28mm

Motor Body Length Code

Code	Motor Body Length Max(mm)	Step Angle (°)
1S	32	1.8
5S	52	1.8

Ball Screw Type Code

Code	Nominal	Lead	Travel(mm)
Code	Diameter(mm)	(mm)	Travel Per1.8°
B0601	6	1	0.005



Lx

Provided in 1 mm increments

■ BSM11 Step Motor - 4 Lead Bi-Polar

	Motor Body				Winding	
Motor Type Code	•	Step Angle	Electrical Rated Current (Amps)	Resistanc(Ohms)	Inductance(mH)	
	(mm)	()		(Allips)	±10%@20°C	Тур.
BSM111S	32	1.8°	Plug In Connector	1	2.7	2.5
BSM115S	52	1.8°	Plug In Connector	1.5	1.65	1.48

Note: Recommended Driver, DC Input: SR2-Plus; DC Input Controller Type: ST5-S/Q/C-AN(RN)_o

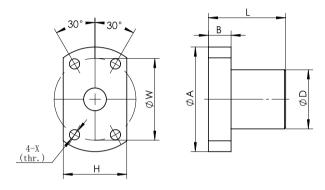


BSM11 Series

■ Mating Connector With Leads (order separately)

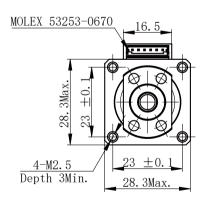
4 Lead Part Number 4634 1402 04190 300±10 (11.8±0.4) ≡ GREEN ≡ RED = BLUE Housing:Molex 51065-0600 AWG26 UL3266 Terminal:Molex 50212-8000

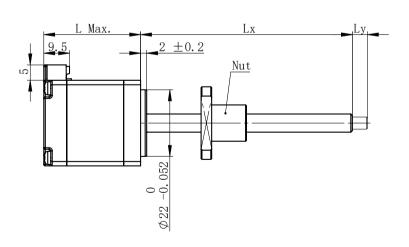
■ Nut Dimension UNIT:mm



Screw Type	Nut	Code	D	Α	В	L	W	Н	Х
B0601	AK	1	12	24	3.5	15	18	16	3.4

■ Motor Dimension





Motor type	Dimension "L"
BSM111S	32 mm
BSM115S	52 mm



BSM14 Series

2 **Phases Step Accuracy** ±5% **IP Rating** 40 **Approvals RoHS**

Operating Temp. -20°C~+50°C **Insulation Class** B(130°C) **Insulation Resistance** 100MegOhms



Ordering Information

BSM 14 1S - B0801 - 100 - AK1 - 0 - XXX

Ball Screw Motor Type Code

Code	Structure Type
DCM	External Nut
BSM	- Ball screw Shaft

Frame Size Code

Code	Frame Size
14	35mm

Motor Body Length Code

Code	Motor Body Length Max(mm)	Step Angle (°)
1A	28	0.9
1S	28	1.8
3S	36	1.8

Ball Screw Type Code

Code	Nominal	Lead	Trave	l(mm)
Code	Diameter(mm)	(mm)	Travel Per 0.9°	Travel Per 1.8°
B0801	8	1	0.0025	0.005
B0802	8	2	0.005	0.01
B08025	8	2.5	0.00625	0.0125
B0805	8	5	0.0125	0.025
B0808	8	8	0.02	0.04

Rated Current Code

XXX=X.XX(A)	This code defines by our
AAA=A.AA(A)	technical department

Special Custom Type Code

Code	Custom Type
0	Non Special Custom
М	Motor Custom
s	Lead Screw End Machining
В	Add Encoder
E	Add Brake
С	Other Special Custom Type

Nut Type Code

	Code	Nut Type
		B0801
AK	1	B0802
		B08025
BU	1	B0805
вм	1	B0808
		Lx

Provided in 1 mm increments

■ BSM14 Step Motor - 4 Lead Bi-Polar

Motor Type Code	Motor Body			Rated Current (Amps)	Winding		
	Length	Step Angle	Electrical Connection		Resistanc(Ohms)	Inductance(mH)	
	(mm)	()	Connection		±10%@20°C	Тур.	
BSM141A	28	0.9°	Plug In Connector	0.6	10.6	12.6	
BSM141S	28	1.8°	Plug In Connector	1.5	1.55	1.53	
BSM143S	36	1.8°	Plug In Connector	1.5	1.61	2.5	

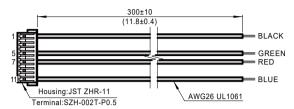
Note: Recommended Driver, DC Input: SR2-Plus; DC Input Controller Type: ST5-S/Q/C-AN(RN).



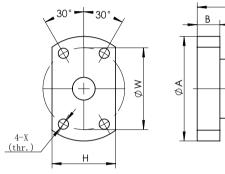
BSM14 Series

■ Mating Connector With Leads (order separately)

4 Lead Part Number 4634 1402 04581

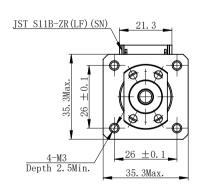


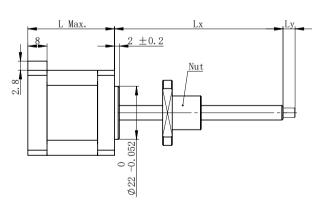
■ Nut Dimension UNIT:mm



Screw Type	Nut	Code	D	Α	В	L	W	Н	X
B0801	AK	1	14	27	4	16	21	18	3.4
B0802	AK	1	14	27	4	16	21	18	3.4
B08025	AK	1	16	29	4	26	23	20	3.4
B0805	BU	1	22	38	6	27	29	22	3.4
B0808	ВМ	1	23	38	5	28	30	24	3.4

■ Motor Dimension





ΦD

Motor type	Dimension "L"
BSM141A	28 mm
BSM141S	28 mm
BSM143S	36 mm



BSM17 Series

2 **Phases Step Accuracy** ±5% **IP Rating** 40 **Approvals** RoHS

Operating Temp. -20°C~+50°C **Insulation Class** B(130°C) **Insulation Resistance** 100MegOhms



■ Ordering Information

BSM 17 4S - B0801 - 100 - AK1 - 0 - XXX

Ball Screw Motor Type Code

Code	Structure Type
BSM	External Nut - Ball screw Shaft

Frame Size Code

Code	Frame Size	
17	42mm	

Motor Body Length Code

Code	Motor Body Length Max(mm)	Step Angle (°)
4A	34.3	0.9
4S	34.3	1.8
6S	48.3	1.8

Lead Screw Type Code

	Nominal	Lead	Travel(mm)		
Code	Diameter (mm)	(mm)	Travel Per 0.9°	Travel Per 1.8°	
B0801	8	1	0.0025	0.005	
B0802	8	2	0.05	0.01	
B08025	8	2.5	0.00625	0.0125	
B0805	8	5	0.0125	0.025	
B0808	8	8	0.02	0.04	
B1002	10	2	0.005	0.01	
B1004	10	4	0.01	0.02	
B1010	10	10	0.025	0.05	

Lx

###	Provided in 1 mm increments

Rated Current Code

XXX=X.XX(A)	This code defines by our
ΛΛΛ=Λ.ΛΛ(A)	technical department

Special Custom Type Code

Code	Custom Type	
0	Non Special Custom	
М	Motor Custom	
s	Lead Screw End Machining	
В	Add Encoder	
E	Add Brake	
С	Other Special Custom Type	

Nut Type Code

	Code	Nut Type
		B0801
		B0802
AK	'	B08025
		B1002
	2	B1004
BU	1	B0805
ВМ	4	B0808
DIVI		B1010



BSM17 Series

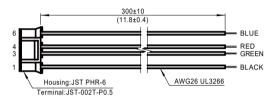
■ BSM17 Step Motor - 4 Lead Bi-Polar

Motor Type Code	Motor Body		ep Angle Electrical Rated Current (°) Connection (Amps)		Winding	
	•	Step Angle			Resistanc(Ohms)	Inductance(mH)
	(mm)			(Allips)	±10%@20°C	Тур.
BSM174A	34.3	0.9°	Plug In Connector	0.7	5.4	14
BSM174S	34.3	1.8°	Plug In Connector	1	4.3	7.7
BSM176S	48.3	1.8°	Plug In Connector	2	1.3	2.9

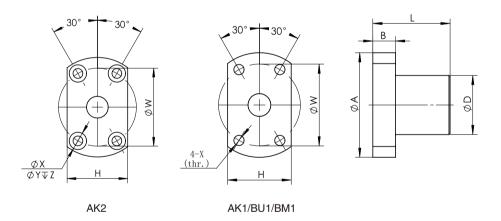
Note: Recommended Driver, DC Input: SR2-Plus, SR4-Plus; DC Input Controller Type: ST5-S/Q/C-AN(RN).

■ Mating Connector With Leads (order separately)

4 Lead Part Number 4634 1402 00723



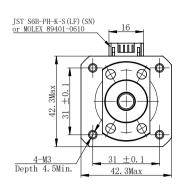
Nut Dimension **UNIT:mm**

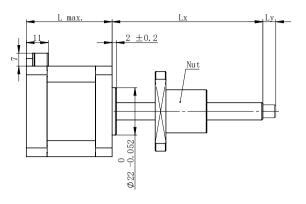


Screw Type	Nut	Code	D	Α	В	L	W	Н	х	Υ	Z
B0801	AK	1	14	27	4	16	21	18	3.4	_	_
B0802	AK	1	14	27	4	16	21	18	3.4	_	-
B08025	AK	1	16	29	4	26	23	20	3.4	_	_
B0805	BU	1	22	38	6	27	29	22	3.4	_	-
B0808	ВМ	1	23	38	5	28	30	24	3.4	_	-
B1002	AK	1	18	35	5	28	27	22	4.5	_	_
B1004	AK	2	26	46	10	34	36	28	4.5	8	4.5
B1010	ВМ	1	28	47	8	34	36	30	4.5	-	_



■ Motor Dimension





Motor type	Dimension "L"
BSM174A	34.3 mm
BSM174S	34.3 mm
BSM176S	48.3 mm



BSM23 Series

Phases 2

Step Accuracy ±5% **IP Rating** 40 **Approvals** RoHS

Operating Temp. -20°C~+50°C **Insulation Class** B(130°C)

Insulation Resistance 100MegOhms



■ Ordering Information

BSM 23 8S - B1002 - 100 - AK1 - 0 - XXX

Ball Screw Motor Type Code

Code	Structure Type
BSM	External Nut - Ball screw Shaft

Frame Size Code

Code	Frame Size
23	57mm

Motor Body Length Code

Code	Code Motor Body Length Max(mm)				
8S	57	1.8			
AS	79	1.8			

Lead Screw Type Code

Code	Nominal Diameter (mm)	Lead (mm)	Travel Per 1.8° (mm)	
B1002	10	2	0.01	
B1004	10	4	0.02	
B1010	10	10	0.05	
B1202	12	2	0.01	
B1204	12	4	0.02	
B1205	12	5	0.025	
B1210	12	10	0.05	
B1210	12	10	0.05	

Lx

Provided in 1 mm increments

Rated Current Code

XXX=X.XX(A)	This code defines by our
ΛΛΛ=Λ.ΛΛ(A)	technical department

Special Custom Type Code

Code	Custom Type			
0	Non Special Custom			
М	Motor Custom			
s	Lead Screw End Machining			
В	Add Encoder			
E	Add Brake			
С	Other Special Custom Type			

Nut Type Code

	Code	Nut Type		
	1	B1002		
AK	'	B1202		
	2	B1004		
ВМ	1	B1204		
DIVI	'	B1010		
AV	2	B1205		
AV	2	B1210		



BSM23 Series

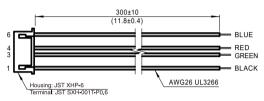
■ BSM23 Step Motor - 4 Lead Bi-Polar

Motor Type Code	Motor Body				Winding		
	•	Step Angle	Electrical Connection	Rated Current (Amps)	Resistanc(Ohms)	Inductance(mH)	
	(mm)	()	Connection	(Ampo)	±10%@20°C	Тур.	
BSM238S	57	1.8°	Plug In Connector	2.2	1.6	7.2	
BSM23AS	79	1.8°	Plug In Connector	3	1.1	5.0	

Note: Recommended Driver, DC Input: SR8-Plus; DC Input Controller Type: ST5-S/Q/C-AN(RN), ST10-S/Q/C-AN(RN).

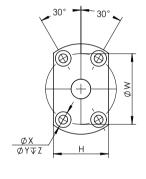
■ Mating Connector With Leads (order separately)

4 Lead Part Number 4634 1402 01891

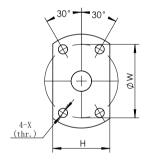


■ Nut Dimension

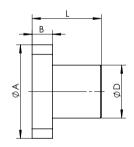
UNIT:mm







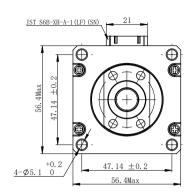
AK1/BU1/BM1

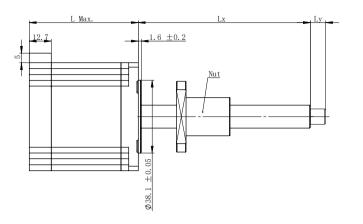


Screw Type	Nut	Code	D	Α	В	L	W	Н	Х	Υ	Z
B1002	AK	1	18	35	5	28	27	22	4.5	_	_
B1004	AK	2	26	46	10	34	36	28	4.5	8	4.5
B1010	BM	1	28	47	8	34	36	30	4.5	-	_
B1202	AK	1	20	37	5	28	29	24	4.5	_	_
B1204	ВМ	1	24	40	10	40	32	30	4.5	_	_
B1205	۸١/	2	30	50	8	35	40	30	4.5	8	4.5
B1210	AV	2	30	50	10	42	40	32	4.5	8	4.5



■ Motor Dimension





Motor type	Dimension "L"
BSM238S	57 mm
BSM23AS	79 mm



Encoder Options-Suitable for applications that require feedback

Parameter

Mating Motor	Supp	ly Voltage (VDC)	- CPR PPR	CPR	DDD		rating ature(°C)	Vibration (g) (5HZ-2KHZ)	Out	nut.
Mating Motor	Min.	Тур.	Max.			FFIL	Low	High	Max.	Out	out
BSM08/11	4.5	_		400	1600	-20	100		Single-ended	Differential	
BSM14/17/23	4.5	5	5.5	1000	4000	-40	100	20	Electrical	Electrical	

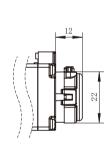


BSM11 with encoder

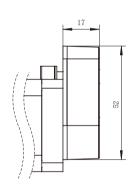


BSM17 with encoder

■ Dimensional Information



The encoder mating BSM08/11

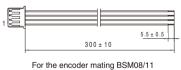


The encoder mating BSM14/17/23

■ Mating Connector With Leads

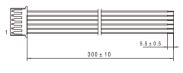
Single-ended Electrical

Pin	Function	Color
1	+5VDC Power	Black
2	A Channel	Green
3	Ground	Red
4	B Channel	Blud



Differential	Electrical

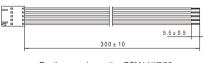
Pin	Function	Color
1	Ground	Black
2	A+Channel	Green
3	A- Channel	Red
4	Power	Blud
5	B+Channel	Yellow
6	B- Channel	White



For the encoder mating BSM08/11

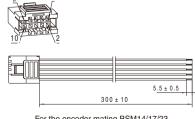
Pin	Function	Color
1	Ground	Black
2	Index	Green
3	A Channel	Red
4	+5VDC Power	Blud
	B Channel	Vellow

Pin	Function	Color
1	-	-
2	Ground	Black
3	I- Channel	Green
4	I+Channel	Red
5	A- Channel	Blud
6	A+Channel	Yellow
7	Power	White
8	-	-
9	B- Channel	Orange
10	B+Channel	Brown



Unit: mm

For the encoder mating BSM14/17/23



For the encoder mating BSM14/17/23



Brake Options

Parameter

Mating Motor	Supply Voltage (VDC)	Braking Torque (N·M)	Power (W)	Reaction Time (ms)	Insulation Grade
BSM11/14	24	0.4	4	15	В
BSM17	24	0.6	5	50	В
BSM23	24	1.2	4.5	50	В

- 1. All the brakes with 300mm leads.
- 2. 12 VDC brake options are available, please consult our technical department for further information.







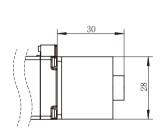
BSM17 with brake



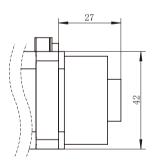
BSM23 with brake

■ Dimensional Information

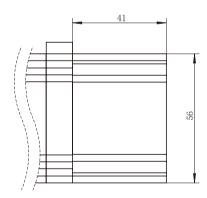
Unit: mm



The brake mating BSM11/14



The brake mating BSM17



The brake mating BSM23



Optional Construction & Modifications

MOONS' often modifies linear actuators to meet application needs. Typical changes include:

- · Ball screws: lengths, end machining and so on.
- · Nuts: basic style, mounting and so on.

To help our customers design efforts, standardized leadscrew features are available.

■ Ball screw End Machining



NO.	Nominal Diameter (mm)	Dimension		
NO.	Nominal Diameter (min)	D(mm)	L(mm)	
1	4	2.5	2.5	
2	6	4	5	
3	8	6	6	
4	10	6	6	
5	12	8	8	



Linear Slides (Ball Screws)

MOONS' Linear Slides are designed to meet the needs of customers' compact structure. These products offer many advantages such as high integration, small size, quieter operation, stable product quality and lower cost. Not only provides the best performance but also easier to use.

- Integrated design, Easy installation
- 4 Sizes motor options: NEMA08, NEMA11, NEMA14, NEMA17
- Each size of Linear Slides has a variety of lead options.
- Each size of Linear Slides has encoder & brake options.

MOONS' has committed to product innovation design and technical improvement, with excellent product quality, application technology, fast and flexible services, which provide customers with high level motion control solutions.









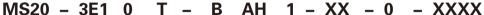


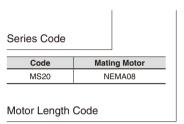
MS20 Series

- Integrated design, Easy installation
- Small size, Width 23mm
- Ball screws, High accuracy



Ordering Information





Code	Motor Length Max(mm)
3E1	29.5(BSM080S)

Additional Options Code

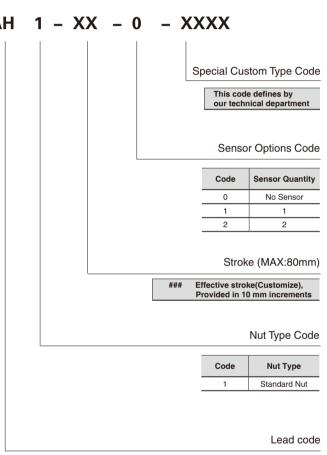
Code	Additional Options*
0	No additional
Е	Encoder

Outlet Direction Code

Code	Outlet Direction**
Т	Тор
В	Bottom
L	Left
R	Right

Screw Type Code

Code	Screw Type
В	Ball Screw



Code	Lead (mm)
AH	1

Note:

^{*}Additional Options: Additional Options: MOONS' provides encoders for BSM08 series motors as additional options, see page17 for more details.

^{**}Outlet Direction:Customer can choose the outlet direction according to the actual requirements,see the dimensional information for outlet direction definition in next page.



MS20 Series

Technical Data

Series		Lead	Maximum Speed	Maximum Load(kg) Motor: BSM080S	
			(mm/s)	Horizontal	Vertical
MS20	AH	1	10	1	0.5

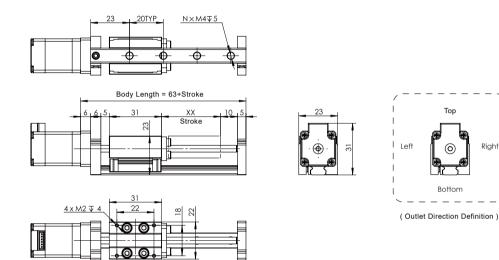
Note:

- 1. The above options are common choices, please consult our technical department for further information.
- 2. Recommended Driver, DC Input: SR2-Plus; DC Input Controller Type: ST5-S/Q/C-AN(RN).

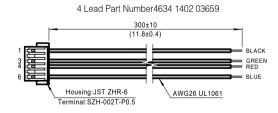
■ Dimensional Information

Unit: mm

Right



■ Mating Connector With Leads





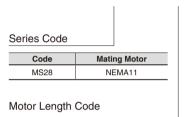
MS28 Series

- Integrated design, Easy installation
- Small size, Width 29mm
- · Ball screws, High accuracy



Ordering Information





Code	Motor Length Max(mm)
3D1	32 (BSM111S)

Additional Options Code

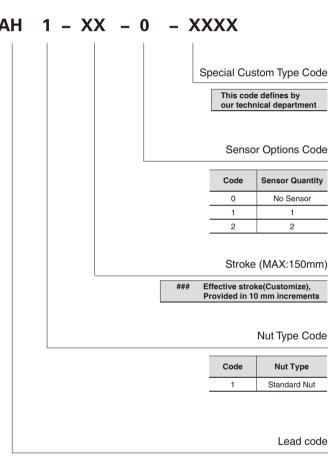
Code	Additional Options*
0	No additional
В	Brake
E	Encoder

Outlet Direction Code

Code	Outlet Direction**
Т	Тор
В	Bottom
L	Left
R	Right

Screw Type Code

Code	Screw Type
В	Ball Screw



Code

АН

(mm)

Note:

^{*}Additional Options: Additional Options: MOONS' provides encoders & brakes for BSM11 series motors as additional options, see page 17 & page 18 for more details.

^{**}Outlet Direction:Customer can choose the outlet direction according to the actual requirements, see the dimensional information for outlet direction definition in next page.



MS28 Series

■ Technical Data

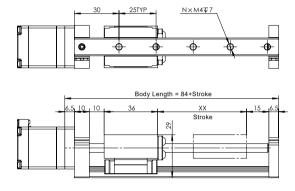
Series	Lead code	Lead		Maximum Speed		Load(kg) ISM111S
			(mm/s)	Horizontal	Vertical	
MS28	AH	1	10	3	2	

Note:

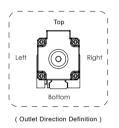
- 1. The above options are common choices, please consult our technical department for further information.
- 2. Recommended Driver, DC Input: SR2-Plus; DC Input Controller Type: ST5-S/Q/C-AN(RN).

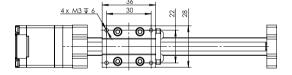
■ Dimensional Information

Unit: mm



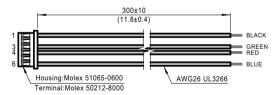






■ Mating Connector With Leads

4 Lead Part Number 4634 1402 04190





MS35 Series

- Integrated design, Easy installation
- Small size, Width 42mm
- · Ball screws, High accuracy



Ordering Information

MS35 - 3C2 0T - B ΑE



Code	Mating Motor
MS35	NEMA14

Motor Length Code

Code	Motor Length Max(mm)
3C1	27.3 (BSM141S)
3C2	36 (BSM143S)

Additional Options Code

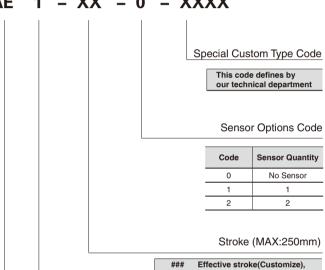
Code	Additional Options*
0	No additiona
В	Brake
Е	Encoder

Outlet Direction Code

Code	Outlet Direction**
T	Тор
В	Bottom
L	Left
R	Right

Screw Type Code

Code	Screw Type
В	Ball Screw



Code	Nut Type
1	Standard Nut

Nut Type Code

Provided in 10 mm increments

Lead code

Code	Lead (mm)
AH	1
AG	2
AD	2.5
AX	5
ВН	8

Note:

- *Additional Options: Additional Options: MOONS' provides encoders & brakes for BSM14 series motors as additional options, see page 17 & page 18 for more details.
- **Outlet Direction:Customer can choose the outlet direction according to the actual requirements, see the dimensional information for outlet direction definition in next page.



MS35 Series

■ Technical Data

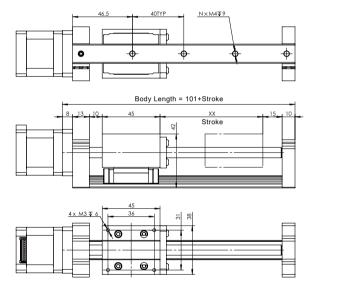
Series Lead	Lead code	code Lead	Maximum Speed (mm/s)	Maximum Load(kg) Motor: BSM141S		Maximum Load(kg) Motor: BSM143S	
				Horizontal	Vertical	Horizontal	Vertical
	AH	1	10	5	3	5	3
AG	2	20	5	3	5	3	
MS35	AD	2.5	25	5	3	5	3
	AX	5	50	5	3	5	3
	ВН	8	80	3.3	2.2	4.4	2.9

Note:

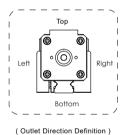
- 1. The above options are common choices, please consult our technical department for further information.
- 2. Recommended Driver, DC Input: SR2-Plus; DC Input Controller Type: ST5-S/Q/C-AN(RN).

■ Dimensional Information

Unit: mm

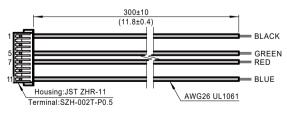






■ Mating Connector With Leads

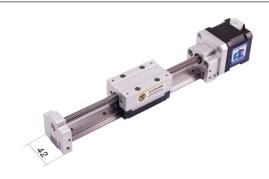
4 Lead Part Number 4634 1402 04581





MS42 Series

- · Integrated design, Easy installation
- Small size, Width 42mm
- · Ball screws, High accuracy



■ Ordering Information

MS42 - 3A10 T - B AH **XXXX**

Series Code

Mating Motor
NEMA17

Motor Length Code

Code	Motor Length Max(mm)	
3A1	39.8 (BSM172S)	

Additional Options Code

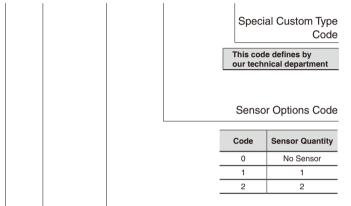
Code	Additional Options*		
0	No additional		
В	Brake		
Е	Encoder		

Outlet Direction Code

Code	Outlet Direction **			
Т	Тор			
В	Bottom			
L	Left			
R	Right			

Screw Type Code

Code	Screw Type
В	Ball Screw



Stroke (MAX:350mm)

Effective stroke(Customize), Provided in 10 mm increments

Nut Type Code

Code	Nut Type	
1	Standard Nut	

Lead code

Code	Lead (mm)
AH	1
AG	2
AD	2.5
AX	5
BH	8

Note:

- *Additional Options: Additional Options: MOONS' provides encoders & brakes for BSM17 series motors as additional options, see page 17 & page 18 for more details.
- **Outlet Direction:Customer can choose the outlet direction according to the actual requirements, see the dimensional information for outlet direction definition in next page.



MS42 Series

■ Technical Data

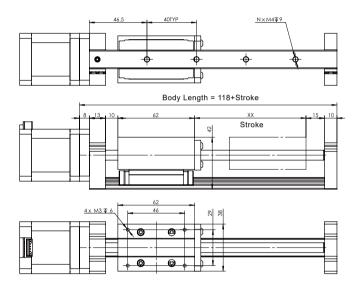
Series L	Lead code	Lead code Lead	Maximum Speed (mm/s)	Maximum Load(kg) Motor: BSM172S	
				Horizontal	Vertical
	AH	1	10	5	3
MS42	AG	2	20	5	3
	AD	2.5	25	5	3
	AX	5	50	5	3
	ВН	8	80	5	3

Note:

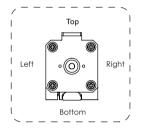
- 1. The above options are common choices, please consult our technical department for further information.
- 2. Recommended Driver, DC Input: SR2-Plus; DC Input Controller Type: ST5-S/Q/C-AN(RN).

■ Dimensional Information

Unit: mm



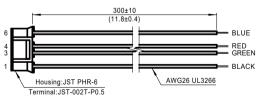




(Outlet Direction Definition)

■ Mating Connector With Leads

4 Lead Part Number 4634 1402 00723





DC Input Stepper Drive-SR Series

SR Series Drives

The SR series are compact, powerful, digital stepper drives feature advanced microstepping performance and sophisticated current control. All drive setup is done via dip or rotary switches.

- Advanced Current Control
- Anti-Resonance
- Torque Ripple Smoothing
- Microstep Emulation

Self Test



■ Features

Anti-Resonance

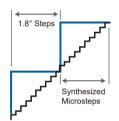
Step motor systems have a natural tendency to resonate at certain speeds. The SR drives automatically calculate the system's natural frequency and apply damping to the control algorithm. This greatly improves midrange stability, allows higher speeds and greater torque utilization, and also improves settling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



Provides better motor performance and higher speeds

Microstep Emulation

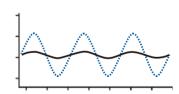
With Microstep Emulation, low resolution systems can still provide smooth motion. The drive can take low resolution step pulses and create fine resolution motion.



Delivers smoother motion in any application

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

Command Signal Smoothing

Command Signal smoothing can soften the effect of immediate changes in velocity and direction, making the motion of the motor less jerky. An added advantage is that it can reduce the wear on mechanical components.



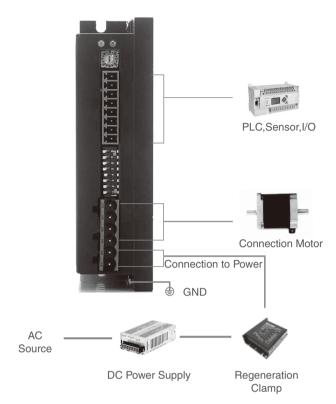
Improves overall system performance

Auto Setup & Self Test

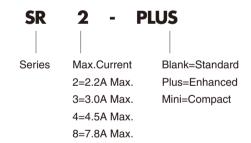
At start-up the drive measures motor parameters, including the resistance and inductance, then uses this information to optimize system performance. The drive can also detect open and short circuits.



■ System Configuration



■ Numbering System



■ Ordering Information

Model	Current	Voltage	Microstep Selection	Current Selection
SR2-Plus	0.3-2.2A	12-48VDC	16	8
SR3-mini	0.4-3.0A	12-48VDC	16	8
SR4-Plus	1.0-4.5A	24-48VDC	16	8
SR8-Plus	2.4-7.8A	24-75VDC	16	8



■ Drive Specifications

	Specification					
Speed Range	Up to 3000RPM					
Operating Temperature	0 - 40°					
Ambient Humidity	90% or less(non-condensing)					
Vibration Resistance	5.9m/s ² maximum					
Storage Temperature	-10 - 70°					
Heat Sinking Method	Natural cooling or fan-forced cooling					
Atmosphere	Avoid dust, oily mist and corrosive air					
Mana	SR2-Plus/SR3-mini: Approx. 120g					
Mass	SR4/8-Plus: Approx. 310g					
Certicification	RoHS , CE (EMC): EN 61800-3:2004					
	Features					
Idle Current	Automatic idle current reduction to reduce heat after motor stops moving for 1 second Dip switch selectable 50% or 90%					
Anti-Resonance	Raises the system-damping ratio to eliminate midrange instability and allow stable operation throughout the speed range of the motor, dip switch selectable load inertia					
Control Mode	Pulse input control Step&Dir					
Inupt Signal Filter	Digital filters prevent position error from electrical noise on command signals, Dip switch selectable 2MHz or 150KHz					
Microstep Emulation	Switch selectable microstep emulation provides smoother, more reliable motion					
Motor Database	Rotary switch easily selects from many popular motors					
Self Test	Switch selectable automatic self test, while self test, drive will rotate the motor back and forth, two turns in each direction					
Fault output	Optically isolated,30VDC max, 100mA max					

■ Electrical Specifications SR2-Plus

Parameter	Min.	Typical	Max.	UNIT
Power Supply	12	-	42	VDC
Output Current (Peak)	0.3	-	2.2	Amps
Cost current of digital input signal	6	10	15	mA
Step Frequency	2	-	2M	Hz
STEP minimum pulse width	250	-	-	ns
DIR minimum pulse width	80	-	-	us
Under Voltage Protection	-	10	-	VDC
Over Voltage Protection	-	52	-	VDC
Input Signal Voltage	4	-	28	VDC
Initialization time	-	-	2.5	S
OUT maximum output current	-	-	100	mA
OUT maximum voltage	-	-	30	VDC

SR4-Plus

Parameter	Min.	Typical	Max.	UNIT
Power Supply	24	-	48	VDC
Output Current (Peak)	1	-	4.5	Amps
Cost current of digital input signal	6	10	15	mA
Step Frequency	2	-	2M	Hz
STEP minimum pulse width	250	-	-	ns
DIR minimum pulse width	80	-	-	us
Under Voltage Protection	-	20	-	VDC
Over Voltage Protection	-	60	-	VDC
Input Signal Voltage	4	-	28	VDC
Initialization time	-	-	2.5	S
OUT maximum output current	-	-	100	mA
OUT maximum voltage	-	-	30	VDC

SR3-mini

Parameter	Min.	Typical	Max.	UNIT
Power Supply	12	-	48	VDC
Output Current (Peak)	0.4	-	3	Amps
Cost current of digital input signal	6	10	15	mA
Step Frequency	2	-	500K	Hz
STEP minimum pulse width	1000	-	-	ns
DIR minimum pulse width	80	-	-	us
Under Voltage Protection	-	10	-	VDC
Over Voltage Protection	-	53	-	VDC
Input Signal Voltage	4	-	28	VDC
Initialization time	-	-	2.5	S
·				

SR8-Plus

Parameter	Min.	Typical	Max.	UNIT
Power Supply	24	-	75	VDC
Output Current (Peak)	2.4	-	7.8	Amps
Cost current of digital input signal	6	10	15	mA
Step Frequency	2	-	2M	Hz
STEP minimum pulse width	250	-	-	ns
DIR minimum pulse width	80	-	-	us
Under Voltage Protection	1	20	1	VDC
Over Voltage Protection	-	85	-	VDC
Input Signal Voltage	4	-	28	VDC
Initialization time	-	-	2.5	S
OUT maximum output current	-	-	100	mA
OUT maximum voltage	-	-	30	VDC



DC Input Controller Type Stepper Drive-ST Series

ST Series

The ST series are compact digital stepper drives with multiple control options and many sophisticated features. Step motors run smoother and faster than ever with features of advanced current control.

With mutiple control options, ST series support stand-alone programming and various bus control as RS-232/485, Ethernet UDP/ TCP, CANopen and Ethernet/IP.

The ST series also has optional encoder feedback with close loop for improved system performance and reliability.



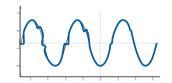
- Advanced Current Control
- Anti-Resonance
- Torque Ripple Smoothing

- Microstep Emulation
- Stall Detection and Stall Prevention

Features

Anti-Resonance

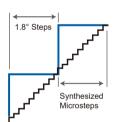
Step motor systems have a natural tendency to resonate at certain speeds. The MSST drives automatically calculate the system's natural frequency and apply damping to the control algorithm. This greatly improves midrange stability, allows higher speeds and greater torque utilization, and also improves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



Provides better motor performance and higher speeds

Microstep Emulation

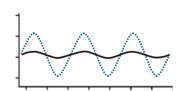
With Microstep Emulation, low resolution systems can still provide smooth motion. The drive can take low resolution step pulses and create fine resolution motion.



Delivers smoother motion in any application

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

Command Signal Smoothing

Command Signal smoothing can soften the effect of immediate changes in velocity and direction, making the motion of the motor less jerky. An added advantage is that it can reduce the wear on mechanical components.



Improves overall system performance

Stall detection & Stall prevention (only available on drives with encoder option)

The optional encoder detects the rotor's position to provide Stall Detection and Stall Prevention unctions.



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.

■ Which model is right for your application?

Step & Direction





- Step & Direction
- CW & CCW pulse
- Master Encoder

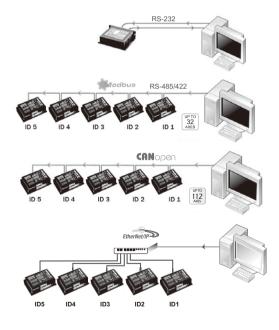
Oscillator / Run-Stop





- Software Configuration
- Two Speeds
- Vary speed with analog input
- Joystick compatible

Host Control





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

Stand Alone Programmable





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



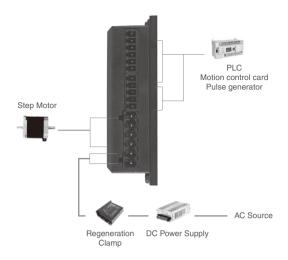
■ ST Lineup Control Modes

-S Pulse Input Control

Controlled via pulse generator.

Main Features

• Accepts three types of pulse signal input as Pulse&Direction, CW/CCW and A/B Quadrature

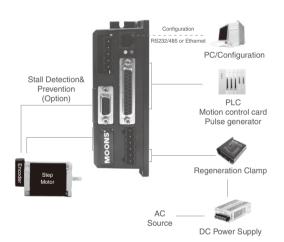


-Q Built-in programmable motion controller (Includes Modbus/RTU Type)

Run stand-alone with sophisticated and functional programs. Commands for controlling motion, inputs & outputs, drive configuration and status, as well as math operations, register manipulation, and multi-tasking.

Main Features

- Stand-alone operation plus Serial host control
- · Math operations
- Register manipulation
- Multi-tasking
- With all features in S type

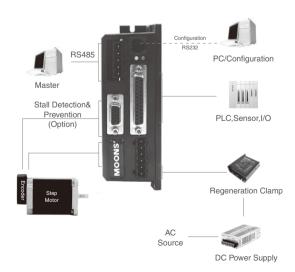


-S/Q Basic type with RS-232/RS-485 communication

Controlled via pulse signals, analog signal or MOONS' SCL streaming series commands.

Main Features

- Pulse control
- Analog control
- Host real time control using SCL via RS-232/RS-485
- Up to 32 axes per channel for RS-485



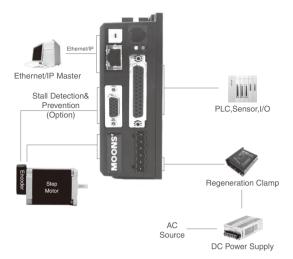


-Q With Ethernet communication

Run stand-alone with sophisticated and functional programs, controlled via MOONS' SCL streaming commands.

Main Features

- Stand-alone operation
- Host real time control using SCL via Ethernet UDP/TCP

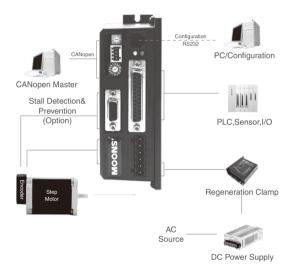


-C With CANopen communication

Operates on a CANopen communication network and conforms to CiA301 and CiA402. It supports runing stored Q programs via MOONS'-specific CANopen objects.

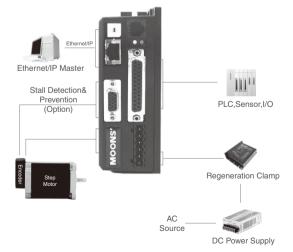
Main Features

- CANopen network
- Up to 112 axes per channel
- · Objects for Q programming



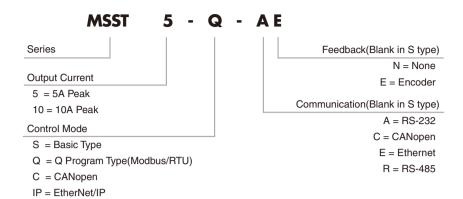
-IP With EtherNet/IP communication

Communicate with PLCs and other industrial devices supporting the Ethernet/IP standard. They can also be commanded to execute stored Q programs.





■ Numbering System



■ Ordering Information

Model	Control	Current	Voltage	Encoder	RS-232	RS-485	Modbus/RTU	CANopen	Ethernet	EtherNet/IP
MSST5-S	- S	0.1-5A	24-48VDC		✓					
MSST10-S	5	0.1-10A	24-75VDC		✓					
MSST5-Q-AN					✓					
MSST5-Q-AE				✓	✓	✓	✓			
MSST5-Q-RN					✓	✓	✓			
MSST5-Q-RE		0.1-5A	24-48VDC	✓	✓					
MSST5-Q-EN									✓	
MSST5-Q-EE				✓					✓	
MSST10-Q-AN	Q				✓					
MSST10-Q-AE	1			✓	✓					
MSST10-Q-RN	1				✓	✓	✓			
MSST10-Q-RE	1	0.1-10A	24-75VDC	✓	✓	✓	✓			
MSST10-Q-EN	1								✓	
MSST10-Q-EE				✓					✓	
MSST5-C-CN		0.4.54	04.40\/D0		✓			✓		
MSST5-C-CE		0.1-5A	24-48VDC	✓	✓			✓		
MSST10-C-CN	- C	0.1.104	0.4.751/00		✓			✓		
MSST10-C-CE		0.1-10A	24-75VDC	✓	✓			✓		
MSST5-IP-EN		0.4.54	04.40\/D0						✓	✓
MSST5-IP-EE]	0.1-5A	24-48VDC	✓					✓	✓
MSST10-IP-EN	- IP	0.1.104	0.4.75\/D0						✓	✓
MSST10-IP-EE		0.1-10A	24-75VDC	✓					✓	✓



■ Drive Specifications

Dual H-Bridge, 4 Quadrant
4 state PWM at 16 KHz
Over-voltage, under-voltage, over-temp, internal motor shorts (phase-to-phase, phase-to-ground)
Automatic idle current reduction to reduce heat after motor stops moving, software selectable current and idle delay
Software selectable from 200 to 51200 steps/rev in increments of 2 steps/rev
Performs high resolution stepping by synthesizing fine microsteps from coarse steps. Reduces jerk and extraneous system resonances.
Raises the system damping ratio to eliminate midrange instability and allow stable operation throughout the speed range and improves settling time
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
Optional encoder feedback for stall detection and stall prevention
Configurations are saved in FLASH memory on-board the DSP
RoHS, CE
90% non-condensing
0 - 40°C when mounted to a suitable heat sink
-S: Approx. 0.2Kg, -Q/C/IP: Approx. 0.3Kg

■ I/O Specifications

-S	STEP, DIR inputs: Optically isolated, differential, 5 VDC, minimum pulse width = 250 ns, maximum pulse frequency = 2 MHz EN input: Optically isolated, 5-12 VDC OUT output: Optically isolated, 24 VDC max, 10 mA max AIN analog input: Range = 0-5 VDC, resolution = 12 bits
-Q/C/IP	X1, X2 inputs: Optically isolated, differential, 5 VDC, minimum pulse width = 250 ns, maximum pulse frequency = 2 MHz X3-X6 inputs: Optically isolated, single-ended, shared common, sinking or sourcing, 12-24 VDC X7, X8 inputs: Optically isolated, differential, 12-24 VDC Y1-Y3 outputs: Optical darlington, single-ended, shared common, sinking, 30 VDC max, 100 mA max Y4 output: Optical darlington, sinking or sourcing, 30 VDC max, 100 mA max Analog inputs IN1, IN2: Can be used as two single-ended inputs or one differential input. Range =software selectable 0-5, +/-5, 0-10, or +/-10 VDC. Software configurable offset, deadband, and filtering. Resolution = 12 bits (+/-10 volt range), 11 bits (+/-5 or 0-10 volt range).



How To Get Samples Quickly

If you require a specific configuration, and wish for our engineering department to provide samples that meet your critical parameters, please fill out the application data sheet below and sent to MOONS'.

(E-mail: info@moons.com.cn)

Application info. of Linear Step Motors & Linear Slides	
Customer Info.	
Customer: Contact Info.:	_
Project No.: Telephone:	=
Project Info.	
Products Category : Linear Step Motors Linear Slides Stepper Drive	
Background: New Design ,Competitor: Substitution Project ,Current State:	
Quantity of samples: EAU: Pain:	
Expected Delivery Time: Target Price: USD/EA	
Design Info.	
Installation: Horizontal Vertical	
Driving Condition: Voltage : V Current : A	
Thrust Force: N Working Speed: mm/s	
Stroke: mm Repeatability: ± mm	
Working Frequency: cycles per hour, hours per day.	
Additional Options : Add Encoder Add Brake No additional	
Environment : Indoor(Normal) Indoor(Dust-free) Medium or Heavy Dust Sticky Substanc	:e
High Humidity Salt Spray High Temp. C Low Temp.	_℃
Vacuum Others:	
Industry	
Factory Automation Biochemical Analysis Medical Science 3D Printer Automatic Ven	iding
Semiconductor Mfg. Lithium Battery Mfg. Photovoltaic Mfg. Electron Mfg. Measuring Institution Coordinate Robot Packaging Equipment Others:	rumen
Application Description	
(Please describe your application so we can ensure the best possible solution.)	

Worldwide Service Map



MOONS' Business Philosophies

Customer satisfaction

MOONS' aims to enhance customer MOONS' values and respects our satisfaction through the provision development of innovative solutions, manufacture of high quality products, on-time delivery and outstanding customer support.

Employee satisfaction

employees' input and encourages them to grow together with the company. We have been working to develop tools and trainings to build a thriving culture of excellence internally to support the future growth of our employees and the company.

Partnership

MOONS' strongly believes in a true integrated partnership between all partners in business including customers, distributors and all these in supply chain. As a result of this philosophy, we endeavor to provide the best value contribution to all partners, which can help our partners improve their competiveness to achieve the winwin situation.

168 Mingjia Road, Minhang District, Shanghai 201107, P.R. China

Tel: +86 (0)21 52634688 Fax:+86 (0)21 52634098

■ MOONS' International Trading Company

4/F, Building 30, 69 Guiqing Road, Cao He Jin Hi-Tech

Park, Shanghai 200233, P.R. China

Tel: +86 (0)21 64952755 Fax:+86 (0)21 64951993

Domestic Offices

Shenzhen

Room 503, Building A7, Nanshan iPark, No. 1001, Xueyuan Ave, Nanshan Dist, Shenzhen 518071, P.R. China

Tel: +86 (0)755 25472080 Fax:+86 (0)755 25472081

Beijing

Room 816, Tower B, China Electronics Plaza, 3 Danling Street, Haidian District, Beijing 100080, P.R. China

Tel: +86 (0)10 58753312 Fax:+86 (0)10 58752279

Nanjing

Room 1101–1102, Building 2, New Town Development Center, No.126 Tianyuan Road, Moling Street, Jiangning District, Nanjing 211106, P.R. China

Tel: +86 (0)25 52785841 Fax:+86 (0)25 52785485

Qingdao

Room 1012, Zhuoyue Tower, No.16 Fengcheng Road, Shibei District, Qingdao 26000, P.R. China

Tel: +86 (0)532 80969935

Fax:+86 (0)532 80969938

Wuhan

Room 3001, World Trade Tower, 686 Jiefang Avenue, Jianghan District, Wuhan 430022, P.R. China

Tel: +86 (0)27 85448742 Fax:+86 (0)27 85448355

Chenadu

Room 1917, Western Tower, 19, 4th Section of South People Road, Wuhou District, Chengdu 610041, P.R. China

Tel: +86 (0)28 85268102 Fax:+86 (0)28 85268103

Xi'an

Room 1006, Tower D, Wangzuo International City, 1 Tangyan Road, Xi'an 710065, P.R. China

Tel: +86 (0)29 81870400 Fax:+86 (0)29 81870340

Ningbo

Room 309, Tower B, Taifu Plaza, 565 Jiangjia Road, Jiangdong District, Ningbo, 315040, P.R. China

Tel: +86 (0)574 87052739 Fax:+86 (0)574 87052365

Guangzhou

Room 4006, Tower B, China Shine Plaza, 9 Linhe Xi Road, Tianhe District, Guangzhou 510610, P.R. China

Tel: +86 (0)20 38010153 Fax:+86 (0)20 38103661

North America Company

MOONS' INDUSTRIES (AMERICA), INC.

1113 North Prospect Avenue, Itasca, IL 60143 USA

Tel: +1 630 8335940 Fax: +1 630 8335946

APPLIED MOTION PRODUCTS, INC.

404 Westridge Dr. Watsonville, CA 95076, USA

Tel: +1 831 7616555

LIN ENGINEERING, INC.

16245 Vineyard Blvd., Morgan Hill, CA 95037

Tel: +1 408 9190200 Fax:+1 408 9190201

European Company

MOONS' INDUSTRIES (EUROPE) S.R.L.

Via Torri Bianche n.1 20871 Vimercate(MB) Italy

Tel: +39 039 6260521 Fax: +39 039 9631409

South-East company

MOONS' INDUSTRIES (SOUTH-EAST ASIA) PTE. LTD.

33 Ubi Avenue 3 #08-23 Vertex Singapore 408868

Tel: +65 66341198 Fax: +65 66341138

Japan Company

MOONS' INDUSTRIES JAPAN CO., LTD.

Room 602, 6F, Shin Yokohama Koushin Building, 2–12–1, Shin–Yokohama, Kohoku–ku, Yokohama, Kanagawa, 222–0033, Janpan

Tel: +81 (0)45 4755788 Fax: +81 (0)45 4755787



http://www.moons.com.cn E-mail: info@moons.com.cn

MOONS'
moving in better ways

All specifications and technical parameters of the products provided in this catalog are for reference only, and are subject to change without notice.
 For details, please contact our sales team.