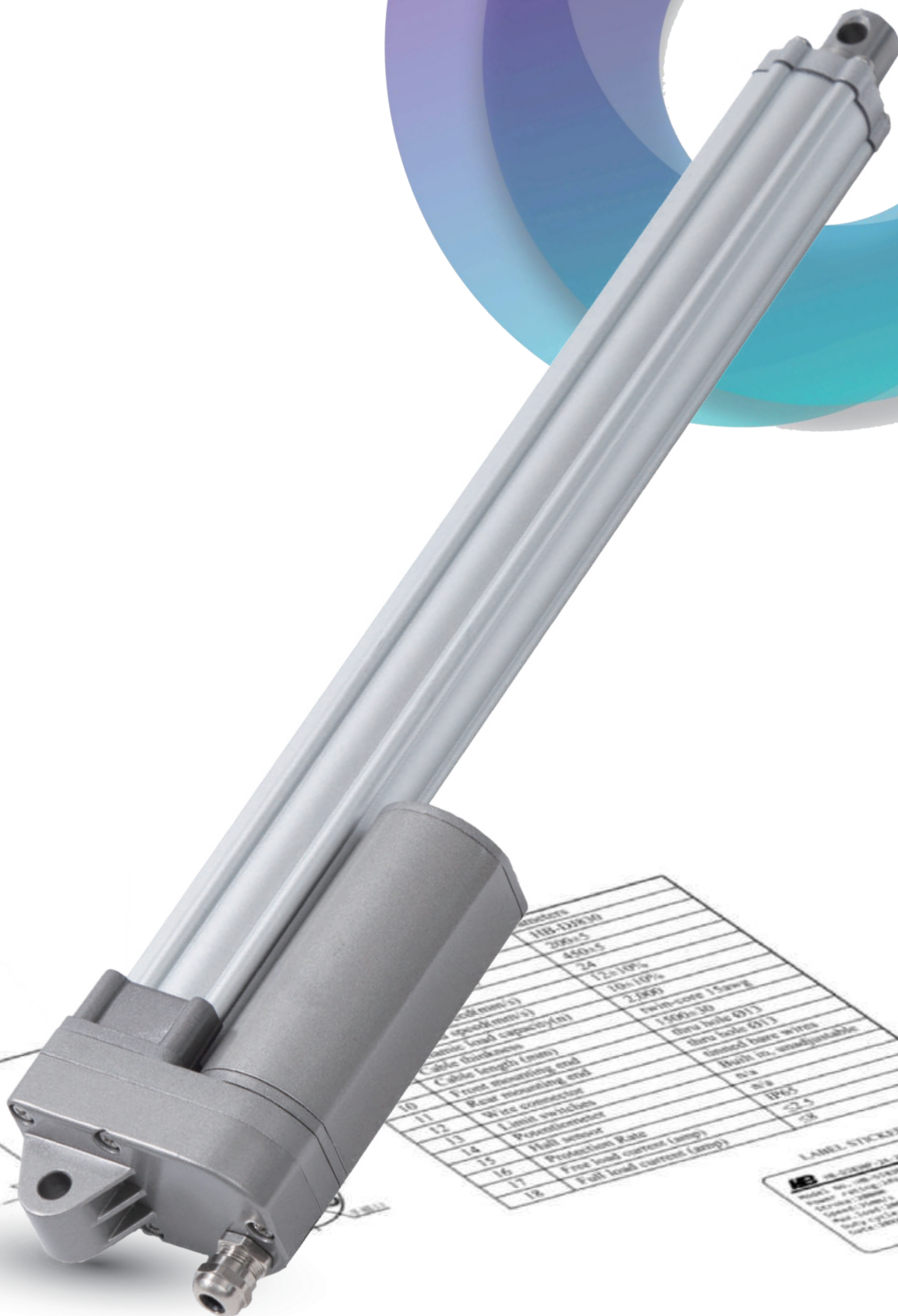


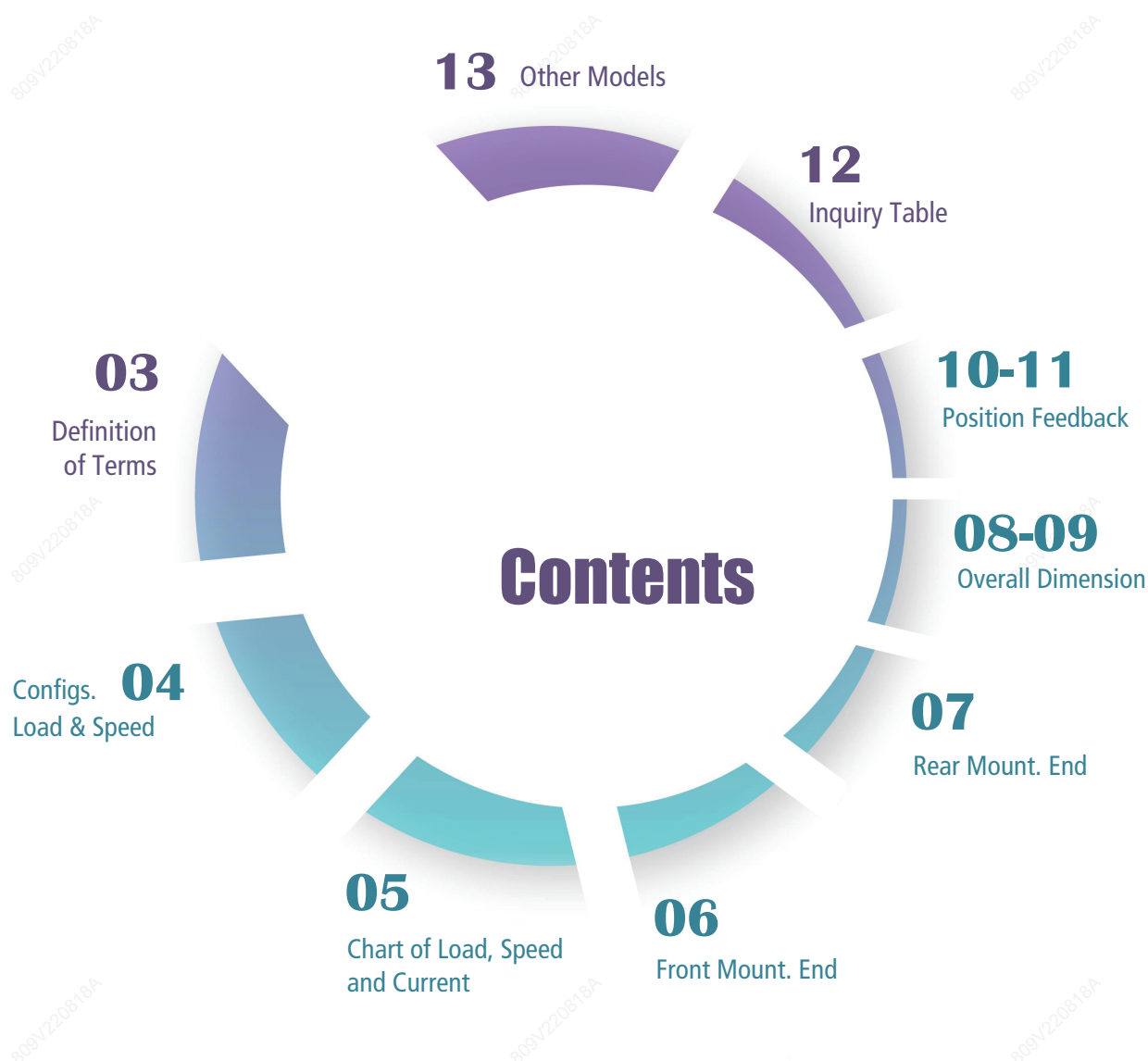


10	Front mounting end	12x10%
11	Rear mounting end	10x10%
12	Wire connector	2.000
13	Limit switches	1500x30
14	Proximity sensor	third hole Ø17
15	Full sensor	third hole Ø17
16	Protection Rate	Ground bare wires
17	Free load current (amp)	None in. unsuppliable
18	Full load current (amp)	n/a
		n/a
		IP65
		≤2.5
		28

LABEL STICKER:

MB MB-2000-25 100-400-05-15

Model No.: MB-2000-25
 Power: 2.000W
 Distance: 100mm
 Speed: 1000mm/s
 Max. Load: 2000g
 Total Cycle Time: 1000-1500 sec
 Serial: 1000-1500-05-15
 Made in China
 Manufacturer: MB



Dear Customers ,

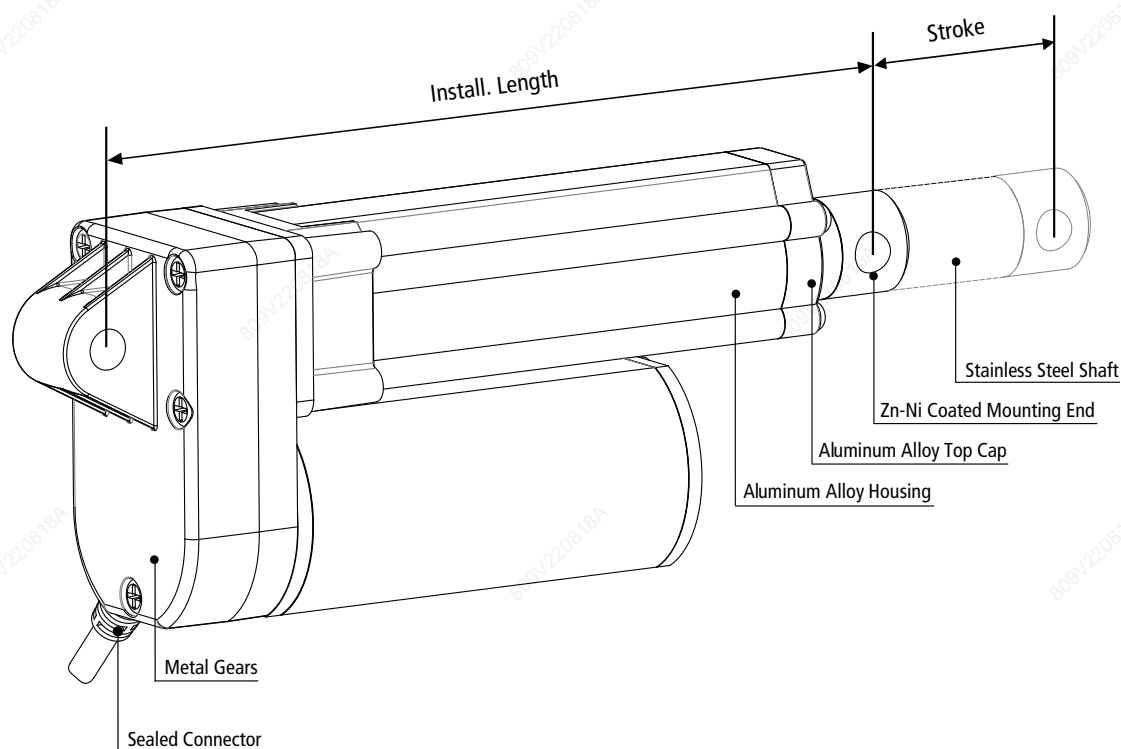
What a big world ! But thanks to crazy technology, it's been getting smaller than ever, so that we can meet here from all corners of the world. It's our pleasure to have opportunities to provide you with a variety of products and services to help with the implementation of your amazing designs.

We present our products thoroughly in front of you by using refined parameters and words, so that you can find the most suitable solution.

Next, we will take you to a deeper understanding of Hongba's products. Please read this datasheet carefully. You are also welcome to leave valuable comments and suggestions to help Hongba improve itself continuously.

HB Engineer Team

Definition of Terms



Stroke	How far the rod extends outwards from the body. The difference between fully extended length and fully retracted length. [Customizable]
Install. Length	The fully closed size. [Customizable]
Front Mount. End	Optional.
Rear Mount. End	Optional.
Mount. Holes	Can be rotated by 90°.
Dynamic Force	The max force that actuator is able to carry when it is moving.
Selflocking	The max force that linear actuator is able to hold when it stops.
Weather Protection	IP XX. The first digit: dust protection. The second digit: liquid protection. Please refer to [Table 1].
Duty Cycle	Continuous working time 'a', rest time 'b'. Duty cycle is $a/(a+b) \times 100\%$. Please refer to [Table 1].
Speed	Include free-load speed and full-load speed.
Hall Sensor	Provide pulse signals. Displacement measurement is achieved through pulse counting, and the phase difference of the waveform can be used to identify the rotation direction of motor. Check [Table 1] to see if it is available.
Potentiometer	Potentiometer is a three-terminal variable resistor with a rotating contact which is used to measure the displacement of actuators. Check [Table 1] to see if it is available.
Manual Override	Can be used to extend or retract the actuator without power for emergency. Check [Table 1] to see if it is available.

Configs.

Color	☒ Sliver	☐ Black	☐ Customized			
Lead Screw	☒ Acme Screw	☐ Ball Screw				
Operation Mode	☒ Electrical	☐ Electrical + Manual				
Application	☒ Industrial	☐ Furniture	☐ Medical			
Operational Temp.	☐ 5 to 40℃	☒ -10 to 65℃	☒ -40 to 65℃			
Operating Noise	☐ ≤45 dB	☐ ≤50 dB	☒ ≤65 dB			
Stroke Range	☒ 50-600mm	☒ 600-1,000mm				
Dynamic Load	☐ ≤1,200N	☒ ≤2,000N	☐ ≤4,000N	☐ ≤7,000N	☐ ≤12,000N	☐ ≤20,000N
Duty Cycle	☐ 10%	☐ 20%	☒ 25%*	☐ 50%	☐ 100%	
Motor Type	☒ Brushed DC	☐ Stepper Motor	☐ Brushless	☐ Servo Motor		
Overload Protection	☒ None	☐ Clutch	☐ Electronic	☐ Thermistor		
Weather Protection	☐ IP20	☐ IP43	☐ IP54	☐ IP65	☒ IP66	
Position Feedback	☒ None	☒ Endstop Signal	☒ Hall Sensor	☒ Potentiometer	☐ Encoder	☒ Reed Switches
Input Voltage	☒ 12VDC	☒ 24VDC	☒ 36VDC	☒ 48VDC	☐ 110VAC	☐ 220VAC

*Don't exceed four minutes continuous working at full load with 20℃.

☒ Options for DJ809 ☐ Other Models

[Table 1]

Parameters

Fill in code:

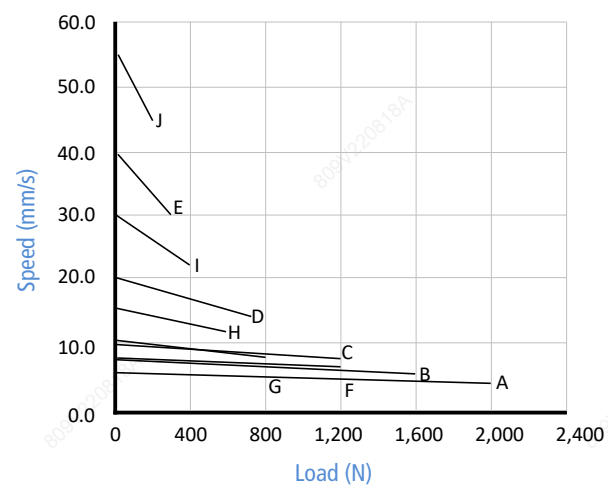
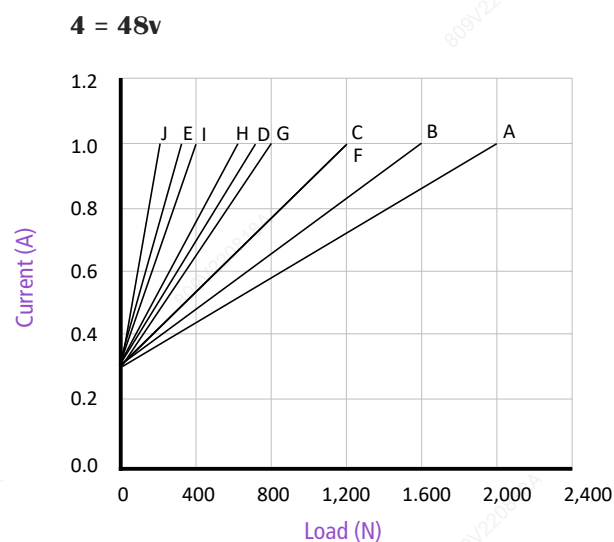
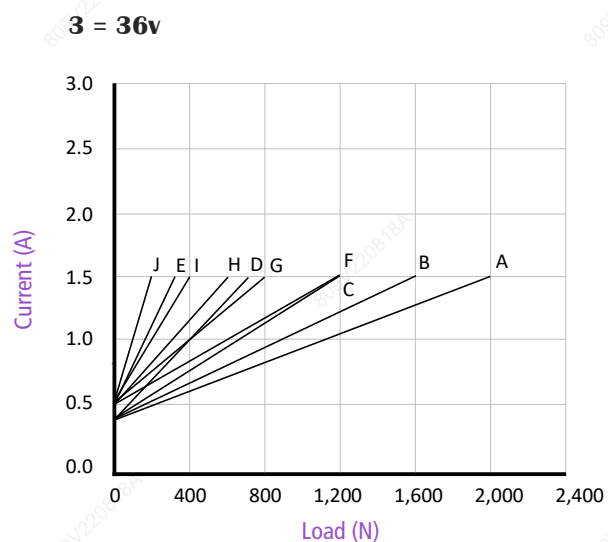
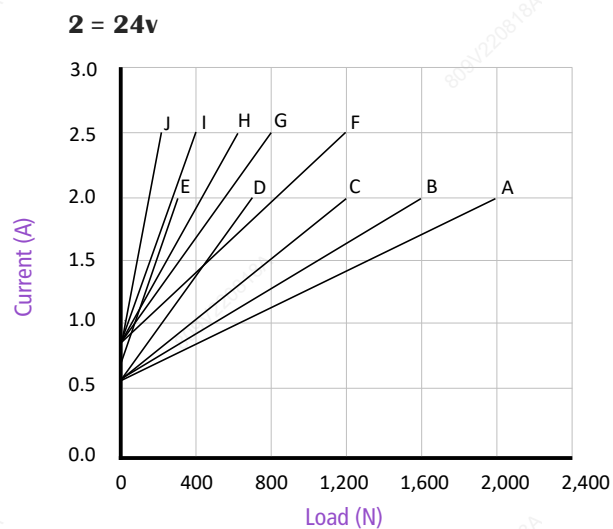
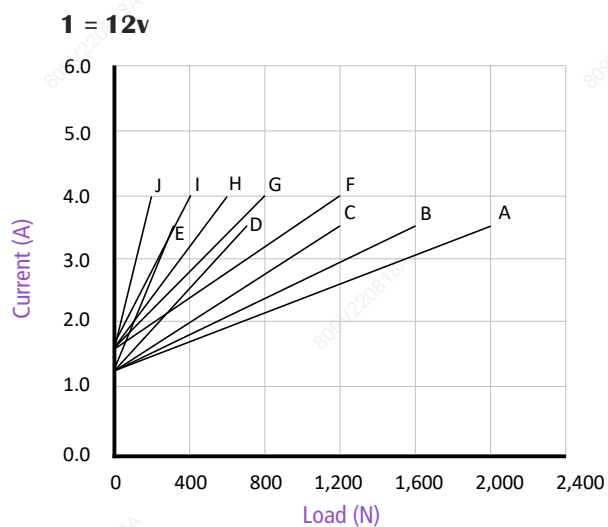
Code	Max. Dynamic Load ^②	Max. Self-locking	Reduction Ratio	Pitch	Speed±10% ^① (mm/s)		Max. Stroke w/o Pot. ^③	Max. Stroke with Pot. ^③
	(N)	(N)	-	(mm)	Free Load	Full Load	(mm)	(mm)
A	2,000	3,000	40:1	3.17	5	4	1,000	200
B	1,600	2,200	30:1	3.17	7	5.5	1,000	200
C	1,200	1,600	20:1	3.17	10	8	1,000	200
D	700	900	10:1	3.17	20	14	1,000	200
E	300	400	5:1	3.17	40	30	1,000	200
F	1,200	1,600	40:1	5	8	6	1,000	300
G	800	1,100	30:1	5	10.5	8	1,000	300
H	600	800	20:1	5	15	11	1,000	300
I	400	600	10:1	5	30	22	1,000	300
J	200	300	5:1	5	55	45	1,000	300

[Table 2]

- ① Measurements are made with actuators in connection with stable power supplies and ambient temperature at 20℃.
- ② For example, when real load is 1200N, choosing code (C) is fine. Of course, you can also choose (F) (B) or even (A) which come with more load buffer, higher safety factor and longer product service time.
- ③ There are many factors affecting the "customizable maximum stroke", such as load, speed, force direction, etc., so the real application scenarios should be considered. If the parameters you required are not listed, please contact our sales engineers.

Charts

Fill in code:

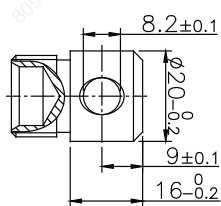


* Measurements are made with actuators in connection with stable power supplies and ambient temperature at 20°C.

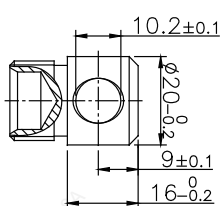
Front Mounting End

1. Please contact our sales team if none of the options below meet your requirements.

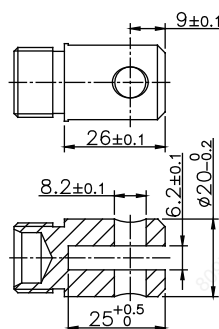
Fill in code:



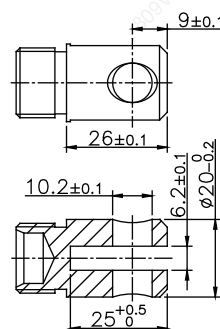
F01



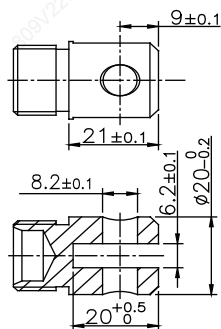
F02



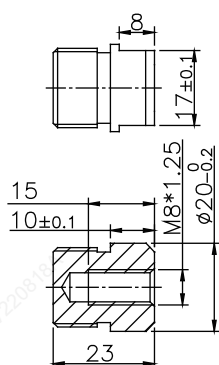
F03



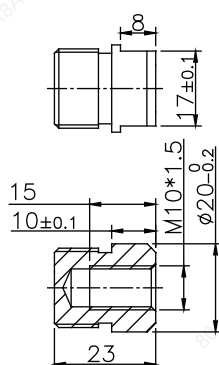
F04



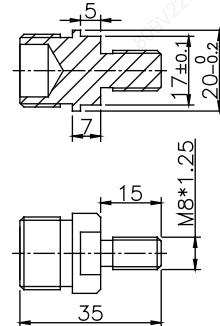
F05



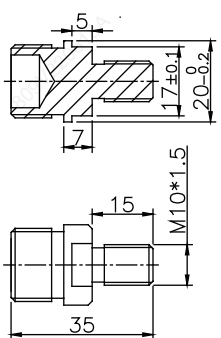
F06



F07

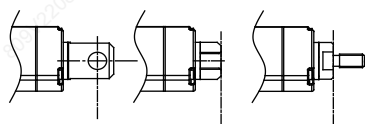


F08



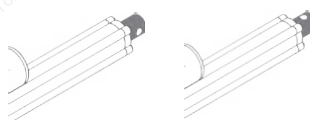
F09

2. Start of Installation Length



3. Hole Directions

Fill in code:



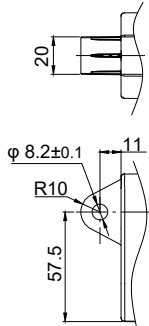
1 = 90°

2 = 0°

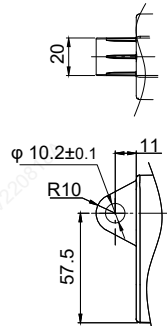
Rear Mounting End

1. Please contact our sales team if none of the options below meet your requirements.

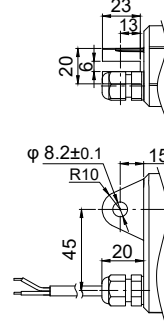
Fill in code:



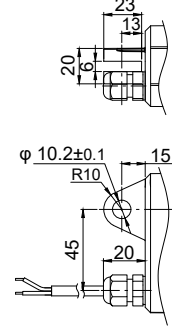
R01



R02

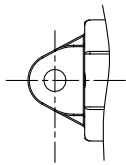


R03



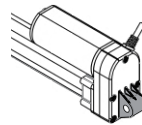
R04

2. End of Installation Length

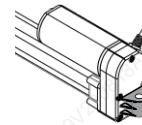


3. Hole Directions

Fill in code:



1 = 90°



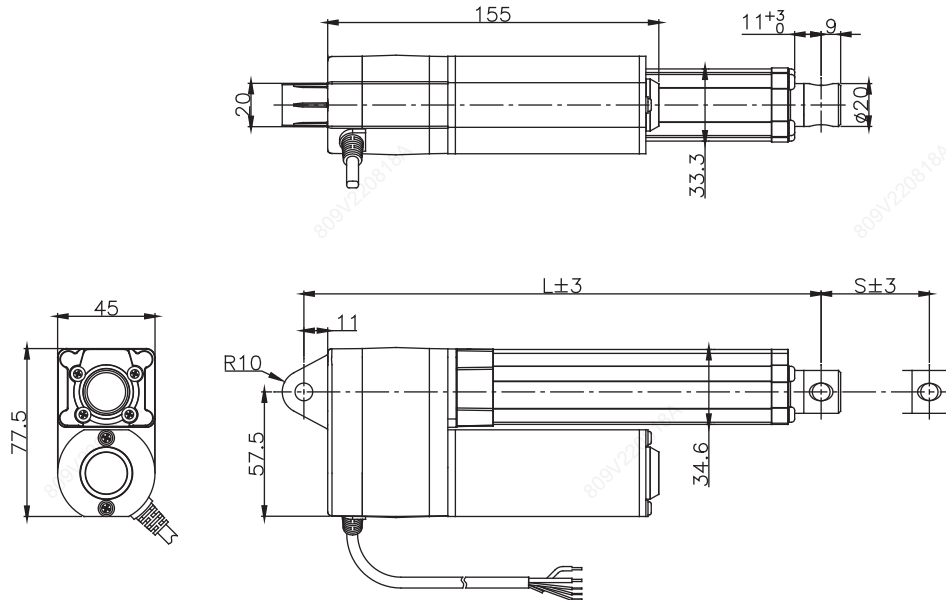
2 = 0°

* not applied to R03 & R04

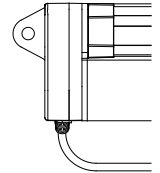
Dimension

S = mm, L = mm

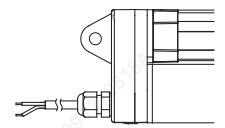
1. Overall Size [with Potentiometer]



Fill in code:



A: sideway cable outlet
*not applied to R03 & R04



B: bottom cable outlet

2. Installation Size ($L \geq A+B+C$)

A. Mounting Ends	Rear Ends	
Front Ends	R01, R02	R03, R04
F01, F02, F05-F09	S+140	S+144
F03, F04	S+147	S+151

[Table 7]

B. Stroke Range	mm
30 - 300	+ 0

[Table 8]

C. Reed Switch	mm
Optional	+ 10

[Table 9]

Example

Front Mount. End	Rear Mount. End	Stroke	A	B	w/o Reed Switch	$L \geq A+B+C$
F04	R01	300	300+147	+0	C = 0	≥ 447

[Table 10]

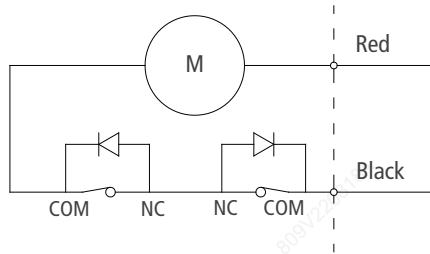
Signal Feedback

Fill in code:

- 0 = None
- 1 = Endstop Signal
- 2 = Potentiometer
- 3 = Hall Effect Sensor
- 4 = Reed Switches

0. Standard Limit Switches without Signal feedback

Standard DJ809 comes with limit switches that shut off the motor automatically at the end of its travel.

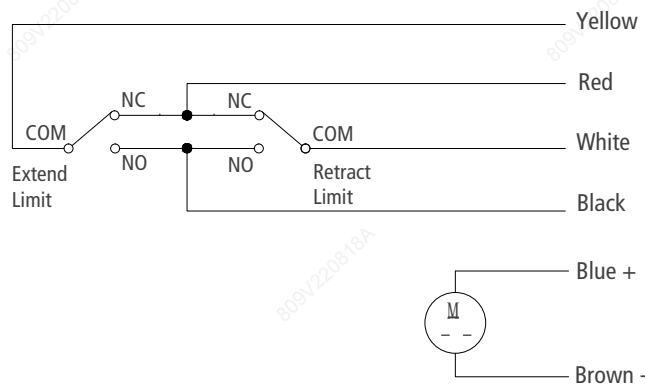


Wiring		
	Black	Red
Extend	-	+
Retract	+	-

[Table 11]

1. Endstop Signal

The actuator can be equipped with endstop signals output, but it will not auto-stop at neither end of the travel.



Power Wire Coding		
	Brown	Blue
Extend	-	+
Retract	+	-
Signal Wire Coding		
Black	Extend / Retract limit, N.O.	
Red	Extend / Retract limit, N.C.	
Yellow	Extend limit. COM.	
White	Retract limit. COM.	

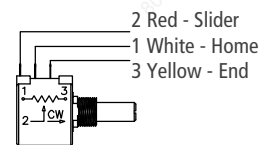
[Table 12]

2. Potentiometer

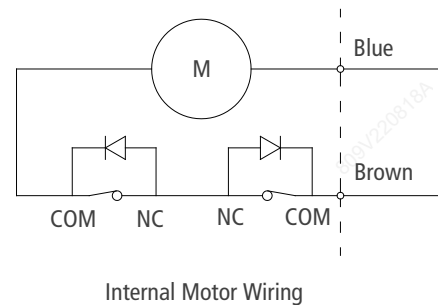
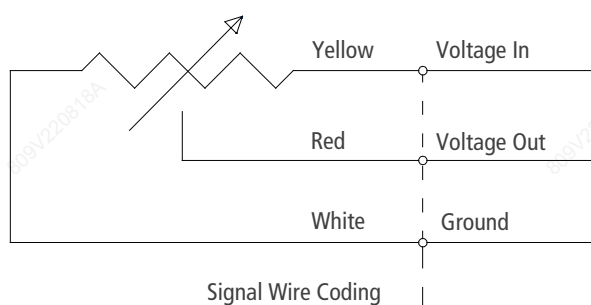
Code	Max. Stroke	Resistance Value per mm
A, B, C, D, E	200 mm	0.047K Ω
F, G, H, I, J	300 mm	0.030K Ω

* Start value 0K Ω

[Table 13]



Connect 1+2, resistance value increase, actuator extend.

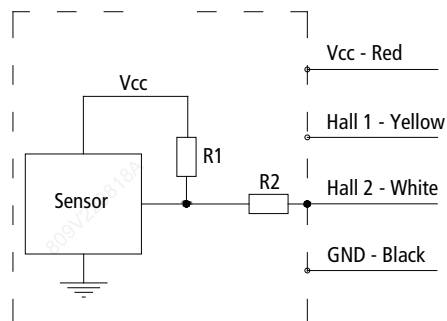


3. Hall Sensor (standard dual-sensor)

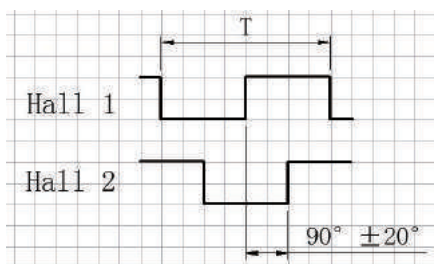
	Pulse Equivalent Per Sensor (pulse/mm)	
	1 pole pair	4 pole pairs (standard)
A	12.60	50.40
B	9.45	37.80
C	6.30	25.20
D	3.15	12.60
E	1.57	6.30
F	8.00	32.00
G	6.00	24.00
H	4.00	16.00
I	2.00	8.00
J	1.00	4.00

[Table 14]

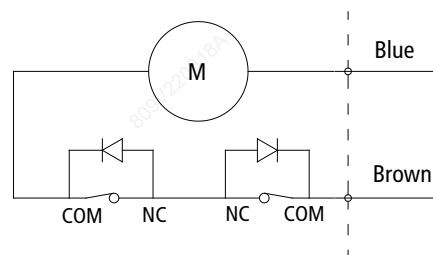
Wire Coding



* Power supply (V)= 5~15V



Oscillogram



Internal Motor Wiring

4. Reed switch

Standard N.O. contact. Optional N.C. contact.

Inquiry Table

RESET

	Voltage	1 = 12VDC 2 = 24VDC 3 = 36VDC 4 = 48VDC
	Load & Speed	See [Table 2]
	Stroke (mm)	Please contact us if the stroke you required is out of range.
	Install. Length (mm)	See Table [3] - [10]
	Front Mount. End	F01 - F09 FX = Custom
	Rear Mount. End	R01 - R04 RX = Custom
	Mount. Hole Direction	Front 1 = 90° 2 = 0 Rear 1 = 90° 2 = 0°
	Signal Feedback	0 = None 1 = Endstop Signal 2 = Potentiometer 3 = Hall Sensor 4 = Reed Switches
	Cable Length	1 = 500 mm 2 = 1,000 mm 3 = 2,000 mm X = Custom
	Connector	A = Sideway Cable Outlet 0 = Tinned Bared Wires B = Bottom Cable Outlet 1 = Match with KZ-series Controller X = Custom
	Working Temperature	1 = -10 °C to 65 °C 2 = -40 °C to 65 °C
Application	Working Frequency	Estimated cycles work per day
	End Use	Indoor or outdoor, and please describe your end use.
	Your contact	Company Name Tel. Email

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Wuxi Hongba Mechanical Electrical Equipment. Co., Ltd.

Cell:

Email:

Tel.: 0510-85436730

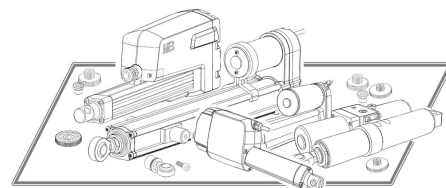
Website: hbactuator.com

Address: 5 Lijiang Rd. Xinwu District, Wuxi 214028 China

 You may also be interested in...

Model	Load (N)	Stroke (mm)	Speed (mm/s)	Install.Length (mm)	Overall Size (mm)	IP rate	Application
DJ803 (Track)	1,500	50-600	16-32	155	155 x 77.4 x L	IP20	Furniture
DJ823	3,000	50-600	5.0-15	S+155	148.5 x 80 x L	IP54	Furniture Medical Care
DJ810	4,000	50-600	5.0-32	S+150	156 x 83 x L	IP43	Furniture Medical Care
DJ801	6,000	50-600	4.7-28	S+175	156 x 83 x L	IP43	Furniture Medical Care
DJ822	6,000	50-600	5.0-16	S+175	166 x 91 x L	IP54	Furniture Medical Care
DJ806	1,200	50-600	5.5-80	S+105	40 x 75 x L	IP66	Industrial
* DJ809	2,000	50-600	5.0-55	S+108	45 x 77.5 x L	IP66	Industrial
DJ825	2,000	50-600	6-15	S+115	43 x 84.5 x L	IP66	Furniture Medical Care Industrial
DJ820	2,500	50-600	2.5-22	S+120	64.5 x 102 x L	IP66	Furniture Medical Care Industrial
DJ820P	1,000	50-600	25-50	S+140	64.5 x 102 x L	IP66	Industrial
DJ830	4,000	50-600	5.5-35	S+200	76 x 151 x L	IP65	Industrial
DJ830P	7,000	50-600	5.5-35	S+200	76 x 151 x L	IP65	Industrial
DJ808	7,000	50-600	5.5-35	S+250	77 x 151 x L	IP65	Industrial
DJ805G	12,000	50-1,000	6.5-37	S+200	102 x 154 x L	IP66	Industrial

* You are now reading...



For more information, please visit our website hbactuator.com