

HB-DJ812

Data Sheet

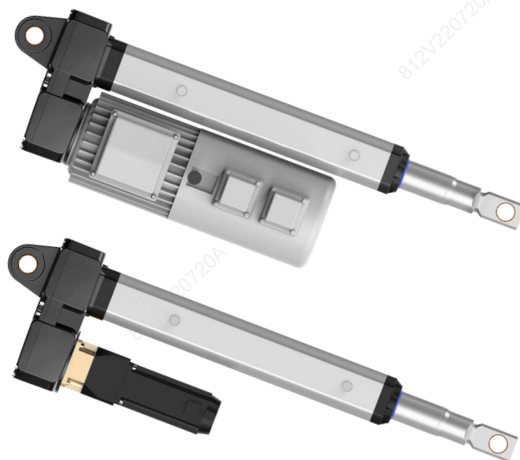
812V220T20A



WUXI HONGBA
Linear Actuator

Overview

1. Optional AC/ Servo/ Brushed/ Brushless motor ;
2. Customizable stroke 50mm - 1000mm ;
3. Speed 19.5-83 mm/s ;
4. Max force 20,000 N ;
5. Operating temp. -15 °C to 40 °C ;
6. Endstop signal output, not cut off power supply automatically at either end of stroke ;
7. Weather protection IP55 ;
8. CE certified ;
9. Suggest re-greasing every 3000 cycles.



Parameters

1. Three-phase AC Motor

Code	Ratio (Belt)	Ratio (Gear)	Free-Load Speed	Full-Load Speed	Max. Dynamic Force	Max. Self-Locking	Free-Load Current	Full-Load Current	Ball Screw Item No.	Parameters of AC Motor
			mm/s	mm/s	N	N	A	A		
A	20 : 40	1 : 3	20.8	19.5	20,000	22,000	0.4	2.2	GQ3205	380V AC, 0.75KW, 50Hz, 4-pole, 1500 rpm, 30-70Hz
B	27 : 34	1 : 3	33.1	30.9	10,000	12,000	0.4	1.7	GQ3205	
C	20 : 40	N/A	62.5	58.3	5,000	7,000	0.4	1.6	GQ3205	

* Duty cycle 100% with full load and ambient temperature at 20°C.

[Table 1]

2. Servo Motor

Code	Ratio (Belt)	Ratio (Gear)	Free-Load Speed	Full-Load Speed	Max. Dynamic Force	Max. Self-Locking	Free-Load Current	Full-Load Current	Ball Screw Item No.	Parameters of Servo Motor
			mm/s	mm/s	N	N	A	A		
E	20 : 40	1 : 6	20.8	20	20,000	22,000	0.7	3.7	GQ3205	220V AC, 0.75KW, 50Hz 3,000 rpm
F	20 : 40	1 : 3	41.7	40	10,000	12,000	0.7	3.7	GQ3205	
G	27 : 34	1 : 3	66.2	65	5,000	7,000	0.7	3.0	GQ3205	

* Duty cycle 100% with full load and ambient temperature at 20°C.

[Table 2]

3. Brushless Motor - 48VDC

Code	Ratio (Belt)	Motor Rotation	Free-Load Speed	Full-Load Speed	Max. Dynamic Force	Max. Self- Locking	Voltage	Free-Load Current	Full-Load Current	Ball Screw Item No.
		rpm	mm/s	mm/s	N	N		A	A	
H	20 : 40	500	21	20	20,000	22,000	48	1.9	18	GQ3205
I	20 : 40	1,000	42	40	10,000	12,000	48	1.9	18	GQ3205
J	20 : 40	2,000	83	80	5,000	7,000	48	1.9	18	GQ3205

* Duty cycle 50% with full load and ambient temperature at 20°C.

[Table 3]

4. Brushed Motor - 48VDC

Code	Ratio (Belt)	Motor Rotation	Free-Load Speed	Full-Load Speed	Max. Dynamic Force	Max. Self- Locking	Voltage	Free-Load Current	Full-Load Current	Ball Screw Item No.
		rpm	mm/s	mm/s	N	N		A	A	
K	20 : 40	500	21	20	20,000	22,000	48	1.9	16.5	GQ3205
L	20 : 40	1,000	42	40	10,000	12,000	48	1.9	16.5	GQ3205
M	20 : 40	2,000	83	80	5,000	7,000	48	1.9	16.5	GQ3205

* Duty cycle 20% with full load and ambient temperature at 20°C.

[Table 4]

5. Brushed DC Motor - 24V

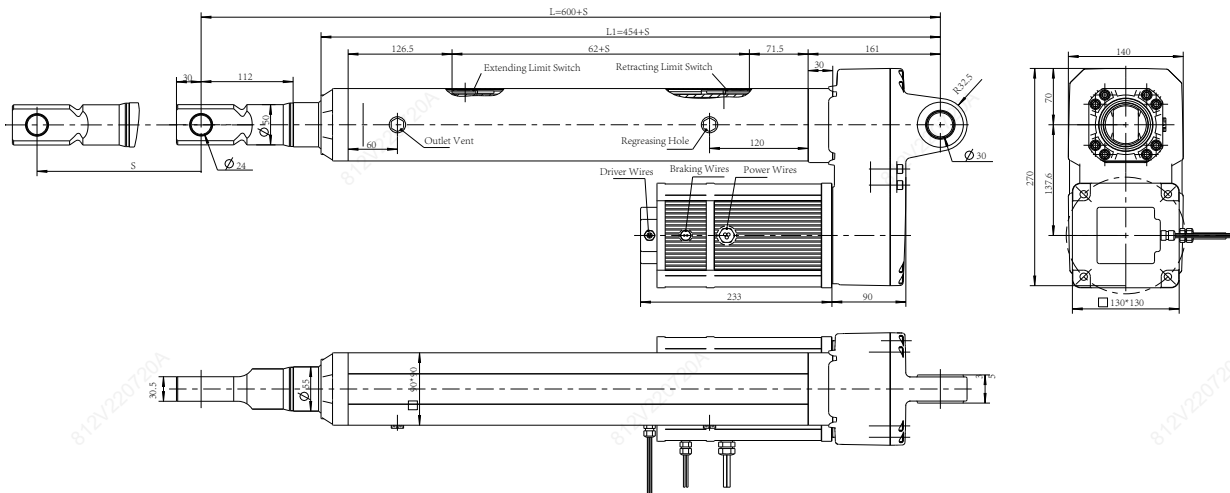
Code	Ratio (Belt)	Motor Rotation	Free-Load Speed	Full-Load Speed	Max. Dynamic Force	Max. Self- Locking	Voltage	Free-Load Current	Full-Load Current	Ball Screw Item No.
		rpm	mm/s	mm/s	N	N		A	A	
N	20 : 40	500	21	20	20,000	22,000	24	3.8	33	GQ3205
O	20 : 40	1,000	42	40	10,000	12,000	24	3.8	33	GQ3205
P	20 : 40	2,000	83	80	5,000	7,000	24	3.8	33	GQ3205

* Duty cycle 15% with full load and ambient temperature at 20°C.

[Table 5]

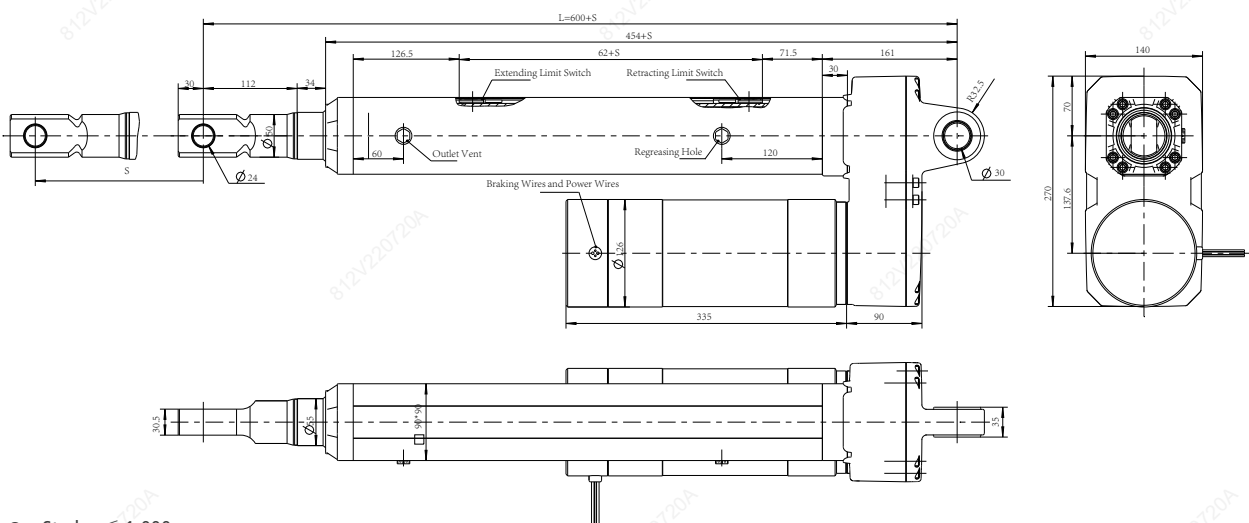
Dimension

3. Brushless DC Motor



- Stroke $\leq 1,000$ mm
- Install. Length (L) = Stroke (S) + 600mm
- Standard front hole 90° (as shown) or optional 0°.

4. Brushed DC Motor



- Stroke $\leq 1,000$ mm
- Install. Length (L) = Stroke (S) + 600mm, must be ≥ 700 mm
- Standard front hole 90° (as shown) or optional 0°.

Inquiry Table

RESET

	Motor Type	1 = 220V AC Motor 4 = 48V Brushed DC Motor	2 = 380V AC Servo Motor 5 = 24V Brushed DC Motor	3 = 48V Brushless DC Motor
	Code	See Table 1 - 5		
	Stroke (mm)	≤ 1,000 mm		
	Install. Length (mm)	= stroke + 600mm (Install. length ≥ 800mm for three-phase AC motor)		
	Front Mount. End	F01 = Thru. Hole φ 24 FX = Custom		
	Rear Mount. End	R01 = Thru. Hole φ 30 RX = Custom		
	Mount. Hole Direction	Front 1 = 90° 2 = 0° Rear 1 = 90° X = Custom		
	Lead Screw	1 = Ball Screw		
	Cable Length	1 = 600mm 2 = 1,000mm X = Custom		
	Connector	0 = Tinned bared wires X = Custom		
	Working Frequency	Estimated cycles work per day		
	End Use	Indoor or outdoor, end use (Understand your application could help facilitate a good solution.)		
	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