

MODEL DJ809

- Compact Design
- Stainless Steel Shaft
- IP65 Protection



Specification

Model		DJ809
Input Voltage	(V DC)	12 or 24
Stroke Length	(mm)	50 to 600
Load Capacity	(N)	Max 2,000
Travel Speed	(mm/s)	5 to 55
Limit Switch		Integrated
Duty Cycle		25% (2 min continuous moving)
IP Rating		IP65
Operating Temp.	(°C)	-40 to 65
Cable Length	(mm)	500
Signal Feedback		Potentiometer or Hall Sensor

1. Load/ Stroke/ Speed

Code	Gear Ratio	Dynamic Load (N)	Speed (mm/s) ±10%		Current (amp)				Max. Stroke w/o Sensor (mm)	Max. Stroke w/ Hall Sensor (mm)	Max. Stroke w/ Potentiometer (mm)
			Free Load	Full Load	12v		24v				
					Free Load	Full Load	Free Load	Full Load			
A	40:1	2,000	5.0	4.0	1.2	3.5	0.6	2.0	400	400	200
B	30:1	1,600	7.0	5.5	1.2	3.5	0.6	2.0	400	400	200
C	20:1	1,200	10.0	8.0	1.2	3.5	0.6	2.0	400	400	200
D	10:1	700	18.0	14.0	1.2	3.5	0.6	2.0	600	600	200
E	5:1	300	38.0	30.0	1.2	3.5	0.7	2.0	600	600	200
F	40:1	1,200	8.0	6.0	1.5	4.0	0.8	2.5	400	400	300
G	30:1	800	10.0	8.0	1.5	4.0	0.8	2.5	400	400	300
H	20:1	600	14.0	11.0	1.5	4.0	0.8	2.5	600	600	300
I	10:1	400	28.0	22.0	1.5	4.0	0.8	2.5	600	600	300
J	5:1	200	55.0	45.0	1.5	4.0	0.8	2.5	600	600	300

* The above data are typically made with a stable power supply and an ambient temperature.

2. Overall Dimension

a. w/o Potentiometer

S (mm)	L (mm)	Formula
50	158	L= S+ 108 mm
100	208	
150	258	
200	308	
250	358	
300	408	L= S+ 150 mm
350	500	
400	550	
450	600	
500	650	
550	730	L= S+ 180 mm
600	780	

S: Stroke Length
L: Min Mounting Length

b. with Potentiometer

S (mm)	L (mm)	Formula
50	190	L= S+ 140 mm
100	240	
150	290	
200	340	
250	390	
300	440	L= S+ 140 mm
350	490	
400	540	
450	590	
500	640	
550	730	L= S+ 180 mm
600	780	

S: Stroke Length
L: Min Mounting Length

Optional Parts

1 Hall Sensor Feedback

Code	Resolution (pulse/mm)	Remark
A	50.40	a. 4 pairs of poles b. Two pulse waves with 90° ± 20° difference.
B	37.80	
C	25.20	
D	12.60	
E	6.30	
F	32.00	
G	24.00	
H	16.00	
I	8.00	
J	4.00	

2 Potentiometer Feedback

Code	Resolution (kΩ/mm)	Max Stroke (mm)	Remark
A	0.046	200	a. Start with 0kΩ b. Resistance value may vary with stroke length within 0-10 kΩ.
B	0.046	200	
C	0.046	200	
D	0.046	200	
E	0.046	200	
F	0.029	300	
G	0.029	300	
H	0.029	300	
I	0.029	300	
J	0.029	300	

Ordering Key :

Mode	DJ809	-	Stroke	-	Voltage	-	Code	-	Sensor
Ex.	DJ809	-	100	-	24	-	A	-	P*

EX. Specification

- max. Dynamic Load 2,000N
- Speed 5.0 mm/sec (Free load)/ 4.0 mm/sec (Full load)
- Potentiometer Feedback *H- Hall Sensor/ Blank- No option