

Electric Actuator Motorless specifications

Compatible with rechargeable battery manufacturing

EBR-12L-P4Series

Compatible with food manufacturing

EBR-12L-FP1Series



Electric actuator ideal for rechargeable battery manufacturing

EBR-L-P4 Series



Environment / supply air

DEW POINT
-80°C

Long service life even in ADP-80°C dew point environments

A diverse lineup compatible with ultra-low dew point atmospheres (including supply air). We develop grease suitable for next-generation battery processes to maximize performance. Lubrication of the sliding part is maintained for long periods, even in dry environments.

Material restrictions

Restricted materials for configuration parts
Restricts the use of materials and surface treatments inappropriate for the rechargeable battery manufacturing process. Product failure of rechargeable batteries is reduced.

- Limited copper material
- Limited zinc material
- Limited nickel-based material
- Limited zinc plating
- Limited electrolytic nickel plating

Make Progress!!

P4 Series



Electric actuator ideal for food manufacturing

EBR-L-FP1 Series



Eliminates concerns over lubricant contamination!

Food grade (NSF H1) lubricant is used for sliding parts.



CKD Corporation

CC-1693AA

EBR-12L Series

Specifications

Applicable motor capacity	400 W servo motor					
Drive method	Ball screw ø16					
Stroke	50 to 800					
Screw lead	mm	5	10	20	32	
Max. payload *1	kg	Horizontal	110	88	40	30
		Vertical	33	22	10	8
Max. speed	mm/s	250	500	1000	1600	
Rated thrust *1	N	1388	694	347	218	
Repeatability	mm	±0.01				
Lost motion	mm	0.1 or less				
Operating ambient temperature, humidity	0 to 40 °C (no freezing), 35 to 80% RH (no condensation)					
Storage Ambient Temperature, Humidity	-10 to 50 °C (no freezing), 35 to 80 % RH (no condensation)					
Atmosphere	No corrosive gas, explosive gas, or dust					

Stroke and max. speed

(mm/s)

Screw lead	Stroke	
	50 to 300	350 to 800
5	250	200
10	500	400
20	1000	850
32	1600	1350

* The max. speed is the speed when the motor mounted by the customer can output a rotation speed of 3000 rpm. The max. speed is restricted by the stroke. Do not move at speeds beyond the limit.

* For information about the allowable applied load for the amount of overhang, refer to the "Allowable Load Weight" page on the CKD Components Product site (<https://www.ckd.co.jp/kiki/en/>) → "EBS-L".

*1 Rated thrust and maximum load capacity are guideline values, assuming that the motor mounted will output the rated torque.

Model No. Notation

EBR - 12 L E - 00 - 05 0300 NNN - M 4 N N - P4

1 Body Size	5 Stroke	7 Motor capacity	9 Limit sensor *1
12 Body width 120 mm	0050 50 mm to 800 800 mm (In 50 mm increments)	4 400 W	N Without B With
2 Motor	6 Mounting motor specifications	8 Origin sensor *1	10 Compatible processes
L Without	M Select the mounted motor specification from catalog No. RJ-015AA. Y P	N Without C With	P4 Compatible with rechargeable battery manufacturing processes FP1 Supports food manufacturing processes
3 Motor mounting direction	*1 Origin sensor and limit sensor are a set. As it is both-or-nothing, select "None" for both.		
E Inline mounting R Right-side Reverse Parallel mounting D Bottom-side Reverse Parallel mounting L Left-side Reverse Parallel mounting	* Model Numbers		
4 Screw lead	This catalog lists model Nos. for the rechargeable battery manufacturing processes (P4) and food manufacturing processes (FP1) that have just been added. For details on the EBS Series (specifications, Dimensions, model Nos., ⚠ Safety precautions, etc.), refer to Electric Actuator ROBODEX std. Motorless Specifications (Catalog No. RJ-015AA).		
05 5 mm 10 10 mm 20 20 mm 32 32 mm			

External Dimension Drawings

Refer to the electric actuator ROBODEX std. Motorless specifications (Catalog No. RJ-015AA) for details on dimensions diagram.

For details,



Click!

CKD Component Products website (<https://www.ckd.co.jp/en/>) → Refer to "Model No."

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