

Electric Actuator Motorless General
Catalog No. CB-055A

Servo motor compatible, Electric actuator, Motorless specification
Rod with built-in guide

EBR-*L*-FP1 Series

● Applicable motor capacity: 50W/100W/200W servo motor



Specifications

Item		EBR-04LE/R/D/L	
Applicable motor capacity		50 W servo motor	
Drive method		Ball screw $\phi 10$	
Stroke length *1	mm	50 to 400	
Screw lead	mm	6	12
Max. workload *2	Horizontal	20	12
	Vertical	5	2
Max. speed	mm/s	300	600
Rated thrust *2	N	141	71
Repeatability	mm	± 0.01	
Lost motion	mm	0.1 or less	

Item		EBR-05LE/R/D/L			
Applicable motor capacity		100 W servo motor			
Drive method		Ball screw $\phi 12$			
Stroke length *1	mm	50 to 400			
Screw lead	mm	2	5	10	20
Max. workload *2	Horizontal	30	30	15	10
	Vertical	10	10	5	2.5
Max. speed	mm/s	100	250	500	1000
Rated thrust *2	N	854	341	170	85
Repeatability	mm	± 0.01			
Lost motion	mm	0.1 or less			

Item		EBR-08LE/R/D/L		
Applicable motor capacity		200 W servo motor		
Drive method		Ball screw $\phi 16$		
Stroke length *1	mm	50 to 700		
Screw lead	mm	5	10	20
Max. workload *2	Horizontal	50	30	12
	Vertical	15	8	2.5
Max. speed	mm/s	250	500	1000
Rated thrust *2	N	683	341	174
Repeatability	mm	± 0.01		
Lost motion	mm	0.1 or less		

*1 Stroke length is 50 pitch.

*2 When wall-mounted, the same load capacity as when installed horizontally.

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

How to order

EBR - 05 L E - 00 - 02 0050 N NN - M 1 N N - FP1

Model No.

A Body size

B Motor

C Motor mounting direction

D Screw lead

E Stroke

F Brake

G Mounted motor specification

H Motor capacity

I Origin sensor

J Limit sensor

Code	Description
A Body size	
04	Body width 44mm
05	Body width 54mm
08	Body width 82mm
B Motor	
L	None
C Motor mounting direction	
E	Straight mounting
R	Right mounting
D	Bottom mounting
L	Left mounting
D Screw lead	
02	2 mm
05	5 mm
06	6 mm
10	10 mm
12	12 mm
20	20 mm
E Stroke	
0050 to 0700	50 mm (In 50 mm increments) 700 mm
F Brake	
N	None
G Mounted motor specification	
M	Refer to the table below for mounted
Y	motor specifications.
P	to change the setting.
F	
H Motor capacity	
H	50W (Body size: 04)
1	100 W (body size: 05)
2	200 W (body size: 08)
I Origin sensor (1 pc) *1	
N	None
C	Yes (Attached at shipment)
J Limit sensor (2 pcs) *1	
N	None
B	Yes (Attached at shipment)

[Example of model No.]

EBR-05LE-00-020050NNN-M1NN-FP1

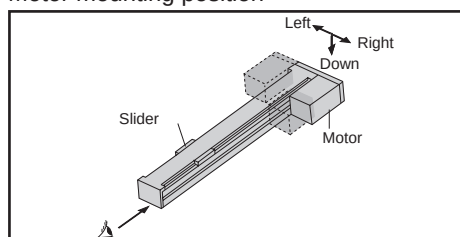
- A Body size: body width 54mm
- B Motor: none
- C Motor mounting direction: Straight
- D Screw lead: 2 mm
- E Stroke length: 50 mm
- F Brake: None
- G Mounted motor specifications: Manufactured by Mitsubishi Electric Co., Ltd.
- H Motor capacity: 100 W
- I Origin sensor: none
- J Limit sensor: none

*1 Origin sensor and limit sensor are a set.
As it is both-or-nothing, select "None" for both.

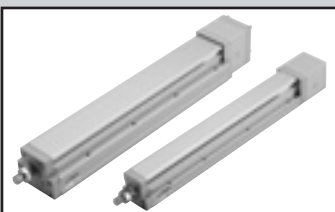
G Mounted motor specification

Manufacturer	50W	100W	200W
Mitsubishi Electric Corporation	M	M	M
Delta Electronics Co., Ltd.	M	M	M
Sanyo Denki Co., Ltd.	M	M	M
YASKAWA Electric Corporation	Y	Y	Y
Keyence Corporation	Y	Y	Y
Panasonic Corporation	P	P	P
OMRON Corporation	M	M	P
Fuji Electric Co., Ltd.	M	M	M
FANUC CORPORATION	F	F	F
Bosch Rexroth Corporation	P	P	P
Rockwell Automation, Inc.	M	M	M
SIEMENS AG	M	M	M

Motor mounting position



For the motor list, dimensions and model selection recommended for mounting, refer to EBR-L Series servo motor compatibility in "Electric Actuator Motorless (CB-055A)".



Electric Actuator Motorless General
Catalog No. CB-055A

Electric actuator, Stepper motor compatible, Motorless specifications
Rod with built-in guideType

EBR-*L*-FP1 Series

● Applicable motor sizes: □42/□56/□60 Stepping motor



Specifications

Item		EBR-04LE/R/D/L	
Applicable motor sizes		□42 Stepper motor	
Drive method		Ball screw ø10	
Stroke length *1	mm	50 to 400	
Screw lead	mm	6	12
Max.workload *2	Horizontal	20	12
	Vertical	5	2
Max. speed *3	mm/s	300	600
Rated thrust *2	N	141	71
Repeatability	mm	±0.01	
Lost motion	mm	0.1 or less	

Item		EBR-05LE/R/D/L			
Applicable motor sizes		□42 Stepper motor			
Drive method		Ball screw ø12			
Stroke length *1	mm	50 to 400			
Screw lead	mm	2	5	10	20
Max.workload *2	Horizontal	30	30	15	10
	Vertical	10	10	5	2.5
Max. speed *3	mm/s	100	250	500	1000
Rated thrust *2	N	854	341	170	85
Repeatability	mm	±0.01			
Lost motion	mm	0.1 or less			

Item		EBR-08LE/R/D/L		
Applicable motor sizes		□56, □60 Stepping motor		
Drive method		Ball screw ø16		
Stroke length *1	mm	50 to 700		
Screw lead	mm	5	10	20
Max.workload *2	Horizontal	50	30	12
	Vertical	15	8	2.5
Max. speed *3	mm/s	250	500	1000
Rated thrust *2	N	683	341	174
Repeatability	mm	±0.01		
Lost motion	mm	0.1 or less		

*1 Stroke length is 50 pitch.

*2 The rated thrust and maximum load capacity are the allowable values of the actuator body. The actual thrust and load capacity may be limited by the motor used.

*3 The max. speed is the speed when the motor mounted by the customer can output a rotation speed of 3000rpm.

*4 The same load capacity as when mounted horizontally for wall mounting.

How to order

EBR - 05 L E - 00 - 02 0050 N N N - A A N N - FP1

Model No.

A Body size

B Motor

C Motor mounting direction

D Screw lead

E Stroke

F Brake

G Mounted motor specification

H Motor size

I Origin sensor

J Limit sensor

Code	Description
A Body size	
04	Body width 44mm
05	Body width 54mm
08	Body width 82mm
B Motor	
L	None
C Motor mounting direction	
E	Straight mounting
R	Right mounting
D	Bottom mounting
L	Left mounting
D Screw lead	
02	2 mm
05	5 mm
06	6 mm
10	10 mm
12	12 mm
20	20 mm
E Stroke	
0050 to 0700	50 mm (In 50 mm increments) 700 mm
F Brake	
N	None
G Mounted motor specification	
A	Refer to the table below for mounted
B	motor specifications.
C	to change the setting.
H Motor size	
A	□42 (body size: 04, 05)
B	□56 (body size: 08)
C	□60 (body size: 08)
I Origin sensor (1 pc) *1	
N	None
C	Yes (Attached at shipment)
J Limit sensor (2 pcs) *1	
N	None
B	Yes (Attached at shipment)

[Example of model No.]

EBR-05LE-00-020050NNN-AANN-FP1

A Body size: body width 54mm

B Motor: none

C Motor mounting direction: Straight

D Screw lead: 2 mm

E Stroke length: 50 mm

F Brake: None

G Mounted motor specification: Oriental Motor Co., Ltd.

H Motor size: □42

I Origin sensor: none

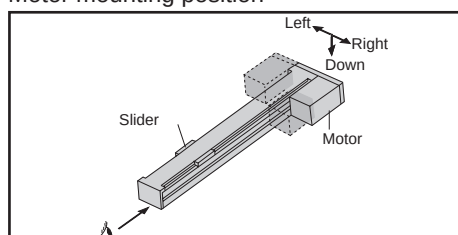
J Limit sensor: none

*1 Origin sensor and limit sensor are a set.
As it is both-or-nothing, select "None" for both.

G Mounted motor specification

Manufacturer	□42	□56	□60
Oriental Motor Co., Ltd.	A	-	A
MinebeaMitsumi Incorporated	B	B	-
Dyadic Systems Co., Ltd.	B	C	-

Motor mounting position



For the motor list, dimensions and model selection recommended for mounting, refer to EBR-L Series stepping motor support in "Electric Actuator Motorless (CB-055A)".