

Electric Actuator Motorless General
Catalog No. CB-055A

Servo motor compatible, Electric actuator, Motorless specification
Slider (standard model)

EBS-*L*-FP1 Series

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



Specifications

Item	EBS-04LE/R/D/L	
Applicable motor capacity	50 W servo motor	
Drive method	Ball screw $\varnothing 10$	
Stroke length *1	mm 50 to 500	
Screw lead	mm	6 12
Max. workload	kg	20 12
*2	Horizontal	5 2
	Vertical	
Max. speed	mm/s	300 600
Rated thrust *2	N	141 71
Repeatability	mm	± 0.01
Lost motion	mm	0.1 or less
Static allowable load	N	1030
Static allowable moment	N·m	MP:62 MY:62 MR:92

Item		EBS-05LE/R/D/L			
Applicable motor capacity		100 W servo motor			
Drive method		Ball screw ø12			
Stroke length *1 mm		50 to 800			
Screw lead mm		2	5	10	20
Max.workload kg	Horizontal	30	30	15	10
	Vertical	10	10	5	2.5
*2					
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			
Static allowable load N		1168			
Static allowable moment N·m		MP:103 MY:103 MR:144			

Item	EBS-08LE/R/D/L		
Applicable motor capacity	200 W servo motor		
Drive method	Ball screw $\varnothing 16$		
Stroke length *1	mm 50 to 1100		
Screw lead	mm	5 10 20	
Max. workload	kg	50 30 12	
*2	Horizontal	15 8 2.5	
	Vertical		
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	
Static allowable load	N	2781	
Static allowable moment	N·m	MP:203 MY:203 MR:336	

*1 Stroke length is 50 pitch.

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

*3 The same load capacity as when installed horizontally when wall-mounted.

How to order

EBS - 05 L E - 02 0300 N NN - M 1 N 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

K Anti-rust treatment

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 1100	50 mm (In 50 mm increments) 1100 mm
F Brake	
N	None
G Mounted motor specification	
M Y P F	Refer to the table below for mounted motor specifications. to change the setting.
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)
K Anti-rust treatment	
N	None
U	Yes

[Example of model No.]

EBS-05LE-020300NNN-M1NN-N-FP1

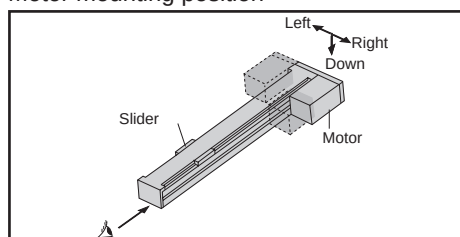
- A** Body size: body width 54mm
- B** Motor: none
- C** Motor mounting direction: Straight
- D** Screw lead: 2 mm
- E** Stroke length: 300 mm
- F** Brake: None
- G** Mounted motor specifications: Manufactured by Mitsubishi Electric Co., Ltd.
- H** Motor capacity: 100 W
- I** Origin sensor: none
- J** Limit sensor: none
- K** Anti-rust treatment: none

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

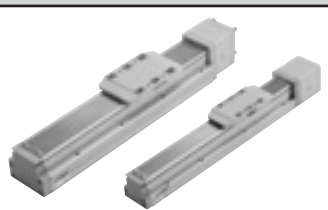
G Mounted motor specification

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 EBS-L Series servo motor compatibility in "Electric Actuator Motorless (CB-055A)".



Electric Actuator Motorless General
Catalog No. CB-055A

Stepper motor compatible, Electric actuator, Motorless specifications
Slider (standard model)

EBS-*L*-FP1 Series

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



Specifications

Item		EBS-04LE/R/D/L	
Applicable motor sizes		☐ 42 Stepper motor	
Drive method		Ball screw $\varnothing 10$	
Stroke length *1	mm	50 to 500	
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	
Static allowable load	N	1030	
Static allowable moment	N·m	MP:62 MY:62 MR:92	

Item		EBS-05LE/R/D/L			
Applicable motor sizes		☐ 42 Stepper motor			
Drive method		Ball screw $\varnothing 12$			
Stroke length *1	mm	50 to 800			
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			
Static allowable load	N	1168			
Static allowable moment	N·m	MP:103 MY:103 MR:144			

Item		EBS-08LE/R/D/L		
Applicable motor sizes		☐ 56, ☐ 60 Stepping motor		
Drive method		Ball screw $\varnothing 16$		
Stroke length *1	mm	50 to 1100		
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		
Static allowable load	N	2781		
Static allowable moment	N·m	MP:203 MY:203 MR:336		

*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

EBS - 05 L E - 02 0300 N NN - A A N 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

K Anti-rust treatment

[Example of model No.]

EBS-05LE-020300NNN-AANN-N-FP1

A Body size: body width 54mm

B Motor: none

C Motor mounting direction: Straight

D Screw lead: 2 mm

E Stroke length: 300 mm

F Brake: None

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

H Motor size: □42

I Origin sensor: none

J Limit sensor: none

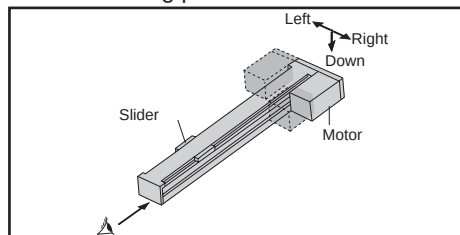
K Anti-rust treatment: none

*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 EBS-L Series stepping motor support in "Electric Actuator Motorless (CB-055A)".

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 1100	50 mm (In 50 mm increments) 1100 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)
K Anti-rust treatment	
N	None
U	Yes

Electric actuator	Pneumatic cylinders	Assistive device	Pneumatic valves	FRL/Auxiliary Components	Vacuum components	Main line components	Fluid control valves	Main line components	Anti-bacterial/bacteria-removing filter	Vacuum components	Fluid control valves