Electric Actuator Motorless General Catalog
Catalog No. CB-055AServo motor compatible electric actuator Motorless specification
Slider (standard model)

EBS-*L* Series

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



Specifications

Item	EBS-04LE/R/D/L	
Applicable motor sizes	50 W servo motor	
Drive method	Ball screw ø10	
Stroke *1	mm	50 to 500
Screw lead	mm	6 12
Max.workload	kg	20 12
*2	Horizontal 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
Static allowable load	N	1030
Static allowable momentN·m	MP:62 MY:62 MR:92	

Item		EBS-05LE/R/D/L			
Applicable motor sizes		100 W servo motor			
Drive method		Ball screw ø12			
Stroke *1mm		50 to 800			
Screw leadmm		2	5	10	20
Max.workloadkg	Horizontal	30	30	15	10
	Vertical	10	10	5	2.5
Max. speedmm/s		100	250	500	1000
Rated thrust *2N		854	341	170	85
Repeatabilitymm		±0.01			
Lost motionmm		0.1 or less			
Static allowable loadN		1168			
Static allowable momentN·m		MP:103 MY:103 MR:144			

Item			EBS-08LE/R/D/L		
Applicable motor sizes			200 W servo motor		
Drive method			Ball screw ø16		
Stroke *1		mm	50 to 1100		
Screw lead		mm	5	10	20
Max.workload	kg	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		
Static allowable load		N	2781		
Static allowable moment		N·m	MP:203 MY:203 MR:336		

Compatibility table by variation

	EBS
P4	●

●: Applicable models ○: Semi-applicable models
▲: Contact CKD for details. □: Not applicable

*1 Stroke is 50 pitch.

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

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

How to order

EBS - 05 L E - 02 0300 N NN - M 1 N N - N - P4

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

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	Select the mounted motor specification from the table below.
Y	
P	
F	
H Motor size	
H	50 W (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 *2	
N	None
U	Yes

[Example of model No.]

EBS-05LE-020300NNN-M1NN-N-P4

A Body size: body width 54mm

B Motor: none

C Motor mounting direction: Straight

D Screw lead: 2 mm

E Stroke: 300 mm

F Brake: None

G Mounted motor specifications: Manufactured by Mitsubishi Electric Co., Ltd.

H Motor size: 100 W

I Origin sensor: none

J Limit sensor: none

K Anti-rust treatment: none

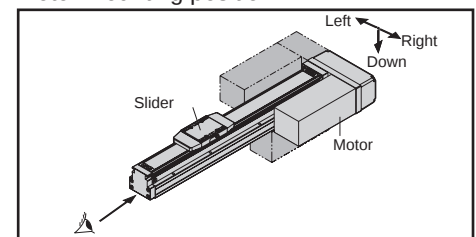
*1 Origin sensor and limit sensor are available as a set. As it is both-or-nothing, when either is "None", select "None" for both.

*2 Positioning pin holes may not be surface treated.

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)".

How to order

EBS - 05 L E - 02 0300 N NN - A A N N - N - P4

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

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	Select the mounted motor
B	specification from the table below.
C	
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 *2	
N	None
U	Yes

[Example of model No.]

EBS-05LE-020300NNN-AANN-N-P4

- A** Body size: body width 54mm
- B** Motor: none
- C** Motor mounting direction: Straight
- D** Screw lead: 2 mm
- E** Stroke: 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

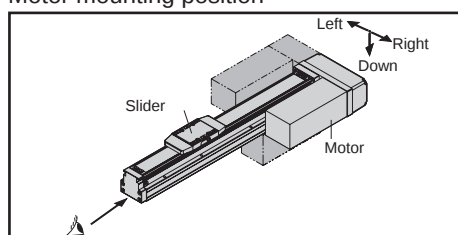
*1 Origin sensor and limit sensor are a set. As it is both-or-nothing, when either is "None", select "None" for both.

*2 Positioning pin holes may not be surface treated.

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)".