Electric Actuator Motorless General Catalog
Catalog No. CB-055AServo motor compatible electric actuator Motorless specification
Rod with built-in guide

EBR-*L* Series

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



Specifications

Item		EBR-04LE/R/D/L	
Applicable motor sizes		50 W servo motor	
Drive method		Ball screw $\phi 10$	
Stroke *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 sizes		100 W servo motor			
Drive method		Ball screw $\phi 12$			
Stroke *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 sizes		200 W servo motor		
Drive method		Ball screw $\phi 16$		
Stroke *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		

Compatibility table by variation

	EBR
P4	●

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

*1 Stroke is 50 pitch.

*2 When wall-mounted, the load capacity is the same 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 - 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

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	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)	
N	None
C	Yes (Attached at shipment)
J Limit sensor (2 pcs)	
N	None
B	Yes (Attached at shipment)

[Example of model No.]

EBR-05LE-00-020050NNN-M1NN-P4

A Body size: body width 54mm

B Motor: none

C Motor mounting direction: Straight

D Screw lead: 2 mm

E Stroke: 50 mm

F Brake: None

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

H Motor size: 100 W

I Origin sensor: none

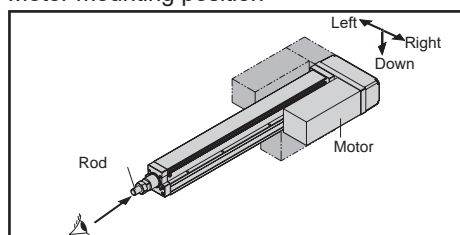
J Limit sensor: none

*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.

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)".

P4 Series

Pneumatic actuator
Pneumatic cylinders
Hand/Chuck
Related products
Cylinder Switch

Vacuum components

Pneumatic valves

Clean air components
controller

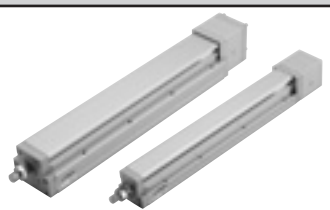
Pneumatic auxiliary components
Speed
Fitting
Auxiliary valve

Silencer
Tube

Gas generator

Fluid control components

Electric actuator
Motor specification
Motorless specifications

Electric Actuator Motorless General Catalog
Catalog No. CB-055AElectric actuator Stepper motor compatible motorless specifications
Rod with built-in guide

EBR-*L* 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 *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 *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 *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		

Compatibility table by variation

	EBR
P4	●

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

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

How to order

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

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	Select the mounted motor
B	specification from the table below.
C	
H Motor size	
A	<input type="checkbox"/> 42 (body size: 04, 05)
B	<input type="checkbox"/> 56 (body size: 08)
C	<input type="checkbox"/> 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-P4

A Body size: body width 54mm

B Motor: none

C Motor mounting direction: Straight

D Screw lead: 2 mm

E Stroke: 50 mm

F Brake: None

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

H Motor size: ☐ 42

I Origin sensor: none

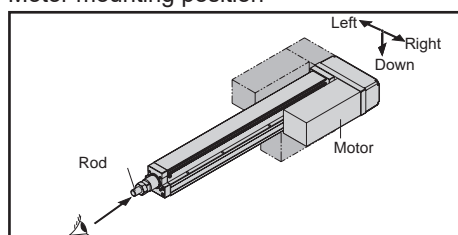
J Limit sensor: none

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

G Mounted motor specification

Manufacturer	<input type="checkbox"/> 42	<input type="checkbox"/> 56	<input type="checkbox"/> 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)".