

Electric actuator Rod with built-in guideType

EBR-*M*-FP1 Series

- Applicable motor sizes: □35, □42, □56 Stepping motor
with battery-less absolute encoder



Electric actuator EBR-M Series
Catalog No. CC-1422A

EAR-compliant product (EAR99-embedded product)

Series variation

Type	Model No.	Motor Mounting Direction	Body width (mm)	Thread Lead (mm)	Max.workload (kg) *1		Max.Pressing force (N)	Stroke (mm) and max. speed (mm/s) *2															
								50 mm	100	150	200	250	300	350	400	450	500	550	600	650	700		
Rod	EBR-04ME-06	Straight	44	6	33.3	10	131	350 mm/s			300	250											
	EBR-04ME-12			12	18.3	5	69	600			490												
	Left/Right/Bottom	EBR-04MR/D/L-06		6	33.3	9.1	131	350			300	250											
		EBR-04MR/D/L-12		12	18.3	5	69	600			490												
	EBR-05ME-02	Straight	54	2	80	24	397	130			85												
	EBR-05ME-05			5	60	16.6	193	330			210												
	EBR-05ME-10			10	50	10	94	600			420												
	EBR-05ME-20			20	20	4.1	33	800															
	Left/Right/Bottom	EBR-05MR/D/L-02		2	80	24	397	120			85												
		EBR-05MR/D/L-05		5	60	16.6	193	330			210												
		EBR-05MR/D/L-10		10	36.6	8.3	94	500			420												
		EBR-05MR/D/L-20		20	18.3	4.1	33	800															
	EBR-08ME-05	Straight	82	5	80	38.3	1050	225			200												
	EBR-08ME-10			10	70	18.3	468	450			400												
	Left/Right/Bottom	EBR-08ME-20		20	35	11.6	213	900			600												
		EBR-08MR/D/L-05		5	80	38.3	1050	225			200												
		EBR-08MR/D/L-10		10	70	18.3	468	450			400												
		EBR-08MR/D/L-20		20	35	8.3	213	700			600												

* This data is at power supply voltage DC48V and acceleration/deceleration 0.3G.

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

Load capacity varies according to acceleration/deceleration and speed.

*2 Stroke length is 50 pitch.

Common specifications

Item	Description	
Encoder type	Battery-less absolute encoder	
Repeatability mm	±0.01	
Lost motion mm	0.1 or less	
Degree of protection	IP40	

Individual specifications

Item		EBR-04M				EBR-05M								EBR-08M					
Motor mounting direction		E		R/D/L		E				R/D/L				E			R/D/L		
Drive method		Ball screw ø10				Ball screw ø12								Ball screw ø16					
Screw lead mm		6	12	6	12	2	5	10	20	2	5	10	20	5	10	20	5	10	20
Motor size		□35				□42								□56					
Max.workload kg	Horizontal	33.3 (33.3)	18.3 (18.3)	33.3 (33.3)	18.3 (18.3)	80 (80)	60 (60)	50 (50)	20 (20)	80 (80)	60 (60)	36.6 (36.6)	18.3 (18.3)	80 (80)	70 (70)	35 (23.3)	80 (80)	70 (70)	35 (23.3)
	Vertical	10 (9.1)	5 (4.5)	9.1 (9.1)	5 (4.5)	24 (24)	16.6 (15)	10 (6.6)	4.1 (4.1)	24 (24)	16.6 (15)	8.3 (6.6)	4.1 (4.1)	38.3 (35)	18.3 (15)	11.6 (10)	38.3 (35)	18.3 (15)	8.3 (8.3)
Operation speed range		7 up 350 (250)	15 up 600 (500)	7 up 350 (200)	15 up 600 (400)	2 up 130 (80)	6 up 330 (275)	12 up 600 (500)	25 up 800 (700)	2 up 120 (80)	6 up 330 (250)	12 up 500 (400)	25 up 800 (700)	6 up 225 (150)	12 up 450 (300)	25 up 900 (500)	6 up 225 (100)	12 up 450 (300)	25 up 700 (500)
*3*4 mm/s																			
Brake	Model/power supply voltage	Non-excitation operation, 24 VDC ±10%																	
	Power consumption W	7				7								8					
	Holding force N	126	63	126	63	471	188	94	47	471	188	94	47	754	377	188	754	377	188

*1 () is the value at 24 VDC.

*2 Load capacity varies according to acceleration/deceleration and speed. Refer to the EBR-M Series of "Electric Actuator EBS-M/EBR-M/ECR Series (CC-1422A)" for details.

*3 () is the max. speed at 24 VDC.

*4 The max. speed may decrease depending on the conditions.

How to order

EBR - 05 M E - 00 - 05 0300 N A N - C S03 - FP1

Model No.

A Body size

B Motor

C Motor mounting direction

D Mounting

E Screw lead

F Stroke

G Brake

H Encoder

I Relay cable

Code	Description
A Body size	
04	Body width 44mm
05	Body width 54mm
08	Body width 82mm
B Motor	
M	Yes
C Motor mounting direction	
E	Straight mounting
R	Right mounting
D	Bottom mounting
L	Left mounting
D Mounting	
00	Basic
FA	Rod side flange
E Screw lead	
02	2 mm
05	5 mm
06	6 mm
10	10 mm
12	12 mm
20	20 mm
F Stroke	
0050 to 0700	50 mm (In 50 mm increments) 700 mm
G Brake *1	
N	None
B	Yes
H Encoder	
A	Battery-less absolute encoder
I Relay cable	
N00	None
S01	Fixing cable 1 m
S03	Fixing cable 3 m
S05	Fixing cable 5 m
S10	Fixing cable 10 m
R01	Movable cable 1 m
R03	Movable cable 3 m
R05	Movable cable 5 m
R10	Movable cable 10 m

[Example of model No.]

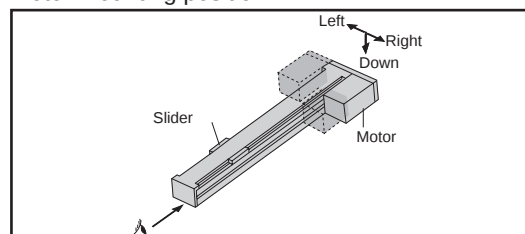
EBR-05ME-00-050300NAN-CS03-FP1

- A Body size: body width 54mm
- B Motor: Yes
- C Motor mounting direction: Straight
- D Mounting: Basic
- E Screw lead: 5 mm
- F Stroke length: 300 mm
- G Brake: None
- H Encoder: Battery-less absolute encoder
- I Relay cable: fixing cable 3 m

*1 When using vertically "Yes".

Select the controller from the separate catalog (No.CC-1422A).

Motor mounting position



For details on dimensions and model selection, refer to the "Electric actuator EBS-M/EBR-M/ECR Series(CC-1422A)" EBR-M Series.