

Electric actuator Slider

EBS-*M*-FP1 Series

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



Electric actuator EBS-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	750	800	850	900	950	1000	1050	1100						
Slider	EBS-04ME-06	Straight	44	6	16.6	8.3	177	400 mm/s																											
	EBS-04ME-12			12	13.3	3.3	89	800																											
	EBS-04MR/D/L-06	Left/Right/Bottom		6	16.6	8.3	177	400																											
	EBS-04MR/D/L-12			12	13.3	3.3	89	700																											
	EBS-05ME-02	Straight	54	2	45	24	385	130										120	105	95	80	70													
	EBS-05ME-05			5	40	16.6	250	300										270	235	200	185														
	EBS-05ME-10			10	35	8.3	121	700										625	540	475	415	370													
	EBS-05ME-20			20	16.6	4.5	44	1100										1080	950	830	740														
	EBS-05MR/D/L-02	Left/Right/Bottom		2	45	24	385	130										120	105	95	80	70													
	EBS-05MR/D/L-05			5	40	16.6	250	300										270	235	200	185														
	EBS-05MR/D/L-10			10	35	8.3	121	600										540	475	415	370														
	EBS-05MR/D/L-20			20	16.6	4.5	44	1100										1080	950	830	740														
	EBS-08ME-05	Straight	82	5	80	40	970	250														220	200	180	135	120	110	100							
	EBS-08ME-10			10	70	18.3	477	550														510	450	410	370	270	240	225	200						
	EBS-08ME-20	20		43.3	10	250	1100														1000	910	820	740	540	490	450	410							
	EBS-08MR/D/L-05	Left/Right/Bottom		5	80	40	970	225														220	200	180	135	120	110	100							
	EBS-08MR/D/L-10			10	70	18.3	477	550														510	450	410	370	270	240	225	200						
	EBS-08MR/D/L-20			20	43.3	8.3	250	1000															910	820	740	540	490	450	410						

* 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		EBS-04M				EBS-05M								EBS-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	16.6 (16.6)	13.3 (11.6)	16.6 (16.6)	13.3 (11.6)	45 (45)	40 (40)	35 (35)	16.6 (16.6)	45 (45)	40 (40)	35 (35)	16.6 (16.6)	80 (80)	70 (70)	43.3 (43.3)	80 (80)	70 (70)	43.3 (43.3)
	Vertical	8.3 (6.6)	3.3 (2.5)	8.3 (6.6)	3.3 (2.5)	24 (24)	16.6 (16.6)	8.3 (8.3)	4.5 (4.5)	24 (24)	16.6 (16.6)	8.3 (8.3)	4.5 (4.5)	40 (38.3)	18.3 (18.3)	10 (10)	40 (36.6)	18.3 (16.6)	8.3 (8.3)
Operation speed range		7 to 400 (200)	15 to 800 (600)	7 to 400 (200)	15 to 700 (500)	2 to 130 (70)	6 to 300 (250)	12 to 700 (600)	25 to 1100 (900)	2 to 130 (70)	6 to 300 (250)	12 to 600 (500)	25 to 1100 (900)	6 up 250 (150)	12 up 550 (300)	25 up 1100 (600)	6 up 225 (100)	12 up 550 (300)	25 up 1000 (500)
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 EBS-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

EBS - 05 M E - 05 0300 N A N - C S03 - N - FP1

Model No.

A Body size

B Motor

C Motor mounting direction

D Screw lead

E Stroke

F Brake

G Encoder

H Relay cable

I Anti-rust treatment

[Example of model No.]

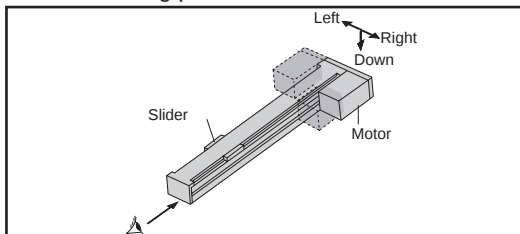
EBS-05ME-050300NAN-CS03-N-FP1

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

*1 When using vertically "Yes".

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

Motor mounting position



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 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
B	Yes
G Encoder	
A	Battery-less absolute encoder
H Relay cable	
N00	None
S01	Fixing cable 1 m
S03	Fixing cable 3 m
S05	Fixing cable 5 m
S10	Fixing cable 10 m
R 01	Movable cable 1m
R 03	Movable cable 3 m
R 05	Movable cable 5 m
R 10	Movable cable 10 m
I Anti-rust treatment	
N	None
U	Yes

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

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