Electric Actuator/Slider Type
Ball Screw Drive Step Motor (Servo/24 VDC)
Servo Motor (24 VDC)

Series *LEFS*
LEFS16, 25, 32, 40

C€ c**Ṝ**us

RoHS

How to Order

LEFS **16** ☐ **B** – **100** ☐ – **S** **1** **6N** **1** ☐

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾ ❿

❶ Size

16
25
32
40

❷ Motor type

Symbol	Type	Applicable size				Compatible controllers/driver
		LEFS16	LEFS25	LEFS32	LEFS40	
Nil	Step motor (Servo/24 VDC)	●	●	●	●	LECP6 LECP1 LECPA
A	Servo motor (24 VDC)	●	●	—	—	LECA6

⚠Caution
[CE-compliant products]

① EMC compliance was tested by combining the electric actuator LEF series and the controller LEC series.
  The EMC depends on the configuration of the customer's control panel and the relationship with other electrical equipment and wiring. Therefore conformity to the EMC directive cannot be certified for SMC components incorporated into the customer's equipment under actual operating conditions. As a result it is necessary for the customer to verify conformity to the EMC directive for the machinery and equipment as a whole.

② For the servo motor (24 VDC) specification, EMC compliance was tested by installing a noise filter set (LEC-NFA). Refer to page 44 for the noise filter set. Refer to the LECA Operation Manual for installation.

[UL-compliant products]
When conformity to UL is required, the electric actuator and controller/driver should be used with a UL1310 Class 2 power supply.

❸ Lead [mm]

Symbol	LEFS16	LEFS25	LEFS32	LEFS40
A	10	12	16	20
B	5	6	8	10

❹ Stroke [mm]

100	100
to	to
1000	1000

∗ Refer to the applicable stroke table.

Applicable stroke table

●Standard

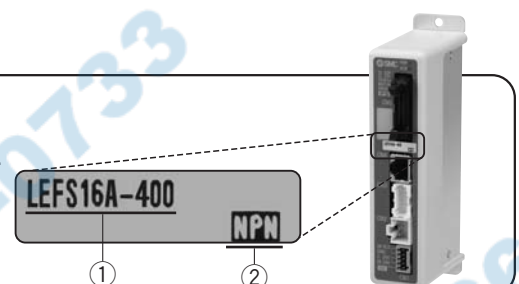| Model \ Stroke	100	200	300	400	500	600	700	800	900	1000	Manufacturable stroke range [mm]
LEFS16	●	●	●	●	—	—	—	—	—	—	100 to 400
LEFS25	●	●	●	●	●	●	—	—	—	—	100 to 600
LEFS32	●	●	●	●	●	●	●	●	—	—	100 to 800
LEFS40	—	●	●	●	●	●	●	●	●	●	200 to 1000

∗ Consult with SMC for non-standard strokes as they are produced as special orders.

The actuator and controller/driver are sold as a package.
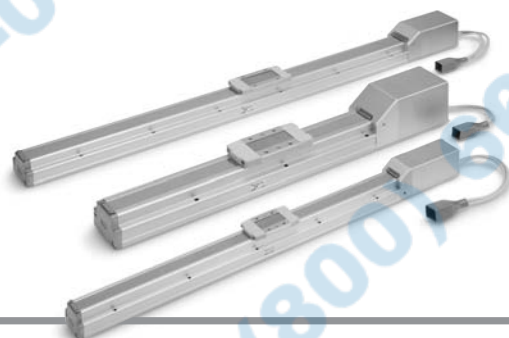
Confirm that the combination of the controller/driver and the actuator is correct.

<Check the following before use.>
① Check the actuator label for model number. This matches the controller/driver.
② Check Parallel I/O configuration matches (NPN or PNP).

LEFS16A-400   NPN

①   ②

∗ Refer to the operation manual for using the products. Please download it via our website, http://www.smcworld.com

SMC

Model Selection

LEFS

Servo Motor (24 VDC)/Step Motor (Servo/24 VDC)

LEFB

LECA6 LECP6

LEC-G

LECP1

LECPA

LEFS

AC Servo Motor

LEFB

LECS□

Specific Product Precautions

❺ **Motor option**

Nil	Without option
B	With lock

❻ **Actuator cable type**[*1]

Nil	Without cable
S	Standard cable[*2]
R	Robotic cable (Flexible cable)

[*1] The standard cable should be used on fixed parts. For using on moving parts, select the robotic cable.
[*2] Only available for the motor type "Step motor."

❼ **Actuator cable length [m]**

Nil	Without cable
1	1.5
3	3
5	5
8	8*
A	10*
B	15*
C	20*

* Produced upon receipt of order (Robotic cable only)
 Refer to the specifications Note 2) on pages 14 and 15.

❽ **Controller/Driver type**[*1]

Nil	Without controller/driver	
6N	**LECP6/LECA6**	NPN
6P	(Step data input type)	PNP
1N	**LECP1**[*2]	NPN
1P	(Programless type)	PNP
AN	**LECPA**[*2]	NPN
AP	(Pulse input type)	PNP

[*1] For details about controllers/driver and compatible motors, refer to the compatible controllers/driver below.
[*2] Only available for the motor type "Step motor."

❾ **I/O cable length [m]**[*1]

Nil	Without cable
1	1.5
3	3[*2]
5	5[*2]

[*1] When "Without controller/driver" is selected for controller/driver types, I/O cable cannot be selected. Refer to page 44 (For LECP6/LECA6), page 57 (For LECP1) or page 64 (For LECPA) if I/O cable is required.
[*2] When "Pulse input type" is selected for controller/driver types, pulse input usable only with differential. Only 1.5 m cables usable with open collector.

❿ **Controller/Driver mounting**

Nil	Screw mounting
D	DIN rail mounting*

* DIN rail is not included. Order it separately.

Compatible Controllers/Driver

	Step data input type	Step data input type	Programless type	Pulse input type
Type				
Series	**LECP6**	**LECA6**	**LECP1**	**LECPA**
Features	Value (Step data) input Standard controller	Value (Step data) input Standard controller	Capable of setting up operation (step data) without using a PC or teaching box	Operation by pulse signals
Compatible motor	Step motor (Servo/24 VDC)	Servo motor (24 VDC)	Step motor (Servo/24 VDC)	Step motor (Servo/24 VDC)
Maximum number of step data	64 points	64 points	14 points	—
Power supply voltage	24 VDC	24 VDC	24 VDC	24 VDC
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