# Electric Actuator/Slider Type Ball Screw Drive comaniom spemicioion 



## 5 Stroke [mm]

| $\mathbf{5 0}$ | 50 |
| :---: | :---: |
| to | to |
| $\mathbf{1 0 0 0}$ | 1000 |

* Refer to the applicable stroke table.

6 Motor option

| Nil | Without option |
| :---: | :---: |
| $\mathbf{B}$ | With lock |

$$
\begin{aligned}
& \text { 1. Caution } \\
& \text { [CE-compliant products] } \\
& \text { (1) EMC compliance was tested by combining the electric actuator LEF series and the controller } \\
& \text { LEC series. } \\
& \text { The EMC depends on the configuration of the customer's control panel and the relationship } \\
& \text { with other electrical equipment and wiring. Therefore, conformity to the EMC directive cannot } \\
& \text { be certified for SMC components incorporated into the customer's equipment under actual } \\
& \text { operating conditions. As a result, it is necessary for the customer to verify conformity to the } \\
& \text { EMC directive for the machinery and equipment as a whole. } \\
& \text { (2) For the servo motor (24 VDC) specification, EMC compliance was tested by installing a noise } \\
& \text { filter set (LEC-NFA). Refer to page } 568 \text { for the noise filter set. Refer to the LECA series } \\
& \text { Operation Manual for installation. } \\
& \text { (3) CC-Link direct input type (LECPMJ) is not CE-compliant. } \\
& \text { [UL-compliant products] } \\
& \text { When conformity to UL is required, the electric actuator and controller/driver should be used with } \\
& \text { a UL1310 Class } 2 \text { power supply. }
\end{aligned}
$$

Applicable Stroke Table

- Standard

| Model Stroke <br> $[\mathrm{mm}]$ <br> $11-\mathrm{SE}$  | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | Manufacturable stroke range [mm] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 11-LEFS16 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 50 to 500 |
| 11-LEFS25 | $\bullet$ | - | - | - | $\bullet$ | $\bigcirc$ | - | - | - | $\bigcirc$ | - | - | - | - | - | - | - | - | - | - | 50 to 600 |
| 11-LEFS32 | $\bullet$ | $\bullet$ | - | - | $\bullet$ | - | $\bullet$ | $\bullet$ | - | - | $\bullet$ | - | - | - | $\bullet$ | - | - | - | - | - | 50 to 800 |
| 11-LEFS40 | - | - | $\bullet$ | $\bullet$ | - | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | - | $\bigcirc$ | $\bullet$ | $\bullet$ | - | $\bullet$ | - | - | - | 150 to 1000 |

* Please consult with SMC for non-standard strokes as they are produced as special orders.

Support Guide/LEFG Series
A support guide is designed to
support workpieces with
significant overhang.
Page 527

## 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).

11-LEFS16A-400


[^0]

* Produced upon receipt of order (Robotic cable only) Refer to the specifications Note 2) on pages 516 and 517.
(13) Controller/Driver mounting

| Nil | Screw mounting |
| :---: | :---: |
| $\mathbf{D}$ | DIN rail mounting ${ }^{*}$ |

* DIN rail is not included. Order it separately.


## Positioning pin hole

| Nil | Housing B bottom ${ }^{*}$ | Housing B bottom |
| :---: | :---: | :---: |
| K | Body bottom 2 locations |  |

* Refer to the body mounting example on page 114 for the mounting method.

11 Controller/Driver type ${ }^{* 1}$

| Nil | Without controller/driver |  |
| :---: | :---: | :---: |
| 6N | LECP6/LECA6 | NPN |
| 6P | (Step data input type) | PNP |
| 1N | LECP1*2 <br> (Programless type) | NPN |
| 1P |  | PNP |
| MJ | LECPMJ ${ }^{* 2 * 3}$ <br> (CC-Link direct input type) | - |
| AN | LECPA*2 *4 <br> (Pulse input type) | NPN |
| AP |  | PNP |

*1 For details about controller/driver and compatible motor, refer to the compatible controller/driver below.
*2 Only available for the motor type "Step motor."
*3 Not applicable to CE.
*4 When pulse signals are open collector, order the current limiting resistor (LEC-PA-R- $\square$ ) on page 596 separately.

## (9) Actuator cable type ${ }^{41}$

| Nil | Without cable |
| :---: | :---: |
| $\mathbf{S}$ | Standard cable $^{* 2}$ |
| $\mathbf{R}$ | Robotic cable (Flexible cable) $^{* 3}$ |

*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."
*3 Fix the motor cable protruding from the actuator to keep it unmovable. For details about fixing method, refer to Wiring/Cables in the Electric Actuators Precautions.

12 I/O cable length ${ }^{* 1}$, Communication plug | Nil | Without cable (Without communication plug connector) ${ }^{* 3}$ |
| :---: | :---: |
| 1 |  |

| $\mathbf{1}$ | 1.5 m |
| :---: | :---: |
| $\mathbf{3}$ | $3 \mathrm{~m}^{* 2}$ |
| $\mathbf{5}$ | $5 \mathrm{~m}^{* 2}$ |
| $\mathbf{S}$ | Straight type communication plug connector ${ }^{* 3}$ |
| $\mathbf{T}$ | T-branch type communication plug connector ${ }^{* 3}$ |

*1 When "Without controller/driver" is selected for controller/driver types, I/O cable cannot be selected. Refer to page 568 (For LECP6/LECA6), page 582 (For LECP1) or page 596 (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.
*3 For the LECPMJ, only "Nil", "S" and "T" are selectable since $\mathrm{I} / \mathrm{O}$ cable is not included.

## Compatible Controller/Driver

| Type | Step data input type | Step data input type | CC-Link direct input type | Programless type | Pulse input type |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Series | LECP6 | LECA6 | LECPMJ | LECP1 | LECPA |
| Features | Value (Step Standard | data) input controller | CC-Link direct input | 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 moto (24 VDC) |  | Step motor (Servo/24 VDC) |  |
| Max. number of step data |  | 64 points |  | 14 points | - |
| Power supply voltage |  |  | 24 VDC |  |  |
| Reference page | Page 560 | Page 560 | Page 600 | Page 576 | Page 590 |


[^0]:    * Refer to the Operation Manual for using the products. Please download it via our website, http://www.smcworld.com

