●Copper (Cu) and Zinc (Zn) Free*

* Except motors, cables, controllers/drivers

●Compatible with a low dew point –70°C

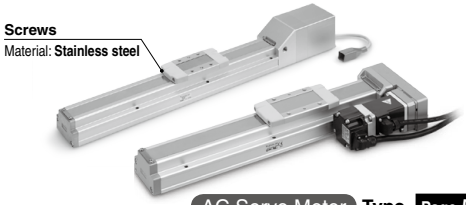
Using grease compatible with a low dew point

Series Variations

Slider Type Ball Screw Drive/*25A-LEFS*

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

Pages 538, 539-1

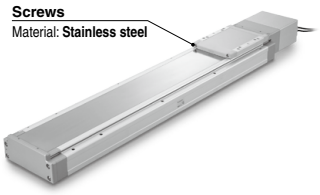


AC Servo Motor **Type** **Page 540**

Motor type \ Size	16	25	32	40
Step motor (Servo/24 VDC)	●	●	●	●
Servo motor (24 VDC)	●	●		
AC servo motor	●	●	●	●

High Rigidity Slider Type Ball Screw Drive/*25A-LEJS*

AC Servo Motor **Type** **Page 541**

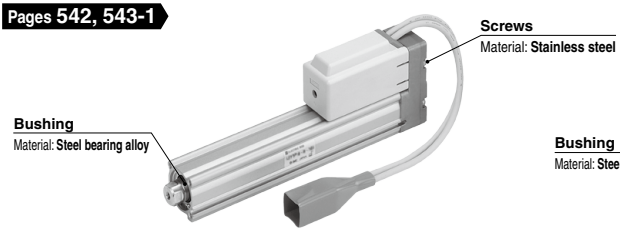


Motor type \ Size	40	63
AC servo motor	●	●

Rod Type/*25A-LEY*

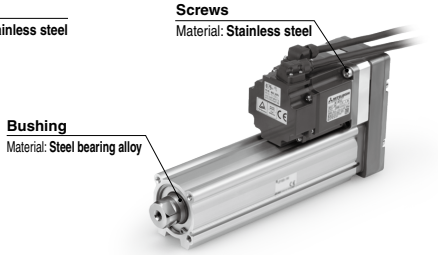
Step Motor (Servo/24 VDC) Servo Motor (24 VDC) **Type**

Pages 542, 543-1



Motor type \ Size	16	25	32	40
Step motor (Servo/24 VDC)	●	●	●	●
Servo motor (24 VDC)	●	●		

AC Servo Motor **Type** **Page 544**



Motor type \ Size	25	32
AC servo motor	●	●

* Copper and zinc materials are used for the motors, cables, controllers/drivers.

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

Electric Actuator/Slider Type

Ball Screw Drive Secondary Battery Compatible

Applicable to the LEC□ series

25A-LEFS Series LEFS16, 25, 32, 40

Refer to page 38 for model selection.

Refer to page 603-5 for the communication protocols EtherCAT®, EtherNet/IP™, PROFINET, and DeviceNet™.

How to Order

25A-LEFS H 25 R □ B – 200 □ K – S 1 6N 1 □

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾ ❿ ⓫ ⓬ ⓭

Series compatible with secondary batteries

❶ Accuracy

Nil	Basic type
H	High precision type

❷ Size

16
25
32
40

❸ Motor mounting position

Nil	In-line
R	Right side parallel
L	Left side parallel

❹ Motor type

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

❺ Lead [mm]

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

❻ Stroke [mm]

50	50
to	to
1000	1000

∗ Refer to the applicable stroke table.

❼ Motor option

Nil	Without option
B	With lock

⚠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 568 for the noise filter set. Refer to the LECA Operation Manual for installation.

③ CC-Link direct input type (LECPMJ) is not CE-compliant.

[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.

Applicable Stroke Table

●: Standard

Model \ Stroke [mm]	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	Manufacturable stroke range [mm]
LEFS16	●	●	●	●	●	●	●	●	●	●	—	—	—	—	—	—	—	—	—	—	50 to 500
LEFS25	●	●	●	●	●	●	●	●	●	●	●	●	—	—	—	—	—	—	—	—	50 to 600
LEFS32	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	—	—	—	—	50 to 800
LEFS40	—	—	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	150 to 1000

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

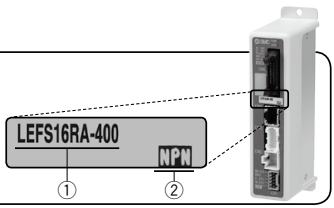
The actuator and controller/driver are sold as a package.

Confirm that the combination of the controller/driver and the actuator is correct.

<Check the following before use.>

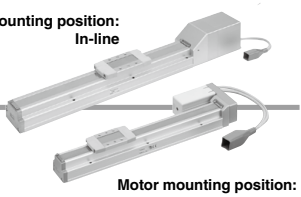
① Check the actuator label for model number (after "25A-"). This matches the controller/driver.

② Check Parallel I/O configuration matches (NPN or PNP).

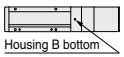
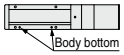


∗ Refer to the operation manual for using the products. Please download it via our website, http://www.smcworld.com

SMC



❽ Positioning pin hole

Nil	Housing B bottom*	 Housing B bottom
K	Body bottom 2 locations	 Body bottom

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

❾ Actuator cable type*1

Nil	Without cable
S	Standard cable*2
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.

❿ 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)

⓫ Controller/Driver type*1

Nil	Without controller/driver	
6N	**LECP6/LECA6** (Step data input type)	NPN
6P		PNP
1N	**LECP1***2 (Programless type)	NPN
1P		PNP
MJ	**LECPMJ***2 *3 (CC-Link direct input type)	—
AN	**LECPA***2 *4 (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-□) on page 596 separately.

⓬ I/O cable length [m]*1, Communication plug

Nil	Without cable (Without communication plug connector)*3
1	1.5
3	3*2
5	5*2
S	Straight type communication plug connector*3
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 When "CC-Link direct input type" is selected for controller/driver types, I/O cable is not included. Only "Nil", "S" or "T" can be selected.

⓭ Controller/Driver mounting

Nil	Screw mounting
D	DIN rail mounting*

* DIN rail is not included. Order it separately.

* Specifications and dimensions for the 25A-series are the same as standard products.

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 data) input Standard 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 motor (24 VDC)	Step motor (Servo/24 VDC)		
Maximum 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

* Copper and zinc materials are used for the motors, cables, controllers/drivers.

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

Electric Actuator/Slider Type

Ball Screw Drive

Secondary Battery Compatible

Applicable to the JXC□ series

25A-LEFS Series LEFS16, 25, 32, 40

Refer to page 38 for model selection.

How to Order

Refer to page 600 for the communication protocol CC-Link.

25A-LEFS H 25 R □ B – 200 □ K – R1 CD17T

Series compatible with secondary batteries

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾ ❿

❶ Accuracy

Nil	Basic type
H	High precision type

❷ Size

16
25
32
40

❸ Motor mounting position

Nil	In-line
R	Right side parallel
L	Left side parallel

❹ Motor type

Symbol	Type	Applicable size				Compatible controller
		LEFS16	LEFS25	LEFS32	LEFS40	
Nil	Step motor (Servo/24 VDC)	●	●	●	●	JXCE1 JXC91 JXCP1 JXCD1

❺ Lead [mm]

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

❻ Stroke [mm]

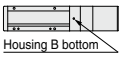
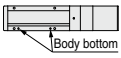
50	50
to	to
1000	1000

∗ Refer to the applicable stroke table.

❼ Motor option

Nil	Without option
B	With lock

❽ Positioning pin hole

Nil	Housing B bottom∗	
K	Body bottom 2 locations	

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

⚠Caution

[CE-compliant products]

EMC compliance was tested by combining the electric actuator LE series and the JXCE1/91/P1/D1 series.

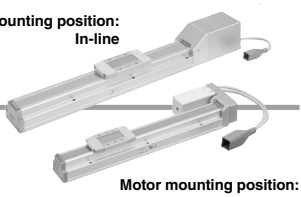
The EMC depends on the configuration of the customer's control panel and the relationship with other electrical equipment and wiring. Therefore, conformity to the EMC directive cannot be certified for SMC components incorporated into the customer's equipment under actual operating conditions. As a result, it is necessary for the customer to verify conformity to the EMC directive for the machinery and equipment as a whole.

Applicable Stroke Table

●: Standard

Model \ Stroke mm	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	Manufacturable stroke range [mm]
LEFS16	●	●	●	●	●	●	●	●	●	●	—	—	—	—	—	—	—	—	—	—	50 to 500
LEFS25	●	●	●	●	●	●	●	●	●	●	●	●	—	—	—	—	—	—	—	—	50 to 600
LEFS32	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	—	—	—	—	50 to 800
LEFS40	—	—	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	150 to 1000

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



⑨ Actuator cable type/length

Nil	Without cable
S1	Standard cable 1.5 m
S3	Standard cable 3 m
S5	Standard cable 5 m
R1	Robotic cable 1.5 m
R3	Robotic cable 3 m
R5	Robotic cable 5 m
R8	Robotic cable 8 m*1
RA	Robotic cable 10 m*1
RB	Robotic cable 15 m*1
RC	Robotic cable 20 m*1

*1 Produced upon receipt of order (Robotic cable only)
*2 The standard cable should only be used on fixed parts. For use on moving parts, select the robotic cable.

⑩ Controller

Nil	Without controller
C□1□□	With controller

C D 1 7 T

Communication protocol

E	EtherCAT®
9	EtherNet/IP™
P	PROFINET
D	DeviceNet™

For single axis

Communication plug connector for DeviceNet™

Nil	Without plug connector
S	Straight type
T	T-branch type

* Select "Nil" for anything other than DeviceNet™.

Mounting

7	Screw mounting
8*	DIN rail

* DIN rail is not included. It must be ordered separately. (Page 603-8)

* Specifications and dimensions for the 25A-series are the same as standard products.

Compatible Controller

Type	EtherCAT® direct input type	EtherNet/IP™ direct input type	PROFINET direct input type	DeviceNet™ direct input type
Series	**JXCE1**	**JXC91**	**JXCP1**	**JXCD1**
Features	EtherCAT® direct input	EtherNet/IP™ direct input	PROFINET direct input	DeviceNet™ direct input
Compatible motor	Step motor (Servo/24 VDC)			
Maximum number of step data	64 points			
Power supply voltage	24 VDC			
Reference page	Page 603-5			

* Copper and zinc materials are used for the motors, cables, controllers/drivers.

Electric Actuator/Slider Type

Ball Screw Drive Secondary Battery Compatible

25A-LEFS Series LEFS25, 32, 40

Refer to page 46 for model selection.

LECY□ Series ▶ Page 540-1

∗ See the table below

Specifications and dimensions for the 25A-series are the same as standard products.

How to Order

25A-LEFS **H** **32** **R** **S3** **B** – **200** □ **K** – **S** **2** **A2** □

Series compatible with secondary batteries

❶ **Accuracy**

Nil	Basic type
H	High precision type

❷ **Size**

25
32
40

❸ **Motor mounting position**

Nil	In-line
R	Right side parallel
L	Left side parallel

❹ **Motor type**

Symbol	Type	Output [W]	Actuator size	Compatible driver	UL-compliant
S2∗1	AC servo motor (Incremental encoder)	100	25	LECSA□-S1	—
S3		200	32	LECSA□-S3	—
S4		400	40	LECSA2-S4	—
S6∗1	AC servo motor (Absolute encoder)	100	25	LECSB□-S5 LECSC□-S5 LECSS□-S5	—
S7		200	32	LECSB□-S7 LECSC□-S7 LECSS□-S7	—
S8		400	40	LECSB2-S8 LECSC2-S8 LECSS2-S8	—
T6∗2	AC servo motor (Absolute encoder)	100	25	LECSS2-T5	●
T7		200	32	LECSS2-T7	
T8		400	40	LECSS2-T8	

∗1 For motor type S2 and S6, the compatible driver part number suffixes are S1 and S5 respectively.

∗2 For motor type T6, the compatible driver part number suffix is T5.

❺ **Lead [mm]**

Symbol	25A-LEFS25	25A-LEFS32	25A-LEFS40
A	12	16	20
B	6	8	10

❻ **Stroke [mm]**

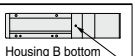
50	50
to	to
1000	1000

∗ Refer to the applicable stroke table.

❼ **Motor option**

Nil	Without option
B	With lock

❽ **Positioning pin hole**

Nil	Housing B bottom∗	 Housing B bottom
K	Body bottom 2 locations	Body bottom

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

❾ **Cable type**∗1, ∗2

Nil	Without cable
S	Standard cable
R	Robotic cable (Flexible cable)

∗1 The motor and encoder cables are included. (The lock cable is also included when the motor with lock option is selected.)

∗2 Standard cable entry direction is
- Parallel: (A) Axis side
- In-line: (B) Counter axis side

❿ **Cable length**∗ **[m]**

Nil	Without cable
2	2
5	5
A	10

∗ The length of the encoder, motor and lock cables are the same.

⓫ **Driver type**

	Compatible driver	Power supply voltage [V]	Size 25	Size 32	Size 40	UL-compliant
Nil	Without driver	—	●	●	●	—
A1	LECSA1-S□	100 to 120	●	●	—	—
A2	LECSA2-S□	200 to 230	●	●	●	—
B1	LECSB1-S□	100 to 120	●	●	—	—
B2	LECSB2-S□	200 to 230	●	●	●	—
C1	LECSC1-S□	100 to 120	●	●	—	—
C2	LECSC2-S□	200 to 230	●	●	●	—
S1	LECSS1-S□	100 to 120	●	●	—	—
S2	LECSS2-S□	200 to 230	●	●	●	—
	LECSS2-T□	200 to 240	●	●	●	●

∗ When the driver type is selected, the cable is included. Select cable type and cable length.
Example) S2S2: Standard cable (2 m) + Driver (LECSS2)
S2 : Standard cable (2 m)
Nil : Without cable and driver

⓬ **I/O cable length [m]**∗3

Nil	Without cable
H	Without cable (Connector only)
1	1.5

∗3 When "Without driver" is selected for driver type, only "Nil: Without cable" can be selected. Refer to page 624 if I/O cable is required. (Options are shown on page 624.)

Applicable Stroke Table

●: Standard

Model \ Stroke [mm]	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	Manufacturable stroke range [mm]
25A-LEFS25	●	●	●	●	●	●	●	●	●	●	●	●	—	—	—	—	—	—	—	—	50 to 600
25A-LEFS32	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	—	—	—	—	50 to 800
25A-LEFS40	—	—	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	150 to 1000

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

Compatible Driver

Driver type	Pulse input type/ Positioning type	Pulse input type	CC-Link direct input type	SSCNETⅢ type	SSCNETⅢ/H type
Series	**LECSA**	**LECSB**	**LECSC**	**LECSS**	**LECSS-T**
Number of point tables	Up to 7	—	Up to 255 (2 stations occupied)	—	—
Pulse input	○	○	—	—	—
Applicable network	—	—	CC-Link	SSCNETⅢ	SSCNETⅢ/H
Control encoder	Incremental 17-bit encoder	Absolute 18-bit encoder	Absolute 18-bit encoder	Absolute 18-bit encoder	Absolute 22-bit encoder
Communication function	USB communication	USB communication, RS422 communication	USB communication, RS422 communication	USB communication	
Power supply voltage [V]	100 to 120 VAC (50/60 Hz), 200 to 230 VAC (50/60 Hz)				200 to 240 VAC (50/60 Hz)
Reference page	Page 613				Page 607

∗ Copper and zinc materials are used for the motors, cables, controllers/drivers.

Electric Actuator/Slider Type

Ball Screw Drive Secondary Battery Compatible

25A-LEFS Series LEFS25, 32, 40

Refer to page 46 for model selection.

LECS□ Series ▶ Page 540

CE RoHS

How to Order

Specifications and dimensions for the 25A-series are the same as standard products.

25A-LEFS **H** **32** **R** **V7** **B** – **200** **□** **K** – **S** **2** **M2** **□**

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾ ❿ ⓫ ⓬

Series compatible with secondary batteries

❶ Accuracy

Nil	Basic type
H	High precision type

❷ Size

25
32
40

❸ Motor mounting position

Nil	In-line
R	Right side parallel
L	Left side parallel

❺ Lead [mm]

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

❻ Stroke [mm]

50	50
to	to
1000	1000

∗ Refer to the applicable stroke table.

❼ Motor option

Nil	Without option
B	With lock

❹ Motor type

Symbol	Type	Output [W]	Size	Compatible driver
V6∗	AC servo motor (Absolute encoder)	100	25	LECYM2-V5/LECYU2-V5
V7		200	32	LECYM2-V7/LECYU2-V7
V8		400	40	LECYM2-V8/LECYU2-V8

∗ For motor type V6, the compatible driver part number suffix is V5.

❽ Positioning pin hole

Nil	Housing B bottom∗	Housing B bottom
K	Body bottom 2 locations	Body bottom

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

❾ Cable type∗1, ∗2

Nil	Without cable
S	Standard cable
R	Robotic cable (Flexible cable)

∗1 The motor and encoder cables are included. (The lock cable is also included when the motor with lock option is selected.)

∗2 Standard cable entry direction is
- Parallel: (A) Axis side
- In-line: (B) Counter axis side

❿ Cable length∗ [m]

Nil	Without cable
3	3
5	5
A	10
C	20

∗ The length of the encoder, motor and lock cables are the same.

⓫ Driver type

	Compatible driver	Power supply voltage [V]
Nil	Without driver	—
M2	LECYM2-V□	200 to 230
U2	LECYU2-V□	200 to 230

⓬ I/O cable length [m]∗3

Nil	Without cable
H	Without cable (Connector only)
1	1.5

∗3 When "Without driver" is selected for driver type, only "Nil: Without cable" can be selected. Refer to page 624 if I/O cable is required. (Options are shown on page 624.)

Applicable Stroke Table

●: Standard

Model \ Stroke [mm]	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	Manufacturable stroke range [mm]
25A-LEFS25	●	●	●	●	●	●	●	●	●	●	●	●	—	—	—	—	—	—	—	—	50 to 600
25A-LEFS32	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	—	—	—	—	50 to 800
25A-LEFS40	—	—	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	150 to 1000

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

For auto switches, refer to pages 112-1 to 112-3.

Compatible Driver

Driver type	MECHATROLINK-Ⅱ type	MECHATROLINK-Ⅲ type
Series	**LECYM**	**LECYU**
Applicable network	MECHATROLINK-Ⅱ	MECHATROLINK-Ⅲ
Control encoder	Absolute 20-bit encoder	
Communication device	USB communication, RS-422 communication	
Power supply voltage [V]	200 to 230 VAC (50/60 Hz)	
Reference page	Page 628-1	

∗ Copper and zinc materials are used for the motors, cables, controllers/drivers.

Electric Actuator/High Rigidity Slider Type Ball Screw Drive

Secondary Battery Compatible

25A-LEJS Series LEJS40, 63

Refer to page 120 for model selection.

LECY□ Series ▶ Page 541-1

∗See the table below

How to Order

Specifications and dimensions for the 25A-series are the same as standard products.

25A-LEJS H 40 S2 A – 500 □ – □ □ □ □

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾ ❿

Series compatible with secondary batteries

❶ Accuracy

Nil	Basic type
H	High precision type

❷ Size

40
63

❺ Stroke [mm]∗3

200
to
1500

∗3 Refer to the applicable stroke table for details.

❻ Motor option

Nil	Without option
B	With lock

❸ Motor type

Symbol	Type	Output [W]	Actuator size	Compatible driver	UL-compliant
S2∗1	AC servo motor (Incremental encoder)	100	40	LECSA□-S1	—
S3	AC servo motor (Incremental encoder)	200	63	LECSA□-S3	—
S6∗1	AC servo motor (Absolute encoder)	100	40	LECSB□-S5 LECSC□-S5 LECSS□-S5	—
S7	AC servo motor (Absolute encoder)	200	63	LECSB□-S7 LECSC□-S7 LECSS□-S7	—
T6∗2	AC servo motor (Absolute encoder)	100	40	LECSS2-T5	●
T7		200	63	LECSS2-T7	

∗1 For motor type S2 and S6, the compatible driver part number suffixes are S1 and S5 respectively.

∗2 For motor type T6, the compatible driver part number suffix is T5.

❼ Cable type∗5, ∗6, ∗7

Nil	Without cable
S	Standard cable
R	Robotic cable (Flexible cable)

∗6 The motor and encoder cables are included. (The lock cable is included when the motor with lock option is selected.)

∗7 Standard cable entry is "(A) Axis side".

❽ Cable length [m]∗5, ∗8

Nil	Without cable
2	2
5	5
A	10

∗8 The length of the motor, encoder and lock cables are the same.

Applicable Stroke Table∗4

●: Standard

Model \ Stroke [mm]	200	300	400	500	600	700	800	900	1000	1200	1500
25A-LEJS40	●	●	●	●	●	●	●	●	●	●	—
25A-LEJS63	—	●	●	●	●	●	●	●	●	●	●

∗4 Please consult with SMC for non-standard strokes as they are produced as special orders.

❹ Lead [mm]

Symbol	25A-LEJS40	25A-LEJS63
H	24	30
A	16	20
B	8	10

❾ Driver type∗5

	Compatible driver	Power supply voltage [V]	UL-compliant
Nil	Without driver	—	—
A1	LECSA1-S□	100 to 120	—
A2	LECSA2-S□	200 to 230	—
B1	LECSB1-S□	100 to 120	—
B2	LECSB2-S□	200 to 230	—
C1	LECSC1-S□	100 to 120	—
C2	LECSC2-S□	200 to 230	—
S1	LECSS1-S□	100 to 120	—
S2	LECSS2-S□	200 to 230	—
	LECSS2-T□	200 to 240	●

∗5 When the driver type is selected, the cable is included. Select cable type and cable length.
Example)
S2S2: Standard cable (2 m) + Driver (LECSS2)
S2 : Standard cable (2 m)
Nil : Without cable and driver

❿ I/O cable length [m]∗9

Nil	Without cable
H	Without cable (Connector only)
1	1.5

∗9 When "Without driver" is selected for driver type, only "Nil: Without cable" can be selected. Refer to page 624 if I/O cable is required. (Options are shown on page 624.)

For auto switches, refer to pages 142 to 144.

Compatible Driver

Driver type	Pulse input type/ Positioning type	Pulse input type	CC-Link direct input type	SSCNETⅢ type	SSCNETⅢ/H type
Series	LECSA	LECSB	LECSC	LECSS	LECSS-T
Number of point tables	Up to 7	—	Up to 255	—	—
Pulse input	○	○	—	—	—
Applicable network	—	—	CC-Link	SSCNETⅢ	SSCNETⅢ/H
Control encoder	Incremental 17-bit encoder	Absolute 18-bit encoder	Absolute 18-bit encoder	Absolute 18-bit encoder	Absolute 22-bit encoder
Communication function	USB communication	USB communication, RS422 communication	USB communication, RS422 communication	USB communication	
Power supply voltage [V]	100 to 120 VAC (50/60 Hz), 200 to 230 VAC (50/60 Hz)				200 to 240 VAC (50/60 Hz)
Reference page	Page 613				Page 607

∗ Copper and zinc materials are used for the motors, cables, controllers/drivers.

Electric Actuator/High Rigidity Slider Type Ball Screw Drive

Secondary Battery Compatible

25A-LEJS Series LEJS40, 63

CE RoHS

Refer to page 120 for model selection.

LECS□ Series ▶ Page 541

How to Order

Specifications and dimensions for the 25A-series are the same as standard products.

25A-LEJS **H** **40** **V6** **A** – **500** ❶ ❷ ❸ ❹ ❺ ❻ – ❼ ❽ ❾ ❿

Series compatible with secondary batteries

❶ Accuracy

Nil	Basic type
H	High precision type

❷ Size

40
63

❸ Motor type *1

Symbol	Type	Output [W]	Actuator size	Compatible driver
V6	AC servo motor (Absolute encoder)	100	40	LECYM2-V5 LECYU2-V5
V7	AC servo motor (Absolute encoder)	200	63	LECYM2-V7 LECYU2-V7

*1 For motor type V6, the compatible driver part number suffix is V5.

❹ Lead [mm]

Symbol	25A-LEJS40	25A-LEJS63
H	24	30
A	16	20
B	8	10

❺ Stroke [mm] *3

200
to
1500

*3 Refer to the applicable stroke table for details.

❻ Motor option

Nil	Without option
B	With lock

❼ Cable type *5, *6, *7

Nil	Without cable
S	Standard cable
R	Robotic cable (Flexible cable)

*6 The motor and encoder cables are included. (The lock cable is included when the motor with lock option is selected.)

*7 Standard cable entry is "(A) Axis side".

❽ Cable length [m] *5, *6

Nil	Without cable
3	3
5	5
A	10
C	20

*6 The length of the motor, encoder and lock cables are the same.

❾ Driver type *5

	Compatible driver	Power supply voltage [V]
Nil	Without driver	—
M2	LECYM2-V□	200 to 230
U2	LECYU2-V□	200 to 230

*5 When the driver type is selected, the cable is included. Select cable type and cable length.
Example)
S2S2: Standard cable (2 m) + Driver (LECSS2)
S2 : Standard cable (2 m)
Nil : Without cable and driver

❿ I/O cable length [m] *9

Nil	Without cable
H	Without cable (Connector only)
1	1.5

*9 When "Without driver" is selected for driver type, only "Nil: Without cable" can be selected.
Refer to page 624 if I/O cable is required.
(Options are shown on page 624.)

Applicable Stroke Table *4

●: Standard

Model \ Stroke [mm]	200	300	400	500	600	700	800	900	1000	1200	1500
25A-LEJS40	●	●	●	●	●	●	●	●	●	●	—
25A-LEJS63	—	●	●	●	●	●	●	●	●	●	●

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

Solid state auto switches should be ordered separately.
For details about auto switches, refer to the Web Catalog.

Applicable auto switches
D-M9N(V)-900, D-M9P(V)-900, D-M9B(V)-900
D-M9NW(V)-900, D-M9PW(V)-900, D-M9BW(V)-900

Compatible Driver

Driver type	MECHATROLINK-Ⅱ type	MECHATROLINK-Ⅲ type
Series	**LECYM**	**LECYU**
Applicable network	MECHATROLINK-Ⅱ	MECHATROLINK-Ⅲ
Control encoder	Absolute 20-bit encoder	
Communication device	USB communication, RS-422 communication	
Power supply voltage [V]	200 to 230 VAC (50/60 Hz)	
Reference page	Page 628-1	

* Copper and zinc materials are used for the motors, cables, controllers/drivers.

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

Electric Actuator/ Rod Type

Secondary Battery Compatible

Applicable to the LEC□ series

25A-LEY Series LEY16, 25, 32, 40

RoHS

Refer to page 222 for model selection.

Refer to page 603-5 for the communication protocols EtherCAT®, EtherNet/IP™, PROFINET, and DeviceNet™.

How to Order

25A-LEY **16** **□** **□** **B** – **100** **C** **□** **□** – **S1** **6N** **1** **□**

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾ ❿ ⓫ ⓬

Series compatible with secondary batteries

❶ Size

16
25
32
40

❷ Motor mounting position

Nil	Top mounting
R	Right side parallel
L	Left side parallel
D	In-line

❸ Motor type

Symbol	Type	Size LEY16	Size LEY25	Size LEY32/40	Compatible controller/driver
Nil	Step motor (Servo/24 VDC)	●	●	●	LECP6 LECP1 LECPA LECPMJ
A	Servo motor (24 VDC)	●	●	—	LECA6

❹ Lead [mm]

Symbol	LEY16	LEY25	LEY32/40
A	10	12	16
B	5	6	8
C	2.5	3	4

❺ Stroke [mm]

30	30
to	to
500	500

∗ Refer to the applicable stroke table.

❻ Motor option

C	With motor cover
W	With lock/motor cover

∗ When "With lock/motor cover" is selected for the top mounting and right/left side parallel types, the motor body will stick out of the end of the body for size 16/40 with strokes 30 mm or less. Check for interference with workpieces before selecting a model.

❼ Rod end thread

Nil	Rod end female thread
M	Rod end male thread (1 rod end nut is included.)

Mounting Bracket Part No. for 25A- Series

Applicable size	Foot ∗1	Flange	Double clevis
16	25-LEY-L016	25-LEY-F016	25-LEY-D016
25	25-LEY-L025	25-LEY-F025	25-LEY-D025
32, 40	25-LEY-L032	25-LEY-F032	25-LEY-D032
Surface treatment	RAYDENT®	RAYDENT®	Coating (Size 16: Electroless nickel plating)

∗1 When ordering foot brackets, order 2 pieces per actuator.
∗2 Parts belonging to each bracket are as follows.
Foot, Flange: Body mounting bolt, Double clevis: Clevis pin, Type C retaining ring for axis, Body mounting bolt

∗ Applicable stroke table ●: Standard

Model \ Stroke [mm]	30	50	100	150	200	250	300	350	400	450	500	Manufacturable stroke range [mm]
LEY16	●	●	●	●	●	●	●	—	—	—	—	10 to 300
LEY25	●	●	●	●	●	●	●	●	●	—	—	15 to 400
LEY32/40	●	●	●	●	●	●	●	●	●	●	●	20 to 500

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

⚠Caution

[CE-compliant products]

① EMC compliance was tested by combining the electric actuator LEY 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 568 for the noise filter set. Refer to the LECA Operation Manual for installation.

③ CC-Link direct input type (LECPMJ) is not CE-compliant.

[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.

Solid state auto switches should be ordered separately. For details about auto switches, refer to the Web Catalog.

Applicable auto switches
D-M9N(V)-900, D-M9P(V)-900, D-M9B(V)-900
D-M9NW(V)-900, D-M9PW(V)-900, D-M9BW(V)-900

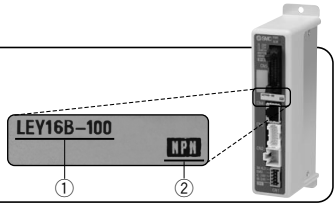
The actuator and controller/driver are sold as a package.

Confirm that the combination of the controller/driver and the actuator is correct.

<Check the following before use.>

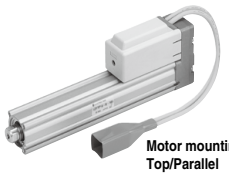
① Check the actuator label for model number (after "25A-"). This matches the controller/driver.

② Check Parallel I/O configuration matches (NPN or PNP)

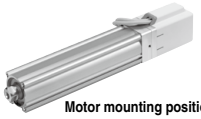


∗ Refer to the operation manual for using the products. Please download it via our website, http://www.smcworld.com

SMC



Motor mounting position: Top/Parallel



Motor mounting position: In-line

❽ Mounting*1

Symbol	Type	Motor mounting position	
		Top/Parallel	In-line
Nil	Ends tapped/ Body bottom tapped *2	●	●
L	Foot	●	—
F	Rod flange*2	●	●
G	Head flange*2	●*4	—
D	Double clevis*3	●	—

*1 Mounting bracket is shipped together, (but not assembled).
*2 For horizontal cantilever mounting with the rod flange, head flange and ends tapped, use the actuator within the following stroke range.
· LEY25: 200 mm or less
· LEY32/40: 100 mm or less
*3 For mounting with the double clevis, use the actuator within the following stroke range.
· LEY16: 100 mm or less
· LEY25: 200 mm or less
· LEY32/40: 200 mm or less
*4 Head flange is not available for the LEY32/40.

❾ Actuator cable type/length*2

Nil	Without cable
S1	Standard cable 1.5 m*3
S3	Standard cable 3 m*3
S5	Standard cable 5 m*3
R1	Robotic cable 1.5 m
R3	Robotic cable 3 m
R5	Robotic cable 5 m
R8	Robotic cable 8 m*1
RA	Robotic cable 10 m*1
RB	Robotic cable 15 m*1
RC	Robotic cable 20 m*1

*1 Produced upon receipt of order (Robotic cable only)
*2 The standard cable should only be used on fixed parts. For use on moving parts, select the robotic cable.
*3 Only available for the motor type "Step motor."

❿ Controller/Driver type*1

Nil	Without controller/driver	
6N	**LECP6/LECA6** (Step data input type)	NPN
6P		PNP
1N	**LECP1***2 (Programless type)	NPN
1P		PNP
MJ	**LECPMJ***2 *3 (CC-Link direct input type)	—
AN	**LECPA***2 *4 (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-□) on page 596 separately.

⓫ I/O cable length [m]*1, Communication plug

Nil	Without cable (Without communication plug connector)*3
1	1.5
3	3*2
5	5*2
S	Straight type communication plug connector*3
T	T-branch type communication plug connector*3

⓬ Controller/Driver mounting

Nil	Screw mounting
D	DIN rail mounting*1

*1 DIN rail is not included. Order it separately.

*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 When "CC-Link direct input type" is selected for controller/driver types, I/O cable is not included. Only "Nil", "S" or "T" can be selected.

* Specifications and dimensions for the 25A-series are the same as standard products.

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 data) input Standard 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 motor (24 VDC)	Step motor (Servo/24 VDC)		
Maximum 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

* Copper and zinc materials are used for the motors, cables, controllers/drivers.

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

Electric Actuator/ Rod Type

Secondary Battery Compatible

Applicable to the JXC□ series

25A-LEY Series LEY16, 25, 32, 40

Refer to page 222 for model selection.

How to Order

Refer to page 600 for the communication protocol CC-Link.

25A-LEY 16 □ □ B – 100 C □ □ – R1 CD17T

Series compatible with secondary batteries

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾ ❿

❶ Size

16
25
32
40

❷ Motor mounting position

Nil	Top mounting
R	Right side parallel
L	Left side parallel
D	In-line

❸ Motor type

Symbol	Type	Size			Compatible controller
		LEY16	LEY25	LEY32/40	
Nil	Step motor (Servo/24 VDC)	●	●	●	JXCE1 JXC91 JXCP1 JXCD1

❹ Lead [mm]

Symbol	LEY16	LEY25	LEY32/40
A	10	12	16
B	5	6	8
C	2.5	3	4

❺ Stroke [mm]

30	30
to	to
500	500

∗ Refer to the applicable stroke table.

❻ Motor option

C	With motor cover
W	With lock/motor cover

∗ When "With lock/motor cover" is selected for the top mounting and right/left side parallel types, the motor body will stick out of the end of the body for size 16/40 with strokes 30 mm or less. Check for interference with workpieces before selecting a model.

❼ Rod end thread

Nil	Rod end female thread
M	Rod end male thread (1 rod end nut is included.)

⚠Caution

[CE-compliant products]

EMC compliance was tested by combining the electric actuator LE series and the JXCE1/91/P1/D1 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.

Mounting Bracket Part No. for 25A- Series

Applicable size	Foot∗1	Flange	Double clevis
16	25-LEY-L016	25-LEY-F016	25-LEY-D016
25	25-LEY-L025	25-LEY-F025	25-LEY-D025
32, 40	25-LEY-L032	25-LEY-F032	25-LEY-D032
Surface treatment	RAYDENT®	RAYDENT®	Coating (Size 16: Electroless nickel plating)

∗1 When ordering foot brackets, order 2 pieces per actuator.

∗2 Parts belonging to each bracket are as follows.
Foot, Flange: Body mounting bolt, Double clevis: Clevis pin, Type C retaining ring for axis, Body mounting bolt

∗ Applicable Stroke Table ●: Standard

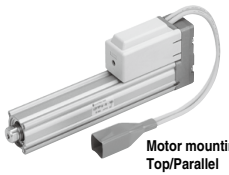
Model \ Stroke [mm]	30	50	100	150	200	250	300	350	400	450	500	Manufacturable stroke range [mm]
LEY16	●	●	●	●	●	●	●	—	—	—	—	10 to 300
LEY25	●	●	●	●	●	●	●	●	●	—	—	15 to 400
LEY32/40	●	●	●	●	●	●	●	●	●	●	●	20 to 500

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

Solid state auto switches should be ordered separately.
For details about auto switches, refer to the Web Catalog.

Applicable auto switches
D-M9N(V)-900, D-M9P(V)-900, D-M9B(V)-900
D-M9NW(V)-900, D-M9PW(V)-900, D-M9BW(V)-900

SMC



Motor mounting position: Top/Parallel

Motor mounting position: In-line

❽ Mounting*1

Symbol	Type	Motor mounting position	
		Top/Parallel	In-line
Nil	Ends tapped/ Body bottom tapped *2	●	●
L	Foot	●	—
F	Rod flange*2	●	●
G	Head flange*2	●*4	—
D	Double clevis*3	●	—

*1 Mounting bracket is shipped together, (but not assembled).
*2 For horizontal cantilever mounting with the rod flange, head flange and ends tapped, use the actuator within the following stroke range.
· LEY25: 200 mm or less
· LEY32/40: 100 mm or less
*3 For mounting with the double clevis, use the actuator within the following stroke range.
· LEY16: 100 mm or less
· LEY25: 200 mm or less
· LEY32/40: 200 mm or less
*4 Head flange is not available for the LEY32/40.

❾ Actuator cable type/length

Nil	Without cable
S1	Standard cable 1.5 m
S3	Standard cable 3 m
S5	Standard cable 5 m
R1	Robotic cable 1.5 m
R3	Robotic cable 3 m
R5	Robotic cable 5 m
R8	Robotic cable 8 m*1
RA	Robotic cable 10 m*1
RB	Robotic cable 15 m*1
RC	Robotic cable 20 m*1

*1 Produced upon receipt of order (Robotic cable only)
*2 The standard cable should only be used on fixed parts. For use on moving parts, select the robotic cable.

❿ Controller

Nil	Without controller
C□1□□	With controller

C D 1 7 T

Communication protocol

E	EtherCAT®
9	EtherNet/IP™
P	PROFINET
D	DeviceNet™

For single axis

Mounting

7	Screw mounting
8*	DIN rail

* DIN rail is not included. It must be ordered separately. (Page 603-8)

Communication plug connector for DeviceNet™

Nil	Without plug connector
S	Straight type
T	T-branch type

* Select "Nil" for anything other than DeviceNet™.

* Specifications and dimensions for the 25A-series are the same as standard products.

Compatible Controller

Type	EtherCAT® direct input type	EtherNet/IP™ direct input type	PROFINET direct input type	DeviceNet™ direct input type
Series	**JXCE1**	**JXC91**	**JXCP1**	**JXCD1**
Features	EtherCAT® direct input	EtherNet/IP™ direct input	PROFINET direct input	DeviceNet™ direct input
Compatible motor	Step motor (Servo/24 VDC)			
Maximum number of step data	64 points			
Power supply voltage	24 VDC			
Reference page	Page 603-5			

* Copper and zinc materials are used for the motors, cables, controllers/drivers.

Electric Actuator/ Rod Type

Secondary Battery Compatible

25A-LEY Series LEY25, 32

Size 25, 32

∗ See the table below

RoHS

LECY□ Series ▶ Page 545-1

Refer to page 232 for model selection.

How to Order

Specifications and dimensions for the 25A-series are the same as standard products.

25A-LEY H 25 □ S2 B – 100 □ □ □ – S 2 A1 □

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾ ❿ ⓫ ⓬ ⓭

Series compatible with secondary batteries

❶ Accuracy

Nil	Basic type
H	High precision type

❷ Size

25
32

❸ Motor mounting position

Nil	Top mounting
R	Right side parallel
L	Left side parallel
D	In-line

❹ Motor type∗1

Symbol	Type	Output [W]	Actuator size	Compatible drivers∗3	UL-compliant
S2∗1	AC servo motor (Incremental encoder)	100	25	LECSA□-S1	—
S3	AC servo motor (Incremental encoder)	200	32	LECSA□-S3	—
S6∗1	AC servo motor (Absolute encoder)	100	25	LECSB□-S5 LECSC□-S5 LECSS□-S5	—
S7	AC servo motor (Absolute encoder)	200	32	LECSB□-S7 LECSC□-S7 LECSS□-S7	—
T6∗2	AC servo motor (Absolute encoder)	100	25	LECSS2-T5	—
T7		200	32	LECSS2-T7	●

∗1 For motor type S2 and S6, the compatible driver part number suffixes are S1 and S5 respectively.
∗2 For motor type T6, the compatible driver part number suffix is T5.
∗3 For details about the driver, refer to page 607.

❺ Lead [mm]

Symbol	LEY25	LEY32∗
A	12	16 (20)
B	6	8 (10)
C	3	4 (5)

∗ The values shown in ( ) are the lead for size 32 top mounting, right/left side parallel types. (Equivalent lead which includes the pulley ratio [1.25:1])

❻ Stroke [mm]

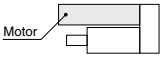
30	30
to	to
500	500

∗ Refer to the applicable stroke table for details.

❼ Motor option

Nil	Without option
B	With lock∗

∗ When "With lock" is selected for the top mounting and right/left side parallel types, the motor body will stick out of the end of the body for size 25 with strokes 30 mm or less. Check for interference with workpieces before selecting a model.



❽ Rod end thread

Nil	Rod end female thread
M	Rod end male thread (1 rod end nut is included.)

❾ Mounting∗1

Symbol	Type	Motor mounting position: Top/Parallel	Motor mounting position: In-line
Nil	Ends tapped/ Body bottom tapped∗2	●	●
L	Foot	●	—
F	Rod flange∗2	●∗4	●
G	Head flange∗2	●∗5	—
D	Double clevis∗3	●	—

∗1 Mounting bracket is shipped together, (but not assembled).
∗2 For horizontal cantilever mounting with the rod flange, head flange and ends tapped, use the actuator within the following stroke range.
· 25A-LEY25: 200 mm or less
· 25A-LEY32: 100 mm or less
∗3 For mounting with the double clevis, use the actuator within the following stroke range.
· 25A-LEY25: 200 mm or less
· 25A-LEY32: 100 mm or less
∗4 Rod flange is not available for the LEY25 with stroke 30 mm and motor option "With lock".
∗5 Head flange is not available for the 25A-LEY32.

Mounting Bracket Part No. for 25A- Series

Applicable size	Foot∗1	Flange	Double clevis
25	25-LEY-L025	25-LEY-F025	25-LEY-D025
32	25-LEY-L032	25-LEY-F032	25-LEY-D032
Surface treatment	RAYDENT®	RAYDENT®	Coating (Size 16: Electroless nickel plating)

∗1 When ordering foot brackets, order 2 pieces per actuator.
∗2 Parts belonging to each bracket are as follows.
Foot, Flange: Body mounting bolt, Double clevis: Clevis pin, Type C retaining ring for axis, Body mounting bolt

∗ Applicable stroke table

●: Standard

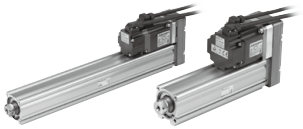
Model \ Stroke [mm]	30	50	100	150	200	250	300	350	400	450	500	Manufacturable stroke range [mm]
25A-LEY25	●	●	●	●	●	●	●	●	●	—	—	15 to 400
25A-LEY32	●	●	●	●	●	●	●	●	●	●	●	20 to 500

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

Solid state auto switches should be ordered separately.
For details about auto switches, refer to the Web Catalog.

Applicable auto switches
D-M9N(V)-900, D-M9P(V)-900, D-M9B(V)-900
D-M9NW(V)-900, D-M9PW(V)-900, D-M9BW(V)-900

SMC



Motor mounting position: Top/Parallel

Motor mounting position: In-line

⑩ Cable type*

Nil	Without cable
S	Standard cable
R	Robotic cable (Flexible cable)

* The motor and encoder cables are included. (The lock cable is also included when the motor with lock option is selected.)
* Standard cable entry direction is
  · Top/Parallel: (A) Axis side
  · In-line: (B) Counter axis side

⑪ Cable length* [m]

Nil	Without cable
2	2
5	5
A	10

* The length of the encoder, motor and lock cables are the same.

⑫ Driver type*

	Compatible driver	Power supply voltage [V]	UL-compliant
Nil	Without driver	—	—
A1	LECSA1-S□	100 to 120	—
A2	LECSA2-S□	200 to 230	—
B1	LECSB1-S□	100 to 120	—
B2	LECSB2-S□	200 to 230	—
C1	LECSC1-S□	100 to 120	—
C2	LECSC2-S□	200 to 230	—
S1	LECSS1-S□	100 to 120	—
S2	LECSS2-S□	200 to 230	—
	LECSS2-T□	200 to 240	●

* When the driver type is selected, the cable is included. Select cable type and cable length.
  Example)
  S2S2: Standard cable (2 m) + Driver (LECSS2)
  S2 : Standard cable (2 m)
  Nil : Without cable and driver

⑬ I/O cable length [m]*

Nil	Without cable
H	Without cable (Connector only)
1	1.5

* When "Without driver" is selected for driver type, only "Nil: Without cable" can be selected. Refer to page 624 if I/O cable is required. (Options are shown on page 624.)

Compatible Driver

Driver type	**Pulse input type/ Positioning type**	**Pulse input type**	**CC-Link direct input type**	**SSCNET Ⅲ type**	**SSCNET Ⅲ/H type**
Series	**LECSA**	**LECSB**	**LECSC**	**LECSS**	**LECSS-T**
Number of point tables	Up to 7	—	Up to 255 (2 stations occupied)	—	—
Pulse input	○	○	—	—	—
Applicable network	—	—	CC-Link	SSCNET Ⅲ	SSCNET Ⅲ/H
Control encoder	Incremental 17-bit encoder	Absolute 18-bit encoder	Absolute 18-bit encoder	Absolute 18-bit encoder	Absolute 22-bit encoder
Communication function	USB communication	USB communication, RS422 communication	USB communication, RS422 communication	USB communication	
Power supply voltage [V]	100 to 120 VAC (50/60 Hz), 200 to 230 VAC (50/60 Hz)				200 to 240 VAC (50/60 Hz)
Reference page	Page 613				Page 607

* Copper and zinc materials are used for the motors, cables, controllers/drivers.

Electric Actuator/ Rod Type

Secondary Battery Compatible

25A-LEY Series LEY25, 32

Size 25, 32

CE RoHS

LECY□ Series ▶ Page 544

Refer to page 232 for model selection.

How to Order

Specifications and dimensions for the 25A-series are the same as standard products.

25A-LEY H 25 □ V6 B – 100 □ □ □ – S 2 M2 □

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾ ❿ ⓫ ⓬ ⓭

Series compatible with secondary batteries

❶ Accuracy

Nil	Basic type
H	High precision type

❷ Size

25
32

❸ Motor mounting position

Nil	Top mounting
R	Right side parallel
L	Left side parallel
D	In-line

❹ Motor type

Symbol	Type	Output [W]	Size	Compatible driver
V6*	AC servo motor (Absolute encoder)	100	25	LECYM2-V5 LECYU2-V5
V7		200	32	LECYM2-V7 LECYU2-V7
V8		400	63	LECYM2-V8 LECYU2-V8

* For motor type V6, the compatible driver part number suffix is V5.

❺ Lead [mm]

Symbol	25A-LEY25	25A-LEY32*
A	12	16 (20)
B	6	8 (10)
C	3	4 (5)

* The values shown in ( ) are the lead for size 32 top mounting, right/left side parallel types. (Equivalent lead which includes the pulley ratio [1.25:1])

❻ Stroke [mm]

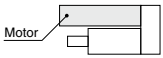
30	30
to	to
500	500

* Refer to the applicable stroke table for details.

❼ Motor option

Nil	Without option
B	With lock*

* When "With lock" is selected for the top mounting and right/left side parallel types, the motor body will stick out of the end of the body for size 25 with strokes 30 mm or less. Check for interference with workpieces before selecting a model.



❽ Rod end thread

Nil	Rod end female thread
M	Rod end male thread (1 rod end nut is included.)

❾ Mounting*1

Symbol	Type	Motor mounting position: Top/Parallel	Motor mounting position: In-line
Nil	Ends tapped/ Body bottom tapped *2	●	●
L	Foot	●	—
F	Rod flange*2	●*4	●
G	Head flange*2	●*5	—
D	Double clevis*3	●	—

*1 Mounting bracket is shipped together, (but not assembled).
*2 For horizontal cantilever mounting with the rod flange, head flange and ends tapped, use the actuator within the following stroke range.
· LEY25: 200 mm or less · LEY32: 100 mm or less
*3 For mounting with the double clevis, use the actuator within the following stroke range.
· LEY25: 200 mm or less · LEY32: 200 mm or less
*4 Rod flange is not available for the LEY25 with stroke 30 mm and motor option "With lock".
*5 Head flange is not available for the LEY32.

Mounting Bracket Part No. for 25A- Series

Applicable size	Foot*1	Flange	Double clevis
25	25-LEY-L025	25-LEY-F025	25-LEY-D025
32	25-LEY-L032	25-LEY-F032	25-LEY-D032
Surface treatment	RAYDENT®	RAYDENT®	Coating (Size 16: Electroless nickel plating)

*1 When ordering foot brackets, order 2 pieces per actuator.
*2 Parts belonging to each bracket are as follows.
Foot, Flange: Body mounting bolt, Double clevis: Clevis pin, Type C retaining ring for axis, Body mounting bolt

* Applicable stroke table

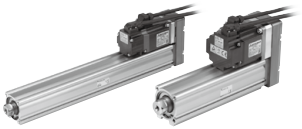
●: Standard

Model \ Stroke [mm]	30	50	100	150	200	250	300	350	400	450	500	Manufacturable stroke range [mm]
25A-LEY25	●	●	●	●	●	●	●	●	●	—	—	15 to 400
25A-LEY32	●	●	●	●	●	●	●	●	●	●	●	20 to 500

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

Solid state auto switches should be ordered separately.
For details about auto switches, refer to the Web Catalog.

Applicable auto switches
D-M9N(V)-900, D-M9P(V)-900, D-M9B(V)-900
D-M9NW(V)-900, D-M9PW(V)-900, D-M9BW(V)-900



Motor mounting position: Top/Parallel

Motor mounting position: In-line

⑩ Cable type*

Nil	Without cable
S	Standard cable
R	Robotic cable (Flexible cable)

* The motor and encoder cables are included. (The lock cable is also included when the motor with lock option is selected.)
* Standard cable entry direction is
  · Top/Parallel: (A) Axis side
  · In-line: (B) Counter axis side

⑪ Cable length [m]*

Nil	Without cable
3	3
5	5
A	10
C	20

* The length of the motor and encoder cables are the same. (For with lock)

⑫ Driver type

	Compatible driver	Power supply voltage [V]
Nil	Without driver	—
M2	LECYM2-V□	200 to 230
U2	LECYU2-V□	200 to 230

* When the driver type is selected, the cable is included. Select cable type and cable length.

⑬ I/O cable length [m]*

Nil	Without cable
H	Without cable (Connector only)
1	1.5

* When "Without driver" is selected for driver type, only "Nil: Without cable" can be selected. Refer to page 624 if I/O cable is required. (Options are shown on page 624.)

Compatible Driver

Driver type	MECHATROLINK-Ⅱ type	MECHATROLINK-Ⅲ type
Series	**LECYM**	**LECYU**
Applicable network	MECHATROLINK-Ⅱ	MECHATROLINK-Ⅲ
Control encoder	Absolute 20-bit encoder	
Communication device	USB communication, RS-422 communication	
Power supply voltage [V]	200 to 230 VAC (50/60 Hz)	
Reference page	Page 628-1	

* Copper and zinc materials are used for the motors, cables, controllers/drivers.

Specific Product Precautions

Be sure to read this before handling the products.

Handling

⚠Caution

■Change of material

25A- series are copper- and zinc-free products, however, some parts including motors, cables, drivers, and coils for auto switches, and connector pins and lead wires, whose material can not be changed, are made of copper.

■Chemical environment

Refrain from using the products in such environments as exposed to chemicals. Otherwise, resin parts may deteriorate.
If you want SMC to test the products for the effects of chemicals attached to them, send the products back to SMC after thoroughly cleaning them. Please consult your SMC sales representative for further details.