

Electric Actuator/Slider Type Ball Screw Drive

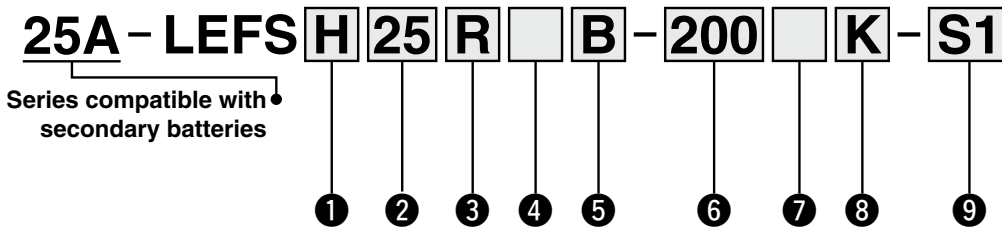
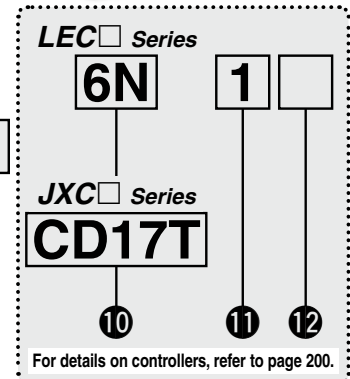
Secondary Battery Compatible



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

Refer to page 37 for model selection.

How to Order



1 Accuracy

Nil	Basic type
H	High-precision type

2 Size

16
25
32
40

3 Motor mounting position

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

4 Motor type

Symbol	Type	Applicable size				Compatible controller/driver
		LEFS16	LEFS25	LEFS32	LEFS40	
Nil	Step motor (Servo/24 VDC)	●	●	●	●	LECP6 JXCE1 LECP1 JXC91 LECPA JXCP1 LECPMJ JXCD1 JXCL1
A	Servo motor (24 VDC)	●	●	—	—	LECA6

5 Lead [mm]

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

6 Stroke*1 [mm]

Stroke	Size	Note
		Applicable stroke
50 to 500	16	50, 100, 150, 200, 250, 300, 350, 400, 450, 500
50 to 600	25	50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600
50 to 800	32	50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800
150 to 1000	40	150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950, 1000

7 Motor option

Nil	Without option
B	With lock

8 Positioning pin hole

Nil	Housing B bottom*2	
K	Body bottom 2 locations	

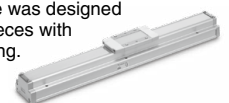
9 Actuator cable type/length*4

Standard cable [m]		Robotic cable [m]	
Nil	None	R1	1.5
S1	1.5*6	RA	10*3
S3	3*6	R3	3
S5	5*6	RB	15*3
		R5	5
		RC	20*3
		R8	8*3

Support Guide/LEFG Series

The support guide was designed to support workpieces with significant overhang.

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For auto switches, refer to pages 169 to 172.

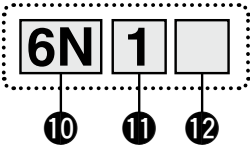
Electric Actuator/Slider Type Ball Screw Drive **25A-LEFS Series**

Step Motor (Servo/24 VDC)

Servo Motor (24 VDC)

Secondary Battery Compatible

LEC Series (For details, refer to page 201.)



10 Controller/Driver type*5

Nil	Without controller/driver	
6N	LECP6/LECA6	NPN
6P	(Step data input type)	PNP
1N	LECP1 *6	NPN
1P	(Programless type)	PNP
MJ	LECPMJ *6 *7 (CC-Link direct input type)	—
AN	LECPA *6 *8	NPN
AP	(Pulse input type)	PNP

11 I/O cable length*9, Communication plug

Nil	Without cable (Without communication plug connector)*11
1	1.5 m
3	3 m*10
5	5 m*10
S	Straight type communication plug connector*11
T	T-branch type communication plug connector*11



12 Controller/Driver mounting

Nil	Screw mounting
D	DIN rail*12

JXC Series (For details, refer to page 201.)

10 Controller

Nil	Without controller
C□1□□	With controller



Communication protocol

E	EtherCAT®
9	EtherNet/IP™
P	PROFINET
D	DeviceNet™
L	IO-Link

Mounting

7	Screw mounting
8*12	DIN rail

• For single axis

Communication plug connector for DeviceNet™*13

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



- *1 Please consult with SMC for non-standard strokes as they are produced as special orders.
- *2 Refer to the body mounting example on page 205 for the mounting method.
- *3 Produced upon receipt of order (Robotic cable only)
- *4 The standard cable should only be used on fixed parts.
For use on moving parts, select the robotic cable.
- *5 For details on controllers/drivers and compatible motors, refer to the compatible controller/driver on the next page.
- *6 Only available for the motor type "Step motor"
- *7 Not compliant with CE

- *8 When pulse signals are open collector, order the current limiting resistor (LEC-PA-R-□) on page 236 separately.
- *9 When "Without controller/driver" is selected for controller/driver types, I/O cable cannot be selected. Refer to page 215 (For LECP6/LECA6), page 229 (For LECP1), or page 236 (For LECPA) if I/O cable is required.
- *10 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
- *11 For the LECPMJ, only "Nil," "S," and "T" are selectable since I/O cable is not included.
- *12 The DIN rail is not included. Order it separately.
- *13 Select "Nil" for anything other than DeviceNet™.

⚠ Caution

[CE-compliant products]

- ① EMC compliance was tested by combining the electric actuator LEF series and the controller LEC/JXC series.
The EMC depends on the configuration of the customer's control panel and the relationship with other electrical equipment and wiring. Therefore, compliance with 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 compliance with 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 215 for the noise filter set. Refer to the LECA series Operation Manual for installation.
- ③ CC-Link direct input type (LECPMJ) is not CE-compliant.

[UL-compliant products (For the LEC series)]

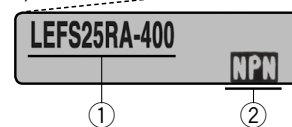
When compliance with UL is required, the electric actuator and controller/driver should be used with a UL1310 Class 2 power supply.

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

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

<Check the following before use.>

- ① Check the actuator label for the model number (after "25A-"). This number should match that of the controller/driver.
- ② Check that the Parallel I/O configuration matches (NPN or PNP).



* Refer to the Operation Manual for using the products. Please download it via our website, <https://www.smcworld.com>

25A-LEFS Series






Step Motor (Servo/24 VDC)

Servo Motor (24 VDC)






Secondary Battery Compatible

Compatible Controller/Driver

LEC Series

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)		
Max. number of step data	64 points		14 points		—
Power supply voltage	24 VDC				
Reference page	207	207	240	223	230

JXC Series

Type	 EtherCAT® direct input type	 EtherNet/IP™ direct input type	 PROFINET direct input type	 DeviceNet™ direct input type	 IO-Link direct input type
Series	JXCE1	JXC91	JXCP1	JXCD1	JXCL1
Features	EtherCAT® direct input	EtherNet/IP™ direct input	PROFINET direct input	DeviceNet™ direct input	IO-Link direct input
Compatible motor	Step motor (Servo/24 VDC)				
Max. number of step data	64 points				
Power supply voltage	24 VDC				
Reference page	248				

Electric Actuator/Slider Type Ball Screw Drive

Secondary Battery Compatible

25A-LEFS Series LEFS25, 32, 40



Refer to page 45 for model selection.



* See the table below.

LECY □ Series ▶ p. 203

How to Order

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

Series compatible with secondary batteries

1 Accuracy

Nil	Basic type
H	High-precision type

2 Size

25
32
40

3 Motor mounting position

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

5 Lead [mm]

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

6 Stroke [mm]

50	50
to	to
1000	1000

7 Motor option

Nil	Without option
B	With lock

* For details, refer to the applicable stroke table below.

4 Motor type

Symbol	Type	Output [W]	Actuator size	Compatible driver	UL-compliant
S2 ^{*1}	AC servo motor	100	25	LECSA□-S1	—
S3	(Incremental encoder)	200	32	LECSA□-S3	—
S4		400	40	LECSA2-S4	—
S6 ^{*1}	AC servo motor	100	25	LECSB□-S5 LECSA□-S5 LECSS□-S5	—
S7	(Absolute encoder)	200	32	LECSB□-S7 LECSA□-S7 LECSS□-S7	—
S8		400	40	LECSB2-S8 LECSA2-S8 LECSS2-S8	—
T6 ^{*2, *3}	AC servo motor	100	25	LECSB2-T5 LECSA2-T5 LECSS2-T5	— — ● ^{*3}
T7 ^{*3}	(Absolute encoder)	200	32	LECSB2-T7 LECSA2-T7 LECSS2-T7	— — ● ^{*3}
T8 ^{*3}		400	40	LECSB2-T8 LECSA2-T8 LECSS2-T8	— — ● ^{*3}

*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 The only compatible drivers compliant with UL standards are the LECSA2-T5, LECSA2-T7, and LECSA2-T8.

8 Positioning pin hole

Nil	Housing B bottom ^{*1}	
K	Body bottom 2 locations	

*1 Refer to the body mounting example on page 205 for the mounting method.

10 Cable length^{*1} [m]

Nil	Without cable
2	2
5	5
A	10

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

12 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 289 if I/O cable is required. (Options are shown on page 289.)

9 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

11 Driver type

	Compatible driver	Power supply voltage [V]	Size			UL-compliant
			25	32	40	
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	●	●	●	—
	LECSB2-T□	200 to 240	●	●	●	—
C1	LECSA1-S□	100 to 120	●	●	—	—
C2	LECSA2-S□	200 to 230	●	●	●	—
	LECSA2-T□	200 to 230	●	●	●	—
S1	LECSS1-S□	100 to 120	●	●	—	—
S2	LECSS2-S□	200 to 230	●	●	●	—
	LECSS2-T□	200 to 240	●	●	●	●

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

* The 25A- series specifications and dimensions are the same as those of the standard model.

Applicable Stroke Table

Model	Stroke [mm]																Manufacturable stroke range [mm]					
	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800		850	900	950	1000	
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	SSCNET III type	Pulse input type	CC-Link direct input type	SSCNET III/H type
Series	LECSA	LECSB	LECSA	LECSA	LECSB-T	LECSA-T	LECSA-T
Number of point tables	Up to 7	—	Up to 255 (2 stations occupied)	—	Up to 255	Up to 255 (2 stations occupied)	—
Pulse input	○	○	—	—	○	—	—
Applicable network	—	—	CC-Link	SSCNET III	—	CC-Link	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	Absolute 18-bit encoder	Absolute 22-bit encoder
Communication function	USB communication	USB communication, RS422 communication	USB communication, RS422 communication	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)	200 to 230 VAC (50/60 Hz)	200 to 240 VAC (50/60 Hz)
Reference page	Click here						

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

Model Selection
 LEFS
 LEFB
 LEFS
 LEFB
 11-LEFS
 11-LEFG
 Environment
 25A-LEFS
 LECSA
 LECSB
 LECSG
 LECP1
 LECPA
 LECPM/J
 JXC
 LECS
 LECY
 Specific Product Precautions

Electric Actuator/Slider Type Ball Screw Drive

Secondary Battery Compatible

25A-LEFS Series LEFS25, 32, 40



Refer to page 53 for model selection.

LECY □ Series ▶ p. 202

How to Order

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

Series compatible with secondary batteries

1 Accuracy

Nil	Basic type
H	High-precision type

2 Size

25
32
40

3 Motor mounting position

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

5 Lead [mm]

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

6 Stroke [mm]

50	50
to	to
1000	1000

* For details, refer to the applicable stroke table below.

7 Motor option

Nil	Without option
B	With lock

4 Motor type

Symbol	Type	Output [W]	Size	Compatible driver
V6*1	AC servo motor	100	25	LECYM2-V5/LECYU2-V5
V7	(Absolute encoder)	200	32	LECYM2-V7/LECYU2-V7
V8	(Absolute encoder)	400	40	LECYM2-V8/LECYU2-V8

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

12 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 302 if I/O cable is required. (Options are shown on page 302.)

8 Positioning pin hole

Nil	Housing B bottom*1	
K	Body bottom 2 locations	

*1 Refer to the body mounting example on page 205 for the mounting method.

10 Cable length*1 [m]

Nil	Without cable
3	3
5	5
A	10
C	20

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

9 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

11 Driver type

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

Applicable Stroke Table

Model	Stroke [mm]																Manufacturable stroke range [mm]				
	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800		850	900	950	1000
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.

* The 25A- series specifications and dimensions are the same as those of the standard model.

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	295	

* 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 the Web Catalog for model selection.

LECY □ Series ▶ Page 196

How to Order

25A-LEJS **H** **40** **S2** **A** - **500** □ - □ - □ - □

Series compatible with secondary batteries

1 Accuracy

Nil	Basic type
H	High-precision type

2 Size

40
63

5 Stroke [mm]*4

200
to
1500

*4 Refer to the applicable stroke table for details.

6 Motor option

Nil	Without option
B	With lock

3 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 LECS□-S5 LECSS□-S5	—
S7	AC servo motor (Absolute encoder)	200	63	LECSB□-S7 LECS□-S7 LECSS□-S7	—
T6*2, *3	AC servo motor (Absolute encoder)	100	40	LECSB2-T5	—
				LECS□-T5	—
				LECSS2-T5	●*3
T7*3	AC servo motor (Absolute encoder)	200	63	LECSB2-T7	—
				LECS□-T7	—
				LECSS2-T7	●*3

*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 The only compatible drivers compliant with UL standards are the LECS□-T5 and LECS□-T7.

7 Cable type*6, *7, *8

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

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

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

8 Cable length [m]*6, *9

Nil	Without cable
2	2
5	5
A	10

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

Applicable Stroke Table*5

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

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

Compatible Driver

* The 25A-series specifications and dimensions are the same as those of the standard model. [Click here for details.](#)

Driver type	Pulse input type/ Positioning type	Pulse input type	CC-Link direct input type	SSCNET III type	Pulse Input Type	CC-Link Direct Input Type	SSCNET III/H type
Series	LECSA	LECSB	LECS□	LECS□	LECSB-T	LECS□-T	LECS□-T
Number of point tables	Up to 7	—	Up to 255	—	Up to 255	Up to 255 (2 stations occupied)	—
Pulse input	○	○	—	—	○	—	—
Applicable network	—	—	CC-Link	SSCNET III	—	CC-Link	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	Absolute 18-bit encoder	Absolute 22-bit encoder
Communication function	USB communication	USB communication, RS422 communication	USB communication, RS422 communication	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) 200 to 230 VAC (50/60 Hz) 200 to 240 VAC (50/60 Hz)		

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

For auto switches, refer to page 211.

Electric Actuator/High Rigidity Slider Type Ball Screw Drive

Secondary Battery Compatible

25A-LEJS Series LEJS40, 63



Refer to the Web Catalog for model selection.

LECS □ Series ▶ Page 195

How to Order

25A-LEJS H 40 V6 A - 500 □ □ □ □

Series compatible with secondary batteries

1 Accuracy

Nil	Basic type
H	High-precision type

2 Size

40
63

3 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.

4 Lead [mm]

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

5 Stroke [mm]*3

200
to
1500

*3 Refer to the applicable stroke table for details.

6 Motor option

Nil	Without option
B	With lock

7 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".

8 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.

9 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 a driver type is selected, a cable is included. Select the cable type and cable length.

Example)

S2S2: Standard cable (2 m) + Driver (LECSS2)

S2 : Standard cable (2 m)

Nil : Without cable and driver

10 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 the Web Catalog if I/O cable is required.

Applicable Stroke Table*4

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 page 211.

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 25A- series specifications and dimensions are the same as those of the standard model.

Compatible Driver

[Click here for details.](#)

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)	

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

Directional Control Valves
Air Cylinders
Related Products
Rotary Actuators
Air Grippers
Vacuum Equipment
Air Preparation Equipment
Clean Air Filters
Modular P.R.L. Pressure Control Equipment
Fittings/Flow Control Equipment
Detection Switches
Fluid Control Equipment
Electric Actuators
Auto Switches

Electric Actuator/ Rod Type

Secondary Battery Compatible

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

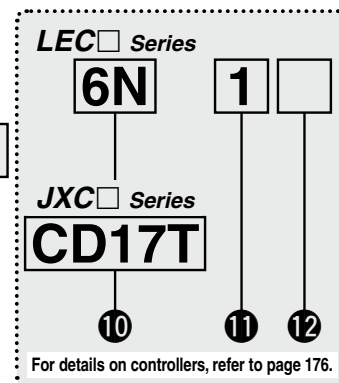
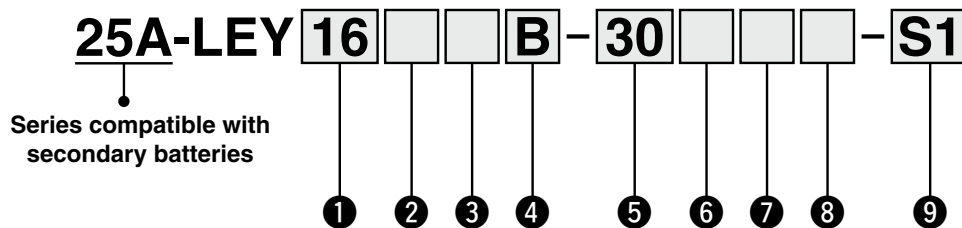


Dust-tight/Water-jet-proof ▶ p. 151

How to Order



Motor mounting position: Top/Parallel Motor mounting position: In-line



① Size

16
25
32
40

② Motor mounting position

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

③ Motor type

Symbol	Type	Applicable size			Compatible controller/driver
		LEY16	LEY25	LEY32/40	
Nil	Step motor (Servo/24 VDC)	●	●	●	LECP6 JXCE1 LECP1 JXC91 LECPA JXCP1 LECPMJ JXCD1 JXCL1
A	Servo motor (24 VDC)	●	●	—	LECA6

④ Lead [mm]

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

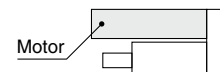
⑤ Stroke [mm]

30	30
to	to
500	500

* For details, refer to the applicable stroke table below.

⑥ Motor option*2

Nil	Without option
C	With motor cover
W	With lock/motor cover



⑦ Rod end thread

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

⑧ Mounting*5

Symbol	Type	Motor mounting position	
		Top/Parallel	In-line
Nil	Ends tapped/Body bottom tapped*6	●	●
L	Foot	●	—
F	Rod flange*6	●*8	●
G	Head flange*6	●*9	—
D	Double clevis*7	●	—

⑨ Actuator cable type/length*11

Standard cable [m]		Robotic cable [m]			
Symbol	Length	Symbol	Length	Symbol	Length
Nil	None	R1	1.5	RA	10*10
S1	1.5*12	R3	3	RB	15*10
S3	3*12	R5	5	RC	20*10
S5	5*12	R8	8*10		

Mounting Bracket Part Nos. for the 25A- Series*4

Applicable size	Foot*3	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)

Solid state auto switches should be ordered separately. For details on 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

Applicable Stroke Table*1

Model	Stroke [mm]	30	50	100	150	200	250	300	350	400	450	500	Manufacturable stroke range
		●	●	●	●	●	●	●	●	●	●	●	
25A-LEY16		●	●	●	●	●	●	●	—	—	—	—	10 to 300
25A-LEY25		●	●	●	●	●	●	●	●	●	—	—	15 to 400
25A-LEY32/40		●	●	●	●	●	●	●	●	●	●	●	20 to 500

●: Standard

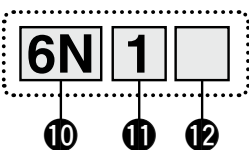
Electric Actuator/Rod Type **25A-LEY Series**

Step Motor (Servo/24 VDC)

Servo Motor (24 VDC)

Secondary Battery Compatible

LEC Series (For details, refer to page 177.)



10 Controller/Driver type*12

Nil	Without controller/driver	
6N	LECP6/LECA6	NPN
6P	(Step data input type)	PNP
1N	LECP1 *13	NPN
1P	(Programless type)	PNP
MJ	LECPMJ *13 *14 (CC-Link direct input type)	—
AN	LECPA *13 *15	NPN
AP	(Pulse input type)	PNP

11 I/O cable length*16, Communication plug

Nil	Without cable (Without communication plug connector)*18
1	1.5 m
3	3 m*17
5	5 m*17
S	Straight type communication plug connector*18
T	T-branch type communication plug connector*18



12 Controller/Driver mounting

Nil	Screw mounting
D	DIN rail*19

JXC Series (For details, refer to page 177.)

10 Controller

Nil	Without controller
C□1□□	With controller



Communication protocol

E	EtherCAT®
9	EtherNet/IP™
P	PROFINET
D	DeviceNet™
L	IO-Link

Mounting

7	Screw mounting
8*19	DIN rail

Communication plug connector for DeviceNet™*20

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

- *1 Please consult with SMC for non-standard strokes as they are produced as special orders.
- *2 When "With lock" or "With lock/motor cover" is selected for the top mounting and right/left side parallel types, the motor body will stick out from the end of the body for size 16/40 with strokes of 30 mm or less. Check for interference with workpieces before selecting a model.
- *3 When ordering foot brackets, order 2 pieces per actuator.
- *4 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
- *5 The mounting bracket is shipped together with the product but does not come assembled.
- *6 For the horizontal cantilever mounting of the rod flange, head flange, or ends tapped types, use the actuator within the following stroke range.
· LEY25: 200 mm or less · LEY32/40: 100 mm or less
- *7 For the mounting of the double clevis type, use the actuator within the following stroke range.
· LEY16: 100 mm or less · LEY25: 200 mm or less · LEY32/40: 200 mm or less
- *8 The rod flange type is not available for the LEY16/40 with a 30 mm stroke and motor option "With lock," "With lock/motor cover."

- *9 The head flange type is not available for the LEY32/40.
- *10 Produced upon receipt of order (Robotic cable only)
- *11 The standard cable should only be used on fixed parts. For use on moving parts, select the robotic cable.
- *12 For details on controllers/drivers and compatible motors, refer to the compatible controller/driver on the next page.
- *13 Only available for the motor type "Step motor"
- *14 Not compliant with CE
- *15 When pulse signals are open collector, order the current limiting resistor (LEC-PA-R-□) on page 218 separately.
- *16 When "Without controller/driver" is selected for controller/driver types, I/O cable cannot be selected. Refer to page 197 (For LECP6/LECA6), page 211 (For LECP1), or page 218 (For LECPA) if I/O cable is required.
- *17 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
- *18 For the LECPMJ, only "Nil," "S," and "T" are selectable since I/O cable is not included.
- *19 The DIN rail is not included. Order it separately.
- *20 Select "Nil" for anything other than DeviceNet™.

⚠ Caution

[CE-compliant products]

- ① EMC compliance was tested by combining the electric actuator LEY series and the controller LEC/JXC series.
The EMC depends on the configuration of the customer's control panel and the relationship with other electrical equipment and wiring. Therefore, compliance with 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 compliance with 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 197 for the noise filter set. Refer to the LECA series Operation Manual for installation.
- ③ CC-Link direct input type (LECPMJ) is not CE-compliant.

[UL-compliant products (For the LEC series)]

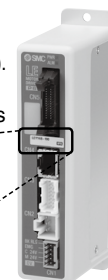
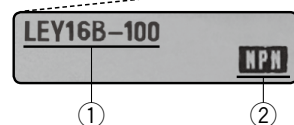
When compliance with UL is required, the electric actuator and controller/driver should be used with a UL1310 Class 2 power supply.

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

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

<Check the following before use.>

- ① Check the actuator label for the model number (after "25A-"). This number should match that of the controller/driver.
- ② Check that the Parallel I/O configuration matches (NPN or PNP).



* Refer to the Operation Manual for using the products. Please download it via our website, <https://www.smcworld.com>

25A-LEY Series

Step Motor (Servo/24 VDC)

Servo Motor (24 VDC)

Secondary Battery Compatible

Compatible Controller/Driver

LEC□ Series

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)		
Max. number of step data	64 points		14 points		—
Power supply voltage	24 VDC				
Reference page	189	189	222	205	212

JXC□ Series

Type					
Series	JXCE1	JXC91	JXCP1	JXCD1	JXCL1
Features	EtherCAT® direct input	EtherNet/IP™ direct input	PROFINET direct input	DeviceNet™ direct input	IO-Link direct input
Compatible motor	Step motor (Servo/24 VDC)				
Max. number of step data	64 points				
Power supply voltage	24 VDC				
Reference page	230				

Specific Product
Precautions

AC Servo Motor
LECY LECS

JXC

LECPMJ

LECPA

LECP1

LEC-G

LECA6
LECP6

Environment
25A-LEY LEY-X5

AC Servo Motor
LEYG

LEY

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

LEY

Model
Selection

Electric Actuator/ Rod Type

Secondary Battery Compatible



25A-LEY Series LEY25, 32

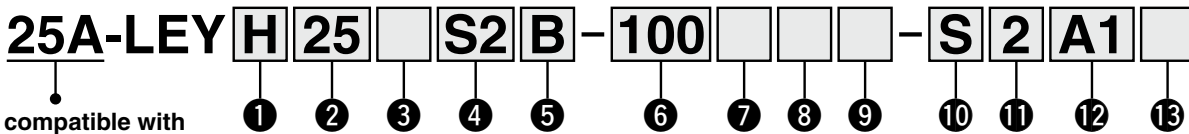
Size 25, 32



LECY □ Series ▶ p. 181

Refer to page 43 for model selection.

How to Order



Series compatible with secondary batteries

1 Accuracy

Nil	Basic type
H	High-precision type

2 Size

25
32

3 Motor mounting position

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

5 Lead [mm]

Symbol	LEY25	LEY32*1
A	12	16 (20)
B	6	8 (10)
C	3	4 (5)

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

4 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		200	32	LECSA□-S3	—
S6*1	AC servo motor (Absolute encoder)	100	25	LECSB□-S5 LECS□-S5 LECSS□-S5	—
S7		200	32	LECSB□-S7 LECS□-S7 LECSS□-S7	—
T6*2, *4	AC servo motor (Absolute encoder)	100	25	LECSB2-T5 LECS□2-T5 LECSS2-T5	— — ●*4
T7*4		200	32	LECSB2-T7 LECS□2-T7 LECSS2-T7	— — ●*4

*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 [Click here](#) for details on the driver.

*4 The only compatible drivers compliant with UL standards are the LECS2-T5 and LECS2-T7.

6 Stroke [mm]

30	30
to	to
500	500

* For details, refer to the applicable stroke table below.

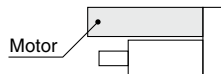
8 Rod end thread

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

7 Motor option

Nil	Without option
B	With lock*1

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



9 Mounting*1

Symbol	Type	Motor mounting position	
		Top/Parallel	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 The mounting bracket is shipped together with the product but does not come assembled.

*2 For the horizontal cantilever mounting of the rod flange, head flange, or ends tapped types, use the actuator within the following stroke range.
· 25A-LEY25: 200 mm or less
· 25A-LEY32: 100 mm or less

*3 For the mounting of the double clevis type, use the actuator within the following stroke range.
· 25A-LEY25: 200 mm or less
· 25A-LEY32: 200 mm or less

*4 The rod flange type is not available for the 25A-LEY25 with a 30 mm stroke and motor option "With lock."

*5 The head flange type is not available for the 25A-LEY32.

Mounting Bracket Part Nos. for the 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.

* 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

Model	Stroke [mm]	●: Standard										Manufacturable stroke range [mm]	
		30	50	100	150	200	250	300	350	400	450		500
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 on auto switches, refer to the Web Catalog.

Applicable auto switches

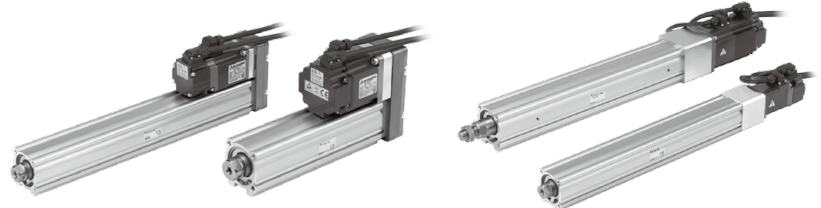
D-M9N(V)-900, D-M9P(V)-900, D-M9B(V)-900
D-M9NW(V)-900, D-M9PW(V)-900, D-M9BW(V)-900

Electric Actuator/Rod Type **25A-LEY Series**

AC Servo Motor

Size **25, 32**

Secondary Battery Compatible



Motor mounting position:
Top/Parallel

Motor mounting position:
In-line

10 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
· Top/Parallel: (A) Axis side
· In-line: (B) Counter axis side

11 Cable length*1 [m]

Nil	Without cable
2	2
5	5
A	10

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

12 Driver type*1

	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	—
	LECSB2-S□	200 to 230	—
B2	LECSB2-T□	200 to 240	—
	LECSB2-S□	200 to 230	—
C1	LECSC1-S□	100 to 120	—
C2	LECSC2-S□	200 to 230	—
	LECSC2-T□		—
S1	LECSS1-S□	100 to 120	—
S2	LECSS2-S□	200 to 230	—
	LECSS2-T□		200 to 240

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

Example)

S2S2: Standard cable (2 m) + Driver (LECSS2)

S2 : Standard cable (2 m)

Nil : Without cable and driver

* The 25A- series specifications and dimensions are the same as those of the standard model.

13 I/O cable length [m]*1

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

*1 When "Without driver" is selected for driver type, only "Nil: Without cable" can be selected. Refer to page 271 if I/O cable is required.

Compatible Driver

Driver type	Pulse input type/ Positioning type	Pulse input type	CC-Link direct input type	SSCNET III type	Pulse input type	CC-Link direct input type	SSCNET III/H type
Series	LECSA	LECSB	LECSC	LECSS	LECSB-T	LECSC-T	LECSS-T
Number of point tables	Up to 7	—	Up to 255 (2 stations occupied)	—	Up to 255	Up to 255 (2 stations occupied)	—
Pulse input	○	○	—	—	○	—	—
Applicable network	—	—	CC-Link	SSCNET III	—	CC-Link	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	Absolute 18-bit encoder	Absolute 22-bit encoder
Communication function	USB communication	USB communication, RS422 communication	USB communication, RS422 communication	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)	200 to 230 VAC (50/60 Hz)	200 to 240 VAC (50/60 Hz)
Reference page	Click here						

* 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



RoHS

LECS □ Series ▶ p. 179

Refer to page 50 for model selection.

How to Order

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

Series compatible with secondary batteries

1 Accuracy

Nil	Basic type
H	High-precision type

2 Size

25
32

3 Motor mounting position

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

4 Motor type

Symbol	Type	Output [W]	Size	Compatible driver
V6*1	AC servo motor (Absolute encoder)	100	25	LECYM2-V5 LECYU2-V5
V7		200	32	LECYM2-V7 LECYU2-V7

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

5 Lead [mm]

Symbol	25A-LEY25	25A-LEY32*1
A	12	16 (20)
B	6	8 (10)
C	3	4 (5)

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

6 Stroke [mm]

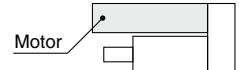
30	30
to	to
500	500

* For details, refer to the applicable stroke table below.

7 Motor option

Nil	Without option
B	With lock*1

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



8 Rod end thread

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

9 Mounting*1

Symbol	Type	Motor mounting position	
		Top/Parallel	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 The mounting bracket is shipped together with the product but does not come assembled.

*2 For the horizontal cantilever mounting of the rod flange, head flange, or ends tapped types, use the actuator within the following stroke range.

· LEY25: 200 mm or less · LEY32: 100 mm or less

*3 For the mounting of the double clevis type, use the actuator within the following stroke range.

· LEY25: 200 mm or less · LEY32: 200 mm or less

*4 The rod flange type is not available for the LEY25 with a 30 mm stroke and motor option "With lock."

*5 The head flange type is not available for the LEY32.

Mounting Bracket Part Nos. for the 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.

* 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

Solid state auto switches should be ordered separately. For details on 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

Applicable Stroke Table

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

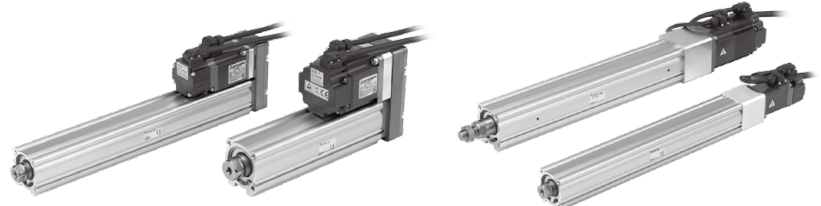
* Please consult with SMC for non-standard strokes as they are produced as special orders.

Electric Actuator/Rod Type **25A-LEY Series**

AC Servo Motor

Size **25, 32**

Secondary Battery Compatible



Motor mounting position:
Top/Parallel

Motor mounting position:
In-line

10 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
· Top/Parallel: (A) Axis side
· In-line: (B) Counter axis side

11 Cable length [m]*1

Nil	Without cable
3	3
5	5
A	10
C	20

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



13 I/O cable length [m]*1

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

*1 When "Without driver" is selected for driver type, only "Nil: Without cable" can be selected. Refer to page 284 if I/O cable is required.

* The 25A- series specifications and dimensions are the same as those of the standard model.

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	277	

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