# Environment Secondary Battery Compatible



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



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

A 538

#### Electric Actuator/Slider Type Ball Screw Drive 25A-LEFS Series Step Motor (Servo/24 VDC) Servo Motor (24 VDC) Secondary Battery Compatible

Motor mounting position:

In-line

# 8 Positioning pin hole

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

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

#### Controller/Driver type\*1

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

# 9 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.

#### 12 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
Т	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.

#### Actuator cable length [m]

Nil	Without cable
1	1.5
3	3
5	5
8	8*
Α	10*
в	15*
С	20*

Motor mounting position: Right side parallel

\* Produced upon receipt of order (Robotic cable only)

#### Controller/Driver mounting

Nil	Screw mounting									
D	DIN rail mou	unting*								

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

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

ompatible Con	troller/Driver	

Compatible Con	troller/Driver				
Туре	Step data input type	Step data input type	CC-Link direct input type	Programless type	Pulse input type
Series	LECP6	LECA6	LECPMJ	LECP1	LECPA
Features	Value (Step Standard	o data) input controller	CC-Link direct input	Capable of setting up operation (step data) without using a PC or teaching box	Operation by pulse signal
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.

![](_page_2_Picture_29.jpeg)

![](_page_3_Picture_0.jpeg)

verify conformity to the EMC directive for the machinery and equipment as a whole.

App	lica	able S	Strok	e Tab	le																		<ul> <li>Standard</li> </ul>
	/	Stroke	50	100	150	200	250	200	250	400	450	500	550	600	650	700	750	000	050	000	050	1000	Manufacturable
Mode	el 🗋		50	100	150	200	250	300	350	400	450	500	550	000	050	100	750	000	050	900	900	1000	stroke range [mm]
LE	EFS	616	۲	۲		۲	۲		۲	٠		۲	—	—	—	—	—	—	—	—	—	-	50 to 500
LE	EFS	625	٠	٠	•	•	•	•	•	•	•	•	•	•	—	-	-	—	-	-	—	-	50 to 600
LE	EFS	32	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	-	-	_	-	50 to 800
LE	EFS	640	—	—					•			٠		•	•			•			٠		150 to 1000

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

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

#### Electric Actuator/Slider Type Ball Screw Drive 25A-LEFS Series Step Motor (Servo/24 VDC) Servo Motor (24 VDC) Secondary Battery Compatible

![](_page_4_Figure_1.jpeg)

#### **Compatible Controller**

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

Туре	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 (Servo/2	motor 24 VDC)	
Maximum number of step data		64 p	oints	
Power supply voltage		24 \	VDC	
Reference page		Page	603-5	

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

*∕*SMC

![](_page_5_Picture_0.jpeg)

B 540

![](_page_6_Figure_0.jpeg)

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

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	AC Servo Motor LECS Series															
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 How to Order Specifications and dimensions for the 25A-series are the same as standard products.																
										_						
25A-	-LE	JS	SH	4	0 5	<b>S</b> 2	Α	-[	500	)	7-					
			- <u>F</u>			T	T		<u> </u>							
Series compatib secondary batt	le with eries		Ó	2		B	4		6	6		0 8	90	)		
	3	Mo	tor typ	e								<b>4</b> Le	ad [mm]	1		
Nil Basic type	Svr	mhol	<u></u>	Type		Output	Actua	tor	Compa	tible	UL-	Symbo	25A-LEJ	S40 25A	-LEJS63	
H High precision type			AC se		otor	[W]	size		drive	ər	compliant	H	24		30	
2 Size	S	<b>2</b> *1	(Increme	ntal en	icoder)	100	40	l	LECSA	⊒-S1	-	B	8		10	
40	S	3	AC se (Increme	ervo mo	otor coder)	200	63	1	LECSA	<b>□-</b> S3	-	<b>0</b> n	river tvo	<b>n</b> *5		
		<b>c</b> *1	AC se	ervo mo	otor	400	40	1	ECSB	]-S5			Compatib	ole driver	Power supply voltage [\	[] UL-compliant
Stroke [mm]*3	, s	6*'	(Absolu	ute enc	oder)	100	40		LECSC	S5 ]-S5	_	Nil	Without	t driver		_
200 to	s	7	AC se	ervo mo	otor	200	63		ECSE	]-S7 ]-S7	_	A1 A2	LECSA	41-S□ 42-S□	200 to 230	
1500	-	•*2	(Absolu	ute enc	oder)	100	40	i	ECSS	]-S7		B1	LECSE	31-S□	100 to 120	—
*3 Refer to the		6* <u>~</u> 7	AC se (Absolu	ervo mo	otor oder)	200	40		ECSS	2-15 2-T7	•	B2	LECSE	32-S	200 to 230	-
table for details.	*1	For m	otor type	S2 an	id S6. t	he con	compatible driver part number					C2	LECSC	C2-S□	200 to 230	
•		suffixe	es are S	1 and S	65 resp	ectivel	y.					S1	LECSS	S1-S□	100 to 120	
Motor option	*2	For m	otor type	e T6, th	e comp	batible	driver	part r	number	suffix is	s T5.	S2	LECSS	S2-S	200 to 230	-
Nil Without opti	on											*E \//b/	LECS	52-1	200 to 240	
								_				∿o vvne inclu	ided. Selec	t cable type	ype and cable le	ngth.
Cable type*5,	*6, *7							8) C	able le	ength	[ <b>m]</b> *5, *8	Exa	mple)			-
Nil	V	Vithou	ut cable				_ [	Nil	W	ithout o	cable	S2S	2: Standar Driver (I	d cable ( FCSS2	(2 m) + )	
S	Si	tanda	rd cable	ooblo)			-	2	_	2		S2	: Standar	d cable	/ (2 m)	
*6 The motor and end	roder cal			ed (Th	ne lock	cable	H	A		10		Nil	: Without	cable ar	nd driver	
is included when th	e motor	with lo	ock optio	n is sel	ected.)	cabic	*	8 The	e length	n of the	e motor,	D I/O	) cable le	enath	[ <b>m]</b> *9	
*7 Standard cable ent	ry is "(A)	Axis	side".					enc	oder a	nd locł	k cables	Nil		W	ithout cable	
								are	the sar	ne.		н	Wit	thout cal	ble (Connector	only)
Applicable Strok	e Table	B*4			<u> </u>				•: :	Standa	rd	1			1.5	
Model Model 200	300	400	500	600	700	800	900	100	00 120	0 150	0	×9 whe onlv	"Nil: Without	ut cable	is selected for of " can be selected"	unver type, ed.
25A-LEJS40	•		•	٠	٠	٠	•		•			Refe	er to page 6	624 if I/O	cable is require	ed.
25A-LEJS63 -		۲										(Op	tions are sh	nown on	page 624.)	
*4 Please consult with	n SMC fo	r non	-standard	d stroke	es as th	ey are	produc	ced a	s specia	al order	s.		•••••••••			244.444
Compatible Dri	ver											For au	to switch	es, refe	r to pages 14	2 to 144.
Pulse input type/ Positioning type         Pulse input type/ Positioning type									CC-Lin input ty	k direc /pe	t	SSCNE	TⅢ type		type	

 Reference page
 Page 613

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

LECSA

Up to 7

Incremental

17-bit encoder

USB communication

LECSB

Absolute

18-bit encoder

B 541

Series

Number of point tables

Control encoder

Communication function

Power supply voltage [V]

Pulse input Applicable network

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

USB communication, RS422 communication USB communication, RS422 communication

100 to 120 VAC (50/60 Hz), 200 to 230 VAC (50/60 Hz)

LECSC

Up to 255

CC-Link

Absolute

18-bit encoder

LECSS

SSCNET

Absolute

18-bit encoder

USB communication

LECSS-T

SSCNET Ⅲ/H

Absolute

22-bit encoder

200 to 240 VAC (50/60 Hz)

Page 607

**Electric Actuator/High Rigidity Slider Type** Ball Screw Drive Secondary Battery Compatible 25A-LEJS Series LEJS40. 63 Refer to page 120 for model selection. LECS□ Series ▶ Page 541 Specifications and dimensions for the 25A-series are the same as standard products. How to Order 25A-LEJS H 40 V6 A 500 Series compatible with secondary batteries Accuracy 3 Motor type \*1 4 Lead [mm] 
 Nil
 Basic type

 H
 High precision type
 Symbol 25A-LEJS40 25A-LEJS63 Actuator Compatible Output Symbol Туре [Ŵ] size driver н 24 30 LECYM2-V5 20 AC servo motor A 16 V6 100 40 2 Size (Absolute encoder) LECYU2-V5 в 8 40 AC servo motor LECYM2-V7 V7 200 63 5 Stroke [mm]\*3 6 Motor option 63 (Absolute encoder) LECYU2-V7

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

Nil

3 5 Α

C

#### 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".

#### I/O cable length [m]\*9

Nil	Without cable	1
н	Without cable (Connector only)	1
1	1.5	]

\*9 When "Without driver" is selecte only "Nil: Without cable" can be set Refer to page 624 if I/O cable is required.

(Options are shown on page 624.)

Applicable S	troke	lable	*4							: St	andard
Model Stroke	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.

#### Compatible Driver

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

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

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#### 541-1 @

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

	S2	: 8
	Nil	: \
d for driver type,		
lected.		

Without cable

10

20

\*6 The length of the motor, encod-

er and lock cables are the same.

#### 200 \*3 Refer to the to

applicable stroke 1500 table for details.

/	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)

Standard cable (2 m)

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

Without cable and driver

D-M9N(V)-900, D-M9P(V)-900, D-M9B(V)-900

D-M9NW(V)-900, D-M9PW(V)-900, D-M9BW(V)-900

9 Driver type \*5

Applicable auto switches

# 10

Nil Without option With lock в

RoHS

![](_page_8_Picture_31.jpeg)

AC Servo Motor	
Electric A	atuator

![](_page_9_Picture_0.jpeg)

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

A 542
 A

# Electric Actuator/Rod Type 25A-LEY Series

Step Motor (Servo/24 VDC) Servo Motor (24 VDC) Secondary Battery Compatible

![](_page_10_Figure_2.jpeg)

### 8 Mounting\*1

Sumbol	Turne	Motor moun	ting position
Зуший	туре	Top/Parallel	In-line
Nil	Ends tapped/ Body bottom tapped	•	•
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.

#### Controller/Driver mounting

Compatible Controller/Driver

Nil	Screw mounting
D	DIN rail mounting*1

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

#### 9 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."

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

Nil	Without cable (Without communication plug connector)*3
1	1.5
3	3* <sup>2</sup>
5	5 <sup>*2</sup>

5

•	v
s	Straight type communication plug connector*3
Т	T-branch type communication plug connector*3

#### Controller/Driver type\*1

Nil	Without controller/driver				
6N	LECP6/LECA6	NPN			
6P	(Step data input type)	PNP			
1N	LECP1*2	NPN			
1P	(Programless type)	PNP			
MJ	LECPMJ*2*3 (CC-Link direct input type)	_			
AN	LECPA*2 *4	NPN			
AP	(Pulse input type)	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-D) on page 596 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 con					-
Туре	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		-	
Power supply voltage			24 VDC		
Reference page	Page 560	Page 560	Page 600	Page 576	Page 590
0					

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

**SMC** 

![](_page_11_Picture_0.jpeg)

30

to

500

Rod end female thread

Rod end male thread

(1 rod end nut is included.)

\* Refer to the applicable stroke table.

Rod end thread

_			
Symbol	LEY16	LEY25	LEY32/40
Α	10	12	16
в	5	6	8
C	2.5	3	4

#### 6 Motor option

С	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.

#### 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 <sup>®</sup>	RAYDENT <sup>®</sup>	Coating (Size 16: Electroless nickel plating)

to

500

Nil

М

\*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 •: Stand								Standard				
Stroke [mm] Model	30	50	100	150	200	250	300	350	400	450	500	Manufacturable stroke range [mm]
LEY16	٠	•	•	•	•	•	•	—	—	—	-	10 to 300
LEY25	•	•	•	•	•	•	•	•	•	_	-	15 to 400
LEY32/40	٠	•	٠	٠	•	•	٠	•	٠	٠	٠	20 to 500

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

A 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.

#### 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** 

# Electric Actuator/Rod Type 25A-LEY Series

Step Motor (Servo/24 VDC) Servo Motor (24 VDC) Secondary Battery Compatible

![](_page_12_Figure_2.jpeg)

# 8 Mounting\*1

Sumbol	Turno	Motor mounting position			
Symbol	туре	Top/Parallel	In-line		
Nil	Ends tapped/ Body bottom tapped	•	•		
L	Foot	•	_		
F	Rod flange*2		۲		
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
  - · LETTO. 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.

#### 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.

![](_page_12_Figure_19.jpeg)

 for DeviceNet™

 Nil
 Without plug connector

 S
 Straight type

T T-branch type Select "Nil" for anything other than DeviceNet™.

**Compatible Controller** 

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

Туре	EtherCAT® direct input type	EtherNet/IP™ direct input type	PROFINET direct input type	DeviceNet <sup>TM</sup> direct input type			
Series	JXCE1	JXC91	JXCP1	JXCD1			
Fastures	EtherCAT®	EtherNet/IP™	PROFINET	DeviceNet™			
reatures	direct input	direct input	direct input	direct input			
Compatible motor	Step motor (Servo/24 VDC)						
Maximum number of step data		64 p	oints				
Power supply voltage		24	VDC				
Reference page		Page	603-5				

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

**⊘**SMC

AC Servo Motor LECS Series

# Electric Actuator/ Rod Type Secondary Battery Compatible

25A-LEY Series LEY25, 32 Size 25, 32

LECY Series ▶ Page 545-1

RoHS

How to Order

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

![](_page_13_Figure_7.jpeg)

Accuracy Nil Basic type H High precision type

2 Size 25 32

R

L D

Otor mounting position Nil Top mounting

> Right side parallel Left side parallel

> > In-line

LEY32\*

16 (20)

8 (10)

# 4 Motor type\*1

Symbol	Туре	Output [W]	Actuator size	Compatible drivers*3	UL- compliant
<b>S2</b> *1	AC servo motor (Incremental encoder)	100	25	LECSA□-S1	_
S3	AC servo motor (Incremental encoder)	200	32	LECSAD-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	100	25	LECSS2-T5	—
T7	(Absolute encoder)	200	32	LECSS2-T7	•

С 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])

LEY25

6

#### 6 Stroke [mm]

5 Lead [mm] Symbol

Δ

в

30	30
to	to
500	500

\* Refer to the applicable stroke table for details.

#### 8 Rod end thread

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

#### 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	<b>RAYDENT®</b>	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

<ul> <li>Applicable stroke tab</li> </ul>	ble											: Standard
Stroke	~~	50	100	450	000	050	000	050	400	450	- 00	Manufacturable
Model [mm]	30	50	100	150	200	250	300	300	400	450	500	stroke range (mm)
25A-LEY25	٠	٠	٠	•	٠	•	٠	٠	•	—	-	15 to 400
25A-LEY32	•	•	•	•		•		•			•	20 to 500
* Please consult with SMC for non-standard strokes as they are produced as special orders.												

® 544 @SMC

\*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.

#### Motor option

Nil	Without option
В	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.

![](_page_13_Figure_29.jpeg)

#### Mountina\*1

0	Turne	Motor mounting position			
Symbol	туре	Top/Parallel	In-line		
Nil	Ends tapped/ Body bottom tapped	•	•		
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-I EY25: 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: 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 25A-LEY32.

#### 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

Refer to page 232 for model selection.

# Electric Actuator/Rod Type 25A-LEY Series AC Servo Motor Size 25, 32 Secondary Battery Compatible

![](_page_14_Picture_2.jpeg)

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

# 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

### I/O cable length [m]\*

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

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

#### Cable length\* [m]

	<u> </u>
Nil	Without cable
2	2
5	5
Α	10

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

## Driver type\*

$\sim$	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	_			
60	LECSS2-S□	200 to 230	_			
52	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

#### Compatible Driver

Driver type	Pulse input type/ Positioning type	Pulse input type	CC-Link direct input type	SSCNET II type	CSSCNETTINH type
Series	LECSA	LECSB	LECSC	LECSS	LECSS-T
Number of point tables	Up to 7	—	Up to 255 (2 stations occupied)	—	—
Pulse input	0	0	_	—	—
Applicable network	—	—	CC-Link	SSCNET II	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 com	nunication
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 240 VAC (50/60 Hz)
Reference page	Page 613 Page 607				

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

![](_page_14_Picture_26.jpeg)

AC Servo Motor LECY Series

# Electric Actuator/ Rod Type Secondary Battery Compatible

**25A-LEY Series** LEY25, 32 Size 25, 32

LECY□ Series ▶ Page 544

E F

RoHS

How to Order

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

![](_page_15_Figure_7.jpeg)

secondary batteries

Accuracy

 Nil
 Basic type

 H
 High precision type

2 Size 25 32

Mote Nil

> L D

otor mounting position					
Top mounting					
Right side parallel					
- ingris and particular	1				

Left side parallel

In-line

# 4 Motor type

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

## **5** Lead [mm]

Symbol	25A-LEY25	25A-LEY32*
Α	12	16 (20)
В	6	8 (10)
С	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])

#### 6 Stroke [mm]

30	30
to	to
500	500

\* Refer to the applicable stroke table for details.

#### 8 Rod end thread

Applicable size

25

32

Surface

treatment

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

Mounting Bracket Part No. for 25A- Series

Foot\*1

25-LEY-L025

25-LEY-L032

**RAYDENT®** 

#### Motor option

Nil	Without option			
В	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.

Double clevis

25-LEY-D025

25-LEY-D032

Coating

(Size 16: Electroless nickel plating)

![](_page_15_Figure_26.jpeg)

#### 9 Mounting\*1

Sumbol	Turne	Motor mounting position			
Symbol	туре	Top/Parallel	In-line		
Nil	Ends tapped/ Body bottom tapped	•	•		
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.

\*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

Flange

25-LEY-F025

25-LEY-F032

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* Applicable stroke table												
Stroke	20	50	100	150	200	250	200	250	400	450	500	Manufacturable
Model	30	50	100	150	200	250	300	350	400	450	500	stroke range [mm]
25A-LEY25									۲	—	—	15 to 400
25A-LEY32	٠	•	•	•	٠	•	•	$\bullet$	٠	•	•	20 to 500
* Please consult with SMC for non-standard strokes as they are produced as special orders.												

Please consult with SMC for non-standard strokes as they are produced as special orders.
 § 545-1

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

Refer to page 232 for model selection.

# Electric Actuator/Rod Type 25A-LEY Series AC Servo Motor Size 25, 32 Secondary Battery Compatible

![](_page_16_Picture_2.jpeg)

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

# 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

## I/O cable length [m]\*

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

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

### Cable length [m]\*

-	
Nil	Without cable
3	3
5	5
Α	10
С	20

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

# 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.

#### **Compatible Driver**

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

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

**SMC** 

![](_page_17_Picture_0.jpeg)

# **25A-LE** Series

**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.