

ACTUATOR LA27

Features:

- 24 V DC permanent magnet motor
- Thrust up to 6000 N (in a push application)
- Thrust up to 4000 N in pull (in a pull application)
- Exchangeable cable
- Ambient temperature +10°C to +40°C
- Elegant and compact design with small installation dimensions
- Protection class: IP 54
- Colour: Dark grey (RAL 7016)
- Built-in end stop switches (not adjustable)
- Possible to mount control box CB6 on LA27 with a special mounting clip (is delivered with CB6)
- Scratch and wear resistant powder painted steel inner tube
- LA27 is approved according to EN 60601-1 / UL60601-1
- Brake ensures self-locking ability in either push or pull directions.
- Duty cycle: 2/18; 2 minutes continuous use followed by 18 minutes not in use

Options:

- Mechanical splines with the same built-in dimension (the actuator can push only)
- Back fixture position 0° or 90°
- Push or pull applications



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The LA27 actuator is a powerful actuator designed for applications such as furniture and home carebeds.

The LA27 actuator is developed for both push and pull applications and has a very robust construction because of the ultrasonic welded plastic housing.

The LA27 actuator is equipped with a plug for connection of exchangeable cable with minifit connector. This gives the possibility to order standard actuators and combine them with different cable lengths.

Because of the built-in signal switch and the special plug in the LA27 it is only compatible with control box CB6.

The LA27 actuator has a small standard programme where only a few standard lengths and built-in dimensions are available (See table next page).

Technical specifications

Order number												Max load [N]		Max amp. push/pull [A]		(1*) Typical amp. [A]	(1*) Typical speed [mm/s]		
Actuator type	Spindel type	Back fixture	Piston rod eye	Option position	Colour	Safety option	Brake	Stroke length	Motor type	IP Degree	Motor PCBA	Push(2*)(3*)	Pull(2*)(3*)	No load	Full load	Max load and 24V	No load	Full load	
2 7	X	S	0	0	Z	X	X	B B B	0	Z	0								
2 7	3	S	0	0	Z	0	1	B B B	0	Z	0	1500	1000						
2 7	3	S	0	0	Z	1	1	B B B	0	Z	0	-		2,1	3,5	2,7	13		10,8
2 7	3	S	0	0	Z	2	1	B B B	0	Z	0								
2 7	3	S	0	0	Z	3	1	B B B	0	Z	0								
2 7	3	S	0	0	Z	0	2	B B B	0	Z	0	1000	1500						
2 7	3	S	0	0	Z	1	2	B B B	0	Z	0								
2 7	3	S	0	0	Z	2	2	B B B	0	Z	0								
2 7	3	S	0	0	Z	3	2	B B B	0	Z	0								
2 7	4	S	0	0	Z	0	1	B B B	0	Z	0	6000	2000						
2 7	4	S	0	0	Z	1	1	B B B	0	Z	0								
2 7	4	S	0	0	Z	2	1	B B B	0	Z	0			2,1	5,0	4,6	6		3,6
2 7	4	S	0	0	Z	3	1	B B B	0	Z	0								
2 7	4	S	0	0	Z	0	2	B B B	0	Z	0	2000	4000						
2 7	4	S	0	0	Z	1	2	B B B	0	Z	0								
2 7	4	S	0	0	Z	2	2	B B B	0	Z	0								
2 7	4	S	0	0	Z	3	2	B B B	0	Z	0								
2 7	7	S	0	0	Z	0	1	B B B	0	Z	0	2500	1500						
2 7	7	S	0	0	Z	1	1	B B B	0	Z	0								
2 7	7	S	0	0	Z	2	1	B B B	0	Z	0			2,1	3,5	2,9	7		5,9
2 7	7	S	0	0	Z	3	1	B B B	0	Z	0								
2 7	7	S	0	0	Z	0	2	B B B	0	Z	0	1500	2500						
2 7	7	S	0	0	Z	1	2	B B B	0	Z	0								
2 7	7	S	0	0	Z	2	2	B B B	0	Z	0								
2 7	7	S	0	0	Z	3	2	B B B	0	Z	0								

Z = No influence on technical data.

X = Influence on technical data.

S = Standard

B = See table 2, page 4

1* Push with push brake or pull with pull brake

2* Motor must be short circuited to achieve the selflocking ability (as per max. load).

3* See table 1, page 2, re.reduced selflocking ability

Spindel type	Pitch	Max selflock [N]
3	9	1000
4	4	2000
7	6	1500

Table 1.

Reduced self-lock characteristics when the actuator is run in the oppositedirection to the brake direction.

Technical specifications

The following standard versions can be ordered:

Function on bed application	Order number	Back fixture type	Spindle Pitch (mm)	Safety option	Thrust max. push (N)	Self-lock max. push (N)	Typical speed at 0/full load (mm/s)	Stroke length (mm)	Install. dim. (mm)	Duty cycle (%)	Typical Amp. at full load
Hi / low	270020-00	01	4	S-nut	6000	6000	6/3.6	150	410	10	4.6
Hi / low	270021-00	01	4	S-nut	6000	6000	6/3.6	215	410	10	4.6
Back	277100A21150040	01	6	Spline	2500	2500	7/5.9	150	320	10	2.9
Back	270022-00	01	6	Spline	2500	2500	7/5.9	110	320	10	2.9
Leg	277100A21100040	01	6	Spline	2500	2500	7/5.9	100	270	10	2.9
Leg	270019-00	01	4	Spline	6000	6000	6/3.6	50	300	10	4.6
Bed end	273100A01300040	01	9	-	1500	1500	13/10.8	300	470	10	2.7
Bed end	273100A01405040	01	9	-	1500	1500	13/10.8	405	575	10	2.7
Bed End	273200A01405040	02	9	-	1500	1500	13/10.8	405	575	10	2.7

Above measurements are made in connection with CB6.

Cables for LA27 must be ordered separately; see article no. below. The length of the cable is specified by the numbers after the dash.

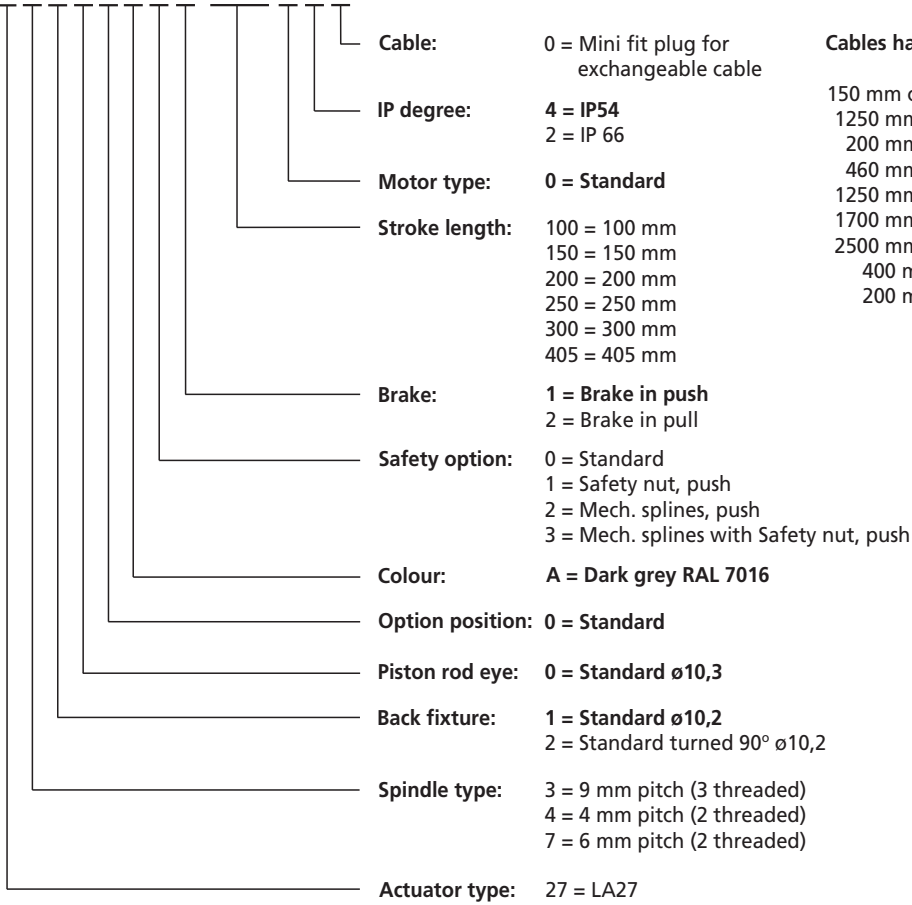
Cables:

0277011-200	0277011-2500
0277011-460	0277012-200
0277011-1250	0277012-400
0277011-1700	0277013-150-1250

LA27

Ordering example:

27 2 1 0 0 A 0 1 1 0 0 0 4 0



Cables have to be ordered seperately

	Article no.:
150 mm coiled and	
1250 mm straight	0277013-150-1250
200 mm straight	0277011-200
460 mm straight	0277011-460
1250 mm straight	0277011-1250
1700 mm straight	0277011-1700
2500 mm straight	0277011-2500
400 mm coiled	0277012-400
200 mm coiled	0277012-200



Not all combinations in the ordering example are possible. The LA27 is available in the standard versions shown on the previous page.

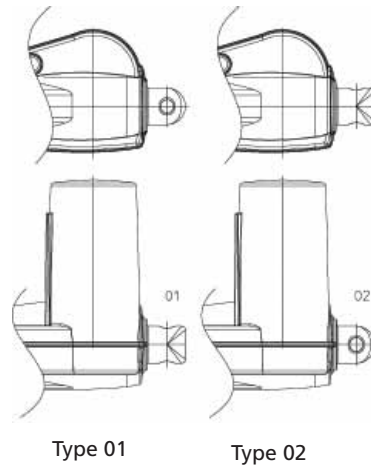
Installation dimensions:

S + 170 mm: All LA27's minimum stroke length is 50 mm.
 With 4 mm pitch the max. stroke length is 250 mm (max. thrust in push 6000 N)
 With 6 mm pitch the max. stroke length is 300 mm (max. thrust in push 2500 N)
 With 9 mm pitch the max. stroke length is 405 mm (max. thrust in push 1500 N)

		Spindel type			
3 = 9 mm pitch		4 = 4 mm pitch		7 = 6 mm pitch	
Max stroke [mm]	Max load push [N]	Max stroke [mm]	Max load push [N]	Max stroke [mm]	Max load push [N]
405	1500	250	6000	300	2500
		300	4000		

Table 2

Back fixtures:



The LA27 must have a minimum installation dimension of 320 mm if the CB6 is to be mounted on the actuator.



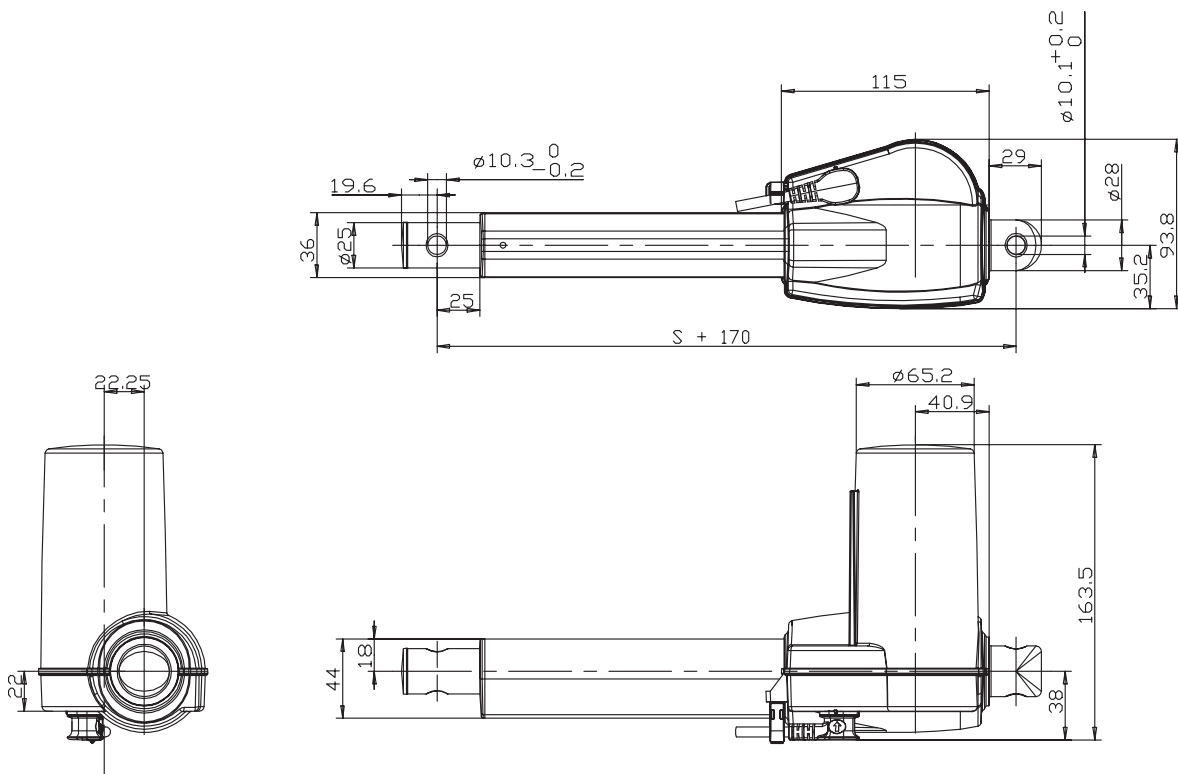
The cable for the LA27 is not a part of the actuator, therefore it must be ordered separately

Note:

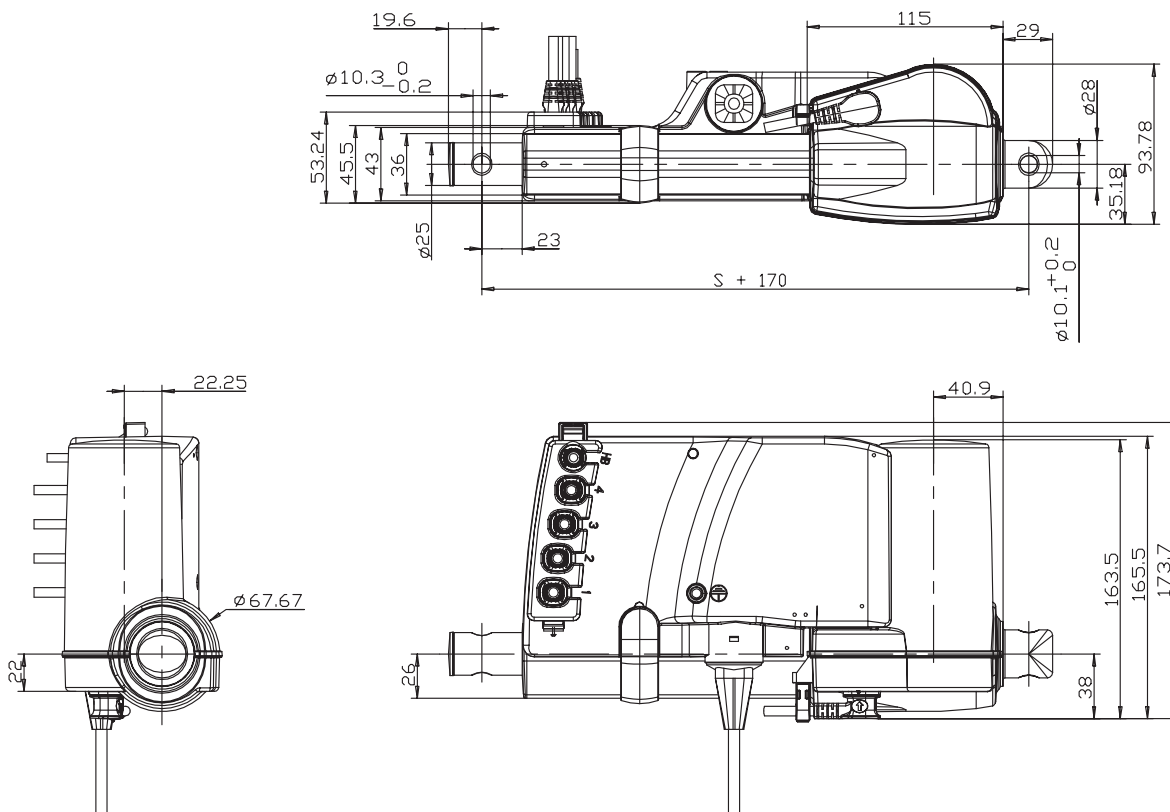
For the control box CB6 the current will be cut off when the total current on all channels reaches approx. 5.1 to 5.4 Amp.

This means that when two LA27 running simultaneously, are connected to a CB6 they will not be able to lift the max. load mentioned under technical specifications.

Dimensions LA27



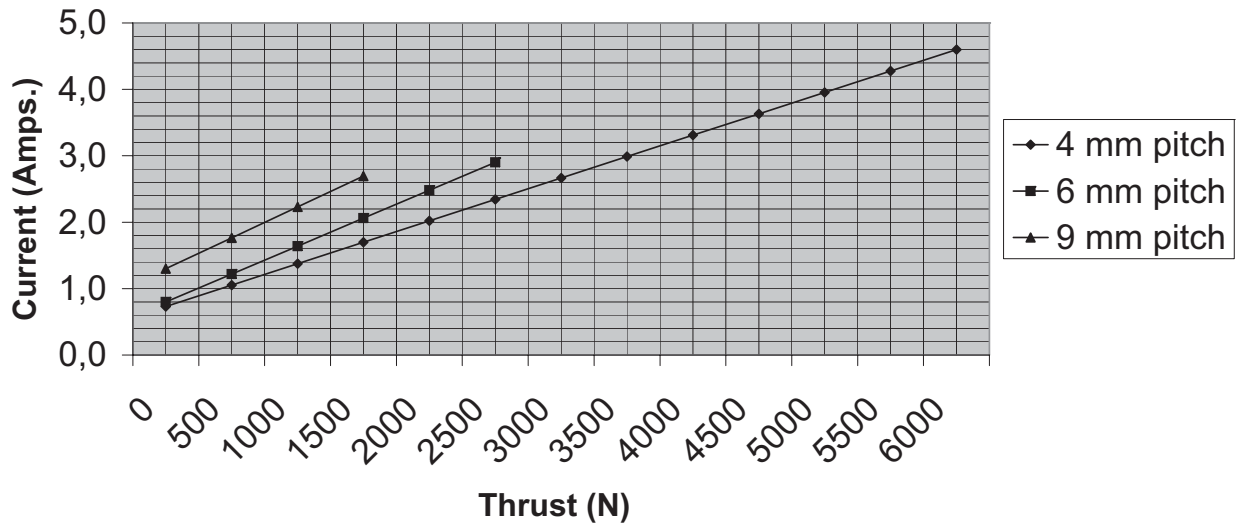
Dimensions LA27 with CB6:



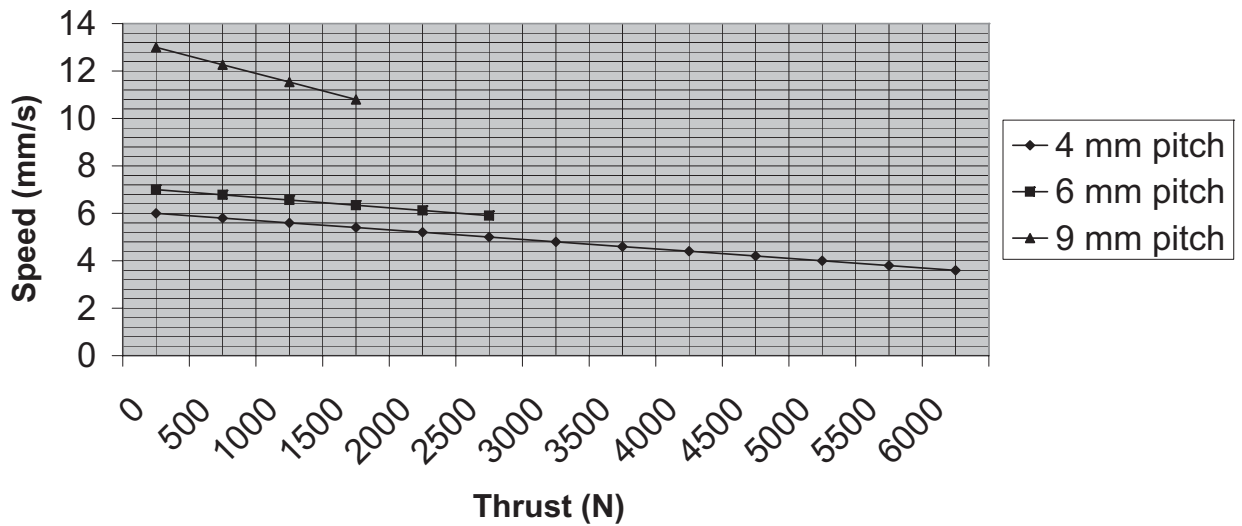
Curves

(data measured with LA27 in connection with control box CB6)

Current v's thrust (typical values) Push with push brake

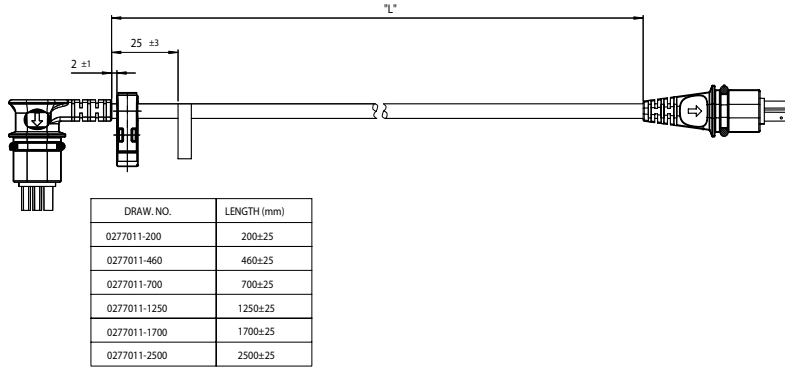


Speed v's thrust (typical values) Push with push brake

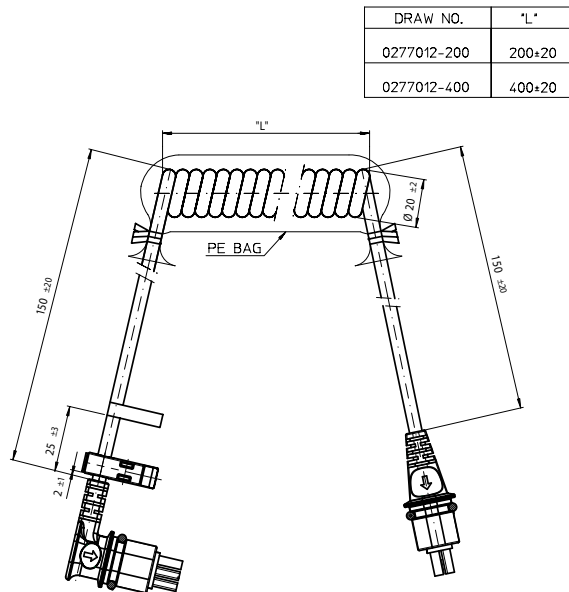


Cables:

Straight cables:



Coiled cables:



Specifications subject to change without prior notice.
 It is the responsibility of the product user to determine the suitability of LINAK A/S products for a specific application. LINAK will at point of delivery replace/repair defective products covered by the warranty if promptly returned to the factory. No liability is assumed beyond such replacement/repair.