



Actuator LA29

Data sheet

LA29

This particular LINAK® actuator is the ideal choice in medical equipment where power and speed are required, but where space is limited.

The LA29 has a very short installation dimension. However, the most special feature about this actuators is that the fixing points are independent of stroke length or position. In other words, the distance between the two fixing points is constantly small, no matter what the actuator is doing.

Another special feature here is the flexible back fixture. This helps the actuator adapt misalignments in the application, altogether making this actuator one of the most flexible in the LINAK product portfolio.

The LA29 is compatible with all LINAK control boxes for healthcare applications.

Properties:

- Max. thrust: 6,000 N
- Max. speed: 29.6 mm/s
- Compact design



Features and options:

- Load in push: 6,000 N
- Load in pull: 4,000 N
- Thrust: Up to 6,000 N
- Housing: High-strength plastic protecting motor and gears
- Colour:
 - Black plastic parts and natural anodized aluminium profile
- Protection class: IPX1
- Motor: 24 V DC permanent magnet motor
- Stroke length: 100 - 600 mm*
- Minimum built-in dimensions: 319 mm at 100 mm stroke
- Feedback options: Reed or Hall
- Noise level: 48dB(A); measuring method DS/EN ISO 3743-1, actuator not loaded.
- Safety nut: Yes
- Back fixture:
 - Flexible, metal back fixture enabling up to 4,000 N in pull
- Built-in electrical limit switch: Not adjustable
- Built-in endstop: Power switch
- Safety factor is: 2.5, up to 600 mm stroke
- Spindle pitch: 3, 4, 5, 6, 9, 12 mm
- Brake: Increasing the self-locking ability

Usage:

- Duty cycle: 10% or 2 minutes continuous use followed by 18 minutes not in use
- Usage temperature: +5 °C to +40 °C
- Storage temperature: -10 °C to 50 °C
- Compatibility: Compatible with LINAK control boxes. Please contact LINAK.
- Relative humidity: 20% to 80% - non-condensing
- Atmospheric pressure: 700 to 1060 hPa
- Height above sea level Max. 3000 meters
- A CE Declaration of Conformity has been issued

**Longer stroke lengths are possible as special article*

Technical specifications: (with an ambient temperature of 22° C)

Type	Spindle pitch (mm)	Thrust max. push (N)	Thrust max. pull (N)	* Selflock max. (N) (push)	Typical speed (mm/s) 0/ full load		Motor type	Typical amp. (24V) at full load
291	3	6000	4000	6000	6.3	3.5	Std.	4.0
291	3	6000	4000	6000	8.1	4.3	Fast	4.5
294 with brake	4#	6000	4000	6000	8.3	4.3	Std.	4.3
294 with brake	4#	6000	4000	6000	10.7	4.8	Fast	5.1
292 with brake	5#	4000	4000	4000	10.3	6.4	Std.	3.9
292 with brake	5#	4000	4000	4000	13.5	7.4	Fast	4
297 with brake	6#	2500	2500	2500	12.1	9.0	Std.	2.5
297 with brake	6#	2500	2500	2500	16.7	11.2	Fast	3.1
293 with brake	9#	1500	1500	1500	18.3	14.4	Std.	2.5
293 with brake	9#	1500	1500	1500	23.1	17.6	Fast	3.1
296 with brake	12#	1000	1000	1000	25.1	19.5	Std.	2.4
296 with brake	12#	1000	1000	1000	29.6	23.4	Fast	3.2

The above measurements with the standard motor are made together with the CB9AE control box. Measurements with the fast motor are made with a control box featuring EAS.

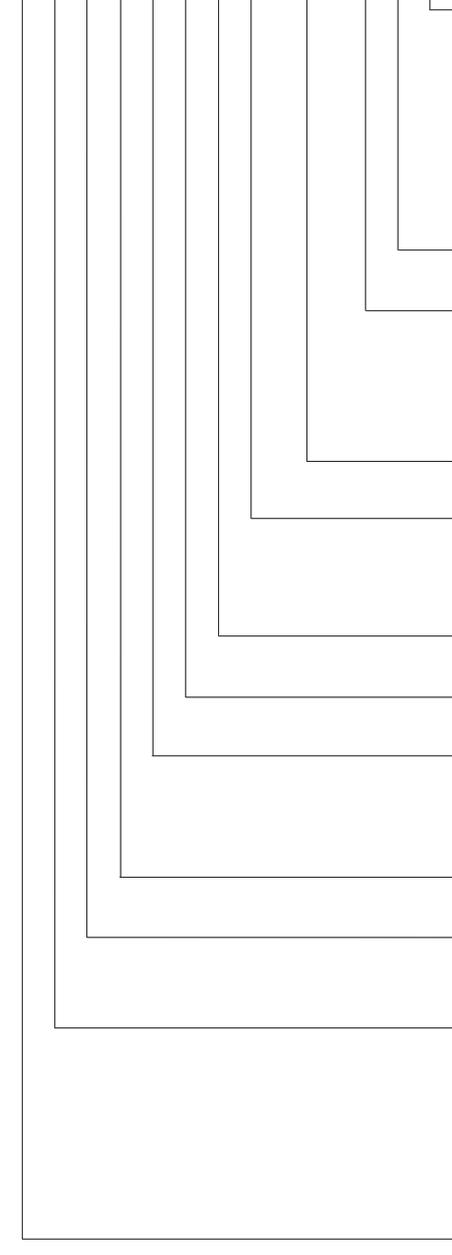
* LINAK control boxes are designed so that they will short-circuit the motor terminals (poles) of the actuator(s), when the actuator(s) are not running. This solution gives the actuator(s) a higher self-locking ability. If the actuator(s) are not connected to a LINAK control box, the terminals of the motor must be short-circuited to achieve the self-lock ability of the actuator.

All the above data is based on brakes 1 and 2 of the ordering example.

LA29

Ordering example:

29 1 5 0 0 - 0 0 1 0 0 0 5 0



Cables:

Jack cables

- 0 = Straight 2.4 m
- 1 = Straight 1.1 m
- 2 = Coiled 0.4 m
- 3 = Coiled 0.2 m

IP-Degree:

Motor type:

Stroke length:

Brake:

Option:

Colour:

Option: Position

Option:

Back fixture:

Spindle type:

Actuator type:

DIN cables

- A = Straight 2.4 m
- B = Straight 1.1 m
- C = Coiled 0.4 m
- D = Coiled 0.2 m

5 = IPX1

0 = 24 VDC Standard

3 = 24 VDC fast motor/single worm gear

4 = 24 VDC fast motor/double worm gear

5 = 12 VDC

XXX = mm (in steps of 50 mm, from 100 to 600 mm)

0 = None

1 = Brake push

2 = Brake

0 = Standard

- = Black, RAL 9005

0 = None

R = Reed switch (only available with DIN cable)

H = Hall

0 = Standard

1 - 2 = Standard with 10 mm slot

5 - 6 = Flexible

1 = 3 mm

2 = 5 mm

3 = 9 mm

4 = 4 mm

6 = 12 mm

7 = 6 mm

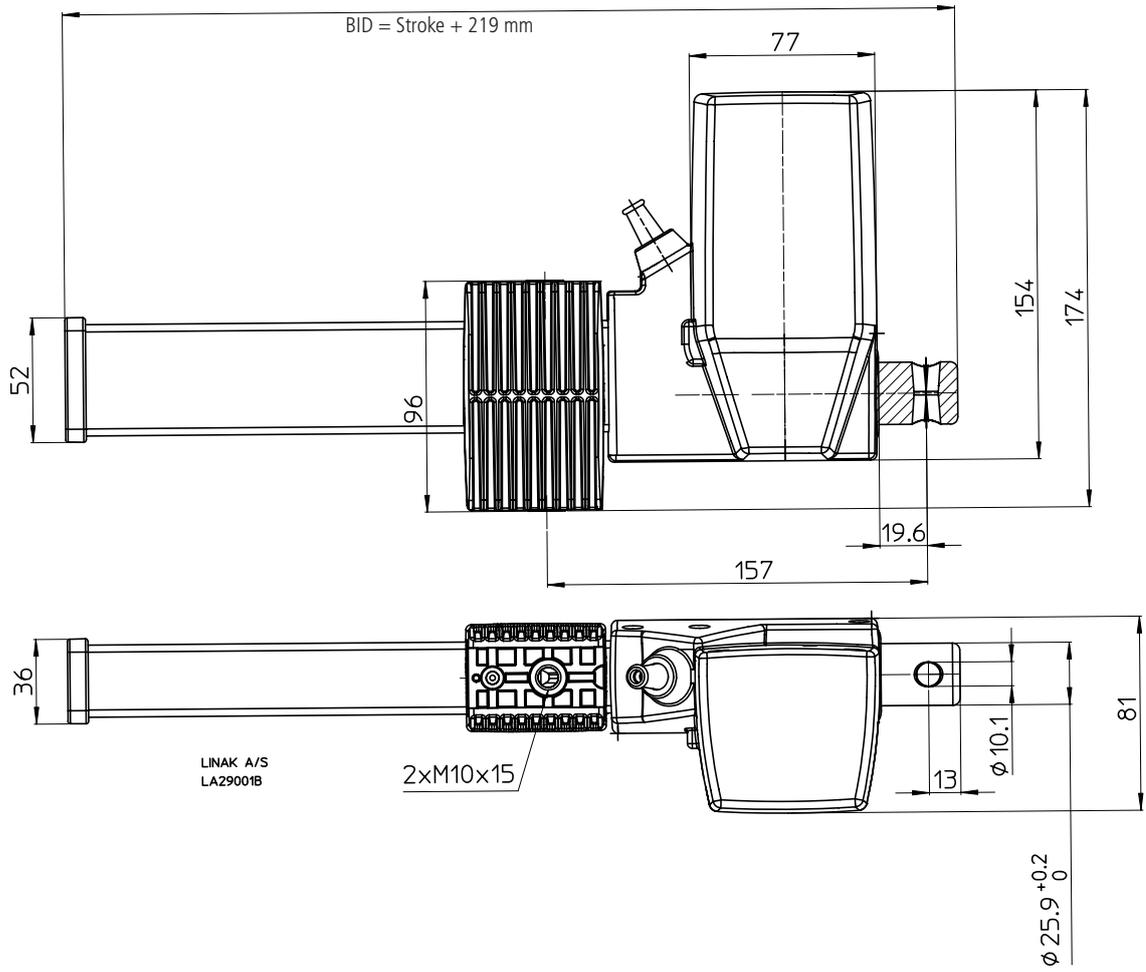
29 = LA29

Exchangeable cables

K = 80 mm for Hall

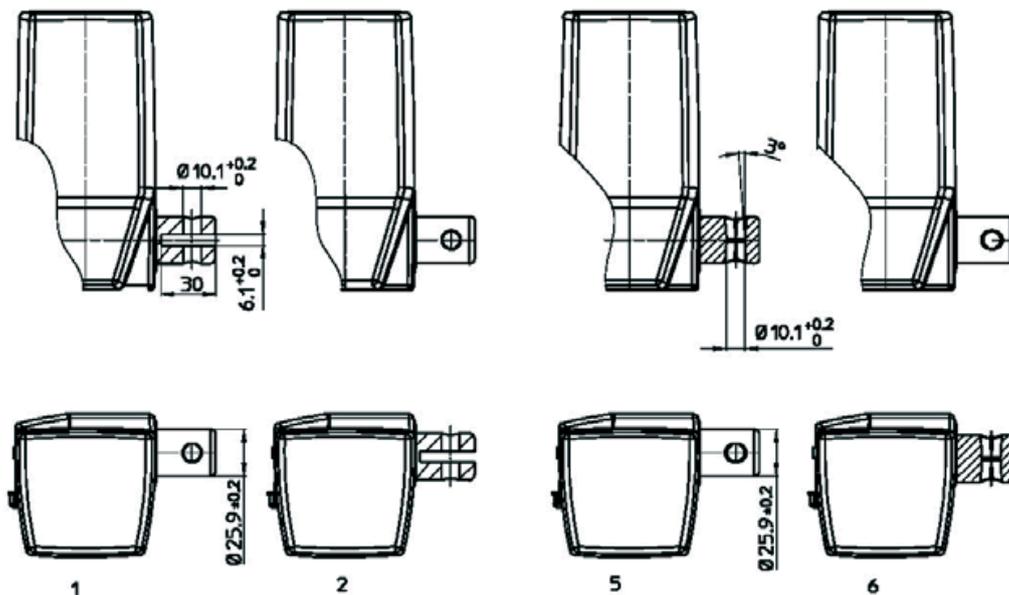
P = 80 mm

Dimensions - LA29 with flexible back fixture:



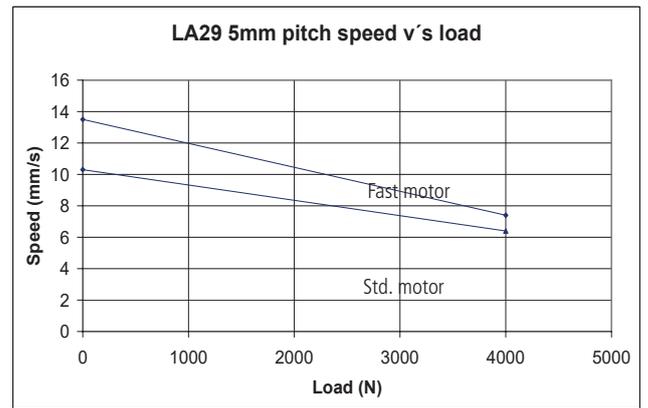
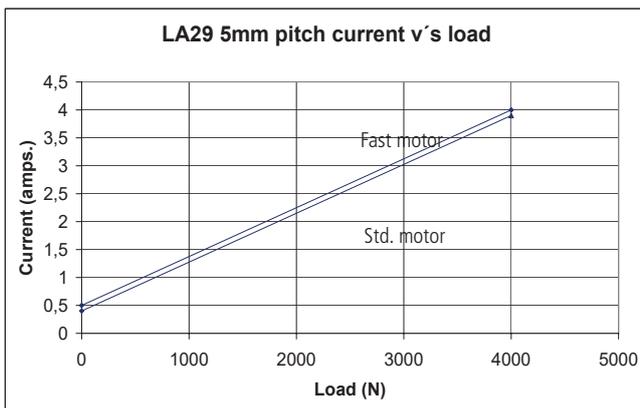
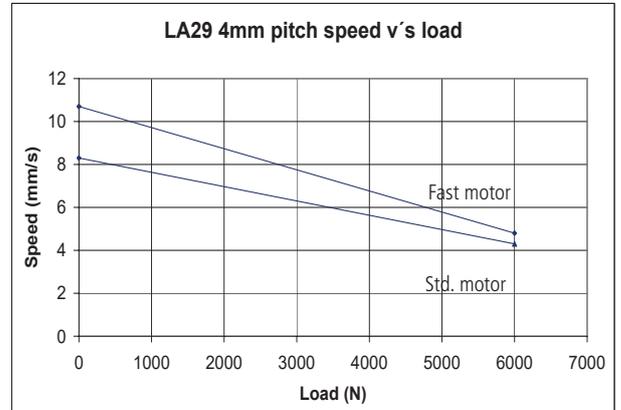
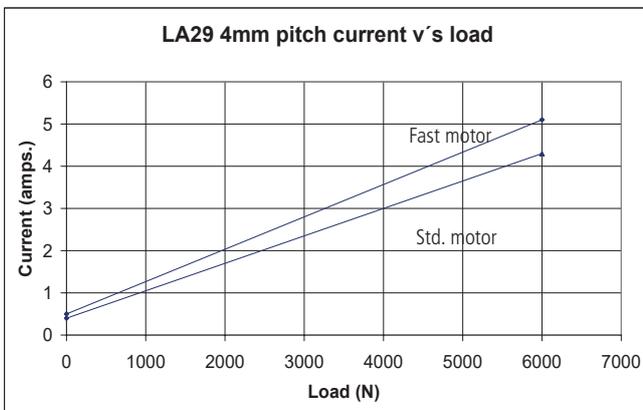
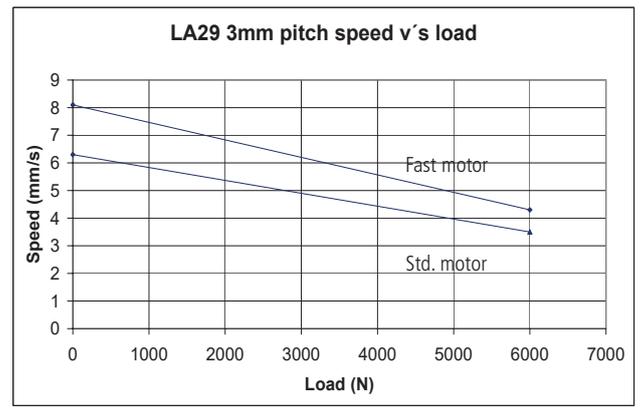
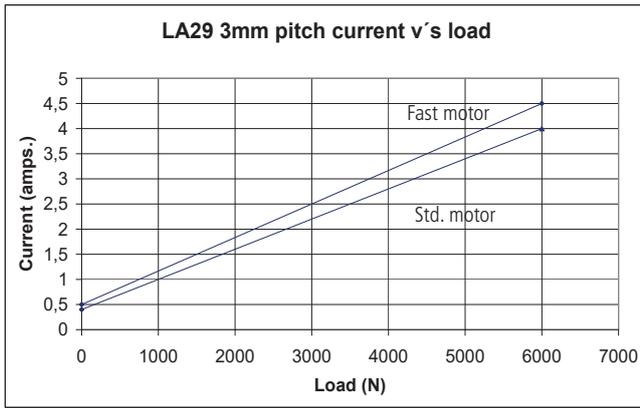
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Flexible back fixtures:

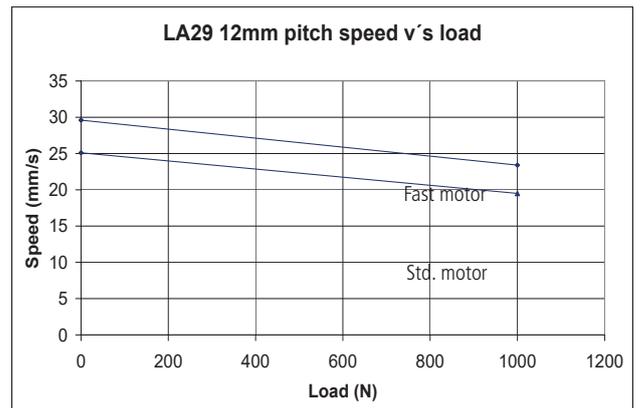
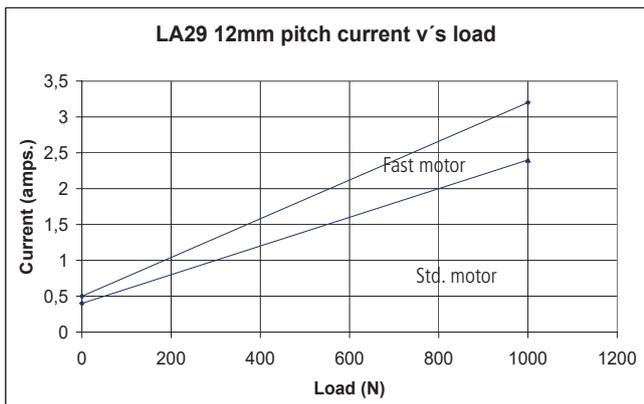
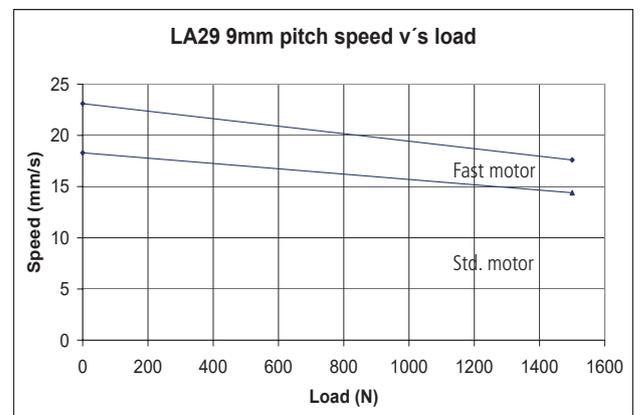
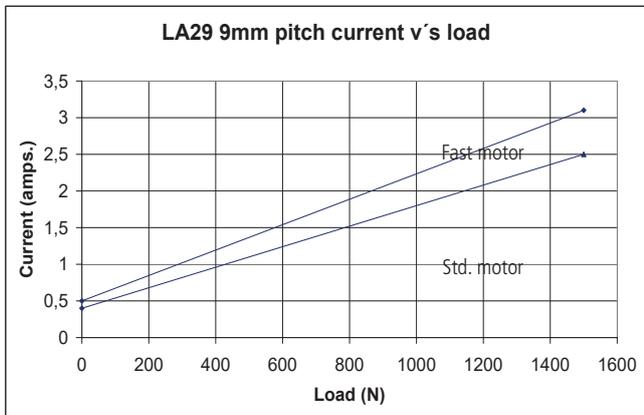
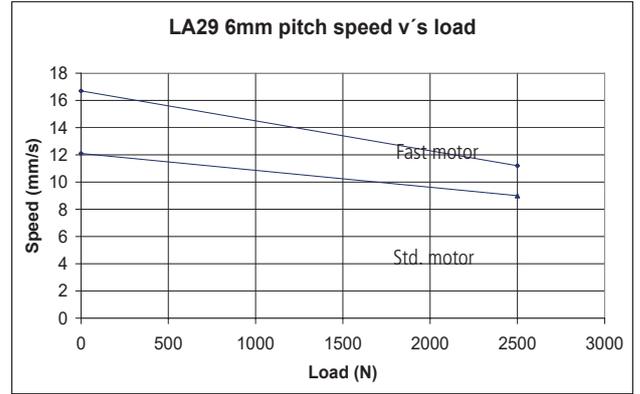
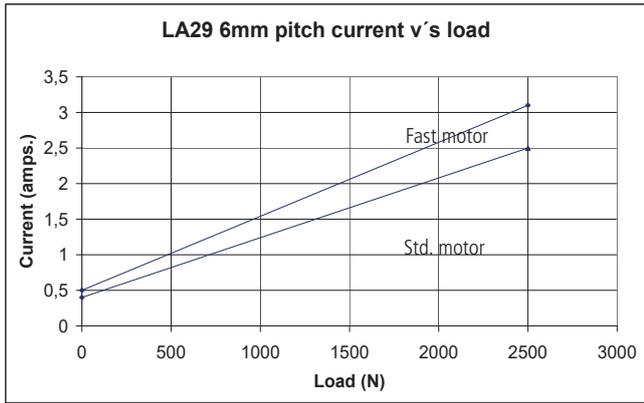


Drawing no.: LA29003D

Speed and load curves:



Speed and load curves:



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