

Actuator LA23

The LA23 actuator is a small and strong push/pull actuator (up to 2500 N). The LA23 can be used in various applications where size is important.

Some of the benefits the LA23 offers you are:

- Compact design
- High lifting force
- Exchangeable cables

The standard LA23 is available for both the CARELINE[®] and MEDLINE[®] product ranges.



Features and options:

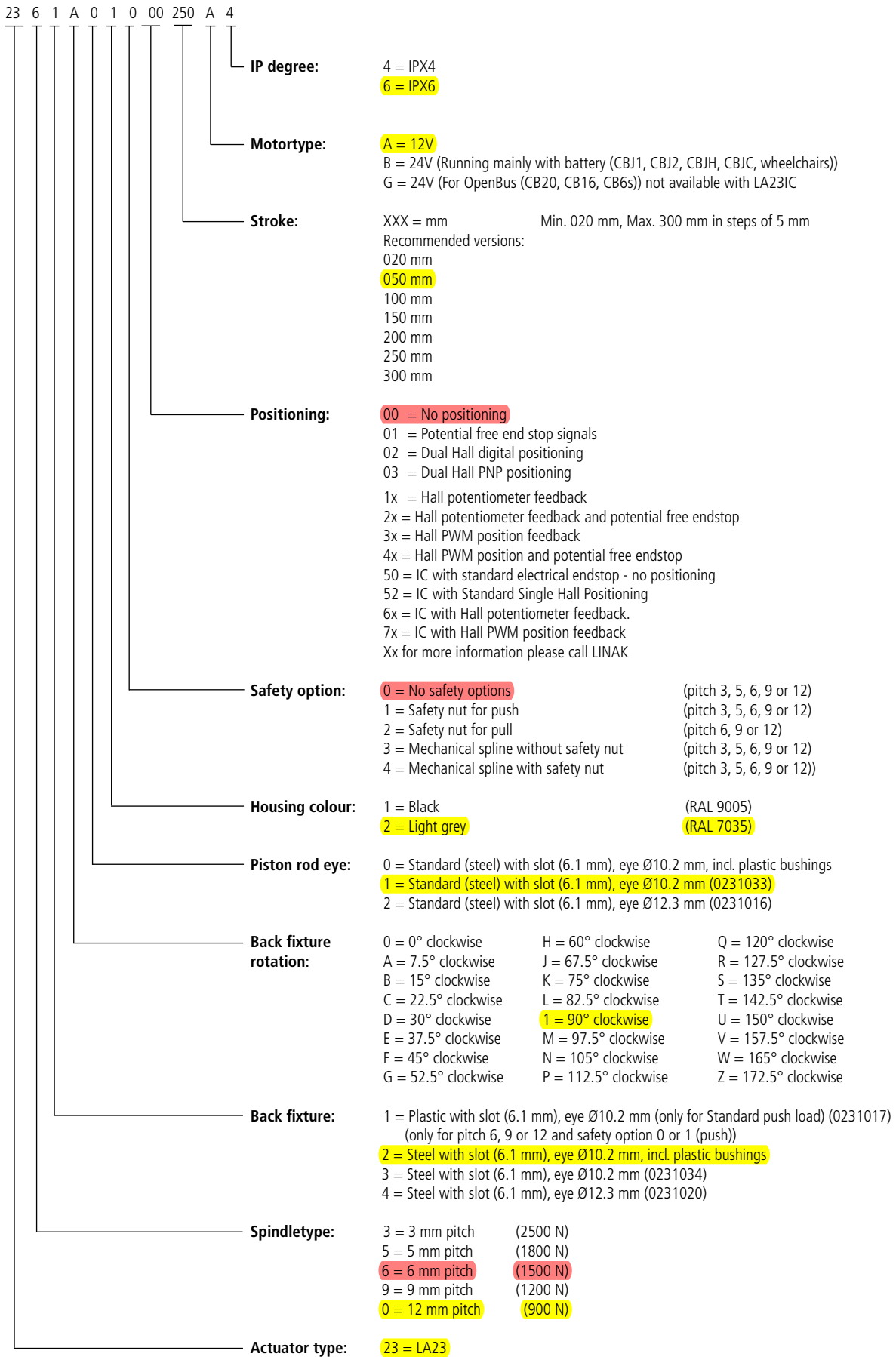
- Load in push: 2500N, 1800N, 1500N, 1200N or 900N
- Load in pull: 2500N, 1800N, 1500N, 1200N or 900N
- Housing colour: Grey or black
- Protection class: IPX4, IPX6
- Motor: 12 V DC, 24 V DC
- Stroke length: 20 - 300 mm
- Built-in dimensions: 110 - 146 mm + stroke length
- Positioning options: Potential free end-stop signals
Hall potentiometer or Hall PWM position Single Hall,
Dual Hall
- Back fixture material: Plastic or steel
- Nut: Guided
- Safety nut: In push or pull (2500N and 1800N version
only safety nut in push)
- Mechanical spline: Yes
- Built-in electrical end-stop: Yes
- Exchangeable cable: Yes
- Static safety factor: 2.5
- Noise level: Max. 58.5 dB(A) (At nominal voltage and
with no load, according to EN ISO 3743-1)
- Mechanical end stop: Yes
- Integrated Control Yes

Usage:

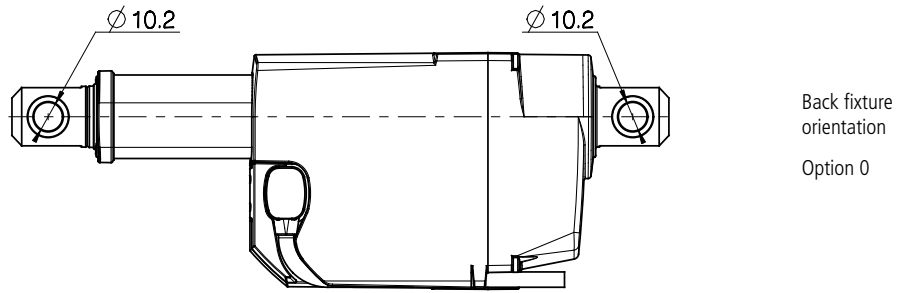
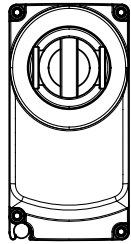
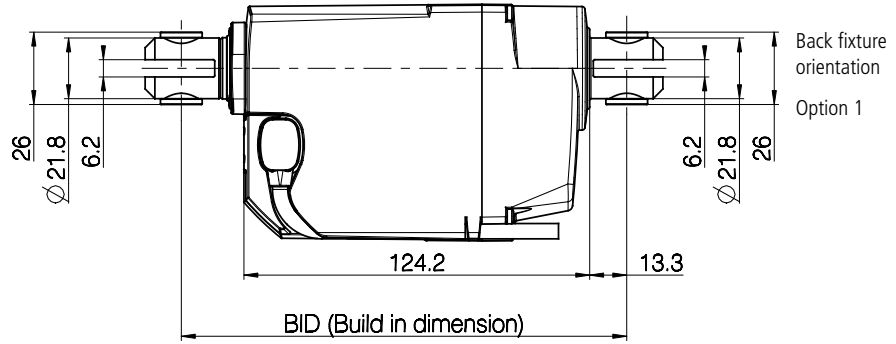
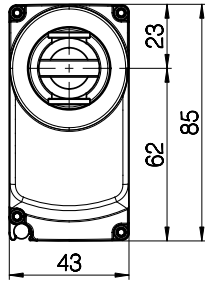
- Duty cycle: 10%, 2 minutes continuous use followed
by 18 minutes not in use
- Usage temperature:
-30°C to +55°C (according to ISO 7176-9)
- Storage temperature:
-45°C to +70°C (according to ISO 7176-9)
- Compatibility: CB20, CB16, CB6S, CBJ 1/2, CBJC, CBJH,
CBD4, CBD5 & CBD6*, CA30, CA40, CO61 and
SMPS-T160 (for combination possibilities, please see
the User Manual for SMPS-T160 on our website)
- * SLS must be ignored Up + Down in the CBD4, CBD5
or CBD6 when configured for LA23.
- * Only the 3, 6 & 12 mm versions can be configured in
the CBD4, CBD5 or CBD6.
- * Only tested for single use.
- Approvals:
IEC60601-1:2005 3rd ed.
ANSI / AAMI ES60601-1:2005 3rd edition,
LA23IC is not approved according to the above.
LA23 in combination with CBD4, CBD5 & CBD6 has
no approvals.
- Fire category: Enclosure UL94-V0

LA23

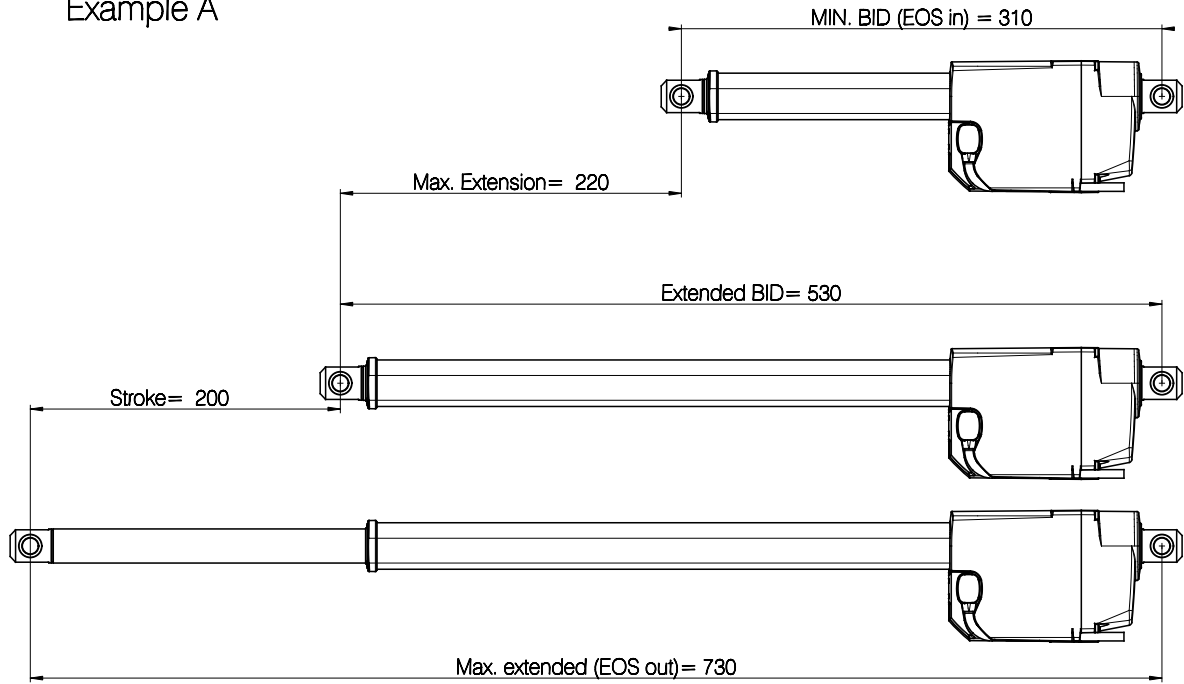
Ordering example:



Dimensions:



Example A



The built-in dimension depends upon the chosen safety option and stroke length. Please see the table below to decide upon the built-in dimension.

Safety option	Stroke length	Spindle pitch	Min. built-in Dimensions
0 = No safety option	20 - 49	6, 9 or 12	160
0 = No safety option	20 - 49	3, 5	168
1 = Safety nut for push	20 - 49	6, 9 or 12	160
1 = Safety nut for push	20 - 49	3, 5	168
2 = Safety nut for pull	20 - 49	6, 9 or 12	172
3 = Mechanical Spline for push	20 - 49	6, 9 or 12	180
3 = Mechanical Spline for push	20 - 49	3, 5	196
4 = Mechanical Spline & safety nut for push	20 - 49	6, 9 or 12	180
4 = Mechanical Spline & safety nut for push	20 - 49	3, 5	196
0 = No safety option	50 - 200	6, 9 or 12	110 + stroke
0 = No safety option	50 - 200	3, 5	118 + stroke
1 = Safety nut for push	50 - 200	6, 9 or 12	110 + stroke
1 = Safety nut for push	50 - 200	3, 5	118 + stroke
2 = Safety nut for pull	50 - 200	6, 9 or 12	122 + stroke
3 = Mechanical Spline for push	50 - 200	6, 9 or 12	130 + stroke
3 = Mechanical Spline for push	50 - 200	3, 5	146 + stroke
4 = Mechanical Spline & safety nut for push	50 - 200	6, 9 or 12	130 + stroke
4 = Mechanical Spline & safety nut for push	50 - 200	3, 5	146 + stroke
0 = No safety option	201 - 300	6, 9 or 12	130 + stroke
0 = No safety option	201 - 300	3, 5	138 + stroke
1 = Safety nut for push	201 - 300	6, 9 or 12	130 + stroke
1 = Safety nut for push	201 - 300	3, 5	138 + stroke
2 = Safety nut for pull	201 - 300	6, 9 or 12	142 + stroke
3 = Mechanical Spline for push	201 - 300	6, 9 or 12	150 + stroke
3 = Mechanical Spline for push	201 - 300	3, 5	166 + stroke
4 = Mechanical Spline & safety nut for push	201 - 300	6, 9 or 12	150 + stroke
4 = Mechanical Spline & safety nut for push	201 - 300	3, 5	166 + stroke

It is possible to order LA23 with extended built-in dimensions if the following requirements are fulfilled

	Spindle pitch = 6, 9, 12	Spindle pitch = 3, 5	Spindle pitch = 6, 9, 12	Spindle pitch = 6, 9, 12	Spindle pitch = 3, 5
	Safety option 0 : No safety option		Safety option 2 : safety nut pull	Safety option 3 : Spline without safety nut	
	Safety option 1 : safety nut push			Safety option 4 : Spline + safety nut push	
Max. built-in dimensions	≤ 730 - stroke	≤ 738 - stroke	≤ 742 - stroke	≤ 750 - stroke	≤ 766 - stroke

Example:

A) 6 mm pitch no safety option, stroke 200, BID can be max. $(730 - 200) = 530$

B) 3 mm pitch no safety option, stroke 20, BID can be max. $(738 - 20) = 718$

Technical specifications:

Power supply	Spindle pitch (mm)	Load max. Push or Pull (N)	Motor type	*Typical speed at 0/ full load (mm/sec.)	*Typical current at 0/ full load (Amp.)	Inrush current (Amp)
12VDC	3	2500 / 2500	A: 12V	3.1 / 2.5	0.8 / 3.6	13.4
CBJ1/2, CBJH and CBJC	3	2500 / 2500	B: 24V	3.2 / 2.6	0.4 / 1.9	8.7
OpenBus™	3	2500 / 2500	G: 24V	3.3 / 2.7	0.3 / 1.4	6.2
12VDC	5	1800 / 1800	A: 12V	5.4 / 4.2	0.8 / 3.9	13.4
CBJ1/2, CBJH and CBJC	5	1800 / 1800	B: 24V	5.4 / 4.5	0.4 / 1.9	8.7
OpenBus™	5	1800 / 1800	G: 24V	5.6 / 4.6	0.3 / 1.4	6.2
12VDC	6	1500 / 1500	A: 12V	6.6 / 5.2	0.8 / 3.6	13.4
CBJ1/2, CBJH and CBJC	6	1500 / 1500	B: 24V	6.4 / 5.5	0.4 / 1.7	8.7
OpenBus™	6	1500 / 1500	G: 24V	6.7 / 5.5	0.3 / 1.3	6.2
12VDC	9	1200 / 1200	A: 12V	9.9 / 7.5	0.9 / 4.0	13.4
CBJ1/2, CBJH and CBJC	9	1200 / 1200	B: 24V	9.5 / 8.1	0.4 / 1.9	8.7
OpenBus™	9	1200 / 1200	G: 24V	9.9 / 8.1	0.3 / 1.3	6.2
12VDC	12	900 / 900	A: 12V	13 / 9.6	0.9 / 3.8	13.4
CBJ1/2, CBJH and CBJC	12	900 / 900	B: 24V	12.6 / 10.4	0.4 / 1.9	8.7
OpenBus™	12	900 / 900	G: 24V	13.3 / 10.7	0.3 / 1.4	6.2

Safety nut and steel back fixture overview

Pitch (mm)	Load (N)	Safety nut	Steel back fixture	Plastic back fixture
12	900 N	Optional in push or pull	Required in pull	Only in push
9	1200 N	Optional in push or pull	Required in pull	Only in push
6	1500 N	Optional in push or pull	Required in pull	Only in push
5	1800 N	Optional in push (Safety nut 2500N not available in pull)	Always required	Not available
3	2500 N	Optional in push (Safety nut 2500N not available in pull)	Always required	Not available

Self-locking specifications

Spindle pitch	Without short circuit	With short circuit
12 mm pitch	750	900
9 mm pitch	750	1200
6 mm pitch	1200	1500
5 mm pitch	1600	1800
3 mm pitch	2500	2500

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