ACTUATOR LA23

Features and Options:

- Load in push: 2500N, 1800N, 1500N, 1200N or 900N
- 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 or IPX6
- Motor: 12 V DC, 24 V DC
- Stroke length: 20 300 mm
- Built-in dimensions: 110 mm + stroke length
- Positioning options:
 - Potential free end stop signals
 - Hall potentiometer or Hall PWM positioning

 - 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)
- Fire catagory: Enclosure UL94-V0
- Cycles: The LA23 Life cycle test has been performed with a stabilised power supply (10% duty cycle) on a 200 mm stroke actuator at max. load for the following number of cycles (at 20°C ambient temperature): 3 mm pitch = 5.000 cycles

5, 6, 9 and 12 mm pitch = 10.000 cycles



The LA23 actuator is a small and strong push or 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:

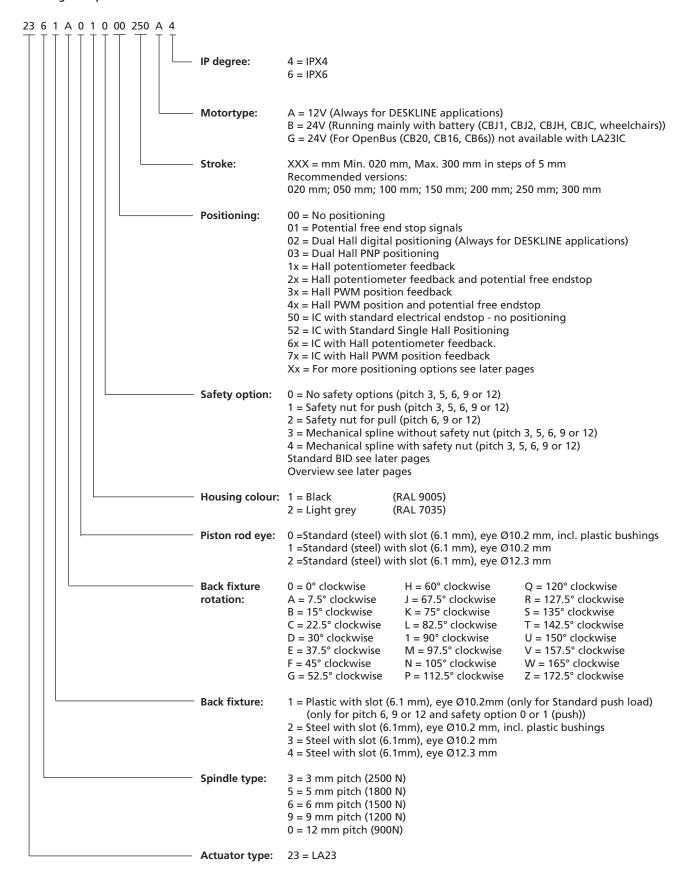
- Compact design
- · High lifting force
- Exchangeable cables
- Available with integrated control (IC)





LA23 TECHLINE

Ordering example:



Note:

- · Cables must be ordered separately.
- Cable locks must be ordered separately for LA23.

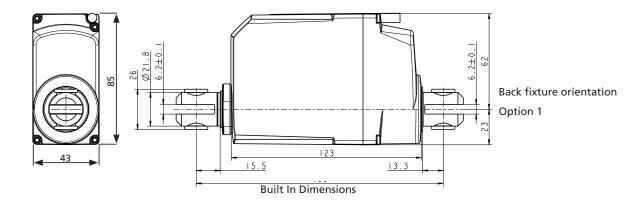
Positioning options.

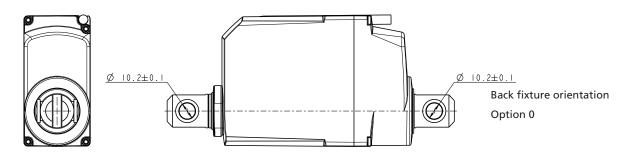
Different positioning options can be chosen for LA23.

Positioning/ Ordering code number		Description of positioning option		No. of pins in LA23
Х	х			
0	0	Standard electrical endstop - no positioning		6
0	1	Standard electrical endstop and potential free endstop - no positioning		6
0	2	Dual Hall digital positioning		6
0	3	Dual Hall PNP positioning		6
1	1	Hall Potentiometer feedback	0 - 10 V	10
1	2	Hall Potentiometer feedback	1 - 9 V	10
1	3	Hall Potentiometer feedback	2 - 8 V	10
1	4	Hall Potentiometer feedback	0 - 5 V	10
1	5	Hall Potentiometer feedback	0.5 - 4.5 V	10
1	6	Hall Potentiometer feedback	0 - 3.3 V	10
1	7	Hall Potentiometer feedback	0.3 - 3 V	10
2	1	Hall Potentiometer feedback and potential free endstop	0 - 10 V	10
2	2	Hall Potentiometer feedback and potential free endstop	1 - 9 V	10
2	3	Hall Potentiometer feedback and potential free endstop	2 - 8 V	10
2	4	Hall Potentiometer feedback and potential free endstop	0 - 5 V	10
2	5	Hall Potentiometer feedback and potential free endstop	0.5 - 4.5 V	10
2	6	Hall Potentiometer feedback and potential free endstop	0 - 3.3 V	10
2	7	Hall Potentiometer feedback and potential free endstop	0.3 - 3 V	10
3	1	Hall PWM position feedback	0 - 100 %	10
3	2	Hall PWM position feedback	10 - 90 %	10
3	3	Hall PWM position feedback	20 - 80 %	10
4	1	Hall PWM position feedback and with potential free endstop	0 - 100 %	10
4	2	Hall PWM position feedback and with potential free endstop	10 - 90 %	10
4	3	Hall PWM position feedback and with potential free endstop	20 - 80 %	10
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Positioning/ Ordering code number		Description of positioning option IC (Integrated Control)		No. of pins in LA23
Х	х			
5	0	Standard electrical endstop - no positioning		10
5	2	Standard single Hall positioning		10
6	1	Hall potentiometer feedback	0 - 10 V	10
6	2	Hall potentiometer feedback	1 - 9 V	10
6	3	Hall potentiometer feedback	2 - 8 V	10
6	4	Hall potentiometer feedback	0 - 5 V	10
6	5	Hall potentiometer feedback	0.5 - 4.5 V	10
6	6	Hall potentiometer feedback	0 - 3.3 V	10
6	7	Hall potentiometer feedback	0.3 - 3 V	10
7	1	Hall PWM postion feedback	0 - 100 %	10
7	2	Hall PWM postion feedback	10 - 90 %	10
7	3	Hall PWM postion feedback	20 - 80 %	10

Dimensions:





Tolerances:

For built-in dimensions and stroke \pm 2 mm.

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

Safety nut and back fixture overview

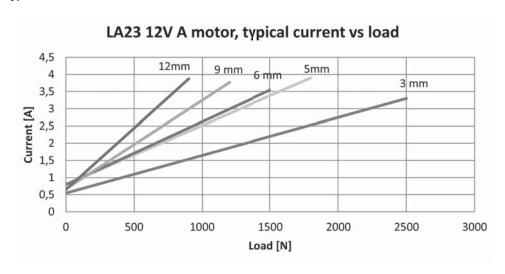
	Safety nut	Steel back fixture	Plastic back fixture
900 N	Optional in push or pull	Required in pull	Only in push
1200 N	Optional in push or pull	Required in pull	Only in push
1500 N	Optional in push or pull	Required in pull	Only in push
1800 N	Optional in push (Safety nut 2500 N not available in pull)	Always required	Not available
2500 N	Optional in push (Safety nut 2500 N not available in pull)	Always required	Not available

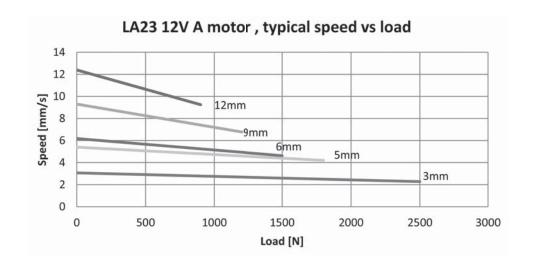
Self-locking specifications

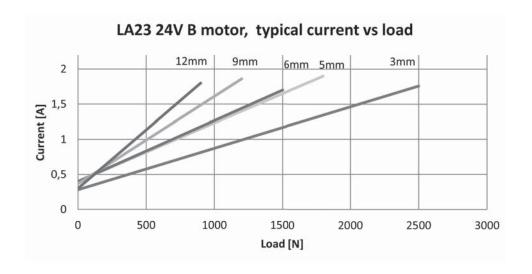
Maximum self-lock (N)	Without short circuit	With short circuit
12 mm pitch	750	900
9 mm pitch	750	1200
6 mm pitch	1200	1500
5 mm pitch	1600	1800
3 mm pitch	2500	2500

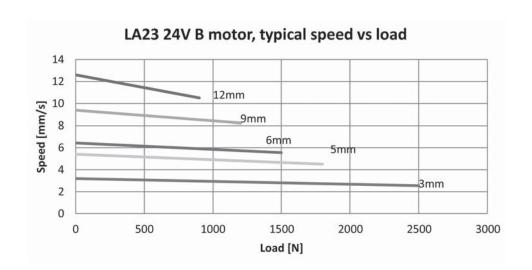
Speed, load and current curves:

12V motor - type A









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