

LSC – Iron-less linear motors



The LSC iron-less linear motors from Baumüller achieve maximum current and force rise. This makes them ideal for highly dynamic applications with maximum stiffness relative to disturbing forces.

Due to its principle of operation, this iron-less linear motor does not apply any forces of attraction to the guidance system. As no latching forces occur, this motor is able to achieve a unique degree of synchronicity. The coil is comprised of encapsulated air-core coils of minimal weight. The U-shaped magnet way can be arranged as desired.

Advantages:

- ⊙ Modular system
- ⊙ No cogging
- ⊙ Maximum rates of current and force rise
- ⊙ Perfect acceleration characteristic

Customer benefit:

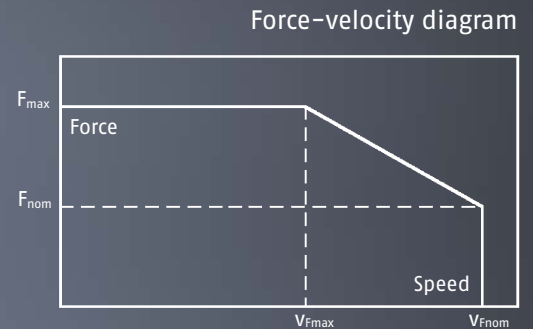
- ⊙ A solution at optimal costs
- ⊙ Optimal dimensioning of the directing system
- ⊙ Higher product quality
- ⊙ Higher productivity
- ⊙ Excellent synchronous features



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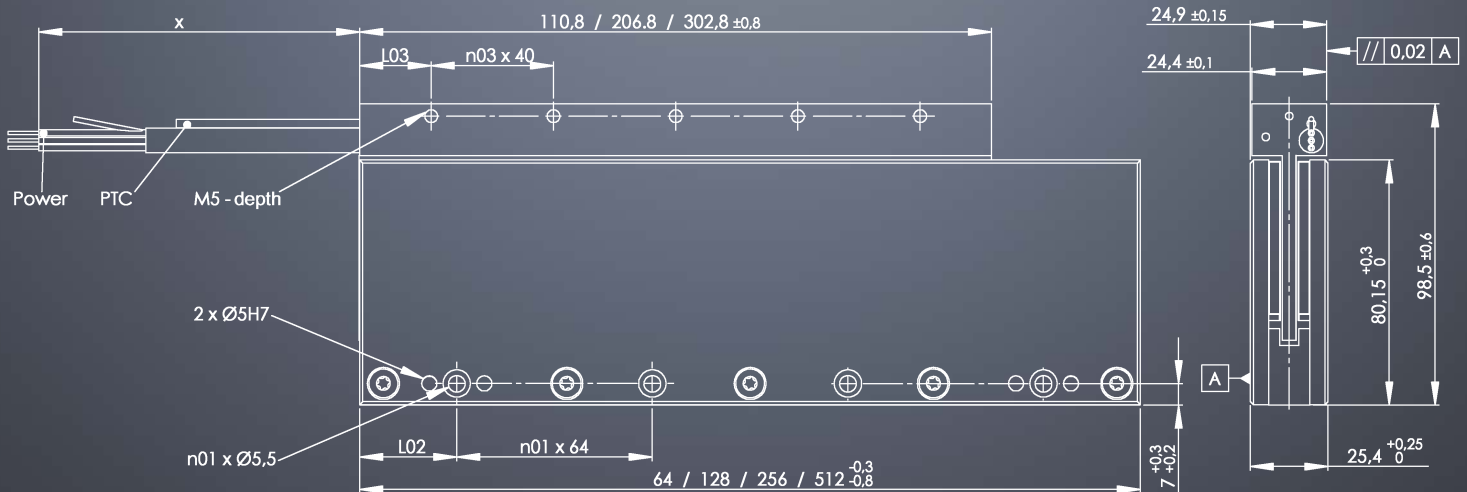
LSC61 series

Coil		LSC61G0812	LSC61G0818
Length	l1 [mm]	206.8	302.8
Weight	[kg]	0.5	0.7
Speed	$v(F_{nom})$ [m/s]	1.5	1.0
	$v(F_{max})$ [m/s]	0.5	0.1
Thrust force	F_{nom} [N]	89	131
	F_{max} [N]	380	480
Rated current	I_N [A]	1.1	1.1
	I_{max} [A]	4.6	3.9



Magnet way		LSM61-0802	LSM61-0804	LSM61-0808	LSM61-0816
Length	l1 [mm]	64	128	254	512
Weight	[kg]	0.78	1.55	3.1	6.2

Subject to alterations. The stated data are maximum values.
For details please have a look in the technical documentations.



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be in motion


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