

ZAtop Gearless elevator machine

SM210



Synchronous motor actuated by permanent magnets and according to the provisions of the Lift Directive 2014/33/EU

Drive

- NdFeB magnets
- Structural width ≤ 340 mm for the narrowest shaft dimensions
- Noise emissions: < 50 dB(A)
- Insulation class F with temperature monitoring

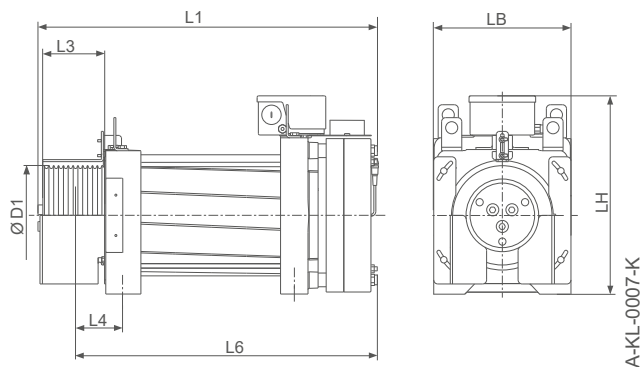
Brake system

- Safety component in accordance with Lift Directive 2014/33/EU
- Separately activated brake circuits
- Deployable as an element of the ascending car overspeed protection means
- Deployable as part of the protection against unintended car movement

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Technical data

SM210

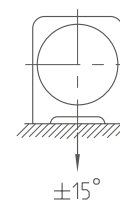


Motor type	Nominal torque Nm	Max. axle load kg	Nominal speed rpm	Rated output power kW	L1 mm	LH mm	L4 mm	L6 mm	LB mm	D1 mm	L3 mm	Weight kg
SM210.60B-20	800 - 850	4500	60 - 258	5.3 - 21.6	806	491	122	720	340	240	150	420
										320		425
									420	400		450
									543	520		480
SM210.70B-20	950 - 1000			6.3 - 25.7	856			770	340	240		445
										320		450
									420	400		470
									543	520		490

Scope of delivery and options

SM210	Standard	Options
Motor	Gearless elevator machine	-
Traction sheave	See D1	-
Brake	Certified brake system	Mechanical hand release
Brake monitoring	Microswitch	Inductive proximity switches
Motor cable	-	10 m, 15 m, 20 m, 25 m halogen free
Absolute encoder	EnDat	BiSS-C / SSI / SinCos / TTL
Rope guard	2 pieces	3. Rope guard
Temperature monitoring	PTC thermistor	PT100-thermistor
Cooling	Surface cooling	Forced ventilation

Resulting rope force



Information

ZAtop

ZAtopx

ZAsyn

ZAdisc

ZAtop AM

System components
motorsControl
technologySystem components
control
technology

Appendix

Example configurations

Other configurations, also outside of the examples listed below, are possible.

Our calculation software ZAlift is available to you for fast and convenient calculation of your elevator machine.

Suspension	Payload kg	Speed m/s	Traction sheave mm	Motor type	Number of ropes	Rope diameter mm	Motor power kW	Rated current A
1:1	480	1.00	520	SM210.60B-20	7	12.0	5.3	16.5
	525	1.00	520	SM210.70B-20	7	12.0	6.3	19.0
	675	1.00	400	SM210.60B-20	8	10.0	5.3	16.5
	675	1.60	400	SM210.60B-20	8	10.0	8.5	23.5
	800	1.00	320	SM210.60B-20	10	8.0	5.3	16.5
	800	1.60	320	SM210.60B-20	10	8.0	8.5	23.5
	1000	1.60	320	SM210.70B-20	10	8.0	10.1	28.0
2:1	1250	1.60	400	SM210.60B-20	8	10.0	13.9	35.5
	1600	1.00	320	SM210.60B-20	10	8.0	10.7	29.0
	1600	1.00	400	SM210.70B-20	8	10.0	10.1	28.0
	1600	1.60	400	SM210.70B-20	8	10.0	16.3	42.0
	2000	1.00	320	SM210.70B-20	10	8.0	12.6	33.0
	2500	1.00	240	SM210.60B-20	14	6.5	13.9	35.5
	2650	1.00	240	SM210.70B-20	14	6.5	16.3	42.0
4:1	2500	1.00	320	SM210.60B-20	8	8.0	21.6	54.0
	3000	1.00	400	SM210.70B-20	8	10.0	20.1	51.0