

ZAtop gearless elevator machine

SM200



SM200.15D/23D/30D



SM200.40E/45E

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

Elevator machine

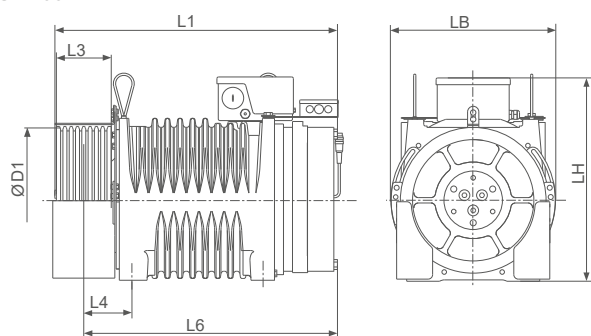
- NdFeB magnets
- Structural width ≤ 320 mm for the narrowest shaft dimensions
- Noise emissions: < 50 dB(A)
- Insulation class F with temperature monitoring

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

Technical data

SM200



A-KL-0010-K

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Machine frames	Page 63
Deflection pulleys	Page 70
Adapter plates	Page 59
Forced ventilation	Page 73
ZAlift	Page 76

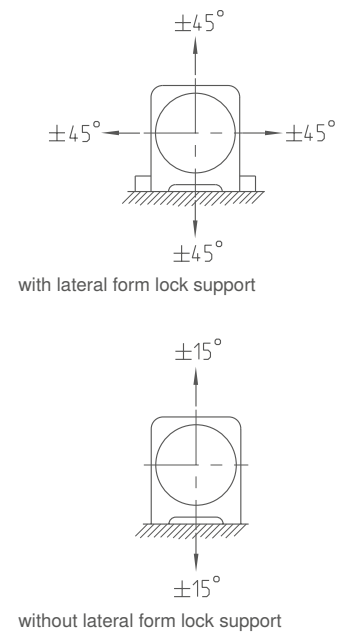
Motor type	Nominal torque Nm	Max. axle load kg	Nominal speed rpm	Rated output power kW	L1 mm	LH mm	L4 mm	L6 mm	LB mm	D1 mm	L3 mm	Weight kg
SM200.15D-20	250	1855	96 - 306	2.5 - 8	491	438	81	428	320	160	76	150
										200	88	155
										240		162
									366	320	74	166
SM200.23D-20	330 - 380	2575 - 2850		3.8 - 13.3	513		96	443	320	160	106	175
					517					200	124	184
					513				360	320	110	196
									422	400	92	208
									474	450		222
SM200.30D-20	450 - 475	2690 - 2850	60 - 306	3.0 - 14.4	568			498	320	200	106	214
											124	215
										240		224
									360	320	110	227
									422	400	92	239
									474	450		252
SM200.40E-20	450 - 600	3300 - 3600	96 - 300	6.0 - 19.2	654	451	105	569	322	160	106	280
					632		97	561		200		282
										240	124	295
					681		122	586			173	303
					632		102	566	360	320	122	307
					631		97	561	422	400	95	310
									520	500	90	329
SM200.45E-20	650 - 710		60 - 300	4.5 - 20.4	654		105	569	322	160	106	280
					632		97	561		200		282
										240	124	295
					681		122	586			173	303
					632		102	566	360	320	122	307
					631		97	561	422	400	95	310
									520	500	90	329



Scope of delivery and options

SM200	Standard	Options
Motor	Gearless elevator machine	-
Traction sheave	See D1	-
Brake	Certified brake system	Mechanical hand release system with or without bowden cables
Brake monitoring	Microswitch	Inductive proximity switches
Motor cable	5 m (SM200.15D to SM200.30D)	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 motors

Control technology

System 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	375	1.00	400	SM200.30D-20	5	10.0	3.0	10.5
	450	1.00	160	SM200.15D-20	6	8.1	3.1	10.7
	450	1.00	400	SM200.40E-20	5	10.0	6.0	16.5
	480	1.00	240	SM200.23D-20	11	6.0	3.8	12.0
	525	1.60	320	SM200.45E-20	7	8.0	7.1	20.0
	630	1.00	240	SM200.30D-20	11	6.0	4.8	14.5
	630	1.00	320	SM200.40E-20	7	8.0	6.0	16.5
2:1	450	1.00	400	SM200.23D-20	5	8.0	3.8	12.0
	480	1.00	320	SM200.15D-20	4	8.0	4.4	13.0
	630	1.00	450	SM200.30D-20	5	8.0	4.8	14.5
	630	1.60	240	SM200.15D-20	8	6.0	6.8	19.0
	630	1.60	320	SM200.23D-20	6	8.0	7.6	21.0
	675	1.60	200	SM200.15D-20	8	6.0	8.0	22.0
	800	1.00	500	SM200.40E-20	5	8.0	6.0	16.5
	800	1.60	320	SM200.30D-20	6	8.0	9.6	26.0
	1000	1.00	240	SM200.23D-20	10	6.0	6.7	18.5
	1000	1.00	320	SM200.40E-20	7	8.0	7.5	20.0
	1000	1.00	400	SM200.45E-20	5	10.0	7.1	20.0
	1000	1.60	240	SM200.30D-20	11	6.0	12.8	34.0
	1250	1.60	320	SM200.45E-20	8	8.0	14.3	36.0
	1275	1.00	240	SM200.30D-20	11	6.0	8.4	23.0
	1600	1.00	240	SM200.40E-20	16	6.0	10.6	26.5
	1800	1.00	200	SM200.45E-20	8	8.1	14.3	36.0
	2000	1.00	240	SM200.45E-20	16	6.0	11.6	30.0
4:1	2500	1.00	320	SM200.45E-20	7	8.0	19.2	46.0