

ZAtop gearless elevator machine

SM200



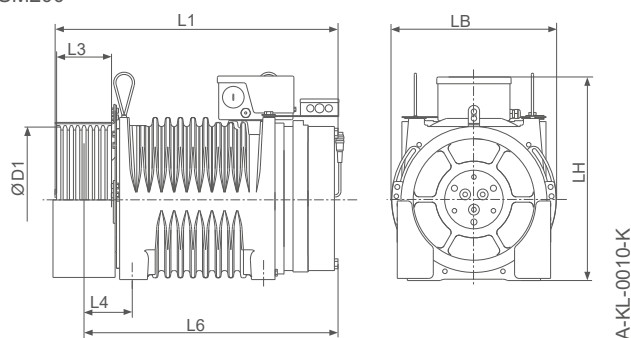
SM200.15D/20D/30D



SM200.40E/45E

Technical data

SM200



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

Drive

- 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

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Deflection pulleys	Page 68
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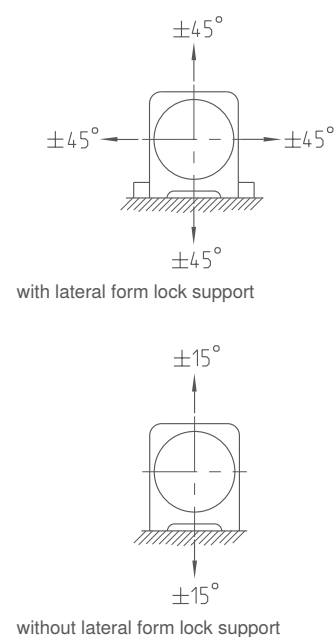
Motor type	Nominal torque Nm	Max. axle load kg	Nominal speed rpm	Rated output power kW	L1 mm	LH mm	L4 mm	L6 mm	LB mm	D1 mm	L3 mm	Weight kg	
SM200.15D-20	250	1855	96 - 306	2.5 - 8.0	491	438	81	428	320	160	76	150	
										200	88	155	
										240		162	
										366	320	74	166
SM200.23D-20	380	2575 - 2850		3.8 - 12.2	513		96	443	320	160	106	175	
					517						240	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
		124		215									
240		224											
360	320	110		227									
422	400	92		239									
474	450			252									
SM200.40E-20	600	3300 - 3600	96 - 300	6.0 - 18.8	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
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



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