

ALIMAK SE-series

TECHNICAL DATA

CAPACITY Metric

Pay load capacities:	300 – 2400
Average speed up/down at rated pay-load:	
Direct on line (DOL) 50 Hz	0.40 / 0.60 m/s
Direct on line (DOL) 60 Hz	0.48 / 0.72 m/s
Variable frequency control (VFC):	0.4 – 1.2 m/s
Max. lifting height with std. accessories:	250* m

***Depending on the optional equipment chosen**

DIMENSIONS

Internal width:	0.78 – 1.56 m
Internal length:	1.04 – 2.99 m
Internal height:	2.17 m
Bi-folding door opening width:	0.66 m
Sliding door opening width:	0.69 m alt. 0.95 m alt. 1.27 m or 1.53 m
Door opening height;	2.015 m
Headroom required above the landing:	4.0 to 4.5 m
Min. required shaft dimension: = Landing enclosure outside dimension	–
Mast section length:	1.508 m

CAR WEIGHT

Car weight	750 – 1900 kg
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CONTROLS

Operation: Single automatic 2 – 3 landings
 Semi-automatic 3 – n landings
 Collective / Selective 2 – 16 landings
 All systems can control DOL, only collective for VFC.

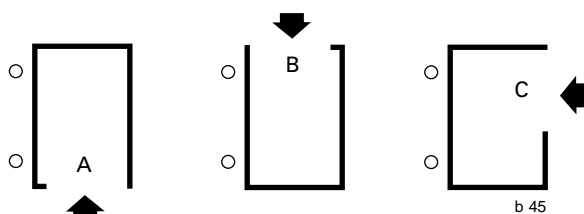
Separate power voltage: 230V AC / 110V AC

Control circuit voltage: 230V AC

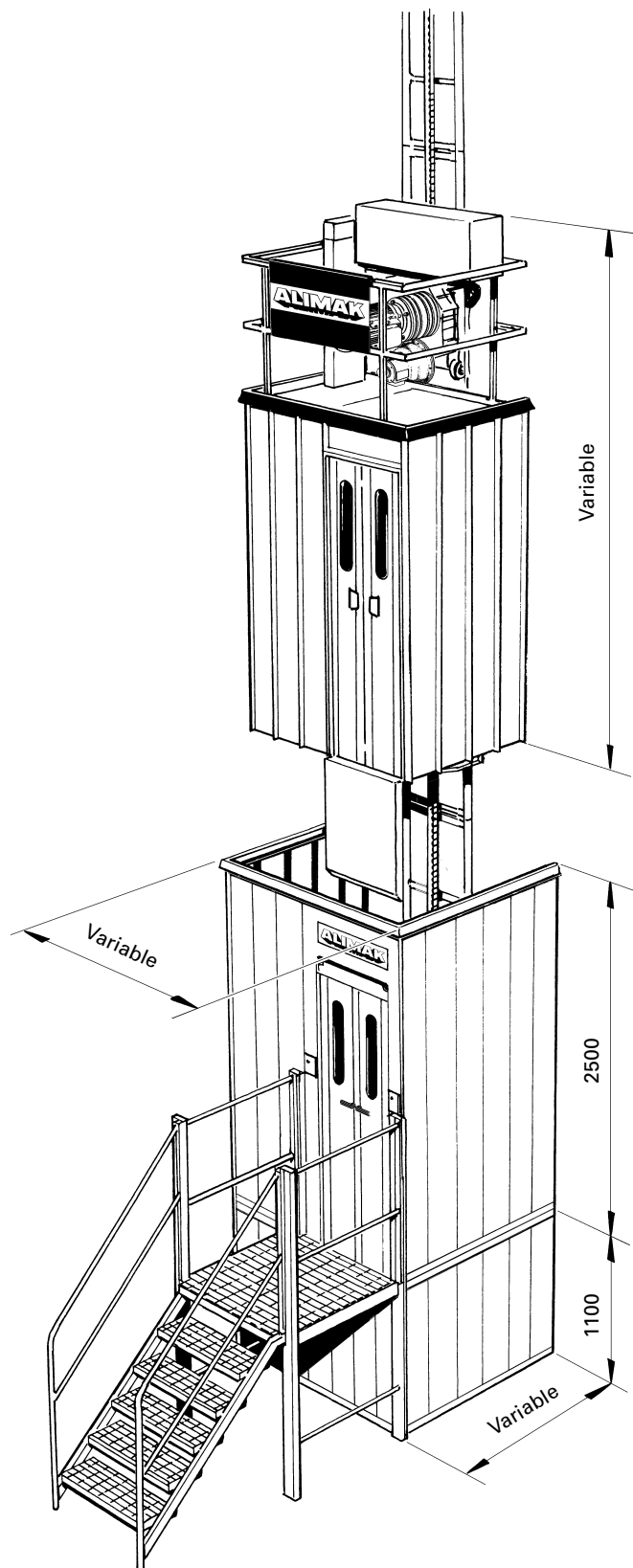
Motor control: direct on line (DOL) or
 variable frequency control (VFC)

Measured noise level in car less than ≤ 75 dB(A)

Car door configuration



or combinations AB/AC/BC



Technical Data Alimak SE-series Lifts DOL (load & car size)

Lift type	Speed m/s	No. of passengers EN	Pay-load kg	Car size w x l m	Door opening width meter					Headroom required above top landing in meter	
					0.66	0.69	0.95	1.27	1.53	1 motor	2 motor
SE 300	0.59	4	300	0.78 x 1.04	x	x**	NA	NA	NA	4.0	NA
SE 300 L	0.63	4	300	0.78 x 1.04	x	x**	NA	NA	NA	4.0	NA
SE 400	0.59	5	400	0.91 x 1.17	x	x**	x**	NA	NA	4.0	NA
SE 450 L	0.63	5	450	0.91 x 1.17	x	x**	x**	NA	NA	4.0	NA
SE 500	0.59	6	500	1.04 x 1.17	x	x	x**	NA	NA	4.0	NA
SE 1200	0.40	16	1200	1.30 x 2.08	NA	NA	NA	x	NA	NA	4.1

L means models adapted for container cranes

Technical Data Alimak SE-series Lifts VFC (load & car size)

Lift type	Speed m/s	No. of passengers EN	Pay-load kg	Car size w x l m	Door opening width meter					Headroom required above top landing in meter	
					0.66	0.69	0.95	1.27	1.53	1 motor	2 motor
SE 300	0.6 alt. 0.8 or 1.0	4	300	0.78 x 1.04	x	x**	NA	NA	NA	4.1	NA
SE 400	0.6 alt. 0.8 or 1.0	5	400	0.91 x 1.17	x	x**	x**	NA	NA	4.1	NA
SE 500	0.6 alt. 0.8 or 1.0	6	500	1.04 x 1.17	x	x	x**	NA	NA	4.1	NA
SE 1200	0.6 alt. 0.8 or 1.0	16	1200	1.30 x 2.08	NA	NA	NA	x	NA	NA	4.5
SE 2000	0.4 alt. 0.6	26	2000	1.56 x 2.60	NA	NA	NA	NA	x	NA	4.5

AVAILABLE CAR SIZES A means A standard specified above

Lift Size	No. of pass.	Car size Metric	Door opening width					DOL ***		Speed m/s	VFC ****	Power kW
			0.66	0.69	0.95	1.27	1.53	Speed m/s	Power kW			
A SE 300	4	0.78 x 1.04	x	x	NA	NA	NA	0.6	7.0	0.6 alt. 0.8 or 1.0	13 alt. 19	
SE 400	4	0.78 x 1.17	x	x	x**	NA	NA	0.6	7.0	0.6 alt. 0.8 or 1.0	13 alt. 19	
- " -	5	0.78 x 1.30	x	x	x**	NA	NA	0.6	7.0	0.6 alt. 0.8 or 1.0	13 alt. 19	
- " -	5	0.78 x 1.43	x	x	x**	NA	NA	0.6	7.0	0.6 alt. 0.8 or 1.0	13 alt. 19	
SE 500	6	0.78 x 1.56	x	x	x**	NA	NA	0.6	8.8	0.6 alt. 0.8 or 1.0	13 alt. 19	
SE 400	4	0.91 x 1.04	x	x	x**	NA	NA	0.6	7.0	0.6 alt. 0.8 or 1.0	13 alt. 19	
A SE 400	5	0.91 x 1.17	x	x	x**	NA	NA	0.6	7.0	0.6 alt. 0.8 or 1.0	13 alt. 19	
SE 500	6	0.91 x 1.30	x	x	x**	NA	NA	0.6	8.8	0.6 alt. 0.8 or 1.0	13 alt. 19	
- " -	6	0.91 x 1.43	x	x	x**	NA	NA	0.6	8.8	0.6 alt. 0.8 or 1.0	13 alt. 19	
SE 600	7	0.91 x 1.56	x	x	x**	NA	NA	0.6	8.8	0.6 alt. 0.8 or 1.0	13 alt. 19	
SE 400	5	1.04 x 1.04	x	x	x	NA	NA	0.6	8.8	0.6 alt. 0.8 or 1.0	13 alt. 19	
A SE 500	6	1.04 x 1.17	x	x	x	NA	NA	0.6	8.8	0.6 alt. 0.8 or 1.0	13 alt. 19	
- " -	6	1.04 x 1.30	x	x	x	NA	NA	0.6	8.8	0.6 alt. 0.8 or 1.0	13 alt. 19	
SE 600	8	1.04 x 1.43	x	x	x	NA	NA	0.6	8.8	0.6 alt. 0.8 or 1.0	13 alt. 19	
SE 700	9	1.04 x 1.56	x	x	x	NA	NA	0.6	13.0	0.6 alt. 0.8 or 1.0	13 alt. 19	
SE 900	12	1.30 x 1.69	NA	NA	NA	x	NA	0.4	2 x 8.8	0.6 alt. 0.8 or 1.0	2 x 13 alt. 19	
SE 1000	13	1.30 x 1.82	NA	NA	NA	x	NA	0.4	2 x 8.8	0.6 alt. 0.8 or 1.0	2 x 13 alt. 19	
SE 1100	14	1.30 x 1.95	NA	NA	NA	x	NA	0.4	2 x 8.8	0.6 alt. 0.8 or 1.0	2 x 13 alt. 19	
A SE 1200	16	1.30 x 2.08	NA	NA	NA	x	NA	0.4	2 x 8.8	0.6 alt. 0.8 or 1.0	2 x 13 alt. 19	
SE 1300	17	1.30 x 2.21	NA	NA	NA	x	NA			0.6 alt. 0.8	2 x 13 alt. 19	
SE 1500	20	1.30 x 2.47	NA	NA	NA	x	NA			0.6 alt. 0.8	2 x 13 alt. 19	
SE 1600	21	1.30 x 2.73	NA	NA	NA	x	NA			0.6 alt. 0.8	2 x 13 alt. 19	
SE 1800	24	1.30 x 2.99	NA	NA	NA	x	NA			0.4 alt. 0.6	2 x 13 alt. 19	
SE 1200	16	1.56 x 1.69	NA	NA	NA	NA	x			0.6 alt. 0.8 or 1.0	2 x 13 alt. 19	
SE 1400	18	1.56 x 1.95	NA	NA	NA	NA	x			0.6 alt. 0.8	2 x 13 alt. 19	
SE 1600	21	1.56 x 2.21	NA	NA	NA	NA	x			0.6 alt. 0.8	2 x 13 alt. 19	
SE 1800	24	1.56 x 2.47	NA	NA	NA	NA	x			0.4 alt. 0.6	2 x 13 alt. 19	
A SE 2000	26	1.56 x 2.60	NA	NA	NA	NA	x			0.4 alt. 0.6	2 x 13 alt. 19	
SE 2100	28	1.56 x 2.73	NA	NA	NA	NA	x			0.4 alt. 0.6	2 x 13 alt. 19	
SE 2400	32	1.56 x 2.99	NA	NA	NA	NA	x			0.4 alt. 0.6	2 x 13 alt. 19	

* Rated speed at 50 / 60 Hz respectively ** For C-door only *** 400V 50Hz / 460V 60Hz **** The higher value at maximum speed

acc. to EN 81)

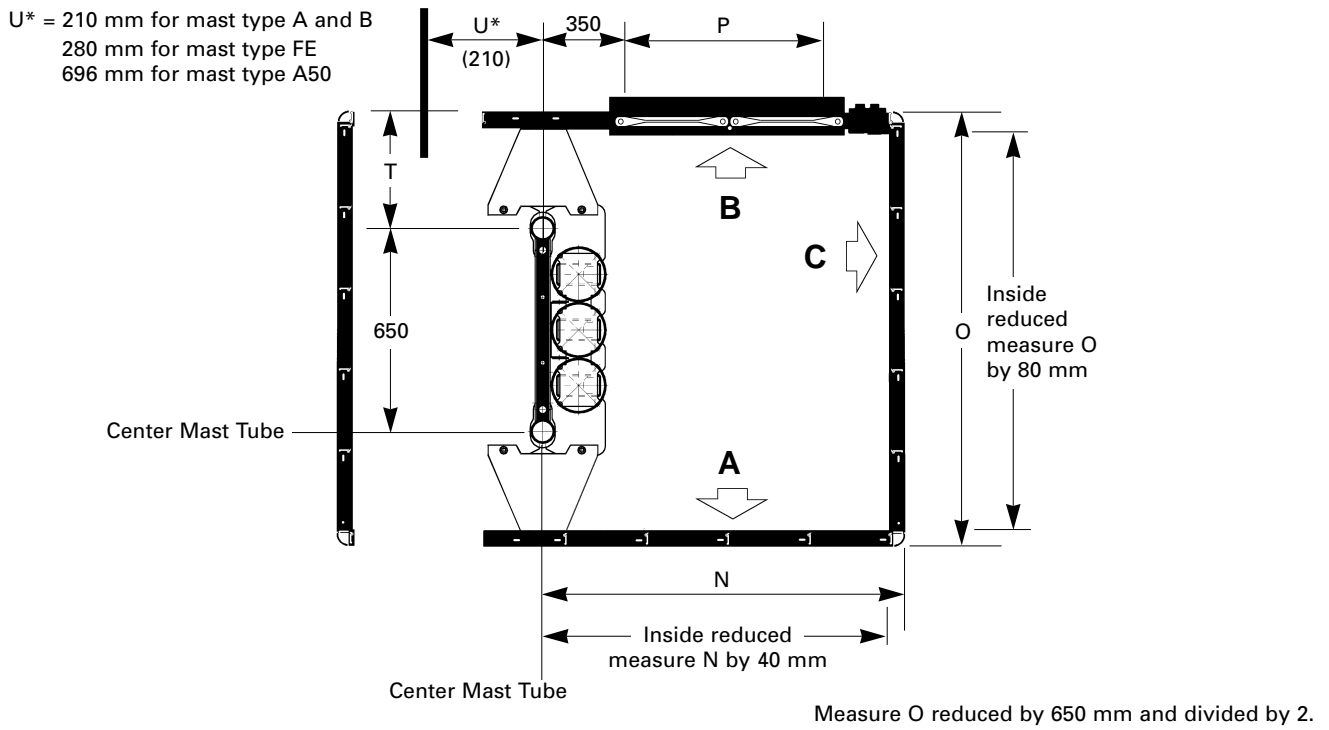
METRIC UNITS

Min. required shaft dimensions	Enclosure w x d m	Power supply fuses A ***	Rated power kW ***	Starting current A	Power kVA ***	Car weight approx. kg	Mast type			
							A kg	B kg	FE kg	A-50 kg
depends on mast choice	depends on mast choice	25	7.0	93	~10.5	770	53	78	100	110
- " -	- " -	25	7.0	93	~11	770	53	78	100	110
- " -	- " -	25	7.0	93	~10.5	830	53	78	100	110
- " -	- " -	35	8.8	104	~12	830	53	78	100	110
- " -	- " -	35	8.8	144	~11.5	810	53	78	100	110
- " -	- " -	50	2 x 8.8	208	~16	1470	NA	78	100	110

acc. to EN 81)

Min. required shaft dimensions	Enclosure w x d m	Power supply fuses A ****	Rated power kW ****	Starting current A ****	Power kVA ****	Car weight approx. kg	Mast type			
							A kg	B kg	FE kg	A-50 kg
depends on mast choice	depends on mast choice	20 – 35	13 alt. 19	15 – 28	~ 10 – 16.5	880	53	78	100	110
- " -	- " -	20 – 35	13 alt. 19	16 – 30	~ 11 – 18	910	53	78	100	110
- " -	- " -	25 – 35	13 alt. 19	17 – 33	~ 11.5 – 19	900	53	78	100	110
- " -	- " -	50 – 63	2 x 13 alt. 19	33 – 64	~ 21 – 34.5	1560	NA	78	100	110
- " -	- " -	35 – 50	2 x 13 alt. 19	29 – 51	~ 19 – 28.5	1780	NA	NA	100	110

LANDING ENCLOSURE DIMENSIONS



Car width	N mm	O Door location A and B	alt. O Door location C	P mm	U as per guide rail / mast type A and B	FE	A50	T
0.78 m	1255	car length + 370 mm	car length + 370 mm	690	210 mm	280 mm	696 mm	O – 650 mm / 2
0.91 m	1385	- " -	- " -	690	- " -	- " -	- " -	- " -
1.04 m	1515	- " -	- " -	950	- " -	- " -	- " -	- " -
1.30 m	1840	- " -	car length + 500 mm	1270	- " -	- " -	- " -	- " -
1.56 m	2100	- " -	- " -	1530	- " -	- " -	- " -	- " -

Tube guide rail type A
for lifting heights up
to 50 meter



Modified tube guide rail type A
for lifting heights above
50 up to 200 meter



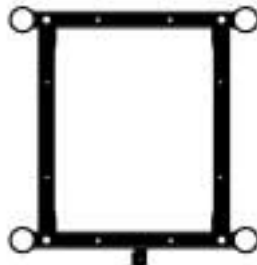
Tube guide rail type B



Rectangular tube
mast section type FE



Square tube
mast section type A50



GUIDE RAILS / MASTS

Type: Tubular steel with integrated rack
Section length 1.508 m

Alternative:	Type	Weight	Tie-distance
	A	53 kg	each 1.5 m
modified	A	58 kg	each 1.5 m
	B	78 kg	up to 5.5 m
	FE	100 kg	up to 12 m
	A50	110 kg	up to 24 m

ELECTRICAL DATA

Power supply

Voltage:	DOL	380 – 420 V, 50 Hz or 440 – 480 V, 60 Hz
	VFC	380 – 500 V, 50/60 Hz

Electrical motor

Type:	AC squirrel cage motor	
Alternative: (kW at 25 % intermittent duty)	DOL	1 x 7.0 kW
		1 x 13 kW
		1 x 8.8 kW
		2 x 8.8 kW

VFC	1 x 13 kW Star / 1 x 19 kW Delta
	2 x 13 kW Star / 2 x 19 kW Delta

Electrical brake

Type spring applied electromagnetic disc brake:

7.0 kW:s motor brake torque	120 Nm
8.8 kW:s motor brake torque	170 Nm
13.0 kW:s motor brake torque	170 Nm

motor with EN 81-1 approved motor brake:

13.0 kW:s motor brake torque	130 Nm
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Electrical protection class: min. IP 55

Data on other voltages on request.

SURFACE TREATMENT

Structural parts (guide rail/mast sections, car frame, base frame and tie-ins):

- Hot dip galvanized

Car and enclosure panels:

- Anodized aluminium
- Stainless steel (for extreme environment)

Other parts:

- Hot dip galvanized
- Stainless steel

OPTIONAL FEATURES

- Platforms and stairs
- Communication
- Automatic rack lubricator
- Ventilation fan
- Extra ventilation
- Overload detection
- Automatic return to base, automatic alarm etc
- Windows in car
- PTC-detection in motor windings
- Heater in motor windings



Alimak AB, P.O. Box 720, SE-931 27 Skellefteå, Sweden. Tel. +46 910 87000. Fax +46 910 56690.