

ALIMAK SE-H & SE-H Ex

1.1

CAPACITY

Payload capacities:	2100 – 3200 kg
Average speed up/down at rated payload:	
Frequency control (VFC):	0.52 or 0.7 m/s
Max. lifting height with std. accessories:	125 m ¹

1. Depending on the optional equipment chosen

DIMENSIONS

Internal width:	1560 – 1820 mm
Internal length:	2600 – 3900 mm
Internal height:	2550 mm
Vertical door opening width:	1530 – 1790 mm
Door opening height:	2350 mm
Headroom required above landing:	5.0/5.4 m ¹
Min. required shaft dimension = Landing enclosure outside dimension	–
Mast section length:	1508 mm

1. 5000 mm = vertical bi-parting car door. 5400 mm = vertical full height car door.

CAR WEIGHT

Car weight	2950 – 3230 kg
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CONTROLS

Operation:	<ul style="list-style-type: none"> Collective / Selective. 2 – 16 landings
Separate power voltage:	230V AC / 110V AC
Control circuit voltage:	230V AC
Motor control:	Variable frequency control (VFC)

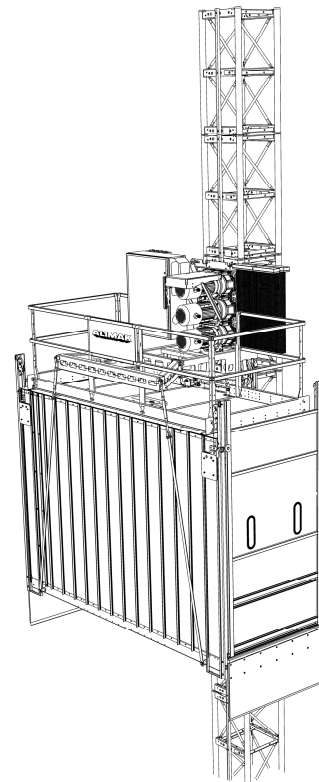


Fig B1

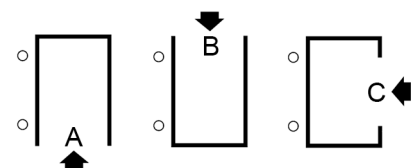


Fig B2
Car door configuration

1.2 ALIMAK SE-H Lifts VFC

Power supply 400V, 50 Hz. Load & car size according to EN81.

Table 3 Capacity and dimensions

Lift type	Car size	Speed at	No. of	Payload	Door opening
	w × l	50 Hz	pass.		width
	mm	m/s	EN	kg	mm
SE 2000	1560 × 2600	0.52	26	2000	1530
SE 2200	1560 × 2860	0.52	29	2200	1530
SE 2500	1560 × 3120	0.52	33	2500	1530
SE 2700	1560 × 3380	0.52	36	2700	1530
SE 3000	1560 × 3640	0.52	40	3000	1530
SE 3200	1560 × 3900	0.52	42	3200	1530
SE 2400	1820 × 2600	0.52	32	2400	1790
SE 2700	1820 × 2860	0.52	36	2700	1790
SE 3000	1820 × 3120	0.52	40	3000	1790
SE 2100	1560 × 2600	0.70	26	2100	1530
SE 2200	1560 × 2860	0.70	29	2200	1530
SE 2500	1560 × 3120	0.70	33	2500	1530
SE 2700	1560 × 3380	0.70	36	2700	1530
SE 3000	1560 × 3640	0.70	40	3000	1530
SE 3200	1560 × 3900	0.70	42	3200	1530
SE 2400	1820 × 2600	0.70	32	2400	1790
SE 2700	1820 × 2860	0.70	36	2700	1790
SE 3000	1820 × 3120	0.70	40	3000	1790

Table 4 Weights

Lift type	Car size w × l	Car weight excl. machinery ¹	Car weight incl. machinery ²
	mm	kg	kg
SE 2000/2100	1560 × 2600	2050	2950 (3280)
SE 2200	1560 × 2860	2110	3010 (3350)
SE 2500	1560 × 3120	2200	3100 (3440)
SE 2700	1560 × 3380	2255	3155 (3510)
SE 3000	1560 × 3640	2320	3220 (NA)
SE 3300	1560 × 3900	2270	3170 (NA)
SE 2400	1820 × 2600	2170	3070 (3440)
SE 2700	1820 × 2860	2225	3125 (3520)
SE 3000	1820 × 3120	2330	3230 (NA)

1. Stated weight for 1560 mm wide lift car including 2 pcs full height doors (200 kg) each.
Stated weight for 1820 mm wide lift car including 2 pcs full height doors (240 kg) each.
Reduce stated weight with one (× 1) or two (× 2) times 45 kg where bi-parting door(s) occur.
2. Car made of stainless steel in brackets ().

Table 5 Room required

Lift type	Car size w × l	Headroom required above top landing	Min. required shaft dimensions	Enclosure outside dimensions w × l ¹
	mm	m	mm	mm
SE 2000/2100	1560 × 2600	5.0 / 5.4	2760 × 2890	2.80 × 2.97 / 3.18
SE 2200	1560 × 2860	5.0 / 5.4	2760 × 3150	2.80 × 3.23 / 3.45
SE 2500	1560 × 3120	5.0 / 5.4	2760 × 3410	2.80 × 3.49 / 3.71
SE 2700	1560 × 3380	5.0 / 5.4	2760 × 3670	2.80 × 3.75 / 3.97
SE 3000	1560 × 3640	5.0 / 5.4	2760 × 3930	2.80 × 4.01 / 4.25
SE 3300	1560 × 3900	5.0 / 5.4	2760 × 4190	2.80 × 4.27 / 4.48
SE 2400	1820 × 2600	5.0 / 5.4	3020 × 2860	3.06 × 2.97 / 3.18
SE 2700	1820 × 2860	5.0 / 5.4	3020 × 3120	3.06 × 3.23 / 3.45
SE 3000	1820 × 3120	5.0 / 5.4	3020 × 3380	3.06 × 3.49 / 3.71

1. Single or Double leaf swing door(s) / Horizontal bi-parting sliding door(s).

Table 6 Speed and power

Lift type	Car size w × l mm	Speed at 50 Hz m/s	Power supply fuses A	Rated power kW	Starting current A A	Power kVA
SE 2000/ 2100	1560 × 2600	0.52	63	3 × 13	59	~ 36
SE 2200	1560 × 2860	0.52	80	3 × 13	62	~ 36
SE 2500	1560 × 3120	0.52	80	3 × 13	67	~ 40
SE 2700	1560 × 3380	0.52	80	3 × 13	70	~ 42
SE 3000	1560 × 3640	0.52	80	3 × 13	75	~ 45
SE 3200	1560 × 3900	0.52	80	3 × 13	77	~ 47
SE 2400	1820 × 2600	0.52	80	3 × 13	65	~ 39
SE 2700	1820 × 2860	0.52	80	3 × 13	70	~ 42
SE 3000	1820 × 3120	0.52	80	3 × 13	75	~ 45
SE 2100	1560 × 2600	0.70	100	3 × 16	81	~ 49
SE 2200	1560 × 2860	0.70	100	3 × 16	85	~ 51
SE 2500	1560 × 3120	0.70	100	3 × 16	93	~ 56
SE 2700	1560 × 3380	0.70	100	3 × 16	98	~ 59
SE 3000	1560 × 3640	0.70	125	3 × 16	105	~ 63
SE 3200	1560 × 3900	0.70	125	3 × 16	107	~ 65
SE 2400	1820 × 2600	0.70	100	3 × 16	89	~ 54
SE 2700	1820 × 2860	0.70	100	3 × 16	97	~ 59
SE 3000	1820 × 3120	0.70	125	3 × 16	105	~ 63

1.3 ALIMAK SE-H Lifts VFD

Power supply 400V, 50 Hz. Load & car size according to EN81.

Table 7 Capacity and dimensions

Lift type	Car size w × l mm	Speed at 50 Hz m/s	No. of pass. EN	Payload kg	Door opening width mm
Car and car doors of extruded aluminium panels					
SE-Ex 2200	1560 × 2860	0.64	29	2200	1530
SE-Ex 2500	1560 × 3120	0.54	33	2500	1530
SE-Ex 2400	1820 × 2600	0.54	32	2400	1790
Car and car doors of stainless steel					
SE-Ex 2000	1560 × 2600	0.54	36	2000	1530

Table 8 Weights

Lift type	Car size w × l mm	Car weight incl. machinery ¹ kg	Car weight excl. machinery kg
Car and car doors of extruded aluminium panels			
SE-Ex 2200	1560 × 2860	3900	NA
SE-Ex 2500	1560 × 3120	3860	NA
SE-Ex 2400	1820 × 2600	3850	NA
Car and car doors of stainless steel			
SE-Ex 2000	1560 × 2600	4050	NA

1. Stated weight for 1560 mm wide lift car including 2 pcs full height doors (200 kg) each.
Stated weight for 1820 mm wide lift car including 2 pcs full height doors (240 kg) each.
Reduce stated weight with one (× 1) or two (× 2) times 45 kg where bi-parting door(s) occur.

Table 9 Room required

Lift type	Car size	Headroom required above top landing	Min. required shaft dimensions	Enclosure outside dimensions
	w × l			w × l ¹
	mm	m	mm	m
Car and car doors of extruded aluminium panels				
SE-Ex 2200	1560 × 2860	5.0 / 5.4	2760 × 3150	2.80 × 3.23 / 3.45
SE-Ex 2500	1560 × 3120	5.0 / 5.4	2760 × 3410	2.80 × 3.49 / 3.71
SE-Ex 2400	1820 × 2600	5.0 / 5.4	3020 × 2860	3.06 × 2.97 / 3.18
Car and car doors of stainless steel				
SE-Ex 2000	1560 × 2600	5.0 / 5.4	2760 × 2890	2.80 × 2.97 / 3.18

1. Single or Double leaf swing door(s) / Horizontal bi-parting sliding door(s).

Table 10 Speed and power

Lift type	Car size w × l mm	Speed at 50 Hz m/s	Power supply fuses A	Rated power kW	Starting current A A	Power kVA
Car and car doors of extruded aluminium panels						
SE-Ex 2200	1560 × 2860	0.64	80	3 × 15	73	~ 44
SE-Ex 2500	1560 × 3120	0.54	80	3 × 15	77	~ 46
SE-Ex 2700	1820 × 2600	0.54	80	3 × 15	75	~ 45
Car and car doors of stainless steel						
SE-Ex 2000	1560 × 2600	0.54	80	3 × 15	73	~ 44

1.4 Common data

Mast section

GUIDE RAILS / MASTS

Type: Tubular steel with integrated rack

Section length 1508 mm

Alternative:	Type	Weight ¹	Tie-distance
	A50	110 kg	up to 24 m

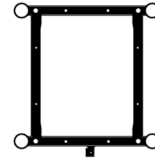


Fig B3

A. Square tube mast section type A50

1. tube dia. 76 × 4.2 mm

Electrical data

POWER SUPPLY

Voltage: VFC 380 – 500 V, 50/60 Hz

ELECTRICAL MOTOR

Type AC squirrel cage motor.

Electrical motor for regular SE lifts

Alternative: (kW at 25 % VFC 3 × 13 kW Star / 1 × 19 kW Delta
intermittent duty)

Electrical motor for SE-Ex lifts

Alternative: (kW at continuous VFC 3 × 15 kW, Delta (17.2 kW at 60
duty (100%)) Hz)

ELECTRICAL BRAKE

Type spring applied electromagnetic disc brake:

13.0 kW:s motor brake torque: 170 Nm

Electrical ingress protection class: minimum IP 54

Measured noise level in car less than ≤ 80 db(A)

Operating temperature range + 40 °C / – 20 °C

Surface treatment

Structural parts (mast, car frame):

- Hot dip galvanized

Car and enclosure panels:

- Anodized aluminium
- Stainless steel (for extreme environment)

Other parts:

- Hot dip galvanized
- Stainless steel

Optional features and others

- Platforms and stairs
- 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