

Safety, speed and control with your comfort in mind

Maximum benefits for all users

For lift passengers:

- Smooth starting and stopping
- Fluid movements
- Optimum speed (minimum travel time)
- Accurate stopping
- Silent operation

For the service technician:

- Communication tools adaptable to each application (PC, remote graphic display terminal and Simple Loader®)
- Ease of maintenance:
 - monitoring menu data includes distance travelled, number of journeys, etc.
 - diagnostics menu provides a list of faults and their context (lift car speed, line voltage, motor current, etc.)

For the building owner:

- Reduced machine wear due to fewer mechanical shocks
- Greater energy savings achieved by optimising drive power consumption

5 seconds

to duplicate your drive configuration with Simple Loader

Up to 50%

energy savings

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Due to possible changes in standards and equipment, the features described in this document in the form of text and images are subject to confirmation by Schneider Electric.

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Precision and durability for your lift applications



Altivar LIFT

Variable speed drives for synchronous and asynchronous motors (with or without encoder)

- 200/240 V range - 27 A to 66 A
- 380/480 V range - 10 A to 48 A

Schneider
Electric

Make the most of your energy

Tougher
More powerful
Safer



Acceleration and deceleration to the nearest millimetre

Plug & Play installation

- Dedicated Lift menu for installers
- Lift-specific units (kg, cm, m/s, m/s², etc.)

Communication tools

for customised setup:

- Remote graphic display terminal
- Multi Loader
- Simple Loader
- PowerSuite software

Hardware specially designed to:

- Handle the specific constraints of lift applications (repetitive starting/stopping, equipment power always on, control at 0 Hz, etc.)
- Comply with lift standards (EN 12015 and EN 12016 without external filter)
- Prevent vibration during operation (optimised current measurements)

All-round high performance

- Lift ramp allows simple adjustment for optimum comfort
- Passenger comfort on starting regardless of the type and age of lift (load measurement and rollback management)
- Wide choice of encoders for any type of motor
- Option to perform static angle test for synchronous motors on existing lifts

Integrated safety

- Power Removal® function certified for use with a single motor contactor



Remote communication - use the remote graphic display terminal to configure and communicate with the drive, even when the enclosure is closed.

Quick configuration and communication with PowerSuite software and Multi Loader. Configurations can be duplicated in just a few seconds using Simple Loader.



Carry out maintenance without interrupting operation

Synchronous open loop operation in degraded mode means, for example, that the lift car can be moved to a position of safety when the encoder is not operating.



6 languages available as standard

You can use your graphic display terminal to customise menus, create shortcuts using the function keys and save configurations, among many other things.

Selection guide

Altivar LIFT - 380...480 V - three-phase

Motor Nominal current	Altivar LIFT			Reference	Dimensions in mm (WxHxD)
	Maximum continuous current	Maximum transient current			
	380 V	460 V			
A	A	A	A		
10	10.5	7.6	14.3	ATV71LD10N4Z	175x295x161
14	14.3	11	19.4	ATV71LD14N4Z	175x295x161
17	17.6	14	23.9	ATV71LD17N4Z	210x295x187
27	27.7	21	37.7	ATV71LD27N4Z	230x400x187
33	33	27	44.9	ATV71LD33N4Z	230x400x187
48	48	40	65.3	ATV71LD48N4Z	240x550x230

Altivar LIFT - 200...240 V - three-phase

Motor Nominal current	Altivar LIFT			Reference	Dimensions in mm (WxHxD)
	Maximum continuous current	Maximum transient current			
	230 V				
A	A	A			
27	27.5	37.4		ATV71LD27M3Z	230x400x187
33	33	44.9		ATV71LD33M3Z	230x400x187
54	54	73.4		ATV71LD54M3Z	240x420x210
66	66	89.8		ATV71LD66M3Z	240x420x210

Technical characteristics

Lift function

Output contactor control
Output contactor feedback
Inspection mode
Half-floor control
Direct to floor
Brake control
Deferred thermal stop
Advanced detection of output phase loss
Adjustable noise level
Evacuation with inverter
Rollback management
External load measurement
Sheave protection
Optimised speed loop
Optimised ramp profile

Motor characteristics

Asynchronous open loop
Asynchronous closed loop
Synchronous open loop
Synchronous closed loop
Static motor parameter identification
Static angle test (synchronous motor)

Encoder characteristics

Incremental encoder
SinCos, SinCos EnDat, SinCos Hiperface, SSI
Resolver
Encoder signal emulation

Communication

Modbus
CANopen
Ethernet, Profibus, DeviceNet, etc.

Option cards

Encoder interface cards

RS 422 outputs, 5 V	VW3 A3 401
RS 422 outputs, 15 V	VW3 A3 402
Open collector outputs, 12 V	VW3 A3 403
Open collector outputs, 15 V	VW3 A3 404
Push-pull outputs, 12 V	VW3 A3 405
Push-pull outputs, 15 V	VW3 A3 406
Push-pull outputs, 24 V	VW3 A3 407
Resolver	VW3 A3 408
SinCos, SinCos Hiperface, EnDat, SSI	VW3 A3 409
Incremental with emulation RS422 outputs, 5 V or 15 V, with emulation	VW3 A3 411

I/O cards

Logic I/O	
1 x 24 V voltage output 1 x 10 V voltage output 1 relay logic output 2 open collector assignable logic outputs 1 input for up to 6 PTC probes	VW3 A3 201
Extended I/O	
Same as logic I/O card + 2 analog inputs 2 analog outputs 1 frequency control input	VW3 A3 202

Programmable cards

Controller Inside	VW3 A3 501
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Accessories

Remote graphic display terminal	VW3 A1 101
Simple Loader	VW3 A8 120
Multi Loader	VW3 A8 121
Modbus-Bluetooth® adaptor	VW3 A8 114

Software

PowerSuite	VW3 A1 104
Update	VW3 A8 105