

Swiss high quality with automatic testing

NEW PRODUCT 2010

# SECUR-3

product by Securlift

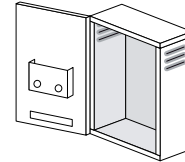
**SECUR 3 SYSTEM Mr**  
The ideal and most comfortable solution for any system, traction or hydraulic, when it is possible to have a machine room.



Authorized Securlift's distributor in Africa - Asia - East Europe - Oceania - South America

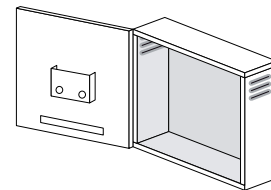
## TYPES

**Mini** - In this configuration all controller components are contained in only one cabinet of reduced dimensions. This cabinet is suitable for hydraulic installations which need minimum encumbrance. The option to include in the same space the main cabinet, allows its usage also in very small spaces, like the cabinet where the power unit is located.



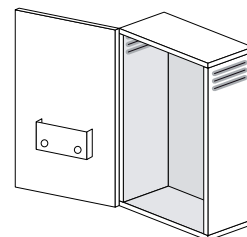
**Mini** (mm)  
L.658 x h.668 x D.271.2

**Midi** - In this configuration all controller components are contained in only one cabinet of medium dimensions. This cabinet is suitable for hydraulic installations with special options or for low-power traction installations. The option to include in the same space the main cabinet, allows its usage also in very small spaces, like the cabinet where the power unit is located.



**Midi** (mm)  
L.808 x h.668 x D.271.2

**Standard** - In this configuration all controller components are contained in one standard cabinet. This cabinet is suitable for medium or high power traction installations. On request, Securlift also provides special dimension cabinets.



**Standard** (mm)  
L.708 x h.998 x D.351.2



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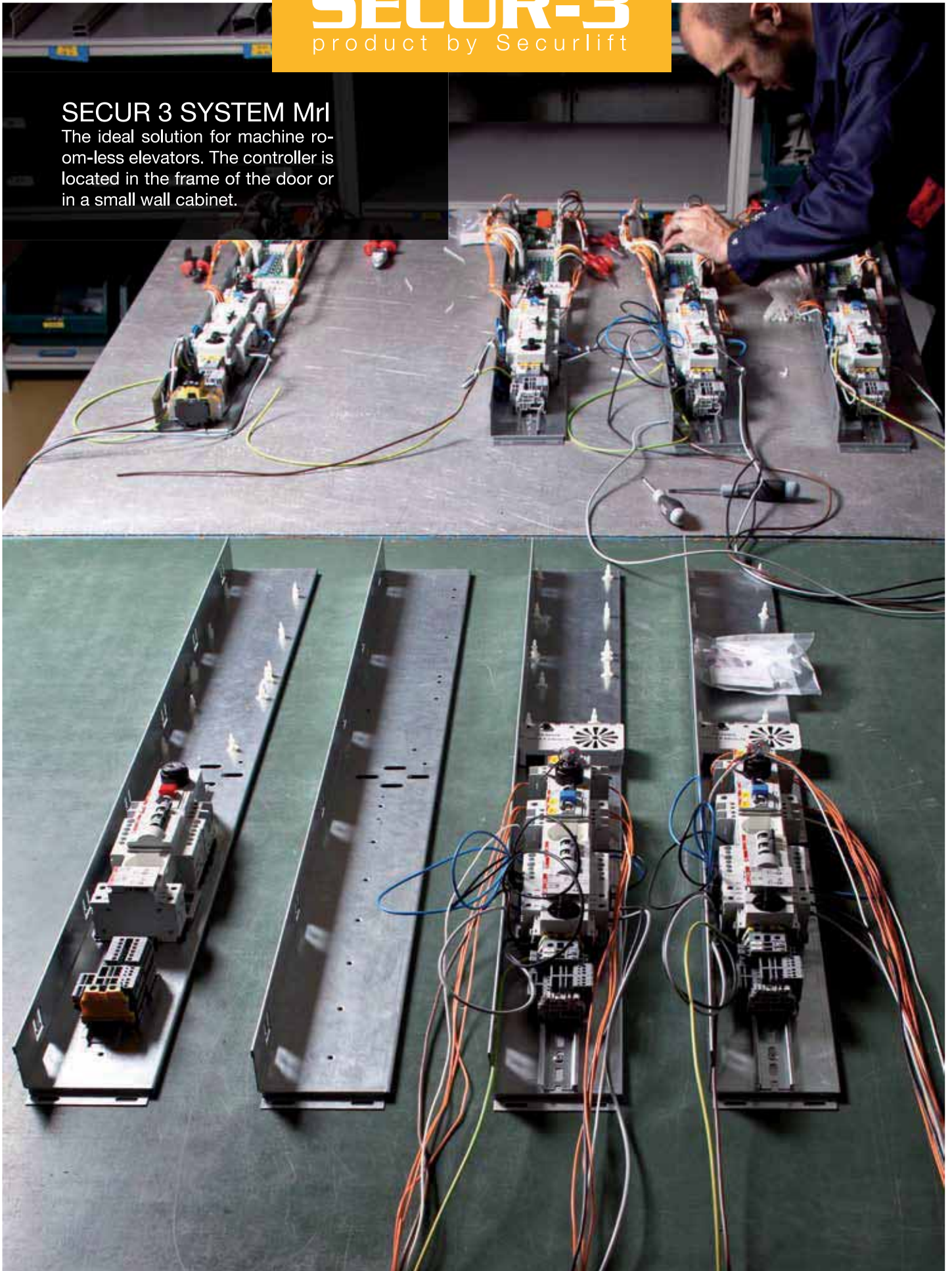
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# SECUR-3

product by Securlift

## SECUR 3 SYSTEM Mrl

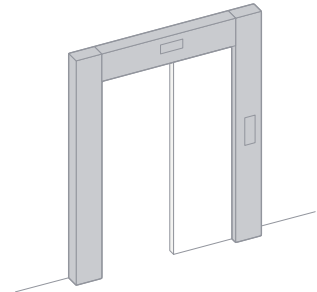
The ideal solution for machine room-less elevators. The controller is located in the frame of the door or in a small wall cabinet.



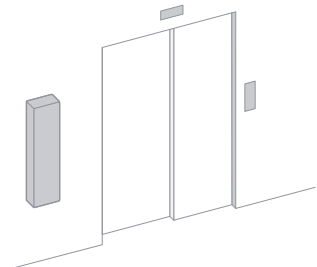
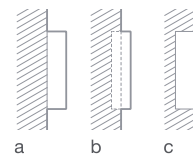
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## TYOLOGIES

**Door Front Assist** - In this configuration a Front Panel and a Power Box are supplied. The main electronic components, which need an interface with the technical staff, are placed on the Front Panel. The latter is prearranged to be located in the vertical door frames of the major European suppliers like Selcom / Wittur, Fermator Sematic and others. The Power Box, which is located in the shaft, contains the power components and other components which don't need interfacing with the technical staff.



**Wall Front Assist** - In this configuration a Front Panel with a Wall Cabinet and a Power Box are supplied. The main electronic components, which need an interface with the technical staff, are placed on the Front Panel. This will be inserted in the suitable cabinet supplied by Securlift, the Wall Cabinet; this cabinet is characterized by a neutral and modern design and by the possibility to be mounted either (a) with semi-embedment (b), total embedment or without embedment (c). The Power Box, which is located in the shaft, contains the power components and other components which don't need interfacing with the technical staff.



**FUNCTIONALITY****Universal Solution**

- For new installations and modernisations;
- For hydraulic and traction systems (1 or 2 speed and with VVVF);
- Suitable for asynchronous and brushless/gearless motors (with absolute and incremental encoder).

**High Quality Technology**

- Serial CAN BUS connection from the controller to the car, to the car/landing push button set, to the inverter and to the emergency;
- Battery drive opto-isolated safety circuit chain;
- USB connection to update the software and back-up the parameters (without PC);
- Emergency device with standard brake release for MRL gearless systems (optional rescuer for a full emergency);
- Speech unit and gong (EN81-70);
- Remote monitoring and automatic alarming by SMS;
- User access with iButton key and code (using the car operating panel);
- Self-learning of the shaft with digital system.

**User Interface Terminal**

Removable user interface unit for the diagnostic and to display and to set the parameters of the controller, the VVVF drive and the emergency battery drive. Possibility to define the access password.

**Pre-wired Components**

Pre-wired components for installations in shorter time. Included in the range of Securlift pre-wired supply are shaft components (magnetic contacts, magnets, shaft kit and fixing), travelling cable, shaft bundle and other components (maintenance push button sets, stop in pit, over race contacts, various connections, various carpentry and, on request, pre-wired shaft lighting).

**Universal Emergency Battery Drive**

This optional device performs an automatic emergency operation in case of power break by, once verified the safety conditions, bringing the car at a floor level (in the direction of the imbalance) and opening the doors.

This device can also be retrofitted to an existing system. This emergency battery drive regenerates from a normal lead battery set (60VDC) a three-phase power system (400 VCA, 50 Hz with nominal power 2.5 kVA), which supplies the controller.



## TECHNICAL DATA

### Basic specifications

- Modular system up to 32 floors (64 services)
- Microprocessor Fujitsu MB96F338U
- Serial transmission CAN (Controller Area Network) with speed up to 125 kbit/sec. Connection through CAN from controller to: car roof box, push button sets, floors, inverter and emergency battery drive

### Interfaces

- Removable user interface unit to display and to set the parameters of the controller, the VVVF drive and the emergency battery drive, with following functionalities:
  - SECUR 3 system parameters programming
  - Special functionalities (rescue drive, door commands, calls, etc.)
  - Fault codes and diagnostic visualisation
  - Date/time setting
  - Drive programming and diagnostic
- USB port to update the SW and backup the parameters
- Serial port to interface remotely or locally via PC locale o remota

### Drives

- Hydraulic lift:
  - Power units: all
  - Direct starting, star/delta starting, soft starter
- Traction lift:
  - Asynchronous motors
  - Gearless motors
  - AC 1 / 2 speed
  - V3F open loop (up to 1 m/s)
  - V3F closed loop (up to 2.5 m/s)

### Protections

- All the Secur 3 input/outputs are protected against:
  - over-voltage and short circuits
  - electro-magnetic interferences (according to EN standards)
  - motor temperature protection: thermistors or thermal relay
  - lack/reverse phase
  - max. run time
  - overload – full load

### Electrical specifications

- Power supply:
  - standard: 220V, 230V, 3ph. 380V, 400V – 50 Hz.
  - optional: monophase 220V, 230V, 240V, 3ph. 208V, 415V – 50/60Hz.
- Brake supply:
  - standard: 200 Vdc
  - opzional: any other voltage
- Valves supply:
  - standard: 48 Vdc
  - opzional: any other voltage
- Safety circuit with opt isolators:
  - standard: 110 VAC – 220 VAC

### Shaft positioning system

- Bistable - monostable magnetic switches
- Encoder (absolute or incremental)

### Logic

- Push button
- Down/up collective
- Multiplex (up to 4 lift group)

### Doors

- Automatic, semi-automatic, swing doors
- Single, double access
- Contemporary or selective door opening
- Parking either with opened or closed doors
- Door operators type: all

### Emergency devices

- Manual emergency device for lowering without doors opening (standard on MRL Gearless installation)
- Automatic emergency device for lowering and doors opening
- Auto-dialler device
- SMS automatic transmission in case of alarms

### Signalisations

- 24 VDV – max. 1W per output
- Gong / voice announcer in 4 languages (standard)
- car position indication: 1 wire per floor, 7 segment, dot matrix, LCD binary
- Other signalisation:
  - Car busy/coming
  - Car here
  - Car call registered
  - Landing call registered
  - Car direction
  - Hall lanterns - gong
  - Overload
  - Out of service
  - Fire recall/fireman's drive

### Options

- Overload and full load function
- Car priority
- Fire recall
- Fireman's drive
- Out of service function
- Short floor to floor distance
- Car light – timed fan
- Door pre-opening
- Floor access with code or iButton
- Remote management

### Norms

- EN81-1, EN81-2, EN81-21, EN81-28, EN 81-70, EN81-80; EN81-72 and others on request
- 95/16/CE
- Law 13 – DM 236
- Mark CE, directive 89/336/EEC e 93/68/EEC.
- EN 50081-1 (electro magnetic emissions) and EN 50082-2 (electro magnetic immunity)

Note: Technical data may change at any time



**ENGINEERINGlift®**  
EUROPE LIFT COMPONENTS

sales@engineeringlift.com  
www.engineeringlift.com

**Company name:** \_\_\_\_\_  
**Address:** \_\_\_\_\_  
**Person referent:** \_\_\_\_\_  
**e-mail:** \_\_\_\_\_

**Date:** \_\_\_\_\_  
**Quantity:** \_\_\_\_\_

## CONTROLLER

TYPE	<input type="radio"/> ROPE <input type="radio"/> HYDRAULIC <input type="radio"/> Only controller <input type="radio"/> with Shaft positioning equipment <input type="radio"/> with Travelling cables <input type="radio"/> with Pre-wired component	
Typology	<input type="radio"/> Microprocessor	
Speed	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> VVVF <input type="radio"/> Other... _____	
Handle	<input type="radio"/> Universal (APB) <input type="radio"/> Duplex <input type="radio"/> Simplex (down) <input type="radio"/> Duplo <input type="radio"/> Simplex (up-down)	
General feature	Stops: _____	Main supply voltage: <input type="radio"/> 220/230V 3 ph <input type="radio"/> 380V 3ph
	Travel (m): _____	<input type="radio"/> 400V 3ph <input type="radio"/> 415V 3ph
	HP: _____	Main supply frequency: <input type="radio"/> 50 Hz <input type="radio"/> 60 Hz
	Speed (m/s): _____	<b>ROPE:</b>
	Brake (Vcc): _____	Motor ventilation: <input type="radio"/> Not required
	Winch brand: _____	<input type="radio"/> M2-1ph - 230Vac
	Voltage (V): _____	<input type="radio"/> T3 - 3ph - main
	Rated Load (kg): _____	<b>HYDRAULIC:</b>
	Capacity (persons): _____	Motor ventilation: <input type="radio"/> Not required
	Motor rated current (A): _____	<input type="radio"/> OCH SC - 230Vac oil cooler (hydronic 300)
		<input type="radio"/> OCH RA - mains voltage 3ph oil cooler
	Controller cabinet: <input type="radio"/> STANDARD <input type="radio"/> MIDI <input type="radio"/> MINI <input type="radio"/> MRL	
Emergency devices	<input type="radio"/> NO <input type="radio"/> YES	
Side	Side A: floors _____	Side B: floors _____
Operator	Brand: _____ Voltage (V): _____	
	Operator with electric braking: <input type="radio"/> YES <input type="radio"/> NO	
	Operator with retring ramp: <input type="radio"/> YES <input type="radio"/> NO	
	Door safety option: <input type="radio"/> Photocell (brand: _____ ) <input type="radio"/> Curtain	
Hall lantern	<input type="radio"/> YES <input type="radio"/> NO	
Gong	<input type="radio"/> YES <input type="radio"/> NO	
Binary 7 Segment	<input type="radio"/> 1 wire per segment <input type="radio"/> 1 wire per floor	
<b>OPTIONALS</b>	<input type="radio"/> Push buttons: <input type="radio"/> slim <input type="radio"/> ex <input type="radio"/> se <input type="radio"/> 200 <input type="radio"/> 150/180	
	<input type="radio"/> Pre-wired shaft lighting <input type="radio"/> Machine room lighting	<input type="radio"/> Mains cabinets <input type="radio"/> Power cables <input type="radio"/> Trunkings

### MANUFACTURE

Made in SWITZERLAND

Company name SECURLIFT

### NOTE

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