

CONTROL PANEL ALTO[®]



SICOR ITALY
AN  **ELEVANTIS COMPANY**

sicoritaly.com



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Understanding the market,
anticipating its needs,
making them ours and
building our projects on them.



Founded in 1981 in Rovereto (Italy), SICOR has been a benchmark in the elevator industry for over forty years. Built on a solid engineering tradition and a continuous commitment to research and development, the company has earned an international reputation for reliability, innovation, and manufacturing excellence.



Today, as part of the ELEVANTIS Group, SICOR is ready to embrace new challenges and evolve beyond its historical role as a component manufacturer-becoming a provider of integrated and innovative solutions for the entire elevator supply chain.

Within this new vision, the company has expanded its product portfolio to include control panels, elevator doors, and safety devices, designed to work seamlessly alongside its well-established range of geared and gearless machines. The goal is to deliver complete, high-performance, and interconnected systems that simplify integration, enhance operational efficiency, and ensure maximum safety.

Every product is developed and tested within a certified quality system, ensuring reliability, traceability, and long-term performance across all production phases-from design to final testing.

With a forward-looking mindset, SICOR now positions itself as a technological partner for the elevator industry, combining industrial experience and digital innovation to provide solutions that anticipate the needs of tomorrow's mobility.

System Description

ALTO control panel, an integral part of the **ELEVANTIS** ecosystem, is a fully **pre-wired elevator control system** featuring **CAN-BUS serial communication** for both car and landing components.

Engineered for maximum versatility and reliability, ALTO is capable of managing:

- **Up to 64 stops**
- **Up to 3 car entrances**, even with different door types or drive mechanisms, supporting simultaneous or selective openings
- **Simplex and multiplex systems** (up to 8 elevators)
- **Speeds** of up to **3.5 m/s**

Thanks to its flexible architecture, ALTO is ideal for

both **new installations** and **modernizations of existing systems** - machine room or machine roomless.

It supports:

- **Permanent magnet synchronous or asynchronous motors**, in both open-loop and closed-loop configurations
- **Full compatibility** with all encoder feedback protocols

ALTO[®]

Key Features

The ALTO system is engineered for maximum efficiency and ease of installation, featuring a fully pre-wired structure and peripheral connections designed to minimize errors and reduce setup time.

- **Simplified wiring**: a single flexible cable connects the control panel to the car, regardless of the number of stops, entrances, or required functions.
- **Guided startup** for full system configuration and commissioning.
- **ELGO LIMAX1CP-Safety absolute encoder** ensures precise, certified cabin positioning.
- **Multilingual guided calibration** with both voice and written prompts.
- **Integrated EN81.28-compliant auto-dialer**, supporting VOIP, GSM, Wi-Fi, BLE, text-to-speech, and firefighter operation.
- **Always-connected system** with firmware updates available online or offline via the ELEVANTIS app.
- **Remote support made easy** thanks to an always-accessible digital twin.



Interface & Diagnostics

- **5" capacitive touch HMI** with an intuitive menu interface.
- **Advanced safety chain diagnostics** on all contacts.
- **Multilingual menu system**, automatically available through geolocation and interface customization.
- **CAN-OPEN 417 protocol**, fully compatible with third-party devices.

Maintenance & Support

- **Built-in** predictive and preventive **maintenance algorithms**.
- **Certified trip counter** for use with ropes outside standard EN81.20 compliance (in accordance with rope certification).
- **Automated email reporting** for maintainers and administrators, with adjustable scheduling.
- **Push notification system** for real-time maintenance alerts.
- **Support app** available for both iOS and Android devices.

Technical Specifications

Basic Specifications

Modular system supporting up to **64 stops**

Communication	CAN-OPEN 417
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Call Management

Attendant operation (Machine Directive compliant)

Universal

Collective up/down

Multiplex (up to 8 elevators)

Doors

Automatic, semi-automatic, manual

Single, double, and triple access

Simultaneous and selective opening

Parking with doors open or closed

Compatible with all car door operators

Car-mounted electric retiring cam

Landing door electric interlock

Electrical Specifications

Main Supply Voltage

Standard:

Three-phase	208V, 220V, 230V, 380V, 400V, 415V - 50-60 Hz
Single-phase	110V, 208V, 220V, 230V, 240V - 50-60 Hz

Safety Circuit Voltage with Opto-isolators

Standard	48V AC
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Brake Voltage

Standard	207V DC
Multi tension	24V-48V-60V-120V

Built-in features

Overload and full load detection

Low levelling (15mm)

Pre-opening

Car/landing call priority

Out of service mode

Adjustable time cabin light and fan

Fire recall

Firefighter operation

Visitor mode

Floor access via code or electronic key

Automatic shaft light control

Technical Specifications

Positioning Systems

Digital shaft with inverter and landing sensors

LIMAX1CP device with magnetic tape (SIL 3)

Emergency Devices

Automatic emergency return to floor with door opening

Automatic emergency return with brake release for unbalanced movement (brushless motors only)

Integrated **EN81.28**-compliant auto-dialer

Signals and Indicators

24VDC outputs – 1W per output

Occupied / arriving indicators	Car presence
	Car call registration
	Landing call registration
	Car direction
	Next departure – gong

Car position indication options	1 wire per floor
	7-segment display
	Binary code
	Gray code
	Binary LCD
	CAN Open

Additional status indicators	Overload
	Out of service
	Emergency
	Firefighter/fire mode

Multilingual voice announcer

Protections

All inputs and outputs are protected against:

Overvoltage and short circuits

Electromagnetic interference (EN standards compliant)

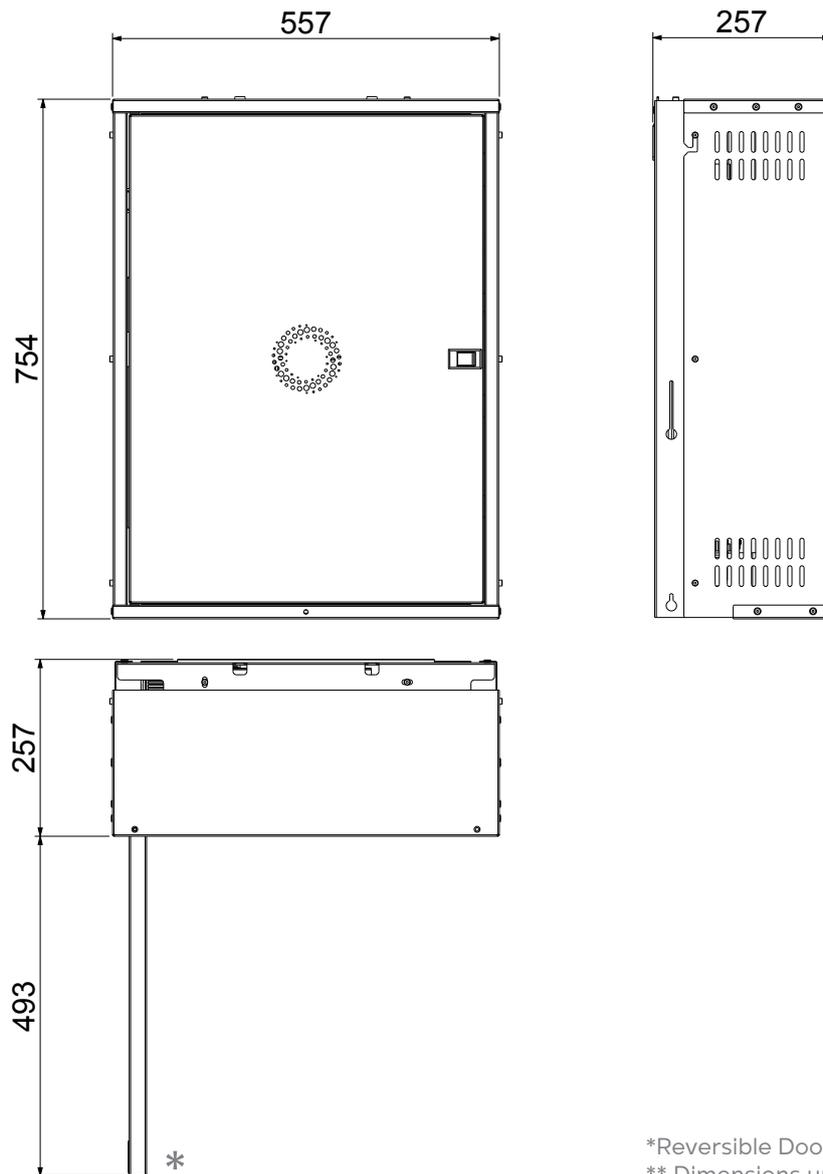
Motor temperature (via thermistors or thermal relays)

Phase loss/inversion

Cabinet all in one suitable for **Machine Room application**



DIMENSIONS (mm)**



*Reversible Door
 ** Dimensions up to 15 kW

ALTO[®] MRL INWALL + HPU

In Wall application

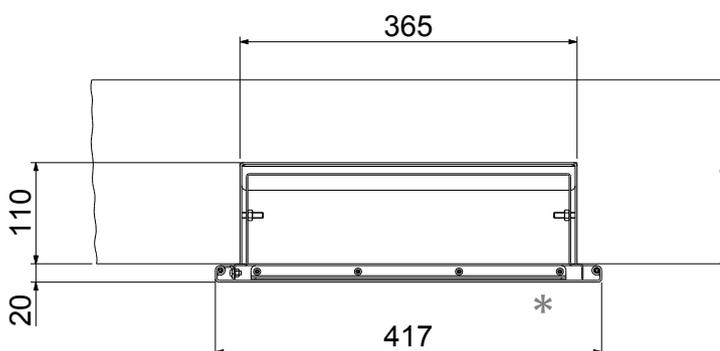
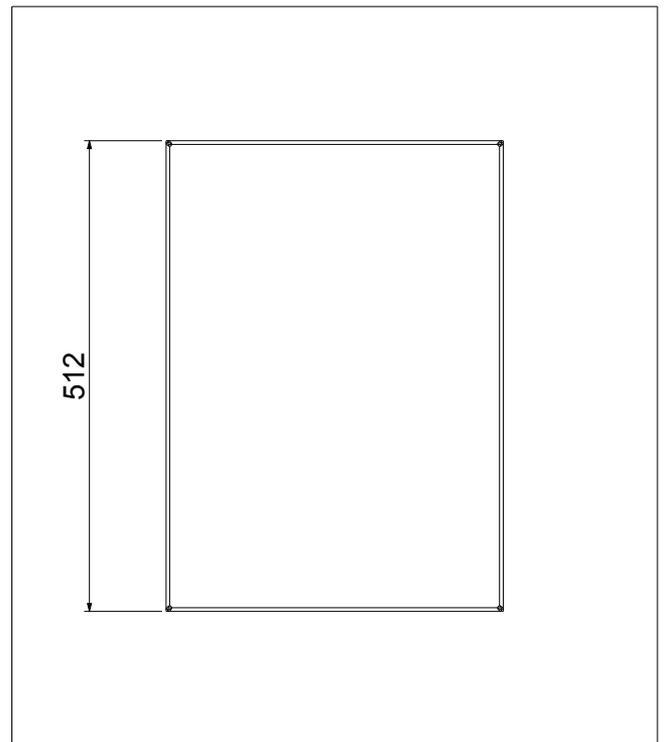
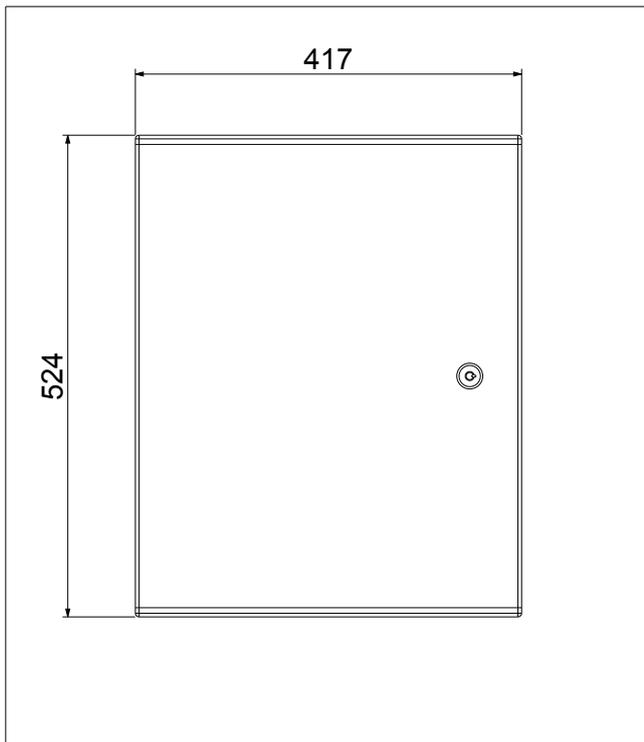
Application splitted in two parts.

Logic control on the landing wall and power unit in the headroom.



HPU

DIMENSIONS (mm)



*Reversible Door

ALTO® MRL BOX FRAME SLIM + HPU

Box frame slim application

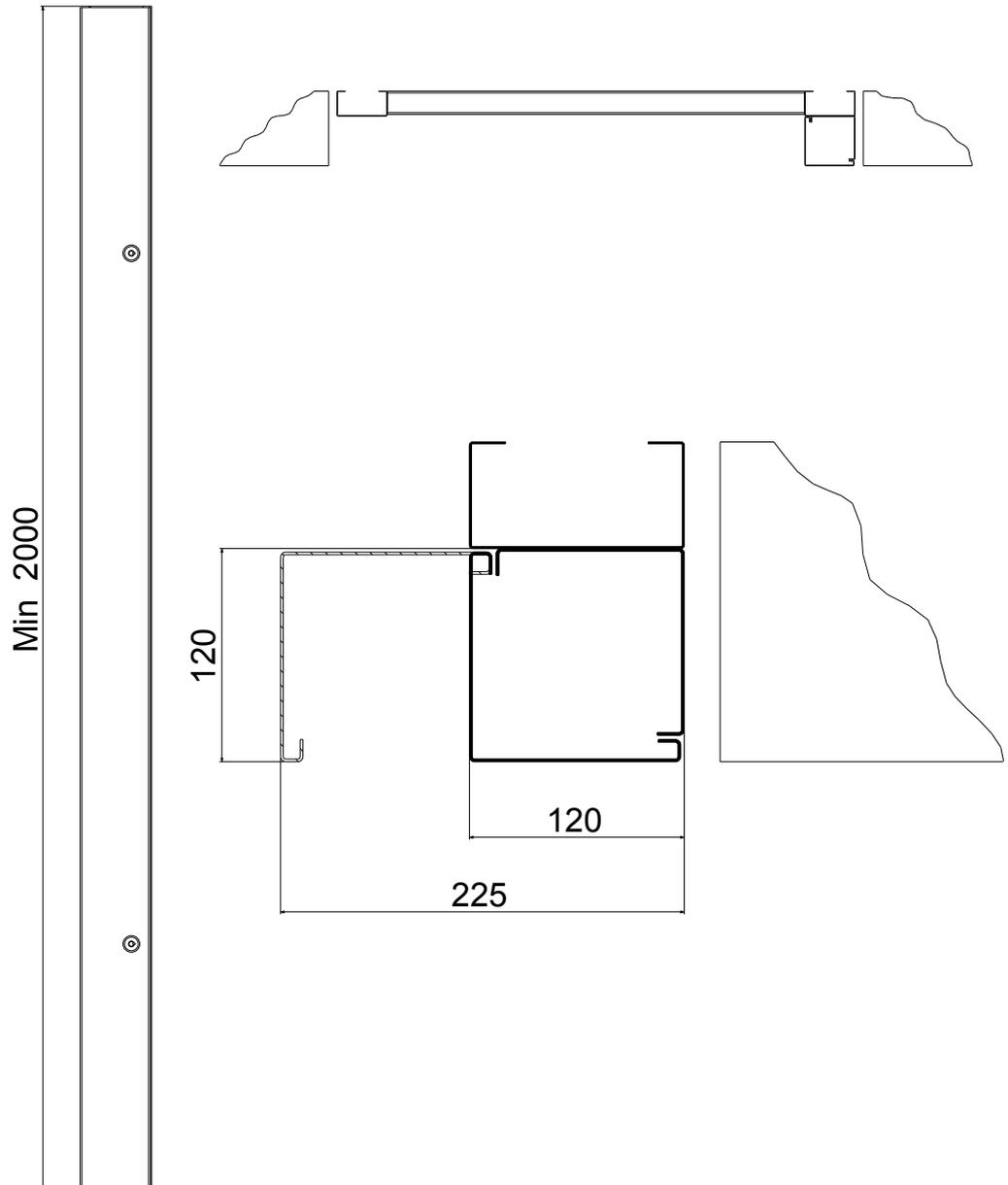
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HPU

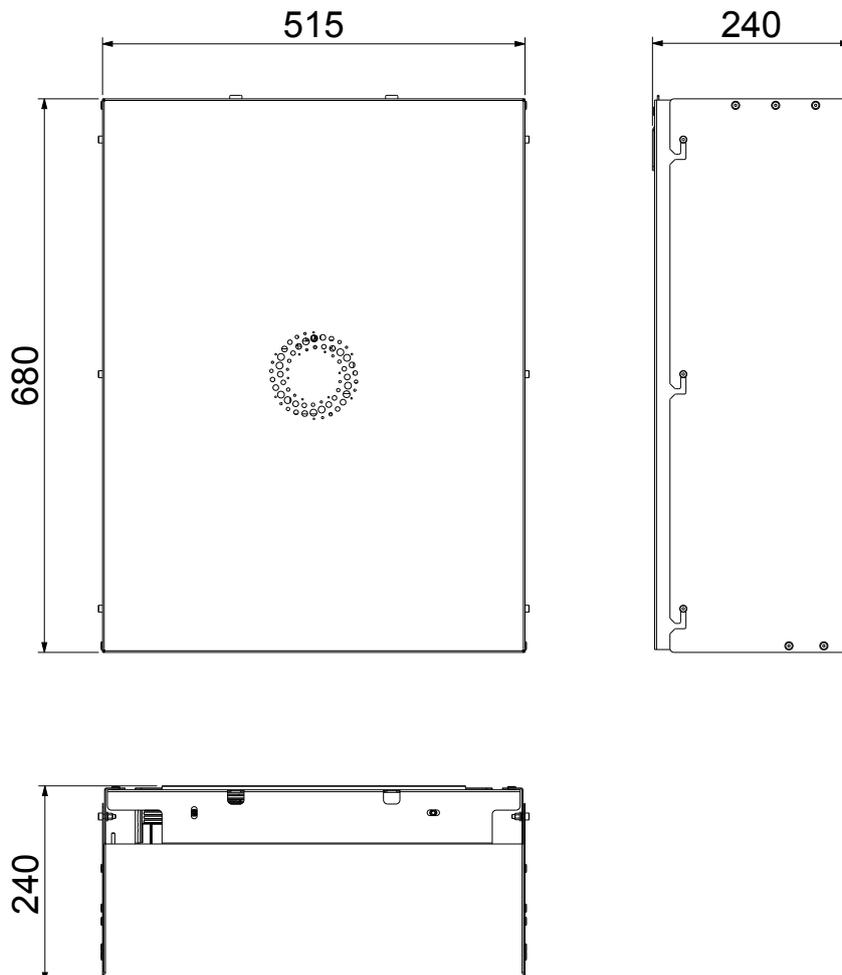
DIMENSIONS (mm)



Up to 15 kW



DIMENSIONS (mm)





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Products' specifications included in this brochure are subject to change by Sicor without notice.