

Compact, simple, economical.



The i510 protec is the new inverter series in the 0.5 to 7.5 hp (0.37 to 5.5 kW) power range. Its distinguishing features: a slim design, functionality and exceptional user-friendliness.

The i510 protec is designed for motor applications where dynamic speed and torque control is demanded, making the units ideal for many applications like conveyors, packaging equipment plus fan and pump systems.

Based on the established hardware and software of the i500 cabinet inverters — this means same drive functionality and user interaction.

Highlights

- Ingress protection up to IP31 (NEMA 1) with protection against contact, condensation and vertically falling drops of water. This allows for use inside or outside the control cabinet.
- Sensorless synchronous motor control
- Intuitive user interface for fast setup and an easy navigation parameter structure
- EPM module for simple series commissioning and device replacement
- Optionally equipped with keypad or WLAN diagnostic module

This is how easy it is to integrate i510 protec

Three set-up methods

Thanks to Lenze's engineering philosophy, the high functionality is still easy to grasp. Simple programming for any application level — simple to complex.

The following diagnostic interfaces are offered:

Keypad

If it's only a matter of setting a few key parameters such as acceleration and deceleration time, this can be done quickly on the keypad.

Smart keypad app

It is easily adapted for simple applications such as conveyor belts using the intuitive smartphone app for Android or iOS-based operating systems.

EASY Starter

If complex functions such as holding brake control, vector mode, fieldbus parameter mappings etc. need to be set.

Technical data

Mains	1 AC 120 V	0.5 ... 1.0 hp 0.37 ... 0.75 kW
	1 AC 230 V	0.5 ... 3 hp 0.37 ... 2.2 kW
	1/3 AC 230 V	0.5 ... 3 hp 0.37 ... 2.2 kW
	3 AC 230 V	4 ... 5 hp 3 ... 4 kW
	3 AC 400 V 3 AC 480 V	0.5 ... 7.5 hp 0.37 ... 5.5 kW
Overload current	Mode S1: 150 %, mode S6: 200 %	
Interfaces	Digital inputs/outputs (5/1), analog inputs/outputs (2/1) Relay	
	External 24 V supply	
	CANopen, Modbus RTU	
Approvals	CE, UL, CSA, EAC, RoHS2, IE2 in accordance with EN 50598-2	
Functions	V/f characteristic control linear/quadratic (VFC plus) Sensorless vector control (SLVC) Energy saving function (VFC-Eco) Sensorless vector control for synchronous motors	
	DC braking Brake management for low-wear brake control	
	S-ramps for smooth acceleration and delay Flying restart circuit, PID controller	