

Compact, simple, economical.



The i510 protec is an inverter series designed for the North American market in the 0.37 ... 7.5 kW (0.5 hp ... 10 hp) power range. Its distinguishing features: a slim design, functionality and exceptional user-friendliness.

It is ideal for many applications such as conveyor systems, packaging machines, fan drives and pump systems.

i510 protec uses the same tried-and-tested technology used in the i510 cabinet and only differs in terms of a higher degree of housing protection with an adapted design.

Highlights

- Protection class IP20 (NEMA 1)
In UL-approved systems this provides protection against contact, ingress of solid foreign objects (falling dirt) and vertically falling drops of water. This allows for use inside or outside the control cabinet.
- Sensorless vector control for synchronous motors
- 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, USB or WiFi 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. Parameterization and commissioning are impressive thanks to clear structure and simple dialogs, leading to the desired result quickly and reliably.

- 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 functions such as the motor potentiometer or sequence control for a positioning application need to be set, it's best to use the EASY Starter engineering tool.



Technical data

i510 protec		
Mains	1 AC 120 V	0.37 ... 0.75 kW 0.5 ... 1 hp
	1 AC 230 V	0.37 ... 3 kW 0.5 ... 4 hp
	1/3 AC 230 V	0.37 ... 3 kW 0.5 ... 4 hp
	3 AC 230 V	3 ... 5.5 kW 4 ... 7.5 hp
	3 AC 400 V/3 AC 480 V	0.75 ... 7.5 kW 1 ... 10 hp
Overload behavior		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
Conformity and approvals		CE, UL, CSA, EAC, RoHS2, IE2 in accordance with EN 50598-2
Functions		V/f characteristic control linear/square-law (VFC plus) Sensorless vector control (SLVC) Energy saving function (VFC eco) Sensorless vector control for synchronous motors
		DC-injection braking Brake management for brake control with low rate of wear
		S-ramps for smooth acceleration and delay Flying restart circuit, PID controller