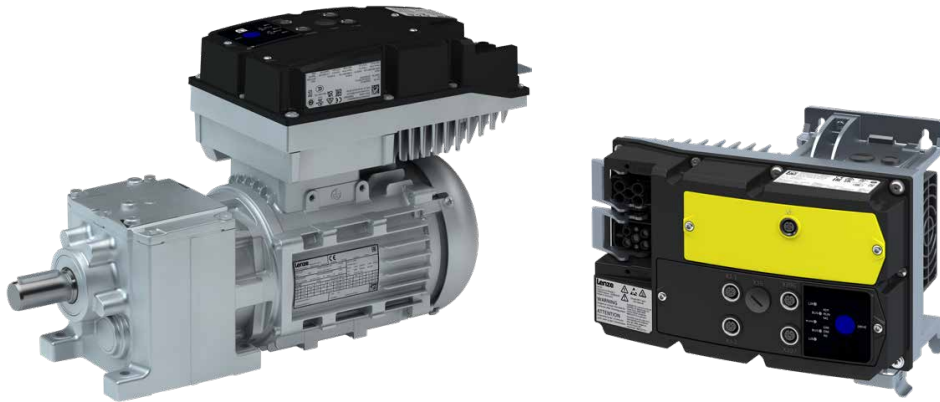


Creating Smart Drive Solutions



The i550 motec frequency inverter in the power range of 0.50 ... 7.5 hp (extension up to 40 hp planned) for motor and wall mounting in protection class NEMA 4X is the optimal decentralized drive solution.

Fast mounting and easy commissioning thanks to user-friendly tools as well as connections for commercially available connectors are the focus of this inverter.

Parameters, drive behavior and usability correspond to our proven frequency inverters. Rounded off by high energy efficiency, we thus offer a modern and sustainable drive solution.

Highlights

- Compact solution for decentralized drive technology, wall-mounted or motor-mounted
- High NEMA 4X protection class for universal use even in harsh environments
- Fast mounting due to pluggable, standardized connections (plug & play)
- IO-Link master functionality for easy data exchange between IO-Link sensors and actuators
- Regenerative feedback mode integrated for very high energy efficiency - no brake resistor required

Product information

i550 motec frequency inverter

i550 motec *	
Design/mounting	
	Wall or motor
Degree of protection	
	NEMA 4X
Mains connection/power range	
1 AC 230 V	-
3 AC 230 V	0.50 ... 20 hp
3 AC 480 V	0.50 ... 40 hp
Market approvals	
Approval	CE, UKCA, UL, CSA, CCC, UKSepr
Environment	RoHS
Energy efficiency	IE2 according to EN IEC 61800-9-4
Functions	
Motor control	Energy-saving function (VFC eco), V/f characteristic control linear/square-law (VFC plus), sensorless vector control (SLVC), sensorless control for synchronous motors Motor HTL encoder 200 kHz or other encoder with IO-Link interface
Properties	DC-injection braking, brake management for low-wear brake control, S-ramps for smooth acceleration and deceleration, flying restart circuit, PID control, cascade function for pumps and fans Dynamic braking through regeneration IO-Link master functionality
Functional safety	Safe torque off (STO) Extended Safety (planned)
Overload behavior	
	200% for 3s; 150% for 60s
Cooling	
	Ambient operating temperature: 3K3 (-14 ... +60 °F) EN IEC 60721-3-3 (derating of 2.5 %/°C above +113 °F)
Inputs/outputs	
Digital input/output	4/0, 3/1 or 2/2 (configurable)
Analog input/output	-
NO/NC relay	-
Communication	
	EtherCAT EtherNet/IP Modbus-TCP PROFINET
Diagnostic	
	USB, RFID (planned), WLAN (planned)
Compliances	
EN 61000-3-2	No additional measures
EN 61000-3-12	
EMC category C1	Motor mounting
EMC category C2	Max. 400 in
RCD operation	
	Up to 40 hp: 30 mA

* i550 motec up to 7.5 hp (3 ph/480 V) and 4 hp (3 ph/230 V) with PROFINET communication will be available by mid-2022. Additional functionalities will be available in the course of 2023.