

Creating Smart Drive Solutions



The i550 motec frequency inverter for motor and wall mounting in protection class IP66 is the optimal decentralized drive solution. The inverter can be extended with an extension box (disconnect switch, operating elements) for universal use.

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.

The requirements of the Ecodesign Directive, Standard EN 50598-2, are met.


Application areas: Conveyor drives, traveling drives, winding drives, hoist drives, extruders, packaging machines, pumps, fans, ...

Highlights

- Compact solution for decentralized drive technology, wall-mounted or motor-mounted with high IP66 protection
- Wall-mounted expandable: Extension Box with disconnect switches and operating elements
- 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	IP66
Mains connection/Power range	
1 AC 230 V	-
3 AC 230 V	0.37 ... 22 kW
3 AC 400 V	0.37 ... 45 kW
Market approvals	
Approval	CE, UKCA, UL, CSA
Environment	RoHS
Energy efficiency	IE2 according to EN IEC 61800-9-2
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 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
Functional safety	Safe torque off (STO)
	Extended Safety (planned)
Overload behavior	
	200 % for 3 s; 150 % for 60 s
Cooling	
Ambient operating temperature	3K3 (-30 ... +60 °C) EN IEC 60721-3-3 (derating of 2.5 %/°C above +40 °C)
Inputs/Outputs	
Digital input/output	Max. 8/0 or 4/4 (configurable)
Analog input/output	-
NO/NC relay	-
IO-Link	
Operation	Master
Ports	Max. 4
Communication	
	EtherCAT EtherNet/IP Modbus TCP PROFINET
Diagnostics	
	USB RFID, WLAN (planned)
Operating conditions	
EN 61000-3-2	No additional measures
EN 61000-3-12	
EMC category C1	-
EMC category C2	Max. 10 m
RCD operation	
	Up to 45 kW: 30 mA