## Creating Smart Drive Solutions







The i550 motec frequency inverter for motor and wall mounting in protection class NEMA 4X 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 userfriendly 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, wallmounted or motor-mounted with high NEMA 4X (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



	i550 motec
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Design/Mounting	Well-accepted
	Wall or motor
Degree of protection	AIFALA AV/IDCC)
Maina anno artico (Danna na an	NEMA 4X (IP66)
Mains connection/Power range	
1 AC 230 V	
3 AC 230 V	0.5 20 hp / 0.37 22 kW
3 AC 400 V	0.5 60 hp / 0.37 45 kW
Market approvals	CE LIVEA LIL CCA
Approval	CE, UKCA, UL, CSA
Environment  Enorgy officional	RoHS
Energy efficiency Functions	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	3K3 (14 +60 °F) EN IEC 60721-3-3
temperature	(derating of 2.5 %/°C above +104 °F)
Inputs/Outputs	M. 0/0 . 4/4/ (* h.l.)
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	Tano, no at (parineo)
EN 61000-3-2	
EN 61000-3-2 EN 61000-3-12	No additional measures
EMC category C1	- May 400 in
EMC category C2	Max. 400 in
RCD operation	H. (A) 22 4
	Up to 60 hp: 30 mA

