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# Frequency inverter

0.25 ... 132 kW



# Lenze inverter – universally applicable

A multifunctional solution for all applications - just another way to perfectly describe the frequency inverter. Thanks to a high number of integrated functions, network interfaces and a simple parameter setting, the inverter is suitable for both mechanical engineering and machine construction.

Lenze inverters are an important component in modern drive solutions which range from the cloud via control systems to motors and geared motors.

## Typical application fields

- Textile machines
- Materials handling technology
- Packaging technology
- Forming technology
- Commercial HVAC (pumps, fans, and compressors)
- Construction machines
- Access control
- And many more

## Features

- The modular and scalable concept allows for the selection of the right inverter required for the respective application.
- The compact design allows an efficient installation for applications where space means money.
- Energy efficiency and high functionality

## The benefits for you

- Lower investment costs
- Less control cabinet space
- More productivity
- More time for innovation
- Sustainability
- Reliability

# Features at a glance

## Compact design



In mechanical engineering and machine construction, space is limited and expensive. Thus, Lenze inverters are extremely compact to implement solutions and save costs.

The i510 cabinet and i550 cabinet frequency inverters impress due to a space-saving design with a width of 60 mm (up to 4.0 kW) and a depth of just 130 mm (up to 11 kW). Moreover, the devices can be mounted directly next to each other without derating.

## Flexibility



Lenze offers one of the most comprehensive solution portfolios for mechanical engineering and machine construction.

No matter which power, mains voltages, communication interfaces, or diagnostics options – our product range has the right solution optimized for the requirement.

## User-friendliness



Many small details in the device facilitate handling and significantly reduce the time required for installation, commissioning, and service. These include voltage-free parameterization, simple menu navigation, practical factory settings, and pluggable connections.

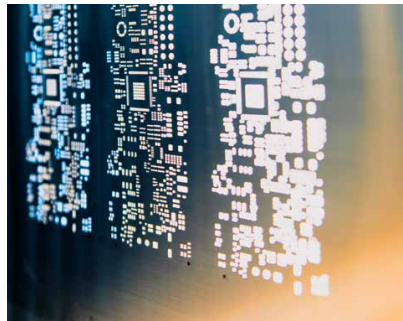
## Centralized/ decentralized



Many machines provide enough space for a compact frequency inverter such as the i510 cabinet or i550 cabinet.

In many applications, a mixture of centralized and decentralized drive technology is advisable. Fortunately, all Lenze frequency inverters show the same drive behavior.

## Innovative



Innovative functions for a safe operation. Two examples:

Easy engineering and reduction of system costs by the integrated IO-Link master functionality of the i550 motec.

Regenerative energy feedback by the i550 motec in case of dynamic braking reduces energy consumption. This simplifies engineering and saves the cost of a brake resistor.

## Energy-efficient



Lenze inverters comply with the Ecodesign Directive, achieve the lowest possible energy losses, and thus ensure optimum efficiency in system design.

# Scaled portfolio for machines

Competitiveness in machine equipment building is becoming increasingly challenging due to rising requirements in terms of energy efficiency, machine intelligence, and market needs, along with a shortage of skilled personnel and cost pressure. Lenze frequency inverters rise to these challenges.

The Lenze EASY Product Finder helps you to configure your required frequency inverter type in next to no time. In addition, you can retrieve all important technical details such as data sheets, CAD data, and EPLAN data.



# i510 cabinet

The i510 cabinet frequency inverter is a compact control cabinet device with scalable functionality. It is versatile, reliable, and easy to use.

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

Application areas: Conveyor drives, traveling drives, pumps, fans, ...

Overview				
Power range	0.25 ... 15 kW			
Mains connection	1 x 230 V	3 x 230 V	3 x 400 V	3 x 480 V
Degree of protection	IP20			
Communication	CANopen, Modbus RTU			

## Highlights

- Space saving design: 60 mm wide (up to 4 kW), 130 mm deep (up to 11 kW), with zero-clearance mounting
- Innovative interaction (e.g. over WLAN) makes new record-breaking commissioning times and convenient diagnostics a reality
- Special user-friendliness



# i550 cabinet

The i550 cabinet frequency inverter is a compact control cabinet device with scalable functionality. It is versatile, reliable, and easy to use.

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, ...

Overview					
Power range	0.25 ... 132 kW				
Mains connection	1 x 120 V	1 x 230 V	3 x 230 V	3 x 400 V	3 x 480 V
Degree of protection	IP20				
Communication	CANopen, EtherCAT, EtherNet/IP, Modbus RTU, Modbus TCP, Powerlink, PROFIBUS, PROFINET				

## Highlights

- Space saving design: 60 mm wide (up to 4 kW), 130 mm deep (up to 11 kW), with zero-clearance mounting
- Innovative interaction (e.g. over WLAN) makes new record-breaking commissioning times and convenient diagnostics a reality
- Optionally available with "Safe Torque Off (STO)" with SIL 3 (EN IEC 62061/ EN IEC 61508) and Performance Level e (EN ISO 13849-1)
- For the greatest possible flexibility available as a complete device or in individual parts (Power Unit, Control Unit and Safety Unit)





# i550 protec

The i550 protec frequency inverter uses the same tried-and-tested technology used in control cabinet inverters and only differs in terms of a higher degree of housing protection and an adapted design. If there is not enough space in the control cabinet or the inverter has to be mounted close to the motor in various machine modules, then this versatile and reliable device is the right solution. Thanks to the extension box, a disconnect switch and operating elements can be used.

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, ...

Overview						
Power range	0.37 ... 75 kW					
Mains connection	1 x 120 V	1 x 230 V	3 x 230 V	3 x 400 V	3 x 480 V	3 x 600 V
Degree of protection	IP55/IP66					
Communication	CANopen, EtherCAT, EtherNet/IP, Modbus RTU, Modbus TCP, PROFINET					

## Highlights

- Decentralized drive with IO-Link interface V1.1.
- Integrated diagnostic interface (micro USB) for service purposes
- Versions with or without disconnect switch, with keypad or WLAN module for easy commissioning
- Optionally available with "Safe Torque Off (STO)" with SIL 3 (EN IEC 62061/EN IEC 61508) and Performance Level e (EN ISO 13849-1)



# i550 motec

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, ...

Overview			
Power range	0.37 ... 45 kW		
Mains connection	3 x 230 V	3 x 400 V	3 x 480 V
Degree of protection	IP66		
Communication	EtherCAT, EtherNet/IP, Modbus TCP, PROFINET		

## Highlights

- Compact solution for decentralized drive technology, wall-mounted or motor-mounted with high IP66 protection
- Wall-mounted expandable: Extension Box with disconnect switch 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



	i510 cabinet	i550 cabinet	i550 protec	i550 motec
				
<b>Design/Mounting</b>	Control cabinet	Control cabinet	Wall	Wall or motor
<b>Degree of protection</b>	IP20	IP20	IP31, IP55/66	IP66
<b>Mains connection/Power range</b>				
<b>1 AC 230 V</b>	0.25 ... 2.2 kW	0.25 ... 2.2 kW	0.37 ... 2.2 kW	-
<b>3 AC 230 V</b>	0.25 ... 5.5 kW	0.25 ... 5.5 kW	0.37 ... 45 kW	0.37 ... 22 kW
<b>3 AC 400 V</b>	0.37 ... 15 kW	0.37 ... 132 kW	0.37 ... 75 kW	0.37 ... 45 kW
<b>Market approvals</b>				
<b>Approval</b>	CE, UKCA, UL, CSA, CCC, UKSepro			CE, UKCA, UL, CSA
<b>Environment</b>	RoHS			
<b>Energy efficiency</b>	IE2 according to EN IEC 61800-9-2			
<b>Functions</b>				
<b>Motor control</b>	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 100 kHz	Motor HTL encoder 100 kHz	Motor HTL encoder 200 kHz or IO-Link interface
<b>Properties</b>	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			
	Sequencer (16 steps), operation on UPS			-
	-	Dynamic braking through resistor	Dynamic braking through resistor	Dynamic braking through regeneration
<b>Functional safety</b>	-	Safe torque off (STO)		Extended Safety (planned)
<b>Overload behavior</b>	200% for 3s; 150% for 60s			
<b>Cooling</b>				
<b>Ambient operating temperature</b>	3K3 (-10 ... +60 °C) EN IEC 60721-3-3 (derating of 2.5 %/°C above +45 °C)	3K3 (-10 ... +60 °C) EN IEC 60721-3-3 (derating of 2.5 %/°C above +45 °C)	3K3 (-30 ... +60 °C) EN IEC 60721-3-3 (derating of 2.5 %/°C above +40 °C)	3K3 (-30 ... +60 °C) EN IEC 60721-3-3 (derating of 2.5 %/°C above +40 °C)
<b>Inputs/Outputs</b>				
<b>Digital input/output</b>	5/1			Max. 8/0 or 4/4 (configurable)
<b>Analog input/output</b>	2/1			-
<b>NO/NC relay</b>	1			-
<b>IO-Link</b>				
<b>Operation</b>	-	Device	Device	Master
<b>Ports</b>	-			Max. 4
<b>Communication</b>				
	CANopen - - Modbus RTU - - - -	CANopen EtherCAT EtherNet/IP Modbus RTU Modbus TCP Powerlink PROFIBUS PROFINET	CANopen EtherCAT EtherNet/IP Modbus RTU Modbus TCP - - PROFINET	- EtherCAT EtherNet/IP - Modbus TCP - - PROFINET
<b>Diagnostics</b>				
	Keypad, WLAN module, USB module			USB RFID, WLAN (planned)
<b>Operating conditions</b>				
<b>EN 61000-3-2</b>	> 1 kW up to 16 A mains current: no additional measures, < 1 kW with mains choke			No additional measures
<b>EN 61000-3-12</b>	-	-	From 30 kW mains choke integrated	
<b>EMC category C1</b>	-	Max. 3 m up to 2.2 kW, above that RFI filter	Max. 3 m up to 2.2 kW	-
<b>EMC category C2</b>	Max. 20 m (up to 0.37 kW 15 m), above that RFI filter		Max. 20 m up to 11 kW > 11 kW 15 m	Max. 10 m
<b>RCD operation</b>				
	Up to 11 kW: 30 mA			Up to 45 kW: 30 mA

# Technical data

## i510 cabinet frequency inverter

Connection to 230 V mains

Market approvals	
Approval	CE, UKCA, UL, CSA, CCC, UKSepro
Environment	RoHS
Energy efficiency	IE2 according to EN IEC 61800-9-2
Degree of protection	
	IP20 (NEMA 250 Open Type)
Overload behavior	
	200% for 3s; 150% for 60s
Cooling	
	Ambient operating temperature: 3K3 (-10 ... +60 °C) EN IEC 60721-3-3 (derating of 2.5 %/°C above +45 °C)
Operating conditions	
EN 61000-3-2	> 1 kW up to 16 A mains current: no additional measures < 1 kW with mains choke
EN 61000-3-12	> 16 A mains current with mains choke
EMC category C1	-
EMC category C2	Max. 20 m (up to 0.37 kW 15 m), above that RFI filter
RCD operation	
	Up to 11 kW: 30 mA

	P <sub>rated</sub> [kW]	V <sub>mains</sub> [V]	I <sub>rated</sub> [A]	m [kg]	H x W x D [mm]	Material number		
<b>1-phase mains connection 230 V with integrated RFI filter</b>								
i510-C0.25/230-1	0.25	1/N/PE AC 170 V ... 264 V 45 ... 65 Hz	1.7	0.75	155 x 60 x 130	16128696		
i510-C0.37/230-1	0.37		2.4	0.75	155 x 60 x 130	16128670		
i510-C0.55/230-1	0.55		3.2	0.95	180 x 60 x 130	16128697		
i510-C0.75/230-1	0.75		4.2	0.95	180 x 60 x 130	16128756		
i510-C1.1/230-1	1.1		6	1.35	250 x 60 x 130	16128698		
i510-C1.5/230-1	1.5		7	1.35	250 x 60 x 130	16128699		
i510-C2.2/230-1	2.2		9.6	1.35	250 x 60 x 130	16128700		
<b>1-phase mains connection 230 V without integrated RFI filter</b>								
i510-C0.25/230-2	0.25	1/N/PE AC or 3/PE AC 170 V ... 264 V 45 ... 65 Hz	1.7	0.75	155 x 60 x 130	16130190		
i510-C0.37/230-2	0.37		2.4	0.75	155 x 60 x 130	16129279		
i510-C0.55/230-2	0.55		3.2	0.95	180 x 60 x 130	16132576		
i510-C0.75/230-2	0.75		4.2	0.95	180 x 60 x 130	16130279		
i510-C1.1/230-2	1.1		6	1.35	250 x 60 x 130	16142329		
i510-C1.5/230-2	1.5		7	1.35	250 x 60 x 130	16128935		
i510-C2.2/230-2	2.2		9.6	1.35	250 x 60 x 130	16130739		
<b>3-phase mains connection 230 V without integrated RFI filter</b>								
i510-C0.25/230-2	0.25	3/PE AC 170 V ... 264 V 45 ... 65 Hz	1.7	0.75	155 x 60 x 130	16130190		
i510-C0.37/230-2	0.37		2.4	0.75	155 x 60 x 130	16129279		
i510-C0.55/230-2	0.55		3.2	0.95	180 x 60 x 130	16132576		
i510-C0.75/230-2	0.75		4.2	0.95	180 x 60 x 130	16130279		
i510-C1.1/230-2	1.1		6	1.35	250 x 60 x 130	16142329		
i510-C1.5/230-2	1.5		7	1.35	250 x 60 x 130	16128935		
i510-C2.2/230-2	2.2		9.6	1.35	250 x 60 x 130	16130739		
i510-C4.0/230-3	4		16.5	2.1	250 x 90 x 130	16163112		
i510-C5.5/230-3	5.5		23	2.1	250 x 90 x 130	16163114		

The basic i510 cabinet variants listed here are equipped with the basic I/O.

# i510 cabinet frequency inverter

Connection to 400 V mains

Market approvals	
Approval	CE, UKCA, UL, CSA, CCC, UKSepro
Environment	RoHS
Energy efficiency	IE2 according to EN IEC 61800-9-2
Degree of protection	
	IP20 (NEMA 250 Open Type)
Overload behavior	
	200% for 3s; 150% for 60s
Cooling	
	Ambient operating temperature: 3K3 (-10 ... +60 °C) EN IEC 60721-3-3 (derating of 2.5 %/°C above +45 °C)
Operating conditions	
EN 61000-3-2	> 1 kW up to 16 A mains current: no additional measures < 1 kW with mains choke
EN 61000-3-12	> 16 A mains current with mains choke
EMC category C1	
EMC category C2	Max. 20 m (up to 0.37 kW 15 m), above that RFI filter
RCD operation	
	Up to 11 kW: 30 mA

	P <sub>rated</sub> [kW]	V <sub>mains</sub> [V]	I <sub>rated</sub> [A]	m [kg]	H x W x D [mm]	Material number		
<b>3-phase mains connection 400 V – Heavy Duty with integrated RFI filter</b>								
i510-C0.37/400-3	0.37	3/PE AC 340 V ... 528 V 45 ... 65 Hz	1.3	0.75	155 x 60 x 130	16129217		
i510-C0.55/400-3	0.55		1.8	0.95	180 x 60 x 130	16129084		
i510-C0.75/400-3	0.75		2.4	0.95	180 x 60 x 130	16129214		
i510-C1.1/400-3	1.1		3.2	1.35	250 x 60 x 130	16130383		
i510-C1.5/400-3	1.5		3.9	1.35	250 x 60 x 130	16128936		
i510-C2.2/400-3	2.2		5.6	1.35	250 x 60 x 130	16129713		
i510-C3.0/400-3	3		7.3	1.35	250 x 60 x 130	16237999		
i510-C4.0/400-3	4		9.5	1.35	250 x 60 x 130	16270390		
i510-C5.5/400-3	5.5		13	2.3	250 x 90 x 130	16161644		
i510-C7.5/400-3	7.5		16.5	3.7	276 x 120 x 130	16161981		
i510-C11/400-3	11		23.5	3.7	276 x 120 x 130	16161266		
<b>3-phase mains connection 400 V - Light Duty with integrated RFI filter</b>								
i510-C3.0/400-3	4	3/PE AC 340 V ... 528 V 45 ... 65 Hz	8.8	1.35	250 x 60 x 130	16237999		
i510-C4.0/400-3	5.5		11.9	1.35	250 x 60 x 130	16270390		
i510-C5.5/400-3	7.5		15.6	2.3	250 x 90 x 130	16161644		
i510-C7.5/400-3	11		23	3.7	276 x 120 x 130	16161981		
i510-C11/400-3	15		28.2	3.7	276 x 120 x 130	16161266		

Mains choke is generally prescribed for Light Duty with 15 kW.

The basic i510 cabinet variants listed here are equipped with the basic I/O.

# i510 cabinet

## 0.25 ... 15 kW

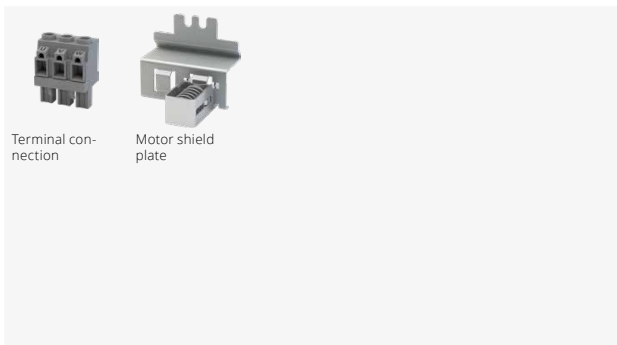
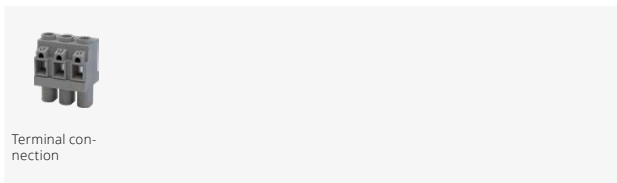
After selection via the technical data, the frequency inverter type can be easily specified.  
The basic variant with basic I/O has the following inputs and outputs:

- 5 digital inputs, 1 digital output, 2 analog inputs, 1 analog output

This inverter can be ordered directly and delivered quickly.

Does not fit? The inverter can be adapted to the application with integrable options and external accessories:

### Connections



### Communication



CANopen



Modbus RTU

### Diagnostics



Keypad



WLAN module



USB module



Blanking cover

### Functional safety

### Accessories



Mains choke



RFI filter



Memory module copier








































Memory module



Mounting set -  
DIN rail



External keypad

Options			
<b>Communication</b>			
<b>CANopen</b>	CANopen communication protocol Connection via screw terminals		
<b>Modbus RTU</b>	Serial Modbus RTU communication protocol Connection via screw terminals		
Accessories			Material number
<b>Connection</b>			
<b>Motor shield plate</b>	1 x shield mounting 0.25 ... 3 kW	13560530	
	5 x shield mounting 0.25 ... 3 kW	13560529	 
	1 x shield mounting 4 ... 5.5 kW	13481481	
	5 x shield mounting 4 ... 5.5 kW	13481482	 
	1 x shield mounting 7.5 ... 11 kW	13481483	 
	5 x shield mounting 7.5 ... 11 kW	13481484	
<b>Diagnostics</b>			
<b>Keypad</b>	Parameterization and diagnostics of the inverter Parameters and actual values are shown on the easy-to-read display	13549150	 
<b>WLAN module</b>	Parameterization and diagnostics of the inverter Commissioning via WLAN connection with engineering tools	13547172	 
<b>USB module</b>	Parameterization and diagnostics of the inverter Commissioning via USB connection with engineering tools	13516238	 
<b>USB cable</b>	3 m cable for laptop/USB module connection	13501172	 
	5 m cable for laptop/USB module connection	13501173	 
<b>Blanking cover</b>	Protective cover when no diagnostic module is plugged on	13502341	 
<b>Accessories</b>			
<b>Mains choke</b>	See brochure		
<b>RFI filter</b>	See brochure		
<b>DIN rail mounting set</b>	Mounting set for inverters up to 0.75 kW, 1 x 230 V	13566907	 
	Mounting set for inverters 0.75 ... 5.5 kW	13566908	 
<b>Memory module copier</b>	Duplication of the data of the memory module	13559235	 
<b>Memory module</b>	12 replacement modules for the inverter, directly pluggable	13481882	 
<b>External keypad</b>	Keypad holder for mounting in the control cabinet door	13550210	 
	Keypad holder with 3 m connection cable	13550222	 
	Keypad holder with 5 m connection cable	13550223	 

# i550 cabinet frequency inverter

Connection to 230 V mains

Market approvals	
Approval	CE, UKCA, UL, CSA, CCC, UKSepro
Environment	RoHS
Energy efficiency	IE2 according to EN IEC 61800-9-2
Degree of protection	
	IP20 (NEMA 250 Open Type)
Overload behavior	
	200% for 3s; 150% for 60s
Cooling	
	Ambient operating temperature: 3K3 (-10 ... +60 °C) EN IEC 60721-3-3 (derating of 2.5 %/°C above +45 °C)
Operating conditions	
EN 61000-3-2	> 1 kW up to 16 A mains current: no additional measures < 1 kW with mains choke
EN 61000-3-12	> 16 A mains current with mains choke
EMC category C1	Max. 3 m up to 2.2 kW, above that RFI filter
EMC category C2	Max. 20 m (up to 0.37 kW 15 m), above that RFI filter
RCD operation	
	Up to 11 kW: 30 mA

	P <sub>rated</sub> [kW]	V <sub>mains</sub> [V]	I <sub>rated</sub> [A]	m [kg]	H x W x D [mm]	Material number		
<b>1-phase mains connection 230 V with integrated RFI filter</b>								
i550-C0.25/230-1	0.25	1/N/PE AC 170 V ... 264 V 45 ... 65 Hz	1.7	0.8	155 x 60 x 130	16072019		
i550-C0.37/230-1	0.37		2.4	0.8	155 x 60 x 130	16064775		
i550-C0.55/230-1	0.55		3.2	1	180 x 60 x 130	16065635		
i550-C0.75/230-1	0.75		4.2	1	180 x 60 x 130	16064551		
i550-C1.1/230-1	1.1		6	1.35	250 x 60 x 130	16064914		
i550-C1.5/230-1	1.5		7	1.35	250 x 60 x 130	16065219		
i550-C2.2/230-1	2.2		9.6	1.35	250 x 60 x 130	16064726		
<b>1-phase mains connection 230 V without integrated RFI filter</b>								
i550-C0.25/230-2	0.25	1/N/PE AC 170 V ... 264 V 45 ... 65 Hz	1.7	0.8	155 x 60 x 130	16064376		
i550-C0.37/230-2	0.37		2.4	0.8	155 x 60 x 130	16069965		
i550-C0.55/230-2	0.55		3.2	1	180 x 60 x 130	16066742		
i550-C0.75/230-2	0.75		4.2	1	180 x 60 x 130	16068342		
i550-C1.1/230-2	1.1		6	1.35	250 x 60 x 130	16067912		
i550-C1.5/230-2	1.5		7	1.35	250 x 60 x 130	16069966		
i550-C2.2/230-2	2.2		9.6	1.35	250 x 60 x 130	16068892		
<b>3-phase mains connection 230 V without integrated RFI filter</b>								
i550-C0.25/230-2	0.25	3/PE AC 170 V ... 264 V 45 ... 65 Hz	1.7	0.8	155 x 60 x 130	16064376		
i550-C0.37/230-2	0.37		2.4	0.8	155 x 60 x 130	16069965		
i550-C0.55/230-2	0.55		3.2	1	180 x 60 x 130	16066742		
i550-C0.75/230-2	0.75		4.2	1	180 x 60 x 130	16068342		
i550-C1.1/230-2	1.1		6	1.35	250 x 60 x 130	16067912		
i550-C1.5/230-2	1.5		7	1.35	250 x 60 x 130	16069966		
i550-C2.2/230-2	2.2		9.6	1.35	250 x 60 x 130	16068892		
i550-C4.0/230-3	4		16.5	2.1	250 x 90 x 130	16069567		
i550-C5.5/230-3	5.5		23	2.1	250 x 90 x 130	16069967		

The basic i550 cabinet variants listed here are equipped with the standard I/O. The alternatively available basic product with application I/O can be found on the Internet.



# i550 cabinet frequency inverter

Connection to 400 V mains

Market approvals	
Approval	CE, UKCA, UL, CSA, CCC, UKSepro
Environment	RoHS
Energy efficiency	IE2 according to EN IEC 61800-9-2
Degree of protection	
	IP20 (NEMA 250 Open Type)
Overload behavior	
	200% for 3s; 150% for 60s
Cooling	
	Ambient operating temperature: 3K3 (-10 ... +60 °C) EN IEC 60721-3-3 (derating of 2.5 %/°C above +45 °C)
Operating conditions	
EN 61000-3-2	> 1 kW up to 16 A mains current: no additional measures < 1 kW with mains choke
EN 61000-3-12	> 16 A mains current with mains choke
EMC category C1	Max. 3 m up to 2.2 kW, above that RFI filter
EMC category C2	Max. 20 m (up to 0.37 kW 15 m), above that RFI filter
RCD operation	
	Up to 11 kW: 30 mA

	P <sub>rated</sub> [kW]	V <sub>mains</sub> [V]	I <sub>rated</sub> [A]	m [kg]	H x W x D [mm]	Material number		
<b>3-phase mains connection 400 V – Heavy Duty with integrated RFI filter</b>								
i550-C0.37/400-3	0.37	3/PE AC 340 V ... 528 V 45 ... 65 Hz	1.3	0.8	155 x 60 x 130	16064469		
i550-C0.55/400-3	0.55		1.8	1	180 x 60 x 130	16064720		
i550-C0.75/400-3	0.75		2.4	1	180 x 60 x 130	16064604		
i550-C1.1/400-3	1.1		3.2	1.35	250 x 60 x 130	16064661		
i550-C1.5/400-3	1.5		3.9	1.35	250 x 60 x 130	16064940		
i550-C2.2/400-3	2.2		5.6	1.35	250 x 60 x 130	16064391		
i550-C3.0/400-3	3		7.3	1.35	250 x 60 x 130	16238456		
i550-C4.0/400-3	4		9.5	1.35	250 x 60 x 130	16238735		
i550-C5.5/400-3	5.5		13	2.3	250 x 90 x 130	16064392		
i550-C7.5/400-3	7.5		16.5	3.7	276 x 120 x 130	16064360		
i550-C11/400-3	11		23.5	3.7	276 x 120 x 130	16064320		
i550-C15/400-3	15		32	8	342 x 180 x 165	16648823		
i550-C18/400-3	18.5		40	8	342 x 180 x 165	16648824		
i550-C22/400-3	22		47	8	342 x 180 x 165	16648825		
i550-C30/400-3	30		61	8	342 x 180 x 165	16648826		
i550-C37/400-3	37		76	17.2	450 x 250 x 230	16064757		
i550-C45/400-3	45		89	17.2	450 x 250 x 230	16065493		
i550-C55/400-3	55		110	24	536 x 250 x 265	16064467		
i550-C75/400-3	75	150	24	536 x 250 x 265	16064680			
i550-C90/400-3	90	180	35.6	685 x 258 x 304	16109969			
i550-C110/400-3	110	212	35.6	685 x 258 x 304	16110065			
<b>3-phase mains connection 400 V – Light Duty with integrated RFI filter</b>								
i550-C3.0/400-3	4	3/PE AC 340 V ... 528 V 45 ... 65 Hz	8.8	1.35	250 x 60 x 130	16238456		
i550-C4.0/400-3	5.5		11.9	1.35	250 x 60 x 130	16238735		
i550-C5.5/400-3	7.5		15.6	2.3	250 x 90 x 130	16064392		
i550-C7.5/400-3	11		23	3.7	276 x 120 x 130	16064360		
i550-C11/400-3	15		28.2	3.7	276 x 120 x 130	16064320		
i550-C15/400-3	18.5		38.4	8	342 x 180 x 165	16648823		
i550-C18/400-3	22		48	8	342 x 180 x 165	16648824		
i550-C22/400-3	30		56.4	8	342 x 180 x 165	16648825		
i550-C30/400-3	37		73.2	8	342 x 180 x 165	16648826		
i550-C37/400-3	45		91.2	17.2	450 x 250 x 230	16064757		
i550-C45/400-3	55		107	17.2	450 x 250 x 230	16065493		
i550-C55/400-3	75		132	24	536 x 250 x 265	16064467		
i550-C75/400-3	90		180	24	536 x 250 x 265	16064680		
i550-C90/400-3	110		216	35.6	685 x 258 x 304	16109969		
i550-C110/400-3	132		254	35.6	685 x 258 x 304	16110065		

Mains choke is generally prescribed from 22 kW (for Light Duty from 15 kW).

The basic i550 cabinet variants listed here are equipped with the standard I/O. The alternatively available basic product with application I/O can be found on the Internet.

# i550 cabinet

## 0.25 ... 132 kW

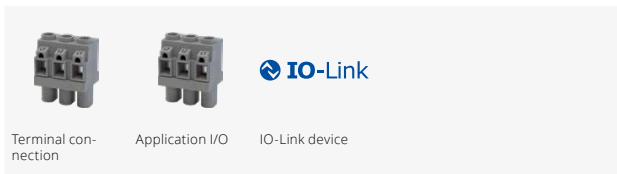
After selection via the technical data, the frequency inverter type can be easily specified.  
The basic variant with standard I/O has the following inputs and outputs:

- 5 digital inputs, 1 digital output, 2 analog inputs, 1 analog output

This inverter can be ordered directly and delivered quickly.

Does not fit? The inverter can be adapted to the application with integrable options and external accessories:

### Connections



### Communication



CANopen



EtherCAT



EtherNet/IP



Modbus RTU



Modbus TCP



Powerlink



PROFIBUS



PROFINET

### Diagnostics



Keypad



WLAN module



USB module



Blanking cover

### Functional safety



Basic Safety STO

### Accessories



Brake resistor



Mains choke



RFI filter



Memory module copier



Memory module



Mounting set - DIN rail



External keypad

Options	
<b>Connections</b>	
<b>Application I/O</b>	2 digital inputs, a digital output and an analog output in addition
<b>IO-Link</b>	IO-Link device Connection via screw terminals
<b>Communication</b>	
<b>CANopen</b>	CANopen communication protocol Connection via screw terminals
<b>EtherCAT</b>	Ethernet-based fieldbus system EtherCAT Connection via standardized RJ45 connectors
<b>EtherNet/IP</b>	Ethernet-based fieldbus system EtherNet/IP Connection via standardized RJ45 connectors
<b>Modbus RTU</b>	Serial Modbus RTU communication protocol Connection via screw terminals
<b>Modbus TCP</b>	Ethernet-based fieldbus system Modbus TCP Connection via standardized RJ45 connectors
<b>Powerlink</b>	Ethernet-based fieldbus system Powerlink Connection via standardized RJ45 connectors
<b>PROFIBUS</b>	PROFIBUS communication protocol Connection via standardized RJ45 connectors
<b>PROFINET</b>	Ethernet-based fieldbus system PROFINET Connection via standardized RJ45 connectors
<b>Functional safety</b>	
<b>Basic Safety STO</b>	Functional safety function "Safe Torque Off (STO)" This function corresponds to a "Stop 0" according to EN 60204

Accessories		Material number		
<b>Connections</b>				
<b>Motor shield plate</b>	1 x shield mounting 0.25 ... 3 kW <small>see brochure</small>	13560530		
	5 x shield mounting 0.25 ... 3 kW	13560529		
	1 x shield mounting 4 ... 5.5 kW	13481481		
	5 x shield mounting 4 ... 5.5 kW	13481482		
	1 x shield mounting 7.5 ... 11 kW	13481483		
	5 x shield mounting 7.5 ... 11 kW	13481484		
	10 x shield mounting 15 ... 22 kW	13433061		
	10 x shield mounting 30 ... 75 kW	13433062		
<b>Diagnostics</b>				
<b>Keypad</b>	Parameterization and diagnostics of the inverter Parameters and actual values are shown on the easy-to-read display	13549150		
<b>WLAN module</b>	Parameterization and diagnostics of the inverter Commissioning via WLAN connection with engineering tools	13547172		
<b>USB module</b>	Parameterization and diagnostics of the inverter Commissioning via USB connection with engineering tools	13516238		
<b>USB cable</b>	3 m cable for laptop/USB module connection	13501172		
	5 m cable for laptop/USB module connection	13501173		
<b>Blanking cover</b>	Protective cover when no diagnostic module is plugged on	13502341		
<b>Accessories</b>				
<b>Mains choke</b>	See brochure			
<b>RFI filter</b>	See brochure			
<b>Brake resistor</b>	See brochure			
<b>DIN rail mounting set</b>	Mounting set for inverters up to 0.75 kW, 1 x 230 V	13566907		
	Mounting set for inverters 0.75 ... 5.5 kW	13566908		
<b>Memory module copier</b>	Duplication of the data of the memory module	13559235		
<b>Memory module</b>	12 replacement modules for the inverter, directly pluggable	13481882		
<b>External keypad</b>	Keypad holder for mounting in the control cabinet door	13550210		
	Keypad holder with 3 m connection cable	13550222		
	Keypad holder with 5 m connection cable	13550223		

# i550 protec frequency inverter

Connection to 230 V mains with IP55/IP66 protection

Market approvals	
Approval	CE, UKCA, UL, CSA, CCC, UKSepro
Environment	RoHS
Energy efficiency	IE2 according to EN IEC 61800-9-2
Degree of protection	
	IP55/66 (NEMA 12/4X)
Overload behavior	
	200% for 3s; 150% for 60s
Cooling	
	Ambient operating temperature: 3K3 (-30 ... +60 °C) EN IEC 60721-3-3 (derating of 2.5 %/°C above +45 °C)
Operating conditions	
EN 61000-3-2	> 1 kW up to 16 A mains current: no additional measures < 1 kW with mains choke
EN 61000-3-12	> 16 A mains current with mains choke From 30 kW mains choke integrated
EMC category C1	Max. 3 m up to 2.2 kW
EMC category C2	Max. 20 m up to 11 kW > 11 kW 15 m
RCD operation	
	Up to 11 kW: 30 mA







































	P <sub>rated</sub> [kW]	V <sub>mains</sub> [V]	I <sub>rated</sub> [A]	Degree of protection	m [kg]	H x W x D [mm]	Material number		
<b>1-phase mains connection 230 V – Heavy Duty with integrated RFI filter</b>									
i550-P0.37/230-1	0.37	1/N/PE AC 170 V ... 264 V 45 ... 65 Hz	2.4	IP66	1.8	190 x 140 x 117	16289267		
i550-P0.55/230-1	0.55		3.2	IP66	1.8	190 x 140 x 117	16289308		
i550-P0.75/230-1	0.75		4.2	IP66	1.8	190 x 140 x 117	16289319		
i550-P1.1/230-1	1.1		6	IP66	2.7	205 x 140 x 140	16289328		
i550-P1.5/230-1	1.5		7	IP66	2.7	205 x 140 x 140	16289356		
i550-P2.2/230-1	2.2		9.6	IP66	2.7	205 x 140 x 140	16289364		
<b>1-phase mains connection 230 V – Heavy Duty without integrated RFI filter</b>									
i550-P0.37/230-2	0.37	1/N/PE AC 170 V ... 264 V 45 ... 65 Hz	2.4	IP66	1.7	190 x 140 x 117	16289896		
i550-P0.55/230-2	0.55		3.2	IP66	1.7	190 x 140 x 117	16289897		
i550-P0.75/230-2	0.75		4.2	IP66	1.7	190 x 140 x 117	16289898		
i550-P1.1/230-2	1.1		6	IP66	2.6	205 x 140 x 140	16289899		
i550-P1.5/230-2	1.5		7	IP66	2.6	205 x 140 x 140	16289900		
i550-P2.2/230-2	2.2		9.6	IP66	2.6	205 x 140 x 140	16289912		
<b>3-phase mains connection 230 V – Heavy Duty without integrated RFI filter</b>									
i550-P0.37/230-3	0.37	3/PE AC 170 V ... 264 V 45 ... 65 Hz	2.4	IP66	1.7	190 x 140 x 117	16289896		
i550-P0.55/230-3	0.55		3.2	IP66	1.7	190 x 140 x 117	16289897		
i550-P0.75/230-3	0.75		4.2	IP66	1.7	190 x 140 x 117	16289898		
i550-P1.1/230-3	1.1		6	IP66	2.6	205 x 140 x 140	16289899		
i550-P1.5/230-3	1.5		7	IP66	2.6	205 x 140 x 140	16289900		
i550-P2.2/230-3	2.2		9.6	IP66	2.6	205 x 140 x 140	16289912		
i550-P3.0/230-3	3		12	IP66	4.8	250 x 180 x 168	16438365		
i550-P4.0/230-3	4		16.5	IP66	4.8	250 x 180 x 168	16438369		
i550-P5.5/230-3	5.5		23	IP66	4.8	250 x 180 x 168	16438390		
i550-P7.5/230-3	7.5		29	IP66	5	290 x 180 x 173	16438405		
i550-P11/230-3	11		42	IP66	5	290 x 180 x 173	16438121		
i550-P15/230-3	15		54	IP66	9.3	405 x 230 x 187	16482632		
i550-P18/230-3	18.5		68	IP66	9.3	405 x 230 x 187	16482707		
i550-P30/230-3	30		89	IP55	46	778 x 298 x 286	16609245		
i550-P45/230-3	45		150	IP55	53	778 x 298 x 378	16609293		

The basic i550 protec variants listed here are equipped with the standard I/O.

# i550 protec frequency inverter

Connection to 400 V mains with IP55/IP66 protection

Market approvals	
Approval	CE, UKCA, UL, CSA, CCC, UKSepro
Environment	RoHS
Energy efficiency	IE2 according to EN IEC 61800-9-2
Degree of protection	
	IP55/66 (NEMA 12/4X)
Overload behavior	
	200% for 3s; 150% for 60s
Cooling	
	Ambient operating temperature: 3K3 (-30 ... +60 °C) EN IEC 60721-3-3 (derating of 2.5 %/°C above +45 °C)
Operating conditions	
EN 61000-3-2	> 1 kW up to 16 A mains current: no additional measures < 1 kW with mains choke
EN 61000-3-12	> 16 A mains current with mains choke From 30 kW mains choke integrated
EMC category C1	Max. 3 m up to 2.2 kW
EMC category C2	Max. 20 m up to 11 kW > 11 kW 15 m
RCD operation	
	Up to 11 kW: 30 mA

	P <sub>rated</sub> [kW]	V <sub>mains</sub> [V]	I <sub>rated</sub> [A]	Degree of protection	m [kg]	H x W x D [mm]	Material number		
<b>3-phase mains connection 400 V – Heavy Duty with integrated RFI filter</b>									
i550-P0.37/400-3	0.37	3/PE AC 340 V ... 528 V 45 ... 65 Hz	1.3	IP66	1.8	190 x 140 x 117	16289382		
i550-P0.55/400-3	0.55		1.8	IP66	1.8	190 x 140 x 117	16289390		
i550-P0.75/400-3	0.75		2.4	IP66	1.8	190 x 140 x 117	16289401		
i550-P1.1/400-3	1.1		3.2	IP66	2.7	205 x 140 x 140	16289416		
i550-P1.5/400-3	1.5		3.9	IP66	2.7	205 x 140 x 140	16289340		
i550-P2.2/400-3	2.2		5.6	IP66	2.7	205 x 140 x 140	16289341		
i550-P3.0/400-3	3		7.3	IP66	4.9	250 x 180 x 168	16438049		
i550-P4.0/400-3	4		9.5	IP66	4.9	250 x 180 x 168	16438336		
i550-P5.5/400-3	5.5		13	IP66	4.9	250 x 180 x 168	16438342		
i550-P7.5/400-3	7.5		16.5	IP66	5.1	290 x 180 x 173	16438327		
i550-P11/400-3	11		23.5	IP66	5.1	290 x 180 x 173	16438271		
i550-P15/400-3	15		32	IP66	10.2	405 x 230 x 187	16482411		
i550-P18/400-3	18.5		40	IP66	10.2	405 x 230 x 187	16482701		
i550-P22/400-3	22		47	IP66	10.2	405 x 230 x 187	16482771		
i550-P30/400-3	30		61	IP55	46	778 x 298 x 286	16609352		
i550-P37/400-3	37		76	IP55	46	778 x 298 x 286	16609416		
i550-P45/400-3	45		89	IP55	46	778 x 298 x 286	16609480		
i550-P55/400-3	55		110	IP55	53	778 x 298 x 378	16609544		
i550-P75/400-3	75	150	IP55	53	778 x 298 x 378	16609609			

The basic i550 protec variants listed here are equipped with the standard I/O.

# i550 protec

## 0.37 ... 75 kW

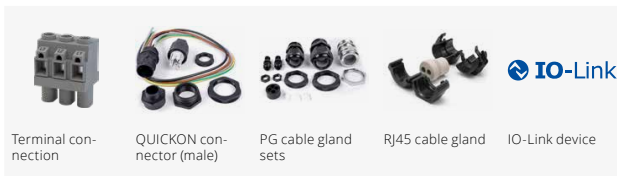
After selection via the technical data, the frequency inverter type can be easily specified.  
The basic variant with standard I/O has the following inputs and outputs:

- 5 digital inputs, 1 digital output, 2 analog inputs, 1 analog output

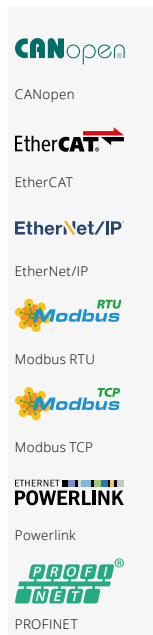
This inverter can be ordered directly and delivered quickly.

Does not fit? The inverter can be adapted to the application with integrable options and external accessories:

### Connections



### Communication



### Diagnostics













































### Functional safety



### Accessories



Options	
<b>Connections</b>	
<b>IO-Link</b>	IO-Link device Connection via screw terminals
<b>Communication</b>	
<b>CANopen</b>	CANopen communication protocol Connection via screw terminals
<b>EtherCAT</b>	Ethernet-based fieldbus system EtherCAT Connection via standardized RJ45 connectors
<b>EtherNet/IP</b>	Ethernet-based fieldbus system EtherNet/IP Connection via standardized RJ45 connectors
<b>Modbus RTU</b>	Serial Modbus RTU communication protocol Connection via screw terminals
<b>Modbus TCP</b>	Ethernet-based fieldbus system Modbus TCP Connection via standardized RJ45 connectors
<b>Powerlink</b>	Ethernet-based fieldbus system Powerlink Connection via standardized RJ45 connectors
<b>PROFIBUS</b>	PROFIBUS communication protocol Connection via standardized RJ45 connectors
<b>PROFINET</b>	Ethernet-based fieldbus system PROFINET Connection via standardized RJ45 connectors
<b>Diagnostics</b>	
<b>Keypad</b>	Parameterization and diagnostics of the inverter Parameters and actual values are shown on the easy-to-read display
<b>WLAN module</b>	Parameterization and diagnostics of the inverter Commissioning via WLAN connection with engineering tools
<b>USB module</b>	Parameterization and diagnostics of the inverter Commissioning via USB connection with engineering tools
<b>Functional safety</b>	
<b>Basic Safety STO</b>	Functional safety function "Safe Torque Off (STO)" This function corresponds to a "Stop 0" according to EN 60204
<b>Extension box - for switching elements (see below "When using the extension box")</b>	
<b>Empty</b>	0.37 ... 2.2 kW, additional length: 140 mm
	3 ... 5.5 kW, additional length: 146 mm
	7.5 ... 11 kW, additional length: 181 mm
	15 ... 22 kW, additional length: 207 mm
<b>With disconnect switch</b>	0.37 ... 2.2 kW, additional length: 140 mm
	3 ... 5.5 kW, additional length: 146 mm
	7.5 ... 11 kW, additional length: 181 mm
	15 ... 22 kW, additional length: 207 mm

Accessories		Material number		
<b>Connections</b>				
<b>QUICKON connector (male)</b>	QUICKON connector (male) for the mains connection 0.37 ... 4 kW (1 ... 2.5 mm <sup>2</sup> ) with wall bushing	13591613		
<b>PG cable gland sets</b>	5-fold PG cable gland set for devices 0.37 ... 2.2 kW	13584557		
	5-fold PG cable gland set for devices 3 ... 11 kW	13584558		
	5-fold PG cable gland set for devices 15 ... 22 kW	13584559		
<b>Membrane set</b>	5 x M12 cable glands to avoid condensation water	13584561		
<b>RJ45 cable gland</b>	1 x RJ45 cable gland for easy network connection	13584560		
<b>Accessories</b>				
<b>Brake resistor</b>	See brochure			
<b>Memory module copier</b>	Duplication of the data of the memory module	13559235		
<b>Memory module</b>	12 replacement modules for the inverter, directly pluggable	13481882		
<b>QUICKON-T distributor</b>	Distributor for QUICKON wiring of several inverters, T-piece, 1 ... 2.5 mm <sup>2</sup>	13566790		
	Distributor for QUICKON wiring of several inverters, T-piece, 2.5 ... 6 mm <sup>2</sup>	13566824		
<b>QUICKON-H distributor</b>	Distributor for QUICKON wiring of several inverters, H-piece, 1 ... 2.5 mm <sup>2</sup>	13566789		
	Distributor for QUICKON wiring of several inverters, H-piece, 2.5 ... 6 mm <sup>2</sup>	13566823		
<b>RJ45 connector</b>	Angled RJ45 connector for simplified connection for EtherCAT, EtherNet/IP, Modbus TCP and PROFINET networks	13598644		
<b>When using the extension box</b>				
<b>Switch/potentiometer set</b>	1 x selector switch and labeling field, 1 x potentiometer 10 kOhm	13592391		
	10 x selector switch and labeling field	13604743		
	5 x potentiometer 10 kOhm	13604744		
<b>Pushbutton set</b>	10 x black pushbutton with labeling field	13604711		
	10 x red pushbutton with labeling field	13604742		
<b>Signal lamp set</b>	10 x blue signal lamp	13606251		
	10 x green signal lamp	13606443		
	10 x red signal lamp	13606442		
<b>Connection set</b>	5 x DIN rail, 7-pol. terminal block incl. PE	13593846		
<b>Brake connection set</b>	1 x brake rectifier for 1 x 230 V AC	13218705		
	1 x brake rectifier for 3 x 400V AC	13218704		

# i550 motec frequency inverter

Motor mounting, connection to 3 x 230 V mains and 3 x 400 V mains

Market approvals	
Approval	CE, UKCA, UL, CSA
Environment	RoHS
Energy efficiency	IE2 according to EN IEC 61800-9-2
Degree of protection	
	IP66 (NEMA 4X)
Overload behavior	
	200 % for 3 s; 150 % for 60 s 3 x 230 V, 18.5 kW and 22 kW: 120 % for 60 s 3 x 400 V, 37 kW and 45 kW: 120 % for 60 s
Cooling	
	Ambient operating temperature: 3K3(-30 ... +60 °C) EN IEC 60721-3-3 (derating of 2.5 %/°C above +40 °C)
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

	P <sub>rated</sub> [kW]	V <sub>mains</sub> [V]	I <sub>rated</sub> [A]	Degree of protection	m [kg]	H x W x D [mm]	Material number		
<b>3-phase mains connection 230 V – with integrated RFI filter</b>									
i550-M0.37/230-3	0.37	3/PE AC 170 V ... 264 V 45 ... 65 Hz	2.4	IP66	2.9	160 x 265 x 126	16776528		
i550-M0.55/230-3	0.55		3.2	IP66	2.9	160 x 265 x 126	16776530		
i550-M0.75/230-3	0.75		4.2	IP66	2.9	160 x 265 x 126	16776532		
i550-M1.1/230-3	1.1		6	IP66	2.9	160 x 265 x 126	16776535		
i550-M1.5/230-3	1.5		7	IP66	3.4	160 x 265 x 140	16776578		
i550-M2.2/230-3	2.2		9.6	IP66	3.4	160 x 265 x 140	16776579		
i550-M3.0/230-3	3		12	IP66	3.4	160 x 265 x 140	16776537		
i550-M4.0/230-3	4		16.5	IP66	5.4	211 x 358 x 164			
i550-M5.5/230-3	5.5		23	IP66	5.4	211 x 358 x 164			
i550-M7.5/230-3	7.5		29	IP66	12.5	280 x 443 x 216			
i550-M11/230-3	11		42	IP66	12.5	280 x 443 x 216			
i550-M15/230-3	15		54	IP66	12.5	280 x 443 x 216			
i550-M18/230-3	18.5		68	IP66	12.5	280 x 443 x 216			
i550-M22/230-3	22		80	IP66	12.5	280 x 443 x 216			
<b>3-phase mains connection 400 V – with integrated RFI filter</b>									
i550-M0.37/400-3	0.37	3/PE AC 340 V ... 528 V 45 ... 65 Hz	1.3	IP66	2.9	160 x 265 x 126	16675838		
i550-M0.55/400-3	0.55		1.8	IP66	2.9	160 x 265 x 126	16679448		
i550-M0.75/400-3	0.75		2.4	IP66	2.9	160 x 265 x 126	16676982		
i550-M1.1/400-3	1.1		3.2	IP66	2.9	160 x 265 x 126	16776559		
i550-M1.5/400-3	1.5		3.9	IP66	2.9	160 x 265 x 140	16776562		
i550-M2.2/400-3	2.2		5.6	IP66	2.9	160 x 265 x 140	16776565		
i550-M3.0/400-3	3		7.3	IP66	3.4	160 x 265 x 140	16676941		
i550-M4.0/400-3	4		9.5	IP66	3.4	160 x 265 x 140	16682502		
i550-M5.5/400-3	5.5		13	IP66	3.4	160 x 265 x 140	16768199		
i550-M7.5/400-3	7.5		16.5	IP66	5.4	211 x 358 x 164			
i550-M11/400-3	11		23.5	IP66	5.4	211 x 358 x 164			
i550-M15/400-3	15		32	IP66	12.5	280 x 443 x 216			
i550-M18/400-3	18.5		40	IP66	12.5	280 x 443 x 216			
i550-M22/400-3	22		47	IP66	12.5	280 x 443 x 216			
i550-M30/400-3	30		61	IP66	12.5	280 x 443 x 216			
i550-M37/400-3	37		76	IP66	12.5	280 x 443 x 216			
i550-M45/400-3	45		84	IP66	12.5	280 x 443 x 216			

The basic i550 motec variants listed here are equipped with the standard I/O.



# i550 motec frequency inverter

Wall mounting, connection to 3 x 230 V mains and 3 x 400 V mains

Market approvals	
Approval	CE, UKCA, UL, CSA
Environment	RoHS
Energy efficiency	IE2 according to EN IEC 61800-9-2
Degree of protection	
	IP66 (NEMA 4X)
Overload behavior	
	200 % for 3 s; 150 % for 60 s 3 x 230 V, 18.5 kW and 22 kW: 120 % for 60 s 3 x 400 V, 37 kW and 45 kW: 120 % for 60 s
Cooling	
	Ambient operating temperature: 3K3(-30 ... +60 °C) EN IEC 60721-3-3 (derating of 2.5 %/°C above +40 °C)
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

	P <sub>rated</sub> [kW]	V <sub>mains</sub> [V]	I <sub>rated</sub> [A]	Degree of protection	m [kg]	H x W x D [mm]	Material number		
<b>3-phase mains connection 230 V – with integrated RFI filter</b>									
i550-M0.37/230-3	0.37	3/PE AC 170 V ... 264 V 45 ... 65 Hz	2.4	IP66	3.2	202 x 265 x 128	16776404		
i550-M0.55/230-3	0.55		3.2	IP66	3.2	202 x 265 x 128	16776407		
i550-M0.75/230-3	0.75		4.2	IP66	3.2	202 x 265 x 128	16776408		
i550-M1.1/230-3	1.1		6	IP66	3.2	202 x 265 x 128	16776411		
i550-M1.5/230-3	1.5		7	IP66	3.8	202 x 265 x 152	16776413		
i550-M2.2/230-3	2.2		9.6	IP66	3.8	202 x 265 x 152	16776414		
i550-M3.0/230-3	3		12	IP66	3.8	202 x 265 x 152	16776417		
i550-M4.0/230-3	4		16.5	IP66	6.0	257 x 358 x 168			
i550-M5.5/230-3	5.5		23	IP66	6.0	257 x 358 x 168			
i550-M7.5/230-3	7.5		29	IP66	13.3	340 x 443 x 209			
i550-M11/230-3	11		42	IP66	13.3	340 x 443 x 209			
i550-M15/230-3	15		54	IP66	13.3	340 x 443 x 209			
i550-M18/230-3	18.5		68	IP66	13.3	340 x 443 x 209			
i550-M22/230-3	22		80	IP66	13.3	340 x 443 x 209			
<b>3-phase mains connection 400 V – with integrated RFI filter</b>									
i550-M0.37/400-3	0.37	3/PE AC 340 V ... 528 V 45 ... 65 Hz	1.3	IP66	3.2	202 x 265 x 128	16679090		
i550-M0.55/400-3	0.55		1.8	IP66	3.2	202 x 265 x 128	16678033		
i550-M0.75/400-3	0.75		2.4	IP66	3.2	202 x 265 x 128	16678089		
i550-M1.1/400-3	1.1		3.2	IP66	3.2	202 x 265 x 128	16707359		
i550-M1.5/400-3	1.5		3.9	IP66	3.2	202 x 265 x 152	16678034		
i550-M2.2/400-3	2.2		5.6	IP66	3.2	202 x 265 x 152	16772607		
i550-M3.0/400-3	3		7.3	IP66	3.8	202 x 265 x 152	16677850		
i550-M4.0/400-3	4		9.5	IP66	3.8	202 x 265 x 152	16682504		
i550-M5.5/400-3	5.5		13	IP66	3.8	202 x 265 x 152	16776440		
i550-M7.5/400-3	7.5		16.5	IP66	6.0	257 x 358 x 168			
i550-M11/400-3	11		23.5	IP66	6.0	257 x 358 x 168			
i550-M15/400-3	15		32	IP66	13.3	340 x 443 x 209			
i550-M18/400-3	18.5		40	IP66	13.3	340 x 443 x 209			
i550-M22/400-3	22		47	IP66	13.3	340 x 443 x 209			
i550-M30/400-3	30		61	IP66	13.3	340 x 443 x 209			
i550-M37/400-3	37		76	IP66	13.3	340 x 443 x 209			
i550-M45/400-3	45		84	IP66	13.3	340 x 443 x 209			

The basic i550 motec variants listed here are equipped with the standard I/O.

# i550 motec

## 0.37 ... 45 kW

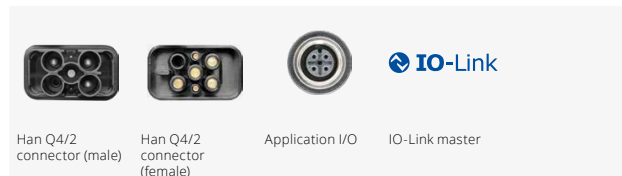
After selection via the technical data, the frequency inverter type can be easily specified.  
The basic variant with standard I/O has the following inputs and outputs:

- 4 digital inputs, 1 or 2 of which can be parameterized as digital outputs

This inverter can be ordered directly and delivered quickly.

Does not fit? The inverter can be adapted to the application with integrable options and external accessories:

### Connections



### Communication



EtherCAT



EtherNet/IP



Modbus TCP



PROFINET

### Diagnostics



RFID (planned)



USB connection

### Functional safety



Basic Safety STO

### Accessories



Mains cable



Options		
<b>Connections</b>		
<b>Mains</b>	Han Q4/2 connector (male) for mains connection up to 11 kW	
	Han Q4/2 connector (female) for looping through the mains up to 11 kW	
<b>Application I/O</b>	4 IO-Link ports, 8 digital inputs or 4 digital inputs/4 digital outputs (configurable) Connection via 4 x 4-pole M12 connector, A coded	
<b>IO-Link master</b>	For an intelligent integration of IO-Link sensors and actuators	
<b>Motor</b>	Terminal connection	
	Han Q8 connector	
	M23 connector	
<b>Communication</b>		
<b>EtherCAT</b>	Ethernet-based fieldbus system EtherCAT can be activated via parameterization Connection via 4-pole M12 connector, D coded	
<b>EtherNet/IP</b>	Ethernet-based fieldbus system EtherNet/IP can be activated via parameterization Connection via 4-pole M12 connector, D coded	
<b>Modbus TCP</b>	Ethernet-based fieldbus system Modbus TCP can be activated via parameterization Connection via 4-pole M12 connector, D coded	
<b>PROFINET</b>	Ethernet-based fieldbus system PROFINET can be activated via parameterization Connection via 4-pole M12 connector, D coded	
<b>Diagnostics</b>		
<b>RFID</b>	Parameterization of the inverter Commissioning via RFID with engineering tools	(planned)
<b>WLAN option</b>	Parameterization and diagnostics of the inverter Commissioning via WLAN connection with engineering tools	(planned)
<b>USB connection</b>	Parameterization and diagnostics of the inverter Commissioning via USB connection with engineering tools	
<b>Functional safety</b>		
<b>Basic Safety STO</b>	Functional safety function "Safe Torque Off (STO)" This function corresponds to a "Stop 0" according to EN 60204	
<b>Extension box - wall mounting (up to 11 kW in preparation)</b>		
<b>With disconnect switch</b>	Disconnect switch 3 x 230 V: 0.37 ... 1.1 kW, 3 x 400 V: 0.37 ... 2.2 kW, additional width: 135 mm	
	Disconnect switch 3 x 230 V: 1.5 ... 3 kW, 3 x 400 V: 3 ... 5.5 kW, additional width: 135 mm	
	Disconnect switch with status feedback 3 x 230 V: 0.37 ... 1.1 kW, 3 x 400 V: 0.37 ... 2.2 kW, additional width: 135 mm	
	Disconnect switch with status feedback 3 x 230 V: 1.5 ... 3 kW, 3 x 400 V: 3 ... 5.5 kW, additional width: 135 mm	
<b>With disconnect switch and 2 operating elements</b>	Disconnect switch with status feedback Operating element 1: forward/reverse/stop Operating element 2: local control/network control 3 x 230 V: 0.37 ... 1.1 kW, 3 x 400 V: 0.37 ... 2.2 kW, additional width: 135 mm	
	Disconnect switch with status feedback Operating element 1: forward/reverse/stop Operating element 2: local control/network control 3 x 230 V: 1.5 ... 3 kW, 3 x 400 V: 3 ... 5.5 kW, additional width: 135 mm	
<b>With disconnect switch, operating element and potentiometer</b>	Disconnect switch with status feedback Operating element: forward/reverse/stop Potentiometer: Setpoint frequency 3 x 230 V: 0.37 ... 1.1 kW, 3 x 400 V: 0.37 ... 2.2 kW, additional width: 135 mm	
	Disconnect switch with status feedback Operating element: forward/reverse/stop Potentiometer: Setpoint frequency 3 x 230 V: 1.5 ... 3 kW, 3 x 400 V: 3 ... 5.5 kW, additional width: 135 mm	
<b>Accessories</b>		
<b>Accessories</b>		
<b>Mains cables</b>	planned	



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# Accessories

By simply selecting the accessories, the operation of the inverter can be optimally adjusted. This is how a modern drive solution can be safely achieved.

The scalable concept enables easy selection, sophisticated accessories saves space and time during installation, and energy-efficient requirements can be optimally solved. Your benefits from this are more productivity and functional safety as well as sustainability and reliability.

For information on accessories, refer to the [Accessories brochure](#).







