



# Frequency inverter

0.25 ... 132 kW







# Lenze inverter – universally applicable.

A multifunctional all-rounder applicable for all cases – 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 apparatus 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
- Consumer goods machines
- Industrial air conditioning technology (pumps, fans & compressors)
- Construction machines
- Access control
- etc.

## Features

- The modular and scalable concept allows the selection of the inverter required for the respective application.
- The compact design allows an efficient installation for applications where space means money.
- Easy installation and OEM friendly as standard. Robust design for reducing cabling costs in large installations.
- Interaction for each application level – from simple to complex!
- Energy-efficient and high functionality

## The benefits for you

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



# Features at a glance.



## Compact design

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

The i5.0 devices impress with 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 apparatus 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

A good usability of the devices ranging from installation to service reduces working time, costs and errors in handling. This makes installation with keyhole mounting and plug-in terminals particularly convenient.

Programming your application is optimized for all application levels.

The smartphone app via WLAN provides only one of numerous interfaces to the device.



## Centralized/ decentralized

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

If your machine requires a lot of space, has a modular design or the space in the control cabinet is limited, we recommend a decentralized installation close to the motor. This serves to avoid the installation costs of e.g. expensive motor cables.

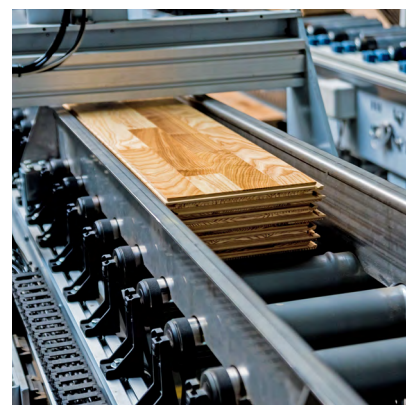
In many applications, a mixture of centralized and decentralized drive technology is advisable. Fortunately, the i5x0 cabinet and i5x0 protec inverters show the same drive behavior.



## IO-Link

For an intelligent integration of sensors and actuators, IO-Link is used increasingly. If the system already contains an IO-Link master, inverters can be integrated cost-effectively.

With the i550, Lenze is the first manufacturer to fulfil the IO-Link standard V1.1. This allows the inverter to be automatically parameterized for serial commissioning or in the event of service.



## Robustness

Applications, for instance in the timber industry or intralogistics, place high demands on the components of the machines regarding robustness. Harsh environments are no problem for the i550 protec.

Featuring the IP66 degree of protection (Indoor & Outdoor NEMA 4X), the technology inside the housing is protected against dust and the device can be safely cleaned using water jets.





# Configurable for all requirements.



[EASY Product Finder](#)

## Frequency inverter

Lenze offers a comprehensive inverter portfolio for mechanical engineering and apparatus construction. Whether control cabinet mounting, motor mounting or decentralized mounting with terminals or with complete connection technology – our independent advice is geared towards finding the best solution for your specific case.

The Lenze EASY Product Finder helps you 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

- Basic inverter IP20  
NEMA Open Type
- 0.25 ... 11 kW



### i550 cabinet

- Standard inverter IP20
- Universally applicable
- 0.25 ... 110 kW



### i550 protec

- Standard inverter IP31 or IP66
- Universally applicable
- 0.37 ... 11 KW (expansion up to 75 kW planned)



### 8400 motec

- Standard inverter for motor or wall mounting IP65
- Various connector options for power and signals for minimum installation expenses
- 0.37 ... 7.5 kW

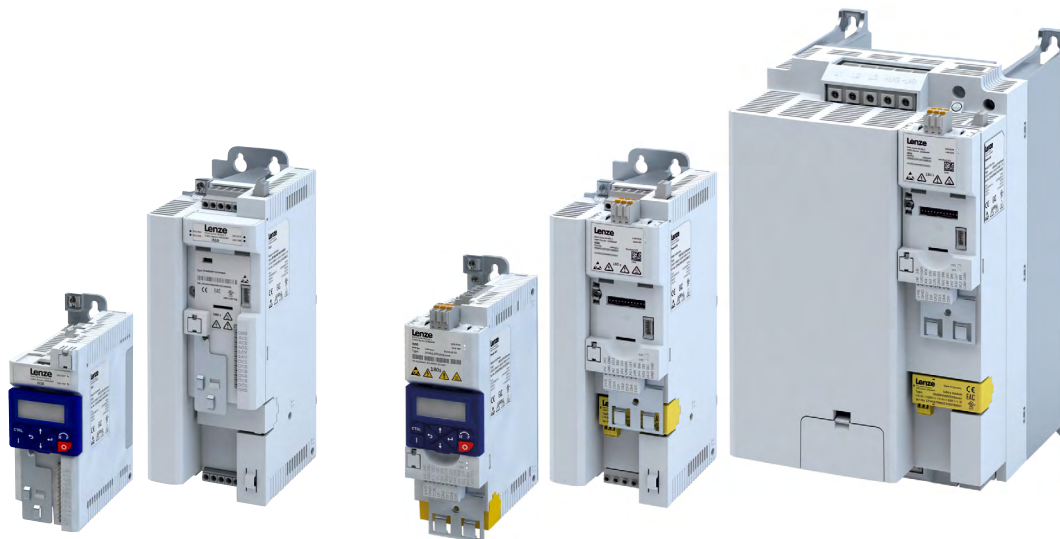


# i510 and i550 cabinet

i510 and i550 cabinet form the inverter series for the control cabinet in a power range of 0.25 ... 132 kW. They are distinguished by the following attributes – slim design, scalable functionality and exceptionally user-friendly. The simple i510 from 0.25 ... 11 kW and the universally applicable i550 from 0.25 ... 110 kW have the same DNA but differ in functionality and are optimized for a good price/performance ratio.

## Highlights

- Space saving design: 60 mm wide (up to 4 kW), 130 mm deep (up to 11 kW), with zero-clearance mounting
- Innovative interaction options enable better set-up times than ever.
- The wide-ranging modular system enables various product configurations depending on machine requirements
- Optionally with "Safe Torque Off (STO)" with SIL 3 (ISO 13849-1 (EN 954-1) ) and Performance Level e (EN 62061/EN 61800-5-2)
- Flexibility: Get the i550 as a complete device or in individual components (Power Unit, Control Unit and Safety Unit)





## i510 cabinet

### Power range

- 0.25 ... 11 kW

### Mounting

- 
- Installation

### Degree of protection

- IP20
- NEMA Open Type
- 
- 
- 
- 

### Approvals

- CE, UL, CSA, EAC, RoHS

### Connections

- 
- 1 AC 230 V
- 1/3 AC 230 V
- 3 AC 230 V
- 3 AC 400/480 V
- 
- Basic I/O:  
5x digital input  
1x digital output
- 
- 
- 
- 
- Basic I/O:  
2x analog input  
1x analog output
- 
- 
- 
- no
- 1x NO/NC relay (24 DC max. 2 A; 240 AC max. 3 A)
- 
- 
- Spring terminals
- Evaluation of motor PTC

### Overload behavior

- 200 % for 3 s; 150 % for 60 s

### Motor controls

- 
- Sensorless vector control for synchronous motors (up to 22 kW)
- Sensorless vector control (SLVC)
- Energy saving function (VFC-Eco)
- V/f characteristic control linear/square-law (VFC plus)
- 

### Functions

- DC-injection braking
- Brake management for brake control with low rate of wear
- 
- S-ramps for smooth acceleration and deceleration
- Flying restart circuit, PID controller
- DC connection

### Safety engineering

- 

### Networks

- CANopen, Modbus RTU

### Ambient temperature during operation

- 3K3 (-10 ... +55 °C) EN 60721-3-3 (derating of 2.5 %/°C above 45 °C)

## i550 cabinet

### Power range

- 0.25 ... 110 kW

### Mounting

- Wall mounting
- Installation

### Degree of protection

- IP20
- NEMA Open Type
- 
- 
- 
- 

### Approvals

- CE, UL, CSA, EAC, RoHS

### Connections

- 1 AC 120 V
- 1 AC 230 V
- 1/3 AC 230 V
- 3 AC 230 V
- 3 AC 400 V/480 V
- 
- Standard I/O  
5x digital input  
1x digital output
- 
- Application I/O:  
7x digital input  
1x digital output  
PNP/NPN logic
- Standard I/O  
2x analog input  
1x analog output
- Application I/O:  
2x analog input  
2x analog output
- Frequency input: 0 ... 100 kHz
- 1x NO/NC relay (24 DC max. 2 A; 240 AC max. 3 A)
- External 24 V supply and internal 24 V power supply unit
- 
- Spring terminals, plug-in
- Evaluation of motor PTC

### Overload behavior

- 200 % for 3s; 150 % for 60s

### Motor controls

- Servo control (SC-ASM) with feedback
- Sensorless vector control for synchronous motors (up to 22 kW)
- Sensorless vector control (SLVC)
- Energy saving function (VFC-Eco)
- V/f characteristic control linear/square-law (VFC plus)
- V/f characteristic control with feedback

### Functions

- DC-injection braking
- Brake management for brake control with low rate of wear
- Dynamic braking through brake resistor
- S-ramps for smooth acceleration and deceleration
- Flying restart circuit, PID controller
- DC connection

### Safety engineering

- Safe Torque Off (STO)

### Networks

- CANopen, Modbus RTU, Modbus TCP, IO-Link, EtherCAT, EtherNET/IP, PROFIBUS, PROFINET, POWERLINK

### Ambient temperature during operation

- 3K3 (-10 ... +55 °C) EN 60721-3-3 (derating of 2.5 %/°C above 45 °C)

# i550 protec

i550 protec uses the same tried-and-tested technology used in i550 cabinet and only differs in terms of a higher degree of housing protection with an adapted design. If your machine requires a lot of space, has a modular design or the space in the control cabinet is limited, the universally applicable i550 protec (IP31 and IP66 degree of protection) from 0.37 kW ... 11 kW (expansion up to 75 kW planned) is the ideal solution for a decentralized installation close to the motor.

## Highlights

- IP66 degree of protection (Indoor & Outdoor NEMA 4X) with protection against high pressure water jets from any direction and dust tightness allows for use in harsh environment applications
- USB Micro diagnostic interface on board
- Optionally available with extension box with or without service switches
- Optionally available with keypad or WLAN diagnostic module
- Optionally available with "Safe Torque Off (STO)" with SIL 3 (ISO 13849-1 (EN 954-1) ) and Performance Level e (EN 62061/EN 62061/EN 61800-5-2)





**i550 protec****Power range**

- 0.37 ... 11 kW

**Mounting**

- Wall mounting
- Installation

**Degree of protection**

- IP31
- NEMA 1
- IP66
- NEMA 4 x
- 
- 

**Approvals**

- CE, UL, CSA, EAC, RoHS

**Connections**

- 1 AC 120 V
- 1 AC 230 V
- 1/3 AC 230 V
- 3 AC 230 V
- 3 AC 400/480 V
- 3 AC 480 V/600 V
- Standard I/O:
  - 5x digital input
  - 1x digital output
  - 
  - 
  - 
  -
- PNP/NPN logic
- Standard I/O:
  - 2x analog input
  - 1x analog output
  - 
  - 
  -
- Frequency input: 0 ... 100 kHz
- 1x NO/NC relay (24 DC max. 2 A; 240 AC max. 3 A)
- External 24 V supply and internal 24 V power supply unit
- Spring terminals
- Evaluation of motor PTC

**Overload behavior**

- 200 % for 3 s; 150 % for 60 s

**Motor controls**

- Servo control (SC-ASM) with feedback
- Sensorless vector control for synchronous motors (up to 22 kW)
- Sensorless vector control (SLVC)
- Energy saving function (VFC-Eco)
- V/f characteristic control linear/square-law (VFC plus)
- V/f characteristic control with feedback

**Functions**

- DC-injection braking
- Brake management for brake control with low rate of wear
- Dynamic braking through brake resistor
- S-ramps for smooth acceleration and deceleration
- Flying restart circuit, PID controller
- DC connection

**Safety engineering**

- Safe Torque Off (STO)

**Networks**

- CANopen, Modbus RTU, Modbus TCP, IO-Link, EtherCAT, EtherNET/IP, PROFINET

**Ambient temperature during operation**

- 3K3 (-10 ... +55 °C) EN 60721-3-3 (derating of 2.5 %/°C above 45 °C)

# 8400 motec

The 8400 motec is a frequency inverter for decentralized installation from 0.37 ... 7.5 kW in IP65. In the three basic variants for motor mounting, wall mounting or wall mounting with service switch, it already offers a high degree of flexible solutions. Wherever the focus is on a safe and fast installation of drives, the 8400 motec is the most beneficial solution, e.g. in spatially distributed applications.

**Motor mounting:**

In the case of motor mounting, the 8400 motec can be operated without derating regardless of the alignment. Compact solution with Lenze MF motor (120 Hz).

**Wall mounting:**

Compact and flexible solution for wall mounting in IP65.

**Wall mounting with service switch:**

Wall-mounted device with 3 maintenance switches. Options for maximum flexibility in IP54.

## Highlights

- Compact design
- High degree of functionality, e.g. integrated brake rectifier
- M12 signal connector for fieldbuses, IOs, external 24 V supply and STO
- High variety of mains plugs for Harting Q4/2 (single or double), M15 or QUICKON QPD
- Wall mounting without derating





## 8400 motec

### Power range

- 0.25 ... 7.5 kW

### Mounting

- Wall mounting
- Motor mounting

### Degree of protection

- IP66
- IP54 (with switching unit)
- 
- 
- 

### Approvals

- CE, UL, CSA, EAC, RoHS

### Connections

- 
- 
- 
- 
- 3 AC 400/480 V
- 
- Standard I/O:
  - 5x digital input
  - 1x digital output
  - 1 inverter enable
- 
- 
- PNP/NPN logic
- 
- 
- 
- 
- 
- 
- Frequency input: 0 ... 10 kHz
- 1x NO/NC relay
- External 24 V supply together with Ethernet-based fieldbuses and PROFIBUS
- 
- Evaluation of motor PTC

### Overload behavior

- 200 % for 3 s; 150 % for 60 s

### Motor controls

- 
- Sensorless vector control for synchronous motors
- Sensorless vector control (SLVC)
- Energy saving function (VFC-Eco)
- V/f characteristic control linear/square-law (VFC plus)
- V/f characteristic control with feedback

### Functions

- DC-injection braking
- Brake management for brake control with low rate of wear with integrated brake rectifier
- Dynamic braking through brake resistor
- S-ramps for smooth acceleration and deceleration
- Flying restart circuit, PID controller
- 

### Safety engineering

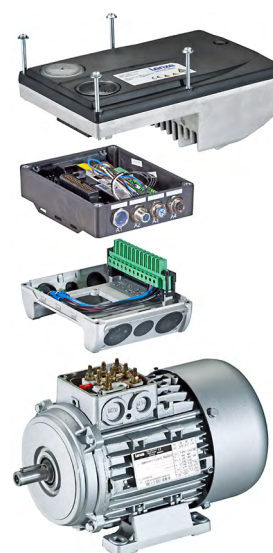
Safe Torque Off (STO)

### Networks

- CANopen, EtherCAT, EtherNET/IP, PROFIBUS, PROFINET, ASi

### Ambient temperature during operation

- 3K3 (-30 ... +55 °C) EN 60721-3-3 (derating of 2.5 %/°C above 45 °C)



# Technical data

## i510 cabinet inverter

Connection to 230 V mains

<b>Conformities</b>	CE	2014/35/EU, 2014/30/EU
	EAC	TR TC 004/2011, TP TC 020/2011
	RoHS 2	2011/65/EU
<b>Approvals</b>	cUL <sub>US</sub>	UL 61800-5-1, CSA 22.2 No. 274
<b>Energy efficiency</b>	Class IE2	EN 50598-2
<b>Degree of protection</b>	IP20	EN 60529 (except in the wire range of terminals)
		NEMA 250 (type 1 protection against accidental contact only)
	Open type	Only in UL-approved systems
<b>Power systems</b>	TT, TN	Voltage to earth: max. 300 V
	IT	Apply the measures described for IT systems!
<b>Mains switching</b>		3 x within one minute possible
<b>Operation with residual current circuit breaker</b>		Up to 2.2 kW 30 mA
<b>Max. cable length for EMC</b>	Category C2	20 m ( $\leq 0.37$ kW max. 15 m)
	Category C3	$\geq 35$ m ( $\leq 0.37$ kW max. 15 m)
<b>Switching frequencies</b>		2, 4, 8, 16 kHz. The rated output currents apply at 45 °C and switching frequencies of 2 and 4 kHz, and at 40 °C and switching frequencies of 8 and 16 kHz
<b>Max. ambient temperature</b>		55 °C (derating of 2.5 %/°C above 45 °C)
<b>Max. output frequency</b>		0 Hz ... 599 Hz
<b>Overload capacity</b>		200 % for 3s; 150 % for 60s

	Rated power	Mains voltage range	Rated output current	Weight	Dimensions (h x w x d)
	[kW]	[V]	[A]	[kg]	[mm]
<b>1-phase inverter with integrated RFI filter</b>					
i510-C0.25/230-1	0.25	1/N/PE AC 170 V ... 264 V 45 Hz ... 65 Hz	1.7	0.75	155 x 60 x 130
i510-C0.37/230-1	0.37		2.4	0.75	155 x 60 x 130
i510-C0.55/230-1	0.55		3.2	0.95	180 x 60 x 130
i510-C0.75/230-1	0.75		4.2	0.95	180 x 60 x 130
i510-C1.1/230-1	1.1		6	1.35	250 x 60 x 130
i510-C1.5/230-1	1.5		7	1.35	250 x 60 x 130
i510-C2.2/230-1	2.2		9.6	1.35	250 x 60 x 130
<b>1/3-phase inverter 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 Hz ... 65 Hz	1.7	0.75	155 x 60 x 130
i510-C0.37/230-2	0.37		2.4	0.75	155 x 60 x 130
i510-C0.55/230-2	0.55		3.2	0.95	180 x 60 x 130
i510-C0.75/230-2	0.75		4.2	0.95	180 x 60 x 130
i510-C1.1/230-2	1.1		6	1.35	250 x 60 x 130
i510-C1.5/230-2	1.5		7	1.35	250 x 60 x 130
i510-C2.2/230-2	2.2		9.6	1.35	250 x 60 x 130
<b>3-phase inverter without integrated RFI filter</b>					
i510-C4.0/230-3	4	3/PE AC	16.5	2.1	250 x 90 x 130
i510-C5.5/230-3	5.5	170 V ... 264 V 45 Hz ... 65 Hz	23	2.1	250 x 90 x 130



## i510 cabinet inverter

Connection to 400 V mains

<b>Conformities</b>	CE	2014/35/EU, 2014/30/EU
	EAC	TR TC 004/2011, TP TC 020/2011
	RoHS 2	2011/65/EU
<b>Approvals</b>	cULus	UL 61800-5-1, CSA 22.2 No. 274
<b>Energy efficiency</b>	Class IE2	EN 50598-2
<b>Degree of protection</b>	IP20	EN 60529 (except in the wire range of terminals)
		NEMA 250 (type 1 protection against accidental contact only)
	Open type	Only in UL-approved systems
<b>Power systems</b>	TT, TN	Voltage to earth: max. 300 V
	IT	Apply the measures described for IT systems!
<b>Mains switching</b>		3 x within one minute possible
<b>Operation with residual current circuit breaker</b>		Up to 4 kW 30 mA
<b>Max. cable length for EMC</b>	Category C2	20 m ( $\leq 0.37$ kW max. 15 m)
	Category C3	35 m ( $\leq 0.37$ kW max. 15 m)
<b>Switching frequencies</b>		2, 4, 8, 16 kHz. The rated output currents apply at 45 °C and switching frequencies of 2 and 4 kHz, and at 40 °C and switching frequencies of 8 and 16 kHz
<b>Max. ambient temperature</b>		55 °C (derating of 2.5 %/°C above 45 °C)
<b>Max. output frequency</b>		0 Hz ... 599 Hz
<b>Overload capacity</b>		200 % for 3s; 150 % for 60s

	Rated power	Mains voltage range	Rated output current	Weight	Dimensions (h x w x d)
	[kW]	[V]	[A]	[kg]	[mm]
<b>3-phase inverter with integrated RFI filter</b>					
i510-C0.37/400-3	0.37	3/PE AC 340 V ... 528 V 45 Hz ... 65 Hz	1.3	0.75	155 x 60 x 130
i510-C0.55/400-3	0.55		1.8	0.95	180 x 60 x 130
i510-C0.75/400-3	0.75		2.4	0.95	180 x 60 x 130
i510-C1.1/400-3	1.1		3.2	1.35	250 x 60 x 130
i510-C1.5/400-3	1.5		3.9	1.35	250 x 60 x 130
i510-C2.2/400-3	2.2		5.6	1.35	250 x 60 x 130
i510-C3.0/400-3	3		7.3	1.35	250 x 60 x 130
i510-C4.0/400-3	4		9.5	1.35	250 x 60 x 130
i510-C5.5/400-3	5.5		13	2.3	250 x 90 x 130
i510-C7.5/400-3	7.5		16.5	3.7	276 x 120 x 130
i510-C11/400-3	11		23.5	3.7	276 x 120 x 130
<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 Hz ... 65 Hz	8.8	1.35	250 x 60 x 130
i510-C4.0/400-3	5.5		11.9	1.35	250 x 60 x 130
i510-C5.5/400-3	7.5		15.6	2.3	250 x 90 x 130
i510-C7.5/400-3	11		23	3.7	276 x 120 x 130
i510-C11/400-3	15		28.2	3.7	276 x 120 x 130

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

# i550 cabinet inverter

Connection to 120 V mains and 230 V mains

<b>Conformities</b>	CE	2014/35/EU, 2014/30/EU
	EAC	TR TC 004/2011, TP TC 020/2011
	RoHS 2	2011/65/EU
<b>Approvals</b>	CULUS	UL 61800-5-1, CSA 22.2 No. 274
<b>Energy efficiency</b>	Class IE2	EN 50598-2
<b>Degree of protection</b>	IP20	EN 60529 (except in the wire range of terminals)
		NEMA 250 (type 1 protection against accidental contact only)
	Open type	Only in UL-approved systems
<b>Power systems</b>	TT, TN	Voltage to earth: max. 300 V
	IT	Apply the measures described for IT systems!
<b>Mains switching</b>		3 x within one minute possible
<b>Operation with residual current circuit breaker</b>		up to 2.2 kW 30 mA, above this 300 mA
<b>Max. cable length for EMC</b>	Category C2	20 m ( $\leq 0.37$ kW max. 15 m)
	Category C3	$\geq 35$ m ( $\leq 0.37$ kW max. 15 m)
<b>Switching frequencies</b>		2, 4, 8, 16 kHz. The rated output currents apply at 45 °C and switching frequencies of 2 and 4 kHz, and at 40 °C and switching frequencies of 8 and 16 kHz
<b>Max. ambient temperature</b>		55 °C (derating of 2.5 %/°C above 45 °C)
<b>Max. output frequency</b>		0 Hz ... 599 Hz
<b>Overload capacity</b>		200 % for 3s; 150 % for 60s

	Rated power	Mains voltage range	Rated output current	Weight	Dimensions (h x w x d)
	[kW]	[V]	[A]	[kg]	[mm]
<b>1-phase mains connection 120 V without integrated RFI filter</b>					
i550-C0.25/120-1	0.25	1/N/PE AC 90 V ... 132 V 45 Hz ... 65 Hz	1.7	1	180 x 60 x 130
i550-C0.37/120-1	0.37		2.4	1	180 x 60 x 130
i550-C0.75/120-1	0.75		4.2	1.35	250 x 60 x 130
i550-C1.1/120-1	1.1		6	1.35	250 x 60 x 130
<b>1-phase mains connection 230/240 V with integrated RFI filter</b>					
i550-C0.25/230-1	0.25	1/N/PE AC 170 V ... 264 V 45 Hz ... 65 Hz	1.7	0.8	155 x 60 x 130
i550-C0.37/230-1	0.37		2.4	0.8	155 x 60 x 130
i550-C0.55/230-1	0.55		3.2	1	180 x 60 x 130
i550-C0.75/230-1	0.75		4.2	1	180 x 60 x 130
i550-C1.1/230-1	1.1		6	1.35	250 x 60 x 130
i550-C1.5/230-1	1.5		7	1.35	250 x 60 x 130
i550-C2.2/230-1	2.2		9.6	1.35	250 x 60 x 130
<b>1-phase mains connection 230/240 V without integrated RFI filter</b>					
i550-C0.25/230-2	0.25	1/N/PE A 170 V ... 264 V 45 Hz ... 65 Hz	1.7	0.8	155 x 60 x 130
i550-C0.37/230-2	0.37		2.4	0.8	155 x 60 x 130
i550-C0.55/230-2	0.55		3.2	1	180 x 60 x 130
i550-C0.75/230-2	0.75		4.2	1	180 x 60 x 130
i550-C1.1/230-2	1.1		6	1.35	250 x 60 x 130
i550-C1.5/230-2	1.5		7	1.35	250 x 60 x 130
i550-C2.2/230-2	2.2		9.6	1.35	250 x 60 x 130
<b>3-phase mains connection 230/240 V without integrated RFI filter</b>					
i550-C0.25/230-2	0.25	3/PE AC 170 V ... 264 V 45 Hz ... 65 Hz	1.7	0.8	155 x 60 x 130
i550-C0.37/230-2	0.37		2.4	0.8	155 x 60 x 130
i550-C0.55/230-2	0.55		3.2	1	180 x 60 x 130
i550-C0.75/230-2	0.75		4.2	1	180 x 60 x 130
i550-C1.1/230-2	1.1		6	1.35	250 x 60 x 130
i550-C1.5/230-2	1.5		7	1.35	250 x 60 x 130
i550-C2.2/230-2	2.2		9.6	1.35	250 x 60 x 130
i550-C4.0/230-3	4		16.5	2.1	250 x 90 x 130
i550-C5.5/230-3	5.5		23	2.1	250 x 90 x 130

# i550 cabinet inverter

Connection to 400 V mains

<b>Conformities</b>	CE	2014/35/EU, 2014/30/EU
	EAC	TR TC 004/2011, TP TC 020/2011
	RoHS 2	2011/65/EU
<b>Approvals</b>	CULUS	UL 61800-5-1, CSA 22.2 No. 274
<b>Energy efficiency</b>	Class IE2	EN 50598-2
<b>Degree of protection</b>	IP20	EN 60529 (except in the wire range of terminals)
		NEMA 250 (type 1 protection against accidental contact only)
	Open type	Only in UL-approved systems
<b>Power systems</b>	TT, TN	Voltage to earth: max. 300 V
	IT	Apply the measures described for IT systems!
<b>Mains switching</b>		3 x within one minute possible
<b>Operation with residual current circuit breaker</b>		Up to 4 kW 30 mA
<b>Max. cable length for EMC</b>	Category C2	20 m ( $\leq 0.37$ kW max. 15 m)
	Category C3	35 m ( $\leq 0.37$ kW max. 15 m)
<b>Switching frequencies</b>		2, 4, 8, 16 kHz. The rated output currents apply at 45 °C and switching frequencies of 2 and 4 kHz, and at 40 °C and switching frequencies of 8 and 16 kHz
<b>Max ambient temperature</b>		55 °C (derating of 2.5 %/°C above 45 °C)
<b>Max. output frequency</b>		0 Hz ... 599 Hz
<b>Overload capacity</b>		200 % for 3s; Heavy Duty: 150 % for 60s; Light Duty: 120 % for 60s

	Rated power	Mains voltage range	Rated output current	Weight	Dimensions (h x w x d)
	[kW]	[V]	[A]	[kg]	[mm]
<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 Hz ... 65 Hz	1.3	0.8	155 x 60 x 130
i550-C0.55/400-3	0.55		1.8	1	180 x 60 x 130
i550-C0.75/400-3	0.75		2.4	1	180 x 60 x 130
i550-C1.1/400-3	1.1		3.2	1.35	250 x 60 x 130
i550-C1.5/400-3	1.5		3.9	1.35	250 x 60 x 130
i550-C2.2/400-3	2.2		5.6	1.35	250 x 60 x 130
i550-C3.0/400-3	3		7.3	1.35	250 x 60 x 130
i550-C4.0/400-3	4		9.5	1.35	250 x 60 x 130
i550-C5.5/400-3	5.5		13	2.3	250 x 90 x 130
i550-C7.5/400-3	7.5		16.5	3.7	276 x 120 x 130
i550-C11/400-3	11		23.5	3.7	276 x 120 x 130
i550-C15/400-3	15		32	10.3	347 x 204.5 x 222
i550-C18/400-3	18.5		40	10.3	347 x 204.5 x 222
i550-C22/400-3	22		47	10.3	347 x 204.5 x 222
i550-C30/400-3	30		61	17.2	450 x 250 x 230
i550-C37/400-3	37		76	17.2	450 x 250 x 230
i550-C45/400-3	45		89	17.2	450 x 250 x 230
i550-C55/400-3	55		110	24	536 x 250 x 265
i550-C75/400-3	75		150	24	536 x 250 x 265
i550-C90/400-3	90		180	35.6	685 x 258 x 304
i550-C110/400-3	110	212	35.6	685 x 258 x 304	
<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 Hz ... 65 Hz	8.8	1.35	250 x 60 x 130
i550-C4.0/400-3	5.5		11.9	1.35	250 x 60 x 130
i550-C5.5/400-3	7.5		15.6	2.3	250 x 90 x 130
i550-C7.5/400-3	11		23	3.7	276 x 120 x 130
i550-C11/400-3	15		28.2	3.7	276 x 120 x 130
i550-C15/400-3	18.5		38.4	10.3	347 x 204.5 x 222
i550-C18/400-3	22		48	10.3	347 x 204.5 x 222
i550-C22/400-3	30		56.4	10.3	347 x 204.5 x 222
i550-C30/400-3	37		73.2	17.2	450 x 250 x 230
i550-C37/400-3	45		91.2	17.2	450 x 250 x 230
i550-C45/400-3	55		107	17.2	450 x 250 x 230
i550-C55/400-3	75		132	24	536 x 250 x 265
i550-C75/400-3	90		180	24	536 x 250 x 265
i550-C90/400-3	110		216	35.6	685 x 258 x 304
i550-C110/400-3	132		254	35.6	685 x 258 x 304

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



# i550 protec inverter

Connection to 120 V mains and 230 V mains with IP66 degree of protection

<b>Conformities</b>	CE	2014/35/EU, 2014/30/EU
	EAC	TP TC 004/2011, TP TC 020/2011
	RoHS 2	2011/65/EU
<b>Approvals</b>	UL	UL 61800-5-1, CSA 22.2 No. 274
<b>Energy efficiency</b>	Class IE2	EN 50598-2
<b>Degree of protection</b>	IP31	EN 60529 (not in the wire range of terminals)
	IP66	EN 60034-5
	NEMA 250	Type 1 (only protection against accidental contact)
	NEMA 250	Type 4X
	3M3 (for IP66)	EC 60721-3-3 (for mechanical, active substances)
	3C2 (for IP66)	EC 60721-3-3 (for chemical, active substances)
<b>Power systems</b>	TN	Voltage to earth: max. 300 V
<b>Mains switching</b>		3 x within one minute possible
<b>Operation with residual current circuit breaker</b>		Up to 11 kW 30 mA
<b>Max. cable length for EMC</b>	Category: C2 category C3	20 m ( $\leq 0.37$ kW max. 15 m, 8 m for 1ph/230 V) 35 m ( $\leq 0.37$ kW max. 15 m)
<b>Switching frequencies</b>		2, 4, 8, 12, 16 kHz. The rated output currents apply at 45 °C and switching frequencies of 2 and 4 kHz, and at 40 °C and switching frequencies of 8, 12 and 16 kHz
<b>Max. ambient temperature</b>		55 °C (derating of 2.5 %/°C above 45 °C)
<b>Max. output frequency</b>		0 Hz ... 599 Hz
<b>Overload capacity</b>		200 % for 3s; Heavy Duty: 150 % for 60s; Light Duty: 120 % for 60s (IP31 devices)

	Rated power	Mains voltage range	Rated output current	Degree of protection	Weight	Dimensions (h x w x d)
	[kW]	[V]	[A]		[kg]	[mm]
<b>1-phase mains connection 120 V without integrated RFI filter</b>						
i550-P0.37/120-1	0.37	1/N/PE AC	2.4	IP66	1.8	190 x 140 x 117
i550-P0.75/120-1	0.75	90 V ... 132 V	4.2	IP66	2.7	205 x 140 x 140
i550-P1.1/120-1	1.1	45 Hz ... 65 Hz	6	IP66	2.7	205 x 140 x 140
<b>1-phase mains connection 230/240 V - Heavy Duty with integrated RFI filter</b>						
i550-P0.37/230-2	0.37	1/N/PE AC 170 V ... 264 V 45 Hz ... 65 Hz	2.4	IP66	1.7	190 x 140 x 117
i550-P0.55/230-2	0.55		3.2	IP66	1.7	190 x 140 x 117
i550-P0.75/230-2	0.75		4.2	IP66	1.7	190 x 140 x 117
i550-P1.1/230-2	1.1		6	IP66	2.6	205 x 140 x 140
i550-P1.5/230-2	1.5		7	IP66	2.6	205 x 140 x 140
i550-P2.2/230-2	2.2		9.6	IP66	2.6	205 x 140 x 140
<b>1-phase mains connection 230/240 V - Heavy Duty without integrated RFI filter</b>						
i550-P0.37/230-2	0.37	1/N/PE AC 170 V ... 264 V 45 Hz ... 65 Hz	2.4	IP66	1.7	190 x 140 x 117
i550-P0.55/230-2	0.55		3.2	IP66	1.7	190 x 140 x 117
i550-P0.75/230-2	0.75		4.2	IP66	1.7	190 x 140 x 117
i550-P1.1/230-2	1.1		6	IP66	2.6	205 x 140 x 140
i550-P1.5/230-2	1.5		7	IP66	2.6	205 x 140 x 140
i550-P2.2/230-2	2.2		9.6	IP66	2.6	205 x 140 x 140
<b>3-phase mains connection 230/240 V - Heavy Duty without integrated RFI filter</b>						
i550-P0.37/230-2	0.37	3/PE AC 340 V ... 528 V 45 Hz ... 65 Hz	2.4	IP66	1.7	190 x 140 x 117
i550-P0.55/230-2	0.55		3.2	IP66	1.7	190 x 140 x 117
i550-P0.75/230-2	0.75		4.2	IP66	1.7	190 x 140 x 117
i550-P1.1/230-2	1.1		6	IP66	2.6	205 x 140 x 140
i550-P1.5/230-2	1.5		7	IP66	2.6	205 x 140 x 140
i550-P2.2/230-2	2.2		9.6	IP66	2.6	205 x 140 x 140
i550-P3.0/230-3	3		12	IP66	4.8	250 x 180 x 170
i550-P4.0/230-3	4		16.5	IP66	4.8	250 x 180 x 170
i550-P5.5/230-3	5.5		23	IP66	4.8	250 x 180 x 170
i550-P7.5/230-3	7.5		29	IP66	5	290 x 180 x 170
i550-P11/230-3	11		42	IP66	5	290 x 180 x 170

## i550 protec inverter

Connection to 400 V mains with IP66 degree of protection

<b>Conformities</b>	CE	2014/35/EU, 2014/30/EU
	EAC	TP TC 004/2011, TP TC 020/2011
	RoHS 2	2011/65/EU
<b>Approvals</b>	UL	UL 61800-5-1, CSA 22.2 No. 274
<b>Energy efficiency</b>	Class IE2	EN 50598-2
<b>Degree of protection</b>	IP31	EN 60529 (not in the wire range of terminals)
	IP66	EN 60034-5
	NEMA 250	Type 1 (only protection against accidental contact)
	NEMA 250	Type 4X
	3M3 (for IP66)	EC 60721-3-3 (for mechanical, active substances)
	3C2 (for IP66)	EC 60721-3-3 (for chemical, active substances)
<b>Power systems</b>	TN	Voltage to earth: max. 300 V
<b>Mains switching</b>		3 x within one minute possible
<b>Operation with residual current circuit breaker</b>		Up to 11 kW 30 mA
<b>Max. cable length for EMC</b>	Category: C2 category C3	20 m ( $\leq 0.37$ kW max. 15 m) 35 m ( $\leq 0.37$ kW max. 15 m)
<b>Switching frequencies</b>		2, 4, 8, 12, 16 kHz. The rated output currents apply at 45 °C and switching frequencies of 2 and 4 kHz, and at 40 °C and switching frequencies of 8, 12 and 16 kHz
<b>Max. ambient temperature</b>		55 °C (derating of 2.5 %/°C above 45 °C)
<b>Max. output frequency</b>		0 Hz ... 599 Hz
<b>Overload capacity</b>		200 % for 3s; Heavy Duty: 150 % for 60s; Light Duty: 120 % for 60s (IP31 devices)

	Rated power	Mains voltage range	Rated output current	Degree of protection	Weight	Dimensions (h x w x d)
	[kW]	[V]	[A]		[kg]	[mm]
<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 Hz ... 65 Hz	1.3	IP66	1.8	190 x 140 x 117
i550-P0.55/400-3	0.55		1.8	IP66	1.8	190 x 140 x 117
i550-P0.75/400-3	0.75		2.4	IP66	1.8	190 x 140 x 117
i550-P1.1/400-3	1.1		3.2	IP66	2.7	205 x 140 x 140
i550-P1.5/400-3	1.5		3.9	IP66	2.7	205 x 140 x 140
i550-P2.2/400-3	2.2		5.6	IP66	2.7	205 x 140 x 140
i550-P3.0/400-3	3		7.3	IP66	4.9	250 x 180 x 170
i550-P4.0/400-3	4		9.5	IP66	4.9	250 x 180 x 170
i550-P5.5/400-3	5.5		13	IP66	4.9	250 x 180 x 170
i550-P7.5/400-3	7.5		16.5	IP66	5.1	290 x 180 x 170
i550-P11/400-3	11		23.5	IP66	5.1	290 x 180 x 170



## 8400 motec inverter

Connection to 400 V mains

<b>Conformities</b>	CE	2014/35/EU, 2014/30/EU
	EAC	TP TC 004/2011, TP TC 020/2011
	RoHS 2	2011/65/EU
<b>Approvals</b>	UL	UL 508C, CSA 22.2 No. 274
<b>Degree of protection</b>	IP65	EN 60529 Frame Unit service switch with protective function: IP64 Frame Unit service switch: IP54 Frame Unit service switch with control elements: IP54
	NEMA 250	Type 1 (only protection against accidental contact)
	NEMA 250	Type x (only indoor), wall mounting 0.37 kW ... 3 kW type 12
<b>Power systems</b>	TN	Voltage to earth: max. 300 V
<b>Mains switching</b>		3 x within one minute possible
<b>Operation with residual current circuit breaker</b>		30 mA, type B, in case of motor mounting or wall mounting with Lenze system cable < 3 m 300 mA, type B, in case of wall mounting with Lenze system cable > 3 m or in case of motor mounting, 4.0 ... 7.5 kW, $f_{ch} = 4$ kHz
<b>Max. cable length for EMC</b>	Category C2	< 20 m in case of wall mounting with Lenze system cable, $f_{ch} \leq 4$ kHz < 10 m in case of wall mounting with Lenze system cable, $f_{ch} \leq 8$ kHz
<b>Switching frequencies</b>		4, 8, 16 kHz. The rated output currents listed below apply at 45 °C and a switching frequency of 4 kHz, and at 40 °C and switching frequencies of 8 and 16 kHz
<b>Max. ambient temperature</b>		55 °C (derating of 2.5 %/°C above 45 °C)
<b>Max. output frequency</b>		0 Hz ... 599 Hz
<b>Overload capacity</b>		200 % for 3s; 150 % for 60s




	Rated power	Mains voltage range	Rated output current	Degree of protection	Weight	Dimensions (h x w x d)
	[kW]	[V]	[A]		[kg]	[mm]
<b>3-phase mains connection 400 V – Heavy Duty with integrated RFI filter</b>						
<b>E84DGDVB37142PS</b>	0.37	3/PE AC 340 V ... 528 V 45 Hz ... 65 Hz	1.3	IP54	Varies depending on motor or wall mounting and accessories	
<b>E84DGDVB55142PS</b>	0.55		1.8	IP54		
<b>E84DGDVB75142PS</b>	0.75		2.4	IP54		
<b>E84DGDVB11242PS</b>	1.1		3.2	IP54		
<b>E84DGDVB15242PS</b>	1.5		3.9	IP54		
<b>E84DGDVB22242PS</b>	2.2		5.6	IP54		
<b>E84DGDVB30242PS</b>	3		7.3	IP54		
<b>E84DGDVB40242PS</b>	4		9.5	IP54		
<b>E84DGDVB55242PS</b>	5.5		13	IP54		
<b>E84DGDVB75242PS</b>	7.5		16.5	IP54		



# Product extensions


## Diagnostics and operation of the i5x0 cabinet

For diagnostics and parameterization, the keypad, the Lenze SMART Keypad app (iOS and Android) or the EASY Starter can be used.

Inverter	External keypad	Keypad	WLAN	USB
				
i550-Cxxx/120-1	I5MADR0000000S			I5MADU0000000S
i5x0-Cxxx/230-1	3 m cable			3 m cable
i5x0-Cxxx/230-2	I5MADR0000001S	I5MADK0000000S	I5MADW0000000S	EWL0085/S
i550-Cxxx/230-3	5 m cable			5 m cable
i5x0-Cxxx/400-3	I5MADR0000002S			EWL0086/S

## Functional safety for i5x0 cabinet

The safety function STO can also be ordered at a later date and retrofitted.

Inverter	Safety function STO (Safe Torque Off)
	
i550-Cxxx/120-1	
i550-Cxxx/230-1	
i550-Cxxx/230-2	I5MASAV0000000S
i550-Cxxx/230-3	
i550-Cxxx/400-3	

# Accessories

## Mains choke for i5x0 cabinet

i550 cabinet: generally prescribed from 22 kW (for Light Duty from 15 kW)

i500 protec: integrated in the device if required ( $\geq 30$  kW)

- Mains chokes reduce the effects of the inverter on the supplying mains by smoothing the harmonics.
- The effective mains current is reduced which saves energy.
- Mains chokes can be used without restrictions in conjunction with RFI filters.
- Please note that the use of a mains choke reduces the mains voltage at the input of the inverter by 4 % (typical voltage drop across the mains choke).

Rated power	Mains choke	Degree of protection	Dimensions (h x w x d)
kW			mm
<b>Operation at 1 x 120 V</b>			
0.25	ELN1-0500H009	IP20	75 x 66 x 82
0.37	ELN1-0500H009	IP20	75 x 66 x 82
0.75	ELN1-0250H018	IP20	96 x 96 x 90
1.10	ELN1-0250H018	IP20	96 x 96 x 90
<b>Operation at 1 x 230 V</b>			
0.25	ELN1-0900H005	IP20	75 x 66 x 82
0.37	ELN1-0900H005	IP20	75 x 66 x 82
0.55	ELN1-0500H009	IP20	75 x 66 x 82
0.75	ELN1-0500H009	IP20	75 x 66 x 82
1.10	ELN1-0250H018	IP20	96 x 96 x 90
1.50	ELN1-0250H018	IP20	96 x 96 x 90
2.20	ELN1-0250H018	IP20	96 x 96 x 90
<b>Operation at 1 x 230 V or at 3 x 230 V</b>			
0.25	EZAELN3002B153	IP20	56 x 77 x 100
0.37	EZAELN3004B742	IP20	60 x 95 x 115
0.55	EZAELN3004B742	IP20	60 x 95 x 115
0.75	EZAELN3006B492	IP20	69 x 95 x 120
1.10	EZAELN3006B492	IP20	69 x 95 x 120
1.50	EZAELN3008B372	IP20	85 x 120 x 140
2.20	EZAELN3010B292	IP20	85 x 120 x 140
<b>Operation at 3 x 230 V</b>			
4.0	EZAELN3016B182	IP20	95 x 120 x 140
5.5	EZAELN3025B122	IP20	110 x 155 x 170

Rated power	Mains choke	Degree of protection	Dimensions (h x w x d)
kW			mm
<b>Operation at 3 x 400 V</b>			
0.37	EZAELN3002B203	IP20	56 x 77 x 100
0.55	EZAELN3002B153	IP20	56 x 77 x 100
0.75	EZAELN3004B742	IP20	60 x 95 x 115
1.10	EZAELN3004B742	IP20	60 x 95 x 115
1.50	EZAELN3004B742	IP20	60 x 95 x 115
2.20	EZAELN3006B492	IP20	69 x 95 x 120
3.0	EZAELN3008B372	IP20	85 x 120 x 140
4.0	EZAELN3010B292	IP20	85 x 120 x 140
5.50	EZAELN3016B182	IP20	95 x 120 x 140
7.50	EZAELN3016B182	IP20	95 x 120 x 140
11	EZAELN3025B122	IP20	110 x 155 x 170
15	EZAELN3030B981	IP20	110 x 155 x 170
18.5	EZAELN3040B741	IP20	112 x 185 x 200
22	EZAELN3045B651	IP20	112 x 185 x 200
30	EZAELN3063B471	IP20	122 x 185 x 210
37	EZAELN3080B371	IP20	125 x 210 x 240
45	EZAELN3080B371	IP20	125 x 210 x 240
55	EZAELN3100B301	IP20	139 x 267 x 205
75	EZAELN3160B191	IP20	149 x 291 x 215
90	EZAELN3180B171	IP20	164 x 316 x 235
110	EZAELN3200B151	IP20	144 x 352 x 265
132	EZAELN3250B121	IP20	207 x 352 x 260

## Filter Short Distance for i5x0 cabinet

Filter type: RFI filter

- C1 to 25 m
- C2 to 50 m
- Reduced leakage current, operation on 30-mA residual current circuit breaker possible

## Filter Long Distance for i5x0 cabinet

Filter type up to 15 kW: RFI filter

Filter type from 22 kW: Mains filter (combination of RFI filter and mains choke)

- C1 to 50 m
- C2 to 100 m
- Operation with 300 mA residual current circuit breaker

Short Distance			
Rated power	RFI filter	Degree of protection	Dimensions (h x w x d)
kW			mm
<b>Operation at 1 x 230 V</b>			
0.25	IOFAE175B100S0000S	IP20	276 x 60 x 50
0.37	IOFAE175B100S0000S	IP20	276 x 60 x 50
0.55	IOFAE175B100S0000S	IP20	276 x 60 x 50
0.75	IOFAE175B100S0000S	IP20	276 x 60 x 50
1.10	IOFAE222B100S0000S	IP20	346 x 60 x 50
1.50	IOFAE222B100S0000S	IP20	346 x 60 x 50
2.20	IOFAE222B100S0000S	IP20	346 x 60 x 50
<b>Operation at 3 x 400 V</b>			
0.37	IOFAE175F100S0000S	IP20	276 x 60 x 50
0.55	IOFAE175F100S0000S	IP20	276 x 60 x 50
0.75	IOFAE175F100S0000S	IP20	276 x 60 x 50
1.10	IOFAE222F100S0000S	IP20	346 x 60 x 50
1.50	IOFAE222F100S0000S	IP20	346 x 60 x 50
2.20	IOFAE222F100S0000S	IP20	346 x 60 x 50
3.0	IOFAE255F100S0001S	IP20	346 x 90 x 60
4.0	IOFAE255F100S0001S	IP20	346 x 90 x 60
5.50	IOFAE255F100S0001S	IP20	346 x 90 x 60
7.50	IOFAE311F100S0000S	IP20	371 x 120 x 60
11	IOFAE311F100S0000S	IP20	371 x 120 x 60
15	-	-	-
18.5	-	-	-
22	-	-	-
30	-	-	-
37	-	-	-
45	-	-	-
55	-	-	-
75	-	-	-
90	-	-	-
110	-	-	-
132	-	-	-

Long Distance			
Rated power	RFI filter	Degree of protection	Dimensions (h x w x d)
kW			mm
<b>Operation at 1 x 230 V</b>			
0.25	IOFAE175B100D0000S	IP20	276 x 60 x 50
0.37	IOFAE175B100D0000S	IP20	276 x 60 x 50
0.55	IOFAE175B100D0000S	IP20	276 x 60 x 50
0.75	IOFAE175B100D0000S	IP20	276 x 60 x 50
1.10	IOFAE222B100D0000S	IP20	346 x 60 x 50
1.50	IOFAE222B100D0000S	IP20	346 x 60 x 50
2.20	IOFAE222B100D0000S	IP20	346 x 60 x 50
<b>Operation at 3 x 400 V</b>			
0.37	IOFAE175F100D0000S	IP20	276 x 60 x 50
0.55	IOFAE175F100D0000S	IP20	276 x 60 x 50
0.75	IOFAE175F100D0000S	IP20	276 x 60 x 50
1.10	IOFAE222F100D0000S	IP20	346 x 60 x 50
1.50	IOFAE222F100D0000S	IP20	346 x 60 x 50
2.20	IOFAE222F100D0000S	IP20	346 x 60 x 50
3.0	IOFAE240F100D0000S	IP20	346 x 60 x 50
4.0 heavy	IOFAE240F100D0000S	IP20	346 x 60 x 50
4.0 light	IOFAE255F100D0001S	IP20	346 x 90 x 60
5.50	IOFAE255F100D0001S	IP20	346 x 90 x 60
7.50	IOFAE311F100D0000S	IP20	371 x 120 x 60
11	IOFAE311F100D0000S	IP20	371 x 120 x 60
15	IOFAE318F100D0000S	IP20	436 x 205 x 90
18.5	IOFAE318F100D0000S	IP20	436 x 205 x 90
22 heavy	IOFAE322F100D0000S	IP20	436 x 205 x 90
22 light	IOFAE330F100D0000S	IP20	590 x 250 x 105
30	IOFAE330F100D0000S	IP20	590 x 250 x 105
37	IOFAE337F100D0000S	IP20	590 x 250 x 105
45	IOFAE345F100D0001S	IP20	590 x 250 x 105
55	IOFAE355F100D0001S	IP20	700 x 250 x 105
75	IOFAE375F100D0001S	IP20	700 x 250 x 105
90	IOFAE411F100D0001S	IP20	855 x 250 x 130
110	IOFAE411F100D0001S	IP20	855 x 250 x 130
132	IOFAE411F100D0001S	IP20	855 x 250 x 130



## Brake resistor for i550 cabinet

- To decelerate greater moments of inertia or with a longer operation in generator mode, an external brake resistor is required.
- The brake resistor absorbs the brake energy produced in generator mode and converts it into heat.

Rated power	Brake resistor	Rated power	Degree of protection	Dimensions (h x w x d)
kW		W		mm
<b>Operation at 1 x 120 V</b>				
0.25	ERBM180R050W	50	IP54	175 x 21 x 40
0.37	ERBM180R050W	50	IP54	175 x 21 x 40
0.75	ERBP047R200W	200	IP21	320 x 41 x 122
1.10	ERBP047R200W	200	IP21	320 x 41 x 122
<b>Operation at 1 x 230 V</b>				
0.25	ERBM180R050W	50	IP54	175 x 21 x 40
0.37	ERBM180R050W	50	IP54	175 x 21 x 40
0.55	ERBM100R100W	100	IP54	240 x 80 x 95
0.75	ERBM100R100W	100	IP54	240 x 80 x 95
1.10	ERBP033R200W	200	IP21	240 x 41 x 122
1.50	ERBP033R200W	200	IP21	240 x 41 x 122
2.20	ERBP033R200W	200	IP21	240 x 41 x 122
<b>Operation at 1 x 230 V or at 3 x 230 V</b>				
0.25	ERBM180R050W	50	IP54	175 x 21 x 40
0.37	ERBM180R050W	50	IP54	175 x 21 x 40
0.55	ERBM100R100W	100	IP54	240 x 80 x 95
0.75	ERBM100R100W	100	IP54	240 x 80 x 95
1.10	ERBP033R200W	200	IP21	240 x 41 x 122
1.50	ERBP033R200W	200	IP21	240 x 41 x 122
2.20	ERBP033R200W	200	IP21	240 x 41 x 122

Rated power	Brake resistor	Rated power	Degree of protection	Dimensions (h x w x d)
kW		W		mm
<b>Operation at 3 x 230 V</b>				
4.0	ERBS015R800W	800	IP66	710 x 110 x 105
5.5	ERBS015R800W	800	IP66	710 x 110 x 105
<b>Operation at 3 x 400 V</b>				
0.37	ERBM390R100W	100	IP54	235 x 21 x 40
0.55	ERBM390R100W	100	IP54	235 x 21 x 40
0.75	ERBM390R100W	100	IP54	235 x 21 x 40
1.10	ERBP180R200W	200	IP21	240 x 41 x 122
1.50	ERBP180R200W	200	IP21	240 x 41 x 122
2.20	ERBP180R200W	200	IP21	240 x 41 x 122
3.0	ERBP082R200W	200	IP21	320 x 41 x 122
4.0	ERBP047R200W	200	IP21	320 x 41 x 122
5.50	ERBP047R200W	200	IP21	320 x 41 x 122
7.50	ERBP027R200W	200	IP21	320 x 41 x 122
11	ERBP027R200W	200	IP21	320 x 41 x 122
15	ERBS018R800W	800	IP66	710 x 110 x 105
18.5	ERBS015R800W	800	IP66	710 x 110 x 105
22	ERBS015R800W	800	IP66	710 x 110 x 105
30	ERBG075D01K9	1900	IP20	486 x 236 x 302
37	ERBG075D01K9	1900	IP20	486 x 236 x 302
45	ERBG075D01K9	1900	IP20	486 x 236 x 302
55	ERBG005R02K6	2600	IP20	486 x 326 x 302
75	ERBG005R02K6	2600	IP20	486 x 326 x 302
90	ERBG028D04K1	4100	IP20	486 x 426 x 302
110	ERBG028D04K1	4100	IP20	486 x 426 x 302
132	ERBG028D04K1	4100	IP20	486 x 426 x 302

## Brake resistor for i550 protec

- To decelerate greater moments of inertia or with a longer operation in generator mode, an external brake resistor is required.
- The brake resistor absorbs the brake energy produced in generator mode and converts it into heat.

Rated power	Brake resistor	Rated power	Degree of protection	Dimensions (h x w x d)
kW		W		mm
<b>Operation at 1 x 230 V</b>				
0.37	ERBS180R350W	350	IP66	382 x 124 x 122
0.75	ERBS100R625W	625	IP66	566 x 124 x 122
1.10	ERBS100R625W	625	IP66	566 x 124 x 122
<b>Operation at 1 x 230 V or at 3 x 230 V</b>				
0.37	ERBS100R625W	625	IP66	566 x 124 x 122
0.55	ERBS100R625W	625	IP66	566 x 124 x 122
0.75	ERBS100R625W	625	IP66	566 x 124 x 122
1.10	ERBS039R01K6	1600	IP66	748 x 200 x 122
1.50	ERBS039R01K6	1600	IP66	748 x 200 x 122
2.20	ERBS039R01K6	1600	IP66	748 x 200 x 122
<b>Operation at 3 x 400 V</b>				
0.37	ERBS470R150W	150	IP66	222 x 124 x 122
0.55	ERBS470R150W	150	IP66	222 x 124 x 122
0.75	ERBS470R150W	150	IP66	222 x 124 x 122
1.10	ERBS180R350W	350	IP66	382 x 124 x 122
1.50	ERBS180R350W	350	IP66	382 x 124 x 122
2.20	ERBS180R350W	350	IP66	382 x 124 x 122

## Motor shield plate for i5x0 cabinet

Rated power	Shield mounting	Packaging unit	Shield mounting	Packaging unit
kW	Multiple		Simple	
<b>Operation at 1 x 120 V</b>				
0.25 ... 1.1 kW	EZAMBHXM018/M	5	EZAMBHXM018/S	1
<b>Operation at 1 x 230 V</b>				
0.25 ... 2.2 kW	EZAMBHXM018/M	5	EZAMBHXM018/S	1
<b>Operation at 3 x 230 V</b>				
4.0 ... 5.5 kW	EZAMBHXM015/M	5	EZAMBHXM015/S	1
<b>Operation at 3 x 400 V</b>				
0.37 ... 4.0 kW	EZAMBHXM018/M	5	EZAMBHXM018/S	1
5.5 kW	EZAMBHXM015/M	5	EZAMBHXM015/S	1
7.5 ... 11 kW	EZAMBHXM016/M	5	EZAMBHXM016/S	1
15 ... 22 kW	EZAMBHXM004/M	10	-	-
30 ... 75 kW	EZAMBHXM005/M	10	-	-

Contents: Motor shield plate, fixing clip, terminal clamp.

Exception: EZAMBHXM004 and EZAMBHXM005 only include terminal clamps as the shield plate comes supplied with the device

## Accessory sets for i5x0 protec

The bottom of the housing of the i510 protec and i550 protec inverters provides openings for connections to the mains, the motor and the control connections. To easily implement these connections in IP66, various connection sets are available.

	Connection set	Contents	Packaging unit
<b>EZAMBHXX022</b>	i550 protec screw connection set 0.37 ... 2.2 kW	3x M20 and 2x M12 cable glands	1
<b>EZAMBHXX023</b>	i550 protec screw connection set 3 ... 11 kW	1x M32, 2x M20 and 2x M12 cable glands	1
<b>EZAMBHXX025</b>	i550 protec screw connection set for Ethernet-based networks	Separable rubber bushing and screw connection for 2x RJ45 connector	1
<b>EZAMBHXX026</b>	Pressure compensation screw connection M12	M12 screw connection with integrated membrane	5
<b>EZAMBHXX027</b>	QUICKON connection set	QUICKON panel feed-through QDP with connection cable	1
<b>EZAMBHXX028</b>	Switch/potentiometer set	3-point switch 1x 10 kΩ potentiometer	1



