

# 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 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
- 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 apparatus construction, space is limited and expensive. 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 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

Good user interface makes the devices easy-to-use from installation to service, reducing engineering 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 frequency inverter such as the i510 cabinet or i550 cabinet.

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 expensive motor cables, for example.

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



### 10-Link

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

With the i550 cabinet, Lenze is the first manufacturer to fulfill 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 in the timber industry or intralogistics, for instance, 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.

### 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 consultative abilities will help you find the best solution for your specific need.

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

- Basic inverter IP20 for simple applications
- 0.25 ... 15 kW



### i550 cabinet

- Standard inverter IP20
- Universally applicable
- 0.25 ... 132 kW



### i550 protec

- Standard inverter-IP66 (NEMA 4X)
- Universally applicable
- 0.37 ... 22 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 cabinet and i550 cabinet

The i510 cabinet and i550 cabinet frequency inverters for simple control cabinet installation are distinguished by a slim design, scalable functionality, and are exceptionally user-friendly. Innovative interaction over WLAN makes new recordbreaking commissioning times and convenient diagnostics a reality. Thus, they are reliable drives for conveyor, traveling, and winding drives, and many other machine tasks. The inverters comply with the future EN 50598-2 standard and are available in the power range 0.25 ... 132 kW.

### Highlights

- i510 cabinet with 0.25 ... 15 kW and i550 cabinet with 0.25 ... 132 kW with IP20 protection
- Space saving design: 60 mm wide (up to 4 kW) and 130 mm deep (up to 11 kW)
- Innovative interaction enables better commissioning times than ever.
- Flexibility with the i550 cabinet by getting it as a complete device or in individual components (Power Unit, Control Unit and Safety Unit) enables various product configurations
- Optionally available with "Safe Torque Off (STO)" with SIL 3 (EN ISO 13849-1) and Performance Level e (EN 62061/EN 61508-2)





### i510 cabinet

### Power range

· 0.25 ... 15 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 V/480 V

• Basic I/O: 5x digital input 1x digital output PNP/NPN logic

· Basic I/O:

2x analog input

1x analog output

• 1x NO/NC relay (24 DC max. 2 A; 240 AC max. 3 A)

· Spring terminals

### 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

### 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 ... 132 kW

### 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 PNP/NPN logic
- · 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 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)

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



The i550 protec uses the same tried-and-tested technology used in control cabinet inverters 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, we recommend a decentralized installation close to the motor. State-of-the-art connection technologies from field distributors to simple line connections on the device itself enable fastest times during commissioning and service. The inverters comply with the future EN 50598-2 standard.

### Highlights

- 0.37 ... 22 KW (expansion up to 75 kW planned) with IP31 and IP66 protection
- IP66 protection (Indoor & Outdoor NEMA 4X)
- Integrated diagnostic interface (micro USB) for service purposes
- Versions with or without repair switch, with keypad, USB or WLAN diagnostic module for easy plug & play operation
- Optionally available with "Safe Torque Off (STO)" with SIL 3 (EN ISO 13849-1) and Performance Level e (EN 62061/EN 61508-2)



### i550 protec

### Power range

• 0.37 ... 22 KW (expansion up to 75 kW planned)

### Mounting

- Wall mounting
- Installation

### Degree of protection

- IP31 (NEMA 1)
- IP66 (NEMA 4X)

### **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
- 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-Relais (DC 24 V max. 2 A; AC 240 V 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)

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

### Ambient temperature during operation

3K3 (-30 ... +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. In the three basic variants for motor mounting, wall mounting, or wall mounting with repair switch, it 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, for example 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 repair switch

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

### Highlights

- 8400 motec with 0.37 ... 7.5 kW and IP65 protection
- Compact design
- High degree of functionality such as integrated brake rectifier
- M12 signal connector for networks, I/Os, external 24 V supply and STO
- High variety of mains plugs M15 or QUICKON QPD
- Wall mounting without derating



### 8400 motec

### Power range

· 0.37 ... 7.5 kW

### Mounting

- · Wall mounting
- Motor mounting

### Degree of protection

IP65

IP54 (with switching unit)

### Approvals

CE, UL, CSA, EAC, RoHS

### Connections

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• 3 AC 400 V/480 V

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· Standard I/O:

5x digital input

1x digital output 1x inverter enable

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-

-

-

-

 frequency input: 0 ... 10 kHz 1x NO/NC relay External 24 V supply together with Ethernet-based networks and PROFIBUS

• Evaluation of motor PTC

### Overload behavior

· 200 % for 3 s; 150 % for 60 s

### Motor controls

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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 frequency inverter

Connection to 230 V mains

	CE	2014/30/EU	2014/35/EU		
Conformities	EAC	TP TC 020/2011	TP TR 004/2011		
	RoHS	2011/65/EU			
Approvals	UL	UL 61800-5-1	CSA 22.2 No. 274		
	EN	EN 60529	IP20		
Degree of protection	NEMA	NEMA 250	On an true		
	UL	UL 50	Open type		
Power systems	TT, TN, IT		Voltage to earth: max. 300 V		
Cyclic mains switching		3 x within one minute possible			
Operation on residual current device (RCD)		up to 11 kW (except for 5.5 kW) 30 mA			
Operation on residual current device (KCD)			5.5 kW 300 mA		
Max. cable length for EMC	Category C2	1	max. 15 m to 0.37 kW, above max. 20 m		
IVIAX. Cable length for LIVIC	Category C3	ı	max. 15 m to 0.37 kW, above max. 35 m		
			2, 4, 8, 16 kHz		
Switching frequencies		The rated outp	ut currents apply at 45 °C and switching frequencies of		
Switching frequencies			2 and 4 kHz, and at 40 °C and		
			switching frequencies of 8 and 16 kHz		
Ambient temperature operation	EN 60721-3-3		3K3 (-10 +55°C)		
Output frequency			0 599 Hz		
Overload capacity			200 % for 3 s; 150 % for 60 s		

	P <sub>rated</sub>	U <sub>mains</sub>	I <sub>rated</sub>	m	H x W x D	Material nu	mber					
	[kW]	[V]	[A]	[kg]	[mm]	Basic variant						
	1-phase mains connection 230/240 V with integrated RFI filter											
i510-C0.25/230-1	0.25		1.7	0.75	155 x 60 x 130	16128696	0	Ä				
i510-C0.37/230-1	0.37		2.4	0.75	155 x 60 x 130	16128670	0	Ä				
i510-C0.55/230-1	0.55	1/N/PE AC	3.2	0.95	180 x 60 x 130	16128697	0	H				
i510-C0.75/230-1	0.75	170 V 264 V	4.2	0.95	180 x 60 x 130	16128756	0	Ä				
i510-C1.1/230-1	1.1	45 65 Hz	6	1.35	250 x 60 x 130	16128698	0	H				
i510-C1.5/230-1	1.5		7	1.35	250 x 60 x 130	16128699	0	H				
i510-C2.2/230-1	2.2		9.6	1.35	250 x 60 x 130	16128700	1	Ħ				
		1/3-phase mains co	nnection 230/240	V without integ	rated RFI filter							
i510-C0.25/230-2	0.25		1.7	0.75	155 x 60 x 130	16130190	•					
i510-C0.37/230-2	0.37	1/N/PE AC	2.4	0.75	155 x 60 x 130	16129279	0	E				
i510-C0.55/230-2	0.55	or	3.2	0.95	180 x 60 x 130	16132576	0	<b>\</b>				
i510-C0.75/230-2	0.75	3/PE AC	4.2	0.95	180 x 60 x 130	16130279	•					
i510-C1.1/230-2	1.1	170 V 264 V	6	1.35	250 x 60 x 130	16142329	•					
i510-C1.5/230-2	1.5	45 65 Hz	7	1.35	250 x 60 x 130	16128935	0	<b>\</b>				
i510-C2.2/230-2	2.2		9.6	1.35	250 x 60 x 130	16130739	•					
		3-phase mains con	nection 230/240	V without integra	ated RFI filter							
i510-C4.0/230-3	4	3/PE AC 170 V 264 V	16.5	2.1	250 x 90 x 130	16163112	•	Ħ				
i510-C5.5/230-3	5.5	45 65 Hz	23	2.1	250 x 90 x 130	16163114	•	Ħ				

The basic i510 cabinet products listed here are equipped with the basic I/O described above.

# i510 cabinet frequency inverter

Connection to 400 V mains

	CF	2014/30/EU	2014/35/EU			
			• •			
Conformities	EAC	TP TC 020/2011	TP TR 004/2011			
	RoHS	2011/65/EU				
Approvals	UL	UL 61800-5-1	CSA 22.2 No. 274			
	EN	EN 60529	IP20			
Degree of protection	NEMA	NEMA 250	Onen tune			
	UL	UL 50	Open type			
Power systems	TT, TN, IT		Voltage to earth: max. 300 V			
Cuelic mains switching		up	up to 45 kW 3 x within one minute possible,			
Cyclic mains switching			above 1x within one minute possible			
Operation on residual current device (RCD)		up to 11 kW (except for 5.5 kW) 30 mA				
Operation on residual current device (KCD)		5.5 kW 300 mA				
Max. cable length for EMC	Category C2	ı	max. 15 m to 0.37 kW, above max. 20 m			
iviax. Cable leligtii for Elvic	Category C3	max. 15 m	to 0.37 kW, above max. 35 m 45 kW, above 100 m			
			2, 4, 8, 16 kHz			
Switching frequencies		The rated outp	ut currents apply at 45 °C and switching frequencies of			
owitching frequencies			2 and 4 kHz, and at 40 °C and			
			switching frequencies of 8 and 16 kHz			
Ambient temperature operation	EN 60721-3-3		3K3 (-10 +55°C)			
Output frequency			0 599 Hz			
Overload capacity		200 % for 3 s;	Heavy Duty: 150 % for 60 s; Light Duty: 120 % for 60 s			

	$P_{\text{rated}}$	U <sub>mains</sub>	I <sub>rated</sub>	m	H x W x D	Material nu	mber				
	[kW]	[V]	[A]	[kg]	[mm]	Basic variant					
3-phase mains connection 400 V – Heavy Duty with integrated RFI filter											
i510-C0.37/400-3	0.37		1.3	0.75	155 x 60 x 130	16129217	•	Ä			
i510-C0.55/400-3	0.55		1.8	0.95	180 x 60 x 130	16129084	0	Ħ			
i510-C0.75/400-3	0.75		2.4	0.95	180 x 60 x 130	16129214	0	Ħ			
i510-C1.1/400-3	1.1		3.2	1.35	250 x 60 x 130	16130383	0	Ä			
i510-C1.5/400-3	1.5	3/PE AC	3.9	1.35	250 x 60 x 130	16128936	0	Ħ			
i510-C2.2/400-3	2.2	340 V 528 V	5.6	1.35	250 x 60 x 130	16129713	0	Ħ			
i510-C3.0/400-3	3	45 65 Hz	7.3	1.35	250 x 60 x 130	16237999	<b>(1)</b>	Ħ			
i510-C4.0/400-3	4		9.5	1.35	250 x 60 x 130	16270390	<b>1</b>	Ħ			
i510-C5.5/400-3	5.5		13	2.3	250 x 90 x 130	16161644	•	Ħ			
i510-C7.5/400-3	7.5		16.5	3.7	276 x 120 x 130	16161981	•	Ħ			
i510-C11/400-3	11		23.5	3.7	276 x 120 x 130	16161266	•	Ħ			
		3-phase mains conne	ection 400 V - Ligh	nt Duty with integ	grated RFI filter						
i510-C3.0/400-3	4		8.8	1.35	250 x 60 x 130	16237999	•	Ä			
i510-C4.0/400-3	5.5	3/PE AC	11.9	1.35	250 x 60 x 130	16270390	•	Ħ			
i510-C5.5/400-3	7.5	340 V 528 V	15.6	2.3	250 x 90 x 130	16161644	•	Ħ			
i510-C7.5/400-3	11	45 65 Hz	23	3.7	276 x 120 x 130	16161981	6	Ħ			
i510-C11/400-3	15		28.2	3.7	276 x 120 x 130	16161266	Ð	Ħ			

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

The basic i510 cabinet products listed here are equipped with the basic I/O described above.

# Variance of the i510 cabinet frequency inverters

Basic variant

The basic version of the i510 cabinet can easily be adapted to the application by means of the EPF. A number of variants are available for this purpose, which result from the subsequent extensions.

	I/O-modules								
Basic I/O									
Basic variant									
	Diagnostics								
No module	Keypad	WLAN Modul							
Basic variant	Product extension	Product extension							
	Fieldbuses								
No fieldbus	CANopen	Modbus RTU							

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# i550 cabinet frequency inverter

Connection to 120 V mains and 230 V mains

	CE	2014/30/EU	2014/35/EU		
Conformities	EAC	TP TC 020/2011	TP TR 004/2011		
	RoHS	2011/65/EU			
Approvals	UL	UL 61800-5-1	CSA 22.2 No. 274		
	EN	EN 60529	IP20		
Degree of protection	NEMA	NEMA 250	0		
	UL	UL 50	Open type		
Power systems	TT, TN, IT		Voltage to earth: max. 300 V		
Cyclic mains switching			3 x within one minute possible		
Operation on residual current device (RCD)		up to 11 kW (except for 5.5 kW) 30 mA			
Operation on residual current device (NCD)			5.5 kW and 15 132 kW with 300 mA		
Max. cable length for EMC	Category C2		max. 15 m to 0.37 kW, above max. 20 m		
iviax. Cable length for Elvic	Category C3		max. 15 m to 0.37 kW, above max. 35 m		
			2, 4, 8, 16 kHz		
Switching frequencies		The rated outp	ut currents apply at 45 °C and switching frequencies of		
Switching frequencies			2 and 4 kHz, and at 40 °C and		
			switching frequencies of 8 and 16 kHz		
Ambient temperature operation	EN 60721-3-3		3K3 (-10 +55°C)		
Output frequency			0 599 Hz		
Overload capacity			200 % for 3 s; 150 % for 60 s		

	P <sub>rated</sub>	U <sub>mains</sub>	I <sub>rated</sub>	m	HxWxD	Material nu	ımber	
	[kW]	[V]	[A]	[kg]	[mm]	Basic variant		
		1-phase mains co	nnection 120 V	without integrat	ted RFI filter			
i550-C0.25/120-1	0.25	1/11/05 10	1.7	1	180 x 60 x 130	16066023	0	Ħ
i550-C0.37/120-1	0.37	1/N/PE AC 90 V 132 V	2.4	1	180 x 60 x 130	16064433	0	Ħ
i550-C0.75/120-1	0.75	45 65 Hz	4.2	1.35	250 x 60 x 130	16066011	•	Ħ
i550-C1.1/120-1	1.1	45 05 112	6	1.35	250 x 60 x 130	16064779	0	Ħ
		1-phase mains cor	nection 230/2	40 V with integra	ted RFI filter			
i550-C0.25/230-1	0.25		1.7	0.8	155 x 60 x 130	16072019	•	Ħ
i550-C0.37/230-1	0.37		2.4	0.8	155 x 60 x 130	16064775	•	Ħ
i550-C0.55/230-1	0.55	1/N/PE AC	3.2	1	180 x 60 x 130	16065635	0	Ħ
i550-C0.75/230-1	0.75	170 V 264 V	4.2	1	180 x 60 x 130	16064551	•	Ħ
i550-C1.1/230-1	1.1	45 65 Hz	6	1.35	250 x 60 x 130	16064914	0	Ħ
i550-C1.5/230-1	1.5		7	1.35	250 x 60 x 130	16065219	0	Ħ
i550-C2.2/230-1	2.2		9.6	1.35	250 x 60 x 130	16064726	0	7
		1-phase mains conn	ection 230/240	V without integ	rated RFI filter			
i550-C0.25/230-2	0.25		1.7	0.8	155 x 60 x 130	16064376	1	Ħ
i550-C0.37/230-2	0.37		2.4	0.8	155 x 60 x 130	16069965	0	Ħ
i550-C0.55/230-2	0.55	1/N/PE A	3.2	1	180 x 60 x 130	16066742	0	Ħ
i550-C0.75/230-2	0.75	170 V 264 V	4.2	1	180 x 60 x 130	16068342	0	Ħ
i550-C1.1/230-2	1.1	45 65 Hz	6	1.35	250 x 60 x 130	16067912	0	7
i550-C1.5/230-2	1.5		7	1.35	250 x 60 x 130	16069966	•	H
i550-C2.2/230-2	2.2		9.6	1.35	250 x 60 x 130	16068892	0	Ħ
		3-phase mains conn	ection 230/240	V without integ	rated RFI filter			
i550-C0.25/230-2	0.25		1.7	0.8	155 x 60 x 130	16064376	0	Ä
i550-C0.37/230-2	0.37		2.4	0.8	155 x 60 x 130	16069965	0	Ħ
i550-C0.55/230-2	0.55		3.2	1	180 x 60 x 130	16066742	1	Ħ
i550-C0.75/230-2	0.75	3/PE AC	4.2	1	180 x 60 x 130	16068342	6	Ħ
i550-C1.1/230-2	1.1	170 V 264 V	6	1.35	250 x 60 x 130	16067912	0	Ħ
i550-C1.5/230-2	1.5	45 65 Hz	7	1.35	250 x 60 x 130	16069966	0	Ħ
i550-C2.2/230-2	2.2		9.6	1.35	250 x 60 x 130	16068892	0	Ħ
i550-C4.0/230-3	4		16.5	2.1	250 x 90 x 130	16069567	0	Ħ
i550-C5.5/230-3	5.5		23	2.1	250 x 90 x 130	16069967	•	Ħ

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

# i550 cabinet frequency inverter

Connection to 400 V mains

	CE	2014/30/EU	2014/35/EU				
Conformities	EAC	TP TC 020/2011	TP TR 004/2011				
	RoHS	2011/65/EU					
Approvals	UL	UL 61800-5-1	CSA 22.2 No. 274				
	EN	EN 60529	IP20				
Degree of protection	NEMA	NEMA 250	On an hour				
	UL	UL 50	Open type				
Power systems	TT, TN, IT		Voltage to earth: max. 300 V				
Cuelic mains switching		up	up to 45 kW 3 x within one minute possible,				
Cyclic mains switching			above 1x within one minute possible				
Operation on residual current device (RCD)		up to 11 kW (except for 5.5 kW) 30 mA					
Operation on residual current device (NCD)		5.5 kW and 15 132 kW with 300 mA					
Max. cable length for EMC	Category C2	m	ax. 15 m up to 0.37 kW, above max. 20 m				
iviax. Cable leligtii for Elvic	Category C3	max. 15 m uj	o to 0.37 kW, max. 35 m 0.55 45 kW, above 100 m				
			2, 4, 8, 16 kHz				
Switching frequencies		The rated outpu	ut currents apply at 45 °C and switching frequencies of				
Switching frequencies			2 and 4 kHz, and at 40 °C and				
			switching frequencies of 8 and 16 kHz				
Ambient temperature operation	EN 60721-3-3		3K3 (-10 +55°C)				
Output frequency			0 599 Hz				
Overload capacity		200 % for 3 s; l	Heavy Duty: 150 % for 60 s; Light Duty: 120 % for 60 s				

	P <sub>rated</sub>	U <sub>mains</sub>	I <sub>rated</sub>	m	H x W x D	Material nu	mber	
	[kW]	[V]	[A]	[kg]	[mm]	Basic variant		
		3-phase mains connec	tion 400 V – Hea	vy Duty with in	tegrated RFI filter			
i550-C0.37/400-3	0.37		1.3	0.8	155 x 60 x 130	16064469	0	Ä
i550-C0.55/400-3	0.55		1.8	1	180 x 60 x 130	16064720	0	Ħ
i550-C0.75/400-3	0.75		2.4	1	180 x 60 x 130	16064604	0	Ħ
i550-C1.1/400-3	1.1		3.2	1.35	250 x 60 x 130	16064661	0	Ä
i550-C1.5/400-3	1.5		3.9	1.35	250 x 60 x 130	16064940	0	Ħ
i550-C2.2/400-3	2.2		5.6	1.35	250 x 60 x 130	16064391	0	Ä
i550-C3.0/400-3	3		7.3	1.35	250 x 60 x 130	16238456	0	Ä
i550-C4.0/400-3	4		9.5	1.35	250 x 60 x 130	16238735	0	Ħ
i550-C5.5/400-3	5.5		13	2.3	250 x 90 x 130	16064392	0	Ä
i550-C7.5/400-3	7.5	3/PE AC	16.5	3.7	276 x 120 x 130	16064360	0	Ħ
i550-C11/400-3	11	340 V 528 V	23.5	3.7	276 x 120 x 130	16064320	0	Ħ
i550-C15/400-3	15	45 65 Hz	32	10.3	347 x 204.5 x 222	16064800	0	E
i550-C18/400-3	18.5		40	10.3	347 x 204.5 x 222	16064974	0	Ħ
i550-C22/400-3	22		47	10.3	347 x 204.5 x 222	16064740	0	Ħ
i550-C30/400-3	30		61	17.2	450 x 250 x 230	16064922	0	Ħ
i550-C.37/400-3	37		76	17.2	450 x 250 x 230	16064757	0	Ħ
i550-C45/400-3	45		89	17.2	450 x 250 x 230	16065493	0	Ħ
i550-C55/400-3	55		110	24	536 x 250 x 265	16064467	0	Ħ
i550-C75/400-3	75		150	24	536 x 250 x 265	16064680	0	Ħ
i550-C90/400-3	90		180	35.6	685 x 258 x 304	16109969	0	Ħ
i550-C110/400-3	110		212	35.6	685 x 258 x 304	16110065	0	Ħ
		3-phase mains connec	ction 400 V – Lig	ht Duty with int	egrated RFI filter			
i550-C3.0/400-3	4		8.8	1.35	250 x 60 x 130	16238456	0	Ä
i550-C4.0/400-3	5.5		11.9	1.35	250 x 60 x 130	16238735	0	Ä
i550-C5.5/400-3	7.5		15.6	2.3	250 x 90 x 130	16064392	0	Ä
i550-C7.5/400-3	11		23	3.7	276 x 120 x 130	16064360	0	Ä
i550-C11/400-3	15		28.2	3.7	276 x 120 x 130	16064320	0	Ħ
i550-C15/400-3	18.5		38.4	10.3	347 x 204.5 x 222	16064800	0	Ħ
i550-C18/400-3	22	3/PE AC	48	10.3	347 x 204.5 x 222	16064974	0	Ħ
i550-C22/400-3	30	340 V 528 V	56.4	10.3	347 x 204.5 x 222	16064740	0	Ħ
i550-C30/400-3	37	45 65 Hz	73.2	17.2	450 x 250 x 230	16064922	0	Ħ
i550-C37/400-3	45		91.2	17.2	450 x 250 x 230	16064757	0	Ħ
i550-C45/400-3	55		107	17.2	450 x 250 x 230	16065493	0	Ħ
i550-C55/400-3	75		132	24	536 x 250 x 265	16064467	0	Ħ
i550-C75/400-3	90		180	24	536 x 250 x 265	16064680	0	Ħ
i550-C90/400-3	110		216	35.6	685 x 258 x 304	16109969	0	Ħ
i550-C110/400-3	132	7	254	35.6	685 x 258 x 304	16110065	0	7

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

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

# Variance of the i550 cabinet frequency inverters

The basic version of the i550 cabinet can easily be adapted to the application by means of the EPF. A number of variants are available for this purpose, which result from the subsequent extensions.

I/O-modules							
Standard-I/O	Standard-I/O Application-I/O						
Basic variant	•						

Diagnostics							
Kein Modul	Keypad	WLAN Modul					
Basic variant	Product extension	Product extension					

	Fieldbuses									
No fieldbus	CANopen	EtherCAT	EtherNet/IP	IO-Link	Modbus RTU	Modbus TCP	PROFIBUS	Profinet	Powerlink	
Basic variant	•	•	•	•	•	•	•	•	•	

Safety engineering				
No safety engineering		STO		
Basic variant		•		

### i550 protec frequency inverter

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

Approvals	UL	UL 61800-5-1	CSA 22.2 No. 274	
	FN	FN 60529	IP31	
	EIN	EN 00329	IP66	
Degree of protection	NFMA	NEMA 250	Type 1	
	INEIVIA	INEIVIA 250	Type 4X Indoor & Outdoor	
	UL	UL 50		
Environmental conditions	FN 60721-3-3	3M3	For mechanical, active substances	
	EN 60/21-3-3	3C2	For chemical, active substances	
Power systems	TT, TN		Voltage to earth: max. 300 V	
Cyclic mains switching			3 x within one minute possible	
Operation on residual current device (RCD)		uŗ	to 2.2 kW 30 mA, above this 300 mA	
Max. cable length for EMC	Category C2	max. 20 m		
Max. Cable length for EMC	Category C3		max. 35 m	
			2, 4, 8, 12, 16 kHz	
Switching frequencies		The rated output	currents apply at 45 °C and switching frequencies of	
Switching frequencies			2 and 4 kHz, and at 40 °C and	
		swi	itching frequencies of 8, 12 and 16 kHz	
Ambient temperature operation	EN 60721-3-3		3K3 (-30 +55°C)	
Output frequency		0 599 Hz		
Overload capacity		200 % for 3 s; He	eavy Duty: 150 % for 60 s; Light Duty: 120 % for 60 s	

	P <sub>rated</sub>	U <sub>mains</sub>	I <sub>rated</sub>	Degree of	m	H x W x D	Material nu	ımber	
	[kW]	[V]	[A]	protection	[kg]	[mm]	Basic variant		
		1-phase mains o	onnection 12	0 V – Heavy Duty	without inte	grated RFI filter			
i550-P0.37/120-1	0.37	1/N/PE AC	2.4	IP66	1.8	190 x 140 x 117	16289615	0	Ä
i550-P0.75/120-1	0.75	90 V 132 V	4.2	IP66	2.7	205 x 140 x 140	16289616	•	Ħ
i550-P1.1/120-1	1.1	45 65 Hz	6	IP66	2.7	205 x 140 x 140	16289617	1	Ä
		1-phase mains co	onnection 230	0/240 V – Heavy D	outy with into	egrated RFI filter			
i550-P0.37/230-1	0.37		2.4	IP66	1.8	190 x 140 x 117	16289267	0	Ä
i550-P0.55/230-1	0.55	1/11/05 10	3.2	IP66	1.8	190 x 140 x 117	16289308	0	Ä
i550-P0.75/230-1	0.75	1/N/PE AC 170 V 264 V	4.2	IP66	1.8	190 x 140 x 117	16289319	0	Ä
i550-P1.1/230-1	1.1	45 65 Hz	6	IP66	2.7	205 x 140 x 140	16289328	0	Ä
i550-P1.5/230-1	1.5	45 05 112	7	IP66	2.7	205 x 140 x 140	16289356	1	Ä
i550-P2.2/230-1	2.2		9.6	IP66	2.7	205 x 140 x 140	16289364	0	Ä
		1-phase mains cor	nection 230/	240 V – Heavy Du	ty without ir	ntegrated RFI filter			
i550-P0.37/230-2	0.37		2.4	IP66	1.7	190 x 140 x 117	16289896	1	Ä
i550-P0.55/230-2	0.55		3.2	IP66	1.7	190 x 140 x 117	16289897	1	Ä
i550-P0.75/230-2	0.75	1/N/PE AC 170 V 264 V	4.2	IP66	1.7	190 x 140 x 117	16289898	0	Ä
i550-P1.1/230-2	1.1	45 65 Hz	6	IP66	2.6	205 x 140 x 140	16289899	1	Ä
i550-P1.5/230-2	1.5	45 05 112	7	IP66	2.6	205 x 140 x 140	16289900	0	Ä
i550-P2.2/230-2	2.2		9.6	IP66	2.6	205 x 140 x 140	16289912	0	Ħ
		3-phase mains cor	nection 230/	240 V – Heavy Du	ty without ir	ntegrated RFI filter			
i550-P0.37/230-2	0.37		2.4	IP66	1.7	190 x 140 x 117	16289896	0	Ä
i550-P0.55/230-2	0.55		3.2	IP66	1.7	190 x 140 x 117	16289897	0	Ħ
i550-P0.75/230-2	0.75		4.2	IP66	1.7	190 x 140 x 117	16289898	0	Ä
i550-P1.1/230-2	1.1		6	IP66	2.6	205 x 140 x 140	16289899	0	Ħ
i550-P1.5/230-2	1.5		7	IP66	2.6	205 x 140 x 140	16289900	0	Ħ
i550-P2.2/230-2	2.2	3/PE AC	9.6	IP66	2.6	205 x 140 x 140	16289912	0	Ħ
i550-P3.0/230-3	3	170 V 264 V	12	IP66	4.8	250 x 180 x 168	16438365	0	
i550-P4.0/230-3	4	45 65 Hz	16.5	IP66	4.8	250 x 180 x 168	16438369	0	
i550-P5.5/230-3	5.5		23	IP66	4.8	250 x 180 x 168	16438390	0	
i550-P7.5/230-3	7.5		29	IP66	5	290 x 180 x 173	16438405	0	
i550-P11/230-3	11		42	IP66	5	290 x 180 x 173	16438121	0	
i550-P15/230-3	15		54	IP66	9.3	405 x 230 x 187			
i550-P18/230-3	18.5		68	IP66	9.3	405 x 230 x 187			

The basic i550 protec products listed here are equipped with the standard I/O described above. The alternatively available basic product with application I/O can be found on the Internet.

 $\mathsf{Lenze} \cdot \mathsf{frequency} \, \mathsf{inverter} \cdot \mathsf{11/2020}$ 

# i550 protec frequency inverter

Connection to 400 V and 600 V mains with IP66 protection

Approvals	UL	UL 61800-5-1	CSA 22.2 No. 274	
	FN	EN 60529	IP31	
	EIN	EN 00529	IP66	
Degree of protection	NFMA	NFMA 250	Type 1	
	INEIVIA	INEIVIA 250	Type 4X Indoor & Outdoor	
	UL	UL 50		
Environmental conditions	EN CO721 2 2	3M3	For mechanical, active substances	
	EN 60721-3-3	3C2	For chemical, active substances	
Power systems	TT, TN		Voltage to earth: max. 300 V	
Cyclic mains switching		3 x within one minute possible		
Operation on residual current device (RCD)		uŗ	to 2.2 kW 30 mA, above this 300 mA	
May cable length for FMC	Category C2	max. 20 m		
Max. cable length for EMC	Category C3		max. 35 m	
			2, 4, 8, 12, 16 kHz	
Switching frequencies		The rated output	currents apply at 45 °C and switching frequencies of	
Switching requencies			2 and 4 kHz, and at 40 °C and	
		SW	itching frequencies of 8, 12 and 16 kHz	
Ambient temperature operation	EN 60721-3-3		3K3 (-30 +55°C)	
Output frequency		0 599 Hz		
Overload capacity		200 % for 3 s; He	eavy Duty: 150 % for 60 s; Light Duty: 120 % for 60 s	

	P <sub>rated</sub>	U <sub>mains</sub>	I <sub>rated</sub>	Degree of	m	HxWxD	Material nu	mber	
	[kW]	[V]	[A]	protection	[kg]	[mm]	Basic variant		
		3-phase mains	connection 4	00 V – Heavy Dut	y with integr	ated RFI filter			
i550-P0.37/400-3	0.37		1.3	IP66	1.8	190 x 140 x 117	16289382	0	Ä
i550-P0.55/400-3	0.55		1.8	IP66	1.8	190 x 140 x 117	16289390	•	Ä
i550-P0.75/400-3	0.75		2.4	IP66	1.8	190 x 140 x 117	16289401	•	Ä
i550-P1.1/400-3	1.1		3.2	IP66	2.7	205 x 140 x 140	16289416	0	Ä
i550-P1.5/400-3	1.5		3.9	IP66	2.7	205 x 140 x 140	16289340	•	Ä
i550-P2.2/400-3	2.2	2/25 4.0	5.6	IP66	2.7	205 x 140 x 140	16289341	0	Ä
i550-P3.0/400-3	3	3/PE AC 340 V 528 V	7.3	IP66	4.9	250 x 180 x 168	16438049	0	
i550-P4.0/400-3	4	45 65 Hz	9.5	IP66	4.9	250 x 180 x 168	16438336	•	
i550-P5.5/400-3	5.5	45 05 112	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	0	
i550-P11/400-3	11		23.5	IP66	5.1	290 x 180 x 173	16438271	•	
i550-P15/400-3	15		32	IP66	10.1	405 x 230 x 187			
i550-P18/400-3	18.5		40	IP66	10.1	405 x 230 x 187			
i550-P22/400-3	22		47	IP66	10.1	405 x 230 x 187			
		3-phase mains o	onnection 60	0 V – Heavy Duty	without inte	grated RFI filter			
i550-P0.75/600-3	0.75	3/PE AC	1.7	IP66	1.8	190 x 140 x 117			
i550-P1.5/600-3	1.5	425 V 660 V	2.7	IP66	2.7	205 x 140 x 140			
i550-P2.2/600-3	2.2	45 Hz 65 Hz	3.9	IP66	2.7	205 x 140 x 140			

The basic i550 protec products listed here are equipped with the standard I/O described above. The alternatively available basic product with application I/O can be found on the Internet.

### Variance of the i550 protec frequency inverters

The basic version of the i550 protec can easily be adapted to the application by means of the EASY Product Finder (EPF). A number of variants are available for this purpose, which result from the subsequent extensions.

Diagnostics, operation an parameterization				
No module Keypad		WLAN module		
Basic variant	•	•		

Fieldbuses								
No fieldbus	CANopen	EtherCAT	EtherNet/IP	IO-Link	Modbus RTU	Modbus TCP		
Basic variant	•	•	•	•	•	•		

Safety engineering				
No safety engineering		STO		
Basic variant		•		

Extension box					
No extension box	Extension box only	Extension box with repair switch			
Basic variant	•	•			

### **Extension box**

The i550 protec frequency inverters can be ordered with an IP66 housing (extension box) enlarged at the bottom. The width and depth remain identical, only the switching elements protrude approx. 30 mm. The height increases as follows: at 0.37 ... 2.2 kW by 140 mm, at 3.0 ... 5.5 kW by 146 mm, at 7.5 ... 11 kW by 181 mm and at 15 ... 22 kW by 207 mm.

This extension box can be purchased empty or with an integrated repair switch and offers a variety of solutions for the customer:

- Additional space or holes for cable entries
- Integration of control elements (see options)
- Emergency stop switch (must be realized by customers for normative reasons)
- Integration of a terminal for looping through the mains voltage (see options)
- Integration of a brake rectifier for controlling a 180 V / 205 V DC holding brake (see options)
- Integration of a mains choke
- And many more



 $\texttt{Lenze} \cdot \mathsf{frequency} \; \mathsf{inverter} \cdot 11/2020$ 

# 8400 motec frequency inverter

Connection to 400 V mains

Conformities	CE	2014/30/EU	2014/35/EU		
	EAC	TP TC 020/2011	TP TR 004/2011		
	RoHS	2011/65/EU			
Approvals	UL	UL 61800-5-1	CSA 22.2 No. 274		
Degree of protection	EN		IP65: For motor mounting or wall mounting without repair switch		
		EN 60529	IP64: For wall mounting with repair switch and protective function		
		EN 00325	IP54: For wall mounting with repair switch or with repair switch and control elements		
	NEMA	NEMA 250	Type 1 (only protection against accidental contact)		
		NEIWA 250	Type 4x (only indoor), wall mounting 0.37 kW 3 kW type 12		
Power systems	TN	Voltage to earth: max. 300 V			
Cyclic mains switching		3 x within one	minute possible		
Operation on residual current device (RCD)		system cable type B, in case of wall mounting with	counting or wall mounting with Lenze < 3 m 300 mA,  Lenze system cable > 3 m or in case of 0 7.5 kW, fch= 4 kHz		
Max. cable length for EMC	Category C2	_	rith Lenze system cable, fch ≤ 4 kHz rith Lenze system cable, fch ≤ 8 kHz		
Switching frequencies		4, 8, 16 kHz.  The rated output currents listed below apply at 45 °C and a switching frequencies of and 16 kHz			
Ambient temperature operation	EN 60721-3-3	45 °C (derating of 2.5 %/°C above 45 °C)			
Output frequency		05	599 Hz		
Overload capacity		200 % for 3 s;	150 % for 60 s		

### Motor mounting

	P <sub>rated</sub>	U <sub>mains</sub>	I <sub>rated</sub>	Degree of protection	Material number		
	[kW]	[V]	[A]		Basic variant		
	3-	phase mains connection	on 400 V with integrate	ed RFI filter			
E84DGDVB37142PS	0.37		1.3	IP65	16201250	•	Ä
E84DGDVB55142PS	0.55		1.8	IP65	16211540	•	Ħ
E84DGDVB75142PS	0.75		2.4	IP65	16208180	•	Ħ
E84DGDVB11242PS	1.1		3.2	IP65	16246606	•	Ħ
E84DGDVB15242PS	1.5	3/PE AC	3.9	IP65	16203503	•	Ħ
E84DGDVB22242PS	2.2	340 V 528 V 45 65 Hz	5.6	IP65	16210191	0	Ħ
E84DGDVB30242PS	3	45 05 П2	7.3	IP65	16207032	•	Ħ
E84DGDVB40242PS	4		9.5	IP65	16210473	•	Ħ
E84DGDVB55242PS	5.5	1	13	IP65	16207034	0	Ħ
E84DGDVB75242PS	7.5		16.5	IP65	16206267	•	Ħ

### Wall mounting

	P <sub>rated</sub>	U <sub>mains</sub>	I <sub>rated</sub>	Degree of protection	Material number		
	[kW]	[V]	[A]		Basic varian	it	
	3-	phase mains connection	on 400 V with integrate	ed RFI filter			
E84DGDVB37142PS	0.37		1.3	IP65	16206516	1	Ä
E84DGDVB55142PS	0.55		1.8	IP65	16216537	0	Ħ
E84DGDVB75142PS	0.75		2.4	IP65	16187340	0	Ħ
E84DGDVB11242PS	1.1	. ,	3.2	IP65	16226086	•	Ħ
E84DGDVB15242PS	1.5	3/PE AC	3.9	IP65	16205484	0	Ä
E84DGDVB22242PS	2.2	340 V 528 V 45 65 Hz	5.6	IP65	16207178	0	Ä
E84DGDVB30242PS	3	45 65 HZ	7.3	IP65	16228213	0	Ä
E84DGDVB40242PS	4	-	9.5	IP65	16210586	0	Ä
E84DGDVB55242PS	5.5		13	IP65	16210587	0	
E84DGDVB75242PS	7.5		16.5	IP65	16207177	0	Ħ

The basic 8400 motec products listed here are equipped with the standard I/O described above. The alternatively available basic product with application I/O can be found on the Internet.

### Variance of the 8400 motec frequency inverters

			Λ.	/lains connection	'n			
Internal	terminals	ш	N N Q4/2 - input		on AN Q4/2 - inp	ut/output		M15 - input
	variant	ПА	• u-y z - iliput	П	AN Q4/2 - INF	acyoucput		• Input
Dasic	variant							<del>-</del>
				Number of I/Os	5			
	Standard I/O			Basic I/O				led-I/O
	Basic variant			•				•
			Conne	ection of I/O m	ndules			
Tern	ninals	Standard I/O Enhanced-I/O		E	nhanced2-I/O			
Basic	variant		•		•			•
							·	
	Not intograted		Int	Brake resistor	<b></b>		Integrated	220 ohms
ľ	Not integrated  Basic variant		In	tegrated, 90 oh	ms		integrated	, 220 ohms
	Dasie variant							-
			External l	brake resistor c	onnection			
Int	ternal terminals						HAN Q5	connector
	Basic variant							•
				Fieldbuses				
No fieldbus	ASi	CANo	pen l	EtherCAT	EtherNe	:/IP	PROFIBUS	PROFINET
asic variant	•	•		•	•		•	•
				afety engineeri	na			
No s	safety engineering			arety engineerii	ig .		S.	го
	Basic variant							•
	minals	HΔN Ω4/2 - ii		Mains connectio		M15		OLUCKON OPD
all mounting  Internal tern  Basic vari		HAN Q4/2 - iı •		Aains connectic Q4/2 - input/o		M15		QUICKON QPD
Internal terr		HAN Q4/2 - iı •	nput HAN	Q4/2 - input/o •	utput			QUICKON QPD
<b>Internal terr</b> Basic vari	ant	HAN Q4/2 - iı •	nput HAN	Q4/2 - input/o	utput			•
<b>Internal terr</b> Basic vari	ternal terminals	HAN Q4/2 - iı •	nput HAN	Q4/2 - input/o •	utput			• N Q8
<b>Internal terr</b> Basic vari	ant	HAN Q4/2 - ii •	nput HAN	Q4/2 - input/o •	utput			•
Internal terr Basic vari	ternal terminals Basic variant	HAN Q4/2 - iı •	nput HAN	Q4/2 - input/o  •  Notor connection  Number of I/O	on			v Q8
Internal terr Basic vari	ternal terminals Basic variant Standard I/O	HAN Q4/2 - iı •	nput HAN	Q4/2 - input/o  •  //otor connection  Number of I/Os  Basic I/O	on		Extend	• N Q8 • ded-1/O
Internal terr Basic vari	ternal terminals Basic variant	HAN Q4/2 - ii	nput HAN	Q4/2 - input/o  •  Notor connection  Number of I/O	on		Extend	v Q8
Internal terr Basic vari	ternal terminals Basic variant Standard I/O	HAN Q4/2 - ii	nput HAN	Q4/2 - input/o  •  //otor connection  Number of I/Os  Basic I/O	on S		Extend	• N Q8 • ded-1/O
Internal terr Basic vari	ternal terminals Basic variant Standard I/O	•	nput HAN	Q4/2 - input/o  •  //otor connection  Number of I/Os  Basic I/O  •	on S	•	Extend	• N Q8 • ded-1/O
Internal terr Basic vari Int	ternal terminals Basic variant  Standard I/O Basic variant	•	nput HAN	Q4/2 - input/o  •  //otor connection  Number of I/Os  Basic I/O  •	on s	•	Extend	• N Q8 • ded-I/O
Basic vari	ternal terminals Basic variant  Standard I/O Basic variant	•	Conne Standard I/O	Q4/2 - input/o  * Motor connection  Number of I/O: Basic I/O  * ection of I/O me	on  S  odules  Enhance	•	Extend	N Q8 ded-I/O inhanced2-I/O
Internal terr Basic vari	ternal terminals Basic variant  Standard I/O Basic variant	•	Conne Standard I/O	Q4/2 - input/o  •  //otor connection  Number of I/Os  Basic I/O  •	on  s  odules  Enhance	•	Extend	N Q8 ded-I/O inhanced2-I/O
Internal terr Basic vari	ternal terminals Basic variant  Standard I/O Basic variant  ninals variant	•	Conne Standard I/O	Q4/2 - input/o  * Motor connection  Number of I/O: Basic I/O  * ection of I/O me	on  s  odules  Enhance	•	Extend	N Q8  ded-I/O  inhanced2-I/O
Internal terr Basic vari	ternal terminals Basic variant  Standard I/O Basic variant  ninals variant	•	Conne Standard I/O	Q4/2 - input/o  * Motor connection  Number of I/O: Basic I/O  * ection of I/O me  Brake resistor tegrated, 90 oh	on  s  odules  Enhance  •	•	Extend	N Q8  ded-I/O  inhanced2-I/O
Internal terr Basic vari	ternal terminals Basic variant  Standard I/O Basic variant  ninals variant  Not integrated Basic variant	•	Conne Standard I/O	Q4/2 - input/o  Number of I/O  Basic I/O  ection of I/O me	on  s  odules  Enhance  •	•	Extend	enhanced2-I/O enhanced2-I/O enhanced2-I/O enhanced2-I/O enhanced2-I/O
Internal terr Basic vari	ternal terminals Basic variant  Standard I/O Basic variant  ninals variant	•	Conne Standard I/O	Q4/2 - input/o  * Motor connection  Number of I/O: Basic I/O  * ection of I/O me  Brake resistor tegrated, 90 oh	on  s  odules  Enhance  •	•	Extend  E  Integrated  HAN Q5	N Q8  ded-I/O  inhanced2-I/O
Internal terr Basic vari	ternal terminals Basic variant  Standard I/O Basic variant  ninals variant  Not integrated Basic variant	•	Conne Standard I/O	Q4/2 - input/o  * Motor connection  Number of I/O: Basic I/O  * ection of I/O me  Brake resistor tegrated, 90 oh  * brake resistor contacts	on  s  odules  Enhance  •	•	Extend  E  Integrated  HAN Q5	onnector
Internal terr Basic vari	ternal terminals Basic variant  Standard I/O Basic variant  ninals variant  Not integrated Basic variant  ternal terminals Basic variant		Connes Standard I/O  •  External I	Q4/2 - input/o  * Motor connection  Number of I/O: Basic I/O  * ection of I/O me  Brake resistor tegrated, 90 oh  * brake resistor contacts  Fieldbuses	on  s  odules  Enhance  oms	I-1/O	Extend  Extend  Integrated	onnector
Internal terr Basic vari Int  Tern Basic Int Int	ternal terminals Basic variant  Standard I/O Basic variant  ninals variant  Not integrated Basic variant  ternal terminals Basic variant	CANO	Connes Standard I/O  External I	Q4/2 - input/o  * Motor connection  Number of I/O: Basic I/O  * ection of I/O me  Brake resistor tegrated, 90 oh  brake resistor contact tegrated tegrated.	on  s  odules  Enhance  on  EtherNe	I-1/O	Extend  Extend  Integrated  HAN Q5 of PROFIBUS	onnector  PROFINET
Internal terr Basic vari  Int  Tern Basic  Int  Int  O fieldbus	ternal terminals Basic variant  Standard I/O Basic variant  ninals variant  Not integrated Basic variant  ternal terminals Basic variant		Connes Standard I/O  External I	Q4/2 - input/o  * Motor connection  Number of I/O: Basic I/O  * ection of I/O me  Brake resistor tegrated, 90 oh  * brake resistor contacts  Fieldbuses	on  s  odules  Enhance  oms	I-1/O	Extend  Extend  Integrated	onnector
Internal terr Basic vari  Int  Tern Basic  Int  Int  O fieldbus	ternal terminals Basic variant  Standard I/O Basic variant  ninals variant  Not integrated Basic variant  ternal terminals Basic variant	CANO	Conne Standard I/O  •  External I	Q4/2 - input/o  * Motor connection  Number of I/O: Basic I/O  * ection of I/O me  Brake resistor tegrated, 90 oh  brake resistor contact tegrated tegrated.	on  Solution  EtherNe  •	I-1/O	Extend  Extend  Integrated  HAN Q5 of PROFIBUS	onnector  PROFINET
Internal terr Basic vari  Int  Tern Basic  Int  Int  Int  Int  Int  Int  Int  In	ternal terminals Basic variant  Standard I/O Basic variant  ninals variant  Not integrated Basic variant  ternal terminals Basic variant	CANO	Conne Standard I/O  •  External I	Q4/2 - input/o  * Motor connection  Number of I/O: Basic I/O  * ection of I/O me  Brake resistor tegrated, 90 oh  * brake resistor contains  Fieldbuses  EtherCAT  *	on  Solution  EtherNe  •	I-1/O	Extend  Integrated  HAN Q5 of PROFIBUS  •	onnector  PROFINET

Repair switch with protective Repair switch and control Repair switch No repair switch elements functions Basic variant

Repair switch

In addition, the following can be configured: Various assignments of the M12 I/O connectors, the position of the connectors on the inverter housing and the position of the mounted inverter on the geared motor.

# **Product extensions**

### Diagnostics and operation of the i510 cabinet and i550 cabinet

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

Frequency inverter	External keypad	Keypad	WLAN module	USB module
	731-0		**************************************	Contract to the contract to th
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 i550 cabinet

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

Frequency inverter	Safety function STO (Safe Torque Off)
	eee .
i550-Cxxx/120-1 i550-Cxxx/230-1 i550-Cxxx/230-2 i550-Cxxx/230-3 i550-Cxxx/400-3	I5MASAV000000S

# Accessories

### Mains choke for i510 cabinet and i550 cabinet

i550 cabinet: generally prescribed from 22 kW (for Light Duty from 15 kW) i550 protec: already integrated in the device if required (>= 30 kW)

- Mains chokes reduce the effects of the frequency 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 frequency inverter by 4 % (typical voltage drop across the mains choke in the rated point).

Rated power	Mains choke	Degree of pro- tection	Dimensions (H x W x D)				
kW			mm				
	Operation at 1 x 120 V						
0.25	ELN1-0500H009	IP00	75 x 66 x 82				
0.37	ELN1-0500H009	IP00	75 x 66 x 82				
0.75	ELN1-0250H018	IP00	96 x 96 x 90				
1.1	ELN1-0250H018	IP00	96 x 96 x 90				
	Operation at 1	230 V					
0.25	ELN1-0900H005	IP00	75 x 66 x 82				
0.37	ELN1-0900H005	IP00	75 x 66 x 82				
0.55	ELN1-0500H009	IP00	75 x 66 x 82				
0.75	ELN1-0500H009	IP00	75 x 66 x 82				
1.1	ELN1-0250H018	IP00	96 x 96 x 90				
1.5	ELN1-0250H018	IP00	96 x 96 x 90				
2.2	ELN1-0250H018	IP00	96 x 96 x 90				
	Operation at 3 a	230 V					
0.25	EZAELN3002B153	IP00	56 x 77 x 100				
0.37	EZAELN3004B742	IP00	60 x 95 x 115				
0.55	EZAELN3004B742	IP00	60 x 95 x 115				
0.75	EZAELN3006B492	IP00	69 x 95 x 120				
1.1	EZAELN3006B492	IP00	69 x 95 x 120				
1.5	EZAELN3008B372	IP00	85 x 120 x 140				
2.2	EZAELN3010B292	IP00	85 x 120 x 140				
4	EZAELN3016B182	IP00	95 x 120 x 140				
5.5	EZAELN3025B122	IP00	110 x 155 x 170				

Rated power	Mains choke	Degree of pro- tection	Dimensions (H x W x D)		
kW			mm		
Operation at 3 x 400 V					
0.37	EZAELN3002B203	IP00	56 x 77 x 100		
0.55	EZAELN3002B153	IP00	56 x 77 x 100		
0.75	EZAELN3004B742	IP00	60 x 95 x 115		
1.1	EZAELN3004B742	IP00	60 x 95 x 115		
1.5	EZAELN3004B742	IP00	60 x 95 x 115		
2.2	EZAELN3006B492	IP00	69 x 95 x 120		
3.0	EZAELN3008B372	IP00	85 x 120 x 140		
4.0	EZAELN3010B292	IP00	85 x 120 x 140		
5.5	EZAELN3016B182	IP00	95 x 120 x 140		
7.5	EZAELN3016B182	IP00	95 x 120 x 140		
11	EZAELN3025B122	IP00	110 x 155 x 170		
15	EZAELN3030B981	IP00	110 x 155 x 170		
18.5	EZAELN3040B741	IP00	112 x 185 x 200		
22	EZAELN3045B651	IP00	112 x 185 x 200		
30	EZAELN3063B471	IP00	122 x 185 x 210		
37	EZAELN3080B371	IP00	125 x 210 x 240		
45	EZAELN3080B371	IP00	125 x 210 x 240		
55	EZAELN3100B301	IP00	139 x 267 x 205		
75	EZAELN3160B191	IP00	149 x 291 x 215		
90	EZAELN3180B171	IP00	164 x 316 x 235		
132	EZAELN3250B121	IP00	207 x 352 x 260		

### Short Distance filter for i510 cabinet and i550 cabinet

Filter type: RFI filter

• C1 to 25 m

• C2 to 50 m

• Reduced leakage current, operation on 30-mA residual current device (RCD)

### Long Distance filter for i510 cabinet and i550 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 mC2 to 100 m

• Operation on 300-mA residual current device (RCD)

Short Distance						
Rated power	RFI filter	Degree of pro- tection	Dimensions (H x W x D)			
kW			mm			
	Operation at 1 x	230 V				
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			
1.1	I0FAE222B100S0000S	IP20	346 x 60 x 50			
1.5	I0FAE222B100S0000S	IP20	346 x 60 x 50			
2.2	I0FAE222B100S0000S	IP20	346 x 60 x 50			
	Operation at 3 x	400 V				
0.37	I0FAE175F100S0000S	IP20	276 x 60 x 50			
0.55	I0FAE175F100S0000S	IP20	276 x 60 x 50			
0.75	IOFAE175F100S0000S	IP20	276 x 60 x 50			
1.1	I0FAE222F100S0000S	IP20	346 x 60 x 50			
1.5	I0FAE222F100S0000S	IP20	346 x 60 x 50			
2.2	I0FAE222F100S0000S	IP20	346 x 60 x 50			
3	I0FAE255F100S0001S	IP20	346 x 90 x 60			
4	I0FAE255F100S0001S	IP20	346 x 90 x 60			
5.5	I0FAE255F100S0001S	IP20	346 x 90 x 60			
7.5	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 Distan	ce				
Rated power	RFI filter	Degree of pro- tection	Dimensions (H x W x D)			
kW			mm			
Operation at 1 x 230 V						
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			
1.1	IOFAE222B100D0000S	IP20	346 x 60 x 50			
1.5	I0FAE222B100D0000S	IP20	346 x 60 x 50			
2.2	I0FAE222B100D0000S	IP20	346 x 60 x 50			
	Operation at 3 x	400 V				
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			
1.1	I0FAE222F100D0000S	IP20	346 x 60 x 50			
1.5	IOFAE222F100D0000S	IP20	346 x 60 x 50			
2.2	IOFAE222F100D0000S	IP20	346 x 60 x 50			
3	IOFAE240F100D0000S	IP20	346 x 60 x 50			
4 (Heavy Duty)	IOFAE240F100D0000S	IP20	346 x 60 x 50			
4 (Light Duty)	I0FAE255F100D0001S	IP20	346 x 90 x 60			
5.5	I0FAE255F100D0001S	IP20	346 x 90 x 60			
7.5	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 Duty)	IOFAE322F100D0000S	IP20	436 x 205 x 90			
22 (Light Duty)	I0FAE330F100D0000S	IP20	590 x 250 x 105			
30	I0FAE330F100D0000S	IP20	590 x 250 x 105			
37	I0FAE337F100D0000S	IP20	590 x 250 x 105			
45	I0FAE345F100D0001S	IP20	590 x 250 x 105			
55	I0FAE355F100D0001S	IP20	700 x 250 x 105			
75	I0FAE375F100D0001S	IP20	700 x 250 x 105			
90	I0FAE411F100D0001S	IP20	855 x 250 x 130			
110	I0FAE411F100D0001S	IP20	855 x 250 x 130			
132	I0FAE411F100D0001S	IP20	855 x 250 x 130			

### Low Leakage filter for i510 cabinet and i550 cabinet

Filter type: Low Leakage - suitable for 10-mA residual current device (RCD)

- C1 to 5m
- Reduced leakage current, operation on 10-mA residual current device (RCD)

	Low Leakage							
Rated power	Rated power RFI filter Degree of protection							
kW			mm					
0.25	I0FAE137B100L0000S	IP20	226 x 60 x 50					
0.37	IUFAE137B100L00003	IPZU	220 X 00 X 30					
0.55	I0FAE175B100L0000S	IP20	276 x 60 x 50					
1.75	IUFAE1/3B1UULUUUU3	1720	276 X 60 X 50					
1.1								
1.5	I0FAE222B100L0000S	IP20	346 x 60 x 50					
2.2								

### 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
		Operation at 1 x 120 V		
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
1.1	ERBP047R200W	200	IP21	320 x 41 x 122
		Operation at 1 x 230 V		
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
1.1	ERBP033R200W	200	IP21	240 x 41 x 122
1.5	ERBP033R200W	200	IP21	240 x 41 x 122
2.2	ERBP033R200W	200	IP21	240 x 41 x 122
	Ope	ration at 1 x 230 V or at 3 >	c 230 V	
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
1.1	ERBP033R200W	200	IP21	240 x 41 x 122
1.5	ERBP033R200W	200	IP21	240 x 41 x 122
2.2	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
		Operation at 3 x 230 V		
4.0	ERBS015R800W	800	IP66	710 x 110 x 105
5.5	ERBS015R800W	800	IP66	710 x 110 x 105
		Operation at 3 x 400 V		
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
1.1	ERBP180R200W	200	IP21	240 x 41 x 122
1.5	ERBP180R200W	200	IP21	240 x 41 x 122
2.2	ERBP180R200W	200	IP21	240 x 41 x 122
3	ERBP082R200W	200	IP21	320 x 41 x 122
4	ERBP047R200W	200	IP21	320 x 41 x 122
5.5	ERBP047R200W	200	IP21	320 x 41 x 122
7.5	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
		Operation at 1 x 120 V		
0.37	ERBS180R350W	350	IP66	382 x 124 x 122
0.75	ERBS100R625W	625	IP66	566 x 124 x 122
1.1	ERBS100R625W	625	IP66	566 x 124 x 122
	Oper	ation at 1 x 230 V or at 3 x	230 V	
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
1.1	ERBS039R01K6	1600	IP66	748 x 200 x 122
1.5	ERBS039R01K6	1600	IP66	748 x 200 x 122
2.2	ERBS039R01K6	1600	IP66	748 x 200 x 122
3.0	ERBS015R800W	800	IP66	710 x 114 x 105
4.0	ERBS015R800W	800	IP66	710 x 114 x 105
5.5	ERBS015R800W	800	IP66	710 x 114 x 105
7.5	ERBS015R800W	800	IP66	710 x 114 x 105
11	ERBS015R800W	800	IP66	710 x 114 x 105
15	ERBS015R800W	800	IP66	710 x 114 x 105
18.5	ERBS012R02K0WQN000	2000	IP66	710 x 114 x 105
		Operation at 3 x 400 V		
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
1.1	ERBS180R350W	350	IP66	382 x 124 x 122
1.5	ERBS180R350W	350	IP66	382 x 124 x 122
2.2	ERBS180R350W	350	IP66	382 x 124 x 122
3.0	ERBS082R780WNQN000	780	IP66	666 x 124 x 122
4.0	ERBS047R400W	400	IP66	400 x 114 x 105
5.5	ERBS047R400W	400	IP66	400 x 114 x 105
7.5	ERBS027R600W	600	IP66	550 x 114 x 105
11	ERBS027R600W	600	IP66	550 x 114 x 105
15	ERBS015R800W	800	IP66	710 x 114 x 105
18.5	ERBS012R02K0WQN000	2000	IP66	710 x 114 x 105
22	ERBS012R02K0WQN000	2000	IP66	710 x 114 x 105

### Motor shield plate for i510 cabinet and i550 cabinet

Rated power	Shield mounting	Packaging unit	Shield mounting	Packaging unit
kW	Multiple		Simple	
		Operation at 1 x 120 V		
0.25 1.1 kW	EZAMBHXM018/M	5	EZAMBHXM018/S	1
		Operation at 1 x 230 V		
0.25 2.2 kW	EZAMBHXM018/M	5	EZAMBHXM018/S	1
		Operation at 3 x 230 V		
4 5.5 kW	EZAMBHXM015/M	5	EZAMBHXM015/S	1
		Operation at 3 x 400 V		
0.37 4 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

### Mounting of i550 protec

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

	Set	Contents	Packaging unit
EZAMBHXX022	i550 protec cable gland 0.37 2.2 kW	3x M20 und 2x M12 cable glands	1
EZAMBHXX023	i550 protec cable gland 3 11 kW	2x M32, 1x M20 and 2x M12 cable glands	1
EZAMBHXX024	i550 protec cable gland 15 22 kW	1 x 40, 1 x M32, and 2 x M12 cable glands	1
EZAMBHXX025	i550 protec cable gland for Ethernet-based networks	Separable rubber bushing and M20 screw connection for 2x RJ45 connector	1
EZAMBHXX026/M	Pressure compensation screw connection M12	5 x M12 screw connection with integrated membrane	1
EZAMBHXX027	QUICKON connector	QUICKON panel feed-through QDP with connection cable	1
EZAMBHXX028	Switch set	$3$ -point switch $1x\ 10\ k\Omega$ potentiometer for use in extension box	1
EZAMBHXX029	Terminal block set	0.5 10 mm² (AWG 24-6) for looping-through connection for use in extension box	1
EZAMBHXX033	Angled network connector RJ45	Angled Connector or Ethernet-based networks	1
EZAMBHXX034	DIN Rail Set	DIN rail with terminal block for use in extension box	1

### Brake switch

Serves for switching an electromechanical brake. The brake switch consists of a rectifier and an electronic circuit breaker. With the i550 protec frequency inverter with extension box, the brake switch can be installed in the extended connection space. It must be controlled by a digital output of the inverter.

	Set	Connection	Packaging unit
E82ZWBRE	Brake rectifier for motor holding brake control	Input voltage: AC 320 550 V Output voltage: DC 180 V (at AC 400 V) or DC 225 V (at AC 500 V)	1
E82ZWBRB		Input voltage: AC 180 317 V Output voltage: DC 205 V (at AC 230 V)	1

