



Frequency inverter

0.33 ... 175 hp



Lenze inverter – universally applicable.

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

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

Typical application fields

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

Features

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

The benefits for you

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



Features at a glance.



Compact design

In mechanical engineering and machine construction, space is limited and expensive. Thus, Lenz 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 2.36 in (up to 5.0 hp) and a depth of just 5.12 in (up to 15 hp). Moreover, the devices can be mounted directly next to each other without derating.



Flexibility

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

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



User-friendliness

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 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.



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 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 NEMA 4X degree of protection (Indoor & Outdoor IP 66), 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 machine 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 NEMA Open Type (IP20) for simple applications
- 0.33... 20 hp



i510 protec

- Basic inverter NEMA 1 (IP20) for simple applications
- 0.5 ... 10 hp



i550 cabinet

- Standard inverter NEMA Open Type (IP20)
- Universally applicable
- 0.33... 175 hp



i550 protec

- Standard inverter NEMA 1 (IP31) or NEMA 12/4X (IP55/66)
- Universally applicable
- 0.5 ... 100 hp



8400 motec

- Standard inverter for motor or wall mounting NEMA 4X (IP65)
- Various connector options for power and signals for minimum installation expenses
- 0.5 ... 10 hp

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 record-breaking 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 0.33 ... 175 hp.

Highlights

- i510 cabinet with 0.33 ... 20 hp and i550 cabinet with 0.33 ... 175 hp with NEMA Open type (IP20) protection
- Space saving design: 2.36 in wide (up to 5 hp) and 5.12 in deep (up to 15 hp)
- Innovative interaction options enable better set-up times than ever before
- 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

- 0.33 ... 20 hp

Mounting

-
- Installation

Degree of protection

- NEMA Open Type (IP20)
-

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 (DC 24 V max. 2 A; AC 240 V max. 3 A)
-
-
- Spring terminals
-

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)
-

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 (14 ... 131 °F) EN 60721-3-3 (derating of 2.5 %/K above 113 °F)

i550 cabinet

Power range

- 0.33 ... 175 hp

Mounting

-
- Installation

Degree of protection

- NEMA Open Type (IP20)
-

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 (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, 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
- 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 (14 ... 131 °F) EN 60721-3-3 (derating of 2.5 %/K above 113 °F)

i510 protec and i550 protec

The i510 protec and i550 protec use the same tried-and-tested technology used in control cabinet inverters and only differ 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

i510 protec

- 0.5 ... 10 hp with NEMA 1 (IP20) protection
- Very compact design
- Cost and performance optimized version for UL installations

i550 protec

- 0.5 ... 30 hp with NEMA 1 protection and 0.5 ... 100 hp NEMA 12/4X protection
- NEMA 4X Indoor & Outdoor protection (IP66)
- For service purposes, a USB micro diagnostic interface is on board
- 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)



i510 protec

Power range

- 0.5 ... 10 hp

Mounting

- Wall mounting
- Installation

Degree of protection

- NEMA 1 (IP20)
-

Approvals

- CE, UL, CSA, EAC, RoHS

Connections

- 1 AC 120 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
-
-
-
-
- Standard I/O:
2x analog input
1x analog output
-
-
-
- 1x NO/NC relay (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

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)
-

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 (-22 ... 131 °F) EN 60721-3-3 (derating of 2.5 %/K above 113 °F)

i550 protec

Power range

- 0.5 ... 100 hp

Mounting

- Wall mounting
- Installation

Degree of protection

- NEMA 1 (IP31)
- IP55 (NEMA 12) 30 ... 75 kW
- IP66 (NEMA 4X) 0.37 ... 22 kW

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 relay (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
- 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 (-22 ... 131 °F) EN 60721-3-3 (derating of 2.5 %/K above 113 °F)

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, 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 NEMA 4X.

Wall mounting with repair switch

Wall-mounted device with 3 maintenance switches. Options for maximum flexibility in NEMA 12 (IP54).

Highlights

- 8400 motec with 0.5 ... 10 hp and NEMA 4X (IP65) protection
- Compact design
- High degree of functionality such as integrated brake rectifier
- M12 signal connector for networks, IOs, external 24 V supply and STO
- High variety of mains plugs M15 or QUICKON QPD
- Wall mounting without derating



8400 motec

Power range

- 0.5 ... 10 hp

Mounting

- Wall mounting
- Motor mounting

Degree of protection

- NEMA 4X (IP65)
- NEMA 12 (IP54, with switching unit)

Approvals

CE, UL, CSA, EAC, RoHS

Connections

-
-
-
-
- 3 AC 400 V/480 V
-
- Standard I/O:
 - 5x digital input
 - 1x digital output
 - 1x inverter enable
-
-
-
-
-
-
-
-
-
-
- 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

-
- 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 (-22 ... 131 °F) EN 60721-3-3 (derating of 2.5 %/K above 113 °F)



Technical data

i510 cabinet frequency inverter

Connection to 230 V mains

Conformities	CE	2014/30/EU	2014/35/EU
	EAC	TP TC 020/2011	TR TC 004/2011
	RoHS	2011/65/EU	
Approvals	UL	UL 61800-5-1	CSA 22.2 No. 274
Degree of protection	EN	EN 60529	IP20
	NEMA	NEMA 250	Open type
	UL	UL 50	
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 15 hp (except for 7.5 hp) 30 mA 7.5 hp 300 mA		
Max. cable length for EMC	Category C2	max. 49 ft m to 0.5 hp, above max. 65 ft	
	Category C3	max. 49 ft to 0.5 hp, above max. 115 ft	
Switching frequencies	2, 4, 8, 16 kHz The rated output currents apply at 113 °F and switching frequencies of 2 and 4 kHz, and at 104 °F and switching frequencies of 8 and 16 kHz		
Ambient temperature operation	EN 60721-3-3	3K3 (14 ... 131 °F)	
Output frequency	0 ... 599 Hz		
Overload capacity	200 % for 3 s; 150 % for 60 s		

	P_{rated} [hp]	U_{mains} [V]	I_{rated} [A]	m [lb]	H x W x D [in]	Material number Basic variant		
1-phase mains connection 230/240 V with integrated RFI filter								
i510-C0.25/230-1	0.33	1/N/PE AC 170 V ... 264 V 45 ... 65 Hz	1.7	1.7	6.10 x 2.36 x 5.12	16147439		
i510-C0.37/230-1	0.5		2.4	1.7	6.10 x 2.36 x 5.12	16128694		
i510-C0.55/230-1	0.75		3.2	2.1	7.08 x 2.36 x 5.12	16180190		
i510-C0.75/230-1	1		4.2	2.1	7.08 x 2.36 x 5.12	16162694		
i510-C1.1/230-1	1.5		6	3	9.84 x 2.36 x 5.12	16188185		
i510-C1.5/230-1	2		7	3	9.84 x 2.36 x 5.12	16179833		
i510-C2.2/230-1	3		9.6	3	9.84 x 2.36 x 5.12	16180191		
1/3-phase mains connection 230/240 V without integrated RFI filter								
i510-C0.25/230-2	0.33	1/N/PE AC or 3/PE AC 170 V ... 264 V 45 ... 65 Hz	1.7	1.7	6.10 x 2.36 x 5.12	16147441		
i510-C0.37/230-2	0.5		2.4	1.7	6.10 x 2.36 x 5.12	16151013		
i510-C0.55/230-2	0.75		3.2	2.1	7.08 x 2.36 x 5.12	16188178		
i510-C0.75/230-2	1		4.2	2.1	7.08 x 2.36 x 5.12	16130080		
i510-C1.1/230-2	1.5		6	3	9.84 x 2.36 x 5.12	16160109		
i510-C1.5/230-2	2		7	3	9.84 x 2.36 x 5.12	16133680		
i510-C2.2/230-2	3		9.6	3	9.84 x 2.36 x 5.12	16144480		
3-phase mains connection 230/240 V without integrated RFI filter								
i510-C4.0/230-3	5	3/PE AC 170 V ... 264 V 45 ... 65 Hz	16.5	4.6	9.84 x 3.54 x 5.12	16167340		
i510-C5.5/230-3	7.5		23	4.6	9.84 x 3.54 x 5.12	16172491		

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

i510 cabinet frequency inverter

Connection to 480 V mains

Conformities	CE	2014/30/EU	2014/35/EU
	EAC	TP TC 020/2011	TR TC 004/2011
	RoHS	2011/65/EU	
Approvals	UL	UL 61800-5-1	CSA 22.2 No. 274
Degree of protection	EN	EN 60529	IP20
	NEMA	NEMA 250	Open type
	UL	UL 50	
Power systems	TT, TN, IT	Voltage to earth: max. 300 V	
Cyclic mains switching		up to 45 kW 3 x within one minute possible, above 1x within one minute possible	
Operation on residual current device (RCD)		up to 15 hp (except for 7.5 hp) 30 mA 7.5 hp 300 mA	
Max. cable length for EMC	Category C2	max. 49 ft m to 0.5 hp, above max. 65 ft	
	Category C3	max. 49 ft up to 0.5 hp, max. 115 ft 0.75 ... 60 hp, above 328 ft	
Switching frequencies		2, 4, 8, 16 kHz The rated output currents apply at 113 °F and switching frequencies of 2 and 4 kHz, and at 104 °F and switching frequencies of 8 and 16 kHz	
Ambient temperature operation	EN 60721-3-3	3K3 (14 ... 131 °F)	
Output frequency		0 ... 599 Hz	
Overload capacity		200 % for 3 s; Heavy Duty: 150 % for 60 s; Light Duty: 120 % for 60 s	

	P_{rated} [hp]	U_{mains} [V]	I_{rated} [A]	m [lb]	H x W x D [in]	Material number Basic variant		
3-phase mains connection 480 V – Heavy Duty with integrated RFI filter								
i510-C0.37/400-3	0.5	3/PE AC 340 V ... 528 V 45 ... 65 Hz	1.1	1.7	6.10 x 2.36 x 5.12	16130711	i	🛒
i510-C0.55/400-3	0.75		1.6	2.1	7.08 x 2.36 x 5.12	16134700	i	🛒
i510-C0.75/400-3	1		2.1	2.1	7.08 x 2.36 x 5.12	16130734	i	🛒
i510-C1.1/400-3	1.5		3	3	9.84 x 2.36 x 5.12	16150517	i	🛒
i510-C1.5/400-3	2		3.5	3	9.84 x 2.36 x 5.12	16150516	i	🛒
i510-C2.2/400-3	3		4.8	3	9.84 x 2.36 x 5.12	16151482	i	🛒
i510-C3.0/400-3	4		6.3	3	9.84 x 2.36 x 5.12	16270552	i	🛒
i510-C4.0/400-3	5		8.2	3	9.84 x 2.36 x 5.12	16270554	i	🛒
i510-C5.5/400-3	7.5		11	5.1	9.84 x 3.54 x 5.12	16172533	i	🛒
i510-C7.5/400-3	10		14	8.2	10.86 x 4.72 x 5.12	16172532	i	🛒
i510-C11/400-3	15		21	8.2	10.86 x 4.72 x 5.12	16165855	i	🛒
3-phase mains connection 480 V – Light Duty with integrated RFI filter								
i510-C3.0/400-3	5	3/PE AC 340 V ... 528 V 45 ... 65 Hz	7.6	3	9.84 x 2.36 x 5.12	16270552	i	🛒
i510-C4.0/400-3	7.5		9.8	3	9.84 x 2.36 x 5.12	16270554	i	🛒
i510-C5.5/400-3	10		13.2	5.1	9.84 x 3.54 x 5.12	16172533	i	🛒
i510-C7.5/400-3	15		18.3	8.2	10.86 x 4.72 x 5.12	16172532	i	🛒
i510-C11/400-3	20		25.2	8.2	10.86 x 4.72 x 5.12	16165855	i	🛒

Mains choke is generally prescribed for Light Duty with 20 hp.

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

Variance of the i510 cabinet frequency inverters

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 module
Basic variant	Product extension	Product extension

Fieldbuses		
No fieldbus	CANopen	Modbus RTU
Basic variant	•	•

i550 cabinet frequency inverter

Connection to 120 V mains and 230 V mains

Conformities	CE	2014/30/EU	2014/35/EU
	EAC	TP TC 020/2011	TR TC 004/2011
	RoHS	2011/65/EU	
Approvals	UL	UL 61800-5-1	CSA 22.2 No. 274
Degree of protection	EN	EN 60529	IP20
	NEMA	NEMA 250	Open type
	UL	UL 50	
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 15 hp (except for 7.5 hp) 30 mA 7.5 hp 300 mA		
Max. cable length for EMC	Category C2	max. 49 ft m to 0.5 hp, above max. 65 ft	
	Category C3	max. 49 ft to 0.5 hp, above max. 115 ft	
Switching frequencies	2, 4, 8, 16 kHz The rated output currents apply at 113 °F and switching frequencies of 2 and 4 kHz, and at 104 °F and switching frequencies of 8 and 16 kHz		
Ambient temperature operation	EN 60721-3-3	3K3 (14 ... 131 °F)	
Output frequency	0 ... 599 Hz		
Overload capacity	200 % for 3 s; 150 % for 60 s		

	P_{rated} [hp]	U_{mains} [V]	I_{rated} [A]	m [lb]	H x W x D [in]	Material number Basic variant		
1-phase mains connection 120 V without integrated RFI filter								
i550-C0.25/120-1	0.33	1/N/PE AC 90 V ... 132 V 45 ... 65 Hz	1.7	2.2	7.08 x 2.36 x 5.12	16066023	i	🛒
i550-C0.37/120-1	0.5		2.4	2.2	7.08 x 2.36 x 5.12	16064433	i	🛒
i550-C0.75/120-1	1		4.2	3	9.84 x 2.36 x 5.12	16066011	i	🛒
i550-C1.1/120-1	1.5		6	3	9.84 x 2.36 x 5.12	16064779	i	🛒
1-phase mains connection 230/240 V with integrated RFI filter								
i550-C0.25/230-1	0.33	1/N/PE AC 170 V ... 264 V 45 ... 65 Hz	1.7	1.8	6.10 x 2.36 x 5.12	16139664	i	🛒
i550-C0.37/230-1	0.5		2.4	1.8	6.10 x 2.36 x 5.12	16067221	i	🛒
i550-C0.55/230-1	0.75		3.2	2.2	7.08 x 2.36 x 5.12	16069088	i	🛒
i550-C0.75/230-1	1		4.2	2.2	7.08 x 2.36 x 5.12	16069325	i	🛒
i550-C1.1/230-1	1.5		6	3	9.84 x 2.36 x 5.12	16215720	i	🛒
i550-C1.5/230-1	2		7	3	9.84 x 2.36 x 5.12	16093320	i	🛒
i550-C2.2/230-1	3		9.6	3	9.84 x 2.36 x 5.12	16080945	i	🛒
1-phase mains connection 230/240 V without integrated RFI filter								
i550-C0.25/230-2	0.33	1/N/PE A 170 V ... 264 V 45 ... 65 Hz	1.7	1.8	6.10 x 2.36 x 5.12	16116977	i	🛒
i550-C0.37/230-2	0.5		2.4	1.8	6.10 x 2.36 x 5.12	16090651	i	🛒
i550-C0.55/230-2	0.75		3.2	2.2	7.08 x 2.36 x 5.12	16100730	i	🛒
i550-C0.75/230-2	1		4.2	2.2	7.08 x 2.36 x 5.12	16094146	i	🛒
i550-C1.1/230-2	1.5		6	3	9.84 x 2.36 x 5.12	16175770	i	🛒
i550-C1.5/230-2	2		7	3	9.84 x 2.36 x 5.12	16080497	i	🛒
i550-C2.2/230-2	3		9.6	3	9.84 x 2.36 x 5.12	16080946	i	🛒
3-phase mains connection 230/240 V without integrated RFI filter								
i550-C0.25/230-2	0.33	3/PE AC 170 V ... 264 V 45 ... 65 Hz	1.7	1.8	6.10 x 2.36 x 5.12	16116977	i	🛒
i550-C0.37/230-2	0.5		2.4	1.8	6.10 x 2.36 x 5.12	16090651	i	🛒
i550-C0.55/230-2	0.75		3.2	2.2	7.08 x 2.36 x 5.12	16100730	i	🛒
i550-C0.75/230-2	1		4.2	2.2	7.08 x 2.36 x 5.12	16094146	i	🛒
i550-C1.1/230-2	1.5		6	3	9.84 x 2.36 x 5.12	16175770	i	🛒
i550-C1.5/230-2	2		7	3	9.84 x 2.36 x 5.12	16080497	i	🛒
i550-C2.2/230-2	3		9.6	3	9.84 x 2.36 x 5.12	16080946	i	🛒
i550-C4.0/230-3	5		16.5	4.6	9.84 x 3.54 x 5.12	16070330	i	🛒
i550-C5.5/230-3	7.5		23	4.6	9.84 x 3.54 x 5.12	16068824	i	🛒

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 480 V mains

Conformities	CE	2014/30/EU	2014/35/EU
	EAC	TP TC 020/2011	TR TC 004/2011
	RoHS	2011/65/EU	
Approvals	UL	UL 61800-5-1	CSA 22.2 No. 274
Degree of protection	EN	EN 60529	IP20
	NEMA	NEMA 250	Open type
	UL	UL 50	
Power systems	TT, TN, IT	Voltage to earth: max. 300 V	
Cyclic mains switching		up to 60 hp 3 x within one minute possible, above 1x within one minute possible	
Operation on residual current device (RCD)		up to 15 hp (except for 7.5 hp) 30 mA 7.5 hp and 20 ... 175 hp 300 mA	
Max. cable length for EMC	Category C2	max. 15 m up to 0.5 hp, above max. 65 ft	
	Category C3	max. 49 ft up to 0.5 hp, max. 115 ft 0.75 ... 60 hp, above 328 ft	
Switching frequencies		2, 4, 8, 16 kHz The rated output currents apply at 113 °F and switching frequencies of 2 and 4 kHz, and at 104 °F and switching frequencies of 8 and 16 kHz	
Ambient temperature operation	EN 60721-3-3	3K3 (14 ... 131 °F)	
Output frequency		0 ... 599 Hz	
Overload capacity		200 % for 3 s; Heavy Duty: 150 % for 60 s; Light Duty: 120 % for 60 s	

	P_{rated} [hp]	U_{mains} [V]	I_{rated} [A]	m [lb]	H x W x D [in]	Material number Basic variant		
3-phase mains connection 480 V – Heavy Duty with integrated RFI filter								
i550-C0.37/400-3	0.5	3/PE AC 340 V ... 528 V 45 ... 65 Hz	1.1	1.8	6.10 x 2.36 x 5.12	16083264	i	🛒
i550-C0.55/400-3	0.75		1.6	2.2	7.08 x 2.36 x 5.12	16069616	i	🛒
i550-C0.75/400-3	1		2.1	2.2	7.08 x 2.36 x 5.12	16064346	i	🛒
i550-C1.1/400-3	1.5		3	3	9.84 x 2.36 x 5.12	16073139	i	🛒
i550-C1.5/400-3	2		3.5	3	9.84 x 2.36 x 5.12	16064437	i	🛒
i550-C2.2/400-3	3		4.8	3	9.84 x 2.36 x 5.12	16069617	i	🛒
i550-C3.0/400-3	4		6.3	3	9.84 x 2.36 x 5.12	16270956	i	🛒
i550-C4.0/400-3	5		8.2	3	9.84 x 2.36 x 5.12	16270975	i	🛒
i550-C5.5/400-3	7.5		11	5.1	9.84 x 3.54 x 5.12	16066880	i	🛒
i550-C7.5/400-3	10		14	8.2	10.86 x 4.72 x 5.12	16066318	i	🛒
i550-C11/400-3	15		21	8.2	10.86 x 4.72 x 5.12	16069880	i	🛒
i550-C15/400-3	20		27	22.7	13.66 x 8.05 x 8.74	16066879	i	🛒
i550-C18/400-3	25		34	22.7	13.66 x 8.05 x 8.74	16116039	i	🛒
i550-C22/400-3	30		40.4	22.7	13.66 x 8.05 x 8.74	16089626	i	🛒
i550-C30/400-3	40		52	37.9	17.71 x 9.84 x 9.05	16082977	i	🛒
i550-C.37/400-3	50		65	37.9	17.71 x 9.84 x 9.05	16064452	i	🛒
i550-C45/400-3	60		77	37.9	17.71 x 9.84 x 9.05	16109788	i	🛒
i550-C55/400-3	75		96	52.9	21.09 x 9.84 x 10.43	16066939	i	🛒
i550-C75/400-3	100		124	52.9	21.09 x 9.84 x 10.43	16064888	i	🛒
i550-C90/400-3	125	156	78.5	26.96 x 11.22 x 11.96	16140399	i	🛒	
i550-C110/400-3	150	162	78.5	26.96 x 11.22 x 11.96	16111878	i	🛒	
3-phase mains connection 480 V – Light Duty with integrated RFI filter								
i550-C3.0/400-3	5	3/PE AC 340 V ... 528 V 45 ... 65 Hz	7.6	3	9.84 x 2.36 x 5.12	16270956	i	🛒
i550-C4.0/400-3	7.5		9.8	3	9.84 x 2.36 x 5.12	16270975	i	🛒
i550-C5.5/400-3	10		13.2	5.1	9.84 x 3.54 x 5.12	16066880	i	🛒
i550-C7.5/400-3	15		18.3	8.2	10.86 x 4.72 x 5.12	16066318	i	🛒
i550-C11/400-3	20		25.2	8.2	10.86 x 4.72 x 5.12	16069880	i	🛒
i550-C15/400-3	25		32.4	22.7	13.66 x 8.05 x 8.74	16066879	i	🛒
i550-C18/400-3	30		40.8	22.7	13.66 x 8.05 x 8.74	16116039	i	🛒
i550-C22/400-3	40		48.5	22.7	13.66 x 8.05 x 8.74	16089626	i	🛒
i550-C30/400-3	50		62.4	37.9	17.71 x 9.84 x 9.05	16082977	i	🛒
i550-C37/400-3	60		78	37.9	17.71 x 9.84 x 9.05	16064452	i	🛒
i550-C45/400-3	75		92.4	37.9	17.71 x 9.84 x 9.05	16109788	i	🛒
i550-C55/400-3	100		115	52.9	21.09 x 9.84 x 10.43	16066939	i	🛒
i550-C75/400-3	125		149	52.9	21.09 x 9.84 x 10.43	16064888	i	🛒
i550-C90/400-3	150		187	78.5	26.96 x 11.22 x 11.96	16140399	i	🛒
i550-C110/400-3	175		216	78.5	26.96 x 11.22 x 11.96	16111878	i	🛒

Mains choke is generally prescribed from 30 hp (for Light Duty from 20 hp).

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	Application I/O	
Basic variant	•	

Diagnostics		
No module	Keypad	WLAN module
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	•	

i510 protec frequency inverter

Connection to 120 V mains and 230 V mains with NEMA 1 (IP20) protection

Approvals	UL	UL 61800-5-1	CSA 22.2 No. 274
Degree of protection	EN	EN 60529	IP20
	NEMA	NEMA 250	Type 1
	UL	UL 50	
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)	up to 3 hp 30 mA		
Max. cable length for EMC	Category C2	depending on the external filter used	
	Category C3	depending on the external filter used	
Switching frequencies	2, 4, 8, 12, 16 kHz The rated output currents apply at 113 °F and switching frequencies of 2 and 4 kHz, and at 104 °F and switching frequencies of 8, 12 and 16 kHz		
Ambient temperature operation	EN 60721-3-3	3K3 (-22 ... 131 °F)	
Output frequency	0 ... 599 Hz		
Overload capacity	200 % for 3 s; Heavy Duty: 150 % for 60 s; Light Duty: 120 % for 60 s		

	P_{rated} [hp]	U_{mains} [V]	I_{rated} [A]	Degree of protection	m [lb]	H x W x D [in]	Material number Basic variant	
1-phase mains connection 120 V – Heavy Duty without integrated RFI filter								
i510-P0.37/120-1	0.5	1/N/PE AC +90V- +132V	2.4	NEMA 1 (IP20)	3.1	7.87 x 3.94 x 4.09	16559175	i
i510-P0.75/120-1	1	45 ... 65 Hz	4.2	NEMA 1 (IP20)	3.5	7.87 x 3.94 x 4.09	16504265	i
1-phase mains connection 230/240 V – Heavy Duty without integrated RFI filter								
i510-P0.37/230-2	0.5	1/N/PE AC 170 V ... 264 V 45 ... 65 Hz	2.4	NEMA 1 (IP20)	3.1	7.87 x 3.94 x 4.09	16559477	i
i510-P0.75/230-2	1		4.2	NEMA 1 (IP20)	3.1	7.87 x 3.94 x 4.09	16559481	i
i510-P1.1/230-2	1.5		6	NEMA 1 (IP20)	3.3	7.87 x 3.94 x 4.09	16559484	i
i510-P1.5/230-2	2		7	NEMA 1 (IP20)	3.3	7.87 x 3.94 x 4.09	16559488	i
i510-P2.2/230-2	3		9.6	NEMA 1 (IP20)	3.3	9.05 x 3.94 x 4.09	16519462	i
1-phase mains connection 230/240 V – Light Duty without integrated RFI filter								
i510-P0.37/230-2	0.75	1/N/PE AC 170 V ... 264 V 45 ... 65 Hz	2.9	NEMA 1 (IP20)	3.1	7.87 x 3.94 x 4.09	16559477	i
i510-P0.75/230-2	1.5		5	NEMA 1 (IP20)	3.1	7.87 x 3.94 x 4.09	16559481	i
i510-P1.1/230-2	2		7.2	NEMA 1 (IP20)	3.3	7.87 x 3.94 x 4.09	16559484	i
i510-P1.5/230-2	3		8.4	NEMA 1 (IP20)	3.3	7.87 x 3.94 x 4.09	16559488	i
i510-P2.2/230-2	4		11.5	NEMA 1 (IP20)	3.3	9.05 x 3.94 x 4.09	16519462	i
3-phase mains connection 230/240 V – Heavy Duty without integrated RFI filter								
i510-P0.37/230-2	0.5	3/PE AC 170 V ... 264 V 45 ... 65 Hz	2.4	NEMA 1 (IP20)	3.1	7.87 x 3.94 x 4.09	16559477	i
i510-P0.75/230-2	1		4.2	NEMA 1 (IP20)	3.1	7.87 x 3.94 x 4.09	16559481	i
i510-P1.1/230-2	1.5		6	NEMA 1 (IP20)	3.3	7.87 x 3.94 x 4.09	16559484	i
i510-P1.5/230-2	2		7	NEMA 1 (IP20)	3.3	7.87 x 3.94 x 4.09	16559488	i
i510-P2.2/230-2	3		9.6	NEMA 1 (IP20)	3.3	9.05 x 3.94 x 4.09	16519462	i
i510-P3.0/230-3	4		12	NEMA 1 (IP20)	3.5	9.05 x 3.94 x 4.09	16559231	i
i510-P4.0/230-3	5		16.5	NEMA 1 (IP20)	3.5	9.05 x 3.94 x 4.09	16519463	i
3-phase mains connection 230/240 V – Light Duty without integrated RFI filter								
i510-P0.37/230-2	0.75	3/PE AC 170 V ... 264 V 45 ... 65 Hz	2.9	NEMA 1 (IP20)	3.1	7.87 x 3.94 x 4.09	16559477	i
i510-P0.75/230-2	1.5		5	NEMA 1 (IP20)	3.1	7.87 x 3.94 x 4.09	16559481	i
i510-P1.1/230-2	2		7.2	NEMA 1 (IP20)	3.3	7.87 x 3.94 x 4.09	16559484	i
i510-P1.5/230-2	3		8.4	NEMA 1 (IP20)	3.3	7.87 x 3.94 x 4.09	16559488	i
i510-P2.2/230-2	4		11.5	NEMA 1 (IP20)	3.3	9.05 x 3.94 x 4.09	16519462	i
i510-P3.0/230-3	5		14.4	NEMA 1 (IP20)	3.5	9.05 x 3.94 x 4.09	16559231	i
i510-P4.0/230-3	7.5		19.8	NEMA 1 (IP20)	3.5	9.05 x 3.94 x 4.09	16519463	i

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

i510 protec frequency inverter

Connection to 480 V mains with NEMA 1 (IP20) protection

Approvals	UL	UL 61800-5-1	CSA 22.2 No. 274
Degree of protection	EN	EN 60529	IP20
	NEMA	NEMA 250	Type 1
	UL	UL 50	
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)	up to 3 hp 30 mA		
Max. cable length for EMC	Category C2	depending on the external filter used	
	Category C3	depending on the external filter used	
Switching frequencies	2, 4, 8, 12, 16 kHz The rated output currents apply at 113 °F and switching frequencies of 2 and 4 kHz, and at 104 °F and switching frequencies of 8, 12 and 16 kHz		
Ambient temperature operation	EN 60721-3-3	3K3 (-22 ... 131 °F)	
Output frequency	0 ... 599 Hz		
Overload capacity	200 % for 3 s; Heavy Duty: 150 % for 60 s; Light Duty: 120 % for 60 s		

	P_{rated} [hp]	U_{mains} [V]	I_{rated} [A]	Degree of protection	m [lb]	H x W x D [in]	Material number Basic variant		
3-phase mains connection 480 V – Heavy Duty without integrated RFI filter									
i510-P0.75/400-3	1	3/PE AC 340 V ... 528 V 45 ... 65 Hz	2.1	NEMA 1 (IP20)	3.1	7.87 x 3.94 x 4.09	16515111	i	
i510-P1.1/400-3	1.5		5	NEMA 1 (IP20)	3.3	7.87 x 3.94 x 4.09	16559456	i	
i510-P1.5/400-3	2		3.5	NEMA 1 (IP20)	3.3	7.87 x 3.94 x 4.09	16515212	i	
i510-P2.2/400-3	3		4.8	NEMA 1 (IP20)	3.3	7.87 x 3.94 x 4.09	16515213	i	
i510-P3/400-3	4		6.3	NEMA 1 (IP20)	3.5	9.05 x 3.94 x 4.09	16559467	i	
i510-P4/400-3	5		8.2	NEMA 1 (IP20)	3.5	9.05 x 3.94 x 4.09	16533303	i	
i510-P5.5/400-3	7.5		11	NEMA 1 (IP20)	3.5	9.05 x 3.94 x 4.09	16559473	i	
3-phase mains connection 480 V – Light Duty without integrated RFI filter									
i510-P0.75/400-3	1.5	3/PE AC 340 V ... 528 V 45 ... 65 Hz	2.5	NEMA 1 (IP20)	3.1	7.87 x 3.94 x 4.09	16515111	i	
i510-P1.1/400-3	2		3.6	NEMA 1 (IP20)	3.3	7.87 x 3.94 x 4.09	16559456	i	
i510-P1.5/400-3	3		4.2	NEMA 1 (IP20)	3.3	7.87 x 3.94 x 4.09	16515212	i	
i510-P2.2/400-3	4		5.8	NEMA 1 (IP20)	3.3	7.87 x 3.94 x 4.09	16515213	i	
i510-P3/400-3	5		7.6	NEMA 1 (IP20)	3.5	9.05 x 3.94 x 4.09	16559467	i	
i510-P4/400-3	7.5		9.8	NEMA 1 (IP20)	3.5	9.05 x 3.94 x 4.09	16533303	i	
i510-P5.5/400-3	10		13.2	NEMA 1 (IP20)	3.5	9.05 x 3.94 x 4.09	16559473	i	

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

Variance of the i510 protec frequency inverters

The basic version of the i510 protec 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		
Basic variant		

Diagnostics		
No module	Keypad	WLAN module
Basic variant	•	•

Fieldbuses		
No fieldbus	CANopen	Modbus RTU
Basic variant	•	•

i550 protec frequency inverter

Connection to 120 V mains and 1 x 230 V mains with NEMA 1 (IP31) protection

Approvals	UL	UL 61800-5-1	CSA 22.2 No. 274
Degree of protection	EN	EN 60529	IP31
	NEMA	NEMA 250	IP66
			Type 1
	UL	UL 50	Type 4X Indoor & Outdoor
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)		up to 3 hp 30 mA, above this 300 mA	
Max. cable length for EMC	Category C2	Max. 20 m	
	Category C3	max. 35 m	
Switching frequencies		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	
Ambient temperature operation	EN 60721-3-3	3K3 (-22 ... 131°F)	
Output frequency		0 ... 599 Hz	
Overload capacity		200 % for 3 s; Heavy Duty: 150 % for 60 s; Light Duty: 120 % for 60 s	

	P_{rated} [hp]	U_{mains} [V]	I_{rated} [A]	Degree of protection	m [lb]	H x W x D [in]	Material number Basic variant		
1-phase mains connection 120 V – Heavy Duty without integrated RFI filter									
i550-P0.37/120-1	0.5	1/N/PE AC	2.4	NEMA 1 (IP31)	3.7	7.48 x 5.51 x 4.60	16289100		
i550-P0.75/120-1	1	90 V ... 132 V	4.2	NEMA 1 (IP31)	5.7	8.07 x 5.51 x 5.51	16289101		
i550-P1.1/120-1	1.5	45 ... 65 Hz	6	NEMA 1 (IP31)	5.7	8.07 x 5.51 x 5.51	16289172		
1-phase mains connection 230/240 V – Heavy Duty without integrated RFI filter									
i550-P0.37/230-2	0.5	1/N/PE AC 170 V ... 264 V 45 ... 65 Hz	2.4	NEMA 1 (IP31)	3.5	7.48 x 5.51 x 4.60	16289463		
i550-P0.55/230-2	0.75		3.2	NEMA 1 (IP31)	3.5	7.48 x 5.51 x 4.60	16289464		
i550-P0.75/230-2	1		4.2	NEMA 1 (IP31)	3.5	7.48 x 5.51 x 4.60	16289465		
i550-P1.1/230-2	1.5		6	NEMA 1 (IP31)	5.5	8.07 x 5.51 x 5.51	16289466		
i550-P1.5/230-2	2		7	NEMA 1 (IP31)	5.5	8.07 x 5.51 x 5.51	16289467		
i550-P2.2/230-2	3		9.6	NEMA 1 (IP31)	5.5	8.07 x 5.51 x 5.51	16289468		
1-phase mains connection 230/240 V – Light Duty without integrated RFI filter									
i550-P0.37/230-2	0.75	1/N/PE AC 170 V ... 264 V 45 ... 65 Hz	2.9	NEMA 1 (IP31)	3.5	7.48 x 5.51 x 4.60	16289463		
i550-P0.55/230-2	1		3.8	NEMA 1 (IP31)	3.5	7.48 x 5.51 x 4.60	16289464		
i550-P0.75/230-2	1.5		5	NEMA 1 (IP31)	3.5	7.48 x 5.51 x 4.60	16289465		
i550-P1.1/230-2	2		7.2	NEMA 1 (IP31)	5.5	8.07 x 5.51 x 5.51	16289466		
i550-P1.5/230-2	3		8.4	NEMA 1 (IP31)	5.5	8.07 x 5.51 x 5.51	16289467		
i550-P2.2/230-2	4		11.5	NEMA 1 (IP31)	5.5	8.07 x 5.51 x 5.51	16289468		

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.

i550 protec frequency inverter

Connection to 3 x 230 V mains with NEMA 1 (IP31) protection

Approvals	UL	UL 61800-5-1	CSA 22.2 No. 274
Degree of protection	EN	EN 60529	IP31
	NEMA	NEMA 250	Type 1
	UL	UL 50	
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)		up to 3 hp 30 mA, above this 300 mA	
Max. cable length for EMC	Category C2	max. 65 ft	
	Category C3	max. 115 ft	
Switching frequencies		2, 4, 8, 12, 16 kHz The rated output currents apply at 113 °F and switching frequencies of 2 and 4 kHz, and at 104 °F and switching frequencies of 8, 12 and 16 kHz	
Ambient temperature operation	EN 60721-3-3	3K3 (-22 ... 131 °F)	
Output frequency		0 ... 599 Hz	
Overload capacity		200 % for 3 s; Heavy Duty: 150 % for 60 s; Light Duty: 120 % for 60 s	

	P_{rated} [hp]	U_{mains} [V]	I_{rated} [A]	Degree of protection	m [lb]	H x W x D [in]	Material number Basic variant		
3-phase mains connection 230/240 V – Heavy Duty without integrated RFI filter									
i550-P0.37/230-2	0.5	3/N/PE AC 195 V ... 264 V 45 ... 65 Hz	2.4	NEMA 1 (IP31)	3.5	7.48 x 5.51 x 4.60	16289463		
i550-P0.55/230-2	0.75		3.2	NEMA 1 (IP31)	3.5	7.48 x 5.51 x 4.60	16289464		
i550-P0.75/230-2	1		4.2	NEMA 1 (IP31)	3.5	7.48 x 5.51 x 4.60	16289465		
i550-P1.1/230-2	1.5		6	NEMA 1 (IP31)	5.5	8.07 x 5.51 x 5.51	16289466		
i550-P1.5/230-2	2		7	NEMA 1 (IP31)	5.5	8.07 x 5.51 x 5.51	16289467		
i550-P2.2/230-2	3		9.6	NEMA 1 (IP31)	5.5	8.07 x 5.51 x 5.51	16289468		
i550-P3.0/230-3	4		12	NEMA 1 (IP31)	10.6	9.84 x 7.09 x 6.61	16438129		
i550-P4.0/230-3	5		16.5	NEMA 1 (IP31)	10.6	9.84 x 7.09 x 6.61	16438143		
i550-P5.5/230-3	7.5		23	NEMA 1 (IP31)	10.6	9.84 x 7.09 x 6.61	16438157		
i550-P7.5/230-3	10		29	NEMA 1 (IP31)	11	11.42 x 7.09 x 6.81	16438167		
i550-P11/230-3	15		42	NEMA 1 (IP31)	11	11.42 x 7.09 x 6.81	16438193		
i550-P15/230-3	20		54	NEMA 1 (IP31)	22.3	15.94 x 9.06 x 7.36	16482612		
i550-P18/230-3	25		68	NEMA 1 (IP31)	22.3	15.94 x 9.06 x 7.36	16482679		
3-phase mains connection 230/240 V – Light Duty without integrated RFI filter									
i550-P0.37/230-2	0.75	3/N/PE AC 195 V ... 264 V 45 ... 65 Hz	2.9	NEMA 1 (IP31)	3.5	7.48 x 5.51 x 4.60	16289463		
i550-P0.55/230-2	1		3.8	NEMA 1 (IP31)	3.5	7.48 x 5.51 x 4.60	16289464		
i550-P0.75/230-2	1.5		5	NEMA 1 (IP31)	3.5	7.48 x 5.51 x 4.60	16289465		
i550-P1.1/230-2	2		7.2	NEMA 1 (IP31)	5.5	8.07 x 5.51 x 5.51	16289466		
i550-P1.5/230-2	3		8.4	NEMA 1 (IP31)	5.5	8.07 x 5.51 x 5.51	16289467		
i550-P2.2/230-2	4		11.5	NEMA 1 (IP31)	5.5	8.07 x 5.51 x 5.51	16289468		
i550-P3.0/230-3	5		14.4	NEMA 1 (IP31)	10.6	9.84 x 7.09 x 6.61	16438129		
i550-P4.0/230-3	7.5		19.8	NEMA 1 (IP31)	10.6	9.84 x 7.09 x 6.61	16438143		
i550-P5.5/230-3	10		27.6	NEMA 1 (IP31)	10.6	9.84 x 7.09 x 6.61	16438157		
i550-P7.5/230-3	15		34.8	NEMA 1 (IP31)	11	11.42 x 7.09 x 6.81	16438167		
i550-P15/230-3	25		64.8	NEMA 1 (IP31)	22.3	15.94 x 9.06 x 7.36	16482612		
i550-P18/230-3	30		81.6	NEMA 1 (IP31)	22.3	15.94 x 9.06 x 7.36	16482679		

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.

i550 protec frequency inverter

Connection to 480 V mains with NEMA 1 (IP31) protection

Approvals	UL	UL 61800-5-1	CSA 22.2 No. 274
Degree of protection	EN	EN 60529	IP31
	NEMA	NEMA 250	Type 1
	UL	UL 50	
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)	up to 3 hp 30 mA, above this 300 mA		
Max. cable length for EMC	Category C2	max. 65ft	
	Category C3	max. 115 ft	
Switching frequencies	2, 4, 8, 12, 16 kHz The rated output currents apply at 113 °F and switching frequencies of 2 and 4 kHz, and at 104 °F and switching frequencies of 8, 12 and 16 kHz		
Ambient temperature operation	EN 60721-3-3	3K3 (-22 ... 131 °F)	
Output frequency	0 ... 599 Hz		
Overload capacity	200 % for 3 s; Heavy Duty: 150 % for 60 s; Light Duty: 120 % for 60 s		

	P_{rated} [hp]	U_{mains} [V]	I_{rated} [A]	Degree of protection	m [lb]	H x W x D [in]	Material number Basic variant		
3-phase mains connection 480 V – Heavy Duty with integrated RFI filter									
i550-P0.37/400-3	0.5	3/N/PE AC 340 V ... 528 V 45 ... 65 Hz	1.1	NEMA 1 (IP31)	3.7	7.48 x 5.51 x 4.60	16289546	i	🛒
i550-P0.55/400-3	0.75		1.6	NEMA 1 (IP31)	3.7	7.48 x 5.51 x 4.60	16289548	i	🛒
i550-P0.75/400-3	1		2.1	NEMA 1 (IP31)	3.7	7.48 x 5.51 x 4.60	16289549	i	🛒
i550-P1.1/400-3	1.5		3	NEMA 1 (IP31)	5.7	8.07 x 5.51 x 5.51	16289550	i	🛒
i550-P1.5/400-3	2		3.5	NEMA 1 (IP31)	5.7	8.07 x 5.51 x 5.51	16289551	i	🛒
i550-P2.2/400-3	3		4.8	NEMA 1 (IP31)	5.7	8.07 x 5.51 x 5.51	16289552	i	🛒
i550-P3.0/400-3	4		6.3	NEMA 1 (IP31)	10.6	9.84 x 7.09 x 6.61	16438179	i	🛒
i550-P4.0/400-3	5		8.2	NEMA 1 (IP31)	10.6	9.84 x 7.09 x 6.61	16438188	i	🛒
i550-P5.5/400-3	7.5		11	NEMA 1 (IP31)	10.6	9.84 x 7.09 x 6.61	16438235	i	🛒
i550-P7.5/400-3	10		14	NEMA 1 (IP31)	11	11.42 x 7.09 x 6.81	16438244	i	🛒
i550-P11/400-3	15		21	NEMA 1 (IP31)	11	11.42 x 7.09 x 6.81	16438110	i	🛒
i550-P15/400-3	20		27	NEMA 1 (IP31)	22.3	15.94 x 9.06 x 7.36	16482599	i	🛒
i550-P18/400-3	25		34	NEMA 1 (IP31)	22.3	15.94 x 9.06 x 7.36	16482696	i	🛒
i550-P22/400-3	30		40.4	NEMA 1 (IP31)	22.3	15.94 x 9.06 x 7.36	16482774	i	🛒
3-phase mains connection 480 V – Light Duty with integrated RFI filter									
i550-P0.37/400-3	0.75	3/N/PE AC 340 V ... 528 V 45 ... 65 Hz	1.3	NEMA 1 (IP31)	3.7	7.48 x 5.51 x 4.60	16289546	i	🛒
i550-P0.55/400-3	1		1.9	NEMA 1 (IP31)	3.7	7.48 x 5.51 x 4.60	16289548	i	🛒
i550-P0.75/400-3	1.5		2.5	NEMA 1 (IP31)	3.7	7.48 x 5.51 x 4.60	16289549	i	🛒
i550-P1.1/400-3	2		3.6	NEMA 1 (IP31)	5.7	8.07 x 5.51 x 5.51	16289550	i	🛒
i550-P1.5/400-3	3		4.2	NEMA 1 (IP31)	5.7	8.07 x 5.51 x 5.51	16289551	i	🛒
i550-P2.2/400-3	4		5.8	NEMA 1 (IP31)	5.7	8.07 x 5.51 x 5.51	16289552	i	🛒
i550-P3.0/400-3	5		7.6	NEMA 1 (IP31)	10.6	9.84 x 7.09 x 6.61	16438179	i	🛒
i550-P4.0/400-3	7.5		9.8	NEMA 1 (IP31)	10.6	9.84 x 7.09 x 6.61	16438188	i	🛒
i550-P5.5/400-3	10		13.2	NEMA 1 (IP31)	10.6	9.84 x 7.09 x 6.61	16438235	i	🛒
i550-P7.5/400-3	15		18.3	NEMA 1 (IP31)	11	11.42 x 7.09 x 6.81	16438244	i	🛒
i550-P11/400-3	20		25.2	NEMA 1 (IP31)	11	11.42 x 7.09 x 6.81	16438110	i	🛒
i550-P15/400-3	25		32.4	NEMA 1 (IP31)	22.3	15.94 x 9.06 x 7.36	16482599	i	🛒
i550-P18/400-3	30		40.8	NEMA 1 (IP31)	22.3	15.94 x 9.06 x 7.36	16482696	i	🛒
i550-P22/400-3	40		48.5	NEMA 1 (IP31)	22.3	15.94 x 9.06 x 7.36	16482774	i	🛒

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.

i550 protec frequency inverter

Connection to 3 x 600 V mains with NEMA 1 (IP31) protection

Approvals	UL	UL 61800-5-1	CSA 22.2 No. 274
Degree of protection	EN	EN 60529	IP31
	NEMA	NEMA 250	Type 1
	UL	UL 50	
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)	up to 3 hp 30 mA, above this 300 mA		
Max. cable length for EMC	Category C2	max. 65 ft	
	Category C3	max. 115 ft	
Switching frequencies	2, 4, 8, 12, 16 kHz The rated output currents apply at 113 °F and switching frequencies of 2 and 4 kHz, and at 104 °F and switching frequencies of 8, 12 and 16 kHz		
Ambient temperature operation	EN 60721-3-3	3K3 (-22 ... 131 °F)	
Output frequency	0 ... 599 Hz		
Overload capacity	200 % for 3 s; Heavy Duty: 150 % for 60 s; Light Duty: 120 % for 60 s		

	P_{rated} [hp]	U_{mains} [V]	I_{rated} [A]	Degree of protection	m [lb]	H x W x D [in]	Material number Basic variant		
3-phase mains connection 600 V – Heavy Duty without integrated RFI filter									
i550-P0.75/600-3	1	3/PE AC 425 ... 660 V 45 ... 65 Hz	1.7	NEMA 1 (IP31)	3.7	7.48 x 5.51 x 4.60	16482538		
i550-P1.5/600-3	2		2.7	NEMA 1 (IP31)	5.7	8.07 x 5.51 x 5.51	16482541		
i550-P2.2/600-3	3		3.9	NEMA 1 (IP31)	5.7	8.07 x 5.51 x 5.51	16482565		
i550-P4.0/600-3	5		6.1	NEMA 1 (IP31)	10.6	9.84 x 7.09 x 6.61			
i550-P5.5/600-3	7.5		9	NEMA 1 (IP31)	10.6	9.84 x 7.09 x 6.61			
i550-P7.5/600-3	10		11	NEMA 1 (IP31)	11	11.42 x 7.09 x 6.81			
i550-P11/600-3	15		17	NEMA 1 (IP31)	11	11.42 x 7.09 x 6.81			
i550-P15/600-3	20		22	NEMA 1 (IP31)	22.3	15.94 x 9.06 x 7.36			
i550-P18/600-3	25		27	NEMA 1 (IP31)	22.3	15.94 x 9.06 x 7.36			
i550-P22/600-3	30		32	NEMA 1 (IP31)	22.3	15.94 x 9.06 x 7.36			
3-phase mains connection 600 V – Light Duty without integrated RFI filter									
i550-P0.75/600-3	1.5	3/PE AC 425 ... 660 V 45 ... 65 Hz	2	NEMA 1 (IP31)	3.7	7.48 x 5.51 x 4.60	16482538		
i550-P1.5/600-3	3		3.2	NEMA 1 (IP31)	5.7	8.07 x 5.51 x 5.51	16482541		
i550-P2.2/600-3	4		4.7	NEMA 1 (IP31)	5.7	8.07 x 5.51 x 5.51	16482565		
i550-P4.0/600-3	7,5		7.9	NEMA 1 (IP31)	10.6	9.84 x 7.09 x 6.61			
i550-P5.5/600-3	10		10.8	NEMA 1 (IP31)	10.6	9.84 x 7.09 x 6.61			
i550-P7.5/600-3	15		13.2	NEMA 1 (IP31)	11	11.42 x 7.09 x 6.81			
i550-P11/600-3	20		22	NEMA 1 (IP31)	11	11.42 x 7.09 x 6.81			
i550-P15/600-3	25		27	NEMA 1 (IP31)	22.3	15.94 x 9.06 x 7.36			
i550-P18/600-3	30		32.4	NEMA 1 (IP31)	22.3	15.94 x 9.06 x 7.36			
i550-P22/600-3	40		41	NEMA 1 (IP31)	22.3	15.94 x 9.06 x 7.36			

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.

i550 protec frequency inverter

Connection to 120 V mains and 230 V mains with NEMA 4X (IP66) protection

Approvals	UL	UL 61800-5-1	CSA 22.2 No. 274
Degree of protection	EN	EN 60529	IP55
	NEMA	NEMA 250	IP66
			Type 12
	UL	UL 50	Type 4X Indoor & Outdoor
Environmental conditions	EN 60721-3-3	3M3	For mechanical, active substances
		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)	up to 3 hp 30 mA, above this 300 mA		
Max. cable length for EMC	Category C2	max. 65 ft	
	Category C3	max. 115 ft	
Switching frequencies	2, 4, 8, 12, 16 kHz The rated output currents apply at 113 °F and switching frequencies of 2 and 4 kHz, and at 104 °F and switching frequencies of 8, 12 and 16 kHz		
Ambient temperature operation	EN 60721-3-3	3K3 (-22 ... 131 °F)	
Output frequency	0 ... 599 Hz		
Overload capacity	200 % for 3 s; Heavy Duty: 150 % for 60 s; Light Duty: 120 % for 60 s		

	P_{rated} [hp]	U_{mains} [V]	I_{rated} [A]	Degree of protection	m [lb]	H x W x D [in]	Material number Basic variant		
1-phase mains connection 120 V – Heavy Duty without integrated RFI filter									
i550-P0.37/120-1	0.5	1/N/PE AC	2.4	NEMA 4X (IP66)	4	7.48 x 5.51 x 4.60	16289615	i	🛒
i550-P0.75/120-1	1	90 V ... 132 V	4.2	NEMA 4X (IP66)	6	8.07 x 5.51 x 5.51	16289616	i	🛒
i550-P1.1/120-1	1.5	45 ... 65 Hz	6	NEMA 4X (IP66)	6	8.07 x 5.51 x 5.51	16289617	i	🛒
1-phase mains connection 230/240 V – Heavy Duty with integrated RFI filter									
i550-P0.37/230-1	0.5	1/N/PE AC 170 V ... 264 V 45 ... 65 Hz	2.4	NEMA 4X (IP66)	4	7.48 x 5.51 x 4.60	16289805	i	🛒
i550-P0.55/230-1	0.75		3.2	NEMA 4X (IP66)	4	7.48 x 5.51 x 4.60	16289806	i	🛒
i550-P0.75/230-1	1		4.2	NEMA 4X (IP66)	4	7.48 x 5.51 x 4.60	16289807	i	🛒
i550-P1.1/230-1	1.5		6	NEMA 4X (IP66)	6	8.07 x 5.51 x 5.51	16289808	i	🛒
i550-P1.5/230-1	2		7	NEMA 4X (IP66)	6	8.07 x 5.51 x 5.51	16289809	i	🛒
i550-P2.2/230-1	3		9.6	NEMA 4X (IP66)	6	8.07 x 5.51 x 5.51	16289810	i	🛒
1-phase mains connection 230/240 V - Heavy Duty without integrated RFI filter									
i550-P0.37/230-2	0.5	1/N/PE AC 170 V ... 264 V 45 ... 65 Hz	2.4	NEMA 4X (IP66)	3.7	7.48 x 5.51 x 4.60	16289896	i	🛒
i550-P0.55/230-2	0.75		3.2	NEMA 4X (IP66)	3.7	7.48 x 5.51 x 4.60	16289897	i	🛒
i550-P0.75/230-2	1		4.2	NEMA 4X (IP66)	3.7	7.48 x 5.51 x 4.60	16289898	i	🛒
i550-P1.1/230-2	1.5		6	NEMA 4X (IP66)	5.7	8.07 x 5.51 x 5.51	16289899	i	🛒
i550-P1.5/230-2	2		7	NEMA 4X (IP66)	5.7	8.07 x 5.51 x 5.51	16289900	i	🛒
i550-P2.2/230-2	3		9.6	NEMA 4X (IP66)	5.7	8.07 x 5.51 x 5.51	16289912	i	🛒
3-phase mains connection 230/240 V – Heavy Duty without integrated RFI filter									
i550-P0.37/230-2	0.5	3/PE AC 170 V ... 264 V 45 ... 65 Hz	2.4	NEMA 4X (IP66)	3.7	7.48 x 5.51 x 4.60	16289896	i	🛒
i550-P0.55/230-2	0.75		3.2	NEMA 4X (IP66)	3.7	7.48 x 5.51 x 4.60	16289897	i	🛒
i550-P0.75/230-2	1		4.2	NEMA 4X (IP66)	3.7	7.48 x 5.51 x 4.60	16289898	i	🛒
i550-P1.1/230-2	1.5		6	NEMA 4X (IP66)	5.7	8.07 x 5.51 x 5.51	16289899	i	🛒
i550-P1.5/230-2	2		7	NEMA 4X (IP66)	5.7	8.07 x 5.51 x 5.51	16289900	i	🛒
i550-P2.2/230-2	3		9.6	NEMA 4X (IP66)	5.7	8.07 x 5.51 x 5.51	16289912	i	🛒
i550-P3.0/230-3	4		12	NEMA 4X (IP66)	10.8	9.84 x 7.08 x 6.61	16438365	i	🛒
i550-P4.0/230-3	5		16.5	NEMA 4X (IP66)	10.8	9.84 x 7.08 x 6.61	16438369	i	🛒
i550-P5.5/230-3	7.5		23	NEMA 4X (IP66)	10.8	9.84 x 7.08 x 6.61	16438390	i	🛒
i550-P7.5/230-3	10		29	NEMA 4X (IP66)	11.2	11.41 x 7.08 x 6.81	16438405	i	🛒
i550-P11/230-3	15		42	NEMA 4X (IP66)	11.2	11.41 x 7.08 x 6.81	16438121	i	🛒
i550-P15/230-3	20		54	NEMA 4X (IP66)	22.5	15.94 x 9.06 x 7.36	16482632	i	🛒
i550-P18/230-3	25		68	NEMA 4X (IP66)	22.5	15.94 x 9.06 x 7.36	16482707	i	🛒
i550-P30/230-3	40		89	NEMA 12 (IP55)	101.4	30.64 x 11.74 x 11.24			
i550-P45/230-3	60		150	NEMA 12 (IP55)	116.8	30.64 x 11.74 x 14.86			

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.

i550 protec frequency inverter

Connection to 480 V and 600 V mains with NEMA 4X (IP66) protection

Approvals	UL	UL 61800-5-1	CSA 22.2 No. 274
Degree of protection	EN	EN 60529	IP55
			IP66
	NEMA	NEMA 250	Type 12
			Type 4X Indoor & Outdoor
Environmental conditions	EN 60721-3-3	3M3	For mechanical, active substances
		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)	up to 3 hp 30 mA, above this 300 mA		
Max. cable length for EMC	Category C2	max. 65 ft	
	Category C3	max. 115 ft	
Switching frequencies	2, 4, 8, 12, 16 kHz The rated output currents apply at 113 °F and switching frequencies of 2 and 4 kHz, and at 104 °F and switching frequencies of 8, 12 and 16 kHz		
Ambient temperature operation	EN 60721-3-3	3K3 (-22 ... 131 °F)	
Output frequency	0 ... 599 Hz		
Overload capacity	200 % for 3 s; Heavy Duty: 150 % for 60 s; Light Duty: 120 % for 60 s		

	P_{rated} [hp]	U_{mains} [V]	I_{rated} [A]	Degree of protection	m [lb]	H x W x D [in]	Material number Basic variant		
3-phase mains connection 480 V – Heavy Duty with integrated RFI filter									
i550-P0.37/400-3	0.5	3/PE AC 340 V ... 528 V 45 ... 65 Hz	1.1	NEMA 4X (IP66)	4	7.48 x 5.51 x 4.60	16290085		
i550-P0.55/400-3	0.75		1.6	NEMA 4X (IP66)	4	7.48 x 5.51 x 4.60	16290086		
i550-P0.75/400-3	1		2.1	NEMA 4X (IP66)	4	7.48 x 5.51 x 4.60	16290087		
i550-P1.1/400-3	1.5		3	NEMA 4X (IP66)	6	8.07 x 5.51 x 5.51	16290088		
i550-P1.5/400-3	2		3.5	NEMA 4X (IP66)	6	8.07 x 5.51 x 5.51	16290089		
i550-P2.2/400-3	3		4.8	NEMA 4X (IP66)	6	8.07 x 5.51 x 5.51	16290090		
i550-P3.0/400-3	4		6.3	NEMA 4X (IP66)	10.8	9.84 x 7.08 x 6.61	16438411		
i550-P4.0/400-3	5		8.2	NEMA 4X (IP66)	10.8	9.84 x 7.08 x 6.61	16438436		
i550-P5.5/400-3	7.5		11	NEMA 4X (IP66)	10.8	9.84 x 7.08 x 6.61	16438445		
i550-P7.5/400-3	10		14	NEMA 4X (IP66)	11.2	11.41 x 7.08 x 6.81	16438378		
i550-P11/400-3	15		21	NEMA 4X (IP66)	11.2	11.41 x 7.08 x 6.81	16438381		
i550-P15/400-3	20		27	NEMA 4X (IP66)	22.5	15.94 x 9.06 x 7.36	16482637		
i550-P18/400-3	25		34	NEMA 4X (IP66)	22.5	15.94 x 9.06 x 7.36	16482719		
i550-P22/400-3	30		40.4	NEMA 4X (IP66)	22.5	15.94 x 9.06 x 7.36	16482780		
i550-P30/400-3	40		52	NEMA 12 (IP55)	101.4	30.64 x 11.74 x 11.24			
i550-P37/400-3	50		65	NEMA 12 (IP55)	101.4	30.64 x 11.74 x 11.24			
i550-P45/400-3	60		77	NEMA 12 (IP55)	101.4	30.64 x 11.74 x 11.24			
i550-P55/400-3	75		96	NEMA 12 (IP55)	116.8	30.64 x 11.74 x 14.86			
i550-P75/400-3	100	124	NEMA 12 (IP55)	116.8	30.64 x 11.74 x 14.86				
3-phase mains connection 600 V – Heavy Duty without integrated RFI filter									
i550-P0.75/600-3	1	3/PE AC 425 V ... 660 V 45 Hz ... 65 Hz	1.7	NEMA 4X (IP66)	4	7.48 x 5.51 x 4.60	16482580		
i550-P1.5/600-3	2		2.7	NEMA 4X (IP66)	6	8.07 x 5.51 x 5.51	16482585		
i550-P2.2/600-3	3		3.9	NEMA 4X (IP66)	6	8.07 x 5.51 x 5.51	16482593		
i550-P4.0/600-3	5		6.1	NEMA 4X (IP66)	10.8	9.84 x 7.09 x 6.61			
i550-P5.5/600-3	7.5		9	NEMA 4X (IP66)	10.8	9.84 x 7.09 x 6.61			
i550-P7.5/600-3	10		11	NEMA 4X (IP66)	11.2	11.42 x 7.09 x 6.81			
i550-P11/600-3	15		17	NEMA 4X (IP66)	11.2	11.42 x 7.09 x 6.81			
i550-P15/600-3	20		22	NEMA 4X (IP66)	22.5	15.94 x 9.06 x 7.36			
i550-P18/600-3	25		27	NEMA 4X (IP66)	22.5	15.94 x 9.06 x 7.36			
i550-P22/600-3	30		32	NEMA 4X (IP66)	22.5	15.94 x 9.06 x 7.36			

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 EPF. A number of variants are available for this purpose, which result from the subsequent extensions.

Diagnostics						
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 in the power range up to 30 hp with a downward enlarged housing (extension box) in NEMA 4X.

The width and depth remain identical, only the switching elements protrude approx. 1.18 in. The height increases as follows: at 0.5 ... 3 hp by 5.51 in, at 4 ... 7.5 hp by 5.75 in, at 11 ... 15 hp by 7.12 in and at 20 ... 30 hp by 8.14 mm.

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

- Additional space or holes for cable entries
- Mounting of control elements (see options)
- Emergency stop switch (must be realized by customers for normative reasons)
- Mounting of a terminal box 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



8400 motec frequency inverter

Connection to 460 V mains

Conformities	CE	2014/30/EU	2014/35/EU
	EAC	TP TC 020/2011	TR TC 004/2011
	RoHS	2011/65/EU	
Approvals	UL	UL 61800-5-1	CSA 22.2 No. 274
Degree of protection	EN	EN 60529	IP65: For motor mounting or wall mounting without switch
			IP64: For wall mounting with repair switch and protective function
			IP54: For wall mounting with repair switch/with repair switch and control elements
	NEMA	NEMA 250	Type 1 (only protection against accidental contact)
	Type 4x (only indoor), wall mounting 0.55 hp ... 4 hp 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)		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 > 9.8 ft or in case of motor mounting, 5 ... 11 hp, fch= 4 kHz	
Max. cable length for EMC	Category C2	< 65.6 ft in case of wall mounting with Lenze system cable, fch ≤ 4 kHz < 32.8 ft in case of wall mounting with Lenze system cable, fch ≤ 8 kHz	
Switching frequencies		4, 8, 16 kHz. The rated output currents listed below apply at 113 °F and a switching frequency of 4 kHz, and at 104 °F and switching frequencies of 8 and 16 kHz	
Ambient temperature operation	EN 60721-3-3	113 °F (derating of 2.5 %/°K above 113 °F)	
Output frequency		0 ... 599 Hz	
Overload capacity		200 % for 3 s; 150 % for 60 s	

Motor mounting

	P_{rated} [hp]	U_{mains} [V]	I_{rated} [A]	Degree of protection	Material number Basic variant		
3-phase mains connection 460 V with integrated RFI filter							
E84DGDVB37142PS	0.5	3/PE AC 340 V ... 528 V 45 ... 65 Hz	1.3	NEMA 4X	16201250		
E84DGDVB5142PS	0.75		1.8	NEMA 4X	16211540		
E84DGDVB75142PS	1		2.4	NEMA 4X	16208180		
E84DGDVB11242PS	1.5		3.2	NEMA 4X	16246606		
E84DGDVB15242PS	2		3.9	NEMA 4X	16203503		
E84DGDVB22242PS	3		5.6	NEMA 4X	16210191		
E84DGDVB30242PS	4		7.3	NEMA 4X	16207032		
E84DGDVB40242PS	5		9.5	NEMA 4X	16210473		
E84DGDVB55242PS	7.5		13	NEMA 4X	16207034		
E84DGDVB75242PS	11		16.5	NEMA 4X	16206267		

Wall mounting

	P_{rated} [hp]	U_{mains} [V]	I_{rated} [A]	Degree of protection	Material number Basic variant		
3-phase mains connection 460 V with integrated RFI filter							
E84DGDVB37142PS	0.5	3/PE AC 340 V ... 528 V 45 ... 65 Hz	1.3	NEMA 4X	16206516		
E84DGDVB5142PS	0.75		1.8	NEMA 4X	16216537		
E84DGDVB75142PS	1		2.4	NEMA 4X	16187340		
E84DGDVB11242PS	1.5		3.2	NEMA 4X	16226086		
E84DGDVB15242PS	2		3.9	NEMA 4X	16205484		
E84DGDVB22242PS	3		5.6	NEMA 4X	16207178		
E84DGDVB30242PS	4		7.3	NEMA 4X	16228213		
E84DGDVB40242PS	5		9.5	NEMA 4X	16210586		
E84DGDVB55242PS	7.5		13	NEMA 4X	16210587		
E84DGDVB75242PS	11		16.5	NEMA 4X	16207177		

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

Motor mounting

Mains connection						
Internal terminals		HAN Q4/2 - input		HAN Q4/2 - input/output		M15 - input
Basic variant		•		•		•

Number of I/Os		
Standard I/O	Basic I/O	Extended I/O
Basic variant	•	•

Connection of I/O modules			
Terminals	Standard I/O	Enhanced I/O	Enhanced2 I/O
Basic variant	•	•	•

Brake resistor		
Not integrated	Integrated, 90 ohms	Integrated, 220 ohms
Basic variant	•	•

External brake resistor connection	
Internal terminals	HAN Q5 connector
Basic variant	•

Fieldbuses						
No fieldbus	ASi	CANopen	EtherCAT	EtherNet/IP	PROFIBUS	PROFINET
Basic variant	•	•	•	•	•	•

Safety engineering		
No safety engineering		STO
Basic variant		•

Wall mounting

Mains connection				
Internal terminals	HAN Q4/2 - input	HAN Q4/2 - input/output	M15	QUICKON QPD
Basic variant	•	•	•	•

Motor connection	
Internal terminals	HAN Q8
Basic variant	•

Number of I/Os		
Standard I/O	Basic I/O	Extended I/O
Basic variant	•	•

Connection of I/O modules			
Terminals	Standard I/O	Enhanced I/O	Enhanced2 I/O
Basic variant	•	•	•

Brake resistor		
Not integrated	Integrated, 90 ohms	Integrated, 220 ohms
Basic variant	•	•

External brake resistor connection	
Internal terminals	HAN Q5 connector
Basic variant	•

Fieldbuses						
No fieldbus	ASi	CANopen	EtherCAT	EtherNet/IP	PROFIBUS	PROFINET
Basic variant	•	•	•	•	•	•

Safety engineering		
No safety engineering		STO
Basic variant		•

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

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.



Lenze

Mini-Lenzer i550 2

11855 Axim, GERMANY

i550

Inverter 230V AC

Type: 155A81550210000005

180 s

100

Lenze

Mini-Lenzer i550 2

11855 Axim, GERMANY

i550

Inverter 230V AC

Type: 155A81550210000005

180 s

100

24E

GND

DO1

DI1

DI2

DI3

DI4

DI5

24E

GND

DO1

DI1

DI2

DI3

DI4

DI5

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	USB
				
i550-Cxxx/120-1 i5x0-Cxxx/230-1	I5MADR0000000S 3 m cable	I5MADK0000000S	I5MADW0000000S	I5MADU0000000S 9.8 ft cable
i5x0-Cxxx/230-2 i550-Cxxx/230-3	I5MADR00000001S 5 m cable			EWL0085/S 16.4 ft cable
i5x0-Cxxx/400-3	I5MADR00000002S			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)
	
i550-Cxxx/120-1 i550-Cxxx/230-1 i550-Cxxx/230-2 i550-Cxxx/230-3 i550-Cxxx/400-3	I5MASAV0000000S

Accessories

Mains choke for i510 cabinet and i550 cabinet

i550 cabinet: generally prescribed from 30 hp (for Light Duty from 20 hp)

i510 protec and i550 protec: already integrated in the device if required (≥ 40 hp)

- 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 protection	Dimensions (H x W x D)
hp			in
Operation at 1 x 120 V			
0.33	ELN1-0500H009	IP00	2.95 x 2.60 x 3.23
0.5	ELN1-0500H009	IP00	2.95 x 2.60 x 3.23
1	ELN1-0250H018	IP00	3.78 x 3.78 x 3.54
1.5	ELN1-0250H018	IP00	3.78 x 3.78 x 3.54
Operation at 1 x 230 V			
0.33	ELN1-0900H005	IP00	2.95 x 2.60 x 3.23
0.5	ELN1-0900H005	IP00	2.95 x 2.60 x 3.23
0.75	ELN1-0500H009	IP00	2.95 x 2.60 x 3.23
1	ELN1-0500H009	IP00	2.95 x 2.60 x 3.23
1.5	ELN1-0250H018	IP00	3.78 x 3.78 x 3.54
2	ELN1-0250H018	IP00	3.78 x 3.78 x 3.54
3	ELN1-0250H018	IP00	3.78 x 3.78 x 3.54
Operation at 1 x 230 V or at 3 x 230 V			
0.33	EZAELN3002B153	IP00	2.20 x 3.03 x 3.94
0.5	EZAELN3004B742	IP00	2.36 x 3.74 x 4.53
0.75	EZAELN3004B742	IP00	2.36 x 3.74 x 4.53
1	EZAELN3006B492	IP00	2.72 x 3.74 x 4.72
1.5	EZAELN3006B492	IP00	2.72 x 3.74 x 4.72
2	EZAELN3008B372	IP00	3.35 x 4.72 x 5.51
3	EZAELN3010B292	IP00	3.35 x 4.72 x 5.51
Operation at 3 x 230 V			
5	EZAELN3016B182	IP00	3.74 x 4.72 x 5.51
7.5	EZAELN3025B122	IP00	4.33 x 6.10 x 6.69

Rated power	Mains choke	Degree of protection	Dimensions (H x W x D)
hp			in
Operation at 3 x 480 V			
0.5	EZAELN3002B203	IP00	2.20 x 3.03 x 3.94
0.75	EZAELN3002B153	IP00	2.20 x 3.03 x 3.94
1	EZAELN3004B742	IP00	2.36 x 3.74 x 4.53
1.5	EZAELN3004B742	IP00	2.36 x 3.74 x 4.53
2	EZAELN3004B742	IP00	2.36 x 3.74 x 4.53
3	EZAELN3006B492	IP00	2.72 x 3.74 x 4.72
4	EZAELN3008B372	IP00	3.35 x 4.72 x 5.51
5	EZAELN3008B372	IP00	3.35 x 4.72 x 5.51
7.5	EZAELN3016B182	IP00	3.74 x 4.72 x 5.51
10	EZAELN3016B182	IP00	3.74 x 4.72 x 5.51
15	EZAELN3020B152	IP00	3.74 x 6.10 x 6.49
20	EZAELN3025B122	IP00	4.33 x 6.10 x 6.69
25	EZAELN3030B981	IP00	4.33 x 6.10 x 6.69
30	EZAELN3040B741	IP00	4.41 x 7.28 x 7.87
40	EZAELN3050B591	IP00	4.92 x 8.26 x 9.45
50	EZAELN3063B471	IP00	4.80 x 7.28 x 7.87
60	EZAELN3080B371	IP00	4.92 x 8.26 x 9.45
75	EZAELN3090B331	IP00	4.53 x 10.51 x 8.07
100	EZAELN3125B241	IP00	6.45 x 12.44 x 9.25
125	EZAELN3160B191	IP00	5.86 x 11.45 x 8.46
150	EZAELN3180B171	IP00	6.45 x 12.44 x 9.25
175	EZAELN3200B151	IP00	5.67 x 13.85 x 10.43

Short Distance filter for i510 cabinet and i550 cabinet

Filter type: RFI filter

- C1 to 82 ft
- C2 to 164 ft
- Reduced leakage current, operation on 30-mA residual current device (RCD)

Long Distance filter for i510 cabinet and i550 cabinet

Filter type up to 20 hp: RFI filter

Filter type from 30 hp: Mains filter (combination of RFI filter and mains choke)

- C1 to 164 ft
- C2 to 328 ft
- Operation on 300-mA residual current device (RCD)

Short Distance			
Rated power	RFI filter	Degree of protection	Dimensions (H x W x D)
hp			in
Operation at 1 x 230 V			
0.33	IOFAE175B100S0000S	IP20	10.86 x 2.36 x 1.97
0.5	IOFAE175B100S0000S	IP20	10.86 x 2.36 x 1.97
0.75	IOFAE175B100S0000S	IP20	10.86 x 2.36 x 1.97
1	IOFAE175B100S0000S	IP20	10.86 x 2.36 x 1.97
1.5	IOFAE222B100S0000S	IP20	13.62 x 2.36 x 1.97
2	IOFAE222B100S0000S	IP20	13.62 x 2.36 x 1.97
3	IOFAE222B100S0000S	IP20	13.62 x 2.36 x 1.97
Operation at 3 x 480 V			
0.5	IOFAE175F100S0000S	IP20	10.86 x 2.36 x 1.97
0.75	IOFAE175F100S0000S	IP20	10.86 x 2.36 x 1.97
1	IOFAE175F100S0000S	IP20	10.86 x 2.36 x 1.97
1.5	IOFAE222F100S0000S	IP20	13.62 x 2.36 x 1.97
2	IOFAE222F100S0000S	IP20	13.62 x 2.36 x 1.97
3	IOFAE222F100S0000S	IP20	13.62 x 2.36 x 1.97
4	IOFAE255F100S0001S	IP20	13.62 x 3.54 x 2.36
5	IOFAE255F100S0001S	IP20	13.62 x 3.54 x 2.36
7.5	IOFAE255F100S0001S	IP20	13.62 x 3.54 x 2.36
11	IOFAE311F100S0000S	IP20	14.60 x 4.72 x 2.36
15	IOFAE311F100S0000S	IP20	14.60 x 4.72 x 2.36
20	-		-
25	-		-
30	-		-
40	-		-
50	-		-
60	-		-
75	-		-
100	-		-
125	-		-
150	-		-
175	-		-

Long Distance			
Rated power	RFI filter	Degree of protection	Dimensions (H x W x D)
hp			in
Operation at 1 x 230 V			
0.33	IOFAE175B100D0000S	IP20	10.86 x 2.36 x 1.97
0.5	IOFAE175B100D0000S	IP20	10.86 x 2.36 x 1.97
0.75	IOFAE175B100D0000S	IP20	10.86 x 2.36 x 1.97
1	IOFAE175B100D0000S	IP20	10.86 x 2.36 x 1.97
1.5	IOFAE222B100D0000S	IP20	13.62 x 2.36 x 1.97
2	IOFAE222B100D0000S	IP20	13.62 x 2.36 x 1.97
3	IOFAE222B100D0000S	IP20	13.62 x 2.36 x 1.97
Operation at 3 x 480 V			
0.5	IOFAE175F100D0000S	IP20	10.86 x 2.36 x 1.97
0.75	IOFAE175F100D0000S	IP20	10.86 x 2.36 x 1.97
1	IOFAE175F100D0000S	IP20	10.86 x 2.36 x 1.97
1.5	IOFAE222F100D0000S	IP20	13.62 x 2.36 x 1.97
2	IOFAE222F100D0000S	IP20	13.62 x 2.36 x 1.97
3	IOFAE222F100D0000S	IP20	13.62 x 2.36 x 1.97
4	IOFAE240F100D0000S	IP20	13.62 x 2.36 x 1.97
5 (Heavy Duty)	IOFAE240F100D0000S	IP20	13.62 x 2.36 x 1.97
5 (Light Duty)	IOFAE255F100D0001S	IP20	13.62 x 3.54 x 2.36
7.5	IOFAE255F100D0001S	IP20	13.62 x 3.54 x 2.36
11	IOFAE311F100D0000S	IP20	14.60 x 4.72 x 2.36
15	IOFAE311F100D0000S	IP20	14.60 x 4.72 x 2.36
20	IOFAE318F100D0000S	IP20	17.16 x 8.07 x 3x54
25	IOFAE318F100D0000S	IP20	17.16 x 8.07 x 3x54
30 (Heavy Duty)	IOFAE322F100D0000S	IP20	17.16 x 8.07 x 3x54
30 (Light Duty)	IOFAE330F100D0000S	IP20	23.22 x 9.84 x 4.13
40	IOFAE330F100D0000S	IP20	23.22 x 9.84 x 4.13
50	IOFAE337F100D0000S	IP20	23.22 x 9.84 x 4.13
60	IOFAE345F100D0001S	IP20	23.22 x 9.84 x 4.13
75	IOFAE355F100D0001S	IP20	27.55 x 9.84 x 4.13
100	IOFAE375F100D0001S	IP20	27.55 x 9.84 x 4.13
125	IOFAE411F100D0001S	IP20	33.65 x 9.84 x 5.12
150	IOFAE411F100D0001S	IP20	33.65 x 9.84 x 5.12
175	IOFAE411F100D0001S	IP20	33.65 x 9.84 x 5.12

Low Leakage filter for i510 cabinet and i550 cabinet

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

- C1 to 16.4 ft
- Reduced leakage current, operation on 10-mA residual current device (RCD)

Low Leakage			
Rated power	RFI filter	Degree of protection	Dimensions (H x W x D)
hp			in
0.33	IOFAE137B100L0000S	IP20	8.89 x 2.36 x 1.97
0.55			
0.75	IOFAE175B100L0000S	IP20	10.86 x 2.36 x 1.97
1			
1.5	IOFAE222B100L0000S	IP20	13.62 x 2.36 x 1.97
2			
3			

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)
hp		W		in
Operation at 1 x 120 V				
0.33	ERBM180R050W	50	IP54	6.89 x 0.83 x 1.57
0.5	ERBM180R050W	50	IP54	6.89 x 0.83 x 1.57
1	ERBP047R200W	200	IP21	12.59 x 1.61 x 4.80
1.5	ERBP047R200W	200	IP21	12.59 x 1.61 x 4.80
Operation at 1 x 230 V				
0.33	ERBM180R050W	50	IP54	6.89 x 0.83 x 1.57
0.5	ERBM180R050W	50	IP54	6.89 x 0.83 x 1.57
0.75	ERBM100R100W	100	IP54	9.45 x 3.15 x 3.74
1	ERBM100R100W	100	IP54	9.45 x 3.15 x 3.74
1.5	ERBP033R200W	200	IP21	9.45 x 1.61 x 4.80
2	ERBP033R200W	200	IP21	9.45 x 1.61 x 4.80
3	ERBP033R200W	200	IP21	9.45 x 1.61 x 4.80

Rated power	Brake resistor	Rated power	Degree of protection	Dimensions (H x W x D)
hp		W		in
Operation at 1 x 230 V or at 3 x 230 V				
0.33	ERBM180R050W	50	IP54	6.89 x 0.83 x 1.57
0.5	ERBM180R050W	50	IP54	6.89 x 0.83 x 1.57
0.75	ERBM100R100W	100	IP54	9.45 x 3.15 x 3.74
1	ERBM100R100W	100	IP54	9.45 x 3.15 x 3.74
1.5	ERBP033R200W	200	IP21	9.45 x 1.61 x 4.80
2	ERBP033R200W	200	IP21	9.45 x 1.61 x 4.80
3	ERBP033R200W	200	IP21	9.45 x 1.61 x 4.80
Operation at 3 x 230 V				
5	ERBS015R800W	800	IP66	27.94 x 4.33 x 4.13
7.5	ERBS015R800W	800	IP66	27.94 x 4.33 x 4.13
Operation at 3 x 480 V				
0.5	ERBM390R100W	100	IP54	9.25 x 0.83 x 1.57
0.75	ERBM390R100W	100	IP54	9.25 x 0.83 x 1.57
1	ERBM390R100W	100	IP54	9.25 x 0.83 x 1.57
1.5	ERBP180R200W	200	IP21	9.45 x 1.61 x 4.80
2	ERBP180R200W	200	IP21	9.45 x 1.61 x 4.80
3	ERBP180R200W	200	IP21	9.45 x 1.61 x 4.80
4	ERBP082R200W	200	IP21	12.59 x 1.61 x 4.80
5	ERBP047R200W	200	IP21	12.59 x 1.61 x 4.80
7.5	ERBP047R200W	200	IP21	12.59 x 1.61 x 4.80
1	ERBP027R200W	200	IP21	12.59 x 1.61 x 4.80
15	ERBP027R200W	200	IP21	12.59 x 1.61 x 4.80
20	ERBS018R800W	800	IP66	27.94 x 4.33 x 4.13
25	ERBS015R800W	800	IP66	27.94 x 4.33 x 4.13
30	ERBS015R800W	800	IP66	27.94 x 4.33 x 4.13
40	ERBG075D01K9	1900	IP20	19.13 x 9.29 x 11.89
50	ERBG075D01K9	1900	IP20	19.13 x 9.29 x 11.89
60	ERBG075D01K9	1900	IP20	19.13 x 9.29 x 11.89
75	ERBG005R02K6	2600	IP20	19.13 x x 11.89 x 12.83
90	ERBG005R02K6	2600	IP20	19.13 x x 11.89 x 12.83
125	ERBG028D04K1	4100	IP20	19.13 x x 16.77 x 12.83
150	ERBG028D04K1	4100	IP20	19.13 x x 16.77 x 12.83
175	ERBG028D04K1	4100	IP20	19.13 x x 16.77 x 12.83

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)
hp		W		in
Operation at 1 x 120 V				
0.5	ERBS180R350W	350	IP66	15.03 x 4.88 x 4.80
1	ERBS100R625W	625	IP66	22.27 x 4.88 x 4.80
1.5	ERBS100R625W	625	IP66	22.27 x 4.88 x 4.80
Operation at 1 x 230 V or at 3 x 230 V				
0.5	ERBS100R625WNQN000	625	IP66	22.27 x 4.88 x 4.80
0.75	ERBS100R625WNQN000	625	IP66	22.27 x 4.88 x 4.80
1	ERBS100R625WNQN000	625	IP66	22.27 x 4.88 x 4.80
1.5	ERBS039R01K6NQN000	1600	IP66	29.44 x 7.87 x 4.80
2	ERBS039R01K6NQN000	1600	IP66	29.44 x 7.87 x 4.80
3	ERBS039R01K6NQN000	1600	IP66	29.44 x 7.87 x 4.80
4	ERBS015R800W	800	IP66	27.95 x 4.49 x 4.13
5	ERBS015R800W	800	IP66	27.95 x 4.49 x 4.13
7.5	ERBS015R800W	800	IP66	27.95 x 4.49 x 4.13
11	ERBS015R800W	800	IP66	27.95 x 4.49 x 4.13
15	ERBS015R800W	800	IP66	27.95 x 4.49 x 4.13
20	ERBS015R800W	800	IP66	27.95 x 4.49 x 4.13
25	ERBS012R02K0WQN000	2000	IP66	27.95 x 4.49 x 4.13
Operation at 3 x 480 V				
0.5	ERBS470R150WNQN000	150	IP66	8.74 x 4.88 x 4.80
0.75	ERBS470R150WNQN000	150	IP66	8.74 x 4.88 x 4.80
1	ERBS470R150WNQN000	150	IP66	8.74 x 4.88 x 4.80
1.5	ERBS180R350WNQN000	350	IP66	15.03 x 4.88 x 4.80
2	ERBS180R350WNQN000	350	IP66	15.03 x 4.88 x 4.80
3	ERBS180R350WNQN000	350	IP66	15.03 x 4.88 x 4.80
4	ERBS082R780WNQN000	780	IP66	26.22 x 4.88 x 4.80
5	ERBS047R400W	400	IP66	15.75 x 4.49 x 4.13
7.5	ERBS047R400W	400	IP66	15.75 x 4.49 x 4.13
11	ERBS027R600W	600	IP66	21.65 x 4.49 x 4.13
15	ERBS027R600W	600	IP66	21.65 x 4.49 x 4.13
20	ERBS015R800W	800	IP66	27.95 x 4.49 x 4.13
25	ERBS012R02K0WQN000	2000	IP66	27.95 x 4.49 x 4.13
30	ERBS012R02K0WQN000	2000	IP66	27.95 x 4.49 x 4.13
Operation at 3 x 600 V				
1	ERBS470R150WNQN000	150	IP66	8.74 x 4.88 x 4.8
2	ERBS180R350WNQN000	350	IP66	15.03 x 4.88 x 4.80
3	ERBS180R350WNQN000	350	IP66	15.03 x 4.88 x 4.80
5	ERBS047R400W	400	IP66	15.75 x 4.49 x 4.13
7.5	ERBS047R400W	400	IP66	15.75 x 4.49 x 4.13
11	ERBS027R600W	600	IP66	21.65 x 4.49 x 4.13
15	ERBS027R600W	600	IP66	21.65 x 4.49 x 4.13
20	ERBS018R800W	800	IP66	27.95 x 4.49 x 4.13
25	ERBS015R800W	800	IP66	27.95 x 4.49 x 4.13
30	ERBS015R800W	800	IP66	27.95 x 4.49 x 4.13

Motor shield plate for i510 cabinet and i550 cabinet

Rated power	Shield mounting	Packaging unit	Shield mounting	Packaging unit
hp	Multiple		Simple	
Operation at 1 x 120 V				
0.33 ... 1.5	EZAMBHXM018/M	5	EZAMBHXM018/S	1
Operation at 1 x 230 V				
0.33 ... 3	EZAMBHXM018/M	5	EZAMBHXM018/S	1
Operation at 3 x 230 V				
5 ... 7.5	EZAMBHXM015/M	5	EZAMBHXM015/S	1
Operation at 3 x 480 V				
0.5 ... 5	EZAMBHXM018/M	5	EZAMBHXM018/S	1
7.5	EZAMBHXM015/M	5	EZAMBHXM015/S	1
11 ... 15	EZAMBHXM016/M	5	EZAMBHXM016/S	1
20 ... 30	EZAMBHXM004/M	10	-	-
40 ... 100	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 inverter provides openings for connections to the mains, the motor and the control connections. To easily implement these connections in NEMA 4X, various sets are available.

	Set	Contents	Packaging unit
EZAMBHXX022	i550 protec cable gland 0.5 ... 3 hp	3 x M20 und 2 x M12 cable glands	1
EZAMBHXX023	i550 protec cable gland 4 ... 15 hp	1 x M32, 2x M20 and 2 x M12 cable glands	1
EZAMBHXX024	i550 protec cable gland 20 ... 30 hp	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 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 connection set	QUICKON panel feed-through QDP with connection cable	1
EZAMBHXX028	Switch/potentiometer set	3-point switch 1x 10 kΩ potentiometer for use in extension box	1
EZAMBHXX029	Terminal set	0.5 ... 10 mm ² (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

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

