

Frequency inverters



0.25 ... 132 kW



Lenze inverters – 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)
- Wood working
- Car washes
- And many more

Features

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

The benefits for you

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

Features at a glance

Compact design



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

The i510 cabinet and i550 cabinet frequency inverters impress due to a space-saving design with a width of 60 mm (up to 4 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.

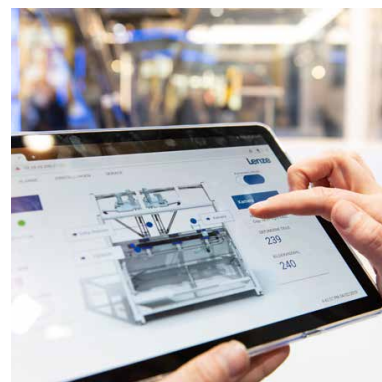
Flexibility



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

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

User-friendliness



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

Centralized/ decentralized



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

In many applications, a mixture of centralized and decentralized drive technology is advisable. Fortunately, all Lenze frequency inverters have a similar drive behavior and can be commissioned with the same engineering tools.

Innovative



Innovative functions for a safe operation. Two examples:

Easy engineering and reduction of system costs through integration of limited IO-Link master functionality in the i550/i650 motec.

Regenerative energy feedback by the i550/i650 motec in case of dynamic braking reduces energy consumption. This simplifies engineering and saves the cost of a brake resistor.

Energy-efficient



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

Scaled portfolio for machines

Competitiveness in mechanical engineering is becoming increasingly challenging due to rising requirements in terms of energy efficiency and machine intelligence, along with a shortage of skilled personnel and cost pressure.

The frequency inverters are facing up to these challenges and are already equipped for the future.

The EASY Engineering Tools simplify the engineering of the machine and support the selection of the most suitable controllers, frequency inverters and motors - energy-efficiently and sustainably.

You can easily call up a lot of Info online when selecting a product:

- Use the EASY Product Finder to configure your required version of the product in next to no time (simply click on the  icon).
- For further technical details such as data sheets, CAD data or EPLAN data, please contact our support team simply click on the  icon).

	i510 cabinet	i550 cabinet	i550 protec	i550 motec	i650 motec
					
Design/mounting	Control cabinet	Control cabinet	Wall	Wall or motor	Wall or motor
Degree of protection	IP20	IP20	IP55/66	IP66	IP66

Functions

	i510 cabinet	i550 cabinet	i550 protec	i550 motec	i650 motec
Functional safety	-	Basic	Basic	Basic	Extended
System functions	Smart	Middle	Middle	Middle	High
Motor controls	Standard	Standard	Standard	Standard	Standard

i510 cabinet

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

The requirements of the Ecodesign Directive, standard EN IEC 61800-9-2, are met.

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

Mains connection/power range

1 AC 230/240 V	0.25 ... 2.2 kW
3 AC 230/240 V	0.25 ... 5.5 kW
3 AC 400 V	0.37 ... 15 kW

Highlights

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



i550 cabinet

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

The requirements of the Ecodesign Directive, standard EN IEC 61800-9-2, are met.

Application areas: Conveyor drives, traveling drives, winding drives, hoist drives, extruders, packaging machines, pumps, fans, ...

Mains connection/power range

1 AC 120 V	0.25 ... 1.1 kW
1 AC 230/240 V	0.25 ... 2.2 kW
3 AC 230/240 V	0.25 ... 5.5 kW
3 AC 400 V	0.37 ... 132 kW
3 AC 480 V	0.37 ... 132 kW

Highlights

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



i550 protec

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

The requirements of the Ecodesign Directive, standard EN IEC 61800-9-2, are met.

Application areas: Conveyor drives, traveling drives, winding drives, hoist drives, extruders, packaging machines, pumps, fans, ...

Mains connection/power range

1 AC 120 V	0.37 ... 1.1 kW
1 AC 230/240 V	0.37 ... 2.2 kW
3 AC 230/240 V	0.37 ... 45 kW
3 AC 400 V	0.37 ... 75 kW
3 AC 480 V	0.37 ... 75 kW
3 AC 600 V	0.37 ... 22 kW

Highlights

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



i550 motec

The i550 motec frequency inverter for wall mounting and motor mounting in protection class IP66 is the optimal decentralized drive solution. The inverter can be extended for universal use with an extension box with disconnect switch with/without Type E combination motor controller and operating elements.

Fast mounting and easy commissioning thanks to user-friendly tools as well as connections for commercially available connectors are the focus of this inverter. Parameters, drive behavior and usability correspond to our proven frequency inverters. Rounded off by high energy efficiency, we thus offer a modern and sustainable drive solution.

The requirements of the Ecodesign Directive, standard EN IEC 61800-9-2, are met.

Application areas: Conveyor drives, traveling drives, winding drives, hoist drives, extruders, packaging machines, pumps, fans, ...

Mains connection/power range

3 AC 230/240 V	0.37 ... 22 kW
3 AC 400 V	0.37 ... 45 kW

Highlights

- Compact solution for decentralized drive technology, wall-mounted or motor-mounted with high IP66 protection (UL Type 4X indoor)
- Wall-mounted extendable: Extension box with disconnect switch with/without Type E combination motor controller and operating elements
- Fast mounting due to pluggable, standardized connections (plug & play)
- Four IO-Link ports with limited IO-Link master functionality for easy data exchange between IO-Link sensors and actuators
- Integrated regenerative module for very high energy efficiency - a brake resistor is no longer required



i650 motec

The i650 motec frequency inverter for wall and motor mounting stands out from the i550 motec due to the "Extended Safety" option (safety technology with various functions).

The requirements of the Ecodesign Directive, standard EN IEC 61800-9-2, are met.

Application areas: Conveyor drives, traveling drives, winding drives, hoist drives, extruders, packaging machines, pumps, fans, ...

Mains connection/power range

3 AC 230/240 V	0.37 ... 22 kW
3 AC 400 V	0.37 ... 45 kW

Highlights

- Compact solution for decentralized drive technology, wall-mounted or motor-mounted with high IP66 protection (UL Type 4X indoor)
- Wall-mounted extendable: Extension box with disconnect switch with/without Type E combination motor controller and operating elements
- Fast mounting due to pluggable, standardized connections (plug & play)
- Four IO-Link ports with limited IO-Link master functionality for easy data exchange between IO-Link sensors and actuators
- Integrated regenerative module for very high energy efficiency - a brake resistor is no longer required
- Extended range of functions: Extended Safety



Product overview

	i510 cabinet	i550 cabinet	i550 protec	i550 motec	i650 motec
					
Design/mounting	Control cabinet	Control cabinet	Wall	Wall or motor	Wall or motor
Degree of protection	IP20	IP20	IP55/66	IP66	IP66

Mains connection/power range

	i510 cabinet	i550 cabinet	i550 protec	i550 motec	i650 motec
1 AC 230/240 V	0.25 ... 2.2 kW	0.25 ... 2.2 kW	0.37 ... 2.2 kW	-	-
3 AC 230/240 V	0.25 ... 5.5 kW	0.25 ... 5.5 kW	0.37 ... 45 kW	0.37 ... 22 kW	0.37 ... 22 kW
3 AC 400 V	0.37 ... 15 kW	0.37 ... 132 kW	0.37 ... 75 kW	0.37 ... 45 kW	0.37 ... 45 kW

Market approvals

	i510 cabinet	i550 cabinet	i550 protec	i550 motec	i650 motec
CE	✓	✓	✓	✓	✓
UKCA	✓	✓	✓	✓	✓
cULus	✓	✓	✓	✓	✓
RoHS	✓	✓	✓	✓	✓
Energy efficiency	Class IE2	Class IE2	Class IE2	Class IE2	Class IE2

Ambient conditions

	i510 cabinet	i550 cabinet	i550 protec	i550 motec	i650 motec
Degree of pollution	2	2	2	2	2
Vibration resistance during operation	Up to 1 g	Up to 1 g	Up to 1 g	Up to 1 g	Up to 1 g
Insulation resistance	Category III	Category III	Category III	Category III	Category III
Operation (EN 60721-3-3)	3K3 (-10 ... +60 °C)	3K3 (-10 ... +60 °C)	3K3 (-30 ... +60 °C)	3K3 (-30 ... +60 °C)	3K3 (-30 ... +60 °C)
Derating	2.5 % / °C above 45 °C	2.5 % / °C above 45 °C	2.5 % / °C above 45 °C	2.5 % / °C above 40 °C	2.5 % / °C above 40 °C
Storage (EN 60721-3-1)	1K3 (-25 ... +60 °C)	1K3 (-25 ... +60 °C)	1K3 (-30 ... +60 °C)	1K3 (-30 ... +60 °C)	1K3 (-30 ... +60 °C)
Transport (EN 60721-3-2)	2K3 (-25 ... +70 °C)	2K3 (-25 ... +70 °C)	2K3 (-30 ... +70 °C)	2K3 (-30 ... +70 °C)	2K3 (-30 ... +70 °C)

Control connections

	i510 cabinet	i550 cabinet	i550 protec	i550 motec	i650 motec
Digital inputs	5	5 or 7	5	4/3 or 8/4	8/4
Digital outputs	1	1 or 2	1	0/1 or 0/4	0/4
Analog inputs	2	2	2	-	-
Analog outputs	1	1	1	-	-
Relay	1	1	1	-	-

Protective measures

	i510 cabinet	i550 cabinet	i550 protec	i550 motec	i650 motec
Earth-fault protected	✓	✓	✓	✓	✓
Short-circuit-proof	✓	✓	✓	✓	✓
Overvoltage-proof	✓	✓	✓	✓	✓
Motor stalling protection	✓	✓	✓	✓	✓
Motor overtemperature	I ² xT	With PTC, I ² xT	With PTC, I ² xT	With PTC, I ² xT	With PTC, I ² xT

Operation on public supply systems

	i510 cabinet	i550 cabinet	i550 protec	i550 motec	i650 motec
Devices below 1 kW (EN IEC 61000-3-2)	With mains choke	With mains choke	With mains choke	✓	✓
Devices above 1 kW up to 16 A (EN IEC 61000-3-2)	✓	✓	✓	✓	✓
Devices above 16 A up to 75 A (EN IEC 61000-3-12)	With mains choke	With mains choke	From 30 kW Integrated mains choke	Rsce ≥ 250	Rsce ≥ 250

Motor cable lengths

	i510 cabinet	i550 cabinet	i550 protec	i550 motec	i650 motec
EMC category C1	-	Max. 3 m up to 2.2 kW	Max. 3 m up to 2.2 kW	-	-
EMC category C2	Max. 15 m up to 0.37 kW Max. 20 m up to 11 kW	Max. 15 m up to 0.37 kW Max. 20 m up to 11 kW	Max. 20 m up to 11 kW	Max. 10 m	Max. 10 m

Fusing

	i510 cabinet	i550 cabinet	i550 protec	i550 motec	i650 motec
Fuses, characteristic	gG/gl or gRL	gG/gl or gRL	gG/gl or gRL	gG/gl or gRL up to 11 kW gR	gG/gl or gRL up to 11 kW gR
Circuit breakers, characteristic	B or C	B or C	B	B	B
Residual current devices (RCD), characteristic	≥ 30 mA up to 11 kW Type B or F	≥ 30 mA up to 11 kW Type B or F	≥ 30 mA up to 11 kW Type B	≥ 30 mA Type B	≥ 30 mA Type B

Communication

	i510 cabinet	i550 cabinet	i550 protec	i550 motec	i650 motec
CANopen	✓	✓	✓	-	-
EtherCAT	-	✓	✓	✓	✓
EtherNet/IP	-	✓	✓	✓	✓
IO-Link	-	✓ (Device)	✓ (Device)	✓ (Master)	✓ (Master)
Modbus RTU	✓	✓	✓	-	-
Modbus TCP	-	✓	✓	✓	✓
POWERLINK	-	✓	-	-	-
PROFIBUS	-	✓	-	-	-
PROFINET	-	✓	✓	✓	✓

Feedback

	i510 cabinet	i550 cabinet	i550 protec	i550 motec	i650 motec
HIPERFACE DSL® absolute value encoder (One Cable Technology OCT)	-	-	-	-	-
Resolver	-	-	-	-	-
HIPERFACE® SinCos absolute value encoder	-	-	-	-	-
Endat (V2.1&V2.2) SinCos absolute value encoder	-	-	-	-	-
SSI absolute value encoder	-	-	-	-	-
SSI SinCos absolute value encoder	-	-	-	-	-
TTL incremental encoder	-	-	-	-	-
HTL incremental encoder	-	✓	✓	✓	✓

Motor controls

	i510 cabinet	i550 cabinet	i550 protec	i550 motec	i650 motec
V/f characteristic control	✓	✓	✓	✓	✓
Vector control for asynchronous motors	✓	✓	✓	✓	✓
Vector control for synchronous motors	✓	✓	✓	-	-
Vector control for synchronous motors with frequency support at low speeds	✓	✓	✓	✓	✓
V/f characteristic control with feedback	-	✓	✓	✓	✓
Vector control for asynchronous motors with feedback	-	✓	✓	✓	✓

Additional functions for the motor controls

	i510 cabinet	i550 cabinet	i550 protec	i550 motec	i650 motec
Boost	✓	✓	✓	✓	✓
Slip compensation	✓	✓	✓	✓	✓
Oscillation damping	✓	✓	✓	✓	✓
Torque control	✓	✓	✓	✓	✓
Skip frequencies	✓	✓	✓	✓	✓
Motor stalling protection	✓	✓	✓	✓	✓
Motor monitoring	✓	✓	✓	✓	✓

Component control

	i510 cabinet	i550 cabinet	i550 protec	i550 motec	i650 motec
Fixed frequencies (jog values)	✓	✓	✓	✓	✓
Motor potentiometer	✓	✓	✓	✓	✓
Sequence control	✓	✓	✓	-	-
PID controller	✓	✓	✓	✓	✓
Position counter	✓	✓	✓	✓	✓
Parameter set changeover	✓	✓	✓	✓	✓

Energy efficiency

	i510 cabinet	i550 cabinet	i550 protec	i550 motec	i650 motec
Energy compensation	-	✓	✓	-	-
Energy-saving function "VFC eco"	✓	✓	✓	✓	✓
Regenerative feedback mode	-	-	-	✓	✓

Additional motor functions

	i510 cabinet	i550 cabinet	i550 protec	i550 motec	i650 motec
Flying restart circuit	✓	✓	✓	✓	✓
DC-injection brake	✓	✓	✓	✓	✓
Holding brake control	✓	✓	✓	✓	✓
Switching frequency setting	✓	✓	✓	✓	✓

System protection

	i510 cabinet	i550 cabinet	i550 protec	i550 motec	i650 motec
Access protection	✓	✓	✓	✓	✓
Temperature monitoring	✓	✓	✓	✓	✓
Mains failure control	✓	✓	✓	-	-
Operation on a UPS	✓	✓	✓	-	-

Safe stop functions

	i510 cabinet	i550 cabinet	i550 protec	i550 motec	i650 motec
Safe torque off (STO)	-	✓	✓	✓	✓
Safe stop 1 (SS1)	-	-	-	-	✓
Safe stop emergency (SSE)	-	-	-	-	-
Safe stop 2 (SS2)	-	-	-	-	-
Safe operational stop (SOS)	-	-	-	-	-
Safe brake control (SBC)	-	-	-	-	-
Cascading STO (CAS)	-	-	-	-	-

Safe monitoring functions

	i510 cabinet	i550 cabinet	i550 protec	i550 motec	i650 motec
Safe maximum speed (SMS)	-	-	-	-	-
Safely limited speed (SLS)	-	-	-	-	-
Safe speed monitoring (SSM)	-	-	-	-	-
Safely limited increment (SLI)	-	-	-	-	-
Safe direction (SDI)	-	-	-	-	-
Safely limited position (SLP)	-	-	-	-	-
Position dependent safe speed (PDSS)	-	-	-	-	-
Safe cam (SCA)	-	-	-	-	-

Auxiliary and maintenance functions for functional safety

	i510 cabinet	i550 cabinet	i550 protec	i550 motec	i650 motec
Safe Homing (SHom))	-	-	-	-	-
Operation mode selector (OMS)	-	-	-	-	-
Repair mode selector (RMS)	-	-	-	-	-
Enable switch (ES))	-	-	-	-	-
Safe Muting (MUT)	-	-	-	-	✓

Safety bus

	i510 cabinet	i550 cabinet	i550 protec	i550 motec	i650 motec
FSoE	-	-	-	-	-
CIP Safety	-	-	-	-	✓
PROFIsafe	-	-	-	-	-

Product selection

i510 cabinet



1-phase mains connection 230/240 V with integrated RFI filter

	P_{rated} [kW]	V_{mains} [V]	I_{rated} [A]	Degree of protection	m [kg]	H x W x D [mm]	I/Os	Info	ID
i510-C0.25/230-1	0.25	1 AC 230/240 V	1.7	IP20	0.75	155 x 60 x 130	Basic I/O	i shopping cart	16128696
i510-C0.37/230-1	0.37	1 AC 230/240 V	2.4	IP20	0.75	155 x 60 x 130	Basic I/O	i shopping cart	16128670
i510-C0.55/230-1	0.55	1 AC 230/240 V	3.2	IP20	0.95	180 x 60 x 130	Basic I/O	i shopping cart	16128697
i510-C0.75/230-1	0.75	1 AC 230/240 V	4.2	IP20	0.95	180 x 60 x 130	Basic I/O	i shopping cart	16128756
i510-C1.1/230-1	1.1	1 AC 230/240 V	6	IP20	1.35	250 x 60 x 130	Basic I/O	i shopping cart	16128698
i510-C1.5/230-1	1.5	1 AC 230/240 V	7	IP20	1.35	250 x 60 x 130	Basic I/O	i shopping cart	16128699
i510-C2.2/230-1	2.2	1 AC 230/240 V	9.6	IP20	1.35	250 x 60 x 130	Basic I/O	i shopping cart	16128700

1-phase mains connection 230/240 V without integrated RFI filter

	P_{rated} [kW]	V_{mains} [V]	I_{rated} [A]	Degree of protection	m [kg]	H x W x D [mm]	I/Os	Info	ID
i510-C0.25/230-2	0.25	1/3 AC 230/240 V	1.7	IP20	0.75	155 x 60 x 130	Basic I/O	i shopping cart	16130190
i510-C0.37/230-2	0.37	1/3 AC 230/240 V	2.4	IP20	0.75	155 x 60 x 130	Basic I/O	i shopping cart	16129279
i510-C0.55/230-2	0.55	1/3 AC 230/240 V	3.2	IP20	0.95	180 x 60 x 130	Basic I/O	i shopping cart	16132576
i510-C0.75/230-2	0.75	1/3 AC 230/240 V	4.2	IP20	0.95	180 x 60 x 130	Basic I/O	i shopping cart	16130279
i510-C1.1/230-2	1.1	1/3 AC 230/240 V	6	IP20	1.35	250 x 60 x 130	Basic I/O	i shopping cart	16142329
i510-C1.5/230-2	1.5	1/3 AC 230/240 V	7	IP20	1.35	250 x 60 x 130	Basic I/O	i shopping cart	16128935
i510-C2.2/230-2	2.2	1/3 AC 230/240 V	9.6	IP20	1.35	250 x 60 x 130	Basic I/O	i shopping cart	16130739

3-phase mains connection 230/240 V without integrated RFI filter

	P_{rated} [kW]	V_{mains} [V]	I_{rated} [A]	Degree of protection	m [kg]	H x W x D [mm]	I/Os	Info	ID
i510-C0.25/230-2	0.25	1/3 AC 230/240 V	1.7	IP20	0.75	155 x 60 x 130	Basic I/O	i shopping cart	16130190
i510-C0.37/230-2	0.37	1/3 AC 230/240 V	2.4	IP20	0.75	155 x 60 x 130	Basic I/O	i shopping cart	16129279
i510-C0.55/230-2	0.55	1/3 AC 230/240 V	3.2	IP20	0.95	180 x 60 x 130	Basic I/O	i shopping cart	16132576
i510-C0.75/230-2	0.75	1/3 AC 230/240 V	4.2	IP20	0.95	180 x 60 x 130	Basic I/O	i shopping cart	16130279
i510-C1.1/230-2	1.1	1/3 AC 230/240 V	6	IP20	1.35	250 x 60 x 130	Basic I/O	i shopping cart	16142329
i510-C1.5/230-2	1.5	1/3 AC 230/240 V	7	IP20	1.35	250 x 60 x 130	Basic I/O	i shopping cart	16128935
i510-C2.2/230-2	2.2	1/3 AC 230/240 V	9.6	IP20	1.35	250 x 60 x 130	Basic I/O	i shopping cart	16130739
i510-C4.0/230-2	4	3 AC 230/240 V	16.5	IP20	2.1	250 x 90 x 130	Basic I/O	i shopping cart	16163112
i510-C5.5/230-2	5.5	3 AC 230/240 V	23	IP20	2.1	250 x 90 x 130	Basic I/O	i shopping cart	16163114

i510 cabinet



3-phase mains connection 400 V – Heavy Duty with integrated RFI filter

	P_{rated} [kW]	V_{mains} [V]	I_{rated} [A]	Degree of protection	m [kg]	H x W x D [mm]	I/Os	Info	ID
i510-C0.37/400-3	0.37	3 AC 400 V	1.3	IP20	0.75	155 x 60 x 130	Basic I/O	i shopping cart	16129217
i510-C0.55/400-3	0.55	3 AC 400 V	1.8	IP20	0.95	180 x 60 x 130	Basic I/O	i shopping cart	16129084
i510-C0.75/400-3	0.75	3 AC 400 V	2.4	IP20	0.95	180 x 60 x 130	Basic I/O	i shopping cart	16129214
i510-C1.1/400-3	1.1	3 AC 400 V	3.2	IP20	1.35	250 x 60 x 130	Basic I/O	i shopping cart	16130383
i510-C1.5/400-3	1.5	3 AC 400 V	3.9	IP20	1.35	250 x 60 x 130	Basic I/O	i shopping cart	16128936
i510-C2.2/400-3	2.2	3 AC 400 V	5.6	IP20	1.35	250 x 60 x 130	Basic I/O	i shopping cart	16129713
i510-C3.0/400-3	3	3 AC 400 V	7.3	IP20	1.35	250 x 60 x 130	Basic I/O	i shopping cart	16237999
i510-C4.0/400-3	4	3 AC 400 V	9.5	IP20	1.35	250 x 60 x 130	Basic I/O	i shopping cart	16270390
i510-C5.5/400-3	5.5	3 AC 400 V	13	IP20	2.3	250 x 90 x 130	Basic I/O	i shopping cart	16161644
i510-C7.5/400-3	7.5	3 AC 400 V	16.5	IP20	3.7	276 x 120 x 130	Basic I/O	i shopping cart	16161981
i510-C11/400-3	11	3 AC 400 V	23.5	IP20	3.7	276 x 120 x 130	Basic I/O	i shopping cart	16161266

3-phase mains connection 400 V - Light Duty with integrated RFI filter

	P_{rated} [kW]	V_{mains} [V]	I_{rated} [A]	Degree of protection	m [kg]	H x W x D [mm]	I/Os	Info	ID
i510-C3.0/400-3	4	3 AC 400 V	8.8	IP20	1.35	250 x 60 x 130	Basic I/O	i shopping cart	16237999
i510-C4.0/400-3	5.5	3 AC 400 V	11.9	IP20	1.35	250 x 60 x 130	Basic I/O	i shopping cart	16270390
i510-C5.5/400-3	7.5	3 AC 400 V	15.6	IP20	2.3	250 x 90 x 130	Basic I/O	i shopping cart	16161644
i510-C7.5/400-3	11	3 AC 400 V	23	IP20	3.7	276 x 120 x 130	Basic I/O	i shopping cart	16161981
i510-C11/400-3	15	3 AC 400 V	28.2	IP20	3.7	276 x 120 x 130	Basic I/O	i shopping cart	16161266

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

i510 cabinet – options



Communication



Connection

		Inverter with Basic I/O
I/Os	Basic I/O: 5 x digital input, 1 x digital output, 2 x analog input, 1 x analog output, 1 x NO/NC relay	✓

Communication

		Inverter with Basic I/O
CANopen	Serial CANopen communication protocol Connection via spring terminals	✓
Modbus RTU	Serial Modbus RTU communication protocol Connection via spring terminals	✓

i510 cabinet – accessories

Connection

Shield mounting	See brochure "Accessories for frequency and servo inverters"
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System cables

		Info	ID
Motor cables	See brochure "Accessories for frequency and servo inverters"		
Communication cables	3 m micro USB cable	 	13501172
	5 m micro USB cable	 	13501173

RFI and mains filters

RFI and mains filters IOFAE	See brochure "Accessories for frequency and servo inverters"
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Mains chokes

Mains chokes ELN1	See brochure "Accessories for frequency and servo inverters"
Mains chokes EZAELN3	See brochure "Accessories for frequency and servo inverters"

Diagnostics

		Info	ID
Keypad	Parameterization and diagnostics of the inverter Parameters and actual values are shown on the easy-to-read display	 	13549150
WLAN module	Parameterization and diagnostics of the inverter Commissioning via WLAN connection with engineering tools	 	13648699
USB module	Parameterization and diagnostics of the inverter Commissioning via USB connection with engineering tools	 	13516238
Protective cover	Protective cover when no diagnostic module is plugged on	 	13502341
	Keypad holder for mounting in the control cabinet door	 	13550210
External keypad	Keypad holder with 3 m connection cable	 	13550222
	Keypad holder with 5 m connection cable	 	13550223
Memory modules	12 replacement modules for the inverter, directly pluggable	 	13481882
Memory module copier	Duplication of the data of the memory module	 	13559235

Power supply units

24 V power supply units	See brochure "Accessories for frequency and servo inverters"
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Electrical protection devices and busbars

Fuses	See brochure "Accessories for frequency and servo inverters"
Fuse holders	See brochure "Accessories for frequency and servo inverters"
Busbars	See brochure "Accessories for frequency and servo inverters"

Mounting

		Info	ID
DIN rail mounting	Mounting set for inverters 0.25 ... 0.75 kW	 	13566907
	Mounting set for inverters 1.1 ... 5.5 kW	 	13566908

i550 cabinet



1-phase mains connection 230/240 V with integrated RFI filter

	P _{rated} [kW]	V _{mains} [V]	I _{rated} [A]	Degree of protection	m [kg]	H x W x D [mm]	I/Os	Info	ID
i550-C0.25/230-1	0.25	1 AC 230/240 V	1.7	IP20	0.8	155 x 60 x 130	Standard I/O	i 🛒	16072019
							Application I/O	i 🛒	16074416
i550-C0.37/230-1	0.37	1 AC 230/240 V	2.4	IP20	0.8	155 x 60 x 130	Standard I/O	i 🛒	16064775
							Application I/O	i 🛒	16068738
i550-C0.55/230-1	0.55	1 AC 230/240 V	3.2	IP20	1	180 x 60 x 130	Standard I/O	i 🛒	16065635
							Application I/O	i 🛒	16070964
i550-C0.75/230-1	0.75	1 AC 230/240 V	4.2	IP20	1	180 x 60 x 130	Standard I/O	i 🛒	16064551
							Application I/O	i 🛒	16104125
i550-C1.1/230-1	1.1	1 AC 230/240 V	6	IP20	1.35	250 x 60 x 130	Standard I/O	i 🛒	16064914
							Application I/O	i 🛒	16080044
i550-C1.5/230-1	1.5	1 AC 230/240 V	7	IP20	1.35	250 x 60 x 130	Standard I/O	i 🛒	16065219
							Application I/O	i 🛒	16066001
i550-C2.2/230-1	2.2	1 AC 230/240 V	9.6	IP20	1.35	250 x 60 x 130	Standard I/O	i 🛒	16064726
							Application I/O	i 🛒	16086535

1-phase mains connection 230/240 V without integrated RFI filter

	P _{rated} [kW]	V _{mains} [V]	I _{rated} [A]	Degree of protection	m [kg]	H x W x D [mm]	I/Os	Info	ID
i550-C0.25/230-2	0.25	1/3 AC 230/240 V	1.7	IP20	0.8	155 x 60 x 130	Standard I/O	i 🛒	16116977
							Application I/O	i 🛒	16074416
i550-C0.37/230-2	0.37	1/3 AC 230/240 V	2.4	IP20	0.8	155 x 60 x 130	Standard I/O	i 🛒	16090651
							Application I/O	i 🛒	16068738
i550-C0.55/230-2	0.55	1/3 AC 230/240 V	3.2	IP20	1	180 x 60 x 130	Standard I/O	i 🛒	16100730
							Application I/O	i 🛒	16070964
i550-C0.75/230-2	0.75	1/3 AC 230/240 V	4.2	IP20	1	180 x 60 x 130	Standard I/O	i 🛒	16094146
							Application I/O	i 🛒	16104125
i550-C1.1/230-2	1.1	1/3 AC 230/240 V	6	IP20	1.35	250 x 60 x 130	Standard I/O	i 🛒	16175770
							Application I/O	i 🛒	16080044
i550-C1.5/230-2	1.5	1/3 AC 230/240 V	7	IP20	1.35	250 x 60 x 130	Standard I/O	i 🛒	16080497
							Application I/O	i 🛒	16066001
i550-C2.2/230-2	2.2	1/3 AC 230/240 V	9.6	IP20	1.35	250 x 60 x 130	Standard I/O	i 🛒	16232415
							Application I/O	i 🛒	16086535

i550 cabinet



3-phase mains connection 230/240 V without integrated RFI filter

	P_{rated} [kW]	V_{mains} [V]	I_{rated} [A]	Degree of protection	m [kg]	H x W x D [mm]	I/Os	Info	ID
i550-C0.25/230-2	0.25	1/3 AC 230/240 V	1.7	IP20	0.8	155 x 60 x 130	Standard I/O	i 🛒	16116977
							Application I/O	i 🛒	16123606
i550-C0.37/230-2	0.37	1/3 AC 230/240 V	2.4	IP20	0.8	155 x 60 x 130	Standard I/O	i 🛒	16090651
							Application I/O	i 🛒	16091934
i550-C0.55/230-2	0.55	1/3 AC 230/240 V	3.2	IP20	1	180 x 60 x 130	Standard I/O	i 🛒	16100730
							Application I/O	i 🛒	16113171
i550-C0.75/230-2	0.75	1/3 AC 230/240 V	4.2	IP20	1	180 x 60 x 130	Standard I/O	i 🛒	16094146
							Application I/O	i 🛒	16123605
i550-C1.1/230-2	1.1	1/3 AC 230/240 V	6	IP20	1.35	250 x 60 x 130	Standard I/O	i 🛒	16175770
							Application I/O	i 🛒	16231771
i550-C1.5/230-2	1.5	1/3 AC 230/240 V	7	IP20	1.35	250 x 60 x 130	Standard I/O	i 🛒	16080497
							Application I/O	i 🛒	16159197
i550-C2.2/230-2	2.2	1/3 AC 230/240 V	9.6	IP20	1.35	250 x 60 x 130	Standard I/O	i 🛒	16232415
							Application I/O	i 🛒	16080946
i550-C4.0/230-3	4	3 AC 230/240 V	16.5	IP20	2.1	250 x 90 x 130	Standard I/O	i 🛒	16070330
							Application I/O	i 🛒	16079631
i550-C5.5/230-3	5.5	3 AC 230/240 V	23	IP20	2.1	250 x 90 x 130	Standard I/O	i 🛒	16068824
							Application I/O	i 🛒	16128855

i550 cabinet



3-phase mains connection 400 V – Heavy Duty with integrated RFI filter

	P _{rated} [kW]	V _{mains} [V]	I _{rated} [A]	Degree of protection	m [kg]	H x W x D [mm]	I/Os	Info	ID
i550-C0.37/400-3	0.37	3 AC 400 V	1.3	IP20	0.8	155 x 60 x 130	Standard I/O	i 🛒	16064469
							Application I/O	i 🛒	16069633
i550-C0.55/400-3	0.55	3 AC 400 V	1.8	IP20	1	180 x 60 x 130	Standard I/O	i 🛒	16064720
							Application I/O	i 🛒	16071153
i550-C0.75/400-3	0.75	3 AC 400 V	2.4	IP20	1	180 x 60 x 130	Standard I/O	i 🛒	16064604
							Application I/O	i 🛒	16072611
i550-C1.1/400-3	1.1	3 AC 400 V	3.2	IP20	1.35	250 x 60 x 130	Standard I/O	i 🛒	16064661
							Application I/O	i 🛒	16072669
i550-C1.5/400-3	1.5	3 AC 400 V	3.9	IP20	1.35	250 x 60 x 130	Standard I/O	i 🛒	16064940
							Application I/O	i 🛒	16066295
i550-C2.2/400-3	2.2	3 AC 400 V	5.6	IP20	1.35	250 x 60 x 130	Standard I/O	i 🛒	16064391
							Application I/O	i 🛒	16065212
i550-C3.0/400-3	3	3 AC 400 V	7.3	IP20	1.35	250 x 60 x 130	Standard I/O	i 🛒	16238456
							Application I/O	i 🛒	16272356
i550-C4.0/400-3	4	3 AC 400 V	9.5	IP20	1.35	250 x 60 x 130	Standard I/O	i 🛒	16238735
							Application I/O	i 🛒	16272679
i550-C5.5/400-3	5.5	3 AC 400 V	13	IP20	2.3	250 x 90 x 130	Standard I/O	i 🛒	16064392
							Application I/O	i 🛒	16065756
i550-C7.5/400-3	7.5	3 AC 400 V	16.5	IP20	3.7	276 x 120 x 130	Standard I/O	i 🛒	16510867
							Application I/O	i 🛒	16510883
i550-C11/400-3	11	3 AC 400 V	23.5	IP20	3.7	276 x 120 x 130	Standard I/O	i 🛒	16510907
							Application I/O	i 🛒	16510986
i550-C15/400-3	15	3 AC 400 V	32	IP20	8	342 x 180 x 165	Standard I/O	i 🛒	16648823
							Application I/O	i 🛒	16648986
i550-C18.5/400-3	18.5	3 AC 400 V	40	IP20	8	342 x 180 x 165	Standard I/O	i 🛒	16648824
							Application I/O	i 🛒	16648987
i550-C22/400-3	22	3 AC 400 V	47	IP20	8	342 x 180 x 165	Standard I/O	i 🛒	16648825
							Application I/O	i 🛒	16648988
i550-C30/400-3	30	3 AC 400 V	61	IP20	8	342 x 180 x 165	Standard I/O	i 🛒	16648826
							Application I/O	i 🛒	16648989
i550-C37/400-3	37	3 AC 400 V	76	IP20	17.2	450 x 250 x 230	Standard I/O	i 🛒	16064757
							Application I/O	i 🛒	16070686
i550-C45/400-3	45	3 AC 400 V	89	IP20	17.2	450 x 250 x 230	Standard I/O	i 🛒	16065493
							Application I/O	i 🛒	16074556
i550-C55/400-3	55	3 AC 400 V	110	IP20	24	536 x 250 x 265	Standard I/O	i 🛒	16064467
							Application I/O	i 🛒	16067303
i550-C75/400-3	75	3 AC 400 V	150	IP20	24	536 x 250 x 265	Standard I/O	i 🛒	16064680
							Application I/O	i 🛒	16078904
i550-C90/400-3	90	3 AC 400 V	180	IP20	35.6	685 x 258 x 304	Standard I/O	i 🛒	16109969
							Application I/O	i 🛒	16111446
i550-C110/400-3	110	3 AC 400 V	212	IP20	35.6	685 x 258 x 304	Standard I/O	i 🛒	16110065
							Application I/O	i 🛒	16111443

i550 cabinet



3-phase mains connection 400 V - Light Duty with integrated RFI filter

	P_{rated} [kW]	V_{mains} [V]	I_{rated} [A]	Degree of protection	m [kg]	H x W x D [mm]	I/Os	Info	ID
i550-C3.0/400-3	4	3 AC 400 V	8.8	IP20	1.35	250 x 60 x 130	Standard I/O	i 🛒	16238456
							Application I/O	i 🛒	16272356
i550-C4.0/400-3	5.5	3 AC 400 V	11.9	IP20	1.35	250 x 60 x 130	Standard I/O	i 🛒	16238735
							Application I/O	i 🛒	16272679
i550-C5.5/400-3	7.5	3 AC 400 V	15.6	IP20	2.3	250 x 90 x 130	Standard I/O	i 🛒	16064392
							Application I/O	i 🛒	16065756
i550-C7.5/400-3	11	3 AC 400 V	23	IP20	3.7	276 x 120 x 130	Standard I/O	i 🛒	16510867
							Application I/O	i 🛒	16510883
i550-C11/400-3	15	3 AC 400 V	28.2	IP20	3.7	276 x 120 x 130	Standard I/O	i 🛒	16510907
							Application I/O	i 🛒	16510986
i550-C15/400-3	18.5	3 AC 400 V	38.4	IP20	8	342 x 180 x 165	Standard I/O	i 🛒	16648823
							Application I/O	i 🛒	16648986
i550-C18.5/400-3	22	3 AC 400 V	48	IP20	8	342 x 180 x 165	Standard I/O	i 🛒	16648824
							Application I/O	i 🛒	16648987
i550-C22/400-3	30	3 AC 400 V	56.4	IP20	8	342 x 180 x 165	Standard I/O	i 🛒	16648825
							Application I/O	i 🛒	16648988
i550-C30/400-3	37	3 AC 400 V	73.2	IP20	8	342 x 180 x 165	Standard I/O	i 🛒	16648826
							Application I/O	i 🛒	16648989
i550-C37/400-3	45	3 AC 400 V	91.2	IP20	17.2	450 x 250 x 230	Standard I/O	i 🛒	16064757
							Application I/O	i 🛒	16070686
i550-C45/400-3	55	3 AC 400 V	107	IP20	17.2	450 x 250 x 230	Standard I/O	i 🛒	16065493
							Application I/O	i 🛒	16074556
i550-C55/400-3	75	3 AC 400 V	132	IP20	24	536 x 250 x 265	Standard I/O	i 🛒	16064467
							Application I/O	i 🛒	16067303
i550-C75/400-3	90	3 AC 400 V	180	IP20	24	536 x 250 x 265	Standard I/O	i 🛒	16064680
							Application I/O	i 🛒	16078904
i550-C90/400-3	110	3 AC 400 V	216	IP20	35.6	685 x 258 x 304	Standard I/O	i 🛒	16109969
							Application I/O	i 🛒	16111446
i550-C110/400-3	132	3 AC 400 V	254	IP20	35.6	685 x 258 x 304	Standard I/O	i 🛒	16110065
							Application I/O	i 🛒	16111443

Mains choke is generally prescribed from 30 kW (for Light Duty from 37 kW).

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

i550 cabinet – options



Communication

CANopen

EtherCAT

EtherNet/IP

IO-Link

Modbus RTU

Modbus TCP

ETHERNET POWERLINK

PROFIBUS

PROFINET

Functional safety



Basic Safety - STO

Connection

		Inverter with	
		Standard I/O	Application I/O
I/Os	Standard I/O: 5 x digital input, 1 x digital output, 2 x analog input, 1 x analog output, 1 x NO/NC relay, external 24 V supply	✓	
	Application I/O: 7 x digital input, 2 x digital output, 2 x analog input, 2 x analog output, 1 x NO/NC relay, external 24 V supply		✓

Communication

		Inverter with	
		Standard I/O	Application I/O
CANopen	Serial CANopen communication protocol Connection via spring terminals	✓	
EtherCAT	Ethernet-based fieldbus system EtherCAT Connection via standardized RJ45 connectors	✓	
EtherNet/IP	Ethernet-based fieldbus system EtherNet/IP Connection via standardized RJ45 connectors	✓	
IO-Link	IO-Link device Connection via spring terminals	✓	
Modbus RTU	Serial Modbus RTU communication protocol Connection via spring terminals	✓	
Modbus TCP	Ethernet-based fieldbus system Modbus TCP Connection via standardized RJ45 connectors	✓	
POWERLINK	Ethernet-based fieldbus system POWERLINK Connection via standardized RJ45 connectors	✓	
PROFIBUS	Serial PROFIBUS communication protocol Connection via standardized sub-D connector	✓	
PROFINET	Ethernet-based fieldbus system PROFINET Connection via standardized RJ45 connectors	✓	

Functional safety

		Inverter with	
		Standard I/O	Application I/O
Basic Safety - STO	Functional safety function “Safe Torque Off (STO)” This function corresponds to a “Stop 0” according to EN 60204	✓	✓

i550 cabinet – accessories

Connection

Shield mounting	See brochure "Accessories for frequency and servo inverters"
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System cables

		Info	ID
Motor cables	See brochure "Accessories for frequency and servo inverters"		
Communication cables	3 m micro USB cable	 	13501172
	5 m micro USB cable	 	13501173

RFI and mains filters

RFI and mains filters IOFAE	See brochure "Accessories for frequency and servo inverters"
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Mains chokes

Mains chokes ELN1	See brochure "Accessories for frequency and servo inverters"
Mains chokes EZAELN3	See brochure "Accessories for frequency and servo inverters"

Braking operation and brake control

		Info	ID
Brake resistors	See brochure "Accessories for frequency and servo inverters"		
Brake connection sets	1 x brake rectifier for 1 x 230 V AC	 	13218705
	1 x brake rectifier for 3 x 400 V AC	 	13218704

Diagnostics

		Info	ID
Keypad	Parameterization and diagnostics of the inverter Parameters and actual values are shown on the easy-to-read display	 	13549150
WLAN module	Parameterization and diagnostics of the inverter Commissioning via WLAN connection with engineering tools	 	13648699
USB module	Parameterization and diagnostics of the inverter Commissioning via USB connection with engineering tools	 	13516238
Protective cover	Protective cover when no diagnostic module is plugged on	 	13502341
External keypad	Keypad holder for mounting in the control cabinet door	 	13550210
	Keypad holder with 3 m connection cable	 	13550222
	Keypad holder with 5 m connection cable	 	13550223
Memory modules	12 replacement modules for the inverter, directly pluggable	 	13481882
Memory module copier	Duplication of the data of the memory module	 	13559235

Power supply units

24 V power supply units	See brochure "Accessories for frequency and servo inverters"
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Electrical protection devices and busbars

Fuses	See brochure "Accessories for frequency and servo inverters"
Fuse holders	See brochure "Accessories for frequency and servo inverters"
Busbars	See brochure "Accessories for frequency and servo inverters"

Mounting

		Info	ID
DIN rail mounting	Mounting set for inverters 0.25 ... 0.75 kW	 	13566907
	Mounting set for inverters 1.1 ... 5.5 kW	 	13566908

i550 protec



1-phase mains connection 230/240 V with integrated RFI filter

	P_{rated} [kW]	V_{mains} [V]	I_{rated} [A]	Degree of protection	m [kg]	H x W x D [mm]	I/Os	Info	ID
i550-P0.37/230-1	0.37	1 AC 230/240 V	2.4	IP66	1.8	190 x 140 x 117	Standard I/O	i 🛒	16289267
i550-P0.55/230-1	0.55	1 AC 230/240 V	3.2	IP66	1.8	190 x 140 x 117	Standard I/O	i 🛒	16289308
i550-P0.75/230-1	0.75	1 AC 230/240 V	4.2	IP66	1.8	190 x 140 x 117	Standard I/O	i 🛒	16289319
i550-P1.1/230-1	1.1	1 AC 230/240 V	6	IP66	2.7	205 x 140 x 140	Standard I/O	i 🛒	16289328
i550-P1.5/230-1	1.5	1 AC 230/240 V	7	IP66	2.7	205 x 140 x 140	Standard I/O	i 🛒	16289356
i550-P2.2/230-1	2.2	1 AC 230/240 V	9.6	IP66	2.7	205 x 140 x 140	Standard I/O	i 🛒	16289364

1-phase mains connection 230/240 V without integrated RFI filter

	P_{rated} [kW]	V_{mains} [V]	I_{rated} [A]	Degree of protection	m [kg]	H x W x D [mm]	I/Os	Info	ID
i550-P0.37/230-2	0.37	1/3 AC 230/240 V	2.4	IP66	1.7	190 x 140 x 117	Standard I/O	i 🛒	16289896
i550-P0.55/230-2	0.55	1/3 AC 230/240 V	3.2	IP66	1.7	190 x 140 x 117	Standard I/O	i 🛒	16289897
i550-P0.75/230-2	0.75	1/3 AC 230/240 V	4.2	IP66	1.7	190 x 140 x 117	Standard I/O	i 🛒	16289898
i550-P1.1/230-2	1.1	1/3 AC 230/240 V	6	IP66	2.6	205 x 140 x 140	Standard I/O	i 🛒	16289899
i550-P1.5/230-2	1.5	1/3 AC 230/240 V	7	IP66	2.6	205 x 140 x 140	Standard I/O	i 🛒	16289900
i550-P2.2/230-2	2.2	1/3 AC 230/240 V	9.6	IP66	2.6	205 x 140 x 140	Standard I/O	i 🛒	16289912

3-phase mains connection 230/240 V without integrated RFI filter

	P_{rated} [kW]	V_{mains} [V]	I_{rated} [A]	Degree of protection	m [kg]	H x W x D [mm]	I/Os	Info	ID
i550-P0.37/230-2	0.37	1/3 AC 230/240 V	2.4	IP66	1.7	190 x 140 x 117	Standard I/O	i 🛒	16289896
i550-P0.55/230-2	0.55	1/3 AC 230/240 V	3.2	IP66	1.7	190 x 140 x 117	Standard I/O	i 🛒	16289897
i550-P0.75/230-2	0.75	1/3 AC 230/240 V	4.2	IP66	1.7	190 x 140 x 117	Standard I/O	i 🛒	16289898
i550-P1.1/230-2	1.1	1/3 AC 230/240 V	6	IP66	2.6	205 x 140 x 140	Standard I/O	i 🛒	16289899
i550-P1.5/230-2	1.5	1/3 AC 230/240 V	7	IP66	2.6	205 x 140 x 140	Standard I/O	i 🛒	16289900
i550-P2.2/230-2	2.2	1/3 AC 230/240 V	9.6	IP66	2.6	205 x 140 x 140	Standard I/O	i 🛒	16289912
i550-P3.0/230-3	3	3 AC 230/240 V	12	IP66	4.8	250 x 180 x 168	Standard I/O	i 🛒	16438365
i550-P4.0/230-3	4	3 AC 230/240 V	16.5	IP66	4.8	250 x 180 x 168	Standard I/O	i 🛒	16438369
i550-P5.5/230-3	5.5	3 AC 230/240 V	23	IP66	4.8	250 x 180 x 168	Standard I/O	i 🛒	16438390
i550-P7.5/230-3	7.5	3 AC 230/240 V	29	IP66	5	290 x 180 x 173	Standard I/O	i 🛒	16438405
i550-P11/230-3	11	3 AC 230/240 V	42	IP66	5	290 x 180 x 173	Standard I/O	i 🛒	16438121
i550-P15/230-3	15	3 AC 230/240 V	54	IP66	9.4	405 x 230 x 187	Standard I/O	i 🛒	16482632
i550-P18.5/230-3	18.5	3 AC 230/240 V	68	IP66	9.4	405 x 230 x 187	Standard I/O	i 🛒	16482707
i550-P30/230-3	30	3 AC 230/240 V	89	IP55	46	778 x 298 x 286	Standard I/O	i 🛒	16609245
i550-P45/230-3	45	3 AC 230/240 V	150	IP55	53	778 x 298 x 378	Standard I/O	i 🛒	16609293

3-phase mains connection 400 V with integrated RFI filter

	P_{rated} [kW]	V_{mains} [V]	I_{rated} [A]	Degree of protection	m [kg]	H x W x D [mm]	I/Os	Info	ID
i550-P0.37/400-3	0.37	3 AC 400 V	1.3	IP66	1.8	190 x 140 x 117	Standard I/O	i 🛒	16289382
i550-P0.55/400-3	0.55	3 AC 400 V	1.8	IP66	1.8	190 x 140 x 117	Standard I/O	i 🛒	16289390
i550-P0.75/400-3	0.75	3 AC 400 V	2.4	IP66	1.8	190 x 140 x 117	Standard I/O	i 🛒	16289401
i550-P1.1/400-3	1.1	3 AC 400 V	3.2	IP66	2.7	205 x 140 x 140	Standard I/O	i 🛒	16289416
i550-P1.5/400-3	1.5	3 AC 400 V	3.9	IP66	2.7	205 x 140 x 140	Standard I/O	i 🛒	16289340
i550-P2.2/400-3	2.2	3 AC 400 V	5.6	IP66	2.7	205 x 140 x 140	Standard I/O	i 🛒	16289341
i550-P3.0/400-3	3	3 AC 400 V	7.3	IP66	4.9	250 x 180 x 168	Standard I/O	i 🛒	16438049
i550-P4.0/400-3	4	3 AC 400 V	9.5	IP66	4.9	250 x 180 x 168	Standard I/O	i 🛒	16438336
i550-P5.5/400-3	5.5	3 AC 400 V	13	IP66	4.9	250 x 180 x 168	Standard I/O	i 🛒	16438342
i550-P7.5/400-3	7.5	3 AC 400 V	16.5	IP66	5.1	290 x 180 x 173	Standard I/O	i 🛒	16438327
i550-P11/400-3	11	3 AC 400 V	23.5	IP66	5.1	290 x 180 x 173	Standard I/O	i 🛒	16438271
i550-P15/400-3	15	3 AC 400 V	32	IP66	10.2	405 x 230 x 187	Standard I/O	i 🛒	16482411
i550-P18.5/400-3	18.5	3 AC 400 V	40	IP66	10.2	405 x 230 x 187	Standard I/O	i 🛒	16482701
i550-P22/400-3	22	3 AC 400 V	47	IP66	10.2	405 x 230 x 187	Standard I/O	i 🛒	16482771
i550-P30/400-3	30	3 AC 400 V	61	IP55	46	778 x 298 x 286	Standard I/O	i 🛒	16609352
i550-P37/400-3	37	3 AC 400 V	76	IP55	46	778 x 298 x 286	Standard I/O	i 🛒	16609416
i550-P45/400-3	45	3 AC 400 V	89	IP55	46	778 x 298 x 286	Standard I/O	i 🛒	16609480
i550-P55/400-3	55	3 AC 400 V	110	IP55	53	778 x 298 x 378	Standard I/O	i 🛒	16609544
i550-P75/400-3	75	3 AC 400 V	150	IP55	53	778 x 298 x 378	Standard I/O	i 🛒	16609609

i550 protec with extension box



1-phase mains connection 230/240 V with integrated RFI filter

	P_{rated} [kW]	V_{mains} [V]	I_{rated} [A]	Degree of protection	m [kg]	H x W x D [mm]	I/Os	Info	ID
i550-P0.37/230-1	0.37	1 AC 230/240 V	2.4	IP66	2.3	330 x 140 x 117	Standard I/O	i	16587771
i550-P0.55/230-1	0.55	1 AC 230/240 V	3.2	IP66	2.3	330 x 140 x 117	Standard I/O	i	16587786
i550-P0.75/230-1	0.75	1 AC 230/240 V	4.2	IP66	2.3	330 x 140 x 117	Standard I/O	i	16587801
i550-P1.1/230-1	1.1	1 AC 230/240 V	6	IP66	3.3	346 x 140 x 140	Standard I/O	i	16587817
i550-P1.5/230-1	1.5	1 AC 230/240 V	7	IP66	3.3	346 x 140 x 140	Standard I/O	i	16587832
i550-P2.2/230-1	2.2	1 AC 230/240 V	9.6	IP66	3.3	346 x 140 x 140	Standard I/O	i	16587848

1-phase mains connection 230/240 V without integrated RFI filter

	P_{rated} [kW]	V_{mains} [V]	I_{rated} [A]	Degree of protection	m [kg]	H x W x D [mm]	I/Os	Info	ID
i550-P0.37/230-2	0.37	1/3 AC 230/240 V	2.4	IP66	2.2	330 x 140 x 117	Standard I/O	i	16567441
i550-P0.55/230-2	0.55	1/3 AC 230/240 V	3.2	IP66	2.2	330 x 140 x 117	Standard I/O	i	16587881
i550-P0.75/230-2	0.75	1/3 AC 230/240 V	4.2	IP66	2.2	330 x 140 x 117	Standard I/O	i	16587897
i550-P1.1/230-2	1.1	1/3 AC 230/240 V	6	IP66	3.2	346 x 140 x 140	Standard I/O	i	16587912
i550-P1.5/230-2	1.5	1/3 AC 230/240 V	7	IP66	3.2	346 x 140 x 140	Standard I/O	i	16502886
i550-P2.2/230-2	2.2	1/3 AC 230/240 V	9.6	IP66	3.2	346 x 140 x 140	Standard I/O	i	16587943

3-phase mains connection 230/240 V without integrated RFI filter

	P_{rated} [kW]	V_{mains} [V]	I_{rated} [A]	Degree of protection	m [kg]	H x W x D [mm]	I/Os	Info	ID
i550-P0.37/230-2	0.37	1/3 AC 230/240 V	2.4	IP66	2.2	330 x 140 x 117	Standard I/O	i	16567441
i550-P0.55/230-2	0.55	1/3 AC 230/240 V	3.2	IP66	2.2	330 x 140 x 117	Standard I/O	i	16587881
i550-P0.75/230-2	0.75	1/3 AC 230/240 V	4.2	IP66	2.2	330 x 140 x 117	Standard I/O	i	16587897
i550-P1.1/230-2	1.1	1/3 AC 230/240 V	6	IP66	3.2	346 x 140 x 140	Standard I/O	i	16587912
i550-P1.5/230-2	1.5	1/3 AC 230/240 V	7	IP66	3.2	346 x 140 x 140	Standard I/O	i	16502886
i550-P2.2/230-2	2.2	1/3 AC 230/240 V	9.6	IP66	3.2	346 x 140 x 140	Standard I/O	i	16587943
i550-P3.0/230-3	3	3 AC 230/240 V	12	IP66	5.7	396 x 180 x 165	Standard I/O	i	16587958
i550-P4.0/230-3	4	3 AC 230/240 V	16.5	IP66	5.7	396 x 180 x 165	Standard I/O	i	16582789
i550-P5.5/230-3	5.5	3 AC 230/240 V	23	IP66	5.7	396 x 180 x 165	Standard I/O	i	16587989
i550-P7.5/230-3	7.5	3 AC 230/240 V	29	IP66	6	471 x 180 x 170	Standard I/O	i	16588005
i550-P11/230-3	11	3 AC 230/240 V	42	IP66	6	471 x 180 x 170	Standard I/O	i	16481655
i550-P15/230-3	15	3 AC 230/240 V	54	IP66	11.4	612 x 230 x 184	Standard I/O	i	16588575
i550-P18.5/230-3	18.5	3 AC 230/240 V	68	IP66	11.4	612 x 230 x 184	Standard I/O	i	16588619

3-phase mains connection 400 V with integrated RFI filter

	P_{rated} [kW]	V_{mains} [V]	I_{rated} [A]	Degree of protection	m [kg]	H x W x D [mm]	I/Os	Info	ID
i550-P0.37/400-3	0.37	3 AC 400 V	1.3	IP66	2.3	330 x 140 x 117	Standard I/O	i	16510462
i550-P0.55/400-3	0.55	3 AC 400 V	1.8	IP66	2.3	330 x 140 x 117	Standard I/O	i	16588051
i550-P0.75/400-3	0.75	3 AC 400 V	2.4	IP66	2.3	330 x 140 x 117	Standard I/O	i	16588065
i550-P1.1/400-3	1.1	3 AC 400 V	3.2	IP66	3.3	346 x 140 x 140	Standard I/O	i	16492052
i550-P1.5/400-3	1.5	3 AC 400 V	3.9	IP66	3.3	346 x 140 x 140	Standard I/O	i	16588090
i550-P2.2/400-3	2.2	3 AC 400 V	5.6	IP66	3.3	346 x 140 x 140	Standard I/O	i	16588105
i550-P3.0/400-3	3	3 AC 400 V	7.3	IP66	5.8	396 x 180 x 165	Standard I/O	i	16588118
i550-P4.0/400-3	4	3 AC 400 V	9.5	IP66	5.8	396 x 180 x 165	Standard I/O	i	16588126
i550-P5.5/400-3	5.5	3 AC 400 V	13	IP66	5.8	396 x 180 x 165	Standard I/O	i	16588135
i550-P7.5/400-3	7.5	3 AC 400 V	16.5	IP66	6.1	471 x 180 x 170	Standard I/O	i	16588150
i550-P11/400-3	11	3 AC 400 V	23.5	IP66	6.1	471 x 180 x 170	Standard I/O	i	16588165
i550-P15/400-3	15	3 AC 400 V	32	IP66	11.5	612 x 230 x 184	Standard I/O	i	16588583
i550-P18.5/400-3	18.5	3 AC 400 V	40	IP66	11.5	612 x 230 x 184	Standard I/O	i	16588635
i550-P22/400-3	22	3 AC 400 V	47	IP66	11.5	612 x 230 x 184	Standard I/O	i	16588678

The i550 protec products listed here are equipped with an empty extension box. The extension box can also be configured with a built-in disconnect switch.

i550 protec – options



Communication

CANopen

EtherCAT

EtherNet/IP

IO-Link

Modbus RTU

Modbus TCP

PROFINET

Diagnostics

Keypad

WLAN module

Functional safety

Basic Safety - STO

Connection

		Inverter with Standard I/O
I/Os	Standard I/O: 5 x digital input, 1 x digital output, 2 x analog input, 1 x analog output, 1 x NO/NC relay, external 24 V supply	✓

Communication

		Inverter with Standard I/O
CANopen	Serial CANopen communication protocol Connection via spring terminals	✓
EtherCAT	Ethernet-based fieldbus system EtherCAT Connection via standardized RJ45 connectors	✓
EtherNet/IP	Ethernet-based fieldbus system EtherNet/IP Connection via standardized RJ45 connectors	✓
IO-Link	IO-Link device Connection via spring terminals	✓
Modbus RTU	Serial Modbus RTU communication protocol Connection via spring terminals	✓
Modbus TCP	Ethernet-based fieldbus system Modbus TCP Connection via standardized RJ45 connectors	✓
PROFINET	Ethernet-based fieldbus system PROFINET Connection via standardized RJ45 connectors	✓

Diagnostics

		Inverter with Standard I/O
Keypad	Parameterization and diagnostics of the inverter Parameters and actual values are shown on the easy-to-read display	✓
WLAN module	Parameterization and diagnostics of the inverter Commissioning via WLAN connection with engineering tools	✓

Functional safety

		Inverter with Standard I/O
Basic Safety - STO	Functional safety function "Safe Torque Off (STO)" This function corresponds to a "Stop 0" according to EN 60204	✓

i550 protec – accessories

Connection

		Info	ID
Connectors	QUICKON connector (male) for the mains connection 0.37 ... 4 kW (1 ... 2.5 mm ²) with wall bushing	 	13591613
	Distributor for QUICKON wiring of several inverters, T-piece, 1 ... 2.5 mm ²	 	13566790
	Distributor for QUICKON wiring of several inverters, T-piece, 2.5 ... 6 mm ²	 	13566824
	Distributor for QUICKON wiring of several inverters, H-piece, 1 ... 2.5 mm ²	 	13566789
	Distributor for QUICKON wiring of several inverters, H-piece, 2.5 ... 6 mm ²	 	13566823
	Angled RJ45 connector for simplified connection for EtherCAT, EtherNet/IP, Modbus TCP and PROFINET networks	 	13598644
Cable gland sets	5-fold cable gland set for devices 0.37 ... 2.2 kW	 	13584557
	5-fold cable gland set for devices 3 ... 11 kW	 	13584558
	5-fold cable gland set for devices 15 ... 22 kW	 	13584559
	Membrane set, 5 x M12 cable glands to avoid condensation water	 	13584561
	1 x RJ45 cable gland for easy network connection	 	13584560

System cables

		Info	ID
Motor cables	See brochure "Accessories for frequency and servo inverters"		
Communication cables	3 m micro USB cable	 	13501172
	5 m micro USB cable	 	13501173
	0.5 m Ethernet cable	 	13641901
	1 m Ethernet cable	 	13641902
	2 m Ethernet cable	 	13641903
	3 m Ethernet cable	 	13641904
	5 m Ethernet cable	 	13641905

Braking operation and brake control

		Info	ID
Brake resistors	See brochure "Accessories for frequency and servo inverters"		
Brake connection sets	1 x brake rectifier for 1 x 230 V AC	 	13218705
	1 x brake rectifier for 3 x 400 V AC	 	13218704

Diagnostics

		Info	ID
Memory modules	12 replacement modules for the inverter, directly pluggable	 	13481882
Memory module copier	Duplication of the data of the memory module	 	13559235

Power supply units

24 V power supply units	See brochure "Accessories for frequency and servo inverters"
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Electrical protection devices and busbars

Fuses	See brochure "Accessories for frequency and servo inverters"
Fuse holders	See brochure "Accessories for frequency and servo inverters"
Busbars	See brochure "Accessories for frequency and servo inverters"

Accessories for extension box

		Info	ID
Switches/potentiometer set	1 x selector switch and labeling field, 1 x potentiometer 10 kOhm	 	13592391
	10 x selector switch and labeling field	 	13604743
	5 x potentiometer 10 kOhm	 	13604744
Pushbutton sets	10 x black pushbutton with labeling field	 	13604711
	10 x red pushbutton with labeling field	 	13604742
Signal lamp sets	10 x blue signal lamp	 	13606251
	10 x green signal lamp	 	13606443
	10 x red signal lamp	 	13606442
Connection set	5 x DIN rail, 7-pole Terminal block incl. PE	 	13593846

i550/i650 motec for wall mounting



3-phase mains connection 230/240 V – Heavy Duty with integrated RFI filter

	P _{rated} [kW]	V _{mains} [V]	I _{rated} [A]	Degree of protection	m [kg]	H x W x D [mm]	I/Os	Info	ID
i□□□-M0.37/230-3	0.37	3 AC 230/240 V	2.4	IP66	3.2	202 x 265 x 128	Standard I/O	 	16776404
							Application I/O		
i□□□-M0.55/230-3	0.55	3 AC 230/240 V	3.2	IP66	3.2	202 x 265 x 128	Standard I/O	 	16776407
							Application I/O		
i□□□-M0.75/230-3	0.75	3 AC 230/240 V	4.2	IP66	3.2	202 x 265 x 128	Standard I/O	 	16776408
							Application I/O		
i□□□-M1.1/230-3	1.1	3 AC 230/240 V	6	IP66	3.2	202 x 265 x 128	Standard I/O	 	16776411
							Application I/O		
i□□□-M1.5/230-3	1.5	3 AC 230/240 V	7	IP66	3.8	202 x 265 x 152	Standard I/O	 	16776413
							Application I/O		
i□□□-M2.2/230-3	2.2	3 AC 230/240 V	9.6	IP66	3.8	202 x 265 x 152	Standard I/O	 	16776414
							Application I/O		
i□□□-M3.0/230-3	3	3 AC 230/240 V	12	IP66	3.8	202 x 265 x 152	Standard I/O	 	16776417
							Application I/O		
i□□□-M4.0/230-3	4	3 AC 230/240 V	16.5	IP66	6	257 x 358 x 168	Standard I/O		
							Application I/O		
i□□□-M5.5/230-3	5.5	3 AC 230/240 V	23	IP66	6	257 x 358 x 168	Standard I/O		
							Application I/O		
i□□□-M7.5/230-3	7.5	3 AC 230/240 V	29	IP66	13.3	340 x 443 x 209	Standard I/O		
							Application I/O		
i□□□-M11/230-3	11	3 AC 230/240 V	42	IP66	13.3	340 x 443 x 209	Standard I/O		
							Application I/O		
i□□□-M15/230-3	15	3 AC 230/240 V	54	IP66	13.3	340 x 443 x 209	Standard I/O		
							Application I/O		
i□□□-M18.5/230-3	18.5	3 AC 230/240 V	68	IP66	13.3	340 x 443 x 209	Standard I/O		
							Application I/O		
i□□□-M22/230-3	22	3 AC 230/240 V	80	IP66	13.3	340 x 443 x 209	Standard I/O		
							Application I/O		

□□□ Wildcard for product series (550 or 650)

i550/i650 motec for wall mounting



3-phase mains connection 400 V – Heavy Duty with integrated RFI filter

	P _{rated} [kW]	V _{mains} [V]	I _{rated} [A]	Degree of protection	m [kg]	H x W x D [mm]	I/Os	Info	ID
i□□□-M0.37/400-3	0.37	3 AC 400 V	1.3	IP66	3.2	202 x 265 x 128	Standard I/O Application I/O		16679090
i□□□-M0.55/400-3	0.55	3 AC 400 V	1.8	IP66	3.2	202 x 265 x 128	Standard I/O Application I/O		16678033
i□□□-M0.75/400-3	0.75	3 AC 400 V	2.4	IP66	3.2	202 x 265 x 128	Standard I/O Application I/O		16678089
i□□□-M1.1/400-3	1.1	3 AC 400 V	3.2	IP66	3.2	202 x 265 x 128	Standard I/O Application I/O		16707359
i□□□-M1.5/400-3	1.5	3 AC 400 V	3.9	IP66	3.2	202 x 265 x 128	Standard I/O Application I/O		16678034
i□□□-M2.2/400-3	2.2	3 AC 400 V	5.6	IP66	3.2	202 x 265 x 128	Standard I/O Application I/O		16772607
i□□□-M3.0/400-3	3	3 AC 400 V	7.3	IP66	3.8	202 x 265 x 152	Standard I/O Application I/O		16677850
i□□□-M4.0/400-3	4	3 AC 400 V	9.5	IP66	3.8	202 x 265 x 152	Standard I/O Application I/O		16682504
i□□□-M5.5/400-3	5.5	3 AC 400 V	13	IP66	3.8	202 x 265 x 152	Standard I/O Application I/O		16776440
i□□□-M7.5/400-3	7.5	3 AC 400 V	16.5	IP66	6	257 x 358 x 168	Standard I/O Application I/O		
i□□□-M11/400-3	11	3 AC 400 V	23.5	IP66	6	257 x 358 x 168	Standard I/O Application I/O		
i□□□-M15/400-3	15	3 AC 400 V	32	IP66	13.3	340 x 443 x 209	Standard I/O Application I/O		
i□□□-M18.5/400-3	18.5	3 AC 400 V	40	IP66	13.3	340 x 443 x 209	Standard I/O Application I/O		
i□□□-M22/400-3	22	3 AC 400 V	47	IP66	13.3	340 x 443 x 209	Standard I/O Application I/O		
i□□□-M30/400-3	30	3 AC 400 V	61	IP66	13.3	340 x 443 x 209	Standard I/O Application I/O		
i□□□-M37/400-3	37	3 AC 400 V	76	IP66	13.3	340 x 443 x 209	Standard I/O Application I/O		
i□□□-M45/400-3	45	3 AC 400 V	84	IP66	13.3	340 x 443 x 209	Standard I/O Application I/O		

□□□ Wildcard for product series (550 or 650)

i550/i650 motec for wall mounting – options



Communication



Diagnostics



Functional safety



Connection

		Inverter with	
		Standard I/O	Application I/O
Mains connection	Han Q4/2 connector (male) for mains connection up to 5.5 kW (3 x 230/240 V); 11 kW (3 x 400 V)	✓	✓
	Han Q4/2 connector (female) for looping-through connection up to 5.5 kW (3 x 230/240 V); 11 kW (3 x 400 V)		
	Terminal connection from 7.5 kW (3 x 230/240 V); 15 kW (3 x 400 V)	✓	✓
I/Os	Standard I/O: 4 x digital input or 3 x digital input/1 x digital output (configurable) Connection via 2 x 5-pole M12 connector, A coded	✓	
	Application I/O: Limited IO-Link master functionality for easy data exchange between IO-Link sensors and actuators 4 x IO-Link port or 8 x digital input or 4 x digital input/4 x digital output (configurable) Connection via 4 x 5-pole M12 connector, A coded		✓
	Terminal connection	✓	✓
Motor connection	Han Q8 connector up to 5.5 kW (3 x 230/240 V); 11 kW (3 x 400 V)	✓	✓
	M23 connector up to 5.5 kW (3 x 230/240 V); 11 kW (3 x 400 V)	✓	✓
	M40 connector for 7.5 ... 11 kW (3 x 230/240 V); 15 ... 22 kW (3 x 400 V)	✓	✓

Communication

		Inverter with	
		Standard I/O	Application I/O
EtherCAT	Ethernet-based fieldbus system EtherCAT Can be activated via parameterization Connection via 4-pole M12 connector, D coded	✓	✓
EtherNet/IP	Ethernet-based fieldbus system EtherNet/IP Can be activated via parameterization Connection via 4-pole M12 connector, D coded	✓	✓
Modbus TCP	Ethernet-based fieldbus system Modbus TCP Can be activated via parameterization Connection via 4-pole M12 connector, D coded	✓	✓
PROFINET	Ethernet-based fieldbus system PROFINET Can be activated via parameterization Connection via 4-pole M12 connector, D coded	✓	✓

i550/i650 motec for wall mounting – options

Diagnostics

		Inverter with	
		Standard I/O	Application I/O
USB connection	Parameterization and diagnostics of the inverter Commissioning via USB connection with engineering tools	✓	✓

Functional safety

		Inverter with	
		Standard I/O	Application I/O
Basic Safety - STO	Functional safety function "Safe Torque Off (STO)" This function corresponds to a "Stop 0" according to EN 60204 Connection via 5-pole M12 connector, A coded	✓	✓
Extended Safety	Safe stop functions: Safe torque off (STO), Safe stop 1 (SS1) Auxiliary and maintenance functions: Safe Muting (MUT) Safety bus: CIP Safety		✓

i550/i650 motec für wall mounting – accessories

Connection

		Info		ID
				
Cable gland set	Membrane set, 5 x M12 cable glands to avoid condensation water			13584561

System cables

Mains cables	See brochure "Accessories for frequency and servo inverters"
Motor cables	See brochure "Accessories for frequency and servo inverters"

Power supply units

24 V power supply units	See brochure "Accessories for frequency and servo inverters"
48 V power supply units	See brochure "Accessories for frequency and servo inverters"

Extension box for decentralized control functions

Mountable box (up to 11 kW)	Extension box, only with mains terminals
	Extension box with disconnect switch
	Extension box with disconnect switch with status feedback
	Extension box with disconnect switch with Type E combination motor controller (IP54, UL Type 12/12K)
	Extension box with disconnect switch with Type E combination motor controller and status feedback (IP54, UL Type 12/12K)
	Extension box with disconnect switch with status feedback and operating elements (IP54, UL Type 12/12K)
	Extension box with disconnect switch with status feedback, operating element, and potentiometer (IP54, UL Type 12/12K)

i550/i650 motec for motor mounting



3-phase mains connection 230/240 V with integrated RFI filter

	P _{rated} [kW]	V _{mains} [V]	I _{rated} [A]	Degree of protection	m [kg]	H x W x D [mm]	I/Os	Info	ID
i□□□-M0.37/230-3	0.37	3 AC 230/240 V	2.4	IP66	2.9	160 x 265 x 126	Standard I/O	 	16776528
							Application I/O		
i□□□-M0.55/230-3	0.55	3 AC 230/240 V	3.2	IP66	2.9	160 x 265 x 126	Standard I/O	 	16776530
							Application I/O		
i□□□-M0.75/230-3	0.75	3 AC 230/240 V	4.2	IP66	2.9	160 x 265 x 126	Standard I/O	 	16776532
							Application I/O		
i□□□-M1.1/230-3	1.1	3 AC 230/240 V	6	IP66	2.9	160 x 265 x 126	Standard I/O	 	16776535
							Application I/O		
i□□□-M1.5/230-3	1.5	3 AC 230/240 V	7	IP66	3.4	160 x 265 x 140	Standard I/O	 	16776578
							Application I/O		
i□□□-M2.2/230-3	2.2	3 AC 230/240 V	9.6	IP66	3.4	160 x 265 x 140	Standard I/O	 	16776579
							Application I/O		
i□□□-M3.0/230-3	3	3 AC 230/240 V	12	IP66	3.4	160 x 265 x 140	Standard I/O	 	16776537
							Application I/O		
i□□□-M4.0/230-3	4	3 AC 230/240 V	16.5	IP66	5.4	211 x 358 x 164	Standard I/O		
							Application I/O		
i□□□-M5.5/230-3	5.5	3 AC 230/240 V	23	IP66	5.4	211 x 358 x 164	Standard I/O		
							Application I/O		
i□□□-M7.5/230-3	7.5	3 AC 230/240 V	29	IP66	12.5	280 x 443 x 216	Standard I/O		
							Application I/O		
i□□□-M11/230-3	11	3 AC 230/240 V	42	IP66	12.5	280 x 443 x 216	Standard I/O		
							Application I/O		
i□□□-M15/230-3	15	3 AC 230/240 V	54	IP66	12.5	280 x 443 x 216	Standard I/O		
							Application I/O		
i□□□-M18.5/230-3	18.5	3 AC 230/240 V	68	IP66	12.5	280 x 443 x 216	Standard I/O		
							Application I/O		
i□□□-M22/230-3	22	3 AC 230/240 V	80	IP66	12.5	280 x 443 x 216	Standard I/O		
							Application I/O		

□□□ Wildcard for product series (550 or 650)

i550/i650 motec for motor mounting

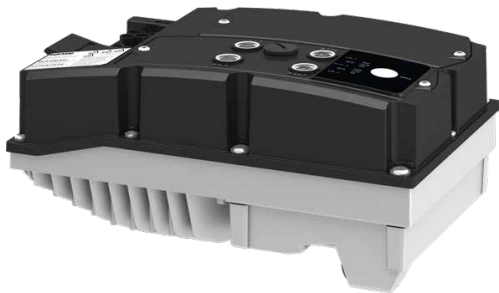


3-phase mains connection 400 V with integrated RFI filter

	P _{rated} [kW]	V _{mains} [V]	I _{rated} [A]	Degree of protection	m [kg]	H x W x D [mm]	I/Os	Info	ID
i□□□-M0.37/400-3	0.37	3 AC 400 V	1.3	IP66	2.9	160 x 265 x 126	Standard I/O Application I/O	i shopping cart	16675838
i□□□-M0.55/400-3	0.55	3 AC 400 V	1.8	IP66	2.9	160 x 265 x 126	Standard I/O Application I/O	i shopping cart	16679448
i□□□-M0.75/400-3	0.75	3 AC 400 V	2.4	IP66	2.9	160 x 265 x 126	Standard I/O Application I/O	i shopping cart	16676982
i□□□-M1.1/400-3	1.1	3 AC 400 V	3.2	IP66	2.9	160 x 265 x 126	Standard I/O Application I/O	i shopping cart	16776559
i□□□-M1.5/400-3	1.5	3 AC 400 V	3.9	IP66	2.9	160 x 265 x 126	Standard I/O Application I/O	i shopping cart	16776562
i□□□-M2.2/400-3	2.2	3 AC 400 V	5.6	IP66	2.9	160 x 265 x 126	Standard I/O Application I/O	i shopping cart	16776565
i□□□-M3.0/400-3	3	3 AC 400 V	7.3	IP66	3.4	160 x 265 x 140	Standard I/O Application I/O	i shopping cart	16676941
i□□□-M4.0/400-3	4	3 AC 400 V	9.5	IP66	3.4	160 x 265 x 140	Standard I/O Application I/O	i shopping cart	16682502
i□□□-M5.5/400-3	5.5	3 AC 400 V	13	IP66	3.4	160 x 265 x 140	Standard I/O Application I/O	i shopping cart	16768199
i□□□-M7.5/400-3	7.5	3 AC 400 V	16.5	IP66	5.4	211 x 358 x 164	Standard I/O Application I/O		
i□□□-M11/400-3	11	3 AC 400 V	23.5	IP66	5.4	211 x 358 x 164	Standard I/O Application I/O		
i□□□-M15/400-3	15	3 AC 400 V	32	IP66	12.5	280 x 443 x 216	Standard I/O Application I/O		
i□□□-M18.5/400-3	18.5	3 AC 400 V	40	IP66	12.5	280 x 443 x 216	Standard I/O Application I/O		
i□□□-M22/400-3	22	3 AC 400 V	47	IP66	12.5	280 x 443 x 216	Standard I/O Application I/O		
i□□□-M30/400-3	30	3 AC 400 V	61	IP66	12.5	280 x 443 x 216	Standard I/O Application I/O		
i□□□-M37/400-3	37	3 AC 400 V	76	IP66	12.5	280 x 443 x 216	Standard I/O Application I/O		
i□□□-M45/400-3	45	3 AC 400 V	84	IP66	12.5	280 x 443 x 216	Standard I/O Application I/O		

□□□ Wildcard for product series (550 or 650)

i550/i650 motec for motor mounting – options



Communication

Diagnostics

USB connection
(USB-C)

Functional safety

Basic Safety - STO

Extended Safety

Connection

		Inverter with	
		Standard I/O	Application I/O
Mains connection	Han Q4/2 connector (male) for mains connection up to 5.5 kW (3 x 230/240 V); 11 kW (3 x 400 V)	✓	✓
	Han Q4/2 connector (female) for looping-through connection up to 5.5 kW (3 x 230/240 V); 11 kW (3 x 400 V)		
	Terminal connection from 7.5 kW (3 x 230/240 V); 15 kW (3 x 400 V)	✓	✓
I/Os	Standard I/O: 4 x digital input or 3 x digital input/1 x digital output (configurable) Connection via 2 x 5-pole M12 connector, A coded	✓	
	Application I/O: Limited IO-Link master functionality for easy data exchange between IO-Link sensors and actuators		
	4 x IO-Link port or 8 x digital input or		✓
	4 x digital input/4 x digital output (configurable) Connection via 4 x 5-pole M12 connector, A coded		

Communication

		Inverter with	
		Standard I/O	Application I/O
EtherCAT	Ethernet-based fieldbus system EtherCAT		
	Can be activated via parameterization Connection via 4-pole M12 connector, D coded	✓	✓
EtherNet/IP	Ethernet-based fieldbus system EtherNet/IP		
	Can be activated via parameterization Connection via 4-pole M12 connector, D coded	✓	✓
Modbus TCP	Ethernet-based fieldbus system Modbus TCP		
	Can be activated via parameterization Connection via 4-pole M12 connector, D coded	✓	✓
PROFINET	Ethernet-based fieldbus system PROFINET		
	Can be activated via parameterization Connection via 4-pole M12 connector, D coded	✓	✓

i550/i650 motec for motor mounting – options

Diagnostics

		Inverter with	
		Standard I/O	Application I/O
USB connection	Parameterization and diagnostics of the inverter Commissioning via USB connection with engineering tools	✓	✓

Functional safety

		Inverter with	
		Standard I/O	Application I/O
Basic Safety - STO	Functional safety function "Safe Torque Off (STO)" This function corresponds to a "Stop 0" according to EN 60204 Connection via 5-pole M12 connector, A coded	✓	✓
Extended Safety	Safe stop functions: Safe torque off (STO), Safe stop 1 (SS1) Auxiliary and maintenance functions: Safe Muting (MUT) Safety bus: CIP Safety		✓

i550/i650 motec for motor mounting – accessories

Connection

		Info	ID
Cable gland set	Membrane set, 5 x M12 cable glands to avoid condensation water	 	13584561

System cables

Mains cables	See brochure "Accessories for frequency and servo inverters"
Motor cables	See brochure "Accessories for frequency and servo inverters"

Power supply units

24 V power supply units	See brochure "Accessories for frequency and servo inverters"
48 V power supply units	See brochure "Accessories for frequency and servo inverters"



Accessories

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

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

Info on accessories can be found on the Internet and in the brochure "Accessories for frequency inverters and servo inverters".



