Servo inverters

0.37 ... 110 kW


95-KM1.2

Lenze servo inverters – powerful, compact, safe

The servo inverters set new standards in terms of precision and dynamics thanks to their innovative control technology. Pre-designed drive solutions, consisting of geared motors and servo inverters, ensure time savings in engineering and flexibility in production.

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

- Winders
- Textile machines
- Packaging technology
- Forming technology
- And many more

Features

- Operation of synchronous and asynchronous motors, linear and torque motors
- Integrated One Cable Technology (OCT)
- Highly dynamic control algorithms
- Integrated safety functions
- DC-bus connection with regenerative feedback mode
- PLC Open, IEC 61131-3, CiA402

The benefits for you

- Parameterizable technology applications (FAST) for fast configuration of simple and special requirements in the machine
- Easy commissioning and adjustment thanks to guided commissioning routines
- Auto-tuning for optimum motor adaptation
- Optimum controller setting in a short time without expert knowledge
- Provision of real-time data for cloud-based solutions.

Features at a glance

Servo drives

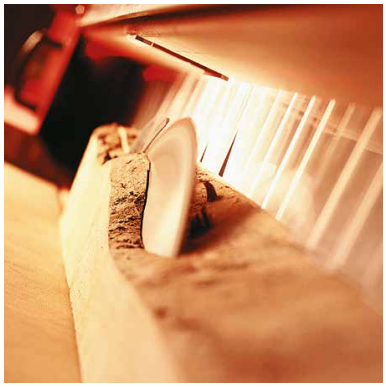
Actuators are widely used in servo technology. The basis for this in our product portfolio is the i750 cabinet servo inverter with single and double axes in the power range 1.1 ... 15 kW.

In the power range 0.37 ...110, the i950 cabinet is available in parallel as an intelligent servo inverter. It is designed for easy coupling to the i750 cabinet in the high power range.

Control performance

Our claim is that the best machines in the world run with Lenze. For this reason, we deal intensively with the machine processes and kinematics of modern machine tasks. Our servo inverters set new standards in integrated control technology.

Functional safety



The safety functions integrated in the inverter are certified in accordance with EN ISO 13849-1.

Depending on the requirements of the machine, three different versions of the servo inverters with integrated safety functions can be used.

Technology application

The i950 cabinet combines state-of-the-art servo technology with the requirements of future-oriented machine automation. In addition to outstanding servo characteristics, the i950 cabinet technology applications (TA) have been implemented. The use of these software modules saves time and money when implementing machine tasks.

Ready for the cloud

Modern production systems are based on comprehensive networking and an extensive exchange of important user data between production and management. At the same time, more networked machines mean more complexity - and therefore higher demands on processes and technologies. Knowledge of the merging of the IT and OT worlds has become a prerequisite for success.

Programmable

Pre-tested, documented and reusable software modules lead to better quality and optimized resource management. This allows you to easily reuse, expand and maintain software modules - efficiently, reliably and securely. In addition, standards such as PLCopen ensure the openness of our Lenze system.

Scaled portfolio for machines

Competitiveness in mechanical engineering is becoming increasingly challenging due to rising requirements in terms of energy efficiency, machine intelligence, and market needs, along with a shortage of skilled personnel and cost pressure. The i750 cabinet and i950 cabinet servo inverters meet 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, servo inverters and motors - energy-efficiently and sustainably. You can easily call up a lot of information online when selecting a product:

- Use the EASY Product Finder to configure your required version of the servo inverters 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 ℹ.

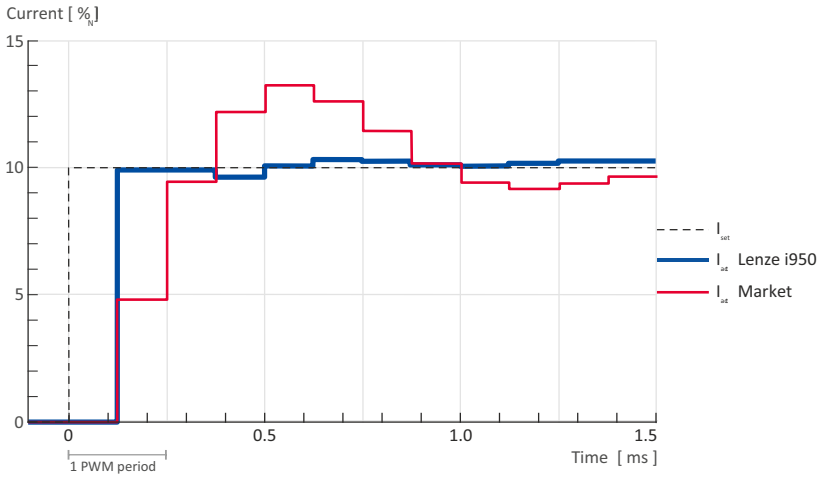
Control performance

Increase the cycle rate of the machine by up to 20 % and improve the quality of the machine process at the same time.

Our claim is that the best machines in the world run with Lenze. For this reason, we deal intensively with the machine processes and kinematics of modern machine tasks and help to optimize the entire control path of the drive axis with the underlying mechanics in terms of control technology. With our servo inverters, we are setting new standards in integrated control technology.

Highlights

- Fastest response time thanks to dead time-optimized hardware and software:
  - Current control: 62.5 µs, position control: 62.5 µs
- Automatic controller setting
- Extremely fast correction of disturbance variables within the controlled system
- Intelligent vibration compensation process for suppressing resonance points in the machine
- High dynamics thanks to patented current and position detection



i750 cabinet

The i750 cabinet servo inverter offers everything for precise and dynamic motion control in complex multi-axis applications. Extended safety functions and One Cable Technology reduce wiring and control complexity. Intelligent data-based functions and IIoT enable innovative motion control concepts.

As a single or double axis, the i750 cabinet with matching supplier fits seamlessly into the Lenze automation system. The strengths can be seen in numerous applications in a network with Lenze controllers and the FAST Application Software Toolbox. The scalable range of hardware, software, engineering services, and digital services supports the realization of end-to-end automation systems from the cloud to the drive shaft.

As a power extension of the i750 cabinet servo inverter in the range of 22 ... 110 kW, the i950 cabinet servo inverter can be used.

Mains connection/power range

3ph AC 400 V (DC supply via suppliers)	1.1 ... 15 kW

Highlights

- Integrated DC-bus connection
- Small overall width from 50 mm for the double axis
- Axis modules capable of multiple overloads for peak output currents between 5 and 64 A, double axes up to 32 A
- One Cable Technology (OCT)
- Integrated safety technology with a wide range of functions, complies with up to SIL 3/PL e Cat. 4
- Autotuning function for quick and easy controller adjustment

i950 cabinet

The intelligent i950 cabinet servo inverter can be easily integrated into modular machine solutions on the basis of prepared technology applications - parameterizing instead of programming.

The same architecture, the same engineering and the use of the same application software, based on decades of application experience, dissolve the boundaries between centralized and decentralized motion control. Our FAST application software toolbox becomes universally usable. If required, the pre-designed software modules can be easily customized and extended.

In addition, the i950 cabinet servo inverter serves as a power extension to the i700 cabinet servo inverter in the Lenze automation system in the range of 22 ... 110 kW.

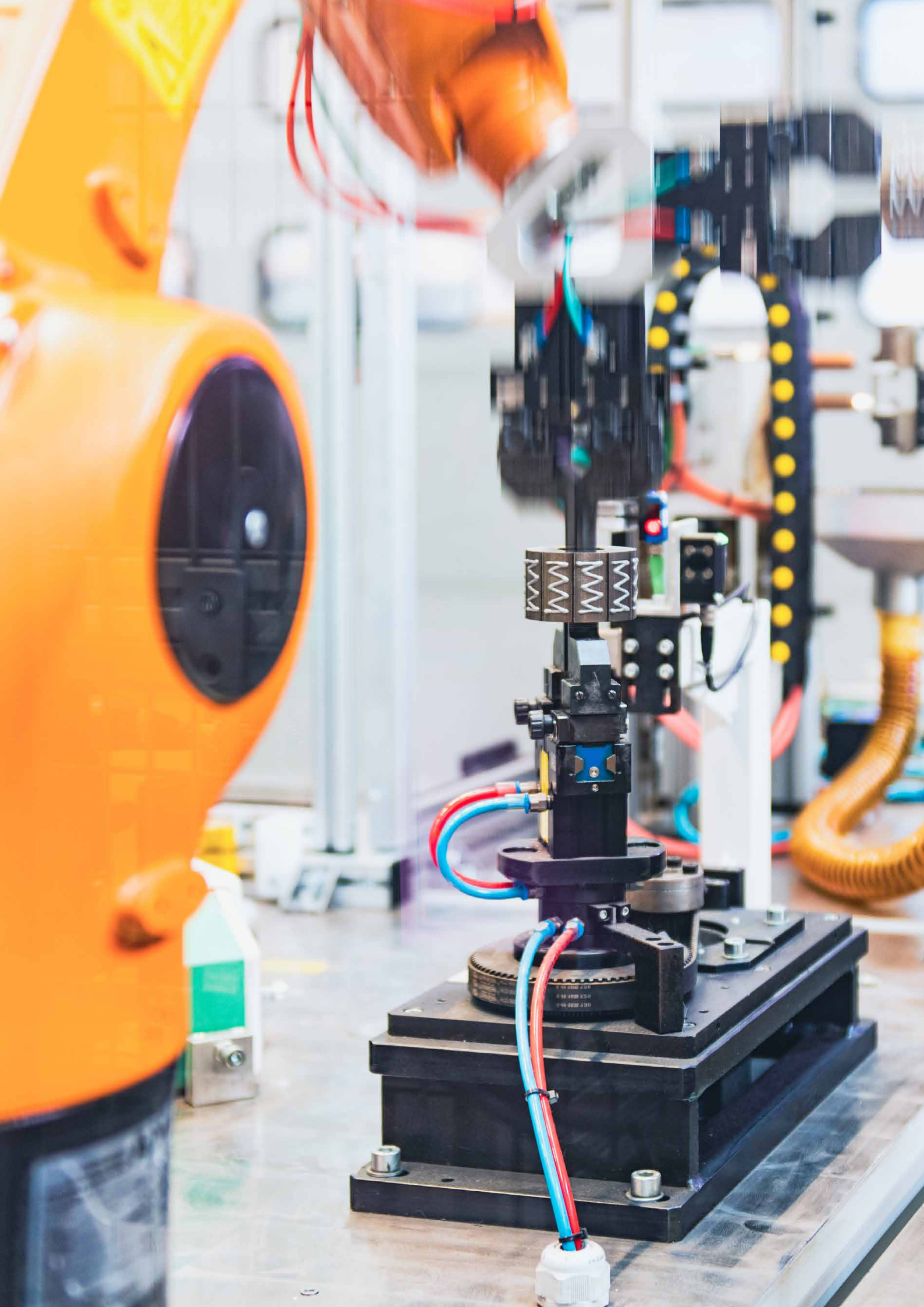
The requirements of the Ecodesign Directive are met.

Mains connection/power range

1ph AC 230 V	0.37 ... 1.5 kW
3ph AC 230 V	0.37 ... 5.5 kW
3ph AC 400 V	0.55 ... 110 kW

Highlights

- Prepared technology applications, e.g. table positioning, electronic gearbox, winder
- One Cable Technology (OCT)
- Modular scalability for feedback system and fieldbus connections
- Autotuning function for quick and easy controller adjustment
- Integrated safety technology with a wide range of functions, complies with up to SIL 3/PL e Cat. 4



Technical data

	i750 cabinet	i950 cabinet
		
Design/mounting	Control cabinet	Control cabinet
Degree of protection	IP20	IP20

Mains connection/power range

	i750 cabinet	i950 cabinet
1ph AC 230 V		0.37 ... 1.5 kW
3ph AC 230 V		0.37 ... 5.5 kW
3ph AC 400 V		0.55 ... 110 kW
3ph AC 400 V (DC supply via suppliers)	1.1 ... 15 kW	

Market approvals/environment

	i750 cabinet	i950 cabinet
CE	yes	yes
UKCA	yes	yes
UL	yes	yes
CSA	yes	yes
CCC	yes	yes
RoHs	yes	yes
Energy efficiency	Class IE2	Class IE2
Degree of pollution	2	2
Vibration resistance during operation	up to 1 g	up to 1 g
Insulation resistance	Category III	Category III

Control connections

	i750 cabinet	i950 cabinet
Digital inputs	2	4 (optional: 5 / 4)
Digital outputs		(optional: 5 / 2)
Analog inputs		1 (optional 0 / 1)
Analog outputs		(optional (0 / 1)

Protective measures

	i750 cabinet	i950 cabinet
Earth-fault protected	yes	yes
Short-circuit-proof	yes	yes
Overvoltage-proof	yes	yes
Motor stalling protection	yes	yes
Motor overtemperature	with PT 1000, I^2xt	with PT 1000, I^2xt

	i750 cabinet	i950 cabinet
		
Design/mounting	Control cabinet	Control cabinet
Degree of protection	IP20	IP20

Communication

	i750 cabinet	i950 cabinet
CANopen		yes
EtherCAT	yes	yes
EtherNet/IP		yes
PROFINET		yes

Feedback

	i750 cabinet	i950 cabinet
HIPERFACE DSL® absolute value encoder (One Cable Technology OCT)	yes	yes
Resolver	yes	yes
HIPERFACE® SinCos absolute value encoder	yes	yes
Endat (V2.1&V2.2) SinCos absolute value encoder	in preparation	yes
SSI absolute value encoder	yes	yes
SSI SinCos absolute value encoder	yes	yes
TTL incremental encoder	yes	yes
HTL incremental encoder		yes

Cooling

	i750 cabinet	i950 cabinet
Operation (EN 60721-3-3)	3K3 (-10 ... +55 °C)	3K3 (-10 ... +55 °C)
Derating	2.5 % / °C above 40 °C	2.5 % / °C above 45 °C
Storage (EN 60721-3-1)	1K3 (-25 ... +60 °C)	1K3 (-25 ... +60 °C)
Transport (EN60721-3-2)	2K3 (-25 ... +70 °C)	2K3 (-25 ... +70 °C)

Operation on public supply systems

	i750 cabinet	i950 cabinet
Device below 1 kW (EN IEC 61000-3-2)	-	With Mains choke
Devices above 1 kW up to 16 A (EN IEC 61000-3-2)	yes	yes
Devices above 16 A (EN IEC 61000-3-2)	With mains choke	With Mains choke

Motor cable lengths

	i750 cabinet	i950 cabinet
EMC category C1		
EMC category C2	Depending on the number of axes	max. 20 m above this with filter

Fusing

	i750 cabinet	i950 cabinet
Fuse characteristic	gG/gl or gRL	gG/gl or gRL
Circuit breaker characteristic	C	B or C
Earth-leakage circuit breaker		Type B

	i750 cabinet	i950 cabinet
		
Design/mounting	Control cabinet	Control cabinet
Degree of protection	IP20	IP20

Functional safety

Stop functions

	i750 cabinet	i950 cabinet
Safe torque off (STO)	yes	yes
Safe stop 1 (SS1)	yes	yes
Safe stop 2 (SS2)	yes	yes
Safe stop emergency (SSE)	yes	yes
Safe operational stop (SOS)	yes	yes
Safe brake control (SBC)	yes	yes
Cascading STO (CAS)		yes

Monitoring functions

	i750 cabinet	i950 cabinet
Safe maximum speed (SMS)	yes	yes
Safely limited speed (SLS)	yes	yes
Safe speed monitoring (SSM)	yes	yes
Safely limited increment (SLI)	yes	yes
Safe direction (SDI)	yes	yes
Safely limited position (SLP)	yes	yes
Safe position-dependent speed (PDSS)	yes	yes
Safe cam (SCA)	yes	yes

Motor controls

Motor controls

	i750 cabinet	i950 cabinet
V/f characteristic control	yes	yes
V/f characteristic control with feedback	yes	yes
Servo control for asynchronous motors	yes	yes
Servo control for synchronous motors	yes	yes
Vector control for asynchronous motors	yes	yes
Sensorless control for synchronous motors	yes	yes

Additional functions

	i750 cabinet	i950 cabinet
Auto-tuning	yes	yes
Wiring check	yes	yes
Torque control	yes	yes
Skip frequencies	yes	yes
Motor monitoring	yes	yes
Oscilloscope	yes	yes
Access protection for parameters	yes	yes

Technology applications

	i750 cabinet	i950 cabinet
Speed Control	With c430, c520 or c550 controller and FAST	yes
Table Positioning	With c430, c520 or c550 controller and FAST	yes
Electronic Gearbox	With c430, c520 or c550 controller and FAST	yes
Sync and Correction	With c430, c520 or c550 controller and FAST	yes
Winder Dancer	With c430, c520 or c550 controller and FAST	yes
Winder Tension	With c430, c520 or c550 controller and FAST	yes
CiA 402 advanced	With c430, c520 or c550 controller and FAST	yes
AC Drive Profile	With c430, c520 or c550 controller and FAST	yes

Product selection

i750 cabinet servo inverter

3-phase mains connection 400 V single axes

	P_{rated}	V_{mains}	I_{rated}	Degree of protection	m	H x W x D	Material number		
	[kW]	[V]	[A]		[kg]	[mm]			
i750-C1.1/400-3	1.1	3 AC 400 V	2.5	IP20	2.7	350 x 50 x 261	16855464		
i750-C2.2/400-3	2.2	3 AC 400 V	5	IP20	2.7	350 x 50 x 261	16854642		
i750-C4/400-3	4	3 AC 400 V	10	IP20	2.7	350 x 50 x 261	16854470		
i750-C7.5/400-3	7.5	3 AC 400 V	16	IP20	5.2	350 x 100 x 261	16862089		
i750-C11/400-3	11	3 AC 400 V	24	IP20	5.2	350 x 100 x 261	16862132		
i750-C15/400-3	15	3 AC 400 V	32	IP20	5.2	350 x 100 x 261	16862134		

3-phase mains connection 400 V double axes

	P_{rated}	V_{mains}	I_{rated}	Degree of protection	m	H x W x D	Material number		
	[kW]	[V]	[A]		[kg]	[mm]			
i750-C1.1/400-3/2	1.1	3 AC 400 V	2.5	IP20	2.9	350 x 50 x 261	16855463		
i750-C2.2/400-3/2	2.2	3 AC 400 V	5	IP20	2.9	350 x 50 x 261	16854643		
i750-C4/400-3/2	4	3 AC 400 V	10	IP20	5.2	350 x 100 x 261	16857399		
i750-C7.5/400-3/2	7.5	3 AC 400 V	16	IP20	5.2	350 x 100 x 261	16862091		

Power supply modules

	P_{rated}	V_{mains}	I_{rated}	Degree of protection	m	H x W x D	Material number		
	[kW]	[V]	[A]		[kg]	[mm]			
i700-CV30/400-3	15.4	3 AC 400 V	30	IP20	2.5	350 x 50 x 261	13498841		
i700-CV60/400-3	30.9	3 AC 400 V	60	IP20	5.3	350 x 100 x 261	13439538		

The i750 cabinet products specified here are equipped with feedback evaluation for the digital absolute value encoder (One Cable Technology OCT). The fieldbuses always communicate via EtherCAT. Alternatively available product versions can be found on the Internet.

Options – i750 cabinet (1.1 … 15 kW)

Axis modules


Single axis


Double axis


Terminal connection

Communication

EtherCAT

Functional safety


Basic Safety STO


Advanced Safety


Extended Safety

Feedback


Resolver


HIPERFACE® Sin-Cos absolute value encoder


TTL incremental encoder

Axis modules

Single axis	Axis module for a motor	
Double axis	Axis module for two motors	

Communication

EtherCAT	Ethernet-based fieldbus system EtherCAT Connection via standardized RJ45 connectors	Included as standard

Functional safety

Basic Safety STO	Safe torque off (STO)	
Advanced Safety	Advanced Safety L: Stop functions: Safe torque off (STO), safe stop 1 (SS1), safe brake control (SBC)	
Extended Safety	Extended Safety L: Stop functions: Safe torque off (STO), safe stop 1 (SS1), safe stop 2 (SS2), safe stop emergency (SSE), safe operational stop (SOS), safe brake control (SBC) Monitoring functions: Safe maximum speed (SMS), safely limited speed (SLS), safe speed monitoring (SSM), safely limited increment (SLI), safe direction (SDI), safely limited position (SLP), safe position-dependent speed (PDSS), safe cam (SCA)	

Feedback

HIPERFACE DSL® absolute value encoder (One Cable Technology OCT)	One Cable Technology (OCT) is supported via the open motor feedback protocol HIPERFACE DSL®.	Included as standard
Resolver	Module for resolver feedback	
HIPERFACE® SinCos absolute value encoder	Module for feedback via HIPERFACE SinCos absolute value encoder	
TTL incremental encoder	Module for incremental encoder feedback	

Power supply modules

Power supply modules

		Material number
Power supply modules	30 A power supply module for the axes	13498841
	60 A power supply module for the axes	13439538
Regenerative modules	13 kW r750 regenerative module feeds energy back into the mains	13603882
	26 kW r750 regenerative module feeds energy back into the mains	13603883

Accessories – i750 cabinet axis modules (1.1 ... 15 kW)

System cables

		Material number
OCT motor cables	See brochure	
Motor cables	See brochure	
Blower cables	See brochure	
Feedback cables	See brochure	
Communication cables	0.25 m Ethernet cable	13426097
	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

Power supply units

		Material number
24 V power supply units	See brochure	
48 V power supply units	See brochure	

Accessories – power supply modules

Connection

		Material number
Mounting kit	For 30 A power supply module	13402984
	For 60 A power supply module	13402985

RFI and mains filters

		Material number
RFI and mains filters I0FAE	See brochure	

Mains chokes

		Material number
Mains chokes EZAELN3	See brochure	

Braking operation and brake control

		Material number
Brake resistors	See brochure	

i950 cabinet servo inverter

1-phase mains connection 230 V without integrated RFI filter

	P_{rated}	V_{mains}	I_{rated}	Degree of protection	m	H x W x D	Material number
	[kW]	[V]	[A]		[kg]	[mm]	
i950-C0.37/230-2	0.37	1 AC 230 V	2.4	IP20	1.6	250 x 60 x 187	16432616
i950-C0.55/230-2	0.55	1 AC 230 V	3.2	IP20	1.6	250 x 60 x 187	16430047
i950-C0.75/230-2	0.75	1 AC 230 V	4.2	IP20	1.6	250 x 60 x 187	16430046
i950-C1.5/230-2	1.5	1 AC 230 V	7	IP20	1.6	250 x 60 x 187	16430043

3-phase mains connection 230 V without integrated RFI filter

	P_{rated}	V_{mains}	I_{rated}	Degree of protection	m	H x W x D	Material number
	[kW]	[V]	[A]		[kg]	[mm]	
i950-C0.37/230-2	0.37	3 AC 230 V	2.4	IP20	1.6	250 x 60 x 187	16432616
i950-C0.55/230-2	0.55	3 AC 230 V	3.2	IP20	1.6	250 x 60 x 187	16430047
i950-C0.75/230-2	0.75	3 AC 230 V	4.2	IP20	1.6	250 x 60 x 187	16430046
i950-C1.5/230-2	1.5	3 AC 230 V	7	IP20	1.6	250 x 60 x 187	16430043
i950-C2.2/230-3	2.2	3 AC 230 V	9.6	IP20	1.6	250 x 60 x 187	16428806
i950-C4.0/230-3	4	3 AC 230 V	16.5	IP20	3.9	276 x 120 x 187	16438949
i950-C5.5/230-3	5.5	3 AC 230 V	23	IP20	3.9	276 x 120 x 187	16438953

3-phase mains connection 400 V with integrated RFI filter

	P_{rated}	V_{mains}	I_{rated}	Degree of protection	m	H x W x D	Material number
	[kW]	[V]	[A]		[kg]	[mm]	
i950-C0.55/400-3	0.55	3 AC 400 V	1.8	IP20	1.6	250 x 60 x 187	16269962
i950-C0.75/400-3	0.75	3 AC 400 V	2.4	IP20	1.6	250 x 60 x 187	16271610
i950-C2.2/400-3	2.2	3 AC 400 V	5.6	IP20	1.6	250 x 60 x 187	16271611
i950-C4.0/400-3	4	3 AC 400 V	9.5	IP20	1.6	250 x 60 x 187	16271612
i950-C7.5/400-3	7.5	3 AC 400 V	16.5	IP20	3.9	276 x 120 x 187	16271613
i950-C11/400-3	11	3 AC 400 V	23.5	IP20	3.9	276 x 120 x 187	16271614
i950-C15/400-3	15	3 AC 400 V	32	IP20	3.9	276 x 120 x 187	16271615
i950-C22/400-3	22	3 AC 400 V	47	IP20	10.7	347 x 204 x 253	16096386
i950-C30/400-3	30	3 AC 400 V	61	IP20	16.7	450 x 250 x 245	16096387
i950-C45/400-3	45	3 AC 400 V	89	IP20	16.7	450 x 250 x 245	16096388
i950-C55/400-3	55	3 AC 400 V	110	IP20	24	536 x 250 x 281	16096389
i950-C75/400-3	75	3 AC 400 V	150	IP20	24	536 x 250 x 281	16096390
i950-C90/400-3	90	3 AC 400 V	180	IP20	35.6	685 x 258 x 321	16163564
i950-C110/400-3	110	3 AC 400 V	212	IP20	35.6	685 x 258 x 321	16163521

A mains choke is mandatory from 22 kW.

The i950 cabinet products specified here are equipped with feedback evaluation for the digital absolute value encoder (One Cable Technology OCT), from 22 kW with resolver evaluation. The standard communication is always onboard EtherCAT. Alternatively available product versions can be found on the Internet.

Options – i950 cabinet (0.37 ... 110 kW)

Connections


Terminal connection


Digital I/O


Extended I/O


Motor connection

Communication


CANopen


EtherCAT


Ethernet/IP


PROFINET

Functional safety


Basic Safety STO


Extended Safety

Feedback


Resolver


Multi-encoder module


HTL encoder (Extended I/O)

FAST Application Software


Application Credit

Connection

Digital I/O	Extension module 5 x digital input and 5 x digital output
Extended I/O	Extension module with 8400 TopLine functions 4 x digital input and 2 x digital output, 1 x analog input and 1 x analog output 4 x digital input can be used for HTL incremental encoders.

Communication

CANopen	CANopen communication protocol Connection via screw 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
PROFINET	Ethernet-based fieldbus system PROFINET Connection via standardized RJ45 connectors

Functional safety

Basic Safety STO	Safe torque off (STO)
Extended Safety	Extended Safety LT functions: Stop functions: Safe torque off (STO), safe stop 1 (SS1), safe stop 2 (SS2), safe stop emergency (SSE), safe operational stop (SOS), safe brake control (SBC), cascading STO (CAS) Monitoring functions: Safe maximum speed (SMS), safely limited speed (SLS), safe speed monitoring (SSM), safely limited increment (SLI), safe direction (SDI), safely limited position (SLP), safe position-dependent speed (PDSS), safe cam (SCA)

Feedback

HIPERFACE DSL® absolute value encoder (One Cable Technology OCT)	One Cable Technology (OCT) is supported via the open motor feedback protocol HIPERFACE DSL®.	Series up to 22 kW
Resolver	Multi-encoder module, set to resolver	
HIPERFACE® SinCos absolute value encoder	Multi-encoder module, set to HIPERFACE SinCos absolute value encoder	
Endat SinCos absolute value encoder	Multi-encoder module, set to Endat SinCos absolute value encoder (version 2.1)	
SSI absolute value encoder	Multi-encoder module, set to SSI absolute value encoder	
SSI SinCos absolute value encoder	Multi-encoder module, set to SSI SinCos absolute value encoder	
TTL incremental encoder	Multi-encoder module, set to TTL incremental encoder	
HTL incremental encoder	Extended I/O, set to HTL incremental encoder	

FAST Application Software

Application Credit	50 ... 4000 Credit

Accessories – i950 cabinet (0.37 ... 110 kW)

Connection

		Material number
Shield mounting	1 x motor shield plate incl. fixing material 0.25 ... 3 kW	13560530
	5 x motor shield plate incl. fixing material 0.25 ... 3 kW	13560529
	1 x motor shield plate incl. fixing material 4 ... 5.5 kW	13481481
	5 x motor shield plate incl. fixing material 4 ... 5.5 kW	13481482
	1 x motor shield plate incl. fixing material 7.5 ... 11 kW	13481483
	5 x motor shield plate incl. fixing material 7.5 ... 11 kW	13481484
	10 x fixing material for integrated motor shield plate 15 ... 22 kW	13433061
	10 x fixing material for integrated motor shield plate 30 ... 75 kW	13433062

System cables

		Material number
OCT motor cables	See brochure	
Motor cables	See brochure	
Blower cables	See brochure	
Feedback cables	See brochure	
	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

RFI and mains filters

		Material number
RFI and mains filters I0FAE	See brochure	

Mains chokes

		Material number
Mains chokes EZAELN3	See brochure	

Braking operation and brake control

		Material number
Brake resistors	See brochure	

Power supply units

		Material number
24 V power supply units	See brochure	
48 V power supply units	See brochure	

Electrical protection devices and busbars

		Material number
Fuses	See brochure	
Fuse holders	See brochure	
Busbars	See brochure	

Power supply modules

		Material number
Regenerative modules	13 kW r750 regenerative module feeds energy back into the mains	13603882
	26 kW r750 regenerative module feeds energy back into the mains	13603883


Service

Accessories

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

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

For information on accessories, refer to the Accessories brochure.