8200 vector
frequency inverter

0.25 ... 90.0 kW



Lenze Global Drive – Created as a system



Lenze

8200 vector | created as a system

A universal product range offering all you need for user-friendly operation, diagnostics and communication. Tailored to meet the needs of day-to-day operations, the 8200 vector device range comes complete with all the system components you have come to expect from us: expert advice, training, support, service and much more – a sound investment.



Benefit | universal, modular, cost-effective

The 8200 vector frequency inverter combines optimum power with high drive performance in a single universal system. The modular product range can solve your individual drive tasks – at a very reasonable price.

Always the same, whatever the size
We want you to feel comfortable with the 8200 vector – across the entire power range from 0.25 to 90 kW. With its vector control, the 8200 frequency inverter not only offers the best drive features, its various ratings share the same functions and are controlled and operated in exactly the same way. Once you can use one, you can use them all!

No more than you need
You only need to buy what you actually need. As it is a modular system, the 8200 vector can be tailored to meet your individual requirements. So why pay more?





Space is money
Control cabinets cost money and space. Increasingly compact units which are also suitable for distributed use in machine modules are becoming the norm. Compact frequency inverters and accessories are a significant factor in optimizing the use of control cabinet space. Less really is more!

Waste no time in achieving your goals
Speed, simplicity and safety are essential. Ease of commissioning is ensured by proven software tools, predefined basic configurations and the detachable keypad with plain text display. You can find answers to your questions quickly and easily in the clear and user-friendly device documentation. We have a DOCcert from the German Technical Inspectorate (TÜV) to prove this. After all, who has time to waste looking for things?

In use all over the world
Our 8200 vector can be used wherever you like – not only in terms of whichever machine you choose, but also whichever country you choose. The wide input voltage range of up to 500 V (+10%) means that you don't need to give a second thought to the country of use – and it goes without saying that the 8200 vector range is certified to international standards.

Technology | powerful, versatile, reliable

Drive features

- Power range
  0.25 kW...7.5 kW 230 V/240 V (+10 %)
  0.55 kW...90 kW 400 V/500 V (+10 %)
- Overload capacity 180% rated torque for 60 seconds from 15 kW upwards, additional 210 % rated torque for 3 seconds
- Operating modes: V/f linear, V/f quadratic, vector control, torque selection
- Chopper frequency 1, 2, 4, 8, 16 kHz
- Output frequency up to 650 Hz

Input and output terminals

- Up to 2 analog inputs, bipolar as an option (0-10 V, -10 V...+10 V, 0-20 mA, 4-20 mA; resolution 10 bits)
- Up to 2 analog outputs (0-10 V, 0-20 mA, 4-20 mA; resolution 10 bits)
- Up to 6 isolated digital inputs with logic that can be switched
- Up to 2 digital outputs and one frequency output
- Up to 2 relay outputs (also for direct 240 V AC mains connection)
- Evaluation option for incremental encoders

Fieldbus communication

- RS232/485 serial interfaces, optical fibre version available as an option
- Bus connection for most common fieldbus systems (CAN, PROFIBUS, INTERBUS, DeviceNet, CANopen, AS-Interface)

Protection functions

- Short-circuit-proof, earth-fault-proof during operation
- Adjustable current limitation, overcurrent warnings and fault indications
- Overvoltage and undervoltage protection
- Frequency inverter overtemperature warnings and fault indications
- PTC or thermal contact input and I^2t monitoring for motor protection
- Motor phase failure detection
- Integrated brake transistor up to 11 kW
- Optionally integrated radio interference suppressors

Standard functions

- PID controller
- Flying restart circuit on coasting motors
- Slip and mains voltage compensation
- Load loss/V-belt monitoring
- Smooth start/stop along S ramps
- DC braking
- Motor potentiometer
- 4 freely parameterisable parameter sets (can be switched online)

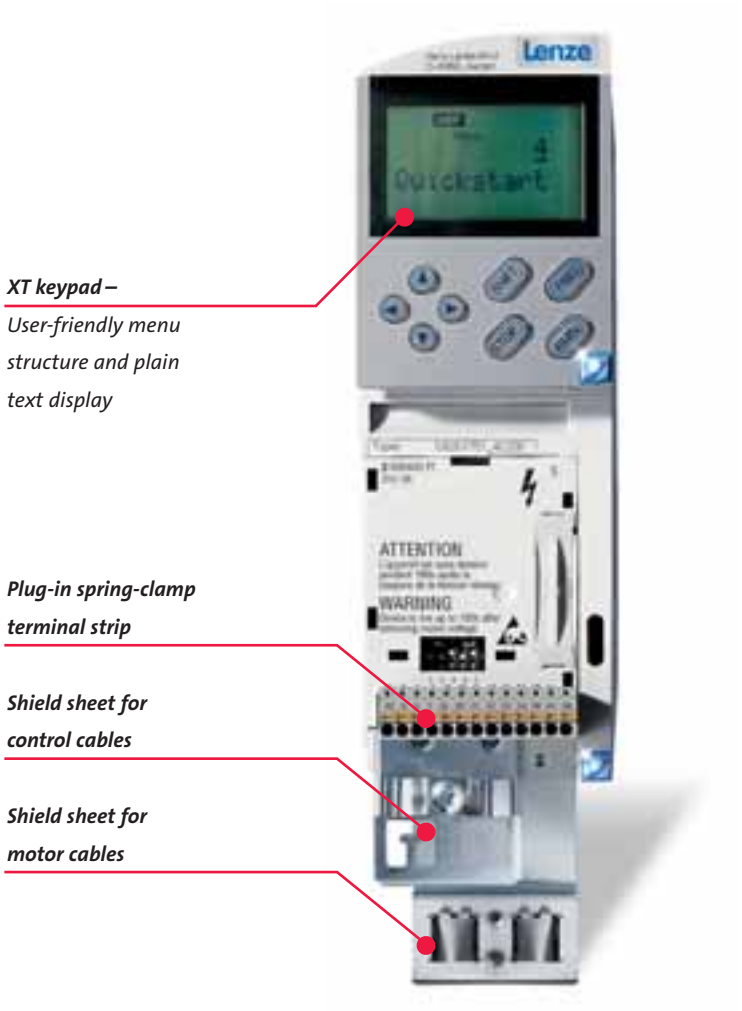
Control and operation

- XT keypad with plain text display and menu structure
- Copy function with keypad for transferring inverter settings
- Password protection
- Global Drive Control easy control and parameterisation software (download via Internet)

- Tension-spring terminals for cable cross-sections up to 1.5 mm^2 for all function modules with plug-in terminals

Approvals

- UL, cUL, CE



A partnership | let us help you solve your drive task

Our partnership approach means that we can provide you with drive and automation solutions directly and from a single source. We can even tailor every last detail to meet your requirements. That’s why we developed the 8200 vector system with automation components and accessories to enable you to get the most out of your system.

So you want to integrate frequency inverters into the control world of your factory? We can provide function and communication modules which can be simply plugged into the frequency inverter. What's more, we have made sure that the 8200 vector can communicate with most fieldbuses currently on the market. We also offer bus-compatible components such as HMIs, I/O terminal extensions and Lenze's DrivePLC drive controller. We are your one-stop-shop for automation. Why waste time when you can rely on the expertise of a single drive and automation specialist?







A single inverter for all applications. Accessories such as mains chokes, RFI filters, motor filters or brake resistors can be added to expand application options. Numerous applications can be solved, with short or long motor cables, different radio interference levels, mains systems – the list is endless. You don't even need to worry if your control cabinet is too narrow or too warm – the 8200 vector is available in a push-through version and as a cold plate version for use with a heat sink of your choice.

So what about the motors which will eventually be driven by the frequency inverters? We can provide these too – tailor-made for your requirements and in any combination, with high-quality gearboxes manufactured in-house. What are you waiting for? Give us a call!



It's good to know | why we are there for you



"Our customers come first. Customer satisfaction is what motivates us. By thinking in terms of how we can add value for our customers we can increase productivity through reliability."





"The world is our marketplace. We develop and manufacture internationally. Wherever you are in the world, we are nearby."



"We will provide you with exactly what you need – perfectly co-ordinated products and solutions with the right functions for your machines and installations. That is what we mean by 'quality'."



"Take advantage of our wealth of expertise. For more than 50 years we have been gathering experience in various fields and implementing it consistently and rigorously in our products, motion functions and preprepared solutions for industry."



"We identify with your targets and strive towards a long-term partnership which benefits both sides. Our competent support and consultation process means that we can provide you with tailor-made solutions. We are there for you and can offer assistance in all of the key processes."

You can rely on our service. Expert advice is available 24 hours a day, 365 days a year, in more than 30 countries via our international helpline: 008000 24 Hours (008000 2446877).

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