

# 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<sup>2</sup> for all function modules with plug-in terminals

### Approvals

- ▶ UL, cUL, CE

