



***Global Drive***

*8200 frequency inverters*

*0.37 – 90 kW*

# Global Drive

## 8200 frequency inverter

Whatever you expect from a modern drive controller, the mid-performance 8200 frequency inverter offers these features as standard:

- Excellent drive features
- Market-oriented functions
- Compact design
- Easy operation and assembly

Mid-performance 8200 frequency inverters are applicable in various industries over the power range from 0.37 kW to 90 kW. Easy and universal application results from the following product features:

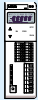
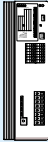
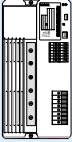
- Safe operation because of good torque characteristics  
FTC technology (flux torque control) ensures safe operation even with changing loads or difficult starting conditions because of the 150% rated current.

- Reduced complexity  
Standard functions such as motor potentiometer, flying-restart circuit, DC brake, and relay output ensure a wide range of application. For powers higher than 15 kW, the inverters are equipped with an additional input for monitoring the motor temperature and another relay output.
- Minimum space requirement  
The inverters can be directly connected to each other because of the compact cassette design. This makes it possible to use available space fully.
- Ready to operation  
8200 frequency inverters are factory set to a matching Lenze three-phase AC motor. If necessary, the inverters can be adapted to your application via the attachable LCD operating module.



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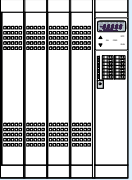
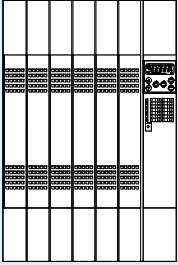
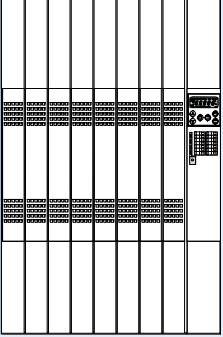
## Technical specifications of the 8200 frequency inverters

Technical data												
	8201	8202	8203	8204	8211	8212	8213	8214	8215	8216	8217	8218
Type	8201	8202	8203	8204	8211	8212	8213	8214	8215	8216	8217	8218
Rated motor power [kW] at $I_{max} = 1.5 \cdot I_{rated}$	0.37	0.75	1.50	2.20	0.75	1.50	2.20	3.0	4.0	5.5	7.5	11.0
Rated output current [A] at $I_{max} = 1.5 \cdot I_{rated}$	2.6	4.0	7.0	9.5	2.2	3.9	5.5	7.0	9.4	13.0	16.5	23.5
Rated motor power [kW] at $I_{max} = 1.2 \cdot I_{rated}$	-	-	-	-	1.1	1.5	3.0	3.0	5.5	5.5	11.0	11.0
Rated output current [A] at $I_{max} = 1.2 \cdot I_{rated}$	-	-	-	-	3.0	3.9	7.3	7.3	13.0	13.0	23.5	23.5
Mains voltage [V]	1 x 190...260 ± 0 %				3 x 320...510 ± 0 % *							
Dimensions (H x W x D) [mm]	180x 65x 150	180x 65x 190					250x 85x 200					250x 125x 200
Weight [kg]	1.0	1.3	2.2		2.2			5.3				
Ambient temperature	0...40 °C											
Enclosure	IP20											
Approvals	CE, VDE											
Brake module Resistor	8251 brake module internally 70 Ohm				8252 brake module internally 270 Ohm				8253 brake module min. 47 Ohm			
Automation module RS 232/485 InterBus-S PROFIBUS-DP System bus CAN	With the following attachable modules Module 2102IB Module 2111IB Module 2131IB Module 2171IB											
Operation module	Attachable 8201BB operating module, which can also be used for parameter transfer											

\* Operation with 120 % overload only permissible with 3 x 320...440 V ± 0 %

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## Technical specifications of the 8200 frequency inverters

Technical data							
Type	8221	8222	8223	8224	8225	8226	8227
Rated motor power [kW] at $I_{max} = 1.5 \cdot I_{rated}$	15.0	22.0	30.0	45.0	55.0	75.0	90.0
Rated output current [A] at $I_{max} = 1.5 \cdot I_{rated}$	32.0	47.0	60.0	89.0	110.0	150.0	180.0
Rated motor power [kW] at $I_{max} = 1.2 \cdot I_{rated}$	22.0	30.0	37.5	55.0	75.0	90.0	110.0
Rated output current [A] at $I_{max} = 1.2 \cdot I_{rated}$	43.0	56.0	66.0	100.0	135.0	159.0	205.0
Mains voltage [V]	3 x 320...528 ± 0% *						
Dimensions (H x W x D) [mm]	350x 250x 250			510x 340x 285	591x 340x 285	680x 440x 285	
Weight [kg]	12.5			33.5	36.5	59.0	
Ambient temperature	0...40 °C						
Enclosure	IP20						
Approvals	CE, VDE, UL-approvals						
Brake module Resistor	9352 brake chopper, min. 18 Ohm						
Automation module RS 232/485 InterBus-S PROFIBUS-DP System bus CAN	With the following attachable modules Module 2102IB Module 2111IB Module 2131IB Module 2171IB						
Operation module	Attachable 8201BB operating module, which can also be used for parameter transfer						



# Global Drive

## 8200 frequency inverter - accessories

The 8200 frequency inverters solve various tasks and are applied in many different systems and industries. The following components are available to adapt the inverter to your application:

- Attachable LCD operating module  
For adaptation and display of parameters.
- Global Drive control  
Operating software for commissioning and individual configuration of the controller.
- Mains chokes  
Reduce mains currents and feedbacks and save energy.
- Adjusted mains and RFI filters  
To comply with the regulations and limit values.
- Motor chokes/sine filters  
Reduce capacitive leakage currents and for very long motor cables.
- Supply and regenerative modules  
Save energy in multi-axis and group drives.
- Brake modules with integrated brake resistors  
Economical alternative to recovery modules, especially for single drives.
- Brake choppers with external brake resistors.
- Attachable additional modules  
Extend the functions by e.g. PLC functions, PTC input, etc.



# Global Drive

## Automation

The Global Drive AC system supports all common bus systems. All known PC and PLC systems can be used as a host. Additional interface modules enable the control of the different drive components via bus systems. Global Drive systems also offer new, economic, and reliable solutions, e.g. via InterBus from the host to the component, and via system bus in the decentralized part of the system.

Networking in the Global Drive system:

- **InterBus-S**

For applications with high process accuracy and response the system can be connected to the InterBus-S. This attachable module is based on the DRIVECOM profile 21 and offers the following advantages:

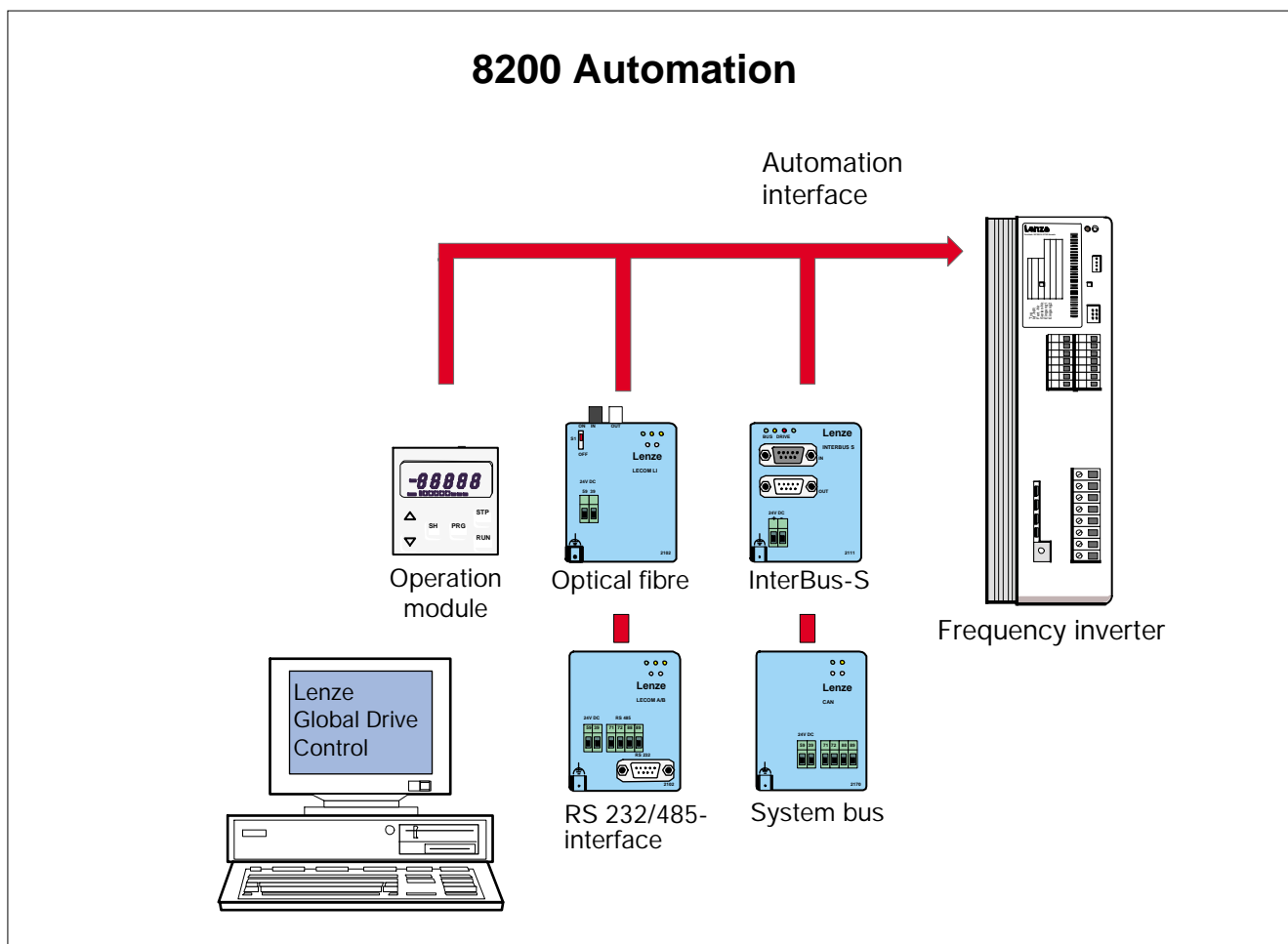
- up to 64 participants possible
- directly connectable to the long-distance bus
- cyclical process data within 0.5 ms to 7 ms

- **Interface RS 232/485**

Global Drive offers a ready-to-use concept for connection to all different types of PLC systems by means of the RS 232/485 interface. For this, a compact module is attached to the front of the controller. Networking is possible either via the standard RS 232/485 interface or an optical fibre.

- **System bus**

The very comfortable and economical connection via the system interface CAN, can be easily attached.



# Global Drive

## The drive system of the future

With the Lenze Global Drive you choose a mature AC drive system which grows with your requirements. This is because the system components are designed and matched to ensure a maximum of flexibility and convenience for all different applications.

All the components of the Global Drive are universal in power, operation and networking. 8200 frequency inverters and 9300 servo inverters with vector control enable mid-performance and high-performance applications in the power range from 0.37 kW to 90 kW.

Global Drive controllers are equipped with an integrated system bus; they can be used worldwide and support all common field-bus systems. Matched motors and accessories round off the system.

Global Drive components are produced on a large scale in Germany and are certified to DIN ISO 9001. Consistent quality management from the R&D department through production to sales and service ensures that the Global Drive is a unique system which offers the best solution for all kinds of demands of modern AC technology.

