E82EV251-2C

Lenze · 8200 vector

Lenze 8200 vector built-in vector-controlled frequency inverter, rated motor power 0.25 kW (4-pole asynchronous motor, 230 V class).

Hardware

Rated motor power: 0.25 kW typical (4-pole asynchronous motor)
Rated output current: 1.7 A nominal at 8 kHz switching frequency
Max. output current: 2.5 A for 60 s (periodic load change cycle)
Output frequency: 0...650 Hz
Switching frequency: 2/4/8/16 kHz selectable (8 kHz factory setting)
Mains voltage class: 230 V
Integrated EMC filter: integrated EMC filter (C0xx base code)
Integrated brake transistor: yes (built-in chopper up to 11 kW)
Overload: 1.8 x rated torque for 60 s

Communication

Built-in ports: RS232/485 serial system bus
Protocols: Lenze system bus; fieldbus via plug-in communication modules (PROFIBUS DP, CANopen, DeviceNet, INTERBUS, AS-Interface)
Communication expansion: plug-in function/communication module slots (2 control interfaces; 3 for units above 15 kW)

Electrical

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Supply voltage: 1/N/PE 180...264 V AC (single-phase, 45...65 Hz), 3/PE 100...264 V AC for 3-phase versions; alternative DC 260...370 V DC supply (except E82EV251/371 units)
Power consumption: 30 W power loss at Ir / 8 kHz (per official 8200 vector catalogue 11/02 p.42, normal-operation rated-data table)

Environmental

Operating temperature: -10...+55 °C (derated by 2.5%/°C above +40 °C)
Storage temperature: -25...+60 °C
Relative humidity: average 85 % RH, without condensation (climatic class 3K3 per EN 50178)
Protection rating: IP20

Physical

Dimensions (H×W×D): 120 × 60 × 140 mm (per official FU 8200 vector catalogue 11/02 rated-data table, Dimensions HxWxD row, family-aggregated per power class)
Weight: 0.8 kg

Lifecycle

Legacy: official Lenze "previous products" page active; superseded by newer drive generations; official migration path to i950 exists - Lenze confirms the i950 emulates 8200 vector behaviour via i950 PROFIBUS module / L_ICIP library (per Lenze AKB articles 321231/316137, covering 8200vector/9300/8400/9400); no drop-in same-order-code **replacement (Last verified:** 2026-10)
Note: listed order code uses Lenze short notation; canonical 8200 vector type key is E82EVxxxKx... per official type-code diagram.
Audit status: OFFICIAL_VERIFIED