



Decoding DKC-48200A 3S: A Technical Deep Dive for Industrial Automation

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What Exactly Is the DKC-48200A 3S?

This alphanumeric code represents a high-performance servo controller from Bosch Rexroth's industrial automation lineup. Breaking it down: "DKC" indicates the product family, "48200A" specifies electrical characteristics (likely 48V nominal voltage with 200A current capacity), and "3S" denotes three-phase power input with enhanced safety protocols.

Why This Matters for Modern Factories

- Precision motion control for robotic arms (±0.01mm repeatability)
- Energy recovery systems reducing power consumption by 18-22%
- Real-time EtherCAT communication latency $8\mu\text{s}$ phase imbalance)
- Annual bearing current measurements (keep

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