



E°Darc DCB

Green drive technology

Electric Buffering

Energy Recovery and Peak Shaving

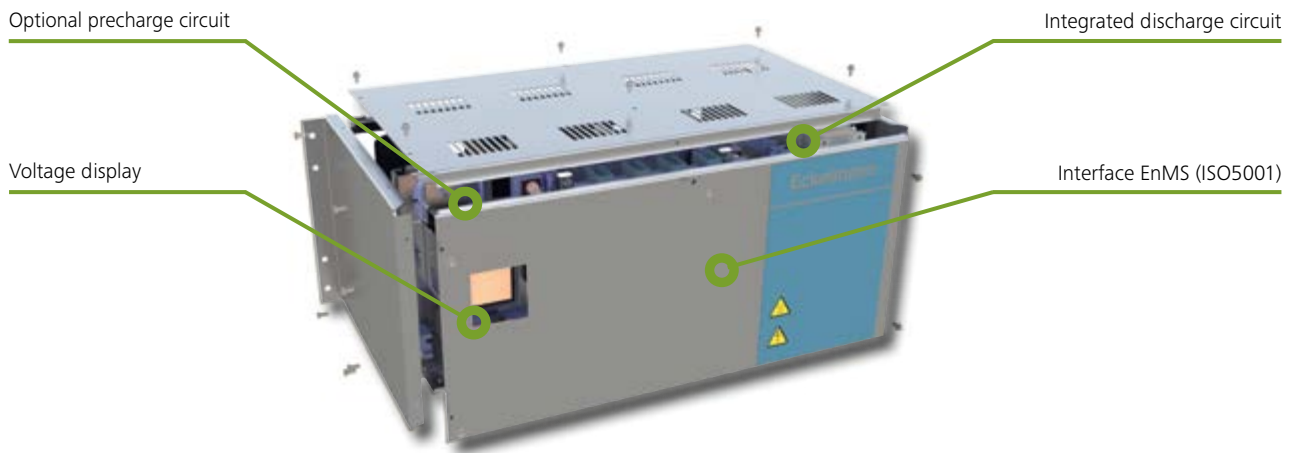


Product by **Eckelmann**

Green drive technology

Reduce your CO₂ footprint

The compact DC link capacitor modules store short-term electrical energy generated by regenerative drive controllers during braking recuperation. The energy storage system equips the drive system with the energy for the next acceleration process. E°Darc DCB significantly increases energy efficiency of your drive system, reduces energy consumption and peak load strain on the power feed. In addition, peak loads can be significantly reduced with the E°Darc DCB by means of an appropriate pre-charging option – this is referred to as „**peak shaving**“.



Up to 40% energy savings



Use energy wisely

- Saves up to 40% energy and CO₂ emissions
- Interception of peak loads (peak shaving)
- Manufacturer independent integration of servo drives and FIs possible
- Stable and uninterrupted power supply to the drives
- Controlled shutdown of axes in case of power failure – for maximum service life and reduced downtimes
- Reduced braking resistance
- Minimized energy costs for control cabinet cooling
- Ready-to-connect solution for easy commissioning and low installation costs
- Service optimized rapid unloading

Manufacturing companies with high energy consumption are in need to focus on energy efficiency. The E°Darc DCB energy storage units are the essence of regenerative drive technology for all applications with energy peaks.



Easy to handle, scalable and maintenance-friendly

Leverage the energy potential in the DC link. Rely on our capacitor-based energy storage solutions E°DCB for the industry - tailor-made to your application and installed easily inside the electrical cabinet.



Performance features

- Scalable energy storage: Converters up to 250 kW
- DC link rated current: up to 300 A_{RMS}
- Operating temperature: 0 ... 55 °C
- DC link voltage: up to 900 VDC
- Input voltage: 3 x 400 VAC ... 3 x 480 VAC



Features and options

- Integrated discharge circuit
- Precharge circuit optional
- UPS function for 24 V consumers optional
- IP protection class: 10B (finger-safe)
- Analog voltage display and interfaces for monitoring and control signals
- Integrated short-circuit protection
- Control unit with Profinet bus for energy management according to ISO 50001 optional
- Compatibility with drive systems from a wide range of manufacturers
- UL-compliant for the international market (UL 61800-5-1)
- CE certified according to 2014/35/EU

Recycle energy wisely by storage modules that are precisely tailored to your application. Our experienced engineers will be happy to advise you!

Eckelmann – We Automate Machines

Eckelmann is your **system partner for precise solutions in the field of automation and digitization**. As a strategic partner in digital transformation, Eckelmann leverages the opportunities of digitization and secures sustainable competitive advantages for its customers by creating suitable solutions in machine automation.

Locations national & international






480 + employees

8 sites

800 + customers

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