



On board with Eaton

Eaton is a leading power management company, providing energy efficient solutions that help customers use electrical, fluid and mechanical power more reliably, efficiently, safely and sustainably.

With many methods of transportation available today, you're challenged to make travelling the railways the reliable, efficient, safe, comfortable and cost-effective choice. To meet customer expectations, regulatory requirements and the demands of increased globalization, you must find ways to reduce downtime, increase productivity and enhance safety and security to drive profitability. All with an eye on making the industry more sustainable for the future.

At Eaton, powering the rail industry means both helping our customers build better and safer trains and enabling railway operators to operate competitively through a broad portfolio of electrical, hydraulic and filtration solutions designed for maximum reliability in any environment. With a focus on energy efficiency and safety, and through our technical expertise and project management capabilities, we can help you meet stringent regulations, minimize risk, secure your rail projects and drive sustainability.

Eaton helps you build better and safer trains

Eaton is offering a depth of customized electrical, hydraulic and filtration solutions. Remote monitoring capabilities ensure safety through preventive maintenance. High reliability rail-approved products and engineering competencies reduce downtime and project risk. Energy efficient solutions help reduce train energy consumption so you can focus your investment on passenger experience.



Legacy of innovation

With 30 years of experience in rail, our innovative portfolio has grown, including solutions from:

- Heinemann
- Bussmann
- Moeller
- Martek Power
- Cooper
- Walterscheid
- Vickers
- Aeroquip

Compliance

Eaton is offering leading products that guarantee the highest levels of safety and performance according to specific standards such as IEC 61373 (Rolling stock equipment - Shock and vibration tests) or EN 45545-2 (Fire protection on railway vehicles). Eaton products comply with the usual electrical standards (IEC and UL) for a worldwide usage. With a unique mix of electrical and hydraulics products, Eaton possesses industry-recognized safety products that are specifically designed for the railway's harsh and hazardous environment.

Competitiveness

Eaton is providing a large range of standard products covering the major electrical components used in rolling stock, and which are designed to reduce the level of maintenance required even when operating in harsh environmental conditions.

You can optimize your total cost of ownership by reducing the maintenance cost with our proven long life-time products.

Our innovation center and engineering teams are designing customized solutions that enhance productivity. Our engineering services help to optimize investment cost.

Expertise and Partnerships

With our rail competency center and a network of application engineers, we ensure that new and refurbished trains offer high levels of reliability and help to reduce total cost of ownership.

Fuses



Most comprehensive range of fuses and fuse gear suitable for protection of cable, motors, capacitors, transformers and semiconductor devices for rail applications.

Highly reliable fuses protection ensures the fuses operate only under abnormal conditions. No nuisance operation ensures reduced maintenance cost and safety.

Protection devices: MCB, RCD, RCCB



The xEffect series provides a wide range of circuit breakers for short-circuit, overload and residual current protection up to 1600A.

It guarantees protection of people, installations and systems worldwide with its extended functionality and suits perfect for advanced applications.

Hydraulic-magnetic circuit breakers



Hydraulic-magnetic circuit breaker technology offers reliable, precise and sustainable operation

It offers a tripping point insensitive to temperature variations and resistant to shock and vibration

NEW Hydraulic-magnetic circuit breakers



In addition to all advantages of hydraulic-magnetic circuit breakers, the new ADR series provides the same Fit and Form as the standard MCB. This unique design provides a significant advantage by simplifying refurbishment or technology upgrade projects.

Contactors and starters



Efficient, reliable and flexible high performance power contactors. Eaton is offering a complete range from 7 A up to 1600 A for motor application and 2600 A for resistive loads.

Push buttons and pilot devices



Best-in-class push buttons and pilot lights combine modern design with optimal functionality and maximum reliability

Power converters



Large range of standard or fully customized converters, from DC-DC to AC-DC and AC-AC, up to 15kW, designed for operations in harsh rail environment.

Supercapacitors module



Onboard high power energy storage unit for regenerated energy, bridge power on dead-tracks, UPS or main energy storage for electric wire-less trams and subways (charge in every station).

EATON

Powering Business Worldwide

www.eaton.com/rail

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