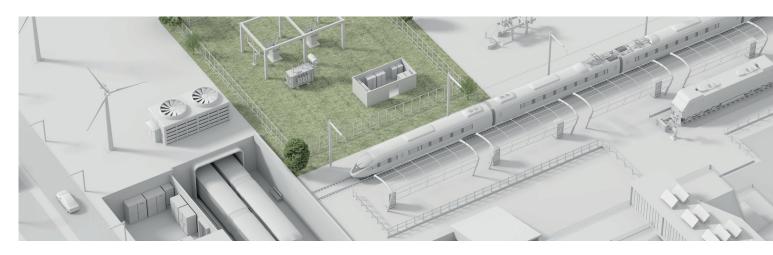


ELECTRIFICATION SOLUTIONS

Transportation rail and infrastructures Global offering



Rail and infrastructures



Rail is being rediscovered as a sustainable and energy-efficient form of transport. We understand the importance and implications of running these railway networks. We provide complete solutions that protect your infrastructure, and meet the expectations of users and transport stakeholders for all key applications. These include infrastructure, passenger stations, control and signaling units, tunnels and rolling stock.

Within this document you can see our global offering of products and solutions. Please refer to the relevant application below. Next to this, we have indicated which sections of this document to refer to for related solutions.

		DC Traction Power Supply (See page 3)	Electrification AC Railway Infrastructure (See page 7)	Infrastructures (See page 9)	Rolling Stock (See page 18)
5115	Infrastructure AC/DC substation	√	\checkmark	\checkmark	
	Passenger stations and building		\checkmark	\checkmark	
	Control and signaling		\checkmark	\checkmark	
	Tunnels			\checkmark	
	Rolling stock (metros, trams, locomotives, high speed trains etc.)				\checkmark

ELECTRIFICATION INFRASTRUCTURE LINE CARD

DC Traction Power Supply Global product offering for DC traction power supply applications

For decades, ABB has supplied worldwide traction power supply systems to deliver power to the line and power to the supporting infrastructure. With its wide range of products, solutions and services, ABB assists operators, consultants, general contractors and EPCs in designing, building and operating reliable, cost effective and energy efficient systems and solutions for DC traction power supply applications.

Modular systems

Product / Offering	Benefits and features
Packaging	Complete DC traction power supply solutions including medium-voltage switchgear, transformer-rectifier groups DC switchgear, low-voltage switchgear, protection and control as well as energy management systems.
	Key benefits:
	 Comprehensive product portfolio covering all functional requirements
	Reliable, cost effective, energy efficient and flexible solutions
	Technology leadership, global presence, application knowledge and local expertise
DC eHouse	DC eHouse is a prefabricated walk-in modular outdoor enclosure to house medium-voltage switchgear, transformer-rectifier group, DC switchgear, and low-voltage as well as auxiliary equipment.
and the second s	It is ready to operate in the field with minimal installation, commissioning and start up time – all contributing to cost reductions.
Medium-voltage primary dist Air-insulated primary switchgear	t ribution UniGear family (up to 40.5 kV) is an innovative solution based on market-leading industry standard air-insulated medium-voltage switchgear called UniGear and makes full use of ABB's Relion® protection and control relays,
	IEC 61850 communication protocol and is combined with the advantages of sensor technology.
	All this leads to an advanced switchgear solution addressing important requirements of the future: • Flexibility
1 4 4 4 A A	Increased process efficiency
	 Lower cost of operation Maximized integration
	Maximized integration Reliability and safety
Gas-insulated primary switchgear	ZX family (up to 42 kV) provides ultimate protection to medium-voltage electrical distribution.
p	Key benefits:
a start	• All "live" parts are completely protected from external influences like humidity, dust and vermin
	Provides safest operating conditions over extended lifetime while minimizing maintenance
	Saves space, in particular at higher voltage levels
	Easy "plug & play" installation

Product / Offering	Benefits and features
Air-insulated secondary switchgear	UniSec indoor air-insulated switchgear for medium-voltage secondary distribution up to 24kV.
	The UniSec metal-enclosed air-insulated switchgear is based on a highly flexible, modular concept with fewer parts and standardized solutions that can be readily configured to meet the specific needs of each application. This approach reduces training and maintenance requirements, ensures fast installation and facilitates future expansion to meet changing needs. UniSec offers the highest level of safety with different solutions in terms of internal arc classification and safety interlocks.
Gas-insulated secondary switchgear	SafeRing/SafePlus is an SF6 insulated ring main unit/compact switchgear platform for secondary distribution networks up to 40.5kV.
8. , <mark>E</mark> EE	Together, SafeRing/SafePlus provide a complete, flexible and compact switchgear system solution. It is a completely sealed system with a stainless steel tank containing all live parts and switching functions. This ensures a high level of reliability and personnel safety, and a virtually maintenance-free system
Power conversion	
ENVILINE™ TCR – Traction controlled rectifier	To power trains, metros and trams, it is necessary to use an electronic power converter (traction rectifier) to convert alternating current into direct current. The ENVILINE™ TCR is the right solution for maximizing the distance, balance and stability of the DC line. Additionally, the TCR can reduce losses in rolling stock and prevent interruptions caused by under voltage.
	Key benefits: • DC line voltage control • High reliability and flexibility • Cost-efficiency
ENVILINE™ TDR – Traction diode rectifier	AC to DC voltage rectification is at the heart of urban transportation infrastructure. The ENVILINE™ TDR is the most reliable and cost effective rectification solution for DC rail transportation.
	Key benefits: • High reliability and flexibility • Cost-efficiency • High energy density resulting in a compact footprint
ENVILINE™ WDR – Withdrawable diode rectifier	The withdrawable diode rectifier offers the same functionality of a traditional traction diode rectifier, with the difference that the diode modules are installed on a removable trolley, accessible by the front of the unit.
	 Key benefits: Back to the wall installation: the rectifier has a reduced footprint and lines up with transformer and/or DC switchgear for ease of installation Front access for optimized maintainability Modular approach with standardized modules to shorten lead times and facilitate spare parts management
ENVILINE™ ITR – Integrated transformer rectifier	The most compact rectification solution for DC traction power supply. Traditionally, the transformer and rectifier are provided as separate units. ENVILINE™ ITR offers the same performance as traditional transformer-rectifier units, combined in one single enclosure.
	Key benefits: • Reduced footprint • Highest reliability • Easy to install
DC Distribution	
ENVILINE™ DCGear	DC switchgear serve as control and protection equipment in DC traction power distribution networks. The cubicles are available in different configurations with DC high-speed circuit breakers, disconnectors and/or load break switches. The panels contain proven technology components and are designed and type-tested in accordance with the latest standards.
	 Key benefits: Freestanding rigid metal enclosed cubicle, with separate screened compartments to provide both high active and passive safety for operation and maintenance personnel Wide range of current ratings High availability and low maintenance.
Gerapid	Gerapid is a single-pole, air high speed DC circuit breaker designed for use in high power DS distribution systems. The combination of high interruption capacity, current limiting characteristic and uncompromised reliability, makes Gerapid a perfect solution for use as main protection device in DC traction power substations.
	Key benefits: • Globally recognized and approved brand • Full ratings coverage including heaviest metro applications • Proven safety and reliability performance • Easy of integration and servicing

	Benefits and features
Energy Management Systems	
ENVILINE™ ESS – Energy storage system	ENVILINE™ ESS is a wayside energy storage system that recovers, stores and returns surplus braking energy to the DC network, helping to reduce the total energy consumption of a rail transportation system by up to 30 percent.
	Key benefits: • Lowers energy costs through energy recovery • Reduces the demand charge and peak power demand • Lower capital cost versus a new DC traction substation for voltage support • Increases the distance between DC traction substations
BRI BAL	Seamless integration into existing DC traction power networks
ENVILINE™ ERS – Energy recuperation system Timers	ENVILINE™ ERS is a wayside energy recuperation system recovering surplus braking energy and returning it back to the AC network, thus reducing the total energy consumption of a rail transportation system by up to 30 percent. Th ERS can be configured to provide rectification boost (bidirectional operation of ERS) and reactive power mitigation when not recovering energy.
	Key benefits:
	Lowers energy costs through energy recuperation
	 Lowest upfront and maintenance costs Small footprint, easy installation, low maintenance
	 Elimination or reduction of braking resistors on rolling stock, thus reducing heat dissipation in tunnels Compatible with new and existing traction networks
ENVILINE™ ARU – Automatic receptivity unit	ENVILINE [™] ARU is a wayside automatic receptivity unit that ensures track receptivity during regenerative braking by dissipating all surplus energy that cannot be absorbed by other onboard loads and nearby trains. By deploying the wayside ARU instead of onboard resistors, the rail operator reduces the train's weight and energy consumption and also eliminates the accumulation of heat caused by braking in tunnels and underground stations.
Protective devices	
Protective devices VLD – voltage limiting devices	VLD detects and removes hazardous voltage conditions by shorting the running rails to ground in a timely, effective and safe manner.
VLD – voltage	and safe manner. Key benefits:
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Product / Offering	Benefits and features
Services and support	
Distribution Automation	Web server functionality providing access to substation processes, operations and relays via a web browser (web HMI).
	Substation Automation function and its features: Process visualization based on web HMI Alarms and events
	 EC 61850-based integration to ABB or third party relays Remote relay parameter setting using SPA protocol or IEC 61850
	 Relay disturbance record upload Operational and user security
Service	The services offered by ABB for medium-voltage products and systems span the entire value chain, from the moment a customer makes the first inquiry to the disposal and recycling of the product.
All	Throughout the value chain, ABB provides training, technical support and customized contracts. All of this is supported by one of the most extensive global sales and service networks.
Consultancy	Finding the best technology solution for your electrical system designs is easy with ABB's comprehensive selection tools and extensive technical documentation. We offer highly functional and easy to deploy products to support a wide range of projects. And we want to support you at each stage of your project, with design software, training materials, configuration and product selection tools.
	Whether you're looking to deliver energy efficiency, space savings, easily maintained systems or overall project cost reduction for your customers, with the breadth of our offering you can deliver customized solutions to meet your project goals and streamline engineering processes.
Network simulation	For DC traction power supply applications, a profound knowledge and understanding of the entire system's behavior is highly important.
	In particular for energy management systems, power calculation studies performed with the ENVIsim tool will determine the most effective place of where to install energy ecuperation or energy storage systems and enable optimized dimensioning of the chosen system.

Please note: This is ABB's global offering and some products might not be available in your country. Refer to abb.com for your location.

ELECTRIFICATION AC RAILWAY INFRASTRUCTURE LINE CARD

Medium-voltage products, switchgear and modular solutions

Global offering for AC railway infrastructure – fixed installations

For decades, ABB has supplied fixed railway installations with a range of technologies to deliver power to the line and to the supporting infrastructure. Our offerings assist assets owners, engineering firms, consultants, general contractors and EPCs in designing, building and operating reliable, cost efficient, environmentally friendly and sustainable systems and solutions for AC railway power supply.

Medium Voltage

Product / Offering	Benefits and features
Modular substation	
E-house	Metal enclosed buildings providing greater safety, and easier installation, maintenance, engineering and on site testing – all contributing to cost reductions and short lead times.
1	
Compact secondary substation	Compact secondary substations are prefabricated substations that include a low-voltage switchboard, transformer and medium-voltage switchgear. CSS is internal arc tested for higher safety. ABB CSS is the perfect answer to deliver auxiliary power along the track to signalling and communication systems.
Outdoor modules	ABB's outdoor railway modules provide a new for-rail substation based on the implementation of complete factory assembled and tested outdoor modules. By design, the offering covers single- and two-phase 25 kV and 15 kV systems, and addresses all project specific concerns such as optimization of the delivery schedule, mitigation of risks due to delays and errors, simplification of interfaces and design work, land savings and cost of civil works, down time and possession planning, etc
Primary and Secondary Distribution S	witchgear
MV distribution primary and secondary switchgear	ABB offers a wide variety of medium voltage primary (ZX, UniGear) and secondary switchgears (Unisec, Safe Plus/ Safe Ring) for safe and reliable, state of the art, cost efficient power distribution for your infrastructures (depots, passenger stations, tunnels, ventilation shafts, etc)
	With an air- and gas-insulated portfolio, ABB offers a large choice to meet project-specific requirements such as footprint, ease of installation, ease of service, etc

Product / Offering

Benefits and features

Medium-Voltage Traction Power Supply Switchgear

Medium-voltage air-insulated switchgear



a cost-effective and reliable power supply. Its metal clad arc-proof construction ensures a high level of operator and system safety combined with ease of servicing thanks to the use of a withdrawable system for core switching elements. UniGear R has worldwide track records in 1x15 kV/16.7 Hz and 1x 25 kV/50 Hz (60) Hz Networks in various applications such as feeding points, coupling and track-sectioning points, depots, testing stations, converter stations, etc ...

UniGear R, part of ABB's well-proven UniGear family, offers maximum flexibility for railway AC systems by providing

Medium-voltage gas insulated switchgear



ZX1.5-R, part of the well-known ABB's ZX1 series, offers maximum flexibility for railway AC systems by providing a cost-effective and reliable power supply. Its arc-proof construction ensures a high level of operator and system safety combined with ease of servicing thanks to a "sealed for life" gas compartment. The superior insulation properties of SF6 are key to provideing a very compact design to reduce footprint demand. Finally, the use of "Plug In" systems eliminate the need for gas work on site, and contributes to shorter installation and commissioning times. Zx1.5-R has worldwide track records in 1x 25 kV and 2x 25 kV/50 Hz (60) Hz Networks in various applications such as feeding points, coupling and track-sectioning points, depots, testing stations, autotransformer stations, etc...

Medium-Voltage Traction Power Supply Apparatus

Indoor circuit breaker



The GSx II range is the first commercially available single-phase vacuum circuit breaker for railway power supply applications to feature a vacuum interrupter, magnetic actuator and electronic controller. This solution is robust, reliable and essentially maintenance-free. The GSx II range is suitable for new installations, refurbishments and upgrades. It can be used for any indoor installations insulated in air, e.g. panels, shelters and containers. It can be offered to OEMs and panel builders as a loose product, or mounted on a trolley with or without a current transformer.

Outdoor breaker – low AC frequency applications



FSG and GSL are purpose-built vacuum load break switches intended for railway power-supply. Designed as a heavyduty outdoor breaker and widely used for 16.7 Hz railway networks, this range ABB's solution for applications that require fast triggering. Extremely high mechanical endurance and the outstanding electrical performance of vacuum interrupters provides highly reliable maintenance-free products with low life cycle costs. FSG and GSL have worldwide track records in single and two-phase 16.7 Hz and 25 Hz railway networks...

Outdoor breaker – industrial AC frequency applications		The FSK II + vacuum breaker uses a well-proven combination of a magnetic actuator and electronic controller that eliminates several moving parts, making it robust, reliable and essentially maintenance-free.		
		 FSK II+ is nowadays recognised by the market as the benchmark thanks to: Compactness and low footprint needs Eco-efficient and environmentally friendly design Adaptability and flexibility Suitability for new installations, refurbishments and upgrades Use in 1x25 kV and 2x25 kV lines, classic and high-speed, discrete structure mounted outdoor switchgear (SMOS), and integrated modules 		
Outdoor disconnectors		EZC are purpose-built disconnectors intended for railway power supply. They are suitable for new installations, refurbishments and upgrades, and designed for use with 1x25 kV and 2x25 kV lines, classic structure mounted outdoor switchgear (SMOS), and integrated modules, overhead lines or feeding points. Several options can be chosen to meet specific requirements, such as motor or hand operated control units and integrated or independent earthing switches. The use of polymeric insulators guarantees superior performance in the harsh and demanding conditions of AC railways.		
Service				
Service		With a global installed base and domain expertise, our services improve the operational efficiency, reliability and performance of your systems and equipment across the complete lifecycle while lowering environmental impact. ABB offers Global Support Centers providing 24/7 phone response, monitoring centers and online support.		

Please note: This is ABB's global offering and some products might not be available in your country. Refer to abb.com for your location.

Low-voltage products and systems

Transportation infrastructure global product offering

Understanding the importance and complexity of running and operating transportation infrastructure, ABB offers products and solutions to meet all your requirements. With a new range of power circuit breakers, switchboards, distribution cabinets and protection products, ABB ensures maximum safety and efficiency for your installations.

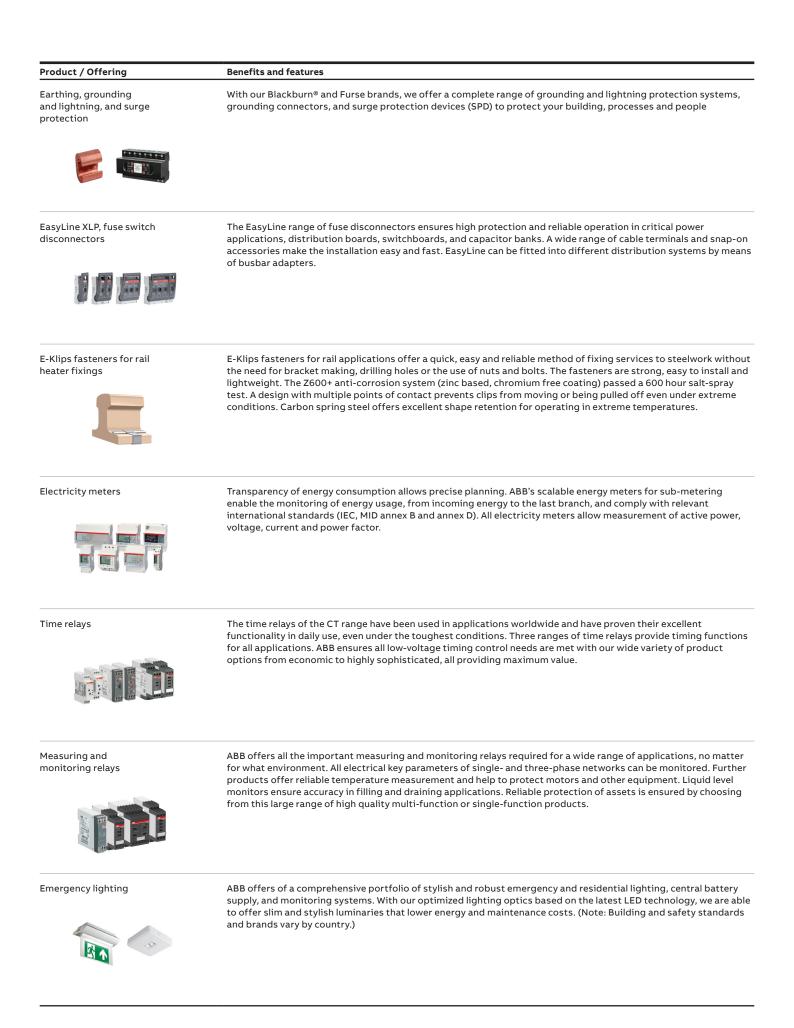
Low voltage

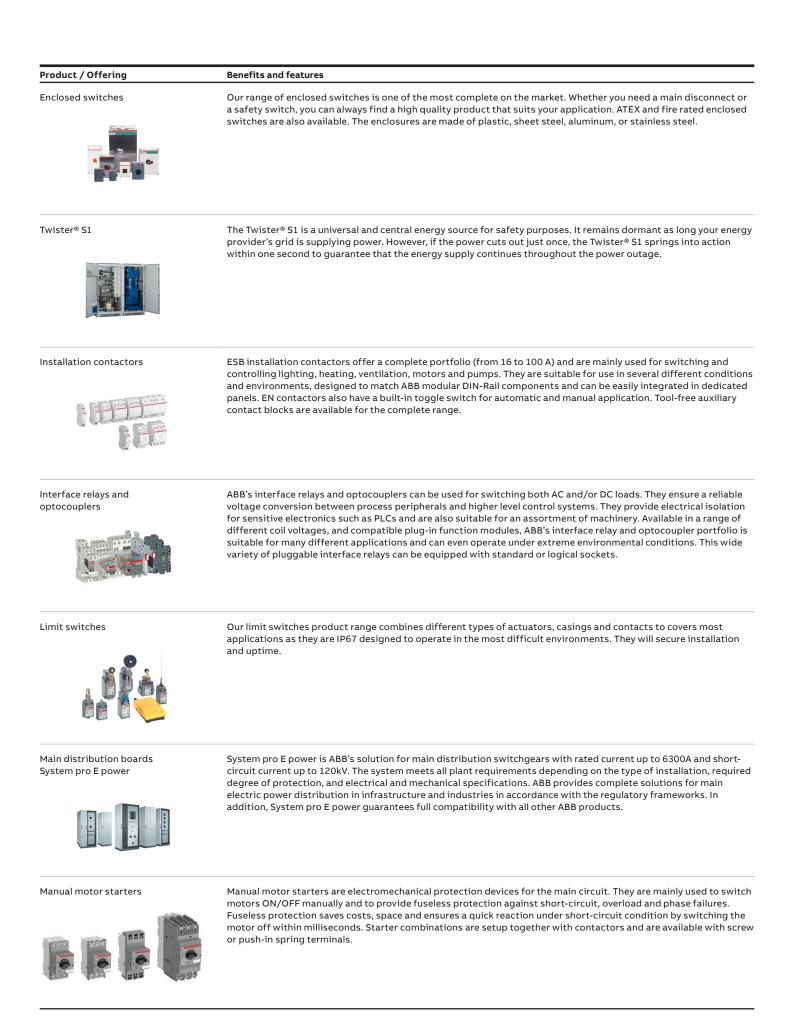
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Product / Offering		Benefits and features		
The well-established ABB i-bus® KNX system is available today for the demands of tomorrow. It is based on the worldwide KNX standard and is open for ever increasing demands – for the utmost safety in planning.				
Lighting Control		ABB i-bus® KNX ensures optimum lighting in industrial and office buildings as well as private dwellings by monitoring and controlling lighting requirements. In addition, subsystems, such as 1-10 V lighting control and DALI and their interfaces are supported.		
Shading Control		ABB i-bus® KNX controlled roller shutters, windows and blinds with sun position controlled louvers allow optimal lighting conditions and contribute to improved temperature and climate control in a room.		
Heating, ventilation and air conditioning		ABB i-bus® KNX integrates heating, air conditioning and ventilation for comfortable and efficient climate control. Measured temperature values in the rooms are recorded and supplied to the heating and cooling control system to generate the optimum temperature and air quality.		
Security		The combination of professional ABB security technology components and ABB i-bus® KNX devices provides optimum building monitoring and warning against unauthorized entry. Emergency call stations allow immediate notification if help is required. Technical detection alarms (water, smoke, gas) can also be integrated.		
Presence Detection		Knowing if people are in or moving around the building is a valuable asset for the efficient automation of any property. The ABB i-bus® KNX range of innovative motion and presence detectors helps to control and manage daily tasks in every sector of the building – indoors and outdoors. Whether lighting, heating, air-conditioning or security related functions, this portfolio of premium design, high quality detectors can significantly improve levels of safety, efficiency and comfort throughout the building.		
Energy Management	1 III	ABB i-bus® KNX is designed to reduce building operating costs and to employ the required energy consumption according to demand. Objectives are optimization of resources, climate protection, and cost saving while keeping the comfort level of users at its highest.		









Product / Offering

Benefits and features

Circuit breaker for transformer protection



3-pole contactors and overload relays for motor starting and power switching



4-Pole Contactors for power switching



Overload relays



Electronic compact starters



of functions are combined in a compact housing only 22.5 mm wide. It includes direct-on-line and reversed starting as well as motor overload protection up to 3kW/400 V AC in just one device.

Transportation infrastructure demands products that are highly reliable, offer superior functionality and require little space in control cabinets. ABB's answer is the HF range- 30 million electrical switching cycles and a wide array

Universal motor controller



The intelligent ABB universal motor controller UMC100.3 combines motor protection and control functions, fieldbus and Ethernet communication, as well as fault diagnosis in just one device. It provides detailed operational, diagnostic and service data continuously, providing an effective data source for modern predictive maintenance systems in any plant. The device can be easily expanded when needed- for example with analog and temperature inputs, voltage measurement or digital inputs and outputs. Due to its flexible configuration options, the engineering effort can be significantly reduced and the number of modifications to a project limited to a minimum.

Arc Guard TVOC-2



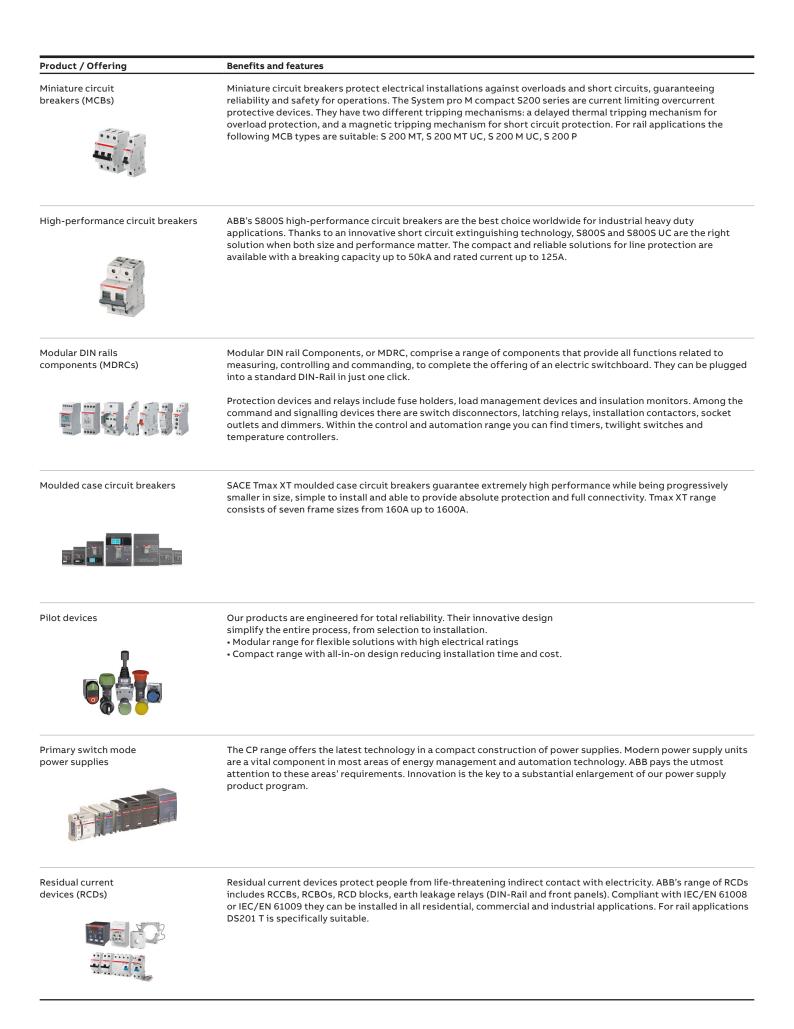
The Arc Guard System™ increases safety to personnel and equipment and minimizes downtime after an arc accident has happened. The easy-to-read interface makes reading status information quick and easy. A simple start-up menu quickens installation and setup. SIL-2 approval ensure maximum reliability.

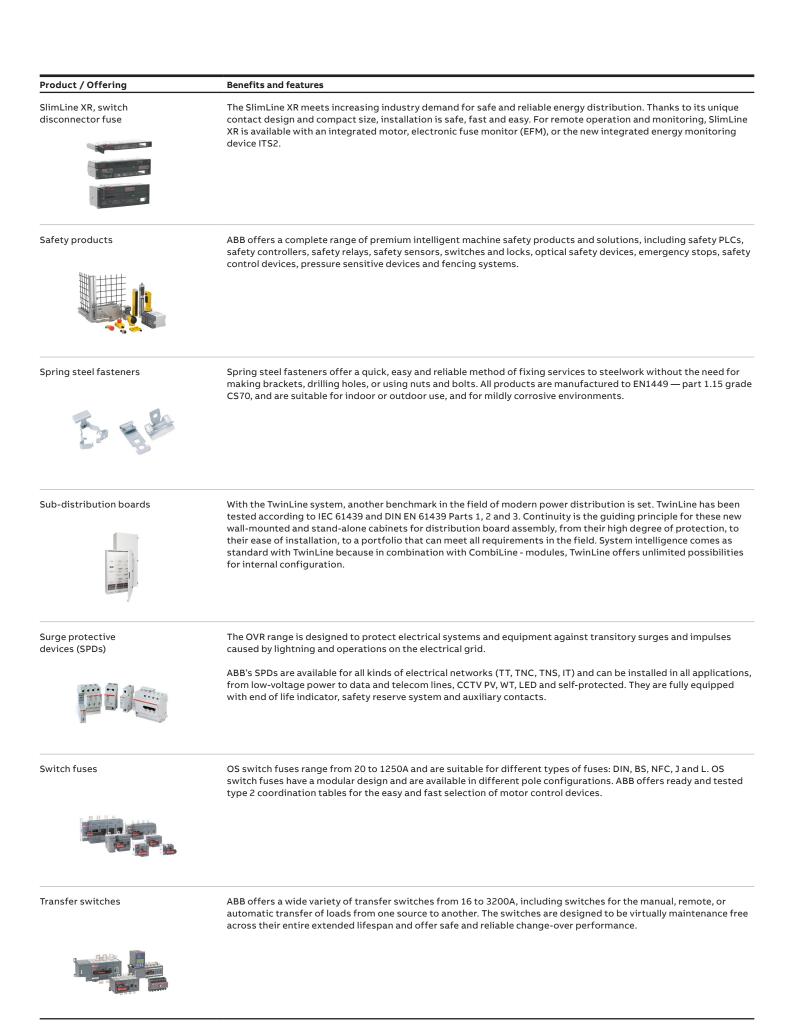
Circuit breakers for transformer protection are specially designed for fuse-less protection on the primary side of control transformers against overloads and short-circuits. It also allows the transformer to connect and disconnect manually from the mains. At start-up, transformers generate very high peak currents (inrush currents) so regular protection is often not enough. Where transformer must be appropriately protected, ABB's new MS132-T is the ideal solution.

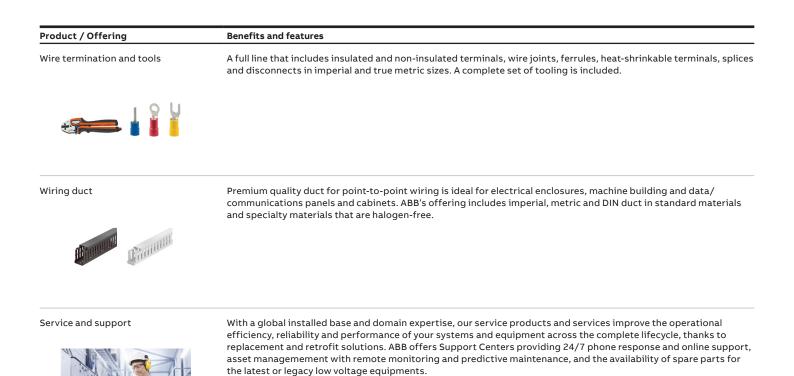
ABB 3-pole contactors offer an exhaustive selection of products for simple and extreme applications. AF contactor technology revolutionizes how we use contactors and enables functionality in all parts of the world and in a variety of network conditions. Furthermore, the mini-contactor range offers compact dimensions and specific connection possibilities. You can choose terminals between screw, push-in spring and ring tongue through our ranges. So whatever your need of a contactor might be, ABB will have a variant meeting just that.

ABB's AF 4-pole contactor range is a complement to the family of 3-pole AF contactors and motor protection equipment. Unmatched performance in a variety of applications and environments has made the AF contactors well appreciated by customers throughout the world. You can also benefit from the compactness of the 4-pole mini contactors available with 3 connection types.

Overload relays offer a reliable and affordable protection for motor starting solutions. It signalizes when an overload current or a phase failure unexpectedly occurs in an electrical circuit. There are two different technologies: the thermal version and the electronic version, which suits perfectly fine for standard applications. Both versions include reset (manual or automatically), test and stop functions. They are mounted directly to the correspondent contactors or they can be used for standalone applications (Single mounting kit needed).

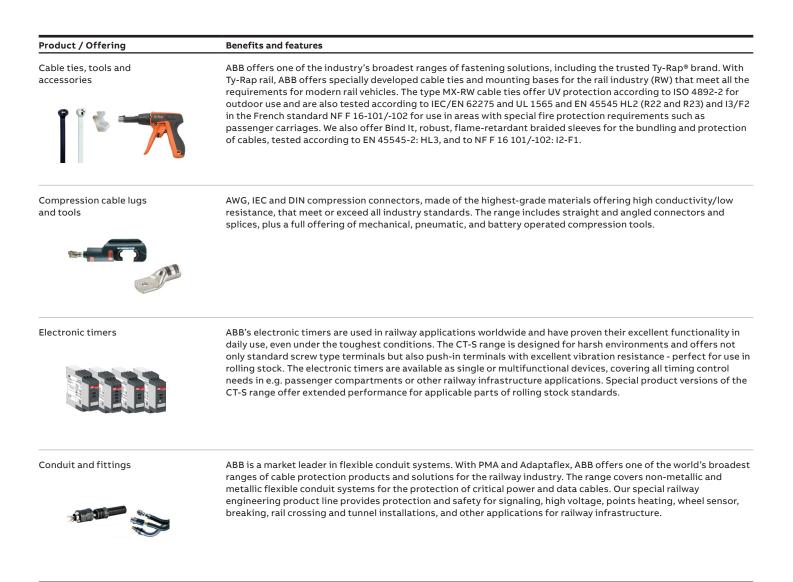




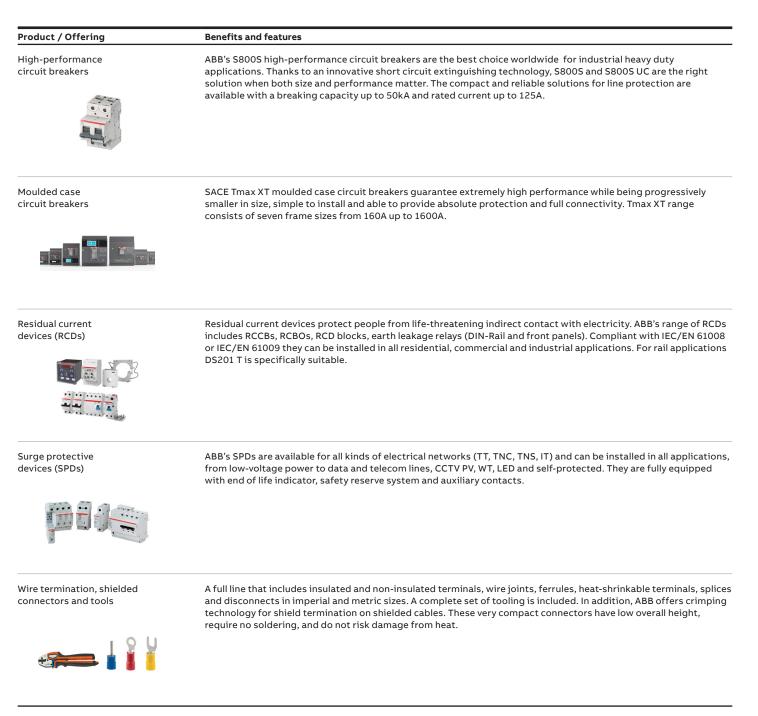


Low-and medium-voltage products and systems Rolling stock global product offering

Working worldwide with leading vehicle manufacturers and transport operators, ABB offers a broad range of low- and medium-voltage solutions, for rolling stock to suit each of your applications and increase the efficiency of your equipment.







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ABB Connect Your Digital Assistant

Connect to your electrification solutions with your digital assistant, access the latest news and create your own digital workspace.

Available for use on iOS, Android and Windows 10.

new.abb.com/low-voltage/service/abb-connect

ABB

For more information and local contacts, please visit:

new.abb.com/medium-voltage/by-customer-segment/railways-and-transportation

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