

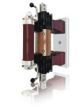




















# Industrial products

## Power Products Medium Voltage

Product	Offering		Benefits
Switchgear	SafeGear™ air insulated arc resistant metal clad switchgear 5-15 kV		Rated up to 63 kA with accessibility types 2, 2B, 2C, & 2BC and smallest depths of 85" and 92" available, ABB SafeGear meets IEEE C37.20.7 & IEEE C37.20.2. Additional unmatched flexibility is achieved with ADVAC spring charge breaker or AMVAC magnetically-actuated long life breaker.
	Advance air insulated metal clad switchgear 5-15 kV		For over a decade, Advance switchgear's innovative modular design has provided customers a safe, reliable, flexible, and easily maintained switchgear portfolio with many product variations, configurations and options to best suit their needs.
	I <sub>s</sub> -Limiter current limiting device		The world's fastest current limiting and switching device rated up to 40 kV, the I <sub>s</sub> -Limiter is capable of detecting and limiting a short-circuit current during the first current rise, i.e. in less than a milli-second. It can be applied in early system design stages or to increase ratings in existing systems thereby reducing capital costs and improving system functionality.
	ZX family of gas insulated arc resistant switchgear 15 - 40.5 kV		Combining modern vacuum interrupter technology with a low-pressure SF6 gas insulation, all primary components inside the SF6 cabinets are maintenance free during their lifetime making the ZX family ideal for harsh, aggressive environments with a space saving compact design.
MV motor control centers	SafeGear arc resistant & Advance non- arc resistant motor control centers rated at 2.4 -7.2 kV		SafeGear's arc resistant construction maximizes protection for equipment and personnel. It provides a superior solution for increased worker safety with enhanced reliability and ease of use. Advance provides cost-effective and innovative ways to power medium voltage motors.
Distribution protection relays & control solutions	Microprocessor relays		Offering includes protection relays for distribution applications in feeder, motor, and transformer. The Relion 615 and 620 series, along with the REF615R, offer state-of-the-art, low to high end protection and control solutions. Relion relays include easy to use interface, three open communication protocols, short lead times, among other advantages.
	Pre-Configured Matching Unit (PCMU)		Serving as a direct replacement for ABB legacy relays, the PCMU is the best solution to mitigate risk, limit downtime, and save costs on relay upgrades. It ensures a reliable, seamless upgrade due to the risk reduction only a wire-alike solution can provide.
	COM600 grid automation controller		A flexible substation automation device that provides localized automation tasks, The COM600 gathers data from protection and control devices, such as relays and meters, combining different communication protocols into one common contact point.
	Electromechanical relays		For new applications where reliable operation is essential, in harsh environments, or in existing installations where an exact replacement is required, ABB electromechanical relays are key components for your power infrastructure.
	Solid state relays		A part of our legacy portfolio, solid state relays are the best fit when a single-function relay and no communication is required. Solid state relays provide the required protection functions for feeders, motors, subtransmission lines, transformers, generators, and many other applications.
Test switches	Flexitest™ switch		FT switches provide a safe, simple, fast and reliable method to isolate, test, and service installed equipment without disturbing the system.
Arc protection devices	REA Series		With safety a top priority, the REA family of relays is designed for the protection of medium and low-voltage air-insulated switchgear against arc incidents.
Passive voltage indicators	VisiVolt™		Adapted for permanent installation on busbars and naked or insulated metal conductors in medium voltage systems, the VisiVolt indicates the presence of voltage to provide a higher level of safety.
Outdoor circuit breakers	R-MAG® magnetically actuated outdoor breaker		Designed with a magnetic actuator mechanism, the R-MAG breaker reduces costly maintenance intervals, increases reliability, and improves safety. This field-proven design is offered in ratings of 15-38 kV 200 kv BIL and 40 kA.

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Reclosers	OVR recloser (single and three phase)		Provided with the PCD control, the OVR recloser provides single phase tripping, reduced maintenance, and increased safety with all electronics located in the control cabinet. The OVR is available with single and three phase tripping and up to 38 kV, 1200 A, 16 kA.
	GridShield® three phase recloser		ABB's next generation recloser with the advanced RER620 control and integrated web browser for easy programming, the GridShield provides smart grid technologies such as DNP and IEC 61850 with GOOSE messaging. The GridShield is available with single and three phase tripping, integrated loop control, and up to 38 kV 1200 A 16 kA.
Padmount switching products	ReliaPad® padmounted circuit breaker		Dead-front padmount circuit breaker consists of a three-phase breaker, load-break switches, control cabinet and a VT for control power. The ReliaPad is offered with the PCD or RER620 control for single phase tripping, remote communication, and various other smart grid technologies.
Switches	VersaRupter load break switch		Available to OEM manufacturers as a building block for metal-enclosed and padmounted switchgear applications in ratings from 5-38 kV, 200-1200 A, 40 & 61 kA. Available with numerous accessories including various drive mechanisms such as motor operation.
Instrument transformers	Current and voltage transformers 0.6-34.5 kV		Dry type instrument transformers for indoor and outdoor use providing high accuracy and standard accuracy metering, relay protection, and control power. Available to OEM manufacturers and assemblers for switchgear, power transformers, breakers, capacitor banks, substations, metering cabinets, and pole mounts.
Aftermarket service & support	Replacement components, field & commissioning services, replacement circuit breakers, training, engineering solutions, retrofit, & factory refurbishment		Expert service on installed equipment, as well as continuing support for equipment upgrades and replacement, are key benefits of our service structure. ABB's superior technology, backed by quality assurance programs that meet rigorous standards along with worldwide leadership in electrical distribution equipment, allow ABB to provide a multitude of aftermarket solutions and services to fit customer needs.
Packaging	A single point of contact for products and services		Helping to reduce costs in engineering, product, procurement, and project administration. This comprehensive approach to project management improves project coordination and reduces risk.

**ABB Inc.**  
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