

# ABB offers medium voltage solutions that meet your industrial needs



ABB specializes in the design, manufacture, and service of medium voltage distribution products for the ANSI market that ensure performance excellence for industrial customers.

We support our customers and products with local collaborations that are backed with the talent, technology, and finance of a global leader. This is yet another example of how ABB achieves its mission to contribute to the success of our customers.

## **ABB – your focused partner**

Focused and dedicated with over a century of experience, ABB has the credentials and the performance record to be your supplier of choice. ABB has what it takes to deliver the right products, systems, and services.

Regardless of the type of industry, it takes a committed and reliable partner to assure that your plant is running at peak efficiency. While many companies are invested in other businesses that might distract them from responding to your needs, ABB remains focused. This is one of the many reasons industrial customers choose ABB to ensure the stability, predictability, and reliability of their assets.

## **Safety is our priority**

Our innovative technologies focus on safety - saving equipment, money, and most importantly - lives.

## **Core medium voltage products and capabilities**

- switchgear & motor control
- instrument transformers
- aftermarket service, parts, support
- protection relays & control solutions
- circuit breakers
- reclosers
- training

## **ABB offers a complete solution**

Contact your local sales representative or visit [abb.com](http://abb.com) for more information on ABB's extensive product portfolio beyond medium voltage products, including: motors and drives, low voltage switchgear and motor control centers, transformers, instruments, controls, high voltage circuit breakers, automation products, and enclosures.



Product	Offering	Benefits
<b>Switchgear</b>	SafeGear air insulated arc resistant metal clad switchgear 5-15 kV	Uses a wide array of standard modules to efficiently deliver custom switchgear. Superior safety and low maintenance are achieved by customer-focused design innovations, such as a breaker-mounted, closed-door racking system with fully automatic connections. SafeGear's arc resistant construction maximizes protection for equipment and personnel.
	Advance air insulated metal clad switchgear 5-15 kV	
	Is-Limiter current limiting device	Reduces the short-circuit current in extensions of existing systems and in new systems. Capable of detecting and limiting a short-circuit current during the first current rise, i.e. in less than a millisecond.
	ZX2.2 gas insulated arc resistant metal clad switchgear 15-42 kV	Arc resistant construction maximizes protection for equipment and personnel. Combines modern vacuum interrupter technology with a low-pressure SF6 gas insulation with plug-type connections to eliminate any SF6 gas handling. Ideal for harsh, aggressive environments, the compact, space saving design includes enclosed life parts for enhanced reliability.
	Load Interrupter Switchgear air insulated metal enclosed 5-38 kV	A reliable, low maintenance and economical choice for medium voltage distribution applications such as main switchgear, load switching center and unit substations. Uses the compact, high performance VersaRupter load interrupter switch.
<b>Motor Control Centers</b>	SafeGear arc resistant motor control 2.4-7.2 kV	A safe, cost-effective and innovative way to power medium voltage motors. Provides a superior solution for increased worker safety, enhanced reliability and ease of use. SafeGear's arc resistant construction maximizes protection for equipment and personnel.
	Advance motor control 2.4-7.2 kV	
<b>Padmount Switching Products</b>	MDS dead-front & MES live-front padmount switchgear	The line includes live-front and dead-front loadbreak switches and fuses in multiple configurations in ratings up to 25 kV 600 A. Dead-front design for added safety to personnel. Uses the compact, high performance VersaRupter load interrupter switch.
	ME dead-front fused sectionalizing enclosure	Designed for 200 ampere circuits to protect and sectionalize systems. Choose between current limiting or power fuses.
<b>Instrument Transformers</b>	Current and voltage transformers 0.6-34.5 kV	Specialty combination instrument transformers for metering and control power can be used in metering packages for switchgear and utility applications.
<b>Aftermarket Service &amp; Support</b>	Replacement components, field & commissioning services, replacement circuit breakers, training, engineering solutions, retrofit, & factory refurbishment	Ongoing, 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.
<b>Protection Relays &amp; Control Solutions</b>	Microprocessor, Electromechanical and Solid State Relays	An intelligent investment for every industrial and commercial application including generator, motor, feeder, transformer, and arc-flash mitigation relays. Protective relays available with DNP 2.0 and Modbus communication features.
	Power Rich System power control and monitoring system	Monitors substation and line equipment, provides control and gathers data. Enterprise Edition offers five products built into a single tightly integrated system: SCADA, Historian, Report Generation, Web Server, Relational Database Server.
	FT-1, FT-19R, FT-19RS, FT-19RX, FT-1F, FT-1X Flexitest test switches and test kit	With an almost unlimited amount of configurations and ability to customize, they provide unparalleled safety and convenience for switchgear, breaker, relay, metering or industrial applications for in-service testing, isolation, calibration or monitoring, without de-powering panels.
<b>Circuit Breakers</b>	R-MAG, Type R & Type V outdoor distribution vacuum circuit breakers 15-38 kV, 40 kA, 200 kV BIL	ABB breakers have adjustable legs and provide overcurrent protection, with the reliability of vacuum interruption. The air-insulated, dead tank designs, provide additional safety to operating personnel. Virtually maintenance free, the R-MAG uses magnetic actuation.
	ADVAC indoor vacuum circuit breakers	Maintenance features include front access to the simple operating mechanism, manual spring charging system, and integral wheels for easy floor maneuvering. The racking system is self-contained so maintenance can be performed safely outside the breaker compartment and away from energized primary and secondary circuits.
	AMVAC magnetically-actuated indoor vacuum circuit breakers	Available in stationary and drawout forms, the AMVAC has very low maintenance requirements because of the permanent magnet technology.
	Replacement circuit breakers	Interchangeable roll-in replacement breakers can be inserted directly into existing switchgear, minimizing downtime in critical applications. ABB offers a comprehensive portfolio of low and medium voltage breakers for most major manufacturers.
<b>Outdoor Reclosers</b>	OVR-3 three-phase vacuum recloser with PCD control 15-38 kV, 1250 A, 16 kA	Stainless enclosure with no electronics in the high voltage compartment for easy maintenance. Pole or substation mounted. Incorporates integrated sensors and virtually maintenance free magnetic actuators. The PCD control offers advanced capabilities such as adaptive protection, control monitoring, power quality, communications, single phase tripping, and loop control.

