

ABB India at ELASIA 2024

ABB India, a global technology leader, will be showcasing its next generation, safe & reliable electrification technologies for smart power and building automation solutions at ELASIA 2024 at the Bangalore International Exhibition Centre (BIEC). These products can be applied across various segments such as residential and commercial spaces, factories, data centres, transport infrastructure and more. Please find the product details below.

Celebrating 100 years of MCB.

ABB's first-of-its-kind Miniature Circuit Breaker (MCB) has reached a milestone 100-year anniversary of protecting electrical circuits and while evolving to meet the sustainability needs of the future. MCB's have transformed our daily lives by ensuring the safety of both commercial and residential buildings, mitigating the risk of unforeseen incidents. Its implementation has not only revolutionized home safety but also extended electrical safety across society as a whole. ABB has been manufacturing these MCBs in India since 2001 at their Industry 4.0 Nelamangala factory.



New launch products

ABB India Smart Power Offerings:

1. XT2-XT4-XT5 Tmax MCCBs



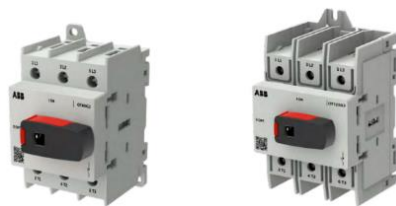
- Sharing the same features and logics with Emax-2 ACB
- Maximize data and connectivity
- Ease of use and installation
- Higher performance, better protection and more precise metering
- Safety and reliability.

2. Smart Communication Card



- Connect your devices to cloud-based platforms like MQTT, https and OPC UA
- Cyber security as built-in feature
- Optimized wiring connection and installation method

3. OT Plus



- Eco friendly design
- Adjustable fourth pole timings
- Universal auxiliary contact block to any switch frame
- Mounting made four times easier.

ABB India Smart Building Offerings:

1. Wiring Accessories

- Tvisha - Modular MCB

Reliable products to safeguard the Home Appliances

Introducing New Modular MCB upto 32A at 240V for Tvisha range of switches as per standard IS/IEC: 60898-1:2015 which is compatible for Flush/Surface type installation.



- Ivie/Tvisha – USB C type and A+C type

Fast charging solutions with ABB Dual port USB type sockets for Mobiles and Accessories.

Mobile and accessory charging solution with C type and A+C type USB charger port.

Available in 1M for C type and 2M for A+C with 3A fast charging capacity designed as per latest standard IS 13252(Part-1)



- Millenium and Zenit – BS type Metal Box

Introducing metal flush boxes as per BS standard type for Millenium and Zenit range

Made from GI with zinc coated sheet of 1.0 mm thickness for enhanced strength and durability.

Existing Product Line

ABB India Smart Power Offerings:

1. Emax- 2 Low voltage air circuit breakers

Emax -2 is the first circuit breaker having embedded ATS, adaptive load shedding, load management & Network Analyzer functions.

SACE Emax 2 sets a new benchmark for circuit breakers, addressing current and future grid requirements with its advanced features. It boosts system efficiency, safety, and performance, while offering innovative solutions for various project requirements, from standard setups to complex networks.



2. Tmax-XT Low voltage moulded case circuit breakers

SACE Tmax XT circuit-breakers equipped with Ekip Touch electronic trip units enable electrical measurements and diagnostic data to be displayed on the front of the switchgear.

Solution with a smartphone connected via Bluetooth to the trip unit thanks to EPiC.



3. ABB Ability™ Energy and Asset Manager

ABB Ability™ Energy Manager and Asset Manager is a state-of-the-art cloud solution that integrates energy and asset management in a single intuitive dashboard.

Providing full remote visibility of asset and electrical-system behavior, ABB Ability™ Energy and Asset Manager provides insights that help you minimize cost and risk and maximize performance and safety across your operations.



4. Ekip UP+

Ekip UP+ is a low-voltage digital unit that enables to monitor, control and protect the next generation of plants. Thanks to the built-in software-based function, Ekip UP+ is the unit that digitalizes the plant performance.



5. Universal Motor Controllers -UMC100.3

ABB's intelligent motor controllers combine motor protection and control functions, fieldbus and Ethernet communication, and fault diagnosis in a single device. They provide detailed operational, diagnostic and service data continuously, giving any plant an effective data source for predictive maintenance systems.



6. PSTx Soft Starters

ABB soft starters extend the life of a motor by protecting it from electrical stress. ABB Softstarters can also help you increase your productivity with many application-specific functions. Torque control, pump cleaning and many other functions allow you to do more than just a soft start.



7. Arc Guard System™ TVOC-2

ABB is a leader in electrical safety with the TVOC-2 Arc Guard System™ providing an unrivaled optical arc flash mitigation device with the fastest reaction time on the market. The TVOC-2 detects the light from an occurring arc flash and sends the signal to the breaker within 1 ms. Together with ABB's Emax 2 circuit breaker the total arc fault clearing time is less than 50ms.



8. Lite Panel

ABB Lite Panel is the switchboard HMI able to monitor and control until 28 electrical assets at same time, directly connected in the on-premise communication network, showing their data as digital twins through predefined templates.



9. TruONE™ ATS

The new TruONE is the world's first true all-in-one automatic transfer switch, engineered to incorporate switch and controller in one seamless unit. Performance tested beyond standard requirements, TruONE stands ready to ensure the steady delivery of critical power at all times.

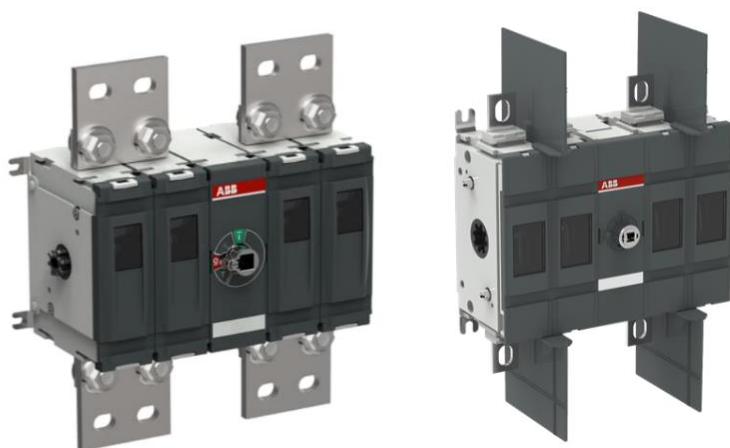
TruONE represents a major shift in engineering and a critical breakthrough for critical power.



10. OTDC Switches

OTDC switch-disconnectors provide robust and reliable switching and isolation in a wide variety of applications. Their efficient design makes your operations smoother and more sustainable.

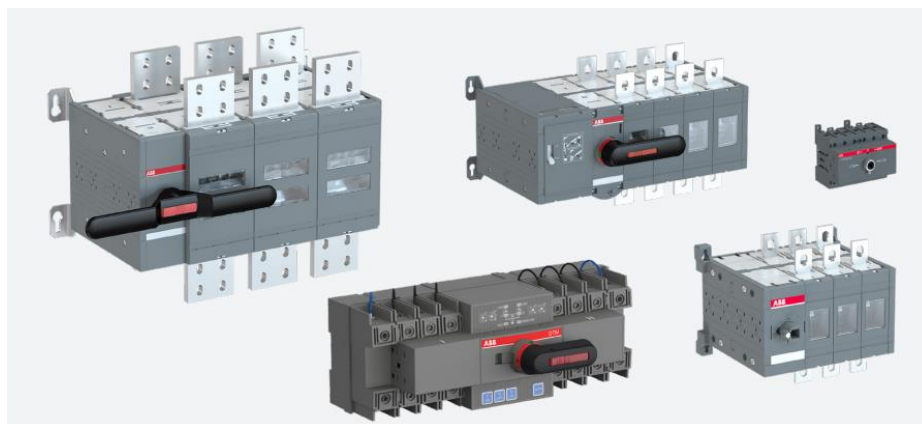
OTDC switch-disconnectors are suitable for many applications, such as solar/PV, Energy Storage System (ESS), EV Charging, marine, DC microgrids, DC datacenters, rail and DC distribution.



11. Manual & Motorized Changeover Switches OT/OTM

A secure power supply is essential to any application relying on electricity. We offer a full range of smart, safe and reliable change-over switches for your critical applications.

ABB's range includes switches that allow you to transfer from one source to another manually, remotely, or automatically.



12. Fuse switch- disconnectors

InLine II (ZLBM) keeps your electrical distribution system running and your people safe. Its superior performance and smart design enable a flexible and efficient installation and allow easy and safe operation and maintenance in any application.



Easyline (XLP) range of fuse switch-disconnectors ensures high protection and reliable operation in critical power applications, distribution boards, switchboards, capacitor banks.



13. Measuring and Monitoring Relays (CM-x)

Measuring and monitoring relays monitor and detect operating conditions with regard to phase, current, voltage, frequency, temperature, liquid level or insulation faults. The relays inform users about abnormal conditions and allow them to take necessary corrective actions before severe and costly failures can occur.



14. Smart temperature monitoring relays CM-TCN

CM-TCN relays are used to monitor the temperature of electric motors, control cabinets, busbars and to protect transformers from overheating.



15. Interface relays -CR-M

The ABB CR-M pluggable miniature interface relay range is used for electrical isolation, amplification and signal matching between the electronic controls – PLCs, iPCs or field bus systems – and the sensor / actuator level.



16. Power Supplies CP range

Available in four different ranges to cover every application requirement, CP range power supplies are used to empower your valued assets worldwide. Their excellent reliability in daily use has under the toughest of conditions and harshest of environments is proven.



17. Push-in Spring motor starting solutions

Meet the all-in-1 Push-in Spring motor starting solution. Now available with new connectors and busbars for faster installation, easier wiring and reliable performance.

Save up to 50% wiring time with Push-in Spring compared to conventional spring solutions. And the connections are just as reliable. So for speed, ease and reliability, just push it.



18. Pilot Devices

ABB pilot devices are engineered for totally reliability. Our products are tested to extremes and proven in the toughest environments. Their innovative design simplify the entire process, from selection to installation.



19. M4M20/30 Network Analyzers

Its ABB's first Bluetooth-equipped network analyzers, which guarantee accurate electrical measuring and power monitoring of all energy assets. The new M4M empowers digital transformation of buildings by leveraging the scalability of ABB's energy and asset management solutions.

M4M network analyzers gather information for the energy distribution system and connect them to the unique ABB Ability™, a cloud-based platform which gives users immediate access to actionable data on energy consumption and on-site power generation trends.



20. ArTu K Digital Low Voltage switchgear

The ArTu K digital low-voltage switchgear has been designed with the system concept and integrated with digital intelligent technologies, upgrading the traditional switchgear technology to become a smart member of the Internet of Things; it can be widely used in various industries, infrastructures, rail transit, high-rise buildings and other fields, providing users with digital solutions and services to ensure safer and more reliable power supply.

ABB India Smart Building Offerings:

1. Wiring Accessories

- IVE Switches

Premium light switch range, compatible in upgrading to home automation, easy installation, higher strength of frames, 10 years warranty*

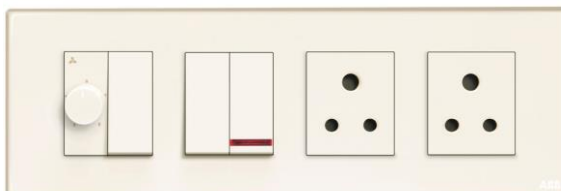
- Sleek and curvy design
- Premium finishes
- It can be integrated with ABB-free@home® automation
- Double Shrouded Switch
- Fan Regulator with 360 deg. operation



- Tvisha Antibacterial Switches

Modular Switch range, ISI certified, Equipped with anti-bacterial properties, Kills 99%* germs,

- Premium finishes
- Spark shield switches
- Child safety sockets
- Fan Regulator with 360 deg. operation

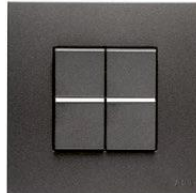


- Millenium Switches

- Ultra Slim 4mm.
- Rocker with Attractive Chrome profile with Metal frame supports
- Real Stainless Steel AISI 304
- First British Standard range with Ecodesign Certificate
- RoHS ISO 14006
- As per ISI certified for Switches/Sockets/Fan regulator



- Zenit Switches
 - Styling Trim
 - Functions with 4 finishes and plates with 13 color options
 - Screwless terminal for saving installation time
 - Eco Design
 - ISO14006
 - As per ISI certified for Switches/Sockets/Fan regulator



2. Energy Measurement and Monitoring

- ABB Energy Efficiency Portfolio- Measurement Made Simple
ABB offers a comprehensive range of metering solution from basic to advance meters. These solutions are designed to seamlessly cater varied industrial, commercial and residential applications. Along with which the circuit monitoring SCU100 & 200 system will help customers to monitor power consumption at final distribution level.



3. Final Distribution solution

Smisline TP – plug-in system for Reliable and Flexible Energy Distribution

- Safe, Flexible Plug-and-Play
- Safe Voltage Operation
- Tidy control cabinet
- Reliable energy distribution



4. Protection Devices and Enclosure

Quality of life, living comfort and safety. DIN rail devices- Complete protection and safety made easy. Portfolio covers:

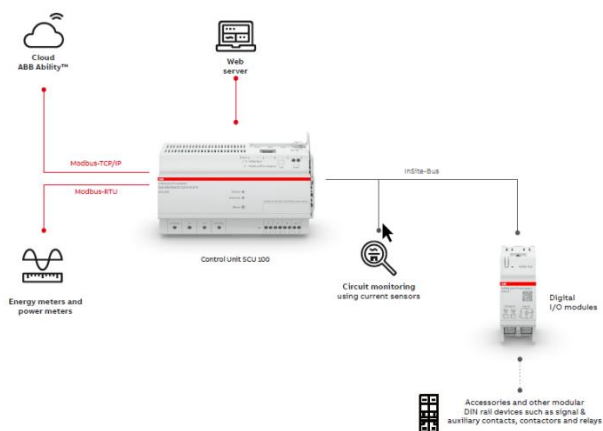
- Overcurrent (Over load and Short Circuit)
- 100Years of MCB's "A giant legacy of Electrical Safety"
- Residual Current Devices (RCD's-RCCBs and RCBO's)
- Surge protection Devices (SPD's)
- Arc fault detection devices (AFDD's).

Along with which ABB offers wide range of protection and safety, command and signaling, control and automation devices for final distribution. A wide range of IEC61439 and IS8623 Distribution enclosure/consumer units are available for residential, commercial, and industrial applications.

5. InSite energy management system SCU100

A connected solution for sub distribution monitoring.

- 96 single phase/ 32 three phase loads can be monitored through modular sensors by a single control unit.
- Wired connection to LAN that empowers cybersecurity.
- Higher mains current magnitude measurement possible, thanks to 5A current transformers.



6. InSite energy management system SCU200

A flexible solution for integrating wide range of different devices on a single platform.

- Enabled Wi-Fi connection.
- Higher number of Modbus devices can be connected to one control unit.
- Preferred solution in residential, small commercial, telecom and unmanned substations

