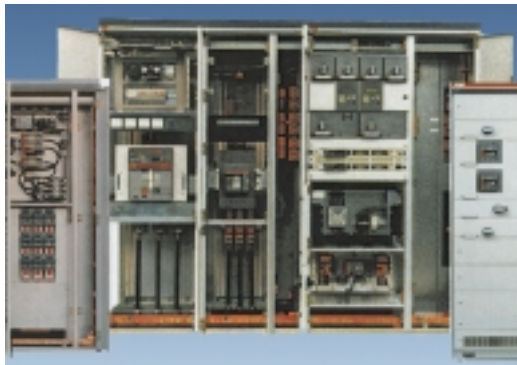


Low Voltage Products and Systems for buildings and industry

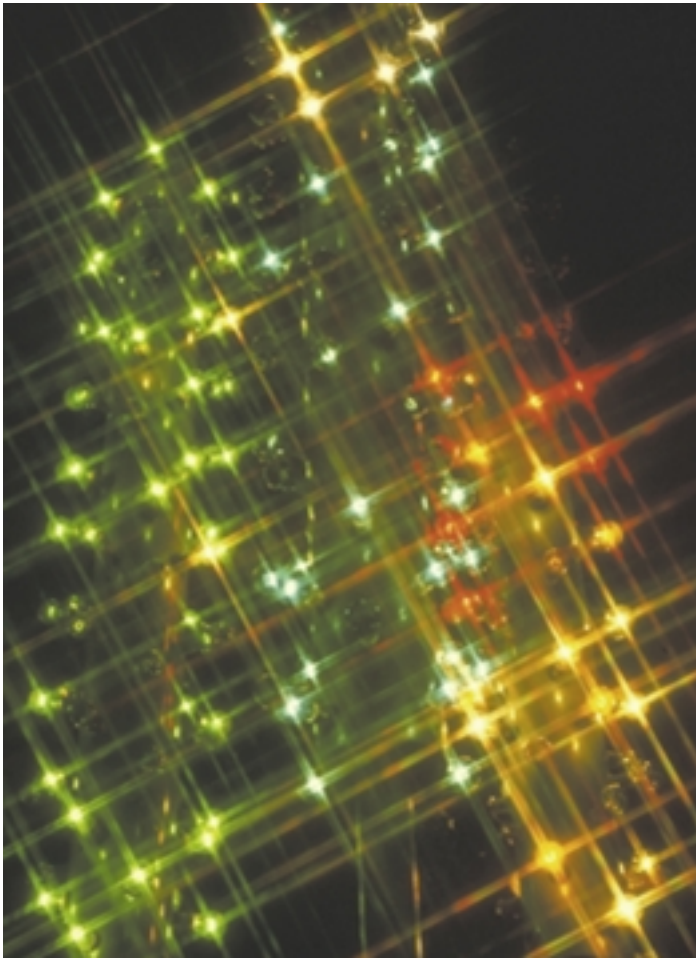


Low Voltage Products and Systems



Low Voltage Products and Systems for buildings and industry all over the world

At present electricity is the most commonly used energy, and certainly the most environmentally friendly. ABB plays an essential role in making this power available to everyone.



It starts with production, transport and distribution, the fields where ABB equipment has gained world-wide recognition.

ABB Low Voltage Products and Systems bring this energy to users, fulfilling their needs for power, safety and convenience.

Our products and systems provide constant proof of their reliability in residential and commercial buildings, in industry and power plants, in machinery and equipment of all kinds on every continent.

From 75 ABB manufacturing locations in 35 countries, our Low Voltage Products and Systems, supported by our unrivalled service, are

supplied to our customers by ABB sales organizations in over 140 countries.

A wide range of solutions

The design of any new product or system starts with a key focus on customer needs.

Tailor made

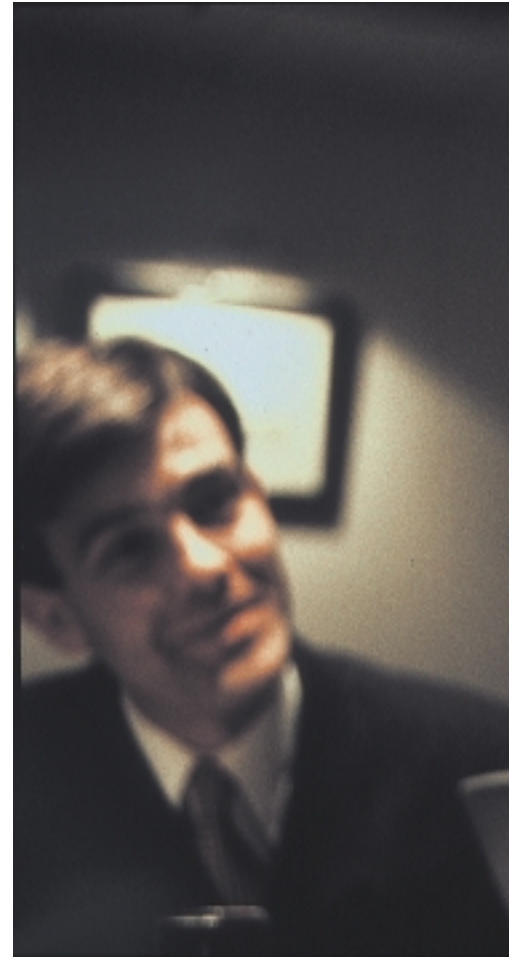
We provide solutions to suit every requirement. Each application has different critical factors such as: reliability, extremely long life, maintenance-free, cost effectiveness, etc. Our sales engineers and technical specialists work to identify the right solution for every customer need.

Local solutions for universal needs

The basic needs are the same everywhere: power distribution, protection, control, data acquisition, information processing and man-machine communication.

However, customers have to meet different local voltages, frequencies, safety standards, emission rules, etc.

All over the world, ABB Low Voltage Products and Systems provide the ideal international solution, fulfilling local requirements.



With dependable performance

Our products meet all essential international and national standards: IEC, EN, UL, CSA, etc. That is what our customers expect. It ensures that their own products and solutions are performing world-wide.

Reliability is the watchword throughout our world-wide plants. All our major production sites have received ISO 9001 approval and have introduced Environmental Management Systems according to ISO 14001, assuring consistent quality of products and systems.



And local support

ABB Low Voltage Products and Systems are never far away. Wherever you are in the world, our staff are on hand to help with solutions, products, systems, information, service, technical and logistic support.

In over 140 countries there is a fully staffed ABB organization, supported by an extensive distributor network.

Internet Database

Information about ABB Low Voltage Products and Systems is also available on the Internet.

Our www.abb.com/lowvoltage site provides a full overview and detailed technical information on our complete range of products and systems.

ABB's world-wide presence

The sun never sets on the ABB world-wide network: from Canada to New Zealand, from Sweden to Argentina, there is always an ABB company nearby to help with any low voltage requirement.



Thinking ahead

Research and Development

The ABB group employs 20 000 engineers and scientists working in 9 corporate research centres in 8 countries and cooperates with recognized universities and research institutes throughout the world. The results of this activity include spectacular inventions and improvements in technology, materials and production methods.

ABB Low Voltage Products and Systems draw on this Group effort and enhance it through our own research program. Innovative new products, upgrading of existing products and improvement of the day-to-day processes ensure our continued competitiveness.

We have recently undergone a major product generation change.

Ranges already launched include:

new powerful contactors, electronic overload relays, sensors, limit switches, PLCs, switches, moulded-case and air circuit breakers, wiring accessories, enclosures, softstarters, plugs and sockets, manual motor starters, plug-in line protection devices, intelligent building products, low voltage systems - to list just a few.





Environment: we care!

The ABB Group of companies is strongly concerned with environmental issues. In Low Voltage Products and Systems we strive to minimize costs for the whole life cycle of our products and to promote economic and environmental benefits for the users.

Life cycle assessment (LCA) tools have been installed at all R&D units to analyze new product solutions.

Some of the improvements achieved by our manufacturing companies so far are:

- recycling waste;
- using recyclable packing material such as paper instead of plastic;
- delivering products to OEMs in multi-usage transport containers;
- replacing thermosetting plastics in our products with recyclable thermoplastic materials;
- reducing the energy used for manufacturing products;
- eliminating cadmium from contacts.

Our effort in environmental management will continue and we are proud that all of our major production sites have implemented ISO 14001 and most of them have already been certified.

ABB Low Voltage Products & Systems: modern and comprehensive

Our products and systems are continuously developed and improved. During the last few years we have introduced important generation changes across our product families.

We offer one of the most comprehensive ranges of high quality products and systems available from any single supplier.

Our offer includes:

- circuit breakers ● control products ● line protection devices
- wiring accessories ● enclosures and cable systems
- switches and fusegear ● low voltage systems



Circuit Breakers

Our breakers offer full protection to all installations through a comprehensive range of moulded-case circuit breakers (MCCBs) and air circuit breakers (ACBs) according to European and American Standards.

They can be used in all industrial applications and for electrical installations in commercial and industrial buildings, as well as in specific applications, such as the shipping and mining industries.

ABB circuit breakers can be fitted with microprocessor-based releases, capable of interfacing with supervision and control systems.

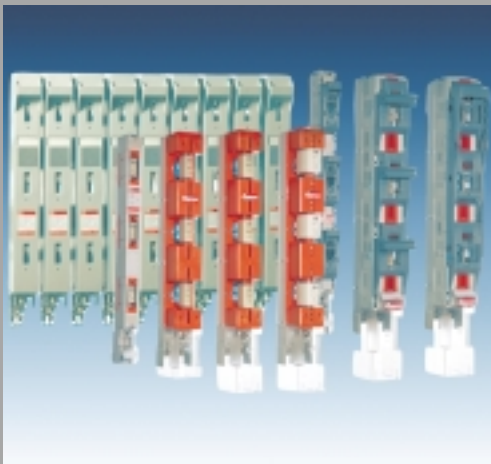
Air circuit breakers are available in five different sizes with rated currents up to 6300 A. Moulded-case circuit breakers are offered in eight basic sizes with rated currents up to 3200 A.

Control Products

Our program is already among the most extensive in the market and we are constantly adding new products in order to meet ever changing customer needs.

Quality and reliability are built into every device to ensure total performance satisfaction, even in the most demanding applications.

The A-line contactors, a system concept, co-ordinate physically, aesthetically and electrically with every type of ABB protection device. We offer a very modern and competitive range of softstarters, starters, proximity sensors, limit switches, manual motorstarters, a wide range of electronic relays and overload relays, together with an extended program of pilot devices and PLCs.



Switches and Fusegear

ABB is known throughout the electrical manufacturing industry and utilities as a world leader for switches and fusegear.

This reputation is based on a remarkable combination of reliability and high quality with breadth of coverage and competitiveness. We offer one of the widest and most competitive ranges in the world.

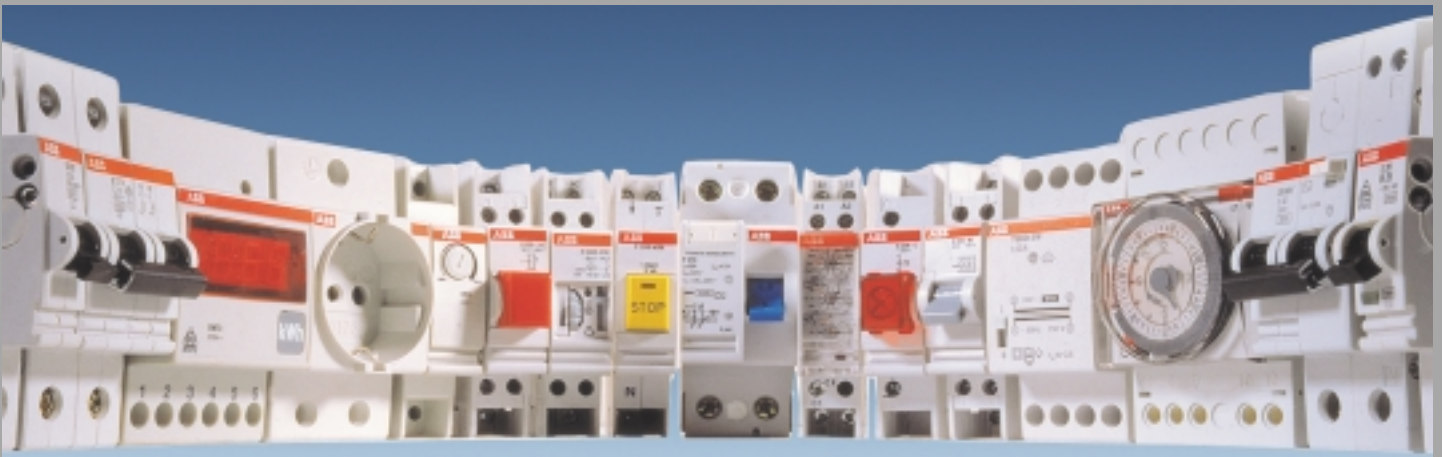
For a wide variety of applications ABB offers switch disconnectors, load break switches, enclosed switches, switch fuses, HRC fuse links, fuse bases, fuse switches, switch fuse disconnectors in tier type, fuse monitors and third harmonic filters.

Line Protection Devices

ABB is a world leader in line protection. Our range comprises of modular components and systems with protection, switching, control and measuring functions, together with accessories for connection and installation.

Programmable intelligent installation systems, based on the European Installation Bus standard EIB, transmit information via bus line or existing power line.

This ensure that electrical power is utilized with maximum safety, comfort and economy.



Wiring Accessories

ABB has achieved an unrivalled international environment, striving for continuous development of its product scope. We offer wiring accessories adapted to suit every core captive market, with all functionality and for every customer need.

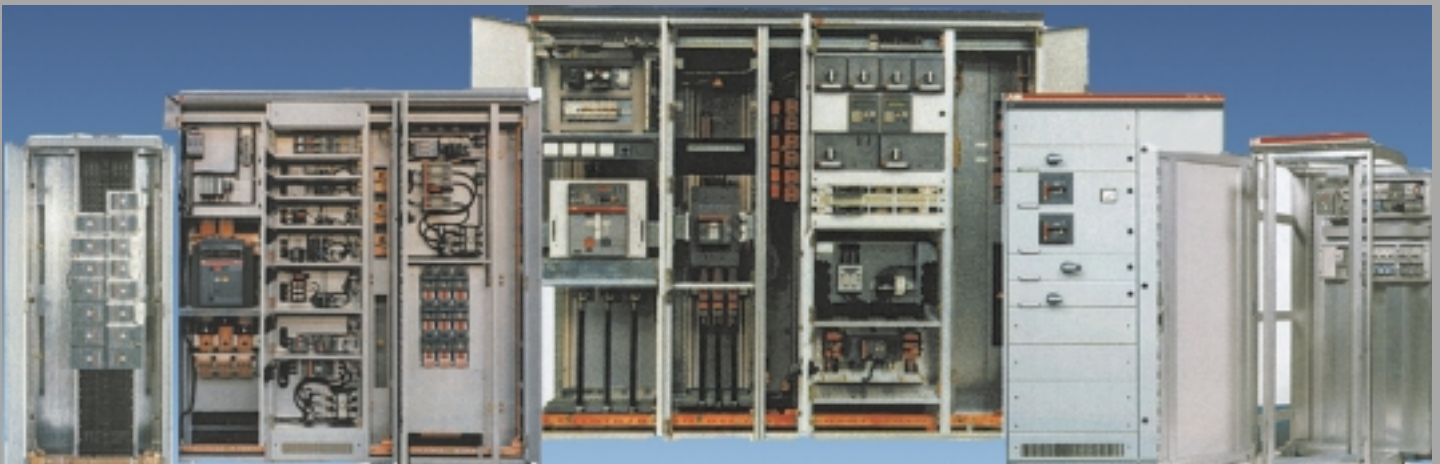
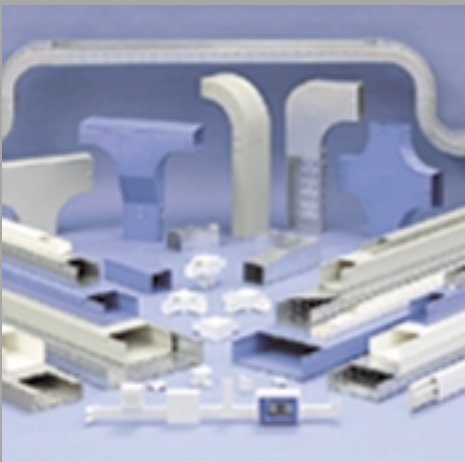
Numerous international design awards prove that our products are not only technically excellent, but also feature cutting edge design.

Our deep national roots are based on the proven trust and co-operation we have developed with local wholesalers and electrical contractors. This dual focus on both service and technological leadership, ensure that our customers receive both the best product and value.

Enclosures and Cable Systems

Our products exactly match the requirements of the different markets, in size, design, material and performance. They include: consumer units, sub distribution boards, main distribution boards, cable junction boxes, trunking systems, emergency switch boxes, modular “industrial plug and socket” switch boxes, multi purpose boxes, automation and distribution boards in sheet steel and plastic.

Enclosure and switchboard kits, bus-bar systems and application specific software complete the large range. Cable and trunking systems for building installation and switchboards are available in a selection of materials and aesthetical designs.



Low Voltage Systems

ABB is one of the world leaders in this market thanks to our global common product range. This enable us to provide optimal, fully engineered solutions for low voltage energy supply and for industrial processes and buildings. Global presence and local expertise are the twin keys to success. Intelligent and modular systems with highly standardized mechanics help to further increase the attractiveness of our offers.

Known throughout the world, our MNS®-family and our INSUM control system continue to set standards in LV switchgear business and confirm us in a market leading role.

Low Voltage Products and Systems

Domestic
and residential
buildings

We ensure safety and comfort for everyday life by bringing electric power to domestic appliances, lighting and heating. Through our comprehensive range of enclosures, line protection equipment, wiring accessories and various other components to complete any electrical installation we cover the full spectrum of equipment required

for control and protection of all domestic and residential installations.

For added convenience we offer intelligent bus monitoring and control of electrical installations. With this EIB system all electrical functions in a home can now be programmed and remotely controlled.



Commercial
and industrial
buildings



All over the world office buildings, hospitals, hotels, public buildings, shopping centers, sport complexes and city lighting projects are equipped with ABB Low Voltage Products and Systems.

From switchboard to light switch we cover the complete range of equipment required for

control and protection of electrical installations.

Architects, consultants, builders and contractors appreciate the performance/cost ratio provided by our products. They have made ABB a well known reference for high quality and extremely reliable electrical equipment.

for every application

We have a prominent presence in many fields of industry: steel, oil, pulp and paper, food processing, pharmaceutical and chemical industry, water and waste treatment, transport, electrical power generation and many others.

We provide all necessary products and systems enabling distribution of electrical energy,

motor starting and control, protection and system control.

Our customers value ABB equipment for its dependability, durability and excellent performance/price ratio.

They also know that it is fully supported by our world-wide technical advice and assistance network.

Industry
and
Process



Machine and original equipment manufacturers incorporate our products and systems in the equipment they build, in machines they export, in transport vehicles, etc.

We are especially strong in drives, wind-power applications, compressors, power supply, pumps, air conditioning, eleva-

tors and escalators.

Our products meet both national and international standards, are capable of exceptional performance under all service conditions, supported by full technical back-up. We contribute to making our customers' products perform world-wide.

Machines
and
Equipment

From many world class specialists

ABB Low Voltage Products and Systems are manufactured in 75 locations in 35 countries, around the world. Everywhere the same quality rules are applied. All our major plants are ISO 9001 approved and most of them already ISO 14001 certified. A world-wide uniform approach to quality standards is applied for our products and systems.



ABB has sought out the foremost specialists to staff its laboratories, research & development sites and production plants. All our staff are proud to be part of ABB, one of the leading international groups of companies.

ABB has an international tradition of excellence dating back well over 100 years and we work constantly to sustain and improve it.

In domestic, residential, commercial or industrial buildings, in industrial applications, machines or equipment, our products are ambassadors of this tradition in every country. They bear the ABB logo as a seal of quality.

a single supply source

The full range of ABB Low Voltage Products and Systems can be obtained from your local ABB sales company and its distributors.

We are the innovative, reliable and friendly partner for Low Voltage Products and Systems, bringing electrical power to buildings and industry all over the world.

www.abb.com/lowvoltage



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