

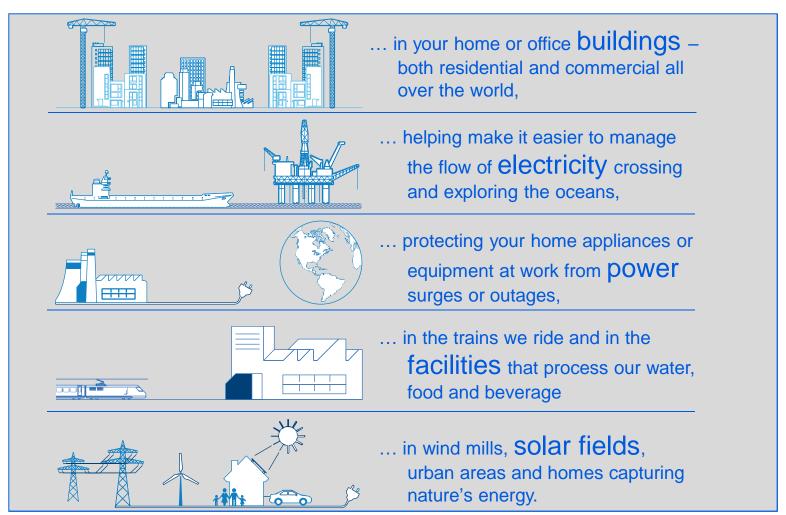
Division overview

Low Voltage Products Overview presentation - 2015



Power and productivity for a better world ¹⁹

Low Voltage Products are all around us You will find them...





A global leader in low voltage technologies Leading market positions in main businesses





Global offering Connection, protection and control



Electrical installation



Electrical distribution



Automation, control & protection



Building automation



Residential products



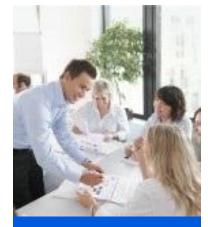
Global offering Added value support and services



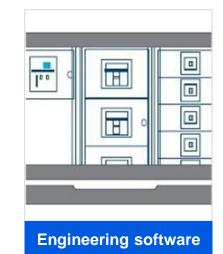
Service



Technical support



Training



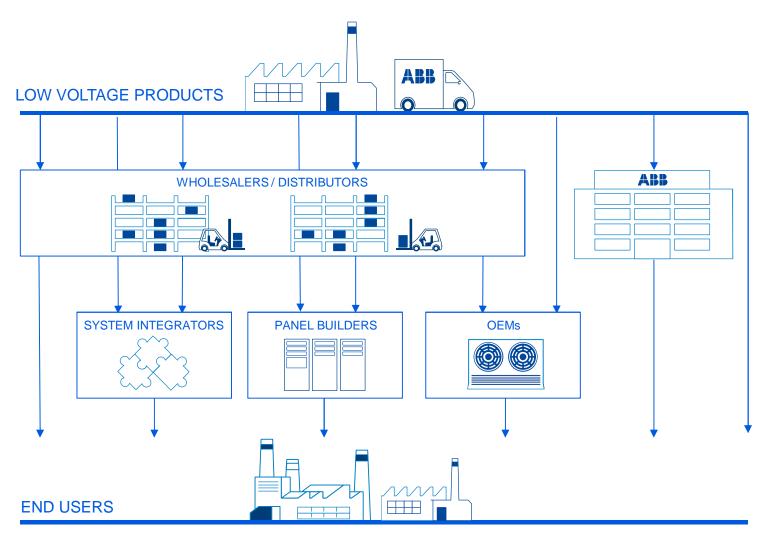


Marketing support



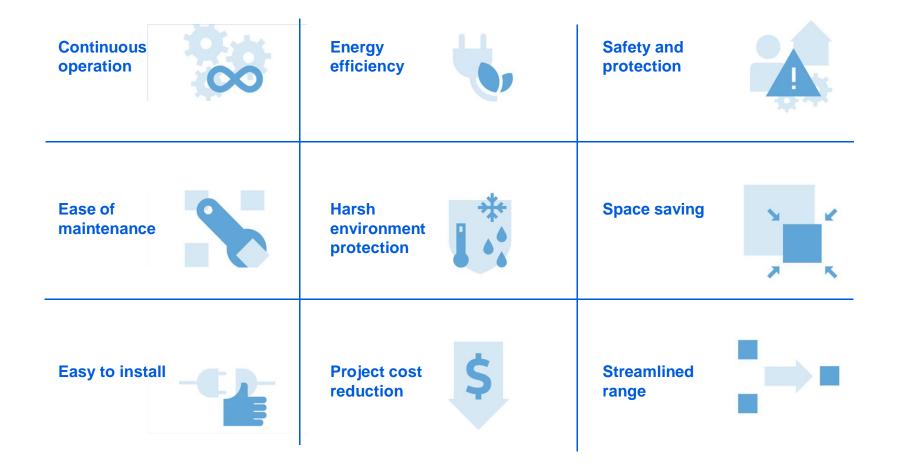
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Customers we serve Supporting multiple routes to market





Solutions focus Supporting customers with their toughest challenges





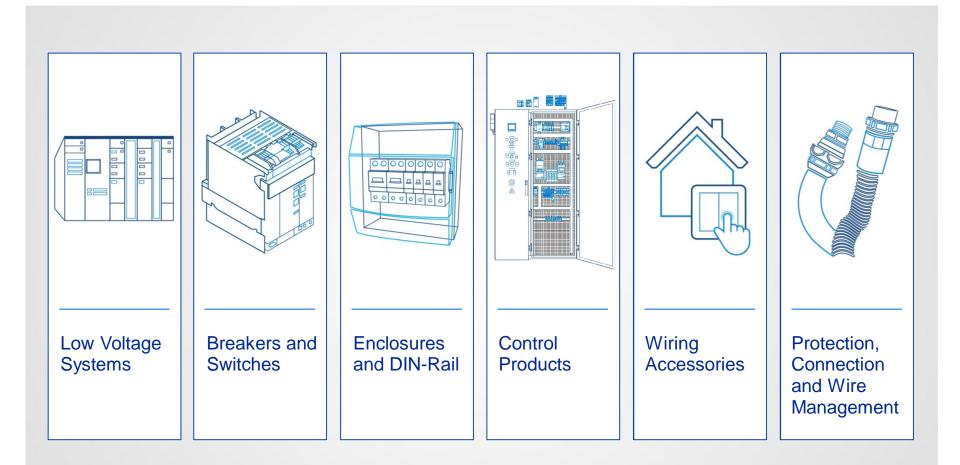
2014 performance Financial data

US\$ millions unless otherwise indicated	2014* Full year	2013 Full year
Orders received	7,550	7,696
Revenues	7,532	7,729
Operational EBITDA	1,429	1,468
Operational EBITDA margin	18.9%	19.0%
Employees	≈30,000	≈32,000

* incl. 5 months of HVAC and 7.5 months of Steel Structure divested businesses



Low Voltage Products Business Units





Low Voltage Products Low Voltage Systems



MNS conventional switchgear and motor control

Scalable, modular low voltage switchgear suitable for basic switchgear needs to high end motor control center and power distribution systems

MNS intelligent switchgear and motor control

Scalable, modular low voltage switchgear incorporating leading edge intelligent motor control and power distribution technology. Suitable for basic switchgear needs to high end motor control center and power distribution systems

MNS iS integrated switchgear and motor control

Integrated intelligent system technology featuring fully segregated power and control cable compartment, system scalability, future proof with ease of upgrades and switchgear condition monitoring functionality

Non-system product packaging and electrical system integration

NSPP provides a single point of contact for customers where bundles or packages of products from several ABB divisions or product groups are required, which may include basic interface engineering. Electrical system integration solutions maximize ABB's portfolio of energy distribution systems for all voltage levels delivering high quality energy management and condition monitoring solutions

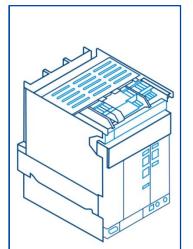
Service

Global delivery and service network coverage in five continents

Low



Low Voltage Products Breakers and Switches



Circuit breakers

Moulded Case Circuit Breakers (MCCB), Air Circuit Breakers (ACB)

Switches

Switch-disconnectors, switch fuses, cam switches, change-over switches, enclosed and safety switches

Fusegear and CDCs

Switch fuses, fuse switch disconnectors, fuse links, fuse monitors and enclosures with busbar system and apparatus

Power enclosures

Primary and main distribution boards, industrial and medium sizes automation boards, console panels and panel board

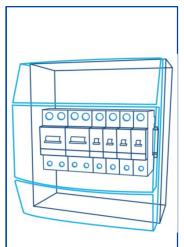
Service

Service agreements, training, spares and consumables, maintenance and repairs, replacement





Low Voltage Products Enclosures and DIN-Rail



Distribution Enclosures

Consumer units, distribution enclosures and automation boards and boxes

DIN-Rail Products

Miniature Circuit Breakers (MCBs), Residual Current Devices (RCDs), Surge Protective Devices (SPDs), and other modular DIN-Rail components for measuring, signaling and other functions

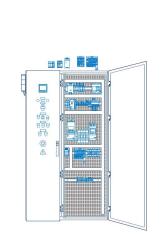
Building Space

Complete range for automation and control in residential and commercial buildings including lighting, heating, ventilation, cooling, blinds, security, energy management and interfaces to other control systems

Enclosures and DIN-Rail



Low Voltage Products Control Products



Motor protection and control

Manual motor starters, contactors, overload relays, softstarters, pilot devices, arc guard, limit switches, voltage sensors and detectors

Connection

Terminal blocks (screw, PI-Spring, pluggable, stud, IDC...), test blocks, PLC wiring system, markers and marking systems

Electronic products & relays

Electronic timers, measuring and monitoring relays, power supplies, interface relays and octocouplers, signal converters, logic relays and motor controllers

Control Products

Safety products

Complete machine safety solutions including safety relays, safety controllers, safety PLCs, light guards, control devices, emergency stops, switches and sensors, locks, fencing and pressure sensitive devices



Low Voltage Products Wiring Accessories



Switches and Sockets

Flush and surface mounted, for dry and water-proof applications with full range of accessories in various designs and price segments

Conventional Electronic Inserts

Complete range on not bus based electronic inserts like thermostats, dimmers, timers, audio components like radios to deliver the customer comfort, efficiency and safety

Movement and Presence Detectors

Wide range of design orientated solutions to detect motions and movements and as well to detect presence to increase the comfort, to use energy more efficient and deliver more security and safety in commercial as well in private sectors

Living Space® Systems

Complete range for automation and control in residential and commercial buildings including lighting, heating, ventilation, cooling, blinds, security, energy management and visualization with the focus on design, comfort, safety and leading edge interface and product design

Door Entry Systems

Wide range of door communication and access control solution for private and commercial applications from a villa to a big office building

Industrial Plugs and Sockets

Wide range of industrial sockets and plugs for a wide range of special applications and conditions

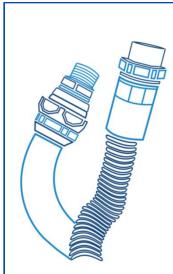


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Wiring

Accessories

Low Voltage Products Protection, Connection and Wire Management



Wire Management and Connectivity

Cable ties, wire termination, wiring duct, metal framing, cable tray, earthing and lighting protection, compression lugs

Flexible & Rigid Conduit Systems

Flexible nylon and metallic conduit systems, rigid conduit systems, fittings and glands

Emergency Lighting and Battery Systems

Exit signs, emergency lighting, monitoring systems, central battery systems, decorative lighting

Connection, Protection and Wire Management

Explosion Protective Components and Systems

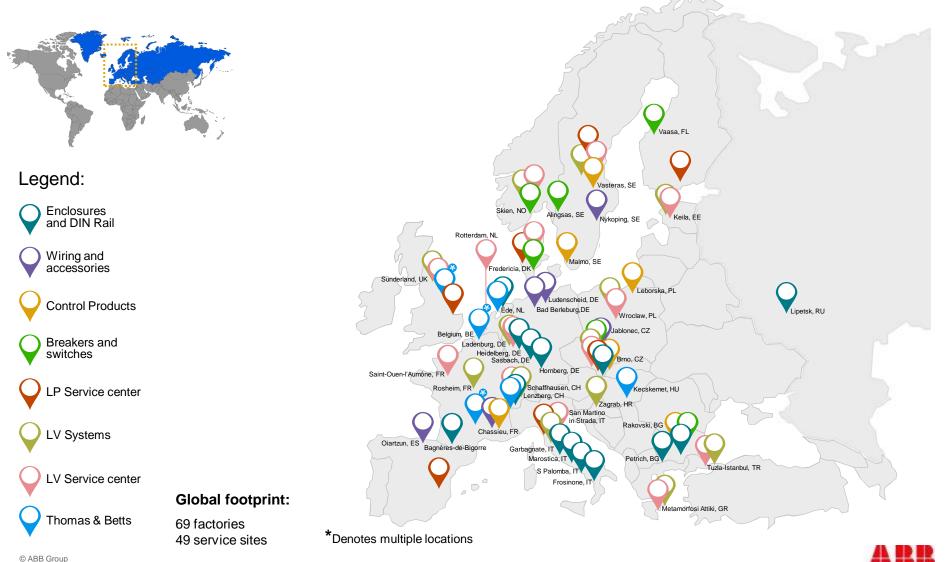
EX-proof lighting, enclosures, junction boxes, cable glands, cable protection, cable ties

Cable Apparatus and Accessories

Hi-Tech fuses, faulted circuit indicators, airfield lighting, cable accessories, apparatus switchgear reclosers, utility distribution connectors

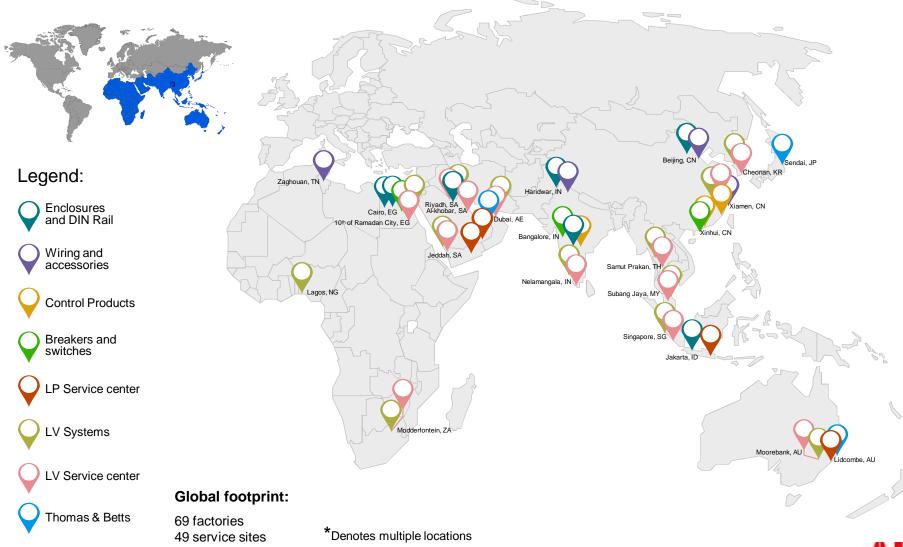


Low Voltage Products Global footprint: Europe and Mediterranean



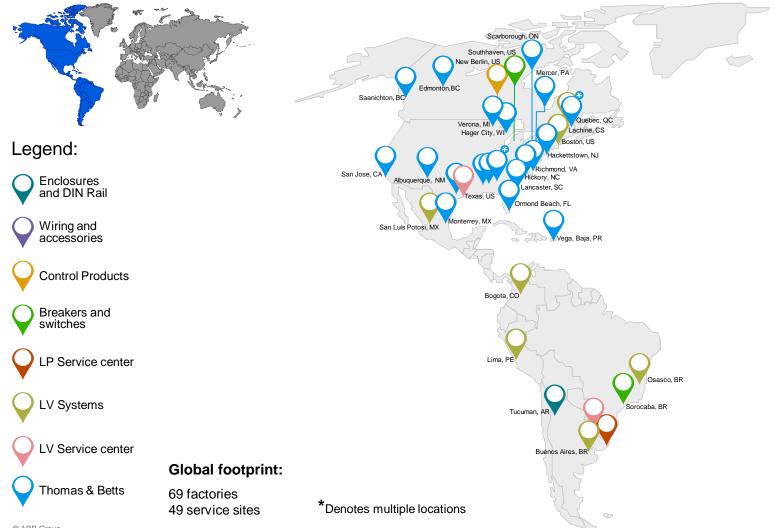
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Low Voltage Products Global footprint: Asia, Middle East and Africa





Low Voltage Products Global footprint: Americas





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Power and productivity for a better world[™]

