ELECTRIFICATION BUSINESS

Low voltage systems and solutions

- Residential Components and Distribution Boards
- Industrial Breakers
- General Purpose Enclosures
- System Enclosures
- Controls and Power Electronics
A complete offer for
Low Voltage applications

Distribution boards — SEN Plus
Rated voltage: up to 690Vac / 600Vdc
Rated current: up to 7600A

MCCBs
acc. EN/IEC 60947-2/UL489

Special contactors
for capacitor protection

A full range of contactors
and auxiliaries, according to
EN/IEC 60947-4

Moulded case circuit breakers — Record Plus*
Selective and current limiting
Rating: from 8A to 1600A

Power circuit breakers
— EntelliGuard*
Rating: from 400A to 6400A

A wide range of push-buttons, round and square, in metal and in engineering thermoplastic, illuminated, with or without key

A full range of modular DIN-rail devices
MCBs acc. EN/IEC 60898-1 and
EN/IEC 60947-2 Add-on RCDs acc. EN/
IEC 61009-1 RCCBs acc. EN/IEC 61008-1
RCBOs acc. EN/IEC 61009-1 Switches,
timers, contactors, surge arresters,
measurement devices.

Disconnector loadbreak switches and
disconnector loadbreak switches
from 16A to 4000A. Fused disconnector loadbreak switches from 32A to 1250A. According to EN/IEC 60947-3 and UL 508 (listed).

A full range of starters: Direct-on-line,
Star-Delta, Reversing ASTAT Softstarters
AF-6/VAT Variable speed drives for
commercial and industrial motors

A full range of enclosures to house your equipment; plastic or metallic, for indoor and outdoor use. For industrial as well as residential and commercial applications. According to EN/IEC 60529).
Controls and Power Electronics

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**Push-buttons**

Industrial push-buttons and switches
*Series P9* — Ø 22.5 mm
*Series 077* — Ø 30 mm

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**Motor protection devices**

**Surion**
Thermal and magnetic protection. Standard and high breaking capacity. Rocker and rotary handle operator

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**Contactors**

Four ranges, 3 and 4 poles
*Series M* — from 6 to 9A in AC3
*Series CL* — from 9 to 105A in AC3
*Series CK* — from 150 to 780A in AC3

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**Overload relays**

To fit on the four contactor ranges:
*Series MT* — from 0.11 to 14A setting
*Series RT* — from 0.16 to 110A setting
*Series RT* — from 55 to 850A setting

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**Plug-in relays - Series**

**PRC**
Miniature, 8-11 pins and interface
Industrial Breakers

**Record Plus***
Moulded case circuit breakers

Selective and current limiting
- Frame FD up to 160A
- Frame FE up to 250A
- Frame FG up to 630A
- Frame FK up to 1600A

Breaking capacities from 22kA up to 150kA. In 3 and 4 poles, fixed or withdrawable versions. For line, motor and generator protection.

In accordance with EN/IEC 60947-2

**EntelliGuard***
Power circuit breakers

Uncompromising, fast and selective
- Frame T (compact)
  - 400A to 1600A - 50kA and 65kA
- Frame 1
  - 400A to 2000A - 50kA and 65kA
- Frame 2
  - 400A to 4000A - 50, 65, 80 and 100kA
- Frame 3
  - 3200A to 6400A - 100kA and 150kA

Fixed pattern and withdrawable type.
In accordance with EN/IEC 60947-2

**Dilos**
Loadbreak disconnectors

From 16A up to 4000A.

**Fulos**
Fused loadbreak disconnectors

From 32A up to 1000/1250A.

**Trip Unit Toolkit**
A broad and expanding set of tools designed to monitor, set, and customize the data present in the ABB range of EntelliGuard, PremEon* and MET trip units.

**Gerapid**
High speed DC breaker

From 2600A up to 10,000A

A wide range of models with rated voltages up to 3900V
System Enclosures and Distribution Boards

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**VMS**
Modular enclosures system

Modular enclosures of glass-fibre reinforced polycarbonate.

IP65 - IK08
According to IEC 60439-1

Modular dimensions in increments of 100 mm in height and width, in five sizes:
- 320 x 220 mm
- 320 x 320 mm
- 440 x 320 mm
- 640 x 320 mm
- 640 x 440 mm

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**QuiXtra* 4000**
Low voltage distribution board for commercial and industrial environments.

IP30 and IP55
According to IEC 61439-2

Range of 11 different enclosures:
- 1 height, 2155 mm
- 3 widths: 447, 743 and 959 mm
- 3 depths: 450, 600 and 800 mm

Rated operational voltage: 415V, 690V
Rated current up to 4000A

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**QuiXtra* 630**
Low voltage distribution board for commercial and industrial environments.

IP43
According to IEC 61439-2

Range of 24 different enclosures:
- 9 heights, from 450 up to 1800 mm
- 3 widths: 364, 660 and 876 mm
- 1 depth: 250 mm

Rated operational voltage: 415V
Rated current up to 630A

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**SEN Plus**

A comprehensive range of low voltage switchgear applications:
- Withdrawable and fixed power centres with air circuit breakers
- Distribution panels with fully withdrawable or fixed versions for MCCBs and fuse switches
- Motor control centres with fully withdrawable or fixed technique for fused/fuseless motor starter applications
General Purpose Enclosures

ARIA
Multipurpose polyester cabinets

IP66 - IK10
UL - CSA - AS

7 sizes, from 315 x 215 x 170 mm up to 1035 x 835 x 300 mm.

In self extinguishing and halogen-free polyester. Maintenance-free and corrosion-resistant.

PolySafe
Multipurpose polyester cabinets

IP65/IP54 - IK10 - UL - CSA

14 standard dimensions, from 500 x 500 mm up to 1250 x 1000 mm. One depth: 320 mm.

Cabinets are standard factory assembled (empty or equipped).

APO
Modular polyester boxes

IP67 - IK10
UL - CSA - AS - Lloyd's

Nine basic enclosures from 185 x 150 x 130 mm up to 600 x 600 x 175 mm. Greater depth is obtained by depth extension frames.

MultiBox
Small multipurpose boxes

IP66 - IK07/08 - cUL

11 basic sizes, from 65 x 65 mm up to 361 x 254 mm. With 5 cover depths.

Made of polystyrene or glass-fibre reinforced polycarbonate.

EH
The widest range in the world — IP23 to IP54

Cabinets for underground cable distribution. More than 30 enclosures, in various configurations: DIN and non-DIN size, with double compartments, with increased depth, with front and rear doors. Providing solutions to various applications.
Residential Components and Distribution Boards

**Redline**

Miniature circuit breakers
- From 0.5 to 125A — 1 to 4P configuration. From 3kA to 50kA breaking capacities
- According to EN/IEC 60898-1 and EN/IEC 60947-2
- Unibis* - compact MCBs (2P in 1 mod., 3P/4P in 2 mod.), up to 10kA
- Fixwell* - screwless MCBs, 6 and 10kA

**Fix-o-Rail**

Insulated enclosures
- 2 to 144 modules
- Surface mounting and flush mounting

Add-on RCDs
Add-on residual current devices for MCBs
- For 2 to 4 poles MCBs, 30 up to 1000mA
- According to EN/IEC 61009-1

**RCCBs**
Residual current operated circuit breakers without integral overcurrent protection.
- From 16 to 100A and 10mA to 1000mA.
- According to EN/IEC 61008-1 and BS EN 61008-1

**RCBOs**
Residual current operated circuit breakers with integral overcurrent protection.
- From 4 to 40A and 10mA to 1000mA, 1P+N.
- According to EN/IEC 61009-1
- Fixwell* — screwless versions

**Fix-o-Rail Senior**
Metallic enclosures
- 48 to 288 modules
- Surface mounting

Energy control and comfort functions
Modular switches and push-buttons, impulse switches, contactors, time switches, time relays, transformers, measurement devices, surge arresters, automatic reclosing system

**Junction boxes**
- Flex-o-Box Junior — 2.5 mm² — IP65
- Flex-o-Box — 6 mm² — IP65
- Series 55 — 10 up to 25 mm² — IP66
- Terminal blocks/clamps.
ABB (ABBN: SIX Swiss Ex) is a pioneering technology leader in electrification products, robotics and motion, industrial automation and power grids, serving customers in utilities, industry and transport & infrastructure globally. Continuing a history of innovation spanning more than 130 years, ABB today is writing the future of industrial digitalization with two clear value propositions: bringing electricity from any power plant to any plug and automating industries from natural resources to finished products.

In 2018, ABB completed the acquisition of GE Industrial Solutions, the GE’s electrification solutions. Industrial Solutions will be integrated into the ABB’s Electrification division. GE Industrial Solutions and ABB’s product portfolio are very complementary. Together, this is an extensive combined portfolio, with a broad-global anchoring, sales team and distribution network.

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