xComfort
Compact Distribution Boxes -
Home game for a safe electrical installation system

F·A·T·N

Powering Business Worldwide

Yesterday, the future was yet to come. Today, it's already here.

The future has already begun.

For us, innovation is tradition: in 1957 Eaton's Moeller segment developed the first fault current protection switch, and with this, a new era of electrical safety engineering began. And now, Eaton is still ahead of its time: the new digital switchgear range in the Eaton xEffect series communicates potential problems in advance and sets new standards in precision, security and convenient service.

Maximal safety with optimal ease

Modern Residual Current Circuit Breakers (RCCB) protect people and technical equipment conveniently and reliably against faulty currents. The digital RCCB from the xEffect series do more than just switch off. They monitor electrical installations and give advance warning of critical current flows. So plant/factory shutdowns – and the resulting costs – can be avoided.

Precise Release – Highest Reliability

Short-time fault currents or other briefly occurring malfunctions do not cause the digital protection switch to shut down, thanks to the short time delay and optimized tripping threshold. So the electrical installation is optimally protected against nuisance tripping.

Easy and adaptable installation for fast modernization

The big Eaton plus: It is very easy to upgrade a switchboard! Simply replace the RCCB – and you have all advantages of digitalization.

xComfort Compact Distribution Boxes

Micro Compact distribution boxes

The smallest distribution board of this product family fascinates the user especially with its extremely fast way of attaching the device cover which automatically snaps into position thanks to an innovative locking mechanism. So screwing down or unscrewing the device cover is no longer necessary at all. For up to 2 or 4 module units

Benefit:

- Time-saving thanks to the extremely fast way of attaching the device cover using an innovative locking mechanism.

Features:

- Degree of protection IP30 (IK05)
- Surface-mounted
- Protection class II, totally insulated
- 1-row, 2 and 4 module units

- No tools required for enclosure assembly
- Support rail made of plastic
- Enclosure made of high-quality ABS plastic
- No window
- Glow wire test 650°C

- Pre-punched metric areas for cable entryall around
- Body RAL 9003
- Possibility of direct fixing on the wall, no need to drill holes into the enclosure

Mini Compact distribution boxes

It is the diversity of this member of the family that makes it so outstanding. An overall sufficient number of articles can be ordered to meet all the requirements of real life situations, from 2 to 6 module units, with or without a window, with or without connection terminals, and with a top-hung window as an option for retrofitting.

Benefit:

- Due to its diversity, it is the ideal solution for any application – available with or without connection terminals and with a top-hung window suitable for retrofitting.

Features:

- Degree of protection IP30 or IP20 (IK05)
- Surface-mounted
- Protection class II, totally insulated
- 1-row, 2, 3, 4, 5 and 6 TE
- Support rail made of plastic

- Enclosure made of high-quality ABS plastic
- Either with or without a window
- Window lead-sealable
- Glow wire test 650°C

- Pre-punched metric areas for cable entry all around
- Body RAL 9003
- Possibility of direct fixing on the wall, no need to drill holes into the enclosure

ECO Compact distribution boxes

Both as a surface-mounted and flush-mounted compact distribution board, this product series made of plastic attracts the customers' attention above all through its slim design and its interesting price/performance ratio. Truly classic products are its 12-module-unit versions which are usually used in hotel projects.

Benefit:

- Attractive price-performance ratio
- Slim design

Features:

- Degree of protection IP40
- Surface mounted / flush: 1-row, 5, 8, 12 and 18 module units
- Surface mounted / flush: 2-rows, 24 and 36 module units

- Surface mounted / flush: 3-rows, 36 module units
- Surface-mounted: 3-rows, 54 module units
- Protection class II
- Glow wire test 850°C

xComfort Compact Distribution Boxes

KLV Compact distribution boxes

The second generation of the successful KLV compact distribution board series provides even more flexibility. The product family has now been complemented by new flush-mounted and hollow-wall distribution boards as well as by expandable KSK combined plug-type terminals included as standard. Additional cable holders allow for neat wiring. The stable device cover offers optimal protection for the operator, which is especially important for the large 4-row version. The highlight is the new 3D plaster compensation which not only provides for corrective compensation in X and Y direction, but also for depth compensation for up to 18mm over the entire door frame. So any differences in the wall surface can be compensated in a time-saving way and without any additional parts thanks to this new standard feature. Another characteristic aspect is the version with a unique, super-flat door frame design which makes the compact installation distribution board almost invisible. The new offer is completed by integrated marking slots in the wall pan, a bubble level for fast alignment, 90° quick-acting closures at the device cover and many new accessories offered as options to add even more value. Thanks to its certification as a compact installation distribution board according to IEC/EN 60670-24 as well as to EN 62208, the KLV compact distribution board is the first choice for both small and large projects.

Projects - form of delivery 4PR

The second generation of the KLV compact distribution board series is also offered as a new project delivery form 4PR, which includes both the one-level and the two-level package.

While the one-level package represents the standard configuration including the wall pan, the two-level package optionally includes the doors/frames in the required RAL colour or with ventilation slots. So large projects, for example, can be executed using standard finishes or individually selected colour options.

Benefit:

- Clearly structured wiring thanks to additional cable holders
- Optimal protection for the operator thanks to the stable device cover
- Easy and time-saving to mount thanks to
  - 3D plaster compensation
  - Integrated marking slots
  - Bubble level for fast alignment, and quick-acting closures at the device cover

Features:

- Degree of protection IP30
- 1 to 4 rows, 12 module units and 2 spare MUs in each row
- Multimedia variants
- Hollow-wall and flush-mounted versions
- Flat and super flat door design

- Integrated spirit level
- 3D plaster compensation
- Terminals for neutral and protective conductors
- N-FI expansion terminal (FI = RCD = Residual Current Device)
- Pre-punched cable entries on all sides

- Protection class II, fully insulated
- Door and cover frame, sheet steel RAL 9016
- Low halogen level

xComfort Compact Distribution Boxes

KLV Multimedia DBs

The second generation of the KLV compact distribution board series now has a new family member – the multi-media distribution board. Equipped with the same enclosure features as the energy KLV distribution board, the multi-media distribution board meets the requirements of the new IEC/EN 60670-24 directive for multi-media applications in GP standard. Its high-quality basic equipment includes a carrier rail for patch modules, a micro-perforated mounting plate, device holders and a double power-socket, and it is completed by connection brackets for interlinking the wall pans in pairs.

KLV multi-media distribution boards are available in a normal-flat (F) as well as in a unique super-flat (SF) version. The doors come with ventilation systems for improved heat exchange. Like the energy distribution board, the multi-media KLV compact distribution board also includes the 3D plaster compensation in its scope of delivery.

Benefit:

- Same equipment as the KLV compact distribution board
- High-quality basic equipment with a carrier rail for patch modules, a micro-perforated mounting plate, device holders and a double power-socket
- Improved heat exchange thanks to doors equipped with ventilation systems

Features:

- Degree of protection IP30
- 3 to 4 rows
- Hollow-wall and flush-mounted versions
- Flat and super flat door design
- Integrated spirit level
- 3D plaster compensation
- Top row carrier rail
- Micro-perforated mounting plate
- Cable holder
- Device holder
- 2x 1-fold electricity socket
- Pre-punched cable entries, on all sides
- Protection class I
- Door and cover frame, sheet steel RAL 9016
- Low halogen level
- IEC/EN 60670-24

xComfort Compact Distribution Boxes

IKA Surface-mounted compact distribution boxes, IP65

The easy-to-mount PE/N terminal rails, fixing possibilities directly at the wall without having to drill holes into the enclosure, and the spacious distance of 150 mm between the terminal rails allow you to install the IKA distribution board in an extremely convenient and fast way. Changing the door hinges can be done within seconds, without having to remove the cover or any other parts of the enclosure. Height-adjustable, stable device carrier rails and pre-punched holes for cable entries with a centration point are just a few of the many highly appreciated features, and the possibility of lead-sealing the enclosure cover and door comes as a standard feature as well, all without the need for any additional parts.

Highlights are the large wiring area under the carrier rail of 46 mm, the integrated module compensation in the cover used to compensate the different widths of the devices, and the possibility of installing additional functional units in the bottom panel of the enclosure.

Safe – thanks to the high degree of protection IP65, the foamed all-round sealing and the robust, halogen-free construction design of the door and body, safe operation with the IKA industrial distribution board made of polycarbonate can be guaranteed even in harsh industrial environments. More flexibility – thanks to 9 sizes with 4, 6 and 8 module units as well as with 12, 24, 36 or even with 18, 36 and 54 module units, you will find the optimal distribution board solution for any application and situation.

As the IKA surface-mounted compact distribution board meets the requirements of the EN 62208 and IEC/EN 60670-24 standards, it is the first choice for large projects according to IEC/EN 61439 as well as for small projects.

Benefit:

- Quick and easy to install thanks to the easy-to-mount PE/N terminal rail, fixing possibilities directly at the wall without having to drill holes into the enclosure and a spacious distance between the rails
- Reversing the door hinges can be done within seconds
- Pre-punched holes for cable insertions with a centration point
- Lead-sealing of enclosure cover and door does not require any additional parts

Features:

- Degree of protection IP65
- Protection classII, fully insulated
- Industrial version (PC) or PRO/Standard version (ABS)
- 1 to 3 rows, 12 and 18 module units
- Mini module with 4, 6 and 8 MU
- Glow wire test 850°C or 650°C
- CNC foamed sealing
- Fully removable DIN support rack
- Up to 46 mm wiring area under the DIN rail
- Module tolerance compensation in the cover
- Depth-adjustable DIN rail
- Neutral and protective conductor terminals
- Intuitive locking and unlocking of the door
- Body RAL 7035, door transparent
- Halogen-free

xComfort Compact Distribution Boxes

BF Flat distribution boxes, IP30

The BF series of Eaton's flat distribution boards makes a great visual impact thanks to its straight-forward and flat design. The installation distribution board is available in a surface-mounted as well as in a flush-mounted/hollow-wall version. There is a wide range of colours, device rows, module units and cable insertion options to choose from. The rack with the carrier rails can be completely removed and offers a convenient distance of 150 mm between the rows.

PE/N terminal rows as well as electric-shock protected installation sections with contact points at the metal front plates due to a special type of closure are included. The BF distribution board is made of solid, powder-coated steel sheet and is classified as protection class 1. As this flat distribution board meets the requirements of the 62208 as well as the IEC/EN 61439-1 and -3 standards, it is the right choice for a sub-distribution board up to 160A in a wide range of projects.

Benefit:

- Easy mounting of the components thanks to a convenient distance between the rows and the possibility to remove the carrier rails
- Increased safety thanks to electric-shock protected installation sections

Features:

- Degree of protection IP30
- Surface-mounted- or Flush-mounted Flat Distribution Boards
- 2- to 6-rows 24MU/row (Versions A, E, C)
- 4- to 6-rows 33MU/row (Versions A, C, P)
- Protection class I
- Sheet steel enclosure poly-esterpowder coated (white RAL 9016; Version C also in grey RAL 7035)
- Prepared for Eaton MCCB Incoms
- Sheet steel front plates with contacting to the enclosure
- Removable DIN-rail frame
- Generous wiring space
- 150 mm DIN-rail distance (ideal for switchgear busbar system)
- Complete enclosure (including N/PE-terminals)
- Depth: 127 mm
- Universal mounting plate

EWK field distribution boards, IP31

The next generation of the well-proven EWK surface-mounted field distribution board featuring a depth of 225 mm is outstanding thanks to its improved installation sections. Large-area shock-protection covers made of plastic which can be closed without the need for any tools, torsion-resistant carrier rails of 35x7.5 mm and the new combined plug-type terminals complete the list of its features. Traditional virtues such as the 2K membrane flanges at the top and bottom, 110° door opening angle and 3-point locking mechanism for enclosures with dopble-wing doors. Thanks to its classification as protection class 2 the EWK surface-mounted field distribution board is above all used in public buildings.
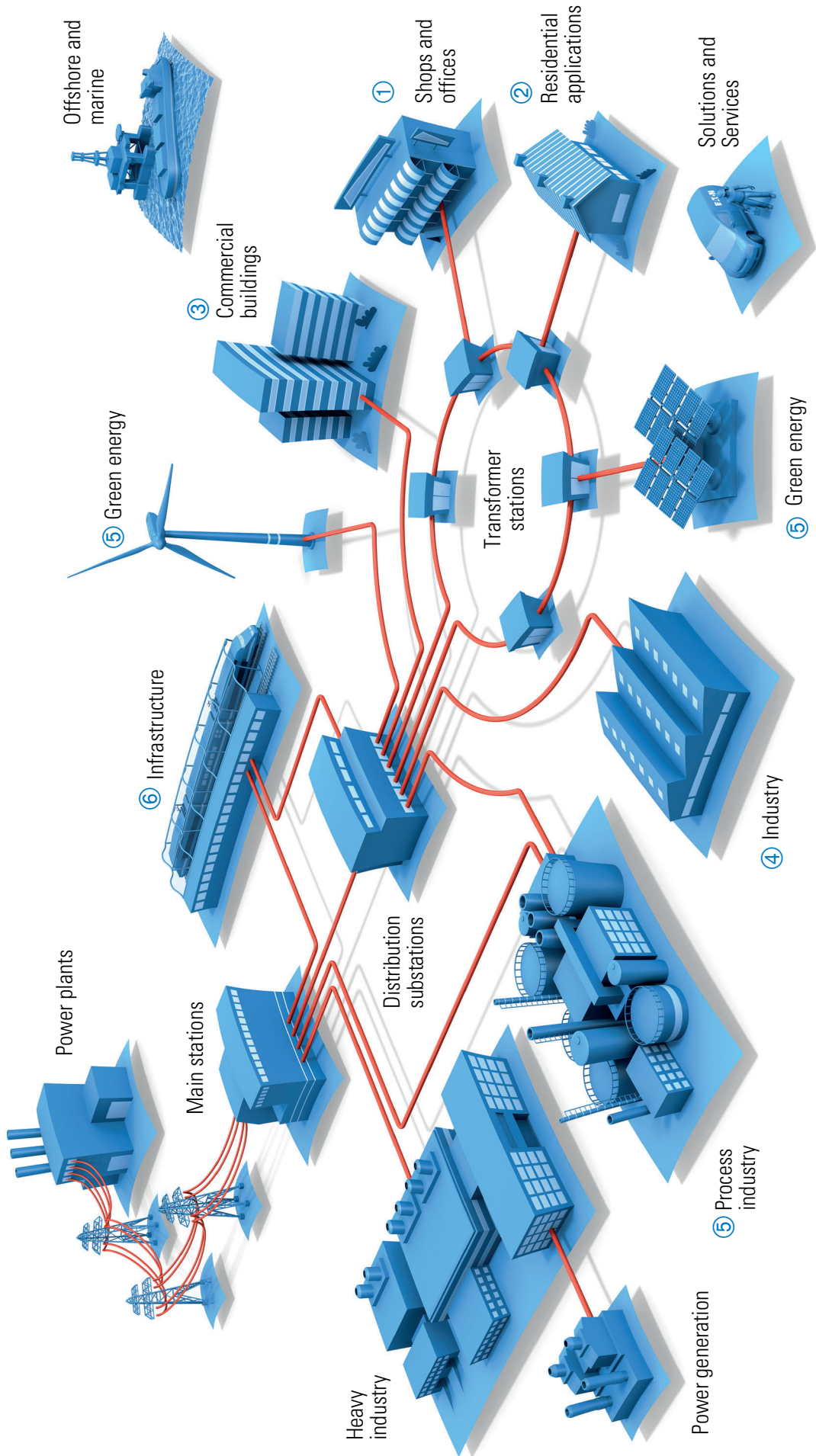
Benefit:

- Improved safety thanks to the large-area electric-shock protection cover
- Compactness thanks to torsion-resistant carrier rails
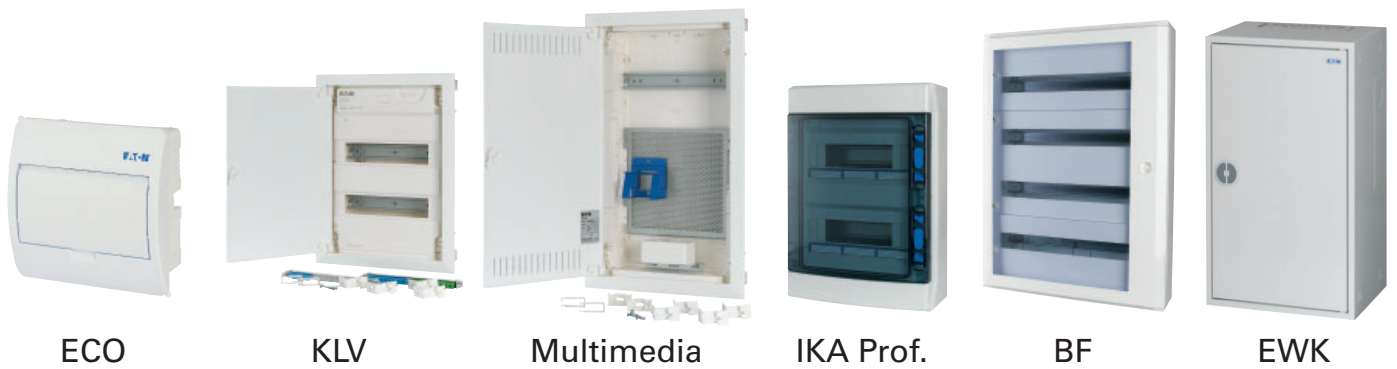- Easy to mount thanks to the large wiring area behind the DIN rail

Features:

- Degree of protection IP31, IK08
- Protection class II, fully insulated
- 225 mm enclosure depth
- Complete with door and installation field for add-on devices
- Combined plug-type terminals for neutral and protective conductor
- Device cover with quick-acting closure
- 36 to 288 module units, 3 to 6 rows
- 14 different enclosure sizes
- Design with either one or two doors
- Larger enclosures with 3-point rod lock
- Stable and torsion-resistant DIN rail
- Possibility for direct fixing on the wall
- Quick and easy inversion of the door hinges
- 2K membrane flanges
- Body RAL 9016, door of non-transparent sheet steel
- Different incomer options are available as retrofit kit

EATON CORPORATION BR014015EN

xComfort Compact Distribution Boxes

Offshore and marine

① Shops and offices

② Residential applications

Solutions and Services

③ Commercial buildings

⑤ Green energy

Transformer stations

⑤ Green energy

⑥ Infrastructure

Power plants

Main stations

Distribution substations

④ Industry

Heavy industry

⑤ Process industry

Power generation

Shops and offices ①

| ECO | KLV | Multimedia | IKA Prof. | BF | EWK |

Residential applications ②

| Micro | Mini | Eco | KLV | Multimedia | IKA Prof. | BF |

Commercial buildings, Hotels and Infrastructure ③+⑥

| ECO | KLV | IKA Prof. | BF | EWK |

Industry & Processindustry, green energy ④+⑤

IKA Industrial made of polycarbonate

Eaton Online Catalog – find product details quickly and efficiently!

You can find comprehensive up-to-date product information at http://ecat.moeller.net/catalog

Lookup

You can search by keywords, product names, article numbers, technical data: The search understands everything and takes you straight to the product you're looking for.

Graphical navigation

Graphical representation of the fields of application and product groups.

Selection aids

Tailored to the typical expert's approach, this search aid helps you quickly find the product you need.

Data sheets

For every article the catalog can generate a technical data sheet, which you can convert to a PDF file for printing or saving with a single click.

Parts lists

From your search results you can create a parts list that you can then send to your Eaton sales partner as a query.

You can find comprehensive up-to-date information about Eaton's Compact Distribution Boxes and Protective Devices in our Online Catalog.
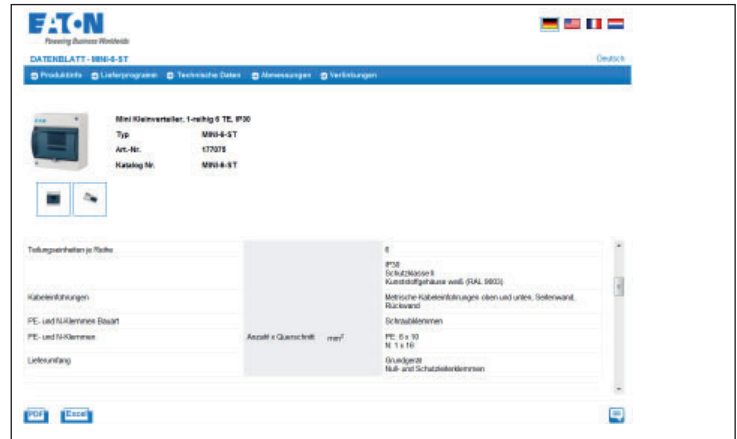
HTML data sheet; can be saved as PDF file.

Parts list, e.g. for queries to Eaton Sales.

Protective Devices

Protective Devices

Residual Current Devices (RCDs)	Residual Current Devices Digital (RCDs)	Fire Protection Device	Leakage Current Monitor	Combined RCD/ MCB Devices	Miniature Circuit Breakers (MCBs)	Manual Motor Starter and Power Limiter	Power Circuit-Breaker

Accessories for Protective Devices

Auxiliary Switch	RCD-Tripping Module	Shunt Trip Release	Undervoltage Release	Automatic Switching Device	Surge Protection	Measuring Instruments	Other Accessories

Controlling & Switching

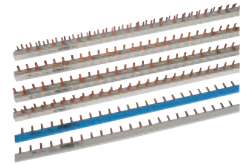|					
Switches	Installation Contactors	Relays	Signalling Devices	Transformers	Control-Relay Easy

Busbar System

Plug-in busbar and Busbar block

Benefit:

- The entire distribution board solution is technically inter-coordinated
- The ideal solution for any application, both in the private and industrial sector
- Expansions and adjustments at a later point in time are always possible
- Perfect image at the end-customer's thanks to a single-source solution

Eaton's mission is to improve the quality of life and the environment through the use of power management technologies and services. We provide sustainable solutions that help our customers effectively manage electrical, hydraulic, and mechanical power – more safely, more efficiently, and more reliably. Eaton's 2019 revenues were $21.4 billion, and we sell products to customers in more than 175 countries. We have approximately 95,000 employees.

For more information, visit **Eaton.com.**

To contact us please visit **https://www.eaton.com/us/en-us/ support/international-support-contacts.html**
For technical questions please contact your local Eaton team.

Changes to the products, to the information contained in this document, and to prices are reserved; as are errors and omissions. Only order confirmations and technical documentation by Eaton is binding. Photos and pictures also do not warrant a specific layout or functionality. Their use in whatever form is subject to prior approval by Eaton. The same applies to trademarks (especially Eaton, Moeller, and Cutler-Hammer). The Terms and Conditions of Eaton apply, as referenced on Eaton Internet pages and Eaton order confirmations.

Eaton is a registered trademark.

All other trademarks are property of their respective owners.

Follow us on social media to get the latest product and support information.

EAT•N
Powering Business Worldwide