Eaton – Safe power distribution able to meet the most stringent requirements.

www.eaton.eu

xEnergy Safety

The all-insulated distribution board.

Product catalogue Ci 2019

Powering Business Worldwide

Ci insulated enclosures

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Energizing a world that demands more.

We deliver:

- **Electrical solutions** that use less energy, improve power reliability and make the places we live and work safer and more comfortable
- **Hydraulic and electrical solutions** that enable machines to deliver more productivity without wasting power
- **Aerospace solutions** that make aircraft lighter, safer and less costly to operate, and help airports operate more efficiently
- **Vehicle drivetrain and powertrain solutions** that deliver more power to cars, trucks and buses, while reducing fuel consumption and emissions

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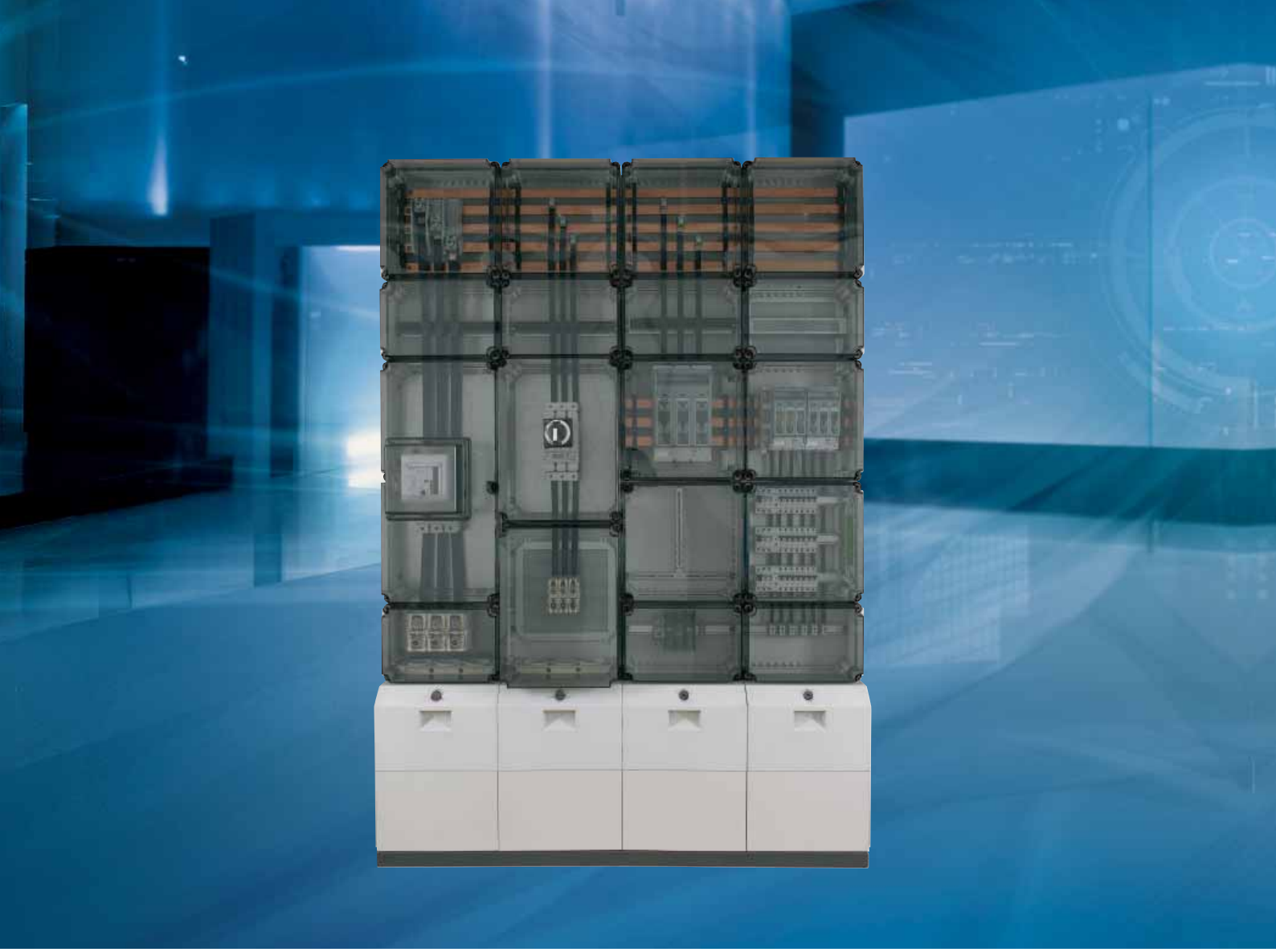


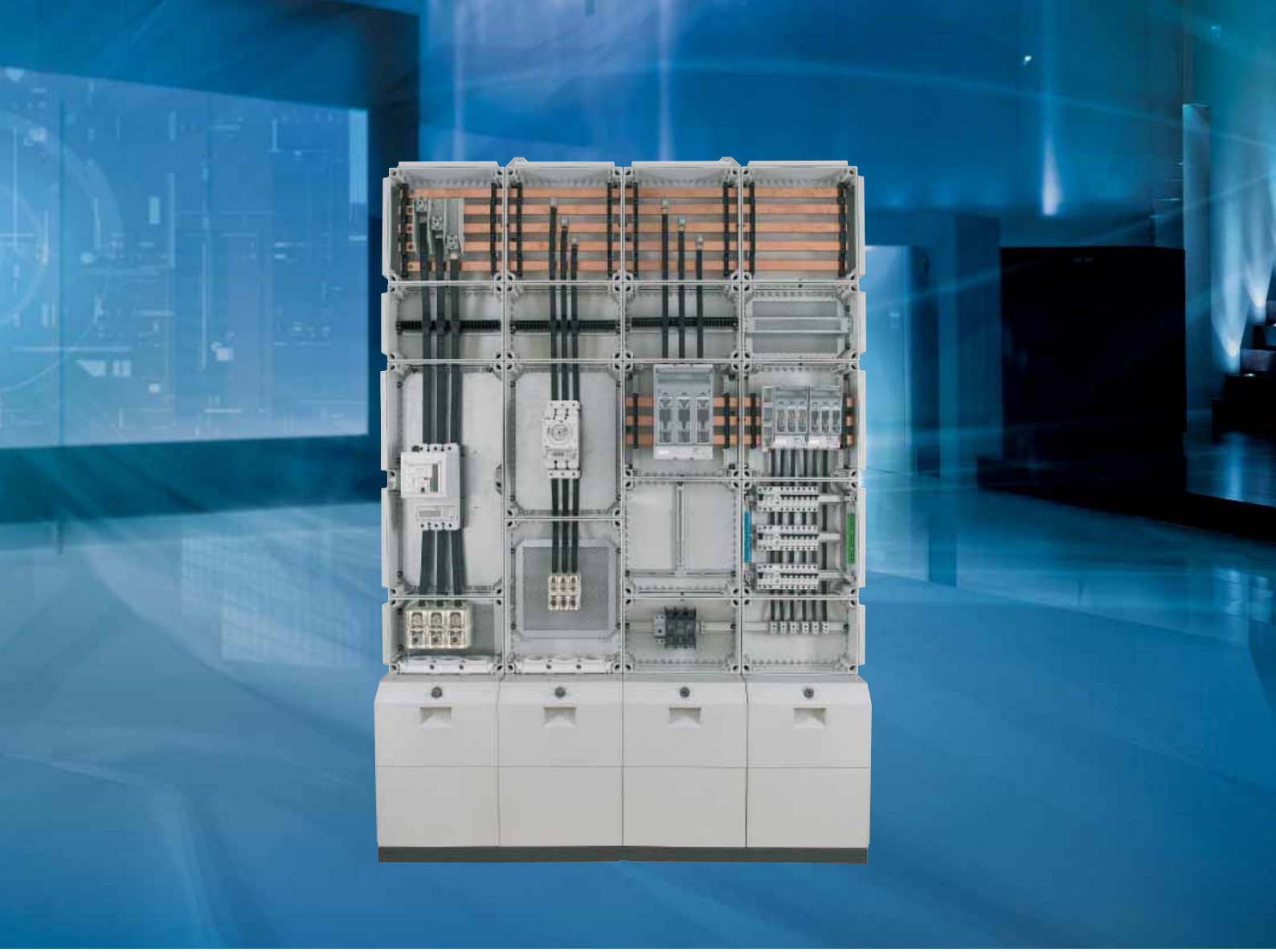
The all-insulated Ci distribution enclosure.

Requirements regarding electrical power distribution are constantly increasing. Eaton's products are not only the answer to these requirements, they also offer top reliability and flexibility for the customer.

A consistent system for up to 1600 A
Eaton's all-insulated Ci power distribution enclosures have been designed to meet the most stringent requirements and offer a consistent system for up to 1600 A. These all-insulated distribution enclosures provide an IP65 degree of protection and are insensitive to almost any environmental impact such as dust, moisture and water.

Timeless optimized protection
This type of enclosures made of high-quality polycarbonate offers additional protection against mechanical impacts and caustic substances. Thanks to their total insulation, Ci distribution enclosures provide for a timeless and optimized protection.

Cover equipped with 4 spring-loaded fittings
Thanks to a cover equipped with 4 spring-loaded fittings, the Ci system provides special protection against extreme switching-arc. Where necessary, it ensures pressure-relief by allowing the pressure to escape by lifting the cover a few millimetres and closing it again immediately.



An easy system
All three types of enclosures are based on the same system components: This reduces the storage place required for the system and makes their handling significantly easier.

Safety comes first
Total insulation is the safety measure that outperforms various other safety precautions by far because there is no touch voltage possible. Carrying voltage over to other parts of the system is therefore impossible.

High system availability
Reliable system availability is increased because short-circuits between live parts and protective conductors or mounting plates due to the slipping of a tool, for example, can be excluded.

Economic efficiency for all parties involved

For the system planner:
Any of the common applications can be covered through as few as five enclosure sizes and four different depth levels.

For the panel builder:
Sophisticated connecting technology allows grouping and arranging the enclosures in every direction without using any special tools.
Four installation technologies are available to complete the system:
Mounting plates, module rails, carrier rails and busbars.

For the system integrator:
Supply lines can be inserted from any side, and cables can be interconnected in the socket.

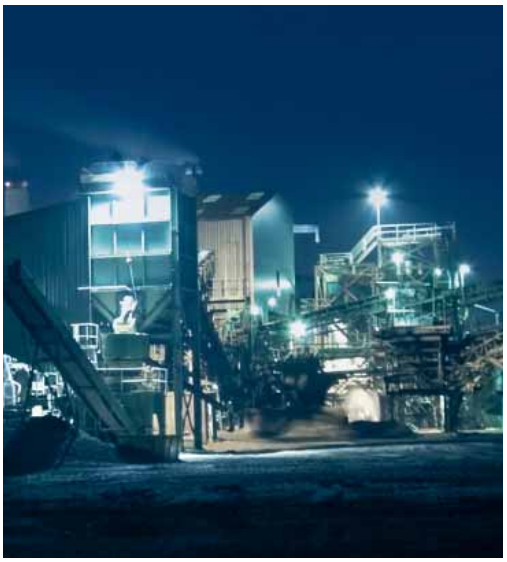
A tough system

For all seasons

Eaton has a global reputation as a specialist in high-quality switchgear systems and is technology leader in the field of power distribution. As a successful supplier of complete systems, Eaton not only offers distribution systems for universal use, but also solutions developed to meet the requirements in harshest conditions and stands out through tested safety, reliability and optimal protection against extreme impacts. Eaton's xEnergy Safety Ci insulated enclosures have become the globally leading and established standard in particularly challenging environments.

Advantages

- System for up to 1600 A
- Switchgear and enclosures are designed to provide perfect compatibility
- Lifting of the cover in case of a switching-arc without losing the protective function



In extremely polluted and harsh environments such as:
- Steel works
- Foundries
- Mining
- Woodworking industry
- Metalworking industry
- etc.

In places requiring a system insensitive to moisture and caustic substances:
- Food industry
- Automated washing lines
- Refineries
- Sewage plants
- Water works
- Chemical industry
- etc.

In places where safety requirements tolerate no compromise:
- Tradeshows and exhibition halls
- Hospitals
- Railway stations
- Airports
- etc.

Convincing product features:

- High IP65 degree of protection
- Total insulation
- Polycarbonate
- Distribution system based on a 25 mm grid
- Modular system
- Cover resting on 4 spring-loaded fittings
- Stable carrier-frame profiles
- Captive, foamed sealings
- Wedge-type connectors made of insulating material to interconnect the enclosures
- Transparent covers
- Consistent system for up to 1600 A

Advantages to get excited about:

- A distribution system for universal use
- Highest standard in terms of safety for people and operation
- Many combination options based on a reduced number of modules
- Easy to expand when necessary
- Degree of protection is guaranteed regardless of an operator's level of care and attention
- Entirely encapsulating insulation-material for high protection against corrosion
- No special tools required
- No carrying over of voltage to adjacent enclosures
- Easier maintenance and system control
- Complete solution for low-voltage distribution from a single supplier

Tried and tested in the most extreme environments.

Enclosure made of high-quality polycarbonate – IP65 degree of protection

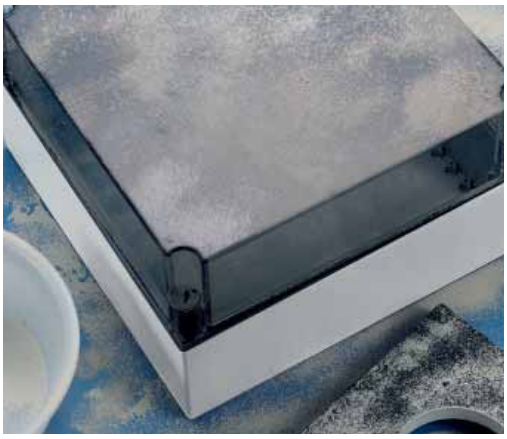
High-quality polycarbonate makes CI insulated enclosures especially shock-proof and resistant to acrid smoke.

Total insulation offers a maximum of safety as it is a protective feature that is always “active” and does not wear out.

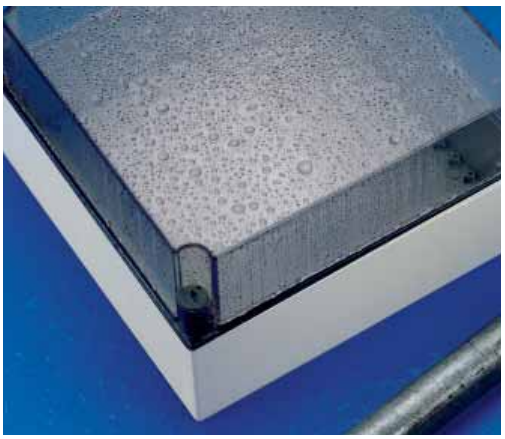
Top operational safety
Thanks to transparent smoky covers a short glance will do to check the correct operating status of the incorporated switchgear. Of course there are non-transparent covers available as well, or even covers with an integrated cylinder lock.

Protection against 6 detrimental factors or hazards

- Dust
- Moisture
- Water
- Caustic substances
- Mechanical impacts
- Extreme short-circuits



Suitable for environments particularly exposed to dust and pollution



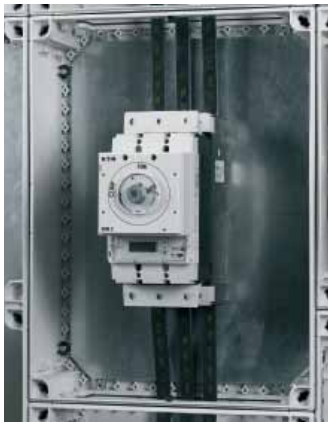
High level of protection against moisture and water jets

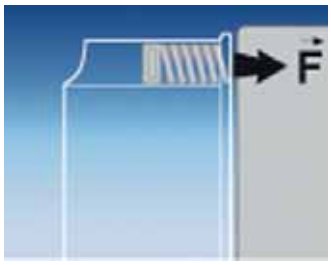
Particularly shock-proof and resistant to mechanical impacts

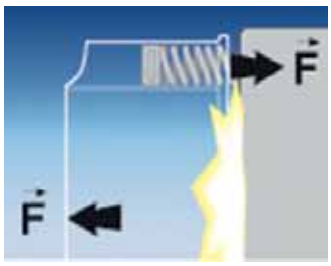
Resistant to acrid smoke and caustic substances

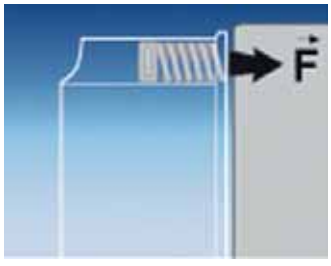
Maximum safety thanks to pressure relief

The cover resting on 4 spring-loaded fittings ensures pressure relief in case of a switching-arc.





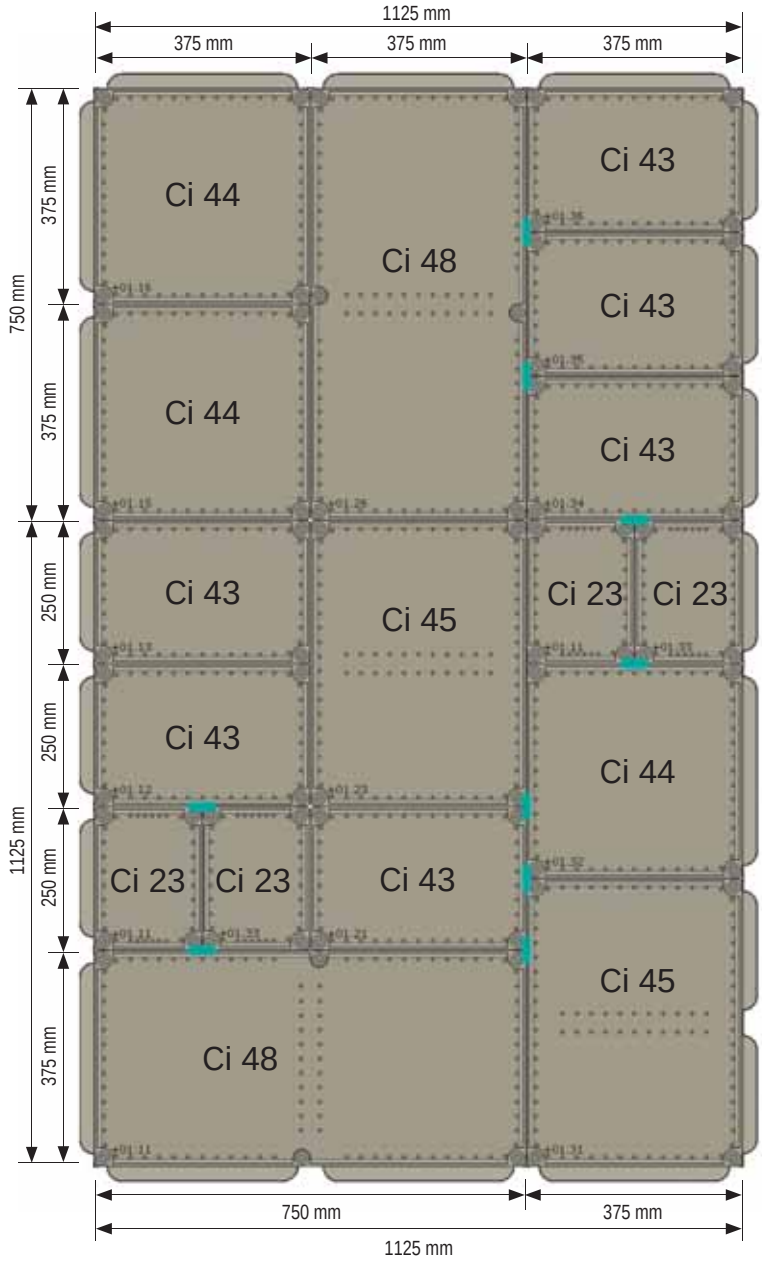




Modular distribution system

Thanks to the uncomplicated possibilities of combining 5 different enclosure sizes, the modular design of the Ci insulated enclosure series offers a maximum of flexibility to optimally use the space available. A unique component is the flange spreader. It serves as an adapter and allows adding smaller enclosures to larger ones without any problem.

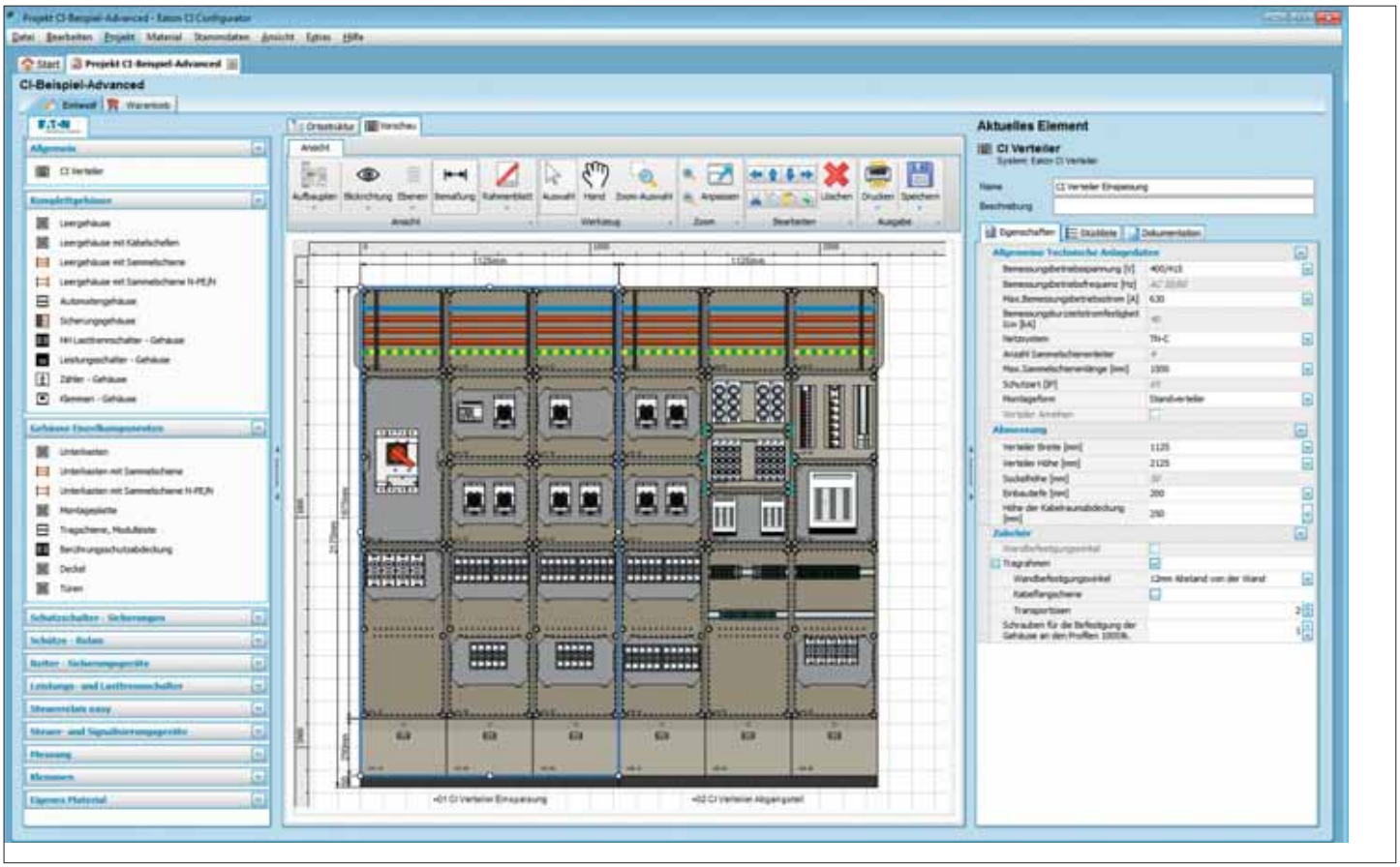
The Eaton xEnergy Safety Configurator makes it incredibly easy to configure a system because it automatically adds the correct number of flange spreaders to your project.



Advantages

- Symmetrical and asymmetrical flanging of enclosures is possible either one next to the other or one below the other
- This makes sure the space available in each individual project can be optimally used

Easy configuration.



With the xEnergy Safety Configurator especially designed for the Ci distribution system you can successfully plan your system with just a few mouse clicks – it's quick an easy, correct and it won't forget any details. The Configurator is based on the know-how of experts and makes the configuration of your system as user-friendly as possible.

xEnergy Safety Configurator

The Configurator is free for Eaton customers and is useful for a quick selection and arrangement of the different distribution system components.

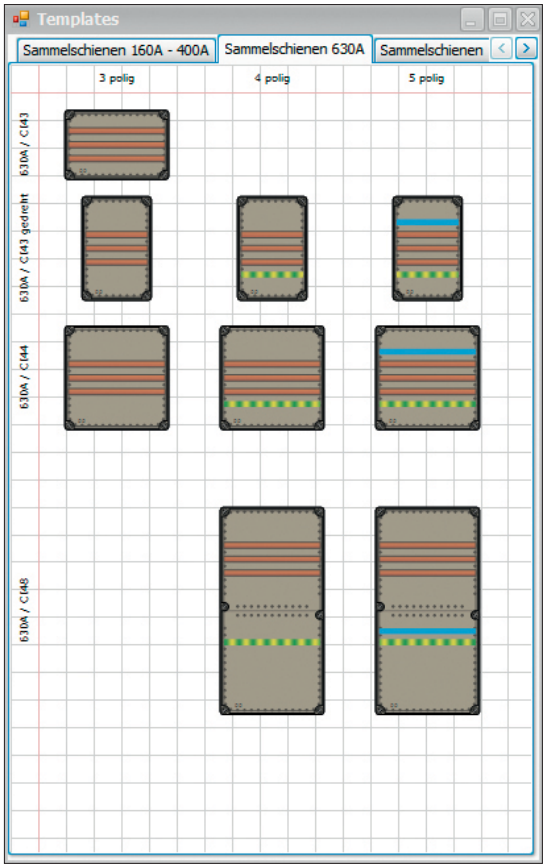
Easy to use:
On the right side you can select the required distributor objects, the respective templates will offer you the correct distributor articles which you can then correctly combine with the preselected distributor frame in the graphic window at the centre thanks to a Drag & Drop function.

This programme is based on our system know-how and continuously checks the plausibility of your planning steps as you proceed.

- Professional front view of all distribution boards and equipment installed
- Identification of operating supplies and locations
- Explorer with easy navigation and modification of equipment
- Clear overview of costs: The required components will be displayed in the basket.
- The Configurator will show you the weights, metal surcharges, prices, minimum quantities to be ordered.
- The Configurator enables you to provide informative details: Export of parts lists including the system-related accessories, set-up pictures in different views for offers to your customers, CAE systems or workshop assembly. The Single Line output supports simple documentation tasks.

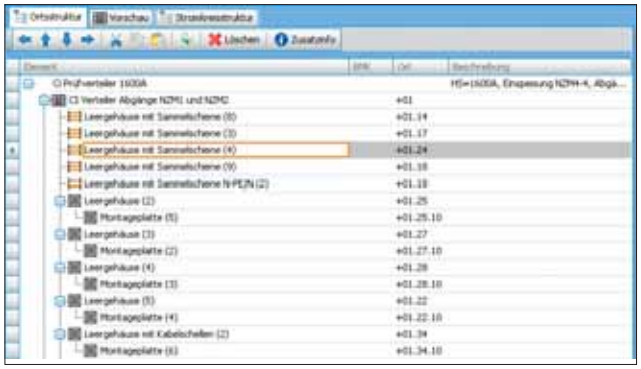
Everything is displayed on the monitor

- Interfaces to Microsoft™ Excel,
- Project management
- DXF vector graphics for importing data into CAE systems
- Version check and update via Internet
- Import of specific prices and discounts is possible
- Export of parts lists and set-up pictures
- Cross-project copying functions
- Calculation of metal surcharges



Drag & Drop the right distributor articles

Identification of equipment



Easy navigation and modification of equipment thanks to the Explorer

Clear overview of costs: The required components, weights, metal surcharges, prices and minimum quantities to be ordered etc. are displayed in the basket.

Switchgear configuration included (free of charge)

The xEnergy Safety Configurator is free for Eaton customers and includes the extra function of switchgear configuration for equipment to be installed in the distribution enclosures. For this purpose you can first select the required Eaton switchgear and protective equipment, configure them according to your requirements and then drag & drop them conveniently at the required position in the distribution cabinet.

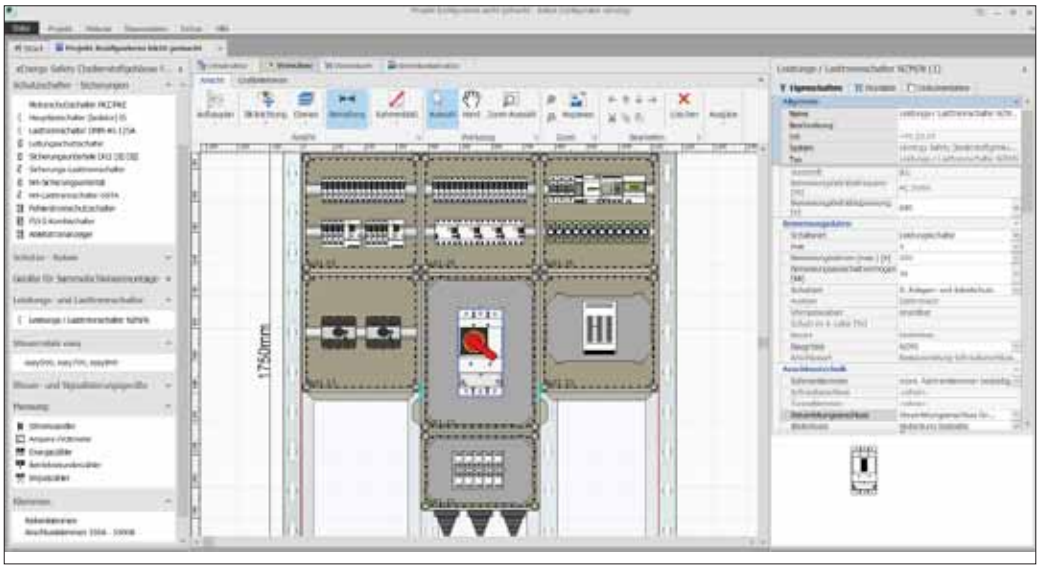
Configurable devices are, among others, digital RCDs, MCBs, load disconnectors, circuit breakers, fuse devices, motor protective devices, contactors, relays, transformers, measuring devices and connection terminals.

Of course all these devices will automatically be transferred to your shopping basket and you will be able to see them in detail in the front-view picture of the system.

It can be downloaded from www.eaton.eu Customer Support

Made for use in practice

- Object-focused dimensioning
- Automatic function for dimensioning
- Automatic selection of system components and their arrangement
- Variable interior views: Frame, enclosure, components, casings and covers
- Basket with different sorting views and selectable data fields, e.g. weight, can be exported



Perfection in every detail.

1 Total insulation

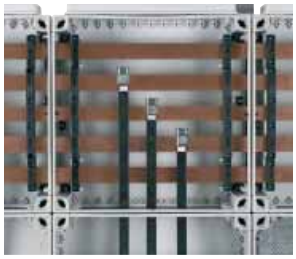
The benchmark for ultimate safety: Total insulation is not subject to wear and tear and is therefore absolutely maintenance-free. Also, insulating is safer than grounding.

2. Closure bolt of the cover

The closure bolt of the cover features an “Open/Closed” display and can generally be lead-sealed. An incorporated spring provides for venting the cover following short-circuit disconnections of circuit-breakers: The cover rises, allows the pressure to escape and closes again. So, this ensures maximum safety for both operators and systems.

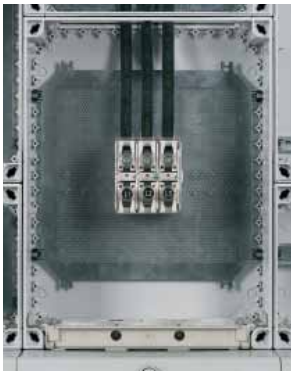
3. New enclosure sizes

More flexibility for interior fittings regarding deep combinations with circuit breakers, thanks to new enclosure size Ci45 with max. installation depth of 279 mm or with new polycarbonate hood NZM-RTR, this allows an installation depth of 360 mm, e.g. for Circuit-breaker NZM4 with remote operator.



4. Busbar system SASY 60

The full integration of the 60 mm system allows the use of standardized identical parts from the assortment of Eaton. The system can be built of 3 or 4 or 5 poles up to 630 A.

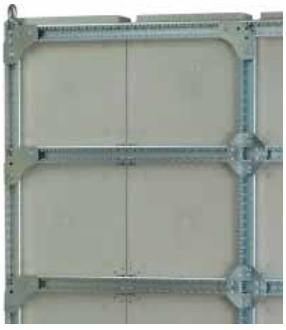


5. Micro-perforated mounting plates

For quick device mounting: Mounting plates made of galvanized sheet steel with special microperforation enable a much faster assembly of small devices, since time-consuming processes such as measuring, marking, drilling and tapping are completely eliminated.

6. Plug-in terminal technology KSK

Faster contacting of cables up to 4 mm² thanks to modern plug-in technology.



7. Stable profiles of the carrier frame

CC-profiles in a stable and corrosion-resistant finish always ensure a safe fit of the system, whether it is a wall-mounted distribution enclosure, a floor-based or a floor-standing enclosure with a cable area casing and a base plinth.

8. Cross-strut kits

Barrier-free access makes it easy to arrange rigid copper bars or cables of large diameters in the distribution enclosure.

The right enclosure for your specific application.

Ci insulated distribution enclosures

When time is what matters most.
The bottom of the enclosures is open on two sides to allow for vertical cable insertion. This helps to save mounting time. For horizontal cable insertion the vertical side panels can be knocked out. Cable insertion into the distribution enclosure is done through flanges with metrical pre-punched openings or through cable fittings varying in number and size.

Stand-alone enclosures Ci, E

When flexibility is what matters most.
Metrical pre-punched openings to be knocked out of the enclosure bottom provide for an integrated cable insertion option from all sides. In addition, there are extensive areas allowing to be knocked out on all side panels. This is how a stand-alone enclosure can be transformed into a distribution enclosure, which helps to reduce stock requirements.

Stand-alone enclosures Ci, X

When smart appearance is what matters most.
The smooth and even side areas of the enclosure bottom prevent the development of filthy corners. Examples of application for this type of enclosure are the operators‘ level in the (serial) machine building industry, small-size control systems and photovoltaics.

An example of application.

NAS160-Ci-1-K95,
Art. no. 168111

Ci enclosures as a ready-to-connect network and system protection

When safety is what matters most.
To guarantee the stability of public networks, the VDE-AR-N 4105 standard includes a set of rules for decentralized power supply out of renewable energy sources - which is no problem for Eaton‘s ready-to-connect Ci enclosures.

From a single source: Ci insulated distribution boards, switchgear and know-how
The ideal solution for a wide variety of applications

Modular DIN-Protective Devices

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

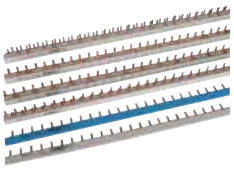
Accessories for Modular DIN-Protective Devices

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

Modular Controlling & Switching

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

Busbar Systems



Plug-in Busbar and Busbar Block

Motor-Protection and Starters

Motor-Protective Circuit Breaker

Motor-Starter Combinations

Soft Starters

Variable Speed Starters

Frequenzy Inverters

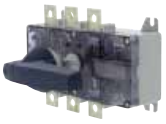
Monitoring Relay

Cable and System Protection

Circuit Breaker PKZM

Moulded Case Circuit Breaker NZM

Switch-Disconnectors N, PN



Switch-Disconnectors Dumeco, QSA

D-Fuses Switch-Disconnectors

NH Fuse Switch-Disconnectors

Terminals

1-phase Terminals

Terminal Strips

3-/4-phase Terminals

Terminal Blocks

K-Terminals

Busbar Terminals

Benefit:

- The entire distribution board solution is technically inter-coordinated.
- The ideal solution for any application.
- 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.

Ci insulated enclosures – System overview

total isoliert

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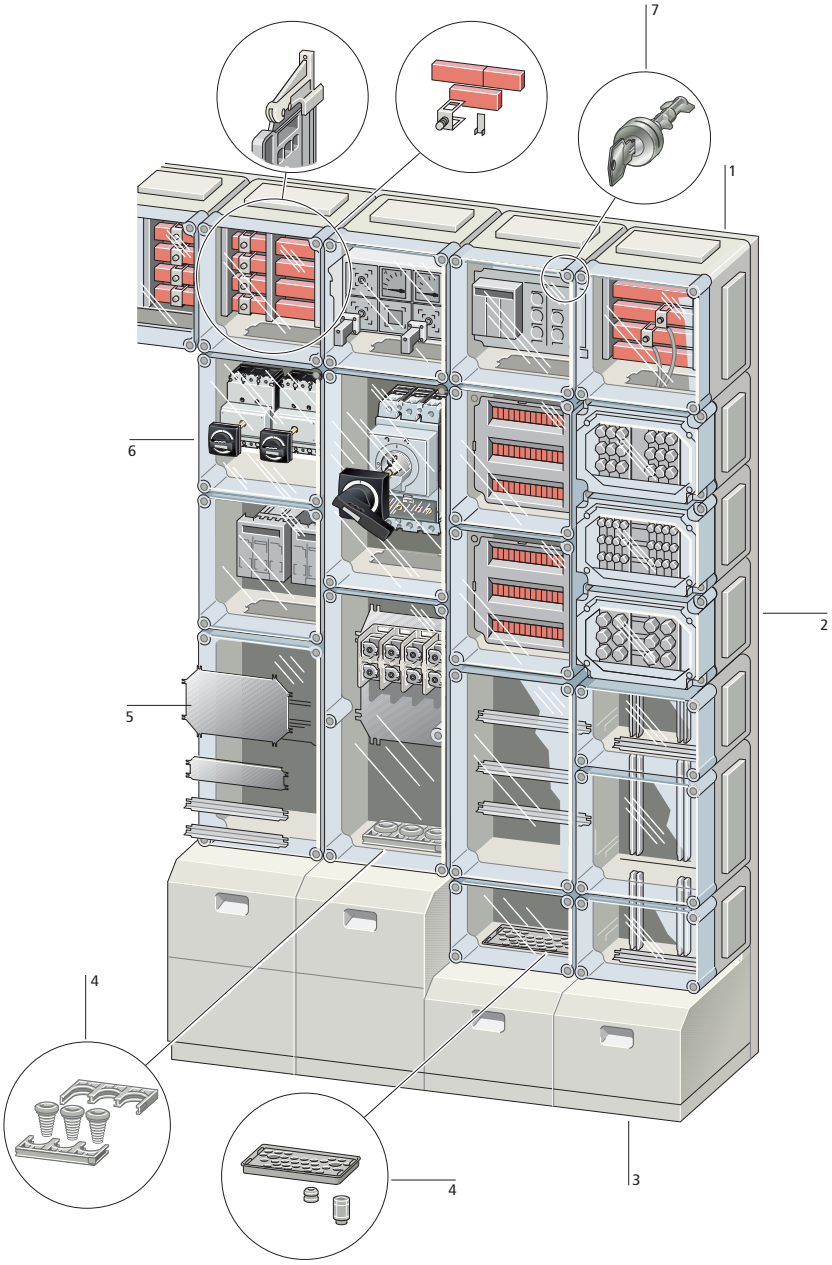


Basic enclosures
Five sizes that can be combined
Width ≥ 187.5 ≤ 375 mm
Height ≥250 ≤ 750 mm
Depth ≥150 ≤ 275 mm
Metric cable-entry knockouts in the sides
Sealable cover fastener with I/0 position indicator and built-in springs for pressure relief in the event of a short-circuit
Transparent
cover with/without
non-transparent door, RAL 7035
→ Page 1.33

Busbar systems 1
3-/4-/5-conductor systems
Rated operational current up to 1600 A
Copper busbars
Busbar terminals
→ Page 1.65

Mounting elements 2
Support frames for wall-mounted and floor-mounted distribution boards
Wall-fixing brackets
Fixing straps
→ Page 1.45

Cable compartment 3
Plinths
Cable compartment cladding
→ Page 1.90, → Page 1.91

Cable entries 4
Gland plates for large cross-sections
Flanges
Metric cable glands/grommets
→ Page 1.44, → Page 1.38, → Page 1.93

Mounting systems for basic enclosures 5
Mounting plates made from sheet steel and insulating material
Micro-perforated mounting plates for standard mounting
Mounting rails and modular mounting rails to IEC/EN 60715
Mounting depths of 125 mm to 250 mm
Metering equipment
→ Page 1.40

Pre-assembled enclosures/distribution board assembly 6
MCB enclosures
Fuse enclosures
Enclosures with NH fuse switch-disconnectors
Circuit breaker enclosures
Meter enclosures
→ Page 1.50, → Page 1.54

Cover fasteners 7
Latching or with cylinder lock
→ Page 1.36

Features

- total isoliert
- Basic enclosures according to IEC/EN 62208
- Switchgear assemblies to IEC/EN 61439-2
- IP65 degree of protection
- Integrated pressure-relief mechanism for short-circuits
- Protection class 2
- Distribution board system with increments of 25 mm
- Modular system
- Captive, sponge-rubber gaskets
- Insulating wedge-lock fastener for connecting the enclosures to each other
- Enclosures made from self-extinguishing, halogen-free polycarbonate

Standards

- IEC/EN 61439-2
- IEC/EN 62208
- UL 508

Enclosure types

The enclosure cover is identical for all three types.

CI...E-... individual enclosures

- Metric cable entry knockouts in all sides
- All enclosure sides can also be knocked out
- Also suitable for use in xEnergy Safety distribution systems

3200PIC-46

CI...X-... individual enclosures

- All four enclosure sides are smooth, without knockouts

3200PIC-52

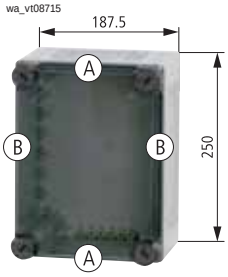
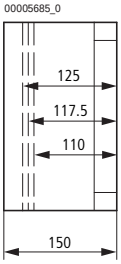
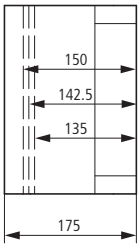
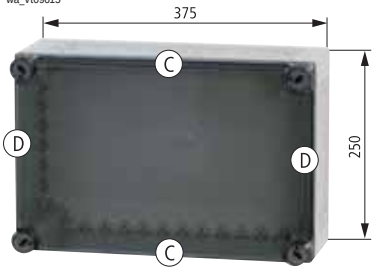
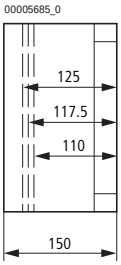
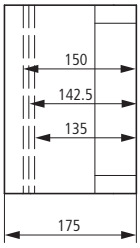
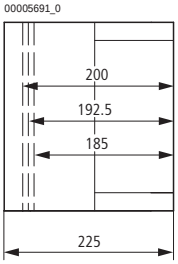
CI...-... panel enclosures

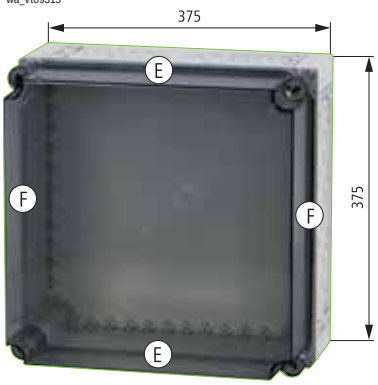
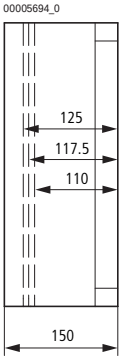
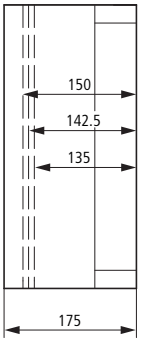
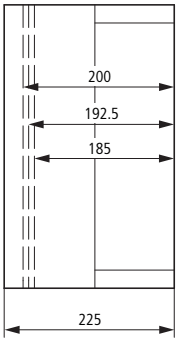
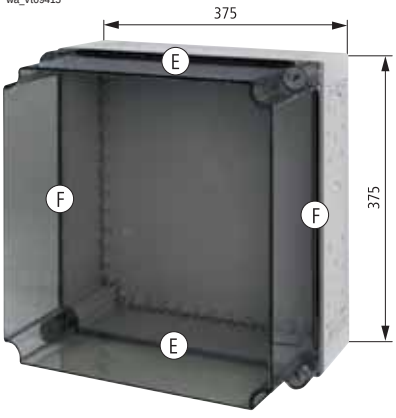
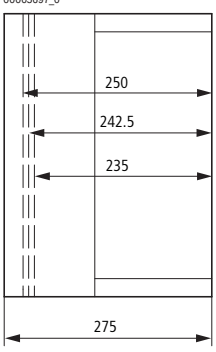
- Closed sides that can be fully knocked out
- The walls are open at the top and bottom
- Suitable for use in xEnergy Safety distribution systems

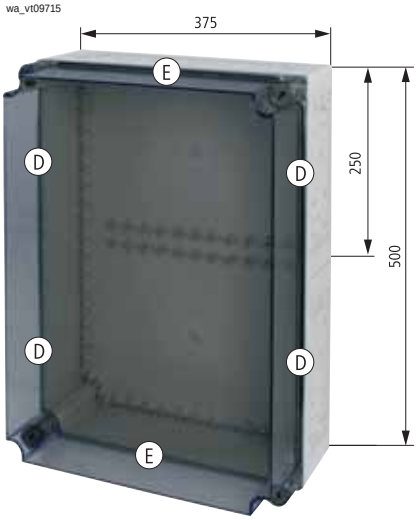
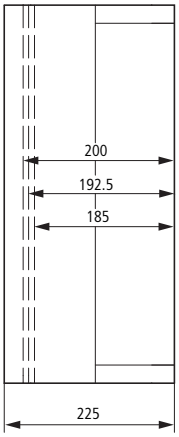
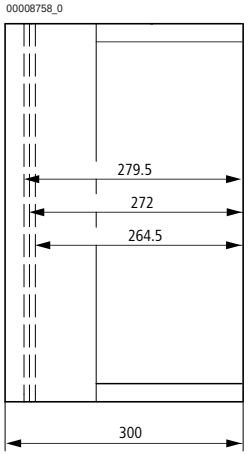
3200PIC-34

Basic enclosures, E-type individual enclosures

- With metric cable-entry knockouts in all side walls, see diagram A - F
- Sides can be fully knocked out
- Can be converted into a distribution panel enclosure
- IP65 degree of protection
- Integrated pressure-relief mechanism in the event of a short-circuit
- Transparent or non-transparent cover (RAL 7035, light gray)
- Fixing straps for wall mounting included
- Sealable cover fasteners

Dimensions mm	Enclosure depth (dimensions from top) 1. Mounting depth with mounting plate 2. Mounting depth with 7.5 mm high mounting rail 3. Mounting depth with 15 mm high mounting rail 4. Enclosure depth mm	Type name	Article no.	Units per package
wa_vt08715 	00005685_0 	Transparent cover	CI23E-125	019570	1
		Non-transparent cover	CI23E-125-RAL7035	194609	1
	00027042_0 	Transparent cover	CI23E-150	021943	1
		Non-transparent cover	CI23E-150-RAL7035	194610	1
wa_vt09015 	00005685_0 	Transparent cover	CI43E-125	093133	1
		Non-transparent cover	CI43E-125-RAL7035	194611	1
	00027042_0 	Transparent cover	CI43E-150	095506	1
		Non-transparent cover	CI43E-150-RAL7035	194612	1
	00005691_0 	Transparent cover	CI43E-200	097879	1
		Non-transparent cover	CI43E-200-RAL7035	194613	1

Dimensions mm	Enclosure depth (dimensions from top) 1. Mounting depth with mounting plate 2. Mounting depth with 7.5 mm high mounting rail 3. Mounting depth with 15 mm high mounting rail 4. Enclosure depth mm		Type name	Article no.	Units per package
wa_vt09315 	00005694_0 	Transparent cover	CI44E-125	031436	1
		Non-transparent cover	CI44E-125-RAL7035	194614	1
	00075024_0 	Transparent cover	CI44E-150	033809	1
		Non-transparent cover	CI44E-150-RAL7035	194615	1
	00008754_0 	Transparent cover	CI44E-200	036182	1
		Transparent with transparent door	CI44E-200-T	090147	1
		Non-transparent cover	CI44E-200-RAL7035	194616	1
wa_vt09415 	00005697_0 	Transparent cover	CI44E-250	038555	1

Dimensions mm	Enclosure depth (dimensions from top) 1. Mounting depth with mounting plate 2. Mounting depth with 7.5 mm high mounting rail 3. Mounting depth with 15 mm high mounting rail 4. Enclosure depth mm	Type name	Article no.	Units per package
wa_vt09715 	00008757_0 	Transparent cover	CI45E-200	001891	1
		Non-transparent cover	CI45E-200-RAL7035	194617	1
	00008758_0 	Transparent cover	CI45E-250	194552	1
		Non-transparent cover	CI45E-250-RAL7035	194553	1

Notes

A B C D

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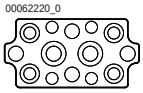

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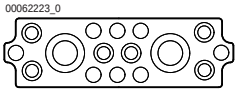

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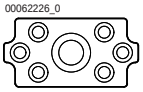
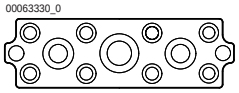


1 x M32/20 2 x M32/20 2 x M50/20 1 x M50/32
6 x M20 4 x M25/16 6 x M25/16 6 x M25/16
2 x M16 4 x M20 8 x M20
4 x M16

E F

00063330_0


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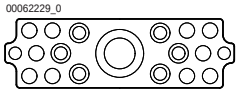
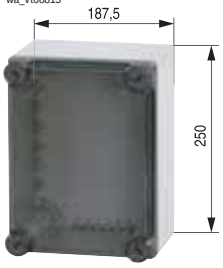
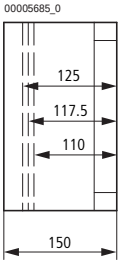
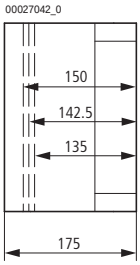
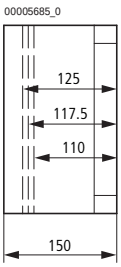
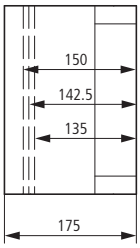
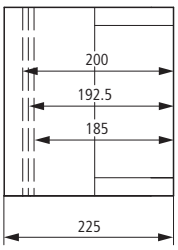
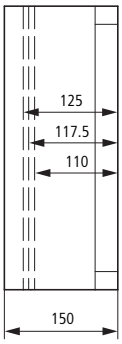
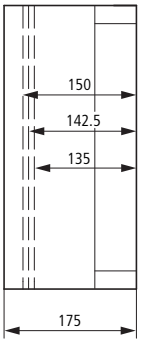
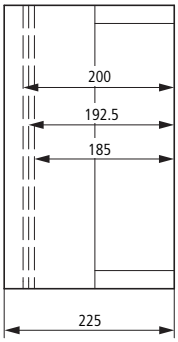
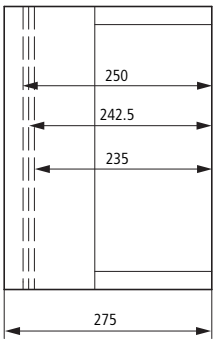


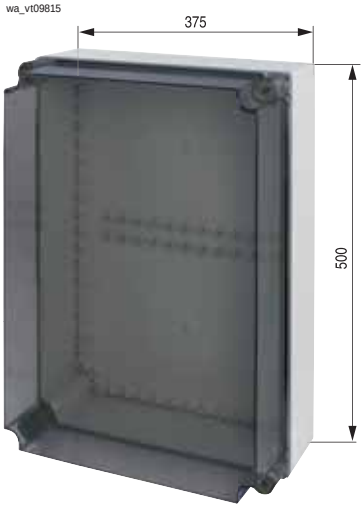
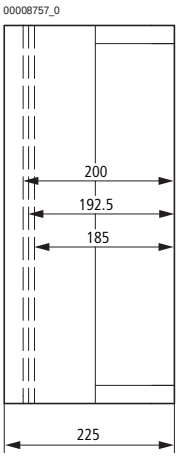
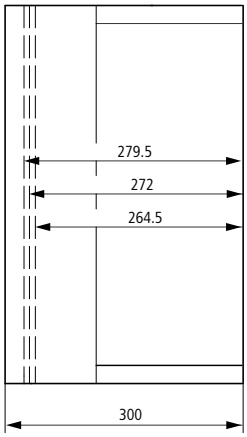
1 x M50/32 1 x M63/40
2 x M40/25 6 x M25/16
8 x M25/16 10 x M20
2 x M20 2 x M16

Basic enclosures, X-type individual enclosures

- Smooth sides without knockouts, 6.5 mm thick
- IP65 degree of protection
- Integrated pressure-relief mechanism in the event of a short-circuit
- Transparent cover
- Fixing straps for wall mounting included
- Sealable cover fasteners

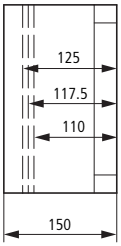
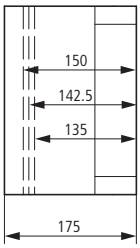
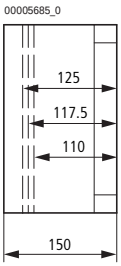
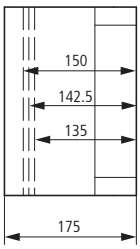
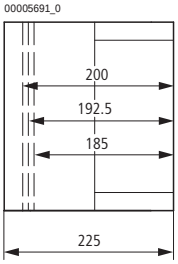
Dimensions mm	Enclosure depth (dimensions from top) 1. Mounting depth with mounting plate 2. Mounting depth with 7.5 mm high mounting rail 3. Mounting depth with 15 mm high mounting rail 4. Enclosure depth mm	Type name	Article no.	Units per package
wa_vt08815 	00005685_0 	CI23X-125	010408	1
	00027042_0 	CI23X-150	015154	1
wa_vt09115 	00005685_0 	CI43X-125	019900	1
	00005691_0 	CI43X-150	024646	1
	00005691_0 	CI43X-200	029392	1

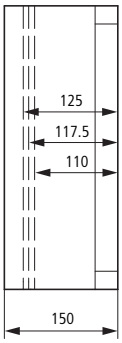
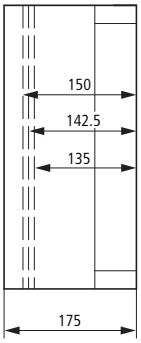
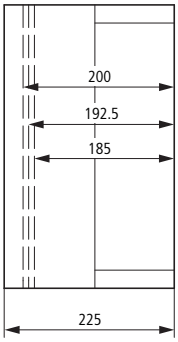
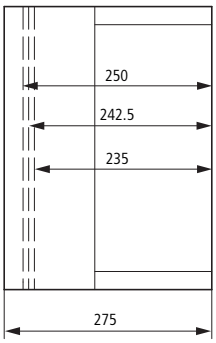
Dimensions mm	Enclosure depth (dimensions from top) 1. Mounting depth with mounting plate 2. Mounting depth with 7.5 mm high mounting rail 3. Mounting depth with 15 mm high mounting rail 4. Enclosure depth mm	Type name	Article no.	Units per package
wa_vt09515 	00005694_0 	CI44X-125	031765	1
	00075024_0 	CI44X-150	034138	1
	00008754_0 	CI44X-200	036511	1
	00005697_0 	CI44X-250	038884	1

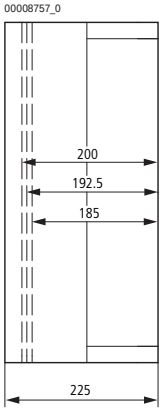
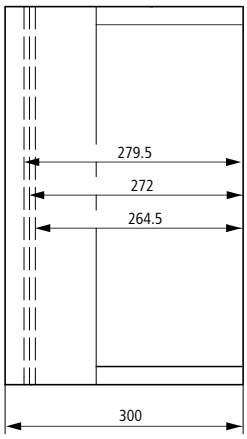
Dimensions mm	Enclosure depth (dimensions from top) 1. Mounting depth with mounting plate 2. Mounting depth with 7.5 mm high mounting rail 3. Mounting depth with 15 mm high mounting rail 4. Enclosure depth mm	Type name	Article no.	Units per package
wa_vt09815 	00008757_0 	CI45X-200	098469	1
	00008758_0 	CI45X-250	194555	1

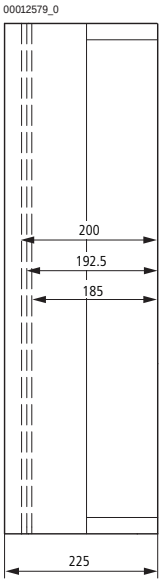
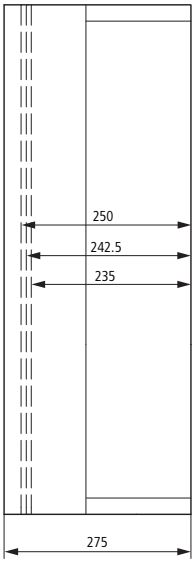
Basic enclosures, panel enclosures

- Sides closed, with full area knockout, open at top and bottom
- IP65 degree of protection
- Integrated pressure-relief mechanism in the event of a short-circuit
- Transparent cover, sealable cover fasteners

Dimensions mm	Enclosure depth (dimensions from top) 1. Mounting depth with mounting plate 2. Mounting depth with 7.5 mm high mounting rail 3. Mounting depth with 15 mm high mounting rail 4. Enclosure depth mm	Type name	Article no.	Units per package
wa_vt08615 	00005685_0 	CI23-125	098208	1
	00027042_0 	CI23-150	012781	1
wa_vt08915 	00005685_0 	CI43-125	017527	1
	00005691_0 	CI43-150	022273	1
	00005691_0 	CI43-200	027019	1

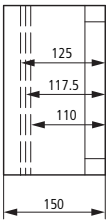
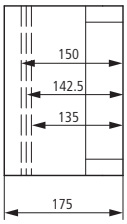
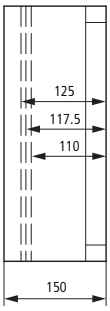
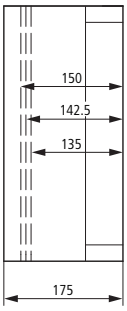
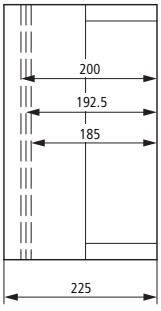
Dimensions mm	Enclosure depth (dimensions from top) 1. Mounting depth with mounting plate 2. Mounting depth with 7.5 mm high mounting rail 3. Mounting depth with 15 mm high mounting rail 4. Enclosure depth mm	Type name	Article no.	Units per package
wa_vt09215 	00005694_0 	CI44-125	012452	1
	00075024_0 	CI44-150	017198	1
	00008754_0 	CI44-200	021944	1
	00005697_0 	CI44-250	026690	1

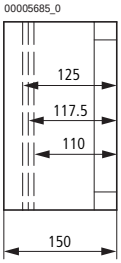
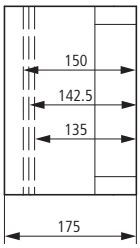
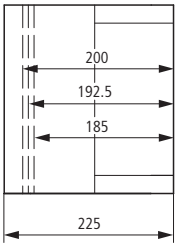
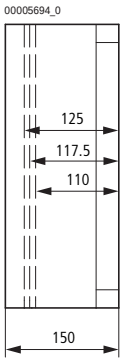
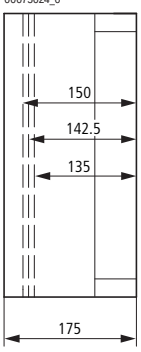
Dimensions mm	Enclosure depth (dimensions from top) 1. Mounting depth with mounting plate 2. Mounting depth with 7.5 mm high mounting rail 3. Mounting depth with 15 mm high mounting rail 4. Enclosure depth mm	Type name	Article no.	Units per package
wa_vt09615 	00008757_0 	CI45-200	001896	1
	00008758_0 	CI45-250	194554	1

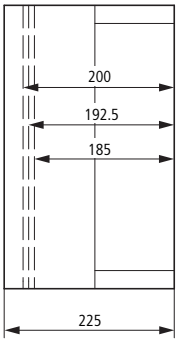
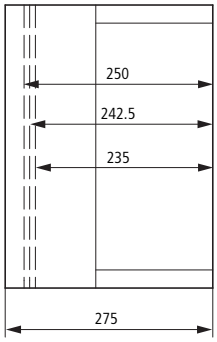
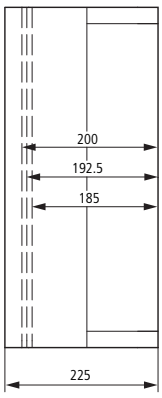
Dimensions mm	Enclosure depth (dimensions from top) 1. Mounting depth with mounting plate 2. Mounting depth with 7.5 mm high mounting rail 3. Mounting depth with 15 mm high mounting rail 4. Enclosure depth mm	Type name	Article no.	Units per package
wa_vt09915 	00012579_0 	CI48-200	078896	1
	00008760_0 	CI48-250	083642	1

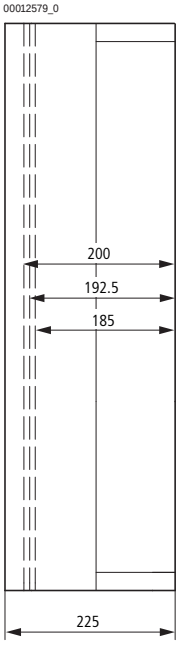
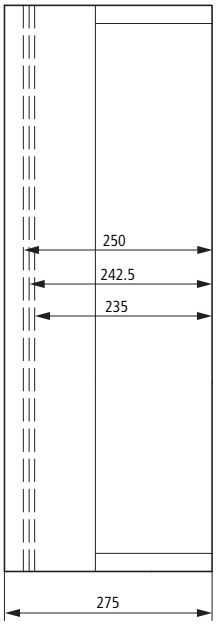
Basic enclosures, panel enclosures with gland plates fitted

- Sides closed, with full area knockout, open at the top
- IP65 degree of protection
- Integrated pressure-relief mechanism in the event of a short-circuit
- Gland plate can be split, cables can be inserted from the front
- The cable supports in the distribution board are mounted using a wedge-lock fastener
- Transparent cover, sealable cover fasteners

Dimensions mm	Enclosure depth (dimensions from top) 1. Mounting depth with mounting plate 2. Mounting depth with 7.5 mm high mounting rail 3. Mounting depth with 15 mm high mounting rail 4. Enclosure depth mm	Cable entry external diameter mm	Type name	Article no.	Units per package
wa_vt10015 	00005685_0 	2 x 14 - 54	KST32-125	069774	1
	00027042_0 	2 x 14 - 54	KST32-150	072147	1
wa_vt10115 		2 x 14 - 54	KST34-125	076893	1
	00005694_0 				
	00075024_0 	2 x 14 - 54	KST34-150	074520	1
	00008754_0 	2 x 14 - 54	KST34-200	079266	1

Dimensions mm	Enclosure depth (dimensions from top) 1. Mounting depth with mounting plate 2. Mounting depth with 7.5 mm high mounting rail 3. Mounting depth with 15 mm high mounting rail 4. Enclosure depth mm	Cable entry external diameter mm	Type name	Article no.	Units per package
wa_vt10215 	00005685_0 	3 x 14 - 68	KST43-125	081639	1
	00005691_0 	3 x 14 - 68	KST43-150	084012	1
	00005691_0 	3 x 14 - 68	KST43-200	086385	1
wa_vt10315 	00005694_0 	3 x 14 - 68	KST44-125	088758	1
	00075024_0 	3 x 14 - 68	KST44-150	091131	1

Dimensions mm	Enclosure depth (dimensions from top) 1. Mounting depth with mounting plate 2. Mounting depth with 7.5 mm high mounting rail 3. Mounting depth with 15 mm high mounting rail 4. Enclosure depth mm	Cable entry external diameter mm	Type name	Article no.	Units per package
wa_vt10315 	00008754_0 	3 x 14 - 68	KST44-200	093504	1
	00005697_0 	3 x 14 - 68	KST44-250	095877	1
wa_vt06918 	00008757_0 	3 x 14 - 68	KST45-200	194549	1

Dimensions mm	Enclosure depth (dimensions from top) 1. Mounting depth with mounting plate 2. Mounting depth with 7.5 mm high mounting rail 3. Mounting depth with 15 mm high mounting rail 4. Enclosure depth mm	Cable entry external diameter mm	Type name	Article no.	Units per package
wa_vt10415 	00012579_0 	3 x 14 - 68	KST48-200	098250	1
	00008760_0 	3 x 14 - 68	KST48-250	010450	1

Dimensions width mm	height mm	Cable entry at top and bottom	sideways	Type name	Article no.	Units per package

Bases for E-type individual enclosures

- Metric cable entry knockouts in all sides
- Sides can be fully knocked out

3200PIC-188

187.5	250	1 x M32/20 6 x M20 2 x M16	2 x M32/20 4 x M25/16 4 x M20 4 x M16	U-CI23E	038793	1
375	250	2 x M50/32 6 x M25/16 8 x M20	1 x M50/32 6 x M25/16	U-CI43E	064896	1
	375	1 x M50/32 2 x M40/25 8 x M25/16 2 x M20	1 x M63/40 6 x M25/16 10 x M20 2 x M16	U-CI44E	069642	1
	500	1 x M50/32 2 x M40/25 8 x M25/16 2 x M20	2 each: 1 x M50/32 6 x M25/16	U-CI45E	001893	1

Bases for X type individual enclosures

- Smooth sides without knockouts, 6.5 mm thick

3200PIC-189

187.5	250	drill as required	drill as required	U-CI23X	057909	1
375	250	drill as required	drill as required	U-CI43X	062655	1
	375	drill as required	drill as required	U-CI44X	067401	1
	500	drill as required	drill as required	U-CI45X	098470	1

Bases for panel enclosures

- Sides closed, can be fully knocked out
- Walls open at top and bottom

3200PIC-186

187.5	250	via FL2... flange	via FL3... flange	U-CI23	060282	1
375	250	via FL4... flange	via FL3... flange	U-CI43	065028	1
	375	via FL4... flange	via FL4... flange	U-CI44	067269	1
	500	via FL4... flange	via FL3... flange	U-CI45	001894	1
	750	via FL4... flange	via FL4... flange	U-CI48	083880	1

Transparent covers

- Sealable cover fasteners
- Gasket

3200PIC-112

vt18318_r

Dimensions width mm	height mm	Mounting depth mm	For use with	Type name	Article no.	Units per package
187.5	250	125	U-CI23...	D125-CI23	014830	10
		150	U-CI23...	D150-CI23	024322	4
375	250	125	U-CI43...	D125-CI43	017203	5
		150	U-CI43...	D150-CI43	038560	2
		200	U-CI43...	D200-CI43	074155	2
	375	125	U-CI44...	D125-CI44	019576	5
		150	U-CI44...	D150-CI44	040933	2
		200	U-CI44...	D200-CI44	076528	2
		250	U-CI44...	D250-CI44	081274	1
	500	200	U-CI45...	D200-CI45	001895	1
		279	U-CI45...	D250-CI45	194550	1
	750	200	U-CI48...	D200-CI48	078901	2
		250	U-CI48...	D250-CI48	083647	1
		250/360	U-CI48...	D250-CI48-NZM-RTR	194558	1

Non-transparent covers

- RAL 7035, light gray
- Sealable cover fasteners
- Gasket

3200PIC-113

Dimensions width mm	height mm	Mounting depth mm	For use with	Type name	Article no.	Units per package
187.5	250	125	U-CI23...	D125-CI23-RAL7035	194618	10
		150	U-CI23...	D150-CI23-RAL7035	194619	4
375	250	125	U-CI43...	D125-CI43-RAL7035	194620	5
		150	U-CI43...	D150-CI43-RAL7035	194621	2
		200	U-CI43...	D200-CI43-RAL7035	194622	2
	375	125	U-CI44...	D125-CI44-RAL7035	194623	5
		150	U-CI44...	D150-CI44-RAL7035	194624	2
		200	U-CI44...	D200-CI44-RAL7035	194625	2
		250	U-CI44...	D250-CI44-RAL7035	194626	1
	500	200	U-CI45...	D200-CI45-RAL7035	194627	1
		279	U-CI45...	D250-CI45-RAL7035	194551	1
	750	200	U-CI48...	D200-CI48-RAL7035	194628	2
		250	U-CI48...	D250-CI48-RAL7035	194629	1

Transparent covers

- 2 and 4 lockable diagonal cover fasteners, with cylinder lock
- Cylinder locks, common locking mechanism
- 2 sealable diagonal cover locks; no sealing option if all DV…-CI are replaced with DVZ-…-CI
- Scope of delivery: gasket, key

3200PIC-111

Dimensions width mm	height mm	Mounting depth mm	For use with	Number of cylindrical locks	Type name	Article no.	Units per package
187.5	250	125	U-CI23...	2	D125-CI23-DVZ	138354	4
		150	U-CI23...	2	D150-CI23-DVZ	138355	4
375	250	125	U-CI43...	2	D125-CI43-DVZ	138356	2
		150	U-CI43...	2	D150-CI43-DVZ	138357	2
		200	U-CI43...	2	D200-CI43-DVZ	138358	2
	375	125	U-CI44...	2	D125-CI44-DVZ	138359	2
		150	U-CI44...	2	D150-CI44-DVZ	138520	2
		200	U-CI44...	2	D200-CI44-DVZ	138521	2
		250	U-CI44...	2	D250-CI44-DVZ	138522	2
	500	200	U-CI45...	2	D200-CI45-DVZ	138523	1
	750	200	U-CI48...	4	D200-CI48-DVZ	138524	2
		250	U-CI48...	4	D250-CI48-DVZ	138525	2

Notes
If a non-transparent cover with cylinder lock is required, the cover type D...-CI...-RAL7035 should be used, in combination with the cylinder locks DVZ-125-CI or DVZ-150-250-CI.

Enclosure cover with door

- IP65 degree of protection
- Transparent door, with quick-release fasteners and 180° door opening angle
- Door hinges can subsequently be switched to left, right, top or bottom

VT33913

For use with	Mounting depth mm	Type name	Article no.	Units per package
U-CI23...	125	D125-CI23/T	072476	10
	150	D150-CI23/T	074849	4
U-CI43...	125	D125-CI43/T	077222	2
	150	D150-CI43/T	079595	2
	200	D200-CI43/T	081968	2
U-CI44...	125	D125-CI44/T	084341	2
	150	D150-CI44/T	086714	2
	200	D200-CI44/T	089087	2
	250	D250-CI44/T	091460	1

Doors

- IP65 degree of protection
- Door opening angle up to 180°
- To increase the mounting depth by 13.5 mm and the exterior height by 16 mm
- Door hinges can subsequently be switched to left, right, top or bottom
- With adhesive film for marking the cutout
- Fxing screws
- Transparent

3200PIC-407

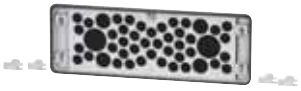
For use with	Type name	Article no.	Units per package
CI23..., D...-CI23	T-CI23	093833	2
CI43..., D...-CI43 CI45..., D...-CI45	T-CI43	096206	1
CI44..., D...-CI44 CI48..., D...-CI48	T-CI44	098579	1

	For use with	Type name	Article no.	Units per package
	Cover fasteners for Ci enclosures			
VT68513	CI23: 4 pieces CI43: 4 pieces CI44: 4 pieces	DV125-CI	001923	10
	CI23: 4 pieces CI43: 4 pieces CI44: 4 pieces CI45: 4 pieces CI48: 6 pieces	DV150-250-CI	001924	10
	Cover fasteners with cylinder lock for Ci enclosures • Lockable diagonal cover fasteners with cylinder lock, common locking mechanism • keys • At least one DV125-CI or DV150-250-CI standard cover fastener must be used for sealing			
VT68213	CI23: max. 4 pieces CI43: max. 4 pieces CI44: max. 4 pieces	DVZ125-CI	133100	2
	CI23: max. 4 pieces CI43: max. 4 pieces CI44: max. 4 pieces CI45: max. 4 pieces CI48: max. 4 pieces	DVZ150-250-CI	133101	2
	Set of cover hinges • For CI...E and CI...X individual enclosures • For CI... panel enclosure on the sides if no flange is installed			
3200PIC-219	CI23: 1 set CI43: 1 set CI44: 1 set CI45: 1 set CI48: 1 set Each set consists of 2 hinges.	DSCH-CI	034224	5
	Handle • Quick-release fastener for manual opening of the enclosure • For the D200 and D250 covers, the VHG50-CI handle extension must be ordered separately			
3200PIC-160	CI23: 4 pieces CI43: 4 pieces CI44: 4 pieces CI45: 4 pieces CI48: 6 pieces	HG-CI	046382	20
	Handle extension • For D200-... and D250-... covers			
3200PIC-218	CI43-200(250)/D200(250)-CI43: 4 pieces CI44-200(250)/D200(250)-CI44: 4 pieces CI45-200/D200-CI45: 4 pieces CI48-200(250)/D200(250)-CI48: 4 pieces	VHG50-CI	044880	8

	For use with	Type name	Article no.	Units per package
	Sealing kit			
	• For the upper edge of the D200-... and D250-... covers			
3200PIC-241	Use one set diagonally for each enclosure. Each set consists of 2 sealable locks.	PLV200-CI	044881	5

	Dimensions width mm	height mm	For use with	Type name	Article no.	Units per package
	Enclosure shroud					
	• IP65 degree of protection • To increase the mounting depth by 105 mm • For switchgear that may only be operated by professionals • Transparent • For NZM remote operators, among others					
vt19318_r	265	253	CI44... CI45... CI48...	NZM-RTR	194557	1

	Cable entry	Type name	Article no.	Units per package
	Flanges			
	• Foamed captive gasket • Quick mounting using wedge-lock fasteners (included as standard)			
	For 375 mm enclosures			
3200PIC-159	Drill as required	FL4-X	024355	10
3200PIC-154	26 x M16, 14 x M20	FL4-2	014863	10
3200PIC-155	5 x M25, 6 x M25/16, 6 x M32/20	FL4-3	017236	10
3200PIC-156	4 x M16, 2 x M25/16, 8 x M40/25	FL4-4	019609	10
3200PIC-157	2 x M16, 4 x M20, 2 x M25/16, 2 x M40/25, 3 x M50/32	FL4-5	021982	10
	For 250 mm enclosures			
3200PIC-153	Drill as required	FL3-X	093171	10
3200PIC-150	18 x M16, 4 x M20	FL3-1	088425	10
3200PIC-151	6 x M20, 4 x M25, 4 x M25/16	FL3-2	090798	10
3200PIC-152	2 x M16, 5 x M40/25	FL3-3	022644	10
	For 187.5 mm enclosures			
3200PIC-149	Drill as required	FL2-X	086052	10
3200PIC-147	10 x M16, 3 x M20	FL2-2	017898	10
3200PIC-148	6 x M20, 2 x M25/16	FL2-3	020271	10
	For 125 mm enclosures			
3200PIC-146	Drill as required	FL1-X	078933	10

	External cable diameter mm	For use with	Type name	Article no.	Units per package
	Sponge-rubber flange IP54				
	• IP54 degree of protection • To be fitted on the side of 375 mm enclosures				
3200PIC-158 	42 x 10 - 13 4 x 15 - 19 2 x 20 - 30	NYY, NYM 3 x 1.5 mm^2 - 5 x 2.5 mm^2 NYY, NYM 4 x 4 mm^2 - 5 x 10 mm^2 NYY, NYM 4 x 10 mm^2 - 4 x 50 mm^2	FL4-D	044879	10

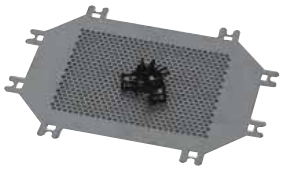
	For use with	Type name	Article no.	Units per package
	Spacers for flanges			
	• To extend the connection compartment by 25 mm			
3200PIC-209	For fitting FL3-... flanges on the side of 250 mm enclosures	ZRF3	067734	2
	For fitting FL4-... flanges on the side of 375 mm enclosures	ZRF4	070107	2

Mounting plates

• Includes 4 captive fixing screws

Micro-perforated, sheet steel, galvanized

vt05518



For use with	Thickness mm	Type name	Article no.	Units per package
CI23	1.5	MM-CI23	193444	5
CI43: 1 x CI45: 2 x	1.5	MM-CI43	193445	5
CI44	1.5	MM-CI44	193446	5
CI45	1.5	MM-CI45	193447	5
CI48	1.5	MM-CI48	193448	2

Pan-head screw

VT11110

For use with	Description	Type name	Article no.	Units per package
MM-CI…	Pan-head screw M4x8 thread-forming	EPLHS-M4X8	144028	100

Galvanized steel, 1.5 - 2 mm thick

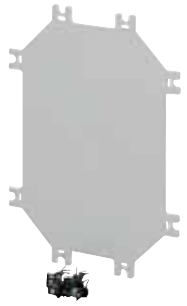
VT17013

For use with	Thickness mm	Type name	Article no.	Units per package
CI23	1.5	M-CI23	193438	5
CI43: 1 x CI45: 2 x	1.5	M-CI43	193439	5
CI44	2	M-CI44	193440	5
CI45	2	M-CI45	193441	5
CI48	2	M-CI48	193442	2

Thread-forming screw

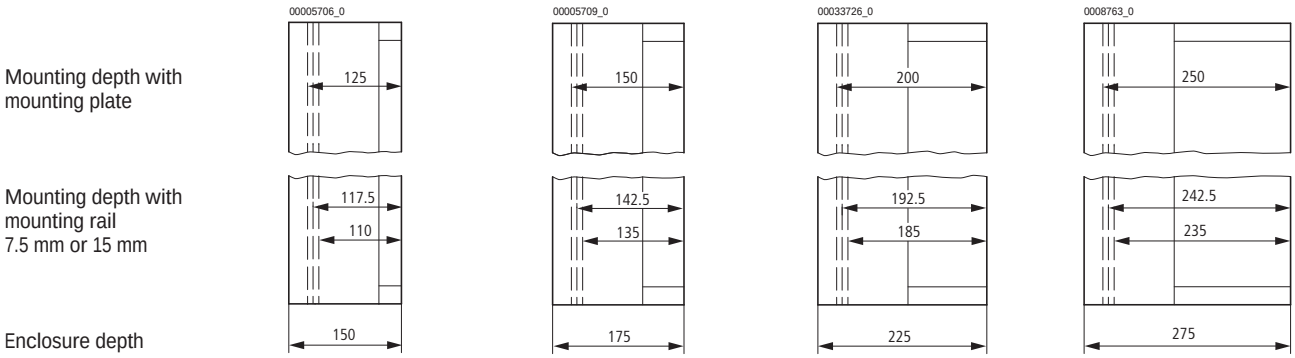
VT11110

For use with	Description	Type name	Article no.	Units per package
M-CI…	Thread-forming pan-headed screw M4x8, TORX 20, DIN 7500 1 set = 100 pieces	GFS-CI	193443	1

	For use with	Type name	Article no.	Units per package
	Galvanized sheet steel, 3 mm thick			
VT17013	CI23	M3-CI23	019709	5
	CI43: 1 x CI45: 2 x	M3-CI43	029201	5
	CI44	M3-CI44	031574	5
	CI45	M3-CI45	003036	5
	CI48	M3-CI48	036320	2
	Glass-fiber reinforced insulating material, 4 mm thick • Devices are secured using hank nuts			
VT17113 	CI23	IM4-CI23	086081	5
	CI43: 1 x CI45: 2 x	IM4-CI43	088454	5
	CI44	IM4-CI44	090827	5
	CI48	IM4-CI48	093200	5

	For use with	Description	Type name	Article no.	Units per package
	Hank nuts for insulated mounting plate				
VT69313	IM4…	M4 thread	EM4-CI	002293	100
	IM4…	M5 thread	EM5-CI	002294	100
	IM4…	M6 thread	EM6-CI	002295	100

Notes
CI...-125... CI...-150... CI...-200... CI...-250...



Module mounting rail

- 330 mm of usable length for 375 mm enclosures
- 3 mm galvanized steel, or 1.5 mm galvanized micro-perforated 1.5 mm steel
- Includes fixing screws

	Thickness mm	For use with	Type name	Article no.	Units per package
vt06418	3	horizontal CI43 CI44 CI45 CI48 vertical CI44	ML4-CI	193449	10
	1.5	horizontal CI43 CI44 CI45 CI48 vertical CI44	MML-4-CI	193450	10

Mounting rail to IEC/EN 60715

- Galvanized sheet steel
- Includes 2 captive fixing screws

	Bar height mm	For use with	Type name	Article no.	Units per package
3200PIC-229	7.5	145 mm of usable length For 187.5 mm enclosures	CL2	029064	20
		207 mm of usable length For 250 mm enclosures	CL3	033810	20
		332 mm of usable length For 375 mm enclosures	CL4	038556	20
3200PIC-232	15	145 mm of usable length For 187.5 mm enclosures	CL2-15	031437	10
		207 mm of usable length For 250 mm enclosures	CL3-15	036183	10
		332 mm of usable length For 375 mm enclosures	CL4-15	040929	10

Spacer

- For raising the mounting systems
- 4 pieces are required for the mounting plate, and 2 for the mounting rail

	Raising piece	Type name	Article no.	Units per package
3200PIC-224	By 10 mm	ADT200-190	002289	25
	By 15 mm	ADT125-110	002290	25
3200PIC-246	By 25 mm	HS25-CI	002291	10
	By 50 mm	HS50-CI	002292	10

Captive fixing screw

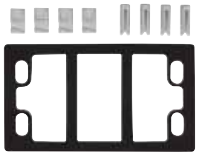
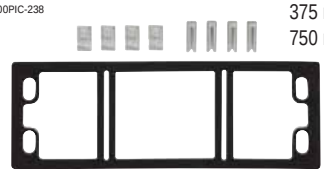
- For fixing the mounting systems
- For replacement purposes

	For use with	Type name	Article no.	Units per package
3200PIC-273	Mounting plates, pre-drilled mounting plates, mounting rails, module mounting rails	UBS4.8	002288	25

	For use with	Type name	Article no.	Units per package
	Meter shrouds			
	• For 96 x 96 mm snap-on metering devices, max. 6 pieces • The meter shroud is secured using the AH-GA support brackets.			
VT28413	CI43E-200 and CI43E-250 enclosures	GA-MS-I43	053502	1
	CI44E-250 enclosures	GA-MS-I44	055875	1
	Set of support brackets			
VT28413	For meters and protective shrouds (the GA-MS-I43 meter shroud must be ordered separately). Each set consists of 4 brackets.	AH-GA	002305	10
	Set of support brackets			
VT65513	To blank off unused spaces: also required as an adapter with snap-on 72 x 72 mm meters and when fitting the PKZM0 (voltmeter) or T0-... (meter changeover switch) devices. (The GA-MS-I43 meter shroud must be ordered separately)	HBA-4344	002316	10
	Fixing kits			
VT63213	For fitting the PKZM0, T0 devices, max. 2 pieces. To be fitted in parallel with the 250 mm wide enclosure side. (The GA-MS-I43 meter shroud must be ordered separately)	BFS-PT3	002317	5
	For fitting the PKZM0, T0 devices, max. 3 pieces To be fitted in parallel with the 250 mm wide enclosure side. (The GA-MS-I43 meter shroud must be ordered separately)	BFS-PT4	002318	5

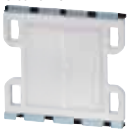
Connection kits

- For connecting the enclosures to each other, includes wedge-lock fastener

	For use with enclosure size	Type name	Article no.	Units per package
3200PIC-235	187.5 mm	BS2-CI	090750	10
3200PIC-236 	250 mm 500 mm (use 2 pieces)	BS3-CI	097869	10
3200PIC-238 	375 mm 750 mm (use 2 pieces)	BS4-CI	014815	10

Flange adapters

- For connecting enclosures with sides of different lengths

	Type name	Article no.	Units per package
3200PIC-243 	FT-CI	002319	10

Cross-strut kits

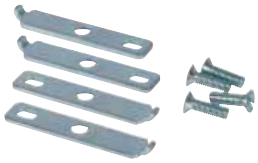
- Enable the fitting of cables or busbars from the front

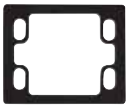
	For use with enclosure size	Type name	Article no.	Units per package
3200PIC-272	250 mm	STB3-CI	219217	1
	375 mm	STB4-CI	034223	1

Gland plates

- Enable the fitting of cables or busbars from the front

3200PIC-243	250 mm For 2 cables of 14 - 54 mm length	KS3-CI	057621	1
	375 mm For 3 cables of 14 - 68 mm length	KS4-CI	062367	1

	Description	Type name	Article no.	Units per package
	Fixing strap kits			
	• For fixing Ci enclosures directly to the wall • Max. 4 CI43... enclosures			
VT69713 	Galvanized version. Each set contains 4 straps.	BL-CI	036168	5
	V2A steel version. Each set contains 4 straps.	BL-CI-VA	038541	5
	Wall-fixing brackets			
	• Sheet steel, RAL 7035 powder coated • For fixing Ci enclosures directly to the wall with a clearance of 50 mm • One wall-fixing bracket must be fitted to every second enclosure, for transport purposes additional brackets should be added at the bottom			
vt05918	Section length 2125 mm, cut to fit	W16/32-CI	193455	1
	Max. 2 x CI43 one above the other	W4/8-CI	193451	1
	Max. 2 x CI44 one above the other	W6/12-CI	193452	1
	Max. 4 x CI43 one above the other	W8/16-CI	193453	1
	Max. 5 x CI43 one above the other	W10/20-CI	193454	1
	Fixing screw			
VT11609	For fixing Ci enclosures directly to the W... wall-mounting brackets and the WS..., WW... sections.	LT284-M6X20-C	050325	100
	Coupling piece			
3200PIC-275	For enclosure assembly and flange mounting, K-CI required	VS-CI	002315	100
	For installing gland plates, K-CI required	VS-KS-CI	038460	25
	Wedge			
VT66813	For enclosure assembly and the installation of flanges and gland plates, in combination with VS-CI or VS-KS-CI	K-CI	002314	100
	Bracket			
3200PIC-257	For enclosure assembly, enclosure size 375 mm	KD4-CI	002313	25

	Description	Type name	Article no.	Units per package
	Gaskets			
	• For enclosure assembly			
3200PIC-257 	Enclosure size 187.5 mm	D2-CI	002310	20
3200PIC-284	Enclosure size 250 mm	D3-CI	002311	20
3200PIC-238	Enclosure size 375 mm	D4-CI	002312	20

Individual enclosures with covers

- Transparent cover, sealable cover fasteners
- Enclosure base RAL 7035 with smooth sides
- IP65 degree of protection
- Integrated pressure-relief mechanism in the event of a short-circuit
- Fixing straps for wall mounting included
- UL 508 approved

3200PIC-384

Dimensions width mm	height mm	depth mm	Mounting depth mm	Type name	Article no.	Units per package
187.5	250	150	125	CI23X-125-NA	002209	1
		175	150	CI23X-150-NA	002212	1
375	250	150	125	CI43X-125-NA	002213	1
		175	150	CI43X-150-NA	002232	1
		225	200	CI43X-200-NA	002217	1
	375	150	125	CI44X-125-NA	002218	1
		175	150	CI44X-150-NA	002219	1
		225	200	CI44X-200-NA	002220	1
		275	250	CI44X-250-NA	002224	1
	500	225	200	CI45X-200-NA	264023	1

Notes Information for export to North America:
Product standards UL 508A; CSA-C22.2 No. 94; IEC/EN 60529; CE marking
UL File No. E54120, E337418, E499317
UL CCN NITW
CSA File No. 27130
CSA Class No. 3211-07
NA Certification UL listed, CSA certified
Specially designed for NA Yes
Suitable for industrial control panels
Degree of protection IEC: IP65; UL/CSA Types 1, 12, 13, 4X, indoor only

Panel enclosures with cover and flanges

- Transparent cover, sealable cover fasteners
- Base in RAL 7035, featuring removable smooth gland plate inserts on all 4 sides
- IP65 degree of protection
- Integrated pressure-relief mechanism in the event of a short-circuit
- Fixing straps for wall mounting included
- UL 508 approved

3200PIC-386

Dimensions width mm	height mm	depth mm	Mounting depth mm	Type name	Article no.	Units per package
234	296	150	125	CI23-125-NA	002234	1
		175	150	CI23-150-NA	002237	1
421	296	150	125	CI43-125-NA	002238	1
		175	150	CI43-150-NA	002241	1
		225	200	CI43-200-NA	002242	1
	421	150	125	CI44-125-NA	002245	1
		175	150	CI44-150-NA	002246	1
		225	200	CI44-200-NA	002249	1
		275	250	CI44-250-NA	002250	1
	546	225	200	CI45-200-NA	264024	1
	796	225	200	CI48-200-NA[1)]	002253	1
		275	250	CI48-250-NA[1)]	002254	1

Notes Information for export to North America:
Product standards UL 508A; CSA-C22.2 No. 94; IEC/EN 60529; CE marking
UL File No. E54120, E337418, E499317
UL CCN NITW
CSA File No. 27130
CSA Class No. 3211-07
NA Certification UL listed, CSA certified
Specially designed for NA Yes
Suitable for industrial control panels
Degree of protection IEC: IP65; UL/CSA Types 1, 12, 13, 4X, indoor only

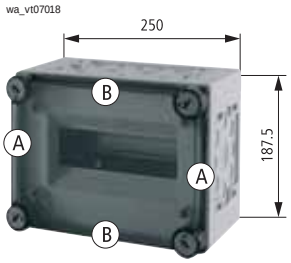
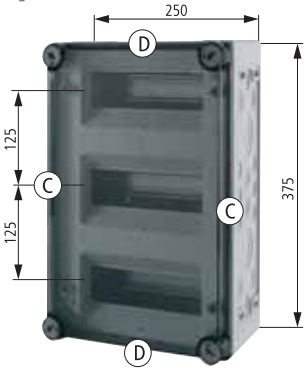
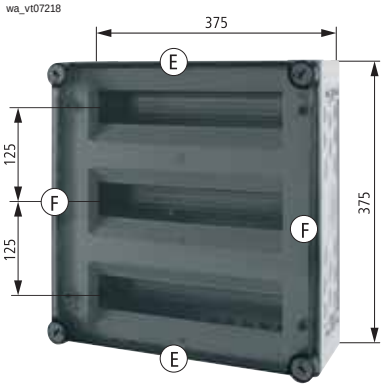
[1)] IEC: IP65; UL/CSA Types 1, 12, 13, indoor only

	For use with enclosure size	Type name	Article no.	Units per package
	Flanges			
3200PIC-153	187.5 mm	FL2-X-NA	208310	10
	250 mm	FL3-X-NA	012462	10
	375 mm	FL4-X-NA	208309	10

Notes Information for export to North America:
Product standards UL 508A; CSA-C22.2 No. 94; IEC/EN 60529; CE marking
UL File No. E54120, E337418, E499317
UL CCN NITW
CSA File No. 27130
CSA Class No. 3211-07
NA Certification UL listed, CSA certified
Specially designed for NA Yes
Suitable for industrial control panels
Degree of protection IEC: IP65; UL/CSA Types 1, 12, 13, 4X, indoor only

Prepared enclosures, individual MCB enclosures

- Metric cable-entry knockouts in all side walls, see diagram A - F
- IP65 degree of protection
- Integrated pressure-relief mechanism in the event of a short-circuit
- Size 1 devices for front mounting in accordance with DIN 43880, e.g. for AFDD, FI, LS, etc.
- Transparent cover with quick-release fasteners, transparent door for operator access to the front-mounting devices
- Mounting rails for snap-fitting the devices
- 1 x blanking strip for unused locations, protective shroud with inscription label
- N/PE combination plug-in terminal
- Fixing straps for wall mounting, sealable cover fasteners
- Enclosure depth 150 mm

Dimensions mm	1-pole MCBs (TE) Number	PE and N terminals Description	Version	Type name	Article no.	Units per package
wa_vt07018 	9	1 x 2.5-25 mm² and 7 x 0.5-4 mm²	Transparent cover	AE/I23E	029766	1
		1 x 2.5-25 mm² and 7 x 0.5-4 mm²	Transparent door	AE/I23E/T	032139	1
wa_vt07118 	27	3 x 2.5-25 mm² and 21 x 0.5-4 mm²	Transparent cover	AE/I43E	000239	1
		3 x 2.5-25 mm² and 21 x 0.5-4 mm²	Transparent door	AE/I43E/T	002612	1
wa_vt07218 	45	3 x 2.5-25 mm² and 21 x 0.5-4 mm²	Transparent cover	AE/I44E	004985	1
		3 x 2.5-25 mm² and 21 x 0.5-4 mm²	Transparent door	AE/I44E/T	061937	1

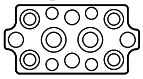
Notes

A B C D

00062217_0

1 x M32/20 2 x M32/20 2 x M50/20 1 x M50/32
6 x M20 4 x M25/16 6 x M25/16 6 x M25/16
2 x M16 4 x M20 8 x M20
4 x M16

00062220_0



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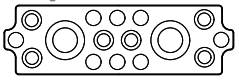
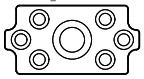
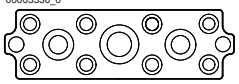


00062226_0



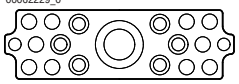
E F

00063330_0



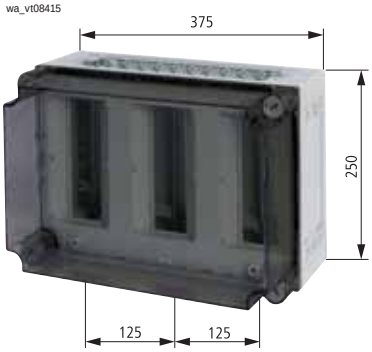
1 x M50/32 1 x M63/40
2 x M40/25 6 x M25/16
8 x M25/16 10 x M20
2 x M20 2 x M16

00062229_0



Prepared enclosures, MCB distribution board enclosures

- Sides closed, with full area knockout, open at top and bottom
- IP65 degree of protection
- Integrated pressure-relief mechanism in the event of a short-circuit
- Size 1 devices for front mounting in accordance with DIN 43880, e.g. for AFDD, FI, LS, etc.
- Transparent cover with quick-release fasteners
- Mounting rails for snap-fitting the devices
- 1 x blanking strip for unused locations, protective shroud with inscription label
- Sealable cover fasteners
- Without PE/N terminals

Dimensions mm	1-pole MCBs (TE) Number	Enclosure depth mm	Type name	Article no.	Units per package
wa_vt08315 	9	150	AV/I23-125	036089	1
		175	AV/I23-150	043208	1
wa_vt08415 	27	150	AV/I43-125	047954	1
		225	AV/I43-200	045581	1
wa_vt07318 	45	150	AV/I44-125	059819	1
		225	AV/I44-200	062192	1

Mounting rail supports

1 row

	For use with	Notes	Type name	Article no.	Units per package
VT62813	CI23	Busbar length 162 mm for 9 space units	TG23	044004	1

3 rows

	For use with	Notes	Type name	Article no.	Units per package
VT62613	CI43	Busbar length 162 mm for 3 x 9 space units	TG43	046377	1
	CI44	Busbar length 270 mm for 3 x 15 space units	TG44	048750	1

Protective shrouds

- Busbar shroud with inscription label

	For use with	Notes	Type name	Article no.	Units per package
VT59313	TG23	1 row	GA-O/I23	051123	5
	TG43	3 rows	GA-O/I43	053496	5
	TG44	3 rows	GA-O/I44	055869	5

Blanking strip

- For blanking off unused locations

	For use with	Notes	Type name	Article no.	Units per package
vt113114	CI...	Thinly ribbed for 12 space units	BS-12MF-GY	178980	10/100
vt113414	CI...	Widely ribbed for 12 space units	BS-12MB-GY	178979	10/100

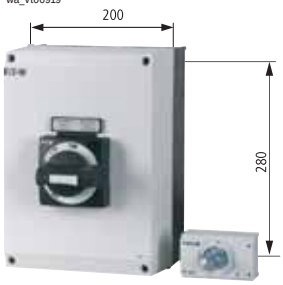
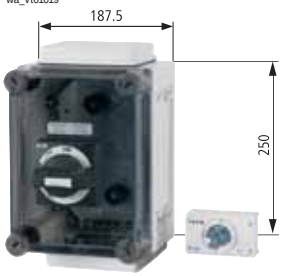
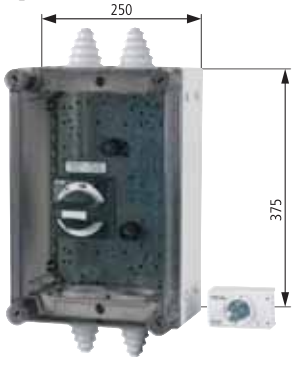
	PE and N terminals Description	For use with	Type name	Article no.	Units per package
	KSK PE pre-assembled combination plug-in terminal				
	1 x 2.5-25 mm² and 7 x 0.5-4 mm²	TG23	KSK-1PE-CI	194559	1
vt10618_c 	3 x 2.5-25 mm² and 21 x 0.5-4 mm²	TG43 TG44	KSK-3PE-CI	194561	1
	KSK N pre-assembled combination plug-in terminal				
	1 x 2.5-25 mm² and 7 x 0.5-4 mm²	TG23	KSK-1N-CI	194560	1
vt10618_c 	3 x 2.5-25 mm² and 21 x 0.5-4 mm²	TG43 TG44	KSK-3N-CI	194562	1

Prepared individual enclosures for NZM circuit breakers and N switch-disconnectors

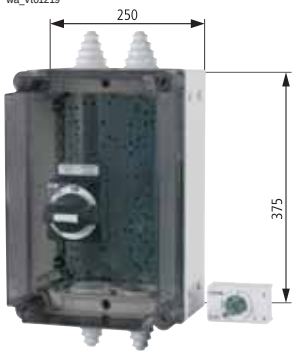
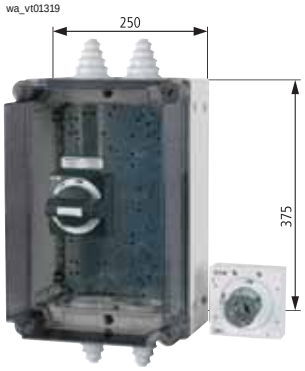
- With door coupling rotary handle
- Complete, includes all necessary functional parts
- Not UL/CSA approved
- Suitable for circuit breakers and switch-disconnectors, for separate mounting with top and bottom cable entry
- Includes fixing straps for wall mounting
- Short-circuit proof up to 10 kA at 415 V 50/60 Hz with NZM circuit breakers
- Cannot be combined with the NZM...-XR remote operator, the NZM...XSV plug-in unit or the NZM...-XAV withdrawable unit
- Insulated additional terminals for the 4th or 5th pole must be ordered separately
- **Only for switches with box terminals for direct connection of cables**

Standard, black/gray

- Lockable in the 0 position using up to 3 padlocks on the handle
- With additional cover interlock

Dimensions mm	Degree of protection	Max. rated uninterrupted current I_u A	For use with	Basic enclosures	Terminals that can be retrofitted[1]	Type name	Article no.	Units per package
wa_vt00919 	IP65	≤ 63	PN1, N(S)1	CI-K5-160-M	K50/1	NZM1-XCIK5-TVD	271521	1
wa_vt01019 	IP65	≤ 63	NZM1, PN1, N(S)1	CI23-150	K50/1	NZM1-XCI23-TVD	271522	1
wa_vt01119 	IP65	≤ 125	NZM1(-4), PN1(-4), N(S)1(-4)	CI43-150	K50/1, K95/1N/BR	NZM1-XCI43-TVD	271523	1

Notes
[1] For 3-pole switches: for the 4th and 5th conductor, as necessary (N or PE conductors)
For 4-pole switches: for the 5th conductor (PE conductor)

Dimensions mm	Degree of protection	Max. rated uninterrupted current I_u A	For use with	Basic enclosures	Terminals that can be retrofitted[1]	Type name	Article no.	Units per package
wa_vt01219 	IP65	≤ 160	NZM1(-4), PN1(-4), N(S)1(-4)	CI43-200	K50/1, K95/1N/BR	NZM1-XCI43/2-TVD	104645	1
wa_vt01319 	IP65	≤ 200	NZM2(-4), PN2(-4), N(S)2(-4)	CI43-200	K50/1, K95/1N/BR, K150/1/BR, K240/1BR	NZM2-XCI43-TVD	271524	1
wa_vt01419	IP65	≤ 250	NZM2(-4), PN2(-4), N(S)2(-4)	CI45-200	K50/1, K95/1N/BR, K150/1/BR, K240/1BR	NZM2-XCI45-TVD	280418	1

Notes

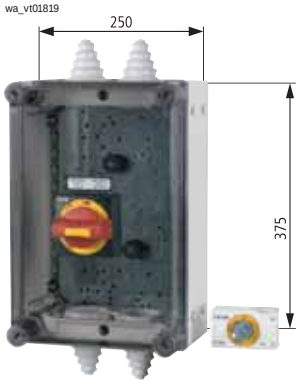
[1] For 3-pole switches: for the 4th and 5th conductor, as necessary (N or PE conductors)
For 4-pole switches: for the 5th conductor (PE conductor)

Dimensions mm	Degree of protection	Max. rated uninterrupted current I_u A	For use with	Basic enclosures	Terminals that can be retrofitted[1]	Type name	Article no.	Units per package
wa_vt01519	IP65	≤ 400	NZM3(-4), PN3(-4), N(S)3(-4)	CI48-250	K95/1N/BR, K150/1/BR, K240/1BR, K2X240/1/BR	NZM3-XCI48-TVD	271525	1

Notes
[1] For 3-pole switches: for the 4th and 5th conductor, as necessary (N or PE conductors)
For 4-pole switches: for the 5th conductor (PE conductor)

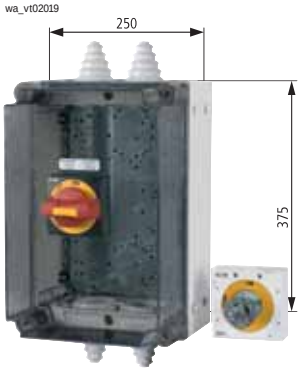
Red-yellow for emergency power-off

- Lockable on the handle and on the switch using up to 3 padlocks
- Lockable in the 0 position on the handle
- Additional cover interlock, lockable on the circuit breaker in the 0 position

Dimensions mm		Degree of protection	Max. rated uninterrupted current I_u A	For use with	Basic enclosures	Terminals that can be retrofitted[1]	Type name	Article no.	Units per package
wa_vt01619		IP65	≤ 63	PN1, N(S)1	CI-K5-160-M	K50/1	NZM1-XCIK5-TVDVR	271526	1
wa_vt01719		IP65	≤ 63	NZM1, PN1, N(S)1	CI23-150	K50/1	NZM1-XCI23-TVDVR	271527	1
wa_vt01819		IP65	≤ 125	NZM1(-4), PN1(-4), N(S)1(-4)	CI43-150	K50/1, K95/1N/BR	NZM1-XCI43-TVDVR	271528	1

Notes

[1] For 3-pole switches: for the 4th and 5th conductor, as necessary (N or PE conductors)
For 4-pole switches: for the 5th conductor (PE conductor)

Dimensions mm	Degree of protection	Max. rated uninterrupted current I_u A	For use with	Basic enclosures	Terminals that can be retrofitted[1]	Type name	Article no.	Units per package
wa_vt01919	IP65	≤ 160	NZM1(-4), PN1(-4), N(S)1(-4)	CI43-200	K50/1, K95/1N/BR	NZM1-XCI43/2-TVDVR	104646	1
wa_vt02019 	IP65	≤ 200	NZM2(-4), PN2(-4), N(S)2(-4)	CI43-200	K50/1, K95/1N/BR, K150/1/BR, K240/1BR	NZM2-XCI43-TVDVR	271529	1
wa_vt02119	IP65	≤ 250	NZM2(-4), PN2(-4), N(S)2(-4)	CI45-200	K50/1, K95/1N/BR, K150/1/BR, K240/1BR	NZM2-XCI45-TVDVR	279356	1

Notes
[1] For 3-pole switches: for the 4th and 5th conductor, as necessary (N or PE conductors)
For 4-pole switches: for the 5th conductor (PE conductor)

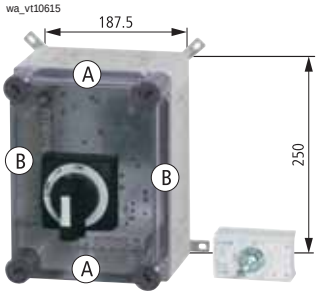
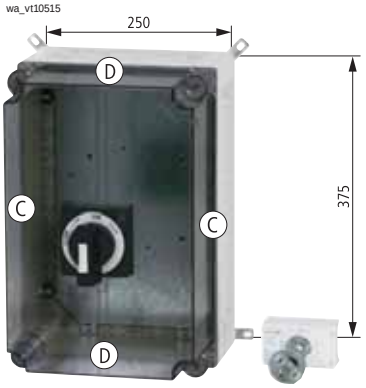
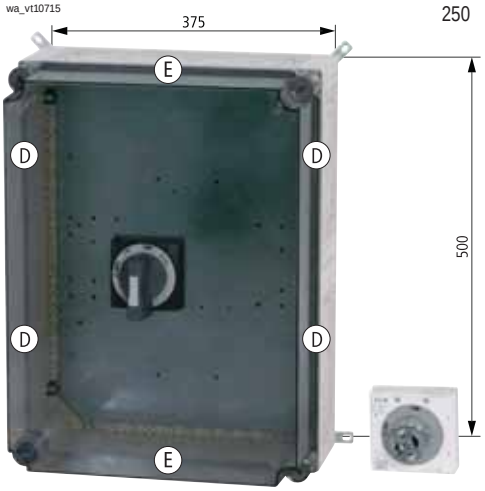
Dimensions mm	Degree of protection	Max. rated uninterrupted current I_u A	For use with	Basic enclosures	Terminals that can be retrofitted[1]	Type name	Article no.	Units per package
wa_vt02219	IP65	≤ 400	NZM3(-4), PN3(-4), N(S)3(-4)	CI48-250	K95/1N/BR, K150/1/BR, K240/1BR, K2X240/1/BR	NZM3-XCI48-TVDVR	271530	1

Notes

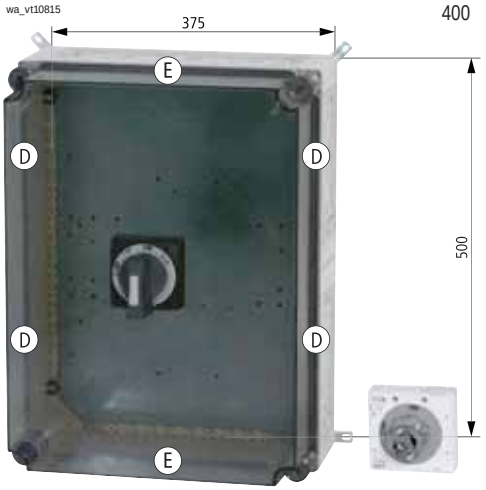
[1] For 3-pole switches: for the 4th and 5th conductor, as necessary (N or PE conductors)
For 4-pole switches: for the 5th conductor (PE conductor)

Prepared enclosures for 3-pole and 4-pole NZM… circuit breakers/N… switch-disconnectors

- For use as individual enclosures[1] or in distribution boards
- The technical data of other equipment must be observed when connecting distribution boards
- IP65 degree of protection
- Integrated pressure-relief mechanism in the event of a short-circuit
- Metric cable-entry knockouts in all side walls, see diagram A - F, with the exception of CI48...: side walls without knockouts, open at the bottom
- Side walls can be knocked out, can be grouped with other devices
- With NZM...-XTVD door-coupling rotary handle and shaft extension
- Transparent cover, pre-drilled
- Mounting plate is pre-drilled for the switch and for one PE and one N terminal each
- Mounting plate made from 3 mm thick sheet steel
- Sealable cover fasteners
- Fasteners for terminals
- Fixing straps for wall mounting included
- Cannot be combined with the NZM...-XR remote operator, the NZM...XSV plug-in unit or the NZM...-XAV withdrawable unit

Dimensions mm	Rated uninterrupted current I_u A	Can be used for base units	Can be used with terminals[2]	Basic enclosures	Type name	Article no.	Units per package
wa_vt10615 	63	NZM1(-4) N1(-4), PN1(-4) NS1 LZM1(-4) LN1(-4)	K95/1N...	CI23E-150	MCCB1-63/I23E-150	138538	1
wa_vt10515 	125	NZM1(-4) N1(-4), PN1(-4) NS1 LZM1(-4) LN1(-4)	K50/1 K95/1N...	CI43E-150	MCCB1-125/I43E-150	138539	1
	160	NZM1(-4) N1(-4), PN1(-4) NS1 LZM1(-4) LN1(-4)	K50/1 K95/1N...	CI43E-200	MCCB1-160/I43E-200	138540	1
	200	NZM2(-4) N2(-4), PN2(-4) NS2 LZM2(-4) LN2(-4)	K50/1 K95/1N... K150/1N...	CI43E-200	MCCB2-200/I43E-200	138541	1
wa_vt10715 	250	NZM2(-4) N2(-4), PN2(-4) NS2 LZM2(-4) LN2(-4)	K50/1 K95/1N... K150/1N...	CI45E-200	MCCB2-250/I45E-200	138542	1

Notes
[1] Insulated additional terminals for the 4th or 5th pole must be ordered separately.
[2] The short-circuit ratings of the individual enclosures must be observed.

Dimensions mm	Rated uninterrupted current I_u A	Can be used with base units	Can be used with terminals[2]	Basic enclosures	Type name	Article no.	Units per package
wa_vt10815 	400	NZM3(-4) N3(-4), PN3(-4) NS3 LZM3(-4) LN3(-4)	K50/1 K95/1N... K150/1N... K240/1N...	CI45E-200	MCCB3-400/I45E-200	138543	1
wa_vt10915	630	NZM3(-4) N3(-4), PN3(-4) NS3 LZM3(-4) LN3(-4)	K50/1 K95/1N... K150/1N... K240/1N... K2X240/1N...	Ci combination consisting of CI48-200 + CI43E-200 + STB4-CI	MCCB3-630/I48/I43E-200	138544	1

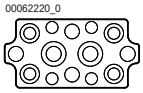
Notes

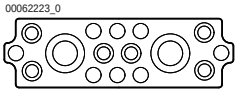
[2] The short-circuit ratings of the individual enclosures must be observed.

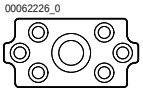
A B C D E

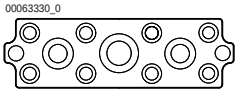
00062217_0

1 x M32/20 2 x M32/20 2 x M50/20 1 x M50/32 1 x M50/32
6 x M20 4 x M25/16 6 x M25/16 6 x M25/16 2 x M40/25
2 x M16 4 x M20 8 x M20 8 x M25/16
4 x M16 2 x M20

00062220_0 

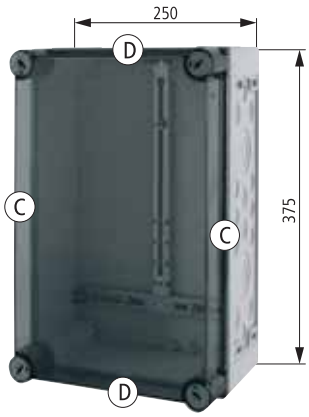
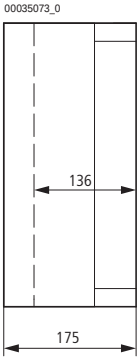
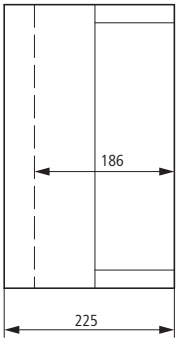
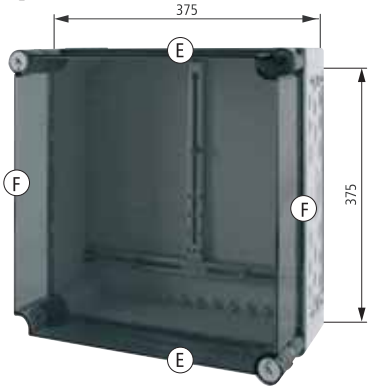
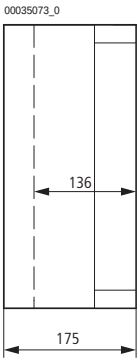
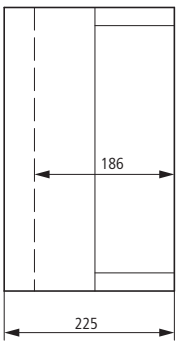
00062223_0 

00062226_0 

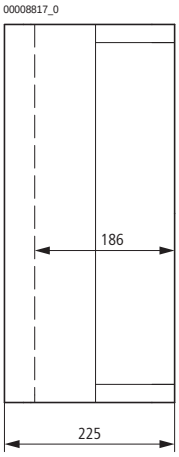
00063330_0 

Prepared enclosures, meter enclosures with meter rail

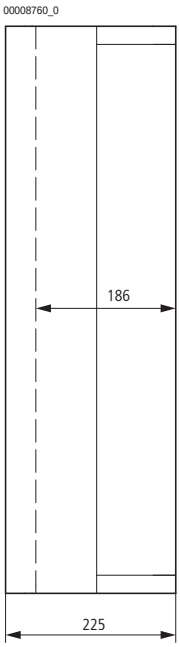
- Metric cable entry knockouts in all sides, see diagram C - F (exception: ZG/I48-200)
- IP65 degree of protection
- Integrated pressure-relief mechanism in the event of a short-circuit
- Transparent cover
- Meter rail includes the meter-fixing screws and nuts, for direct mounting in the base
- Fixing straps for wall mounting
- Sealable cover fasteners

Dimensions mm	Enclosure depth (dimensions from top) 1. Meter rail 2. Enclosure depth mm	Version	Type name	Article no.	Units per package
wa_vt07418 	00035073_0 	Transparent cover	ZG/I43E-G-150	013151	1
	00007122_0 	Transparent cover	ZG/I43E-G-200	015524	1
wa_vt02319 	00035073_0 	Transparent cover	ZG/I44E-150	017897	1
	00007122_0 	Transparent cover	ZG/I44E-200	020270	1

Dimensions mm	Enclosure depth (dimensions from top) 1. Meter rail 2. Enclosure depth mm	Version	Type name	Article no.	Units per package
		Transparent cover	ZG/I45E-200	098479	1

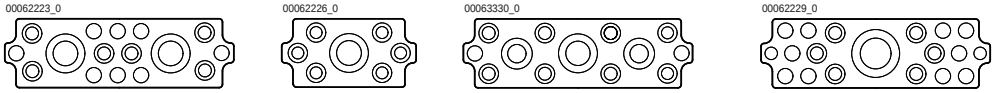


		Transparent cover; top and bottom with full-area knockouts for FL4... flanges no knockouts in the sides	ZG/I48-200	022643	1



Notes

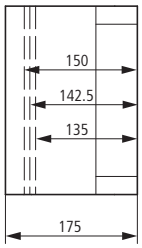
C D E F



2 x M50/20 1 x M50/32 1 x M50/32 1 x M63/40
6 x M25/16 6 x M25/16 2 x M40/25 6 x M25/16
8 x M20 8 x M25/16 10 x M20
2 x M20 2 x M16

Prepared enclosures, APZ enclosures

- Mounting depth 150 mm
- For integrating a router provided by the measuring point operator
- To be mounted between the termination point of the line network (APL) and the meter position
- Installation of the router on a 330 x 205 mm mounting plate
- Router not included
- 1 x pre-mounted mounting rail
- With transparent cover
- Cover fasteners for tool operation
- Sealable cover fasteners
- With metric cable entry knockouts in all sides
- IP65 degree of protection
- Fixing straps for wall mounting included

Dimensions mm	Enclosure depth (dimensions from top) 1. Mounting depth with mounting plate 2. Mounting depth with 7.5 mm high mounting rail 3. Mounting depth with 15 mm high mounting rail 4. Enclosure depth mm	Version	Type name	Article no.	Units per package
wa_vt02419 	00027042_0 	Transparent cover	CI43E-150-APZ	194606	1

Description	For use with	Type name	Article no.	Units per package
Meter rail				
vt06318 Includes 3 meter-fixing screws and nuts to DIN 46300. For installation directly in the enclosure base.	CI43…	ZK-43-CI	193459	1
	CI44…	ZK-44-CI	193460	1

Prepared enclosures, busbar enclosures, 60 mm system

- IP65 degree of protection
- Integrated pressure-relief mechanism in the event of a short circuit
- Transparent cover
- Top and bottom with full-area knockouts
- Sides closed, with full area knockout
- Sealable cover fasteners
- CI44-200 basic enclosure
- Distance between busbar centers: 60 mm
- Untreated copper, with integrated grouping function
- 3-pole system, copper for N/PE can be retrofitted
- Includes busbar support for N/PE
- Short-circuit rating I_{cw} up to 37 kA, at CU30x10, 630 A

Dimensions mm	Rated operational current I_e A	Features	Type name	Article no.	Units per package
wa_vt02519	250	L1, L2, L3: CU20x5 N can be retrofitted with CU20x5 PE can be retrofitted with CU12x5	CI44-S60-250/3	194565	1
	400	L1, L2, L3: CU20x10 N can be retrofitted with CU20x10 PE can be retrofitted with CU20x5	CI44-S60-400/3	194566	1
	630	L1, L2, L3: CU30x10 N can be retrofitted with CU30x10 PE can be retrofitted with CU30x5	CI44-S60-630/3	194567	1

Busbar links, 60 mm system

- Includes fasteners

	Features	Type name	Article no.	Units per package
vt15419	CU12x5	BBT-S60-12x5-CI	194591	1
	CU20x5	BBT-S60-20x5-CI	194593	1
	CU30x5	BBT-S60-30x5-CI	194594	1
	CU20x10	BBT-S60-20x10-CI	194595	1
	CU30x10	BBT-S60-30x10-CI	194596	1

3-pole busbar supports, 60 mm system

- 3 poles
- Short-circuit rating I_{cw} in combination with xEnergy Safety up to 37 kA, 1 s with CU30x10, 630 A
- Distance between busbar centers: 60 mm
- Can be expanded to 4 or 5 poles
- Includes fasteners

VT09610

For use with	For copper busbars	Type name	Article no.	Units per package
CI44… + SL630-ADP-CI	12x5 - 30x10	SL63031	148582	1
CI44… + SL630-ADP-CI	20x5 - 30x10	SL63032	148583	1
CI44… + SL630-ADP-CI	30x10	SL63033	148584	1

1-pole busbar supports, 60 mm system

- 1 pole for N/PE
- Short-circuit rating I_{cw} in combination with xEnergy Safety up to 37 kA, 1 s with CU30x10, 630 A
- Includes fasteners

VT09710

For use with	For copper busbars	Type name	Article no.	Units per package
CI44… + SL630-ADP-CI	12x5 - 30x10	SLPEN63011	148585	1
CI44… + SL630-ADP-CI	20x5 - 30x10	SLPEN63012	148586	1
CI44… + SL630-ADP-CI	30x10	SLPEN63013	148587	1

Mounting brackets for busbar supports, 60 mm system

- For 3-, 4- and 5-pole systems
- Includes fasteners

vt09618_c

3x UBS4, 8 per bracket		SL630-ADP-CI	184465	2

Max. rated operational current I_e (A)	Conductor type[1]	Special features	Usage	Notes	Type name	Article no.	Units per package

Terminals for 60 mm system

Clamp terminal

- Termination to busbars does not require drilling

VT35910

480	35 - 150 mm², AWG2/0 - MCM300; directly terminated: ◎ ⊙ ◇	Termination to busbars does not require drilling	12x5/10 20x5/10	A cable block is used to connect the conductor to the busbar	AKS150	138374	6

VT13306

500	95 - 185 mm², AWG3/0 - MCM350; directly terminated: ◎ ⊙ ◇	Termination to busbars does not require drilling.	20x5/10 25x5/10 30x5/10	A cable block is used to connect the conductor to the busbar	AKS185	107195	6

VT13406

600	95 - 300 mm², MCM300 - MCM600. directly terminated: ◎ ⊙ ◇	Termination to busbars does not require drilling.	20x5/10 25x5/10 30x5/10	A cable block is used to connect the conductor to the busbar	AKS300	107196	6

VT13206

800	▤ 3x20x1 to 2x(10x32x1) ■ 32x25	Termination to busbars does not require drilling. Terminal compartment 32 x 25 mm.	20x5/10 25x5/10 30x5/10	A contact block is used to connect the conductor to the busbar	AKS copper strip	107197	3

[1] ◯ Solid round conductors
◎ Flexible round conductors with correctly crimped ferrule
⊙ Stranded round conductors
◇ Sector conductors, solid
◇ Sector conductors, stranded
▤ Copper strip
■ Copper bar

	Max. rated operational current I_e (A)	Conductor type[1]	Special features	Usage	Notes	Type name	Article no.	Units per package
Universal conductor connection terminal (5 mm), 60-mm system								
VT18406	180	1.5 - 16 mm², AWG14 - AWG6. directly terminated: ⊛ ○ ⊛ ▤ 8x6x0.5	With integrated retaining spring, captive terminal screw, open terminal compartment 7.5 x 7.5 mm	All flat busbars with a thickness of 5 mm	–	AKU16/5	107187	100
VT18306	270	4 - 35 mm², AWG10 - AWG2. directly terminated: ⊛ ○ ⊛ ▤ 3x9x0.8 or 6x9x0.8	With integrated retaining spring, captive terminal screw, open terminal compartment 10.5 x 11 mm	All flat busbars with a thickness of 5 mm	–	AKU35/5	107188	50
VT18206	400	16 - 70 mm², AWG4 - AWG2/0. directly terminated: ⊛ ⊛ ▤ 2x(3x9x0.8) or 6x9x0.8	With integrated retaining spring, captive terminal screw, open terminal compartment 14 x 14 mm	All flat busbars with a thickness of 5 mm	–	AKU70/5	107189	25
VT18106	440	16 - 120 mm², AWG4 - MCM250. directly terminated: ⊛ ⊛ ▤ 4x16x0.8 or 6x16x0.8 or 10x16x0.8	With integrated retaining spring, captive terminal screw, open terminal compartment 17 x 15 mm	All flat busbars with 5 mm thickness	–	AKU120/5	107190	25

[1] ○ Solid round conductors
⊛ Flexible round conductors with correctly crimped ferrule
⊛ Stranded round conductors
◇ Sector conductors, solid
◈ Sector conductors, stranded
▤ Copper strip
■ Copper bar

	Max. rated operational current I_e (A)	Conductor type[1]	Special features	Usage	Notes	Type name	Article no.	Units per package
Universal conductor connection terminal (10 mm), 60-mm system								
VT13806	180	1.5 - 16 mm², AWG14 - AWG6. directly terminated: ⊛ ○ ⊛ ▤ 8x6x0.5	With integrated retaining spring, captive terminal screw, open terminal compartment 7.5 x 7.5 mm	All flat busbars with a thickness of 10 mm	–	AKU16/10	107191	100
VT13706	270	4 - 35 mm², AWG4 - AWG2/0. directly terminated: ⊛ ○ ⊛ ▤ 3x9x0.8 or 6x9x0.8	With integrated retaining spring, captive terminal screw, open terminal compartment 10.5 x 11 mm	All flat busbars with a thickness of 10 mm	–	AKU35/10	107192	50
VT13606	400	16 - 70 mm², AWG4 - AWG2/0. directly terminated: ⊛ ⊛ ▤ 2x(3x9x0.8) or 6x9x0.8	With integrated retaining spring, captive terminal screw, open terminal compartment 14 x 14 mm	All flat busbars with a thickness of 10 mm	–	AKU70/10	107193	25
VT13506	440	16 - 120 mm², AWG4 - MCM250. directly terminated: ⊛ ⊛ ▤ 4x16x0.8 or 6x16x0.8 or 10x16x0.8	With integrated retaining spring, captive terminal screw, open terminal compartment 17 x 15 mm	All flat busbars with a thickness of 10 mm	–	AKU120/10	107194	25
01063451_0	490	Cable lugs M8	With integrated retaining spring, captive terminal screw, open terminal compartment M8x8 stud	All flat busbars with a thickness of 10 mm, 'I' section	–	AKU-M8/10	138362	20
01063458_0	630	Cable lugs M10	With integrated retaining spring, captive terminal screw, open terminal compartment M10x10 stud	All flat busbars with a thickness of 10 mm, 'I' section	–	AKU-M10/10	138361	6

1) ○ Solid round conductors
⊛ Flexible round conductors with correctly crimped ferrule
⊛ Stranded round conductors
◇ Sector conductors, solid
◈ Sector conductors, stranded
▤ Copper strip
■ Copper bar

Busbar links, 50 mm system

- Includes fasteners

VT66113

Rated operational current I_e A	Features	Type name	Article no.	Units per package
250-630	L1, L2, L3, PE, N	SVS250630-5	002066	1
1000	L1, L2, L3 for copper busbars 2 x 30 x 10 mm	AVS30L	093842	3
500	PE, N, PEN for copper busbars 30 x 10 mm	AVS30PEN	096215	2
1600	L1, L2, L3 for copper busbars 3 x 40 x 10 mm	AVS40	098588	3

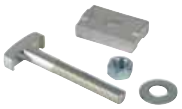
Busbar terminals; for connecting flat or round conductors, 50 mm system

VT68913

Can be used with busbars mm	Terminal capacity of flat conductors mm	Rated operational current of flat conductors I_e A	Terminal capacity of round conductors[1] mm²	Type name	Article no.	Units per package
Cu 12 x 5	3 x 9 x 0.8	100	⁘ 16-35 ⁙ 16-25	K12X5-1	002281	10
Cu 12 x 5	3 x 9 x 0.8 10 x 16 x 0.8	100 400	⁘ 25-120 ⁙ 25-95	K12X5-2	002282	10
Cu 20 x 5	3 x 9 x 0.8 6 x 9 x 0.8 4 x 16 x 0.8 6 x 16 x 0.8	100 160 200 250	⁘ 35-70 ⁙ 35-50	K20X5	002286	10
Cu 20 x 5	3 x 9 x 0.8 6 x 9 x 0.8 4 x 16 x 0.8 6 x 16 x 0.8 10 x 16 x 0.8 11 x 21 x 1	100 160 200 250 400 630	⁘ 35-240 ⁙ 35-185	K20X10	002283	10
Cu 20 x 10	3 x 9 x 0.8 6 x 9 x 0.8 4 x 16 x 0.8 6 x 16 x 0.8 10 x 16 x 0.8 11 x 21 x 1	100 160 200 250 400 630	⁘ 35-185 ⁙ 35-95	K20X10	002283	10
Cu 20 x 15	3 x 9 x 0.8 6 x 9 x 0.8 4 x 16 x 0.8 6 x 16 x 0.8 10 x 16 x 0.8 11 x 21 x 1	100 160 200 250 400 630	⁘ 35-70 ⁙ 35-50	K20X10	002283	10
Cu 20 x 10 - 15 Cu 20 x 5 - 15	3 x 9 x 0.8 11 x 21 x 1	100 630	⁘ 35-300 ⁙ 35-240	K20X15	002284	10

[1] ⁙ Flexible with correctly crimped ferrule
⁘ Stranded

Terminal for flat conductors and copper bars, 50 mm system

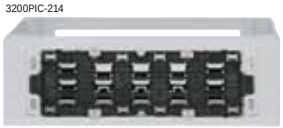
	Can be used with copper bars mm	Terminal capacity of flat conductors mm	Rated operational current of flat conductors I_e A	Notes	Type name	Article no.	Units per package
VT67313 	Cu 2 x 30 x 10	2 x 50 x 12	–	for main cables L1, L2, L3	K30X10L	081977	3
	Cu 1 x 30 x 10	50 x 12	–	ffor protective or neutral conductors PE, N, PEN	K30X10PEN	084350	2
	Cu 3 x 40 x 10	2 x 50 x 12	–	for main cables L1, L2, L3	K40X10	086723	3
VT67213	Cu 1 x 30 x 10	3 x 9 x 0.8 - 11 x 21 x 1	100 630	in conjunction with the K20X5, K20X10 and K20X15 busbar terminals	AW3040L-K20	089096	5
	Cu 2 x 30 x 10 Cu 2 x 40 x 10	3 x 9 x 0.8 - 11 x 21 x 1	100 630	in conjunction with the K20X5, K20X10 and K20X15 busbar terminals	AW30PEN-K20	091469	5

Ultra-slim busbar terminals, for connecting flat conductors

	Can be used with busbars mm	Terminal capacity of flat conductors mm	Rated operational current of flat conductors I_e A	Terminal capacity of round conductors[1] mm²	Type name	Article no.	Units per package
3200PIC-254	Cu 12 x 5	3 x 9 x 0.8 6 x 9 x 0.8 4 x 16 x 0.8 6 x 16 x 0.8	100 160 200 250	◯ 1.5-10 ⁘ 1.5-6	K12X5/25	002324	10
	Cu 20 x 5	3 x 9 x 0.8 6 x 9 x 0.8 4 x 16 x 0.8 6 x 16 x 0.8	100 160 200 250	◯ 1.5-10 ⁘ 1.5-6	K20X5/25	002327	10
	Cu 20 x 5 Cu 20 x 10	3 x 9 x 0.8 6 x 9 x 0.8 4 x 16 x 0.8 6 x 16 x 0.8 10 x 16 x 0.8	100 160 200 250 400	◯ 1.5-10 ⁘ 1.5-6	K20X10/35	002325	10
	Cu 20 x 5 Cu 20 x 10	3 x 9 x 0.8 6 x 9 x 0.8 4 x 16 x 0.8 6 x 16 x 0.8 10 x 16 x 0.8	100 160 200 250 400	◯ 1.5-10 ⁘ 1.5-6	K20X15/40	002285	10
	Cu 20 x 10 Cu 20 x 15	3 x 9 x 0.8 6 x 9 x 0.8 4 x 16 x 0.8 6 x 16 x 0.8 10 x 16 x 0.8 11 x 21 x 1	100 160 200 250 400 630	◯ 1.5-10 ⁘ 1.5-6	K20X15/40	002285	10
	Cu 20 x 15	11 x 21 x 1 2 x (11 x 21 x 1)	630 800	◯ 1.5-10 ⁘ 1.5-6	K20X15/50	002326	10

[1] ◯ Solid round conductors
⁘ Flexible round conductors with correctly crimped ferrule

	Can be used with busbars mm	Terminal capacity of round conductors[1] mm²	Type name	Article no.	Units per package
Terminal expansions for ultra-flat busbar terminals					
Expansion terminals for strap					
VT07108	Cu 10 x 3	◯ ⁘ 1.5-16 ⁘ 0.75-16	AK16	079336	50
VT07108	Cu 10 x 3	◯ 6-16 ⁘ 6-25 ⁘ 4-25	AK35	079614	50
Strap for taking AK… expansion terminal • In conjunction with the K... busbar terminals					
VT07108	–	–	L-KL-R	079269	50

	Rated operational current I_e A	For use with	Type name	Article no.	Units per package
Busbar supports, 50 mm system For use between two enclosures • Component mounting possible on busbar • Clearance between busbar supports max. 375 mm					
Interval between busbar centers: 40 mm					
VT65613	160	L1, L2, L3, PE, N: 12 x 5	SH0165/2	010774	5
Interval between busbar centers: 50 mm					
3200PIC-215	250 400 630	L1, L2, L3, PE, N: 20 x 5 L1, L2, L3: 20 x 10; PE, N, PEN: 20 x 5 L1, L2, L3, PE, N: 20 x 15	SH0635/3	058247	5
3200PIC-214 	250 400 630	L1, L2, L3, PE, N, PEN: 20 x 5 L1, L2, L3: 20 x 10; PE, N, PEN: 20 x 5 L1, L2, L3: 20 x 10 + 20 x 5; PE, N, PEN: 20x10	SH0635/4	060620	10
3200PIC-404	1000	L1, L2, L3: 2 x 30 x 10; PE, N: 30 x 10	SH1005/4	062993	5
3200PIC-405	1600	L1, L2, L3: 3 x 40 x 10	SH1603/4	065366	5

[1] ◯ Solid round conductors
⁘ Flexible round conductors with correctly crimped ferrule
⁘ Stranded round conductors

Busbars

	Max. rated operational current I_e A	Dimensions mm x mm	Length mm	Copper factor	Version	for use with	Type name	Article no.	Units per package
wa_vt00408	160	12 x 5	1500	0.81	tinned	SH0165/2	CU12X5	034121	10
			2250	1.21	tinned	SH0165/2	CU12X5-2250	005093	10
	250	20 x 5	1500	1.34	tinned	SH0635/3	CU20X5	044092	10
			2250	2.01	tinned	SH0635/4 SH0632	CU20X5-2250	007466	10
	400	20 x 10	1500	2.68	tinned	SH0635/3	CU20X10	041719	5
			2250	4.01	tinned	SH0635/4 SH0632	CU20X10-2250	009839	5
wa_vt00308	–	30 x 10	1500	4.02	untreated	SH1005/4	CU30X10	051211	1
		40 x 10	1500	5.34	untreated	SH1603/4	CU40X10	063076	3

PE/N busbar supports

- For relocating PE/N bars from the busbar enclosure to the terminal compartment (for floor-mounted distribution boards)

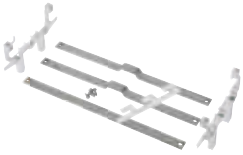
	Max. rated operational current I_e A	Dimensions mm x mm	Type name	Article no.	Units per package
3200PIC-268	250 400 630	20 x 5 20 x 10 20 x 15	SH0632	067739	5

Support bracket for busbar supports, 50 mm system

- For securing the busbar supports in the first and last enclosures when using busbar links and transport splits

	For use with	Type name	Article no.	Units per package
3200PIC-268	SH0635/3 SH0635/4 SH1005/4 SH1603/4	HSH-CI	002320	5
VT66513	SH0632	HSH0632	002321	5

Notes How to select the busbar cross-section and the device to be used ➔ Page xx

	For use with	Type name	Article no.	Units per package
	Busbar bracing, 50 mm system			
	• For mounting between two SH0635/... busbar supports when fitting the RS...3-50 busbar mounting fuses on 20 x 5 copper busbars			
VT66613		SVCU20X5	002323	10
	Busbar assemblies, 50 mm system			
	• For surface mounting of busbar-mounting fuse bases • 3 pole, for 250 A rated operational current • Assembly kit, page 81			
VT63013 	CI23	SE-RS-I23	041632	1
	Ci43	SE-RS-I43	044005	1
	CI44	SE-RS-I44	001890	1
	Connecting terminals, 50 mm system			
	• For use with fuse enclosures and busbar fuse enclosures as well as the SE-RS-I43 busbar assemblies • Terminal capacity of the flat conductor: from 3 x 9 x 0.8 mm to 10 x 16 x 0.8 mm, Ø 4 -10 mm^2 (solid)			
VT06908	CU20X5 CU20X10 CU20X15	K20X15/40-A	012783	10

N bars

VT64313

Connection cross section solid mm²	stranded mm²	For use with	Type name	Article no.	Units per package
2 x 2.5 - 35 6 x 1.5 - 16	2 x 2.5 - 25 6 x 1.5 - 16	SE-RS-I23 (RS18/I23)	N23RS18	055870	1
2 x 2.5 - 35 9 x 0.5 - 6	2 x 2.5 - 25 9 x 0.5 - 4	SE-RS-I23 (RS27/I23)	N23RS27	058243	1
2 x 2.5 - 35 2 x 1.5 - 16	2 x 2.5 - 25 2 x 1.5 - 16	SE-RS-I23 (RS33/I23)	N23RS33	060616	1
2 x 2.5 - 35 12 x 1.5 - 16	2 x 2.5 - 25 12 x 1.5 - 16	SE-RS-I43 (I44) RS18/I43 (I44)	N43RS18	067735	1
2 x 2.5 - 35 18 x 0.5 - 6	2 x 2.5 - 25 18 x 0.5 - 4	SE-RS-I43 (I44) RS27/I43 (I44)	N43RS27	065362	1
2 x 2.5 - 35 4 x 1.5 - 16	2 x 2.5 - 25 4 x 1.5 - 16	SE-RS-I43 (I44) RS33/I43 (I44)	N43RS33	062989	1

PE (PEN) busbars

VT64213

Connection cross section solid mm²	stranded mm²	For use with	Type name	Article no.	Units per package
2 x 2.5 - 35 6 x 1.5 - 16	2 x 2.5 - 25 6 x 1.5 - 16	SE-RS-I23 (RS18/I23)	PEN23RS18	081973	1
2 x 2.5 - 35 9 x 0.5 - 6	2 x 2.5 - 25 9 x 0.5 - 4	SE-RS-I23 (RS27/I23)	PEN23RS27	079600	1
2 x 2.5 - 35 2 x 1.5 - 16	2 x 2.5 - 25 2 x 1.5 - 16	SE-RS-I23 (RS33/I23)	PEN23RS33	077227	1
2 x 2.5 - 35 12 x 1.5 - 16	2 x 2.5 - 25 12 x 1.5 - 16	SE-RS-I43 (I44) RS18/I43 (I44)	PEN43RS18	070108	1
2 x 2.5 - 35 18 x 0.5 - 6	2 x 2.5 - 25 18 x 0.5 - 4	SE-RS-I43 (I44) RS27/I43 (I44)	PEN43RS27	072481	1
2 x 2.5 - 35 4 x 1.5 - 16	2 x 2.5 - 25 4 x 1.5 - 16	SE-RS-I43 (I44) RS33/I43 (I44)	PEN43RS33	074854	1

Pre-assembled enclosures, panel enclosures for fuses, 60 mm system

- IP65 degree of protection
- Sides closed, with full area knockout, open at top and bottom
- Integrated pressure-relief mechanism in the event of a short-circuit
- CI44-200 or CI43-200 basic enclosures
- Transparent cover, optional quick-release fastener
- Sealable cover fasteners
- With 3-pole busbar-mounting fuse bases or switch-disconnectors
- Switchgear without adapter sleeves and fuse links
- Distance between busbar centers: 60 mm
- Untreated copper, with integrated add-on function
- 3-pole system, copper for N/PE can be retrofitted
- Includes busbar supports for N/PE

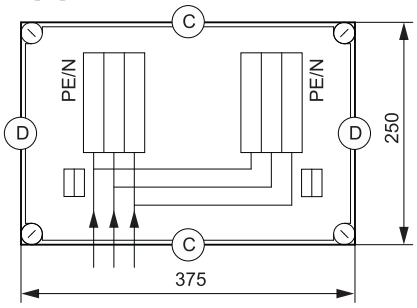
Dimensions mm	Max. rated optional current of busbar I_e A	Features	Number of circuits max. Fuse link A/V	Type name	Article no.	Units per package
wa_vt02619 	250	L1, L2, L3: CU20x5 N can be retrofitted with CU20x5 PE can be retrofitted with CU12x5	Screw base 8 x 3 pole 50 A / 400 V E18 / D02	CI44-S60-250/3-8D02	194597	1
	400	L1, L2, L3: CU20x10 N can be retrofitted with CU20x10 PE can be retrofitted with CU20x5	Screw base 8 x 3 pole 50 A / 400 V E18 / D02	CI44-S60-400/3-8D02	194598	1
	630	L1, L2, L3: CU30x10 N can be retrofitted with CU30x10 PE can be retrofitted with CU30x5	Screw base 8 x 3 pole 50 A / 400 V E18 / D02	CI44-S60-630/3-8D02	194599	1
wa_vt02719 	250	L1, L2, L3: CU20x5 N can be retrofitted with CU20x5 PE can be retrofitted with CU12x5	Switch-disconnectors 8 x 3 pole 50 A / 400 V E18 / D02	CI44-S60-250/3-8D02-LTS	194600	1
	400	L1, L2, L3: CU20x10 N can be retrofitted with CU20x10 PE can be retrofitted with CU20x5	Switch-disconnectors 8 x 3 pole 50 A / 400 V E18 / D02	CI44-S60-400/3-8D02-LTS	194601	1
	630	L1, L2, L3: CU30x10 N can be retrofitted with CU30x10 PE can be retrofitted with CU30x5	Switch-disconnectors 8 x 3 pole 50 A / 400 V E18 / D02	CI44-S60-630/3-8D02-LTS	194602	1
	250	L1, L2, L3: CU20x5 N can be retrofitted with CU20x5 PE can be retrofitted with CU12x5	Screw base 8 x 3 pole 50 A / 400 V E18 / D02	CI43-S60-250/3-4D02	194603	1
	400	L1, L2, L3: CU20x10 N can be retrofitted with CU20x10 PE can be retrofitted with CU20x5	Screw base 8 x 3 pole 50 A / 400 V E18 / D02	CI43-S60-400/3-4D02	194604	1
	630	L1, L2, L3: CU30x10 N can be retrofitted with CU30x10 PE can be retrofitted with CU30x5	Screw base 8 x 3 pole 50 A / 400 V E18 / D02	CI43-S60-630/3-4D02	194605	1

Pre-assembled enclosures, two-way fuse boxes

- With parallel link between the incoming sides
- Input wiring max. 35 mm^2
- Fuse-link, max. 63 A

Dimensions mm	Rated operational current I_e A	Rated operational voltage U_e V AC	Fuse link size	Type name	Article no.	Units per package
wa_vt00819	2 x 100	690	NH00	2GS00/I43E-V2K	046379	1

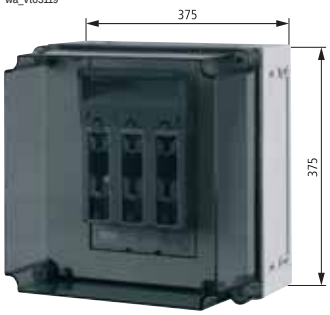
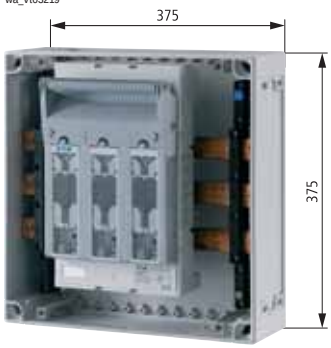
2GS00_I43E_V2K



Pre-assembled enclosures, XNH panel enclosures, 60 mm system

- IP65 degree of protection
- Sides closed, with full area knockout, open at top and bottom
- Integrated pressure-relief mechanism in the event of a short-circuit
- CI44-200 or CI43-200 basic enclosures
- Transparent cover
- Sealable cover fasteners
- With 3-pole XNH fuse switch-disconnectors
- Switchgear without fuse links
- Distance between busbar centers: 60 mm
- Untreated copper, with integrated grouping function
- 3-pole system, copper for N/PE can be retrofitted
- Includes busbar supports for N/PE

Dimensions mm	Max. rated operational current of busbar I_e A	Features copper/busbar supports	Number of circuits max. Fuse link A/V	Type name	Article no.	Units per package
wa_vt02819	250	L1, L2, L3: CU20x5 N can be retrofitted with CU20x5 PE can be retrofitted with CU12x5	1 x 3 pole 125 A / 690 V NH00	CI44-S60-250/3-1XNH00	194568	1
		L1, L2, L3: CU20x5 N can be retrofitted with CU20x5 PE can be retrofitted with CU12x5	2 x 3 pole 125 A / 690 V NH00	CI44-S60-250/3-2XNH00	194569	1
		L1, L2, L3: CU20x5 N can be retrofitted with CU20x5 PE can be retrofitted with CU12x5	3 x 3 pole 125 A / 690 V NH00	CI44-S60-250/3-3XNH00	194570	1
wa_vt02919	400	L1, L2, L3: CU20x10 N can be retrofitted with CU20x10 PE can be retrofitted with CU20x5	1 x 3 pole 125 A / 690 V NH00	CI44-S60-400/3-1XNH00	194571	1
		L1, L2, L3: CU20x10 N can be retrofitted with CU20x10 PE can be retrofitted with CU20x5	2 x 3 pole 125 A / 690 V NH00	CI44-S60-400/3-2XNH00	194572	1
		L1, L2, L3: CU20x10 N can be retrofitted with CU20x10 PE can be retrofitted with CU20x5	3 x 3 pole 125 A / 690 V NH00	CI44-S60-400/3-3XNH00	194573	1
wa_vt03019	630	L1, L2, L3: CU30x10 N can be retrofitted with CU30x10 PE can be retrofitted with CU30x5	1 x 3 pole 125 A / 690 V NH00	CI44-S60-630/3-1XNH00	194574	1
		L1, L2, L3: CU30x10 N can be retrofitted with CU30x10 PE can be retrofitted with CU30x5	2 x 3 pole 125 A / 690 V NH00	CI44-S60-630/3-2XNH00	194575	1
		L1, L2, L3: CU30x10 N can be retrofitted with CU30x10 PE can be retrofitted with CU30x5	3 x 3 pole 125 A / 690 V NH00	CI44-S60-630/3-3XNH00	194576	1

Dimensions mm	Max. rated operational current of busbar I_e A	Features copper/busbar supports	Number of circuits max. Fuse link A/V	Type name	Article no.	Units per package
wa_vt03119 	250	L1, L2, L3: CU20x5 N can be retrofitted with CU20x5 PE can be retrofitted with CU12x5	1 x 3 pole 250 A / 690 V NH1	CI44-S60-250/3-1XNH1	194577	1
	400	L1, L2, L3: CU20x10 N can be retrofitted with CU20x10 PE can be retrofitted with CU20x5	1 x 3 pole 250 A / 690 V NH1	CI44-S60-400/3-1XNH1	194578	1
	630	L1, L2, L3: CU30x10 N can be retrofitted with CU30x10 PE can be retrofitted with CU30x5	1 x 3 pole 250 A / 690 V NH1	CI44-S60-630/3-1XNH1	194579	1
wa_vt03219 	400	L1, L2, L3: CU20x10 N can be retrofitted with CU20x10 PE can be retrofitted with CU20x5	1 x 3 pole 315 A / 690 V NH2	CI44-S60-400/3-1XNH2	194581	1
	630	L1, L2, L3: CU30x10 N can be retrofitted with CU20x10 PE can be retrofitted with CU20x5	1 x 3 pole 315 A / 690 V NH2	CI44-S60-630/3-1XNH2	194582	1
	250	L1, L2, L3: CU20x5 N can be retrofitted with CU20x5 PE can be retrofitted with CU12x5	1 x 3 pole 125 A / 690 V NH00	CI43-S60-250/3-1XNH00	194583	1
	400	L1, L2, L3: CU20x10 N can be retrofitted with CU20x10 PE can be retrofitted with CU20x5	1 x 3 pole 125 A / 690 V NH00	CI43-S60-400/3-1XNH00	194584	1
	630	L1, L2, L3: CU30x10 N can be retrofitted with CU30x10 PE can be retrofitted with CU30x5	1 x 3 pole 125 A / 690 V NH00	CI43-S60-630/3-1XNH00	194585	1

Protective shrouds, 60 mm system

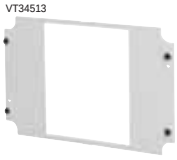
- The AH-GA set of supporting brackets must be ordered separately
- The BS-S60-CI/EP blanking strip must be ordered separately

	For use with	Max. number of permissible devices	Type name	Article no.	Units per package
vt21718	CI44...	8 x D02-SO/63/3-R-27 8 x D02-LTS/63/3-S60 3 x XNH00-S160-BT1	GA-44-S60-XNH00/D02	194586	1
	CI44...	1x XNH1-S250-BT	GA-44-S60-XNH1	194587	1
	CI44...	1x XNH2-S400-BT	GA-44-S60-XNH2	194588	1
	CI43..., rotated	4x D02-SO/63/3-R-27 4x D02-LTS/63/3-S60 1x XNH00-S160-BT1	GA-43-S60-XNH00/D02	194589	1

Blanking strip, 60 mm system

- To blank off unused spaces
- 198 x 56 mm
- RAL 7035
- Detachable in increments of 9 mm

	For use with	Width mm	Type name	Article no.	Units per package
vt00219	GA-44-S60-... GA-43-S60-...	56	BS-S60-CI/EP	194590	10

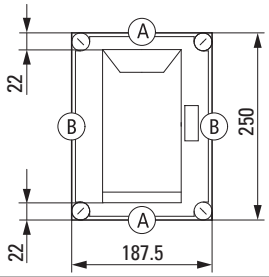
	For use with	Permissible devices	Type name	Article no.	Units per package
	Protective shrouds, 50 mm system				
	• The AH-GA set of support brackets must be ordered separately → Page 43				
VT34413	CI23...	RS...3-50 busbar mounting fuse base	GA-RS-I23	046378	1
	CI43...	RS...3-50 busbar mounting fuse base fuse switch-disconnectors GSTA00(-160)-40-60-AOU	GA-RS-I43	048751	1
VT34513 	CI43...	RS...3-50 busbar mounting fuse base fuse switch-disconnectors GSTA00(-160)-40-60-AOU	GA-RS-I43-G	017907	1
	CI44...	RS...3-50 busbar mounting fuse base fuse switch-disconnectors GSTA00(-160)-40-60-AOU	GA-RS-I44	022653	2
VT29613	CI43...	RS...3-50 busbar mounting fuse base GSTA1 fuse switch-disconnectors, with A-GSTA1 adapter plate	GA-1-I43-G	020280	4
	CI44...	GSTA1 fuse switch-disconnector, with A-GSTA1/... adapter plate	GA-1-I44	025026	2
	CI44...	GSTA2 fuse switch-disconnector, with A-GSTA2/... adapter plate	GA-2-I44	027399	4

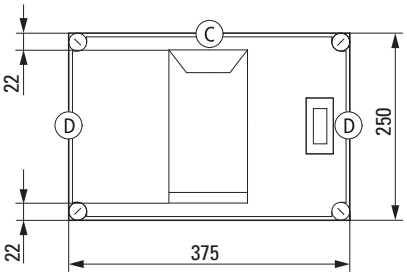
	For use with	Type name	Article no.	Units per package
	Blanking strip, 50 mm system			
	• To blank off unused spaces			
VT64513	GA-RS-I43 GA-RS-I44	AS-RS-CI	002304	10
	Insulating surrounds for fuse switch disconnectors, 50 mm system			
	• To compensate between the GA... protective shroud and the device (for use with the Ci insulated distribution board system)			
VT64513	GST00	B-GST00-40-60/CI/1	224553	5
	Connection kit, 50 mm system			
	• For connecting the busbars of RS.../I23E, RS.../I43E, RS.../I44E, 250 A for L1, L2, L3 • Each set contains 3 links			
VT67113	RS.../I23E RS.../I43E RS.../I44E	VBS-RS	002307	5

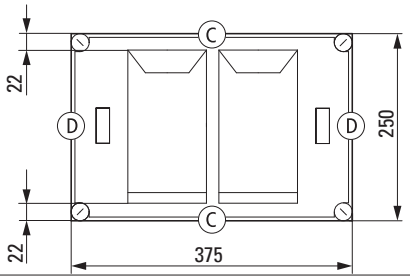
Pre-assembled enclosures, individual enclosures with NH fuse switch-disconnectors

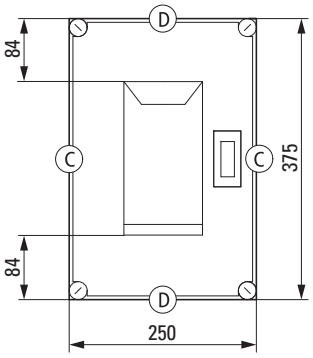
- Metric cable entry knockouts in all sides
- IP65 degree of protection
- Integrated pressure-relief mechanism in the event of a short-circuit
- Transparent cover
- Terminal for connecting the 4th conductor (PEN)
- Fuse switch-disconnector fitted to sheet steel mounting plate
- Fixing straps for wall mounting
- Sealable cover fasteners

	Dimensions mm	Rated operational current I_e A	Rated operational voltage U_e V AC	Fuse link Size	Terminal for the 5th conductor can be retrofitted (N conductor)	Enclosure depth mm	Type name	Article no.	Units per package
wa_vt06816	4600DRW-165	155	690	NH00	K50/1	150	XNH00-CI23E	184460	1
wa_vt06916	4600DRW-166	160	690	NH00	K95/1N/BR	150	XNH00-CI43E	184457	1
wa_vt06616	4600DRW-167	2 x 150	690	NH00	K50/1	150	XNH00-2X-CI43E	184456	1
wa_vt07016	4600DRW-168	160	690	NH00	K95/1N/BR	150	XNH00-CI43E-G	184458	1







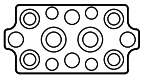


Notes

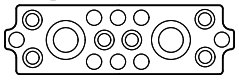
A B C D

00062217_0

00062220_0



00062223_0



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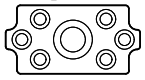
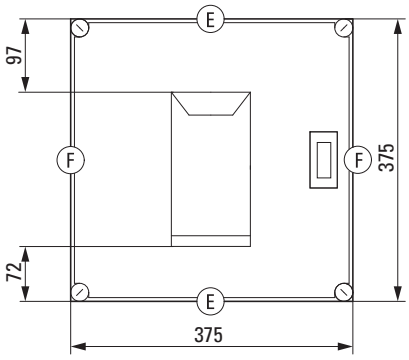
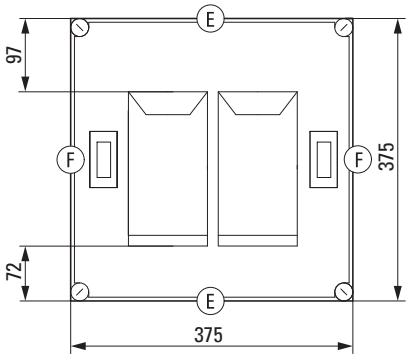
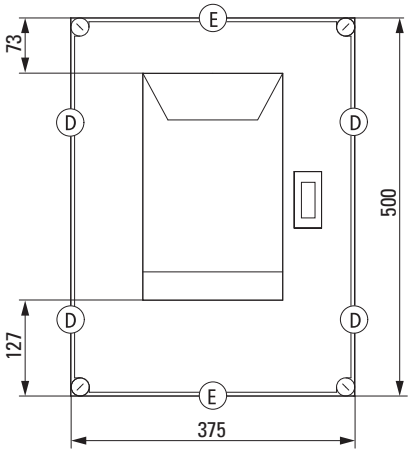


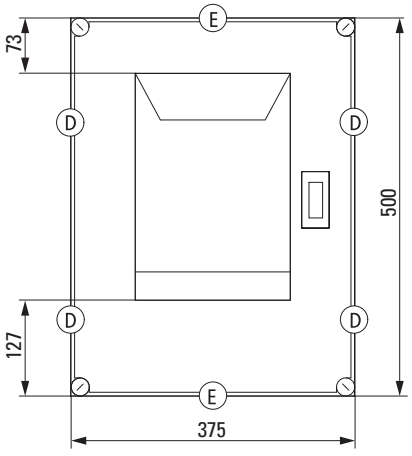
1 x M32/20 2 x M32/20 2 x M50/20 1 x M50/32
6 x M20 4 x M25/16 6 x M25/16 6 x M25/16
2 x M16 4 x M20, 4 x M16 8 x M20

	Dimensions mm	Rated operational current I_e A	Rated operational voltage U_e V AC	Fuse link Size	Terminal for the 5th conductor can be retrofitted (N conductor)	Enclosure depth mm	Type name	Article no.	Units per package
wa_vt07116	4600DRW-169	160	690	NH00	K95/1N/BR	150	XNH00-CI44E	184459	1
wa_vt06716	4600DRW-170	2 x 150	690	NH00	K95/1N/BR	150	XNH00-2X-CI44E	184455	1
wa_vt07216	4600DRW-171	250	690	NH1	K150/1	225	XNH1-CI45E	184461	1
wa_vt07316	4600DRW-172	390	690	NH2	K240/1	225	XNH2-CI45E	184462	1



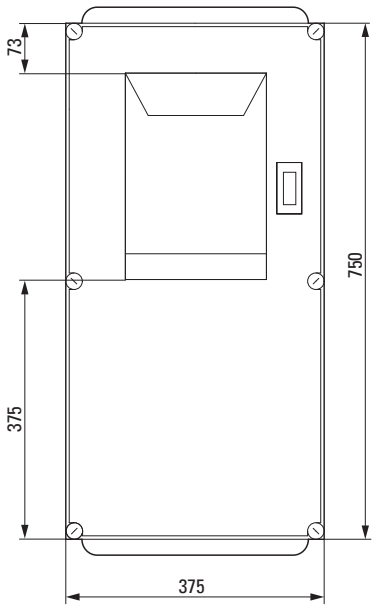




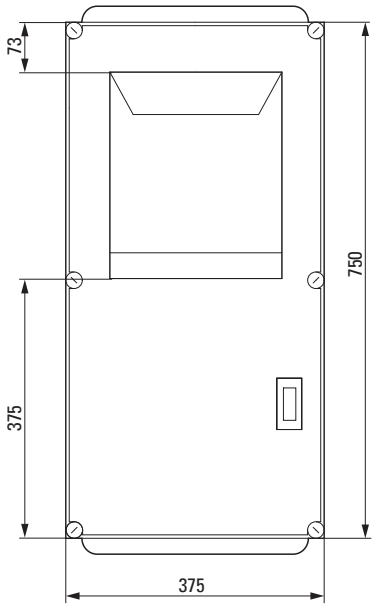


• Sides closed, with full area knockout, top and bottom closed with FL4-X gland plates

	Dimensions mm	Rated operational current I_e A	Rated operational voltage U_e V AC	Fuse link Size	Terminal for the 5th conductor can be retrofitted (N conductor)	Enclosure depth mm	Type name	Article no.	Units per package
wa_vt07416	4600DRW-173	390	690	NH2	K240/1	225	XNH2-CI48E	184463	1



wa_vt07516	4600DRW-174	550	690	NH3	K2X240/1	275	XNH3-CI48E	184464	1



Notes

D E F

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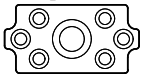

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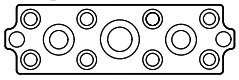
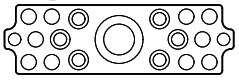


00062229_0



1 x M50/32 1 x M50/32, 2 x M40/25 1 x M63/40, 6 x M25/16
6 x M25/16 8 x M25/16, 2 x M20 10 x M20, 2 x M16

For use with	125 mm increments number	Section length mm	Type name	Article no.	Units per package

Sections for mounting frames

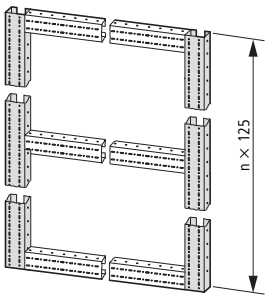
- Galvanized 'C' sections
- Fixing screws must be ordered separately

For wall-mounted distribution boards

Vertical sections (outside)

VT62313

00063549_0

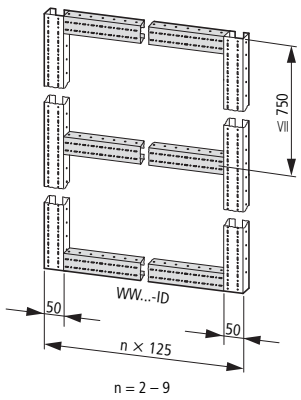


6 x 125	750	WS6-ID	098594	1
7 x 125	875	WS7-ID	010794	1
8 x 125	1000	WS8-ID	013167	1
9 x 125	1125	WS9-ID	015540	1
10 x 125	1250	WS10-ID	017913	1
11 x 125	1375	WS11-ID	020286	1
12 x 125	1500	WS12-ID	022659	5
13 x 125	1625	WS13-ID	025032	1
14 x 125	1750	WS14-ID	027405	1
15 x 125	1875	WS15-ID	029778	1

Horizontal sections

3200PIC-408

00064455_0



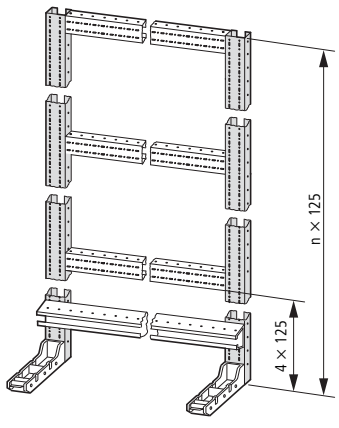
2 x 125	150	WW2-ID	041643	5
3 x 125	275	WW3-ID	044016	5
4 x 125	400	WW4-ID	046389	5
5 x 125	525	WW5-ID	048762	5
6 x 125	650	WW6-ID	051135	1
7 x 125	775	WW7-ID	053508	5
8 x 125	900	WW8-ID	055881	1
9 x 125	1025	WW9-ID	058254	1

For wall-mounted distribution boards supported on the floor

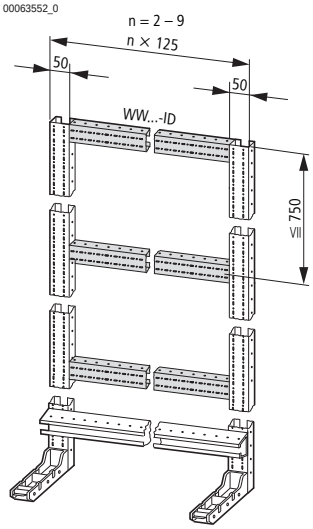
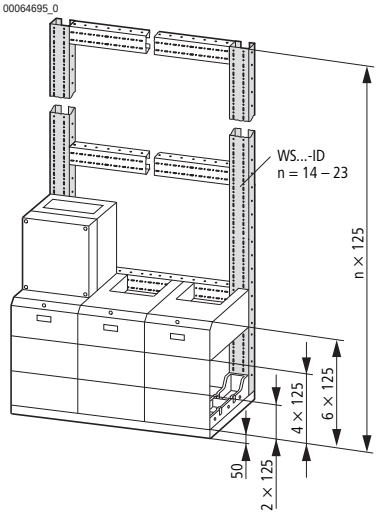
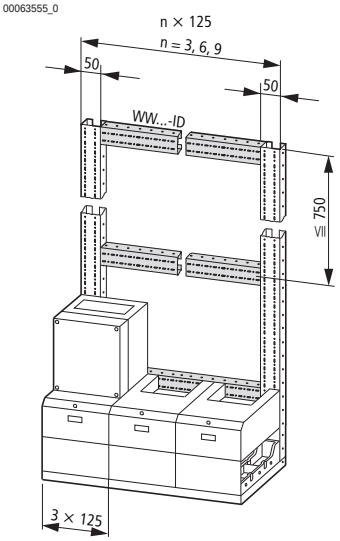
Vertical sections (outside)

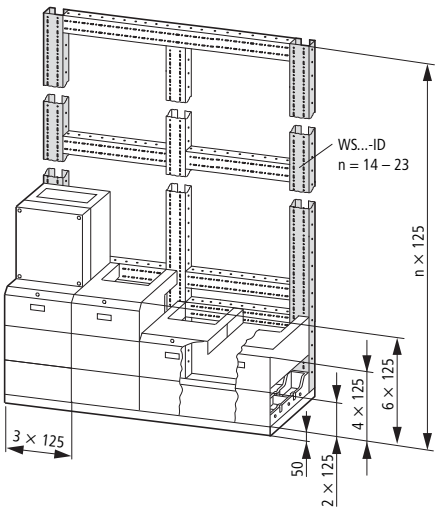
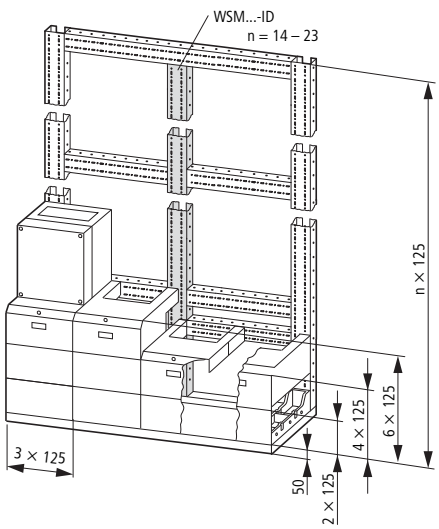
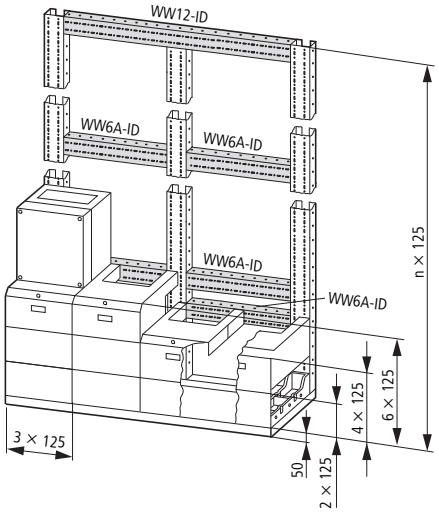
VT62313

00070950_0



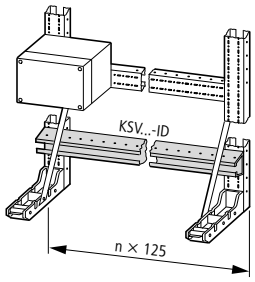
10 x 125	1250	WS10-ID	017913	1
11 x 125	1375	WS11-ID	020286	1
12 x 125	1500	WS12-ID	022659	5
13 x 125	1625	WS13-ID	025032	1
14 x 125	1750	WS14-ID	027405	1
15 x 125	1875	WS15-ID	029778	1
16 x 125	2000	WS16-ID	032151	1
17 x 125	2125	WS17-ID	034524	1
18 x 125	2250	WS18-ID	036897	1
19 x 125	2375	WS19-ID	039270	1

For use with	125 mm increments number	Section length mm	Type name	Article no.	Units per package
For wall-mounted distribution boards supported on the floor					
Horizontal sections					
3200PIC-408 00063552_0 	2 x 125	150	WW2-ID	041643	5
	3 x 125	275	WW3-ID	044016	5
	4 x 125	400	WW4-ID	046389	5
	5 x 125	525	WW5-ID	048762	5
	6 x 125	650	WW6-ID	051135	1
	7 x 125	775	WW7-ID	053508	5
	8 x 125	900	WW8-ID	055881	1
	9 x 125	1025	WW9-ID	058254	1
For floor-mounted distribution boards with a width of 3 sections					
Vertical sections (outside)					
VT62313 00064695_0 	14 x 125	1750	WS14-ID	027405	1
	15 x 125	1875	WS15-ID	029778	1
	16 x 125	2000	WS16-ID	032151	1
	17 x 125	2125	WS17-ID	034524	1
	18 x 125	2250	WS18-ID	036897	1
	19 x 125	2375	WS19-ID	039270	1
	20 x 125	2500	WS20-ID	034525	1
	21 x 125	2625	WS21-ID	036898	5
	22 x 125	2750	WS22-ID	039271	5
	23 x 125	2875	WS23-ID	041644	1
Horizontal sections					
3200PIC-408 00063555_0 	3 x 125	275	WW3-ID	044016	5
	6 x 125	650	WW6-ID	051135	1
	9 x 125	1025	WW9-ID	058254	1

For use with		125 mm increments number	Section length mm	Type name	Article no.	Units per package
For floor-mounted distribution boards with a width of 4 sections						
Vertical sections (outside)						
VT62313	00063558_0 	14 x 125	1750	WS14-ID	027405	1
		15 x 125	1875	WS15-ID	029778	1
		16 x 125	2000	WS16-ID	032151	1
		17 x 125	2125	WS17-ID	034524	1
		18 x 125	2250	WS18-ID	036897	1
		19 x 125	2375	WS19-ID	039270	1
		20 x 125	2500	WS20-ID	034525	1
		21 x 125	2625	WS21-ID	036898	5
		22 x 125	2750	WS22-ID	039271	5
		23 x 125	2875	WS23-ID	041644	1
Vertical sections (center)						
VT62313	00063561_0 	14 x 125	1750	WSM14-ID	044017	5
		15 x 125	1875	WSM15-ID	046390	5
		16 x 125	2000	WSM16-ID	048763	5
		17 x 125	2125	WSM17-ID	051136	5
		18 x 125	2250	WSM18-ID	053509	5
		19 x 125	2375	WSM19-ID	055882	5
		20 x 125	2500	WSM20-ID	058255	5
		21 x 125	2625	WSM21-ID	060628	5
		22 x 125	2750	WSM22-ID	063001	5
		23 x 125	2875	WSM23-ID	065374	5
Horizontal sections						
3200PIC-408	00063336_0 	6 x 125	675	WW6A-ID	067747	1
		12 x 125	1400	WW12A-ID	070120	1

Cable anchoring rails

- For T clips

For use with	125 mm increments number	Section length mm	Type name	Article no.	Units per package
vt06218 00063564_0  n = 2 – 9	3 x 125	375	KSV3-CI	193456	1
	6 x 125	750	KSV6-CI	193457	1
	9 x 125	1025	KSV9-CI	193458	1

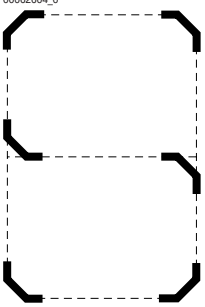
Wall-fixing brackets

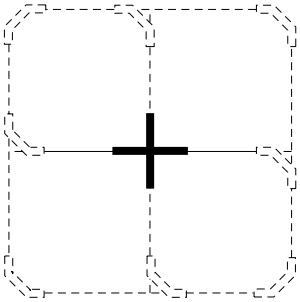
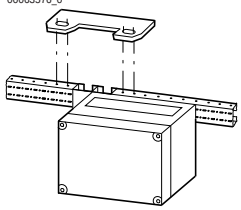
- Includes fasteners
- For both wall-mounted distribution boards and floor-mounted distribution boards

For use with	Type name	Article no.	Units per package
vt06918 To secure the mounting frame at a distance of 100 mm from the wall	WBW12-ID	001925	10
vt06818 To secure the mounting frame at a distance of 25 mm from the wall Floor-mounted distribution board top mount.	WBW25-ID	081983	10
vt06718 To secure the mounting frame at a distance of 100 mm from the wall Floor-mounted distribution board top mount.	WBW100-ID	084356	10

Corner plate for wall-mounted and floor-mounted distribution boards

- For connecting the horizontal and vertical sections
- Includes fasteners

vt07118 00062604_0 			EVB-ID	002299	10

	For use with	Type name	Article no.	Units per package
Cross plates for wall-mounted and floor-mounted distribution boards				
• For connecting the horizontal and vertical sections • Includes fasteners				
vt07018	00063582_0 	KVB-ID	002300	10
Assembly brackets				
• For connecting distribution boards, and for use with transport units • Includes fasteners				
vt07218	Wall-mounted distribution boards top and bottom on the WW... section 2 for wall-mounted distribution boards, 1 for floor-mounted distribution boards 00063576_0 	ARB-ID	002302	10
vt66713	For enclosure assembly at transport splits	VS-TR-CI	002330	25
Lift eye fix, with lift eye kit				
• For fixing eye bolts on the distribution board support frame, M12 thread • One set contains 2 x fasteners and 2 x M12 eyelets				
vt11518	Wall-mounted distribution boards, floor-mounted distribution boards For mounting on the WS... vertical sections	TOB/XAT-CI	193464	1
Fixing screws				
VT11609	For fixing Ci enclosures to the W... wall-mounting brackets and the WS..., WW... sections.	LT284-M6X20-C	050325	100

	For use with	Type name	Article no.	Units per package
	Plinths			
	• For installing floor-mounted distribution boards • RAL 7022 • Sheet steel, welded, galvanized, powder-coated			
461I0960	Width 375 mm	SS5-ID0375	079611	1
	Width 750 mm	SS5-ID0750	081984	1
	Width 1125 mm	SS5-ID1125	084357	1
	Width 1500 mm	SS5-ID1500	086730	1
	Foot			
	• For fixing enclosures to the floor			
VT62513	To left and right of the SS5-ID plinth (for SS5-ID1500 also in the center)	FHF-ID	089103	2
	Support struts			
	• For floor-mounted distribution boards, to support the vertical sections on the floor			
VT58113	Plinth height 50 cm	STR50-ID	072493	1
	Plinth height 75 cm	STR75-ID	074866	1
	Strap			
	• For connecting the distribution boards (and if transport splits are applied)			
vt07318	In the plinth, 1 strap required for plinth heights ≤ 50 cm 2 pieces required for a plinth height of 75 cm	LPS-ID	086731	5
	Foot prop			
	• Support brackets for the front plate (bottom) • 1 per section width			
VT66413	Between the externally fitted FHF-ID feet	SLHF-ID	091476	5
	Support brackets			
	• Support brackets for the top plate • 2 per section width			
VT65713		HDP-ID	093849	5

	For use with	Type name	Article no.	Units per package
	Support brackets			
	• Additional fastening for the HPD-ID support bracket			
vt07418	For SS5-ID0375: None required For SS5-ID0750: 1 piece For SS5-ID1125: 2 pieces For SS5-ID1500: 2 pieces	SWHDP-ID	032152	5
	Top plate			
	• Also serves as support for the front plate (top) • 1 per section width			
VT59713		DP-ID	096222	5
	Cable compartment cladding			
	Front plates			
	• For covering the plinth compartment (cabling compartment) • 1 per section width			
vt19418	Height 750 mm	FP75-ID	013168	2
	Height 500 mm	FP50-ID	010795	4
	Height 250 mm	FP25-ID	098595	4
	Side plates			
	• Cover for external sides • Can be fitted on the left or right			
3200PIC-406	Height 750 mm	SWRL75-ID	020287	1
	Height 500 mm	SWRL50-ID	017914	1
	Height 250 mm	SWRL25-ID	015541	1
	Intermediate plates			
	• Cover between plinths of different heights			
	Right-hand side			
3200PIC-412	Between plinth heights of 750 mm and 250 mm	ZPR50-ID	022660	1
	Between plinth heights of 750 mm and 500 mm, or 500 mm and 250 mm	ZPR25-ID	025033	1

3200PIC-411

For use with	Type name	Article no.	Units per package
Right-hand side			
Between plinth heights of 750 mm and 250 mm	ZPL50-ID	029779	1
Between plinth heights of 750 mm and 500 mm, or 500 mm and 250 mm	ZPL25-ID	027406	1

Ccable entry	Drilling dimensions mm	External cable diameter mm	For use with NYM/NYY cables, 4-core mm²	Type name	Article no.	Units per package

Metric diaphragm grommets

- IP66, with built-in push-through membrane
- PE and thermoplastic elastomer, halogen-free

VT06508

M16	16.5	1-9	H03VV-F 3 x 0.75 mm², NYM 1 x 16 / 3 x 1.5 mm²	KT-M16	216983	100
M20	20.5	1-13	H03VV-F 3 x 0.75 mm², NYM 5 x 1.5 / 5 x 2.5 mm²	KT-M20	207602	100
M25	25.5	1-18	H03VV-F 3 x 0.75 mm², NYM 4 x 10 mm²	KT-M25	207603	100
M32	32.5	1-25	H03VV-F 3 x 0.75 mm², NYM 4 x 16 / 5 x 10 mm²	KT-M32	207604	100

Metric cable glands to EN 50262

- IP68 up to 5 bar, polyamide, halogen-free
- Flammability classification V2 in accordance with UL94
- Color: RAL 7035

Metric cable glands with lock nuts and built-in strain relief

VT05708

M12	12.5	3-7	H03VV-F 3 x 0.75 mm², NYM 1 x 2.5 mm²	V-M12	215078	20
M16	16.5	4-5-10	H03VV-F 3 x 1.5 mm², NYM 1 x 16 / 3 x 1.5 mm²	V-M16	215077	20
M20	20.5	6-13	H05VV-F 4 x 2.5 / 3 x 4 mm², NYM 5 x 1.5 / 5 x 2.5 mm²	V-M20	206910	20
M25	25.5	9-17	H05VV-F 5 x 2.5 / 5 x 4 mm², NYM 5 x 2.5 / 5 x 6 mm²	V-M25	206911	20
M32	32.5	13-21	NYM 5 x 10 mm²	V-M32	206912	10
M40	40.5	16-28	NYM 5 x 16 mm²	V-M40	209668	10
M50	50.5	21-35	NYM 4 x 35 / 5 x 25 mm²	V-M50	206913	5
M63	63.5	34-48	NYM 4 x 35 mm²	V-M63	214835	3

Multiple gaskets for V-M... cable glands, metric

VT06708

M25	–	4 x 5-6	H03VV-F 2 x 0.75 / 3 x 0.75 mm²	MFD25	215451	25
M32	–	4 x 3.5-7	H03VV-F 4 x 0.75 mm²	MFD32	215452	25

Stoppers for unused openings in MFD... multiple gaskets

VT07208

M25	–	–	–	MFV25-6	215453	50
M32	–	–	–	MFV32-7	215454	50

Cable grommets

- For wall thickness of 2-3 mm
- Color: RAL 7035
- Soft PVC
- IP66 if cable entry takes place from below

VT05608

–	58	14-54	–	KT3	031523	2
–	75	14-68	–	KT4	036269	3

Pressure compensating grommets with filter, metric or PG

- For use in the enclosure bottom or sides, PE and PVC
- Color: RAL 7035

VT06608

Cable entry	Hole diameter mm	Type name	Article no.	Units per package
M25	25.5	KT-M25F	224556	50
PG16	23.5	KT16F	024404	100

IP69K ventilation cable gland

- Color: RAL 7035

VT02610

Cable entry	Hole diameter mm	External cable diameter mm	For use with NYM/NYY cable, 4-core mm^2	Type name	Article no.	Units per package
M20	20.5	6-13	H05VV-F4x2.5/3x4 mm^2, NYM 5x1.5/5x2.5 mm^2	V-M20-VENT	120814	1

IP56 ventilation cable gland

- For use in the enclosure bottom or sides, polyamide, halogen-free
- Permeable to air, impermeable to dust
- To prevent condensation
- Color: RAL 7035

VT05808

Cable entry	Hole diameter mm	Type name	Article no.	Units per package
M20	20.5	STB-M20F	224557	20
M25	25.5	STB-M25F	224558	20

IP66 pressure compensating plug, metric

- Color: RAL 7035

VT33209

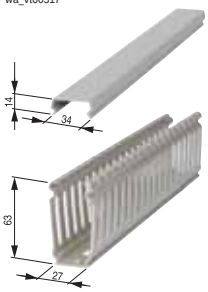
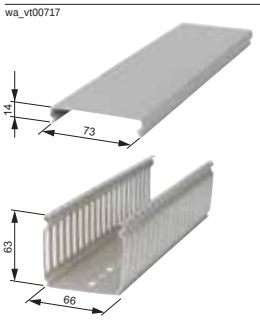
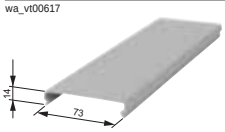
Cable entry	Type name	Article no.	Units per package
M40x1.5	DAV-M40	107225	2

IP55 pressure compensating plug, PG

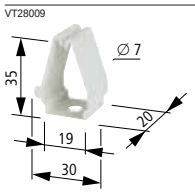
- Color: RAL 7035

VT01612

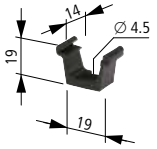
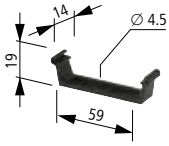
Cable entry	Type name	Article no.	Units per package
PG29	DA412	079219	2

	Supplied in lengths of mm	Capacity max. number of cables (recommended value)	Type and cross-section H 0... V-K mm²	H 0... V-K AWG	Type name	Article no.	Units per package
Cable ducts							
Bolt-on cable ducts							
wa_vt00417	1500	60 40 25 15	0.75 1.5 2.5 4	– 14 10 –	KL25/35	012531	60
wa_vt00517 	1500	100 70 45 30 25	0.75 1.5 2.5 4 6	– 14 10 –	KL25/60	017277	40
wa_vt00717 	1500	260 180 120 80 65	0.75 1.5 2.5 4 6	– 14 10 –	KL60/60	029142	20
Self-adhesive cable ducts							
• Max. ambient temperature +55 °C							
wa_vt00417	650	60 40 25	0.75 1.5 2.5	– 2 10	KL25/35K	014904	50
Cable duct covers							
• Supplied as spares							
wa_vt00317	1500	–	–	–	KD25	019649	1
wa_vt00617 	1500	–	–	–	KD60	024395	1

Cable support brackets

Available lengths mm	Capacity max. number of cables (recommended value)	Type and cross-section H 0... V-K mm²	Type name	Article no.	Units per package
• Bolt-on cable support brackets for use in KL25/35 (K) cable ducts					
VT28009  –	15	4	KH25/35	078974	20

Fixing brackets

For cable ducts	Type name	Article no.	Units per package
VT27909  KL25/...: fixing interval: ≤ 500 mm	KK25	081347	100
VT27809  K60/60: fixing interval: ≤ 300 mm	KK60	083720	100

ITB industrial cable binders

- For bundling and fastening of cables, cable looms, tubes, pipes, etc...
- Continuous ribbing up to point
- Temperature resistant from -40 to +85 °C
- Made from natural-colored PO 6.6, flame-resistant to UL 94 V2
- Resistant to oils, gasoline, salt water, solvents, mold

Length mm	Width mm	Bundle area mm	Special features	Tensile strength N	Type name	Article no.	Units per package
VT08809 98	2.5	21	–	8	ITB1	083550	1000
VT08909 140	3.6	35	–	13	ITB2	085923	1000
VT09009 205	4.2	60	with 4.8 mm lug	220	ITB3	088296	100

	For use with	Type name	Article no.	Units per package

Insulated Conductor supports for copper band

- Short-circuit rating I_{cc} = 50 kA in xEnergy Safety

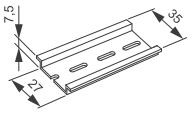
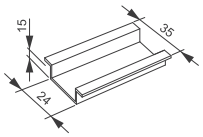
Section strip

wa_vt22613	Latch fastener	BZ248	076516	10
wa_vt34013	3 x 9 x 0.8 + BZ248 6 x 9 x 0.8 + BZ248	BZ249	078889	10
	4 x 16 x 0.8 + BZ248 6 x 16 x 0.8 + BZ248 10 x 16 x 0.8 + BZ248	BZ251	081262	10
	11 x 21 x 1 + BZ248	BZ252	083635	10

	Dimensions mm	Description	Type name	Article no.	Units per package

DIN rail

- In accordance with IEC/EN 60715
- Supplied in lengths of 2 m

TS35X7 	35 x 7.5	Short-circuit rating as PE conductor corresponds to a 16 mm² copper conductor as defined in IEC/EN 61439-1	TS35X7.5	053030	20
TS35X15 	35 x 15	Short-circuit rating as PE conductor corresponds to a 50 mm² copper conductor as defined in IEC/EN 61439-1	TS35X15	050657	10

	Circuit	Rated uninterrupted current I_u A	Terminal capacities [1] mm²	Copper band mm	Type name	Article no.	Units per package

Insulated individual terminal

- Touch-safe on all sides, VDE approved
- For snap-fitting onto DIN rail, in accordance with IEC/EN 60715
- For snap-fitting onto mounting plates and directly onto the CI enclosure stacking mandrels
- Can be grouped with additional K50/1 terminals
- With L, N, and protective conductor markings

4300PIC-283		150	○ 2.5 - 50 ⁘ 2.5 - 50 ⁘ 2.5 - 35	▤ 9 x 0.8	K50/1	098573	10

1) ○ Solid round conductors
⁘ Stranded round conductors
⁘ Flexible round conductors with correctly crimped ferrule
▤ Copper band

Laminated and insulated copper band

- Tinned E-Cu conductor
- Rated voltage 1000 V AC/1500 V DC
- UL approved for max. 600 V AC
- Dielectric strength: 20 kV/mm
- The insulating material is heat resistant up to +105 °C
- Self-extinguishing in accordance with UL 94 V0
- 2000 mm long
- Continuous currents to DIN 43671, see technical data

wa_vt04807

Rated current range [1] A	Dimensions (number of layers x width x thickness of one layer) mm	Cross section [2] mm²	Color	Type name	Article no.	Units per package
100	3 x 9 x 0.8	21.6	black	CU-BAND3X9X0.8-BK	081167	20
	3 x 9 x 0.8	21.6	blue	CU-BAND3X9X0.8-BK	080960	20
	3 x 9 x 0.8	21.6	yellow/green	CU-BAND3X9X0.8-GNYE	081006	20
160	6 x 9 x 0.8	43.2	black	CU-BAND6X9X0.8-BK	081414	10
	6 x 9 x 0.8	43.2	blue	CU-BAND6X9X0.8-BU	081344	10
	6 x 9 x 0.8	43.2	yellow/green	CU-BAND6X9X0.8-GNYE	081367	10
200	9 x 9 x 0.8	64.8	black	CU-BAND9X9X0.8-BK	081515	10
	9 x 9 x 0.8	64.8	blue	CU-BAND9X9X0.8-BU	081436	10
	9 x 9 x 0.8	64.8	yellow/green	CU-BAND9X9X0.8-GNYE	081485	10
250	6 x 16 x 0.8	74.4	black	CU-BAND6X16X0.8-BK	081310	10
	6 x 16 x 0.8	74.4	blue	CU-BAND6X16X0.8-BU	081222	10
	6 x 16 x 0.8	74.4	yellow/green	CU-BAND6X16X0.8-GNYE	081275	10
400	10 x 16 x 0.8	124	black	CU-BAND10X16X0.8-BK	080739	5
	10 x 16 x 0.8	124	blue	CU-BAND10X16X0.8-BU	079736	5
	10 x 16 x 0.8	124	yellow/green	CU-BAND10X16X0.8-GNYE	080698	5
	5 x 24 x 1	120	black	CU-BAND5X24X1-BK	119032	5
630	11 x 21 x 1	231	black	CU-BAND11X21X1-BK	080923	5
	11 x 21 x 1	231	blue	CU-BAND11X21X1-BU	080769	5
	11 x 21 x 1	231	yellow/green	CU-BAND11X21X1-GNYE	080836	5
	8 x 24 x 1	192	black	CU-BAND8X24X1-BK	119033	5
	10 x 24 x 1	240	black	CU-BAND10X24X1-BK	119034	5
	5 x 32 x 1	160	black	CU-BAND5X32X1-BK	119035	5
800	10 x 32 x 1	320	black	CU-BAND10X32X1-BK	119036	3
1000	10 x 40 x 1	400	black	CU-BAND10X40X1-BK	119037	3
1250	10 x 50 x 1	500	black	CU-BAND10X50X1-BK	119038	2
1600	10 x 80 x 1	800	black	CU-BAND10X80X1-BK	119039	1

Notes [1] Continuous currents to DIN 43671, see technical data
[2] Cross section: the device wiring instructions (e.g. terminal capacity of least … mm²) must be observed

Basic enclosures, selecting the enclosure size

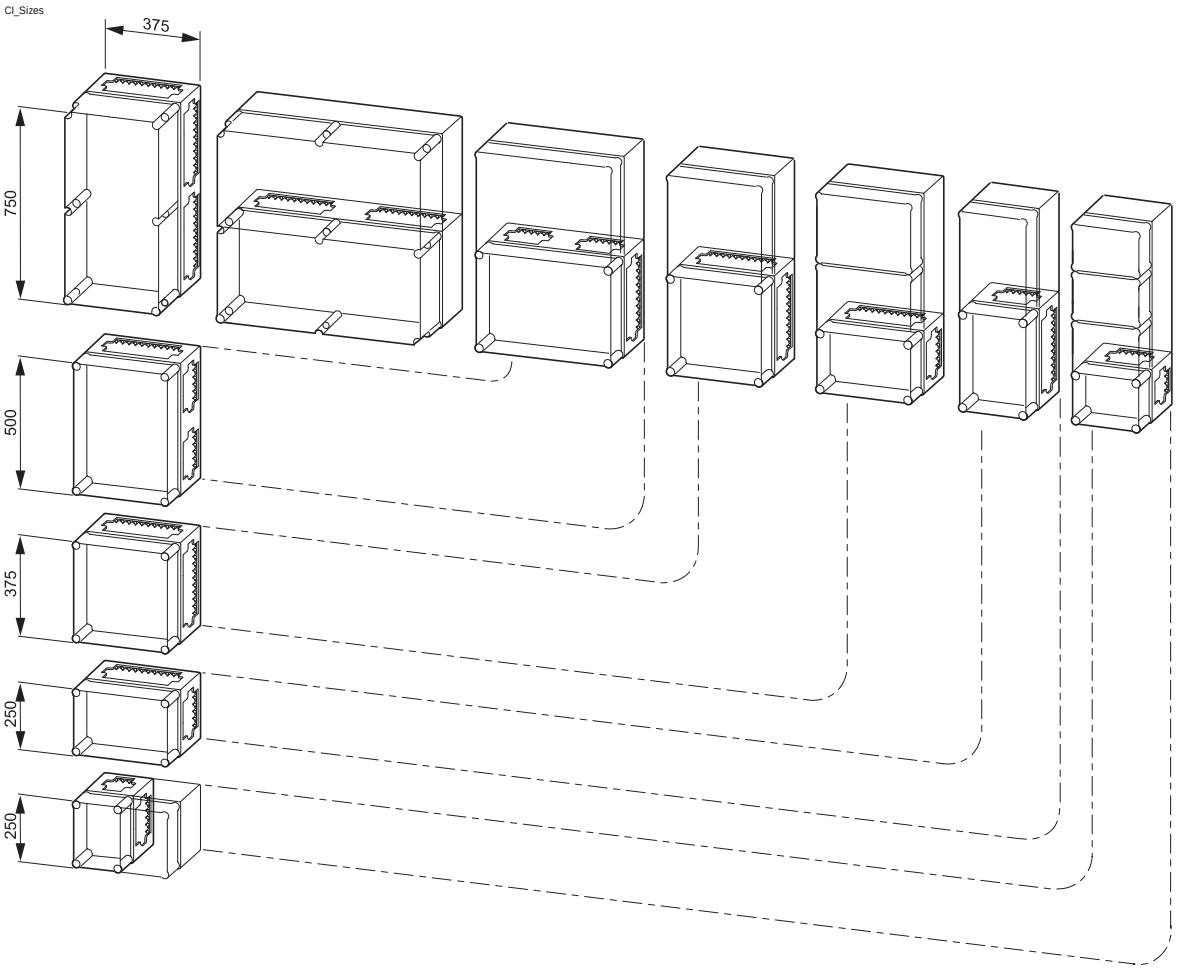
Enclosure dimensions

Width:
187.5 mm
375 mm

Height:
250 mm
375 mm
500 mm
750 mm

For distribution assemblies with section widths in 375 mm increments.
Rotating the enclosures by 90° enables section widths in increments of 250 mm.

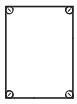
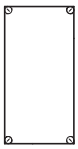
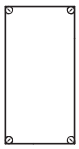
Different cover depths enable the implementation of four standard mounting depths in 25 mm increments (top edge of mounting plate to bottom edge of cover):
125 mm
150 mm
200 mm
250 mm
300 mm



Basic enclosures, installing switchgear in panel enclosures, mounting plates

Mounting plates are available for installing the switchgear in power distribution enclosures. In certain cases, additional HS50-CI spacers are required.

The following table shows the maximum number of permissible devices. The PE/N terminals for the panel enclosures are not included.

Device	Rated operational current A	Max. number of permissible devices for distributor assemblies						Mounting plate	Spacer
									
		CI43(E)-200 Quantity	CI43(E)-200 Rotated by 90° Quantity	CI44(E)-200 Quantity	CI45(E)-200 CI45(E)-250 Quantity	CI48(E)-200 Quantity	CI48(E)-250 Quantity		
NH fuse switch-disconnectors									
XNH00-A...	160	2	1	2	2	4	4	M3-CI...	HS50-CI
XNH1-A...	250	-	-	1	1	1	1	M3-CI...	HS50-CI
XNH2-A...	390	-	-	-	1	1	1	M3-CI...	HS50-CI
XNH3-A...	550	-	-	-	-	-	1	M3-CI...	HS50-CI
NH fuse base									
GS00-160	160	2	1	3	3	6	6	M3-CI...	HS50-CI
GS1	250	-	-	1	1	2	2	M3-CI...	HS50-CI
GS2	400	-	-	1	1	1	1	M3-CI...	HS50-CI
GS3	500	-	-	-	1	1	1	M3-CI...	HS50-CI
Switch-disconnector, circuit breaker									
NZM1	140	1	1	2	2	2	2	M3-CI...	-
NZM2	230	-	-	1	1	1	1	M3-CI...	-
NZM3	510	-	-	-	1	1	1	M3-CI...	-
NZM4	1420	-	-	-	-	-	1	M3-CI...	-

Modular busbar systems up to 1600 A, overview, 50 mm system

- 5-conductor system up to 400 A with 1/1 cross-section possible
- 5-conductor system up to 630 A L1 - L3 with 1/1 cross-section, PE/N with 1/2 cross-section
- Fuses with 25 A to 400 A, for mounting on busbar systems up to 630 A
- EN13601-Cu-ETP-R250

Rated operational current I_e A	Busbar cross-section		Distance between busbar centers mm
	L1, L2, L3 mm	PE, N, PEN mm	
160	12 x 5	12 x 5	40
250	20 x 5	20 x 5	50
400	20 x 10	20 x 5	50
630	20 x 15	20 x 10	50
1000	2 x 30 x 10	30 x 10	[1]
1600	3 x 40 x 10	2 x 20 x 15	[1]

Notes [1]Special busbars can only be used as the main busbar.
They cannot be used as dropper bars for devices.

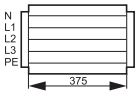
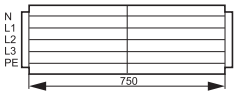
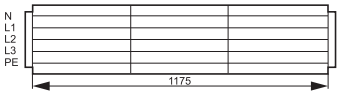
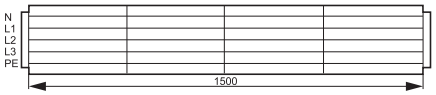
Modular busbar systems up to 1600 A, overview, 60 mm system

Rated operational current I_e A	Busbar cross-section L1, L2, L3 mm	N/PE mm	Distance between busbar centers mm	Mountable devices	Protective shroud against accidental contact
250	20 x 5	20 x 5 / 12 x 5	60	D02-SO/63/3-R-27 D02-LTS/63/3-S60 XNH00-S160-BT1 XNH1-S250-BT	GA-44-S60-... GA-43-S60-...
400	20 x 10	20 x 10 / 20 x 5	60	D02-SO/63/3-R-27 D02-LTS/63/3-S60 XNH00-S160-BT1 XNH1-S250-BT XNH2-S400-BT	GA-44-S60-... GA-43-S60-...
630	30 x 10	30 x 10 / 30 x 5	60	D02-SO/63/3-R-27 D02-LTS/63/3-S60 XNH00-S160-BT1 XNH1-S250-BT XNH2-S400-BT	GA-44-S60-... GA-43-S60-...

Notes
Distance between the busbar supports ≤ 290 mm
Cu: EN13601-Cu-ETP-R250

Modular busbar selection tables up to 630 A, up to 5 poles, 60 mm system

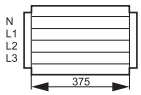
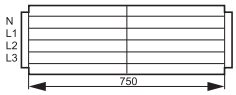
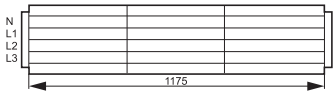
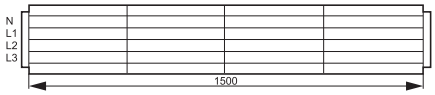
- 3 poles (with or without devices)
- CI44-S60-... enclosures

Busbar system in CI enclosure: assembled from individual modules for between 1 and 4 Ci enclosures	Rated operational current A	**CI44-200**	**SL630...**	**CU20X5**[1)]	**CU20X10**[1)]	**CU30X10**[1)]	**FL4-X**	**BS4-CI**
	250	1	2	3 x 360	-	-	2	-
	400	1	2	-	3 x 360	-	2	-
	630	1	2	-	-	3 x 360	2	-
	250	2	4	3 x 720	-	-	2	1
	400	2	4	-	3 x 720	-	2	1
	630	2	4	-	-	3 x 720	2	1
	250	3	6	3 x 1080	-	-	2	2
	400	3	6	-	3 x 1080	-	2	2
	630	3	6	-	-	3 x 1080	2	2
	250	4	8	3 x 1440	-	-	2	3
	400	4	8	-	3 x 1440	-	2	3
	630	4	8	-	-	3 x 1440	2	3

Notes [1)] The specifications in mm apply to 60 mm systems with 3 poles

Modular busbar selection tables up to 1000 A, up to 5 poles, 50 mm system

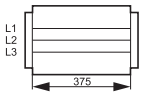
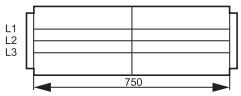
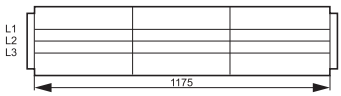
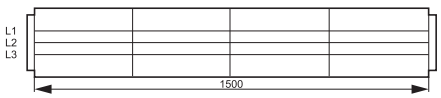
- Up to 5 poles
- CI..., SKA...

Busbar system in CI enclosure: assembled from individual modules for between 1 and 4 Ci enclosures	Rated operational current A	CI44-200	SH1005/4	CU30X10[1)]	FL4-X	BS4-CI
	1000	1	2	3000	2	-
	1000	2	3	6000	2	1
	1000	3	4	9000	2	2
	1000	4	5	12000	2	3

Notes [1)] The specifications in meters are applicable to 5-pole systems
In order to achieve an even distribution of the current load (and temperature rise) for the individual busbars, the latter must be connected in parallel at a distance of max. 375 mm by means of busbar terminals. Feeder and outgoer terminals must be connected in parallel.

Modular busbar selection tables up to 1600 A, 3 poles, 50 mm system

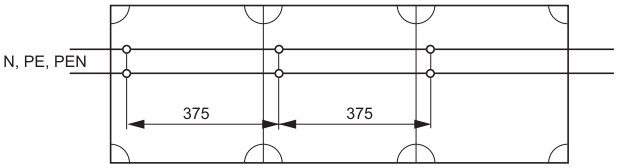
- 3 poles
- CI..., SKA...

Busbar system in CI enclosure: assembled from individual modules for between 1 and 4 Ci enclosures	Rated operational current A	CI44-200	SH1603/4	CU40X10[1)]	FL4-X	BS4-CI
	1600	1	2	3375	2	-
	1600	2	3	6750	2	1
	1600	3	4	10125	2	2
	1600	4	5	13500	2	3

Notes [1)] The specifications in meters are applicable to 3-pole systems
In order to achieve an even distribution of the current load (and temperature rise) for the individual busbars, the latter must be connected in parallel at a distance of max. 375 mm by means of busbar terminals. Feeder and outgoer terminals must be connected in parallel.

N, PE, PEN at 1600 A

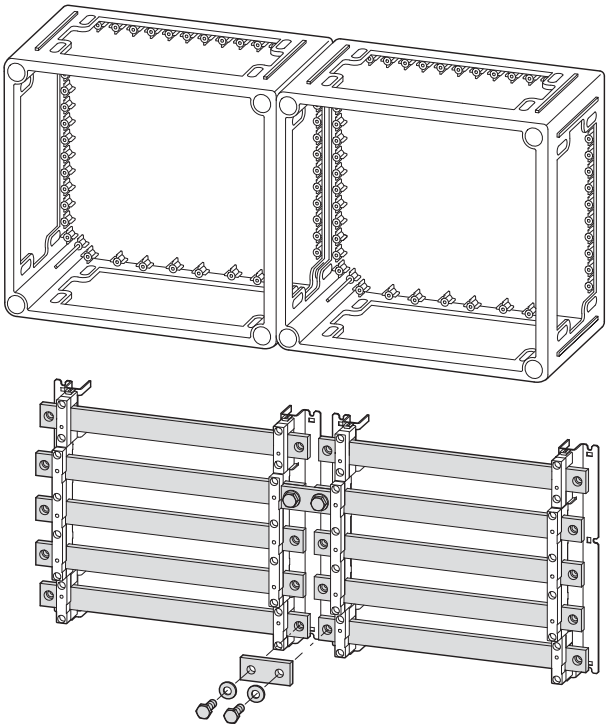
In the 1600 A busbar system, 2 x CU20X15 each are used as N, PE and PEN conductors. For an even current load, the busbars must be connected in parallel at a distance of no more than 375 mm.



Transport split, busbar link, System 60 mm

During transport splits, the busbar supports remain in their original position and do not need to be offset. As a result, the installation space for device structures on the copper bars is not reduced, it is the full installation space available.

The transport separation is realized with screw connection elements made of copper. In end enclosures, transport splits should always be fitted to facilitate subsequent expansion.



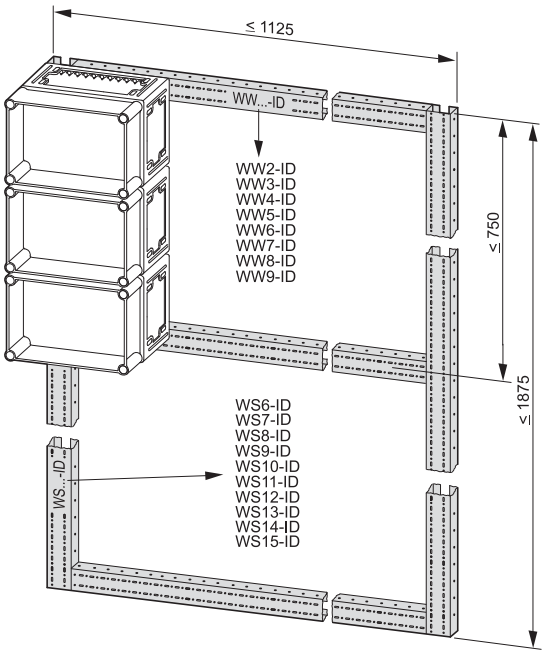
Distance between busbar supports when using transport splits, busbar links, 50 mm system

Busbar supports	Busbar system	Additional support bracket for busbar supports	Distance between busbar supports mm	Terminal	
				L1, L2, L3	N, PE, PEN
SH0165/2	160 A, 5-pole	HSH0632	125	K12X5-1	K12X5-1
SH0635/3	250 A, 5-pole	HSH-CI	175	K20X5	K20X5
	400 A, 5-pole	HSH-CI	175	K20X10	K20X5
	630 A, 3-pole	HSH-CI	125	K20X10	-
SH0635/4	250 A, 5-pole	HSH-CI	125	K20X5	K20X5
	400 A, 5-pole	HSH-CI	125	K20X10	K20X5
	630 A, 5-pole	HSH-CI	125	K20X10	K20X10
SH1005/4	1000 A, 5-pole	HSH-CI	125	AVS30L	AVS30PEN
SH1603/4	1600 A, 3-pole	HSH-CI	125	AVS40	-
SH0632	250 A, 1-, 2-pole	HSH0632	~ 170	-	K12X5, K20X5
	400 A, 1-, 2-pole	HSH0632	~ 170	-	K12X5, K20X5
	630 A, 1-, 2-pole	HSH0632	~ 170	-	K12X5, K20X5

Notes 2 x HSH-CI or 2 x HSH0632 are required in order to secure each busbar support outside the knockouts.
Exception: For SH0632, only 1 x HSH0632 is required.

Selecting the WW...-ID, WS...-ID mounting frames

Wall-mounted distribution boards



The sections are arranged in increments of 125 mm, in line with the enclosure widths and heights.

Vertical sections:
WS...-ID

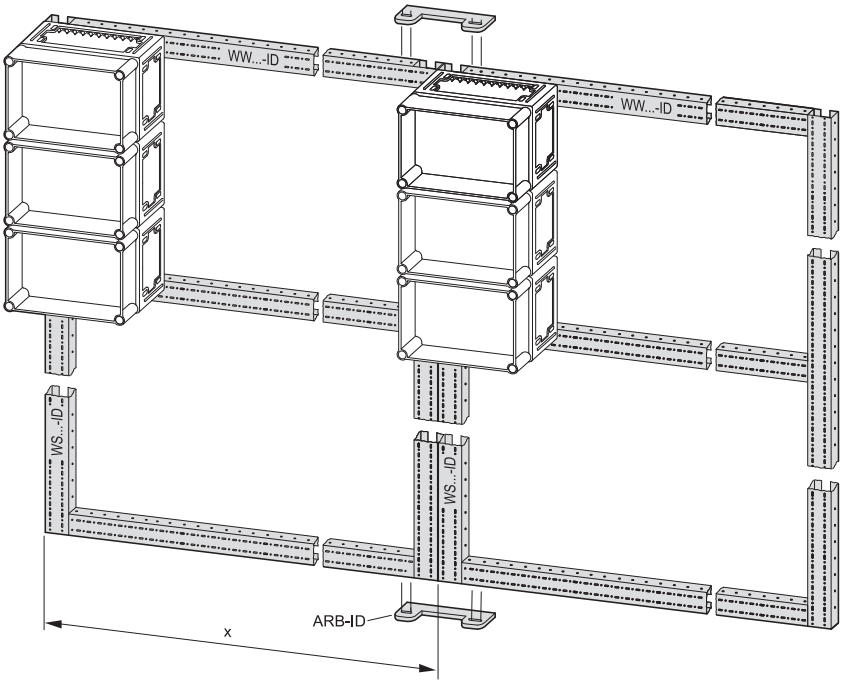
Number of 125 mm increments
= 6, 7, 8, 9, 10, 11, 12, 13, 14, 15
Vertical **wall** section

Horizontal sections:
WW...-ID

Number of 125 mm increments
= 2, 3, 4, 5, 6, 7, 8, 9
Horizontal **wall** section

Vertical and horizontal sections are connected using the EVB-ID corner plates and KVB-ID cross plates (which must be ordered separately).

The vertical sections of the support frame are fastened with 2 WBW...-ID wall fixing brackets (which must be ordered separately).

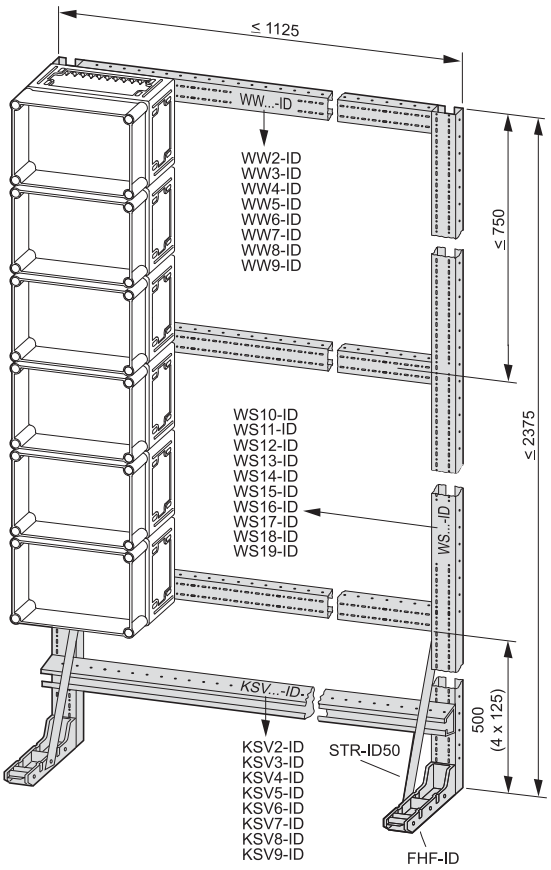


If wall-mounted distribution boards wider than 1125 mm are required, these are split into several transport units accordingly. The ARB-ID assembly bracket is used to mechanically interconnect the wall sections at the top and bottom. The enclosures are then joined together using the K-CI wedge-lock fasteners.

x = Transport unit

Selecting the WW...-ID, WS...-ID mounting frames

Wall-mounted distribution boards, supported on the floor



The sections are arranged in increments of 125 mm, in line with the enclosure widths and heights.
For vertical sections, an additional 500 mm (4 x 125 mm) are added (this applies to KSV…).

Vertical sections:
WS...-ID

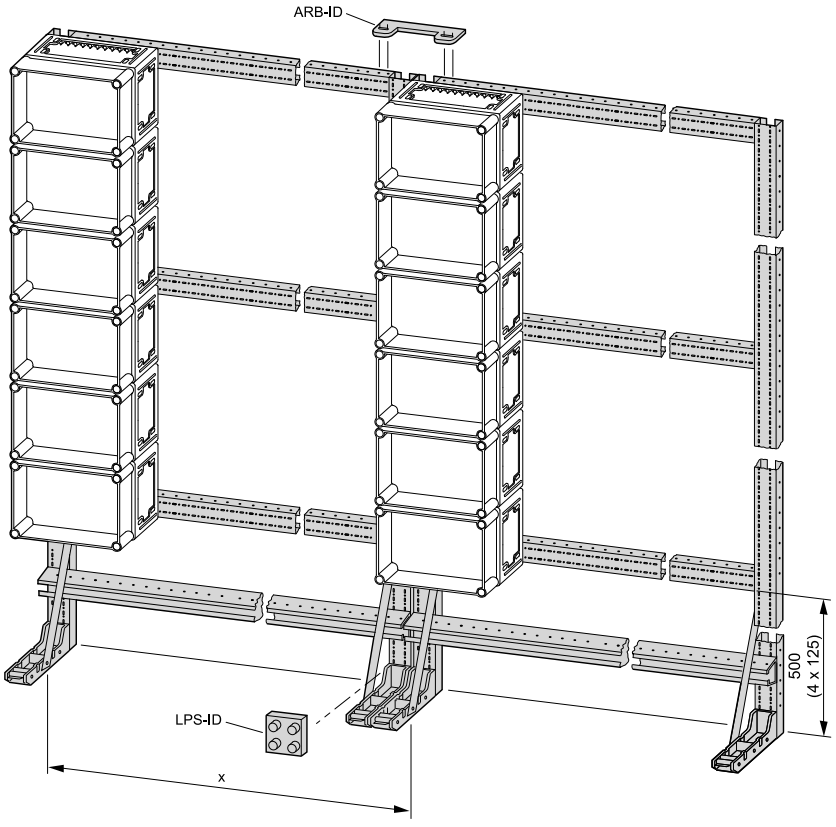
Number of 125 mm increments
= 10, 11, 12, 13, 14, 15, 16, 17, 18, 19
Vertical wall section

Horizontal sections:
WW...-ID

Number of 125 mm increments
= 2, 3, 4, 5, 6, 7, 8, 9
Horizontal **wall** section

Vertical and horizontal sections are connected with EVB-ID corner plates and KVB-ID cross plates (order separately).

The vertical sections of the support frame are fastened to the wall using 2 WBW...-ID wall fixing brackets (which must be ordered separately).

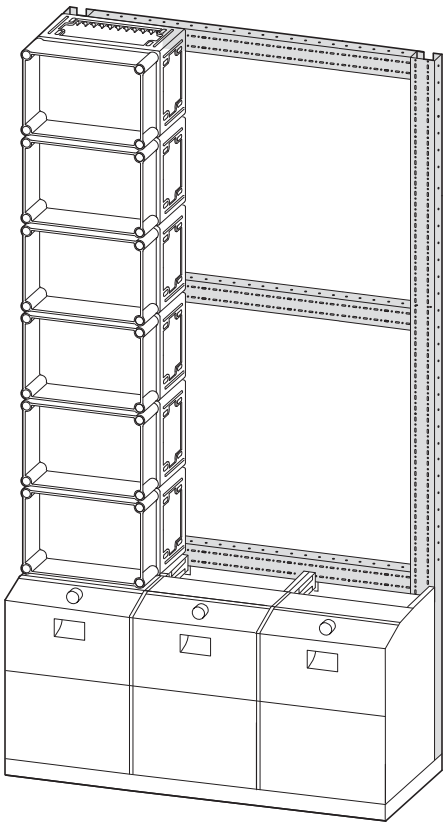


If larger wall-mounted distribution boards are required, these are split into several transport units accordingly. The ARB-ID assembly bracket and the LPS-ID straps are used to mechanically interconnect the wall sections.

x = Transport unit

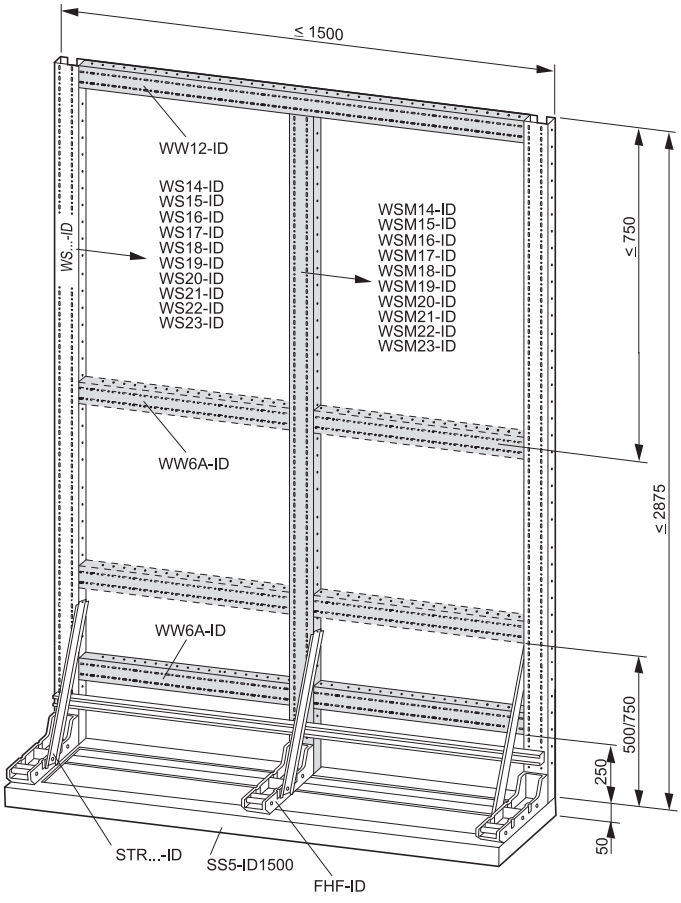
Selecting the WW...-ID, WS...-ID mounting frames

Floor-mounted distribution boards



Larger distribution systems are assembled on support frames and laid out as floor-mounted distribution boards with cable compartment cladding.

Floor-mounted distribution board with a width of 4 sections



The sections are arranged in increments of 125 mm, in line with the enclosure widths and heights.

Vertical sections:
WS...-ID

Number of 125 mm increments
= 10, 11, 12, 13, 14, 15, 16, 17, 18, 19
Vertical **wall** section

Horizontal sections:
WW...-ID

Number of 125 mm increments
= 2, 3, 4, 5, 6, 7, 8, 9
Horizontal **wall** section

For distribution boards wider than 1500 mm, a vertical center section must be added. In this case, smaller horizontal sections are used.

WSM...-ID

Number of 125 mm increments
= 14, 15, 16, 17, 18, 19, 20, 21, 22, 23
Vertical wall **section** for **center** mounting

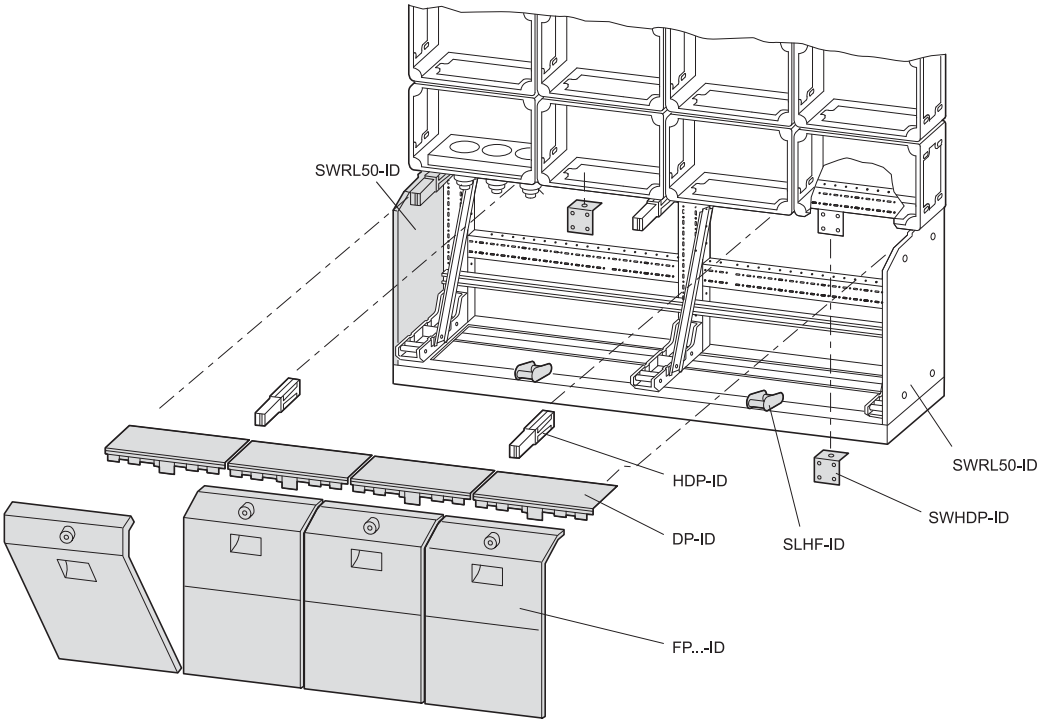
Vertical and horizontal sections are connected using the EVB-ID corner plates and KVB-ID cross plates (which must be ordered separately).

The vertical sections of the support frame are fastened to the wall using 2 WBW...-ID wall fixing brackets (which must be ordered separately).

When mounting very heavy devices (e.g. the NZM4), a reinforced frame is recommended. For this purpose, the frame will be equipped with an additional WSM...-ID center section and an FHF-ID foot.

Selecting the WW...-ID, WS...-ID mounting frames

Cable compartment cladding for floor-mounted distribution boards



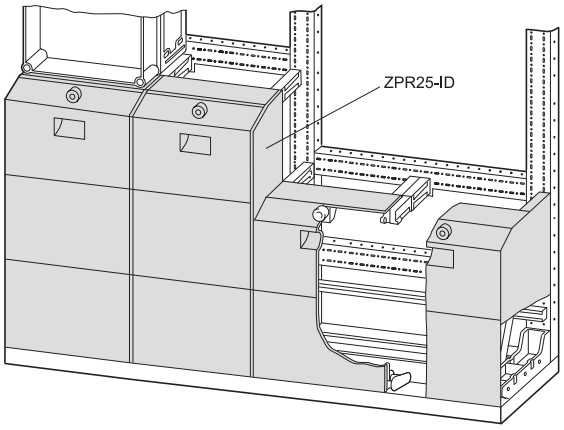
Floor-mounted distribution boards are mounted on a plinth. Three different cable compartment heights (250 mm, 500 mm and 750 mm, plus 50 mm for the plinth) are available for the insertion, sorting and marshaling of cables. In addition, cable anchoring rails for T clips can also be integrated inside the plinth. The fronts of the cable compartments are closed off using insulating front plates.

Compatibility:
Cable compartments of different heights can also be combined. The side openings are closed off using intermediate plates. Both left- and right-hand versions are available. The final height is the result of the difference between the various front plates.

ZP...-ID

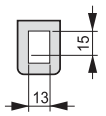
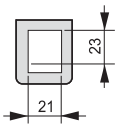
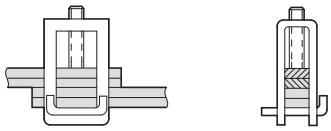
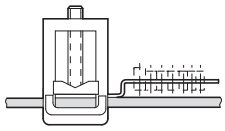
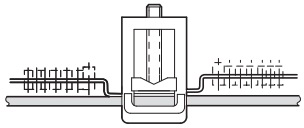
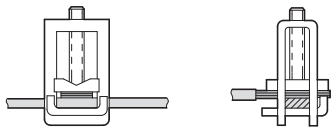
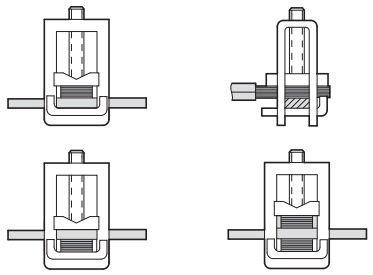
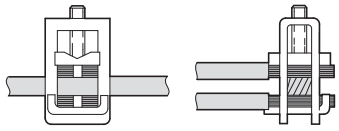
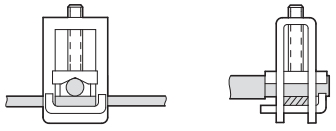
25 = 250 mm high intermediate plate
50 = 500 mm high intermediate plate

R = intermediate plate on the right
L = intermediate plate on the left



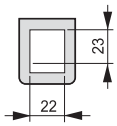
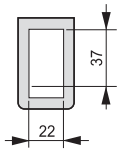
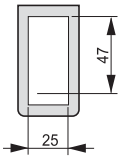
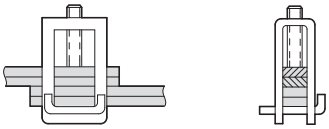
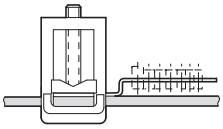
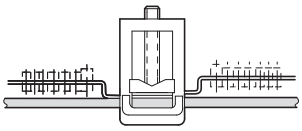
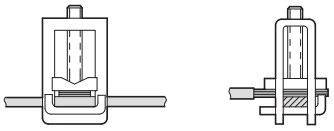
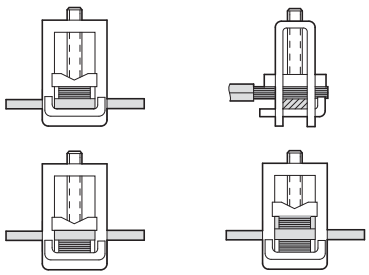
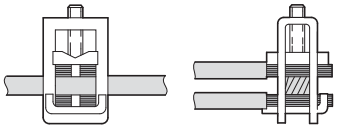
How to select the wiring

Connections to busbars

Type of connection	Terminal type **K 12 x 5-1**		Terminal type **K 12 x 5-2**	
				
Copper bar to copper bar	(2 x) 12 x 5	–	(2 x) 12 x 5 (3 x) 12 x 5	–
				
Copper bar to (1 x) L-KL-R strap (can be fitted with AK16, AK35)	(1 x) 12 x 5	+ L-KL-R	(1 x) 12 x 5 (2 x) 12 x 5	+ L-KL-R
				
Copper bar to (2 x) L-KL-R strap (can be fitted with AK16, AK35)	–	–	(1 x) 12 x 5 (2 x) 12 x 5	+ (2 x) L-KL-R
				
Copper bar to copper strip	12 x 5	+ 3 x 9 x 0.8 6 x 9 x 0,8	12 x 5	+ 3 x 9 x 0.8 6 x 9 x 0,8 9 x 9 x 0.8 4 x 16 x 0.8 6 x 16 x 0.8 10 x 16 x 0.8
				
Copper bar to (2 x) copper strip	–	–	12 x 5	+ (2 x) 3 x 9 x 0.8 (2 x) 4 x 16 x 0.8
				
Copper bar to (4 x) copper strip	–	–	12 x 5	+ (4 x) 3 x 9 x 0.8
				
Copper busbar to round copper conductor[1)]	12 x 5	+ 16 - 25 mm^2	12 x 5	+ 25 mm^2
				

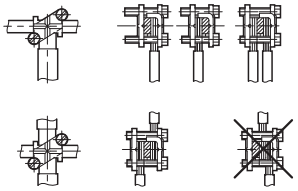
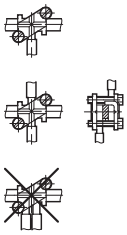
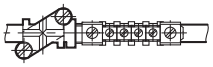
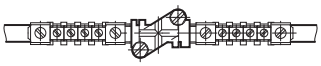
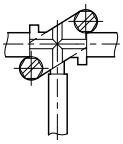
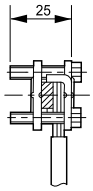
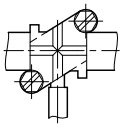
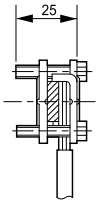
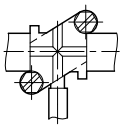
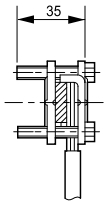
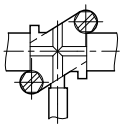
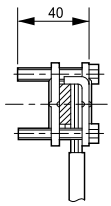
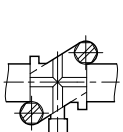
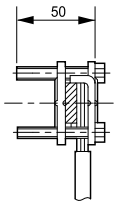
[1)] flexible with ferrule

Connections to busbars (continued)

Type of connection	Terminal type **K 20 x 5** 		Terminal type **K 20 x 10** 		Terminal type **K 20 x 15** 	
Copper bar to copper bar 	(2 x) 20 x 5 (2 x) 20 x 10	–	(2 x) 20 x 5 (2 x) 20 x 10 (2 x) 20 x 15	–	(2 x) 20 x 10 (2 x) 20 x 15	–
Copper bar to (1 x) L-KL-R strap (can be fitted with AK16, AK35) 	(1 x) 20 x 5 (2 x) 20 x 5 (1 x) 20 x 10	+ L-KL-R	(1 x) 20 x 5 (2 x) 20 x 5 (1 x) 20 x 10 (2 x) 20 x 10 (1 x) 20 x 15	+ L-KL-R	(2 x) 20 x 10 (1 x) 20 x 15 (2 x) 20 x 15	+ L-KL-R
Copper bar to (2 x) L-KL-R strap (can be fitted with AK16, AK35) 	(1 x) 20 x 5	+ (2 x) L-KL-R	(1 x) 20 x 5 (2 x) 20 x 5 (1 x) 20 x 10 (2 x) 20 x 10 (1 x) 20 x 15	+ (2 x) L-KL-R	(2 x) 20 x 10 (1 x) 20 x 15 (2 x) 20 x 15	+ (2 x) L-KL-R
Copper bar to copper strip 	20 x 5	+ 3 x 9 x 0.8 6 x 9 x 0.8 9 x 9 x 0.8	20 x 5 20 x 10 20 x 15	+ 3 x 9 x 0.8 6 x 9 x 0.8 9 x 9 x 0.8	20 x 5	+ 10 x 16 x 0.8 11 x 21 x 1
		4 x 16 x 0.8 6 x 16 x 0.8 10 x 16 x 0.8		4 x 16 x 0.8 6 x 16 x 0.8 10 x 16 x 0.8 11 x 21 x 1	20 x 10 20 x 15	+ 3 x 9 x 0.8 6 x 9 x 0.8 9 x 9 x 0.8 4 x 16 x 0.8 6 x 16 x 0.8 10 x 16 x 0.8 11 x 21 x 1
Copper bar to (2 x) copper strip 	20 x 5	+ (2 x) 3 x 9 x 0.8 (2 x) 4 x 16 x 0.8	20 x 5	+ (2 x) 3 x 9 x 0.8 (2 x) 6 x 9 x 0.8 (2 x) 9 x 9 x 0.8 (2 x) 4 x 16 x 0.8 (2 x) 6 x 16 x 0.8 (2 x) 10 x 16 x 0.8	20 x 5 20 x 10	+ (2 x) 6 x 9 x 0.8 (2 x) 9 x 9 x 0.8 (2 x) 6 x 16 x 0.8 (2 x) 10 x 16 x 0.8 (2 x) 11 x 21 x 1
			20 x 10	+ (2 x) 3 x 9 x 0.8 (2 x) 6 x 9 x 0.8 (2 x) 6 x 9 x 0.8 (2 x) 9 x 9 x 0.8 (2 x) 4 x 16 x 0.8 (2 x) 6 x 16 x 0.8	20 x 15	+ (2 x) 3 x 9 x 0.8 (2 x) 6 x 9 x 0.8 (2 x) 9 x 9 x 0.8 (2 x) 4 x 16 x 0.8 (2 x) 6 x 16 x 0.8 (2 x) 10 x 16 x 0.8 (2 x) 11 x 21 x 1
Copper bar to (4 x) copper strip 	20 x 5	+ (4 x) 3 x 9 x 0.8	20 x 5	+ (4 x) 3 x 9 x 0.8 (4 x) 6 x 9 x 0.8 (4 x) 9 x 9 x 0.8	20 x 5 20 x 10 20 x 15	+ (4 x) 6 x 9 x 0.8 (4 x) 9 x 9 x 0.8
			20 x 10 20 x 15	+ (4 x) 3 x 9 x 0.8 (4 x) 6 x 9 x 0.8		

How to select the wiring

Connections to busbars (continued)

Terminal type	Type of connection **Copper bar to copper strip**		Type of connection **Copper bar to round conductor (flexible with ferrule)**		Type of connection **Copper bar to L-KL-R strap (can be fitted with AK16, AK35)**	
					 **(1 x) L-KL-R max. 200 A**  **(2 x) L-KL-R max. (2 x) 200 A**	
K 12 x 5/25  	12 x 5	+ (1 x) 3 x 9 x 0.8 (2 x) 3 x 9 x 0.8 (1 x) 6 x 9 x 0.8 (2 x) 6 x 9 x 0.8 (1 x) 4 x 16 x 0.8 (2 x) 4 x 16 x 0.8 (1 x) 6 x 16 x 0.8 (2 x) 6 x 16 x 0.8	12 x 5	+ 1.5 - 6 mm²	12 x 5	+ (1 x) L-KL-R (2 x) L-KL-R
K 20 x 5/25  	20 x 5	+ (1 x) 3 x 9 x 0.8 (2 x) 3 x 9 x 0.8 (1 x) 6 x 9 x 0.8 (2 x) 6 x 9 x 0.8 (1 x) 4 x 16 x 0.8 (2 x) 4 x 16 x 0.8 (1 x) 6 x 16 x 0.8 (2 x) 6 x 16 x 0.8	20 x 5	+ 1.5 - 6 mm²	20 x 5	+ (1 x) L-KL-R (2 x) L-KL-R
K 20 x 10/35  	20 x 5 20 x 10	+ (1 x) 3 x 9 x 0.8 (2 x) 3 x 9 x 0.8 (1 x) 6 x 9 x 0.8 (2 x) 6 x 9 x 0.8 (1 x) 9 x 9 x 0.8 (2 x) 9 x 9 x 0.8 (1 x) 4 x 16 x 0.8 (2 x) 4 x 16 x 0.8 (1 x) 6 x 16 x 0.8 (2 x) 6 x 16 x 0.8 (1 x) 10 x 16 x 0.8 (2 x) 10 x 16 x 0.8	20 x 10	+ 1.5 - 6 mm²	20 x 10	+ (1 x) L-KL-R (2 x) L-KL-R
K 20 x 15/40  	20 x 5 20 x 10 20 x 15	+ (1 x) 3 x 9 x 0.8 (2 x) 3 x 9 x 0.8 (1 x) 6 x 9 x 0.8 (2 x) 6 x 9 x 0.8 (1 x) 9 x 9 x 0.8 (2 x) 9 x 9 x 0.8 (1 x) 4 x 16 x 0.8 (2 x) 4 x 16 x 0.8 (1 x) 6 x 16 x 0.8 (2 x) 6 x 16 x 0.8 (1 x) 10 x 16 x 0.8 (2 x) 10 x 16 x 0.8 (1 x) 11 x 21 x 1	20 x 5 20 x 10 20 x 15	+ 1.5 - 6 mm²	20 x 5 20 x 10 20 x 15	+ (1 x) L-KL-R (2 x) L-KL-R
K 20 x 15/50  	20 x 15	+ (1 x) 11 x 21 x 1 (2 x) 11 x 21 x 1	20 x 15	+ 1.5 - 6 mm²	20 x 15	+ (1 x) L-KL-R 2 x) L-KL-R

Declaration of conformity

Declaration of Conformity

We, EATON Industries (Austria) GmbH
3943 Schrems, Eugenia 1
Austria

declare under our sole responsibility that the product (family)

Eaton - Low-Voltage switchgear and controlgear assemblies

xEnergy Safety / Ci..

(the declaration of conformity applies to all
listed types within our actual product catalogue)

provided that it is installed, maintained and used in the application intended for, with respect to the relevant manufacturer's instructions, installation standards and "good engineering practices"

complies with the provisions of Council directive(s):

Low Voltage Directive 2014/35/EU

EMC Directive 2014/30/EU

based on compliance with following standard(s):

EN62208/11, EN61439-1/11, EN61439-2/11

20.04.2016

Fernando Ceccarelli

Senior Vice President
General Manager

Friedrich Schröder

Director Quality
& Systems

Affixing date of CE mark: 1985

Doc.Id.: xEnergy_Safety_Ci.._200416

Ci basic enclosures

IEC/EN 62208

Full compliance with the IEC/EN 62208 standard is a prerequisite for using basic enclosures to assemble a low-voltage main distribution system or a low-voltage sub-distribution system in line with IEC/EN 61439-2.
xEnergy Safe complies with the following specifications:

Inscriptions	The requirements of the product standard are met.
Static load	Ci23: 6.5 kg; Ci43: 12.5 kg; Ci44: 25 kg; Ci45: 37.5 kg; Ci48: 50 kg; The requirements of the product standard are met.
Lifting	Max. weight that can be installed for each enclosure size: Ci23: 5 kg; Ci43: 10 kg; Ci44: 20 kg; Ci45: 30 kg; Ci48: 40 kg Meets the requirements if assembled and secured using the support frame and the lifting aid, as per the latest applicable instruction leaflet.
Pulling out of metal inserts	350 N The requirements of the product standard are met.
Impact test	IK10 (IK09 for side plates and flanges) The requirements of the product standard are met.
IP degree of protection	IP65 The requirements of the product standard are met.
Heat resistance	The requirements of the product standard are met.
Resistance to normal heat	The requirements of the product standard are met.
Resistance to abnormal heat	Base: 960 °C/cover: 850 °C The requirements of the product standard are met.
Insulation resistance	Insulation resistance U_i = 1000 V AC/1500 V DC The requirements of the product standard are met.
Protection against electric shock	Protection class 2, fully insulated.
Resistance to ultra-violet (UV) radiation	Total exposure duration = 500 h The requirements of the product standard are met. For enclosures containing pre-installed components, Eaton recommends the use of a protective shield.
Corrosion resistance	Ci enclosures and the installed metal parts. Cyclic damp heat, as defined in IEC 60068-2-30 Salt spray fog test in accordance with IEC 60068 The requirements of the product standard are met.
Radiated heat dissipation	See page xx: Radiated heat dissipation

For design verifications at the component level, please refer to the xEnergy Safety documents provided by Eaton.

CI distribution boards

IEC/EN 61439-2 (VDE 0660-600-2)

A design verification is available for the functional units of the switchgear assemblies. Customers may use them to assemble switchgear assemblies, distribution boards and individual control panels.
Devices for front mounting: The stated reference values apply to the basic elements of the distribution board. For installed devices, terminals, etc., the corresponding characteristic values and ratings apply. For design verifications at the component level, please refer to the xEnergy Safety documents provided by Eaton.

Corrosion resistance	Cyclic damp heat, as defined in IEC 60068-2-30 Salt spray fog test in accordance with IEC 60068 The requirements of the product standard are met.					
Heat resistance of enclosures	The requirements of the product standard are met.					
Glow-wire test	Glow-wire test base: 960 °C/cover: 850 °C/busbar supports: 960 °C/ covers: 650 °C The requirements of the product standard are met.					
Resistance to ultra-violet (UV) radiation	UV-resistant for 500 h, in accordance with ISO 4892-2					
Lifting	4-row floor-mounted distribution board and additional weight of 500 kg, assembled and secured using the support frame and the lifting aid, as per the latest applicable instruction leaflet. The requirements of the product standard are met.					
Impact test	IK10 (IK09 for side plates and flanges) The requirements of the product standard are met.					
Inscriptions	The requirements of the product standard are met.					
Degree of protection of enclosures	IP65 The requirements of the product standard are met.					
Clearances and creepage distances	With Eaton circuit breaker, main busbar and K terminal. The requirements of the product standard are met.					
Protection against electrical shock and continuity of protective circuits	Protection class 2, fully insulated					
Installation of equipment	The installation of the equipment is the panel builder's responsibility.					
Internal circuits and connections	The installation of internal circuits and connections is the panel builder's responsibility.					
Connections to external conductors	The installation of connections to external conductors is the panel builder's responsibility.					
Insulation properties	Insulation resistance U_i = 1000 V AC/1500 V DC The requirements of the product standard are met.					
Temperature rise limit	See page xx: Radiated heat dissipation of the Ci enclosure The requirements of the product standard are met.					
Short-circuit rating	With Eaton feeder unit/outgoer circuit breaker, copper band and K terminal. Rated conditional short-circuit current I_{cc} = 50 kA.					
60 mm busbar system						
CU copper busbar	20x5	20x10	30x10			
Rated operational current	250 A	400 A	630 A			
Rated short-time withstand current t = 1 s; I_{cw}	15 kA	33 kA	37 kA			
Rated peak withstand current I_{pk}	49 kA	61 kA	78 kA			
Distance between busbar supports	290 mm	290 mm	290 mm			
50 mm busbar system						
Rated operational current	160 A	250 A	400 A	630 A	1000 A	1600 A
Rated short-time withstand current t = 0.1 s; I_{cw}	20 kA	25 kA	35 kA	40 kA	80 kA	80 kA
Rated short-time withstand current t = 1 s; I_{cw}	4 kA	7 kA	14 kA	28 kA	50 kA	50 kA
Rated peak withstand current I_{pk}	40 kA	52.5 kA	73.5 kA	84 kA	105 kA	105 kA
The requirements of the product standard are met.	Distance between busbar supports ≤ 375 mm					
Mechanical functions	The requirements of the product standard are met.					

For design verifications at the component level, please refer to the xEnergy Safety documents provided by Eaton.

xEnergy Safety

General information	
Ambient temperature of basic enclosures	-40 °C to +80 °C
Materials	
Material	
Base	Glass-fiber reinforced polycarbonate
Cover	Non-reinforced polycarbonate
Color	
Base	RAL 7035, light gray
Cover	Transparent and colorless or RAL 7035, light gray
Material properties of basic enclosures	
Electrical	
Creepage resistance to IEC 60112	
Base	KB160, KC175
Cover	KB100, KC200
Surface resistance to IEC 60093	> 1 Ω x 1013
Insulation resistance to IEC 60243-1	30 kV/mm
Thermal	
Continuous thermal stability	
Enclosure	-40 °C to 120 °C
Enclosure bolt	85 °C
Gasket	80 °C
Chemical	
Resistant to	Acids < 10 %, mineral oil, alcohol, fats, saline solutions
Partially resistant to	Acids > 10 %
Non-resistant to	Alkalis, benzene
Atmospheric	
Water absorption to EN ISO 62	0.29 %
Flammability characteristics	
UL	
Base	UL94V1
Cover	UL94V2
Halogen-free	Yes (base and cover)
Modular grid (basic enclosure dimensions)	25 mm (DIN 43660)
Surface protection with metals	Galvanized, passivated
Power distribution enclosures	
Operating and environmental conditions	
Ambient temperature	
Mean value over 24 hours	35 °C
Limit values	-5 °C to +40 °C
Altitude	Max. 2000 m

Insulated individual terminal K50/1

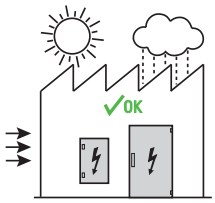
Standards	VDE approval in accordance with DIN EN 60947-7-1 The product complies with the EC's RoHS Directives
Color	RAL 7035 light gray
Materials	
Terminal body	Untreated brass (CuZn39Pb2)
Enclosure	PA 6 (halogen-free)
Screws	Steel, Zn thick-film passivated
Flame resistance	Self-extinguishing
Mechanical values	
Stripping lengths 50 mm^2	16 mm
Hexagon socket head screws	5 mm
Dimensions W x H x D (mm)	24.8 x 40.5 x 60.8
Electrical values	
Rated uninterrupted current	150 A
Rated operational voltage	690 V
Terminal capacity	2 x 50 mm^2
Solid round copper conductor, stranded round copper conductor	2.5 - 50 mm^2
Flexible round copper conductor with ferrule	2.5 - 35 mm^2
Flat copper conductor	3 x 9 x 0.8 mm
For use with	CI, CI-K; T cam switches; P switch-disconnectors; NZM circuit breakers CU-BAND3X9X0.8-BK

Radiated heat dissipation

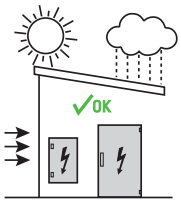
Radiated heat dissipation	Type	Dimensions W x H x D mm	Heat dissipation W
Max. radiated heat dissipation of a Ci insulated enclosure in separate mounting, ΔT = 45 K.	CI23...-125	187.5 x 250 x 150	32
	CI23...-150	187.5 x 250 x 175	36
	CI43...-125	250 x 375 x 150	46
	CI43...-150	375 x 250 x 175	50
	CI43...-200	375 x 250 x 225	56
	CI44...-125	375 x 375 x 150	61
	CI44...-150	375 x 375 x 175	68
	CI44...-200	375 x 375 x 225	72
	CI44...-250	375 x 375 x 275	78
	CI45...-200	375 x 500 x 225	95
	CI45...-250	375 x 500 x 300	115
	CI48...-200	375 x 750 x 225	128
	CI48...-250	375 x 750 x 275	141
Max. radiated heat dissipation of a Ci insulated enclosure when used in a distribution board, as specified in IEC/EN 61439-2 bei ΔT = 45 K.	CI23...-125	187.5 x 250 x 150	16
	CI23...-150	187.5 x 250 x 175	25
	CI43...-125	375 x 375 x 150	42
	CI43...-150	375 x 250 x 175	42
	CI43...-200	375 x 250 x 225	42
	CI44...-125	375 x 375 x 150	53
	CI44...-150	375 x 375 x 175	54
	CI44...-200	375 x 375 x 225	54
	CI44...-250	375 x 375 x 275	54
	CI45...-200	375 x 500 x 225	67
	CI45...-250	375 x 500 x 300	97
	CI48...-200	375 x 750 x 225	93
	CI48...-250	375 x 750 x 275	93

Notes • If there is no information concerning the load conditions of the individual circuits, a rated diversity factor should be selected, as defined in IEC/EN 61439.
• Alternatively, the "Eaton Temperature Calculator" software tool can be used to calculate the temperature rise values for switchgear assemblies and basic enclosures.

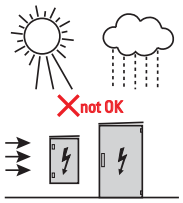
Installation site conditions



Indoor installation
The enclosure must be continuously protected against sunlight and climatic conditions such as rain and wind.



Protected outdoor installation
The enclosure must be continuously protected against sunlight and climatic conditions such as rain and wind.



Unprotected outdoor installation
The enclosure is not intended for unprotected outdoor installation.

Cable glands/grommets

	KT-M...	V-M...	MFD...	MFV...	KT-M25F	STB-M...F
Materials	Polyethylene and thermoplastic elastomer, halogen-free	Polyamide, halogen-free	Thermoplastic elastomer	Polyamide	PVC and polyethylene	Glass-fiber reinforced polyamide with flame protection, self-extinguishing
Color	Gray, RAL 7035	Gray, RAL 7035	Black, similar to RAL 9005	Red	Grey, RAL 7032 + white	Gray, RAL 7035
Degree of protection	up to IP66	IP68 up to 5 bar (30 min.)	IP66	-	up to IP50	IP56, may only be mounted below the enclosure or on the enclosure sides
Chemical resistance	Resistant to: Alcohol, animal and vegetable fats, weak alkalis, weak acids, water	Resistant to: Acetone, gasoline, benzene, diesel oil, grease, oils, paint solvents and varnishes	-	-	Resistant to: Diluted non-oxidizing acids, alkalis and salts, alcohols, aromatic and halogenated hydrocarbons, wetting agents	Resistant to: Acetone, gasoline, benzene, diesel oil, grease, oils, paint solvents and varnishes
Danger of stress fracture	Relatively high	Low	-	-	Relatively high	Low
Temperature resistance	-40 °C to 80 °C, for a short time up to approx. 100 °C	-20 °C to 100 °C, for a short time up to approx. 120 °C	-20 °C to 100 °C, for a short time up to approx. 120 °C	-25 °C to 80 °C, for a short time up to approx. 120 °C	0 °C to 60 °C, for a short time up to approx. 80 °C	40 °C to 100 °C, for a short time up to approx. 150 °C
Flame resistance	-	Glow wire test 750 °C in accordance with EN 60695-2-11	-	-	-	Glow wire test 750 °C in accordance with EN 60695-2-11
Flammability to UL94	-	V2	-	-	-	-

Laminated and insulated copper band

	CU-BAND…
Standards	EN 61439-2 (max. 1000 V AC and 1500 V DC) UL 758 (max. 600 V AC and 750 V DC)
Insulating material	Heat resistant up to +105 °C Self-extinguishing in accordance with UL 94 V0 Dielectric strength 20 kV/mm
Copper	E-CU, tinned
Operating temperature	-30 °C / +105 °C
Length	2 m
Colors	black (BK), blue (BU), green/yellow (GNYE)
UL File No.	E248096. UL report applies to both US and Canada

Continuous currents to DIN 43671 for E-Cu busbars in indoor installations at an air temperature of 35 °C around the conductor and a busbar temperature of max. X °C

			Continuous current AC				
Rated current range [A]	**Dimensions**	**Cross-section [mm²]**	**X = 65 °C**	**X = 85 °C**	**X = 105 °C**	**Classification**	**Color**
	Number of layers x width x thickness of one layer [mm]		**ΔT = 30 K**	**ΔT = 50 K**	**ΔT = 70 K**		
100	3 x 9 x 0.8	21.6	98 A	**130 A**	152 A	CU-BAND3X9X0.8-…	BK, BU, GNYE
160	6 x 9 x 0.8	43.2	147 A	**196 A**	228 A	CU-BAND6X9X0.8-...	BK, BU, GNYE
200	9 x 9 x 0.8	64.8	179 A	**238 A**	277 A	CU-BAND9X9X0.8-...	BK, BU, GNYE
250	6 x 16 x 0.8	74.4	252 A	**335 A**	391 A	CU-BAND6X16X0.8-...	BK, BU, GNYE
400	10 x 16 x 0.8	128	330 A	**439 A**	512 A	CU-BAND10X16X0.8-...	BK, BU, GNYE
400	5 x 24 x 1	120	369 A	**491 A**	572 A	CU-BAND5X24X1-...	BK
630	11 x 21 x 1	231	563 A	**749 A**	873 A	CU-BAND11X21X1-...	BK, BU, GNYE
630	8 x 24 x 1	192	483 A	**642 A**	749 A	CU-BAND8X24X1-...	BK
630	10 x 24 x 1	240	559 A	**743 A**	866 A	CU-BAND10X24X1-...	BK
630	5 x 32 x 1	160	477 A	**634 A**	739 A	CU-BAND5X32X1-...	BK
800	10 x 32 x 1	320	721 A	**959 A**	1118 A	CU-BAND10X32X1-...	BK
1000	10 x 40 x 1	400	850 A	**1131 A**	1318 A	CU-BAND10X40X1-...	BK
1250	10 x 50 x 1	500	1020 A	**1357 A**	1581 A	CU-BAND10X50X1-...	BK
1600	10 x 80 x 1	800	1500 A	**1995 A**	2325 A	CU-BAND10X80X1-...	BK

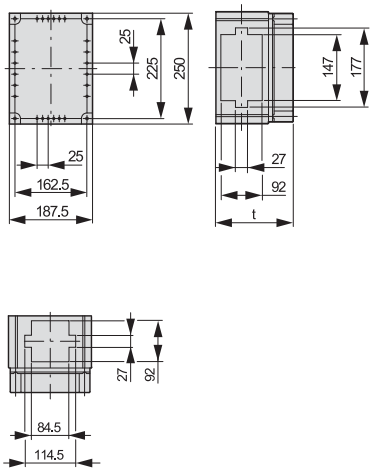
The rated currents and wiring instructions of the connected devices (e.g. terminal capacity of least … mm²) must be observed.
Multiplication factor of 1.72 if 2 x CU-BAND are used in parallel.
Multiplication factor of 2.25 if 3 x CU-BAND are used in parallel, in accordance with DIN 43671.

Insulated enclosures

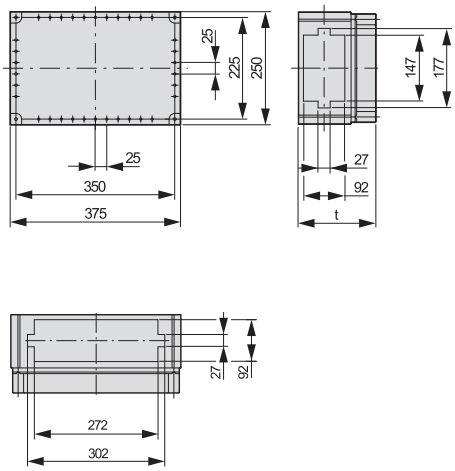
CI23...
RS.../I23...

CI43...
KST43...
ZG/I43E-G-...
RS.../I43...

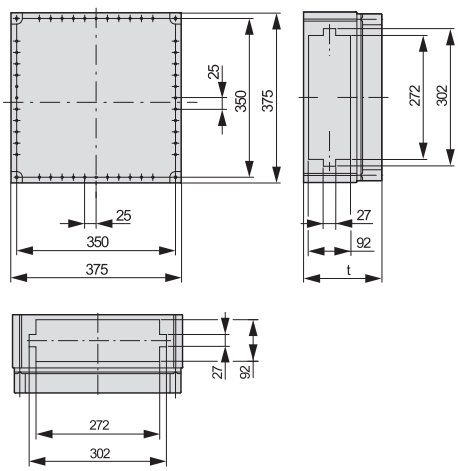
CI44...
KST44...
SKA...-I44, ZG/I44E-...



t = 150/175 mm

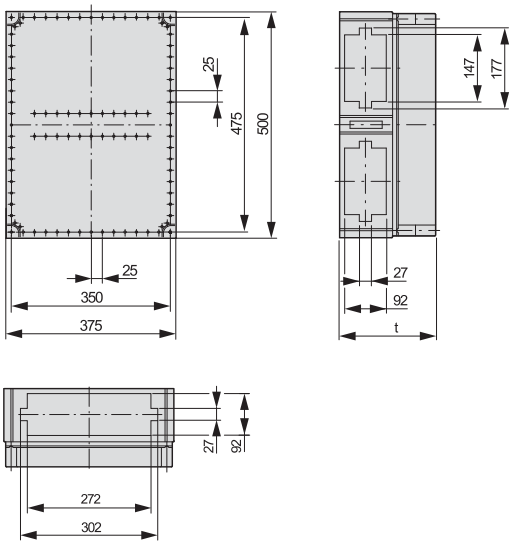


t = 150/175/225 mm



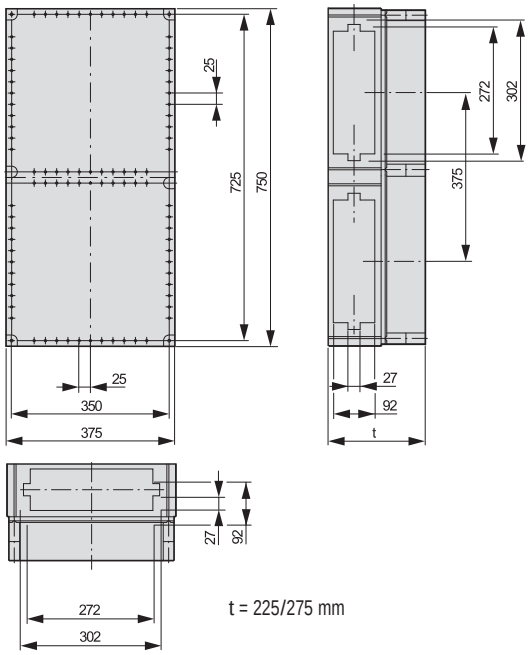
t = 150/175/225/275 mm

CI45...
ZG/I45E-...



t = 225 mm = CI45-200
t = 300 mm = CI45-250

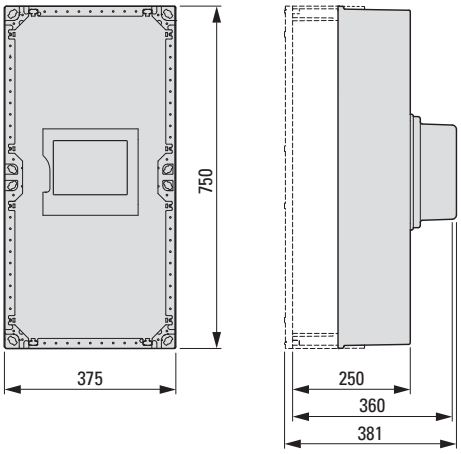
CI48...
KST48...
ZG/I48-...



t = 225/275 mm

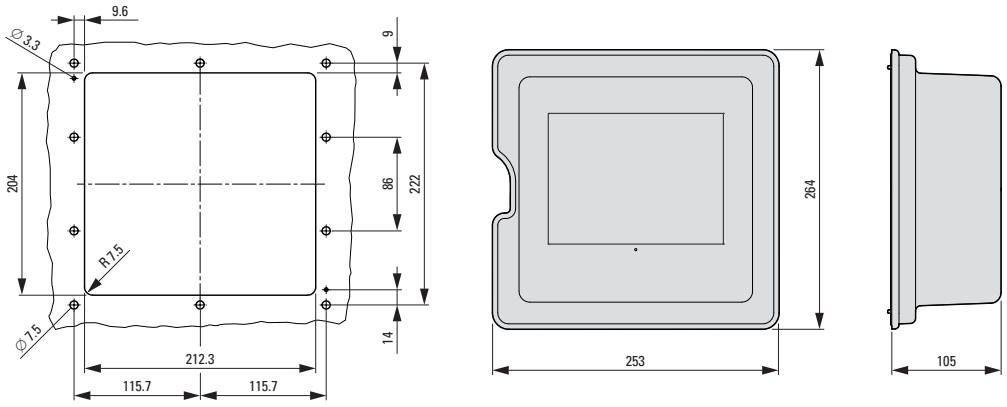
Insulated enclosures

D250-CI48-NZM-RTR



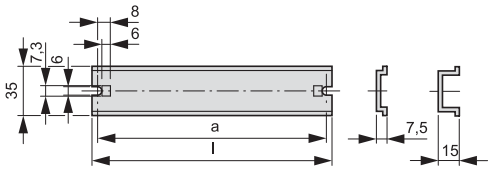
Enclosure shroud

NZM-RTR



Mounting rails

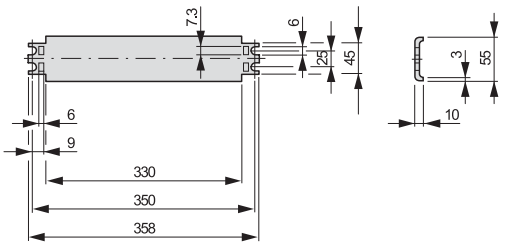
CL...



Type	l	a
CL2	170.5	162.5
CL3	233	225
CL4	358	350
CL2-15	170.5	162.5
CL3-15	233	225
CL4-15	358	350

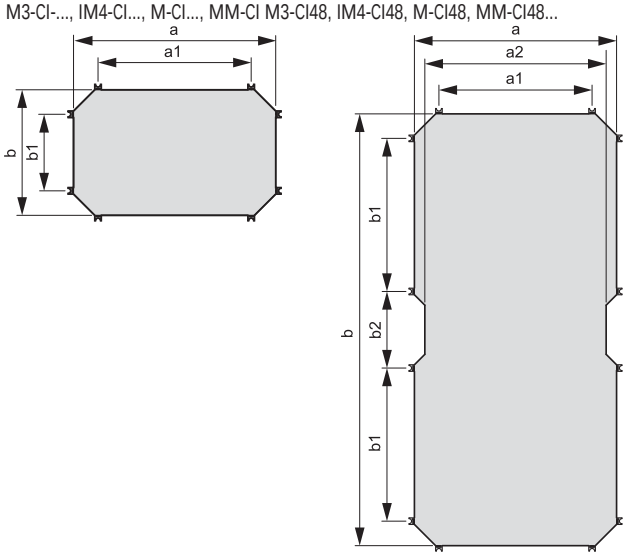
Module mounting rail

ML-4-CI



Mounting plates

M3-CI-..., IM4-CI..., M-CI..., MM-CI M3-CI48, IM4-CI48, M-CI48, MM-CI48...

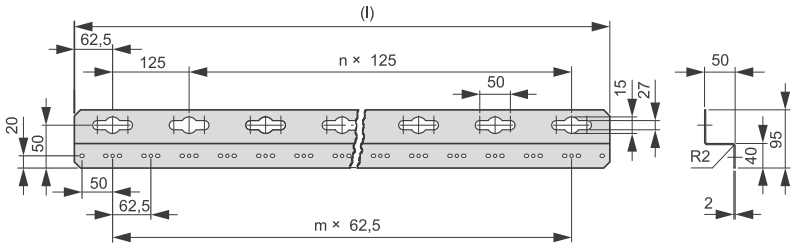


Type	a	b	a1	b1	a2	b2
M3-CI23, IM4-CI23, MM-CI	142.5	205	62.5	125	-	-
M3-CI43, IM4-CI43, MM-CI	330	205	250	125	-	-
M3-CI44, IM4-CI44, MM-CI	330	330	250	250	-	-
M3-CI45, MM-CI	330	455	250	375	-	-
M3-CI48, IM4-CI48, MM-CI	330	705	250	250	296	125

M3-... mounting plate: 3 mm thick
IM4-... insulating mounting plate: 4 mm thick
M-CI... mounting plate: 1.5-2.0 mm thick
micro-perforated mounting plate: 1.5 mm thick

Wall-fixing brackets

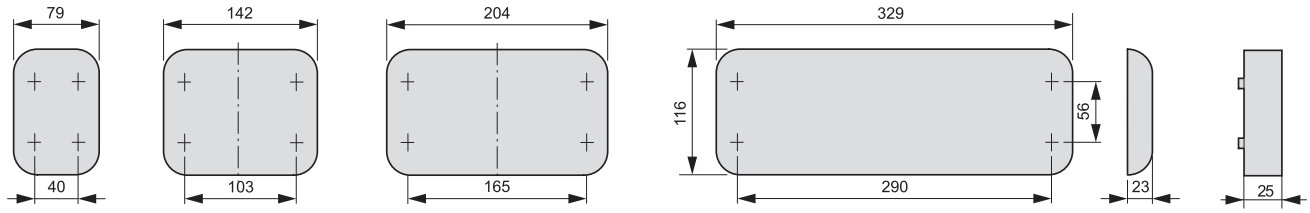
W.../...



Type	l	n	m
W4/8-CI	625	4	8
W6/8-CI	875	6	12
W8/16-CI	1125	8	16
W10/20-CI	1375	10	20
W16/32-CI	2125	16	32

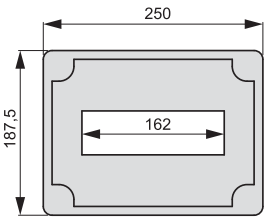
Flanges, spacers

FL1-...
FL2-...
FL3-...
ZRF3
FL4...
ZRF4
FL...
ZRF3
ZRF4

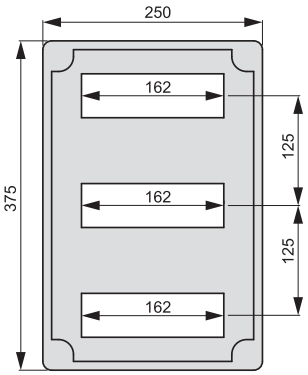


MCB enclosures, MCB distribution board enclosures

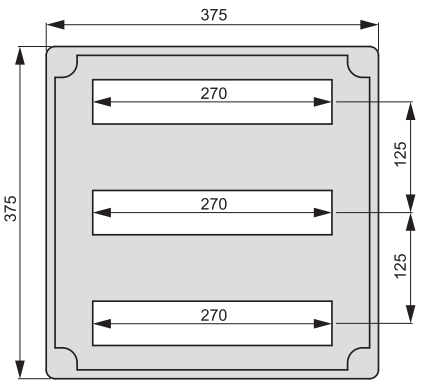
AE/I23
AV/I23 identical dimensions, but rotated by 90°



AE/I43
AV/I43 identical dimensions, but rotated by 90°

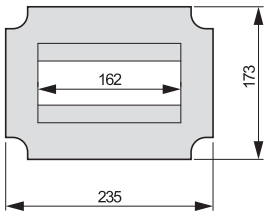


AE/I44
AV/I44 identical dimensions, but rotated by 90°

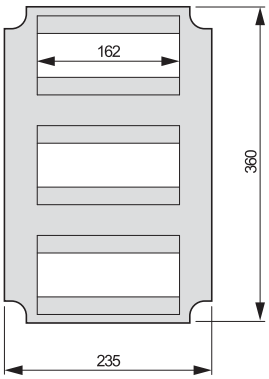


Protective shrouds against accidental contact

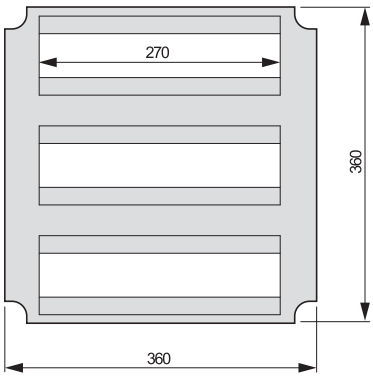
GA-0/I23



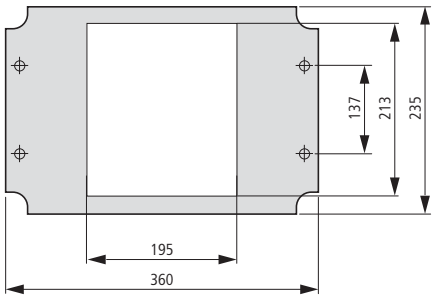
GA-0/I43



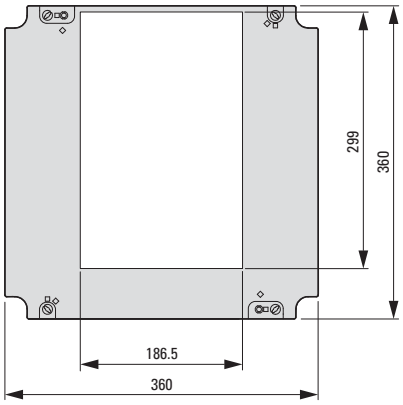
GA-0/I44



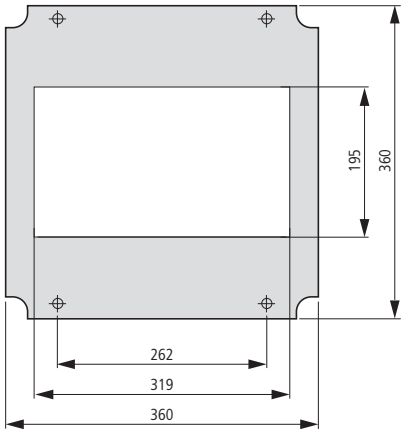
GA-43-S60-XNH00/D02



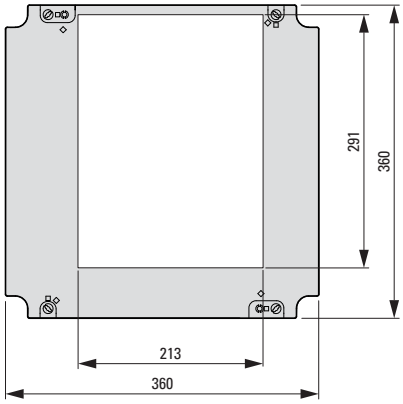
GA-44-S60-XNH1



GA-44-S60-XNH00/D02

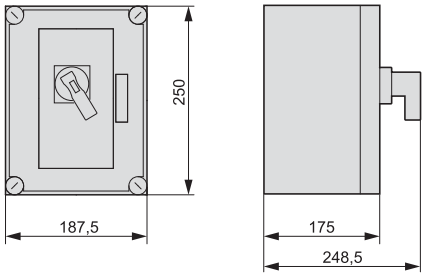


GA-44-S60-XNH2

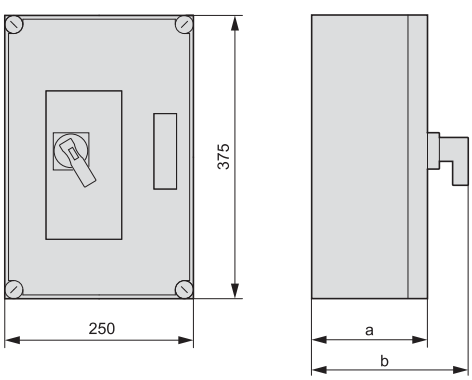


Prepared MCCB enclosures

MCCB1-63/I23E-150



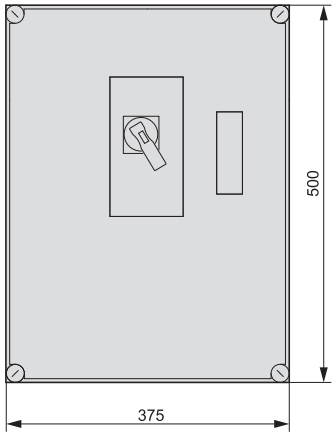
MCCB.../I43E-...

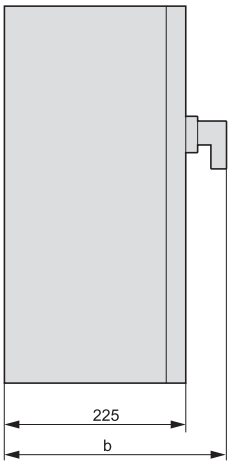


Type	a	b
MCCB1-125/I43E-150	175	248.5
MCCB1-160/I43E-200	225	298.5
MCCB2-200/I43E-200	225	298.5

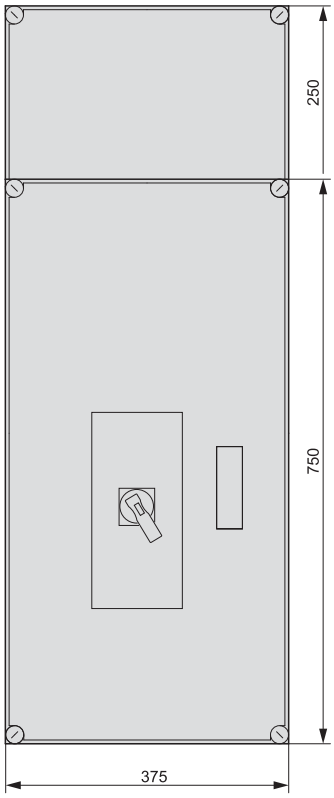
Prepared MCCB enclosures

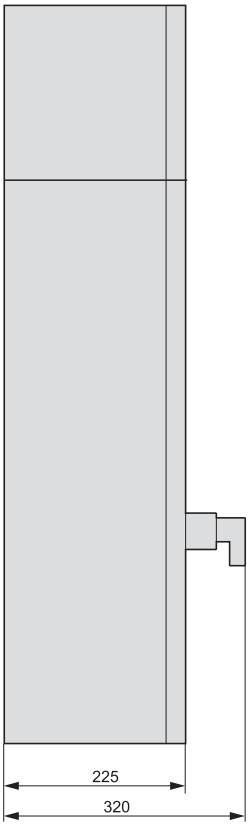
MCCB.../I45E-200





MCCB3-630/I48/I43E-200

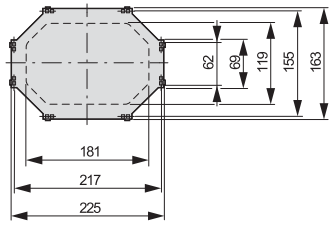




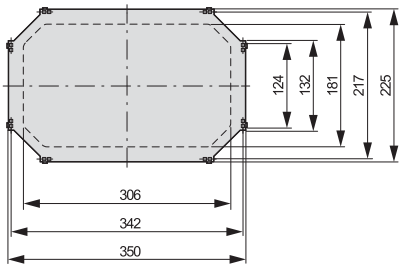
Type	b
MCCB2-250/I45E-200	298.5
MCCB3-400/I45E-200	320

Doors

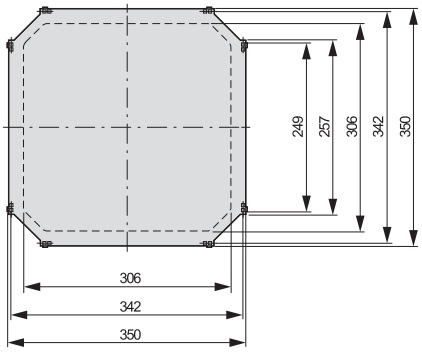
T-CI23



T-CI43

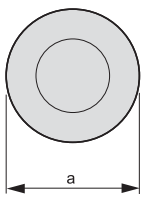


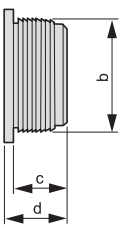
T-CI44



Metric diaphragm grommets

KT-M...

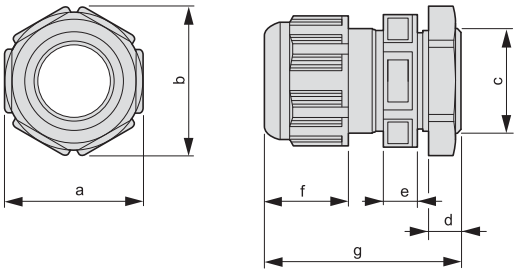




Type	a	b	c	d
KT-M16	21.2	16	9.5	11
KT-M20	25.2	20	9.5	11
KT-M25	30.2	25	9.5	11
KT-M32	37.2	32	9.5	11

Metric cable glands

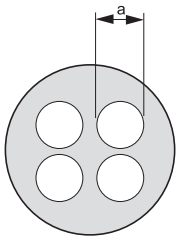
V-M...



Type	a	b	c	d	e	f	g
V-M12	16	18	M12x1.5	9	5.3	14	29 - 34
V-M16	20	22	M16x1.5	9	5.3	16.5	31 - 37
V-M20	24	27	M20x1.5	10	6.1	20	36 - 45
V-M25	29	32	M25x1.5	10	8.1	20	38 - 47
V-M32	36	40	M32x1.5	12	10.1	20	42 - 51
V-M40	46	51	M40x1.5	12	11.1	29	52 - 65
V-M50	55	61	M50x1.5	14	12.1	33	59 - 72
V-M63	68	75	M63x1.5	15	12.1	36.5	64 - 78

Multiple gaskets

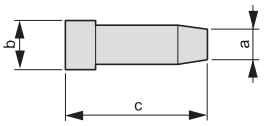
MFD...



Type	a
MFD25	5.0 - 6.0
MFD32	3.5 - 7.0

Stoppers

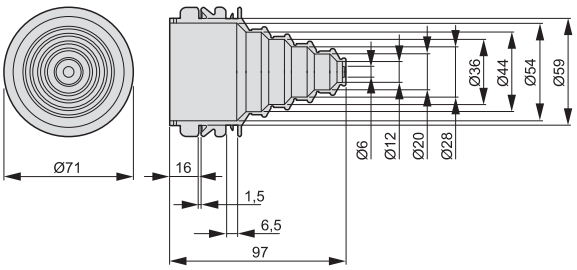
MFV...



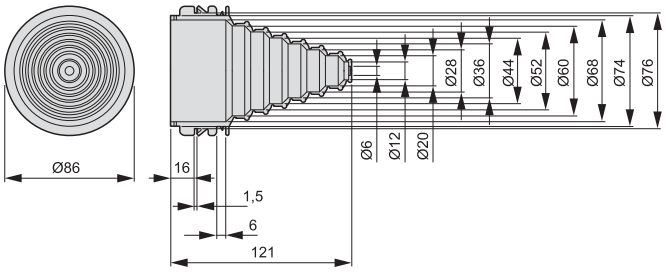
Type	a	b	c
MFV25-6	5.5	6	20
MFV32-7	7	8	20

Stepped cable grommets

KT3

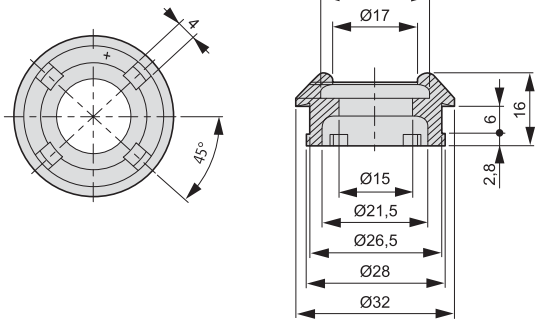


KT4

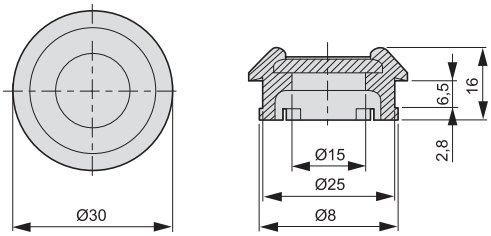


Pressure compensating grommets

KT-M25F

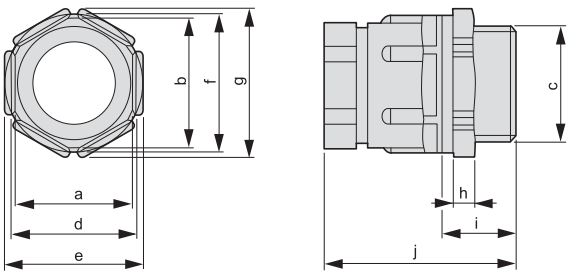


KT16F



Ventilation cable glands

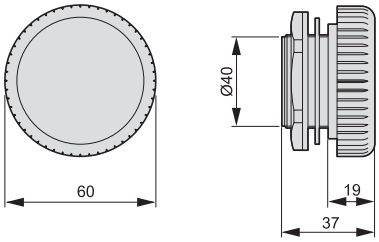
STB-M...F



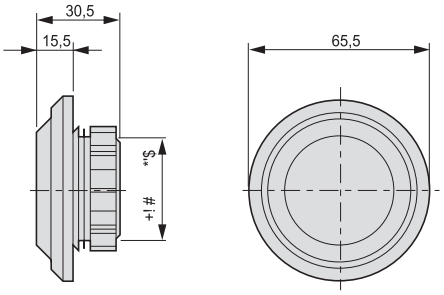
Type	c	h	i	j	g	f	b	a	d	e
STB-M20F	20	5	15	40	29	27	23	21	24	27
STB-M25F	25	6	15	45	35.5	35.5	33.4	30	33	32

Pressure compensating plugs

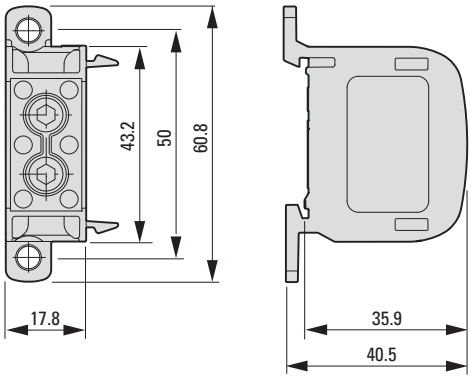
DAV-M40



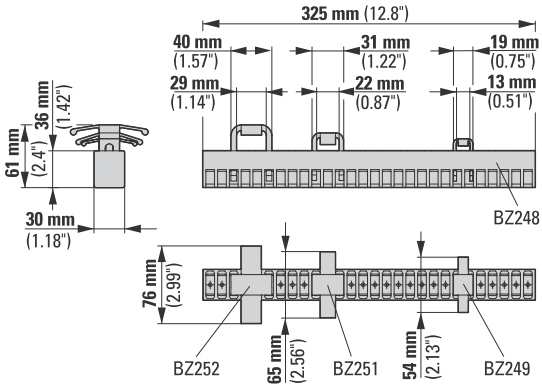
DA412



Insulated individual terminal K50/1



Insulated conductor supports for copper band



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Eaton Partner program

The key to your success with xEnergy switchboard systems is the Eaton Partner program. Joining the program is well worth it: Not only will you receive a wealth of insider information, you will also be the first to get informed about facts and innovations regarding xEnergy.

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- **Software downloads**
- **Installation instructions**
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xEnergy Light

Power distribution board and control panel up to 1600 A

The proven xEnergy Light cabinet system is suitable for a wide range of applications. Thanks to its incredible versatility, xEnergy Light can be used both as a power distribution board and as a control panel in industrial applications and in functional buildings.

The robust 2 mm thick, multiple-folded sheet-steel frame provides the stability required for any application, in stand-alone enclosures as well as in add-on enclosures which are common in power distribution.

Flat-pack orders allow for space-saving and therefore cost-efficient deliveries. xEnergy Light can also be ordered as a pre-assembled cabinet. xEnergy Light meets of course the requirements of the latest IEC 61439-1/3 and IEC/EN 62208 standards.

Benefits:

- Pre-assembled or flat-pack
- Wide range of enclosure sizes to choose from
- Easy to handle
- Robust frame construction
- Flexible and easy to mount
- Same screw head throughout the system
- Corrosion-resistant powder coating
- Straight-forward industrial design

Features:

- IEC 61439 and IEC/EN 62208
- Combination options with different installation systems such as EP, xEnergy Basic, SASY60i,..
- Degree of protection IP40 and IP55
- Stand-alone cabinet or add-on system
- Foam-shaped door sealings
- Consistent system up to 1600 A

xEnergy Basic

Wall-mounted and floor-standing enclosures for electrical distribution up to 630 A

The smallest distribution board of our xEnergy family is the most flexible and variable system in the entire range. The diversity of different types and sizes makes the use in almost every application possible. Thanks to its certification as low-voltage distribution board intended to be operated by ordinary persons acc.to IEC/EN 61439-1/3 as well as to IEC/EN 62208, the xEnergy Basic is the first choice for electrical distribution in residential and functional buildings.

Benefits:

- Wide range of products
- Pre-assembled or flat-pack
- The interior is completely flexible
- Large number of accessories
- Compatible with other products

Features:

- Sheet steel enclosure polyester powder-coated (grey or white)
- Floor-standing, surface-mounted or flush-mounted version
- Three different ways of assembling the interior fitting
- Degree of protection IP30, IP43 or IP54
- Impact resistance IK07
- Protection class I

xEnergy Main: Controls systematically. Saves in three ways. Thinks ahead.

With Eaton, you have a business partner who supports your expertise in every respect. With Eaton xEnergy, you have a switchboard system that provides you with a wide variety of options for reliable power distribution, motor control, automation and specific solutions to meet your customers' needs.

The xEnergy system thinks ahead, it is designed to meet constantly increasing requirements. Designed to provide maximum efficiency in implementing your specific project needs, Eaton xEnergy provides the optimum solution for low-voltage switchgear and controlgear assemblies up to 6300 A.

Every single functional module in this switchgear assembly is perfectly prepared and systematically planned – from the switchgear and mounting system technology to the enclosures and design software tools.

Systematic switching = Shaping the future

xEnergy is a technically sophisticated and cost-effective combination of the enclosure, switchgear, controlgear and protective devices, and mounting systems to provide the Panelbuilder with the equipment to optimally switch and control power, in other words to dominate it. The system is modular and offers many smart combination options to allow you to meet the most exacting of project requirements xEnergy provides a wide range of benefits to the Panelbuilder and the end-customer.

These benefits also include the optimal added value in your own panel building business and the certainty that – with Eaton – you will always be building state-of-the-art and safety-tested panels.
They will also help you to save time, money and space.

MODAN®: Flexible Solutions for Power Distribution and Motor Control

The power distribution systems MODAN® offer flexible solutions for all your requirements up to 6300 A. Function units that can be fitted to individual requirements provide the basis for creating flexible solutions.

The individual sections can be combined to your specifications as required:

- Feeders and outgoers – MODAN® P
- Withdrawable units – MODAN® W
- Removable compartments – MODAN® R
- Fuse-switch units – MODAN® R
- and for individual configurations MODAN® G

The sections are available with protection to IP 30/31, IP 40/41 or IP 54. You can choose between cable and busbar trunking connection systems which can be connected from the top or bottom. They are naturally available for all network types.

Our new withdrawable units technology now also enables us to meet the requirements of the respective degree of protection while the drawers are in test and disconnected position.

Parallel busbar routing without a lateral overlap allows the exchange of individual sections in the assembly. Your system can be expanded easily at any time. Two independent main busbar systems offer a wide range of different circuit options.

Advantages:

- **Latest drawer units technology complying with the degree of protection in operating, test and disconnected position of the drawers**
- **Design-verified and documented according to IEC 61439-2**
- **Personal safety and equipment protection according to TR 61641**
- **Optionally available with the Arcon active arc-fault protection system for highest personal safety and equipment protection**
- **Permanent temperature monitoring of the system thanks to Eaton‘s Diagnose**
- **Available worldwide thanks to license partners**
- **Comprehensive information material is available**

Applications:

- **Data center**
- **Chemical industry**
- **Automotive industry**
- **Oil and gas industry**
- **Glass and aluminum industry**
- **Hospitals**
- **Paper industry**
- **Commercial buildings**
- **Power plant technology**
- **Sewage treatment plants**

Eaton is a power management company with 2018 sales of $21.6 billion. We provide energy-efficient solutions that help our customers effectively manage electrical, hydraulic and mechanical power more efficiently, safely and sustainably. Eaton is dedicated to improving the quality of life and the environment through the use of power management technologies and services. Eaton has approximately 99,000 employees and sells products to customers in more than 175 countries.

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