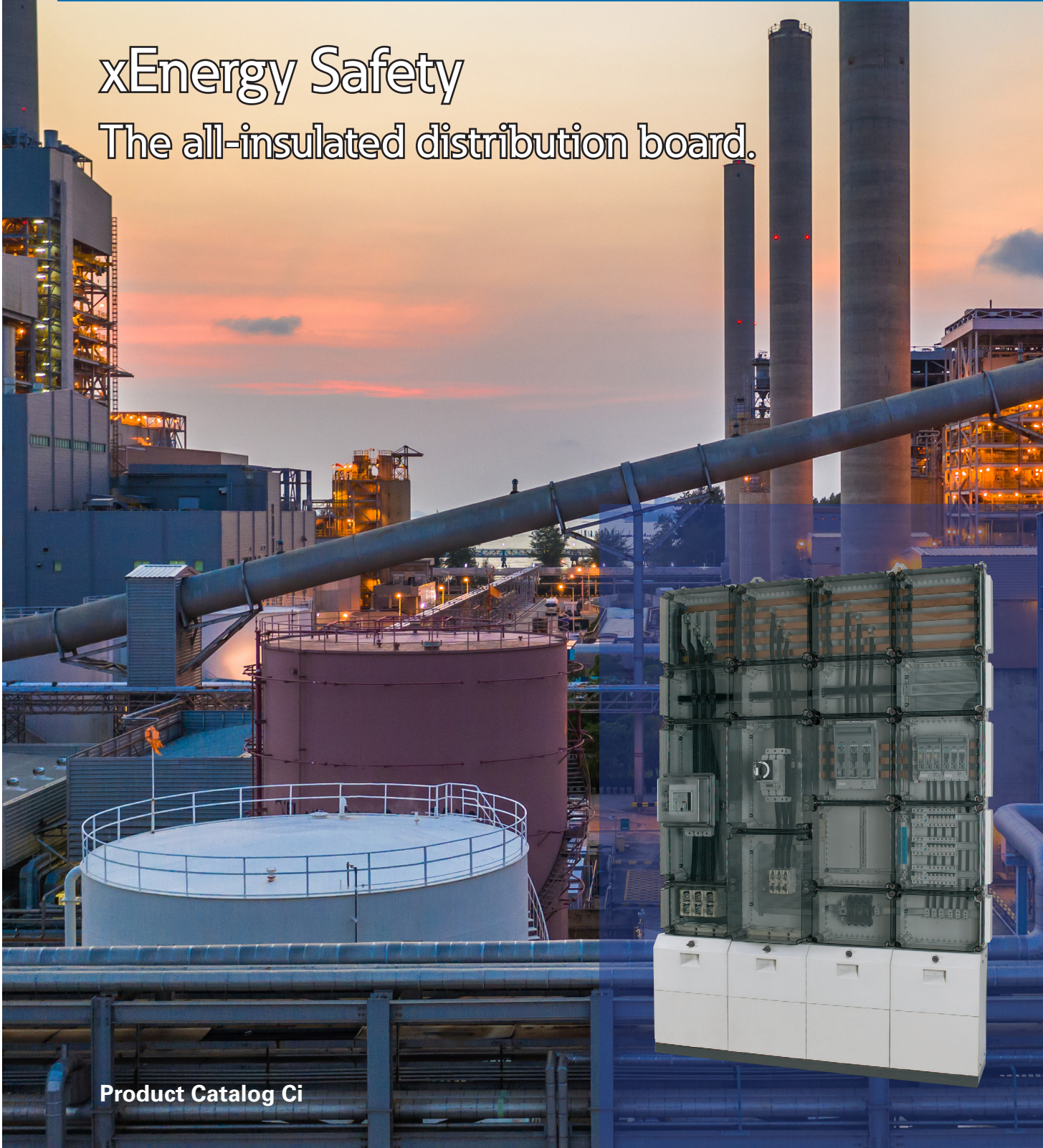


**Eaton** – Safe power distribution able to  
meet the most stringent requirements.

Eaton.com

# xEnergy Safety

## The all-insulated distribution board.



Product Catalog Ci

**EATON**

*Powering Business Worldwide*



We make what matters work.\*

\* At Eaton, we believe that power is a fundamental part of just about everything people do. That's why we're dedicated to helping our customers find new ways to manage electrical, hydraulic and mechanical power more efficiently, safely and sustainably. To improve people's lives, the communities where we live and work, and the planet our future generations depend upon. Because this is what really matters. And we're here to make sure it works.

To learn more go to: [Eaton.com/whatmatters](http://Eaton.com/whatmatters)



We make what matters work.

Ci insulated enclosures

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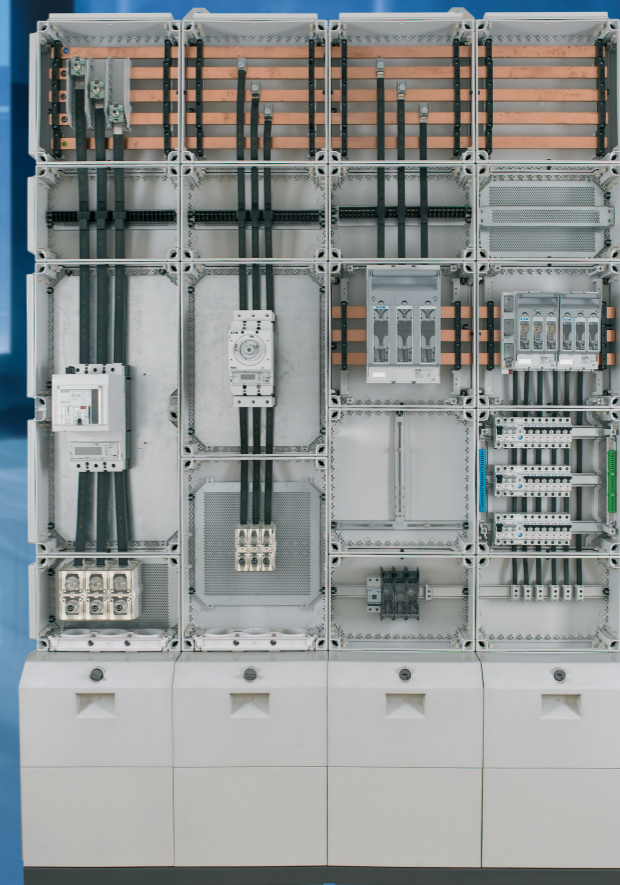
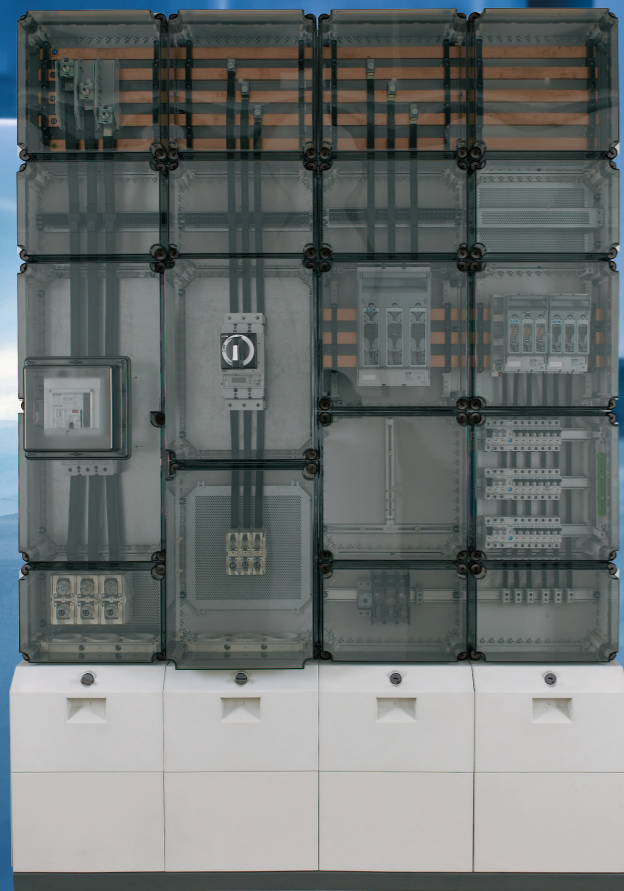


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## The all-insulated Ci distribution enclosure.

**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 bus-bars.

**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.



### In extremely polluted and harsh environments such as:

- Steel works
- Foundries
- Mining
- Woodworking industry
- Metalworking industry
- etc.

## 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 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.

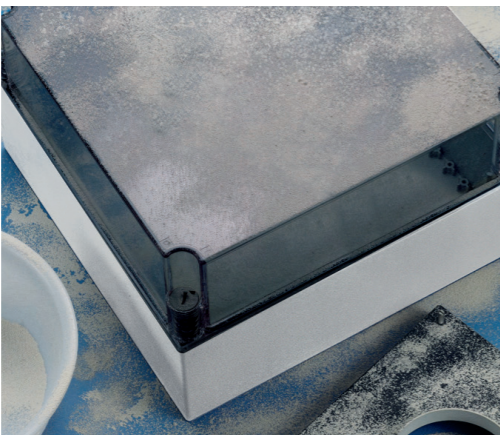
Enclosure made of high-quality polycarbonate – IP65 degree of protection

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

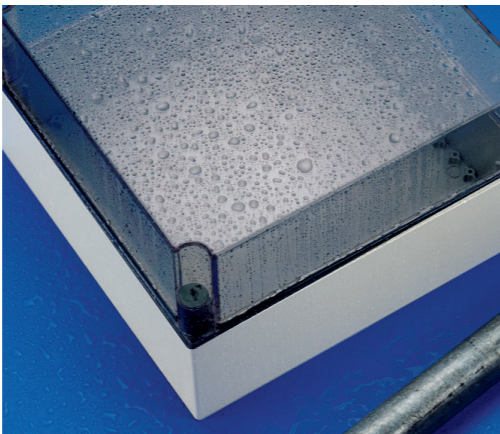
Total insulation offers a maximum of safety as it is a protective feature that is always "active" and does not wear out.

**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.



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

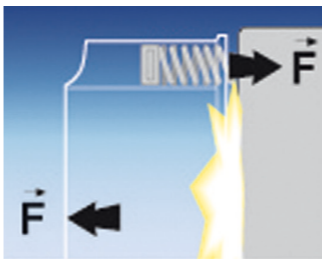
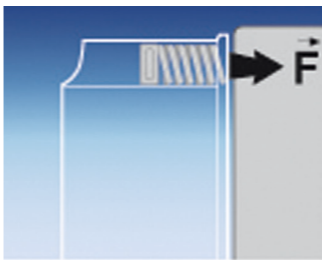
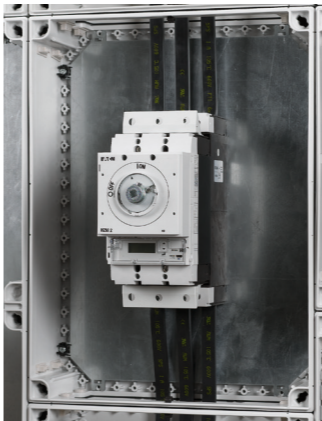


Resistant to acrid smoke and caustic substances

- Protection against 6 detrimental factors or hazards
- Dust
  - Moisture
  - Water
  - Caustic substances
  - Mechanical impacts
  - Extreme short-circuits

**Maximum safety thanks to pressure relief**

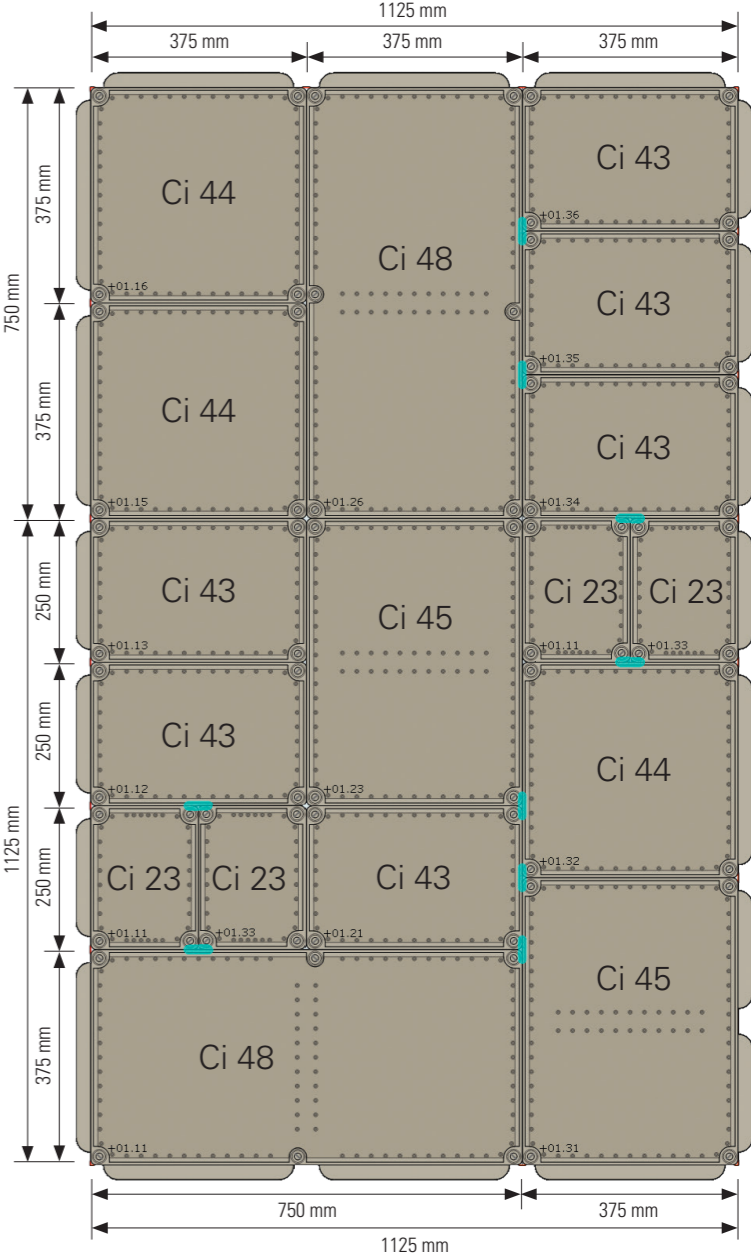
The cover resting on 4 spring-loaded fittings ensures pressure relief in case of a switching-arc.



**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

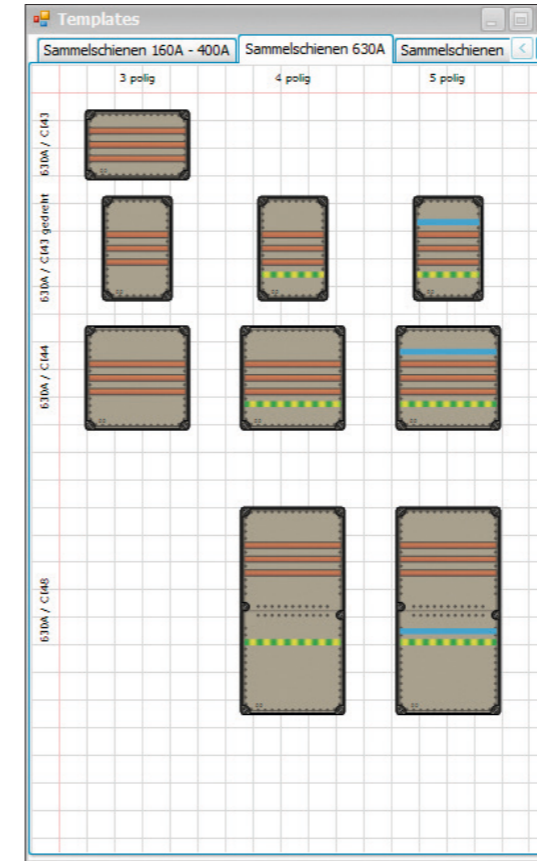
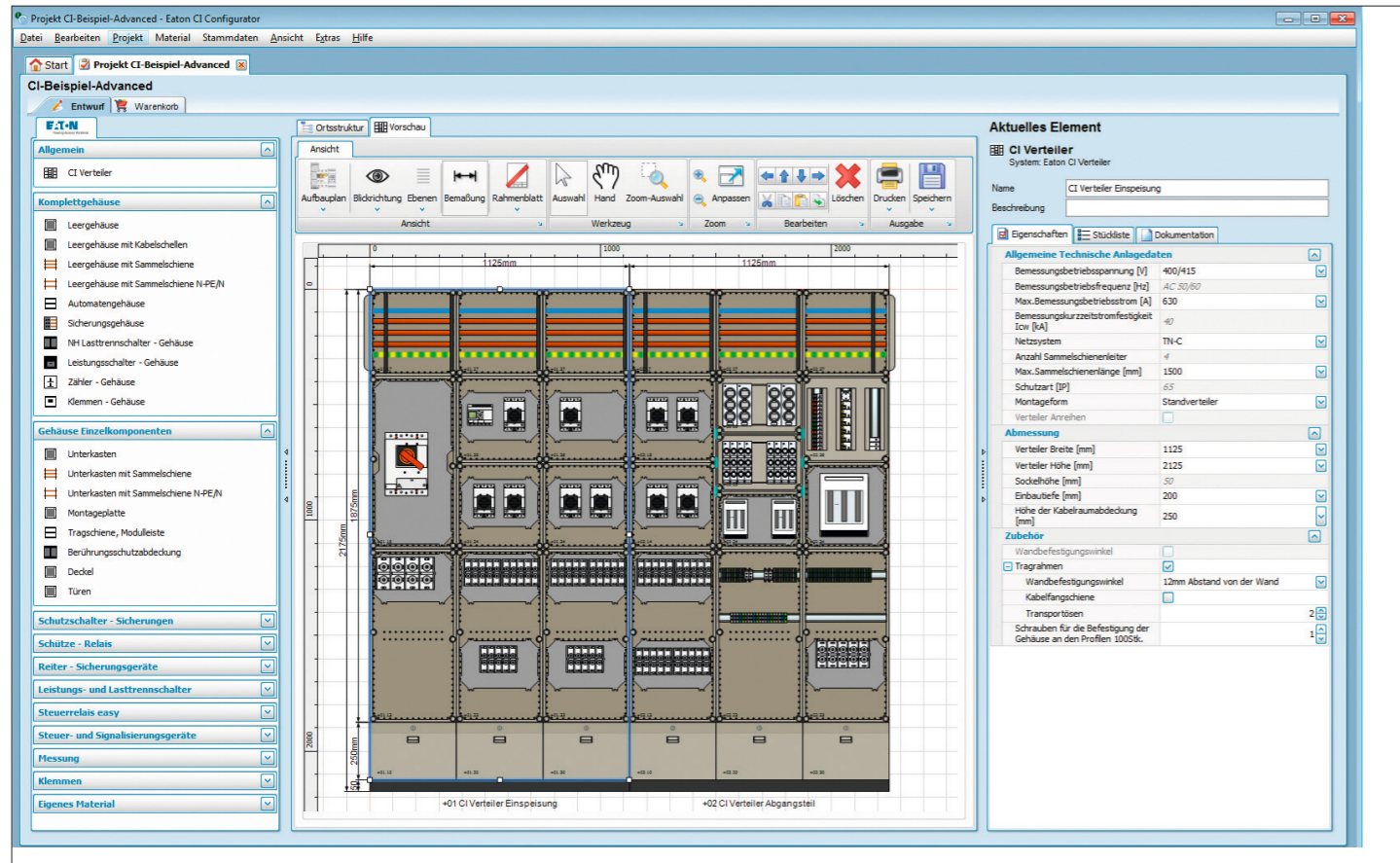
smaller enclosures to larger ones without any problem. The Eaton xEnergy Safety Configurator makes it incredibly easy to configure a system because it automatically adds the correct number of flange spreaders to your project.



**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.



Element	BMK	Ort	Beschreibung
Leistungsschalter			
CI Verteiler		+01	
NH Lasttrennschalter - Gehäuse (2)	F9	+01.15	Lager1 bis 3
NH Lasttrennschalter - Gehäuse (3)	F10	+01.25	Rampe
NH Lasttrennschalter - Gehäuse (4)	F11	+01.13	Rolltor

Identification of equipment

Element	BMK	Ort	Beschreibung
CI Prüferverteiler 1600A		+01	HS=1600A, Einspeisung NZM4, Abg...
CI Verteiler Abgänge NZM1 und NZM2		+01	
Leergehäuse mit Sammelschiene (8)		+01.14	
Leergehäuse mit Sammelschiene (3)		+01.17	
Leergehäuse mit Sammelschiene (4)		+01.24	
Leergehäuse mit Sammelschiene (9)		+01.18	
Leergehäuse mit Sammelschiene N-PE/N (2)		+01.18	
Leergehäuse (2)		+01.25	
Montageplatte (5)		+01.25.10	
Leergehäuse (3)		+01.27	
Montageplatte (2)		+01.27.10	
Leergehäuse (4)		+01.28	
Montageplatte (3)		+01.28.10	
Leergehäuse (5)		+01.22	
Montageplatte (4)		+01.22.10	
Leergehäuse mit Kabelschellen (2)		+01.34	
Montageplatte (6)		+01.34.10	

Easy navigation and modification of equipment thanks to the Explorer

Element	BMK	Ort	Beschreibung
Leergehäuse (2)		+01.25	
Leergehäuse (3)		+01.27	
Leergehäuse (4)		+01.28	
Leergehäuse (5)		+01.22	
Leergehäuse mit Kabelschellen (2)		+01.34	
Montageplatte (6)		+01.34.10	

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

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

## 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.

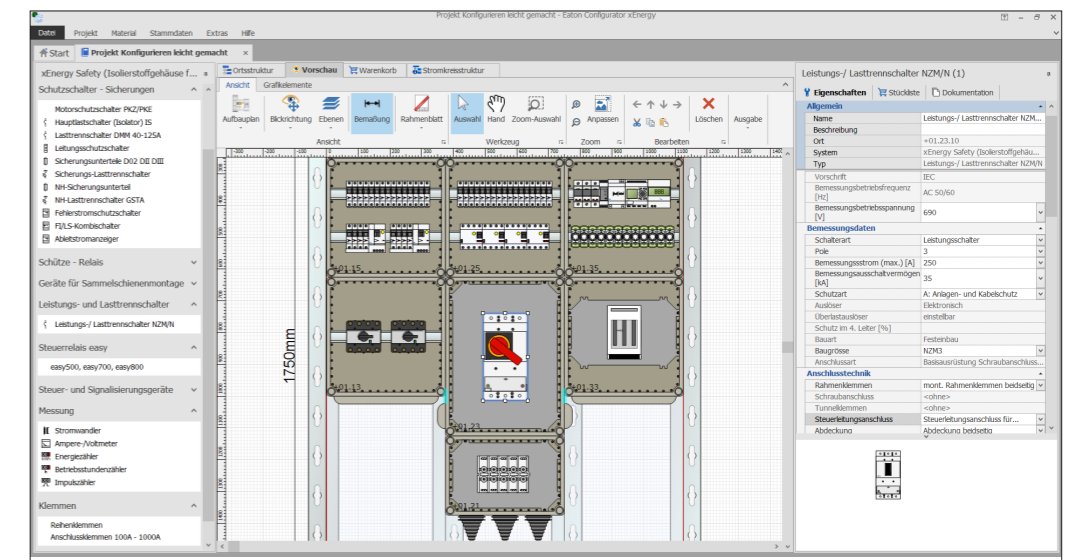
Configurable devices are, among others, digital RCDs, MCBs, load disconnectors, circuit breakers, fuse devices, motor protective devices, contactors, relays, transformers, measuring devices and connection terminals.

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](http://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, e.g. weight, can be exported

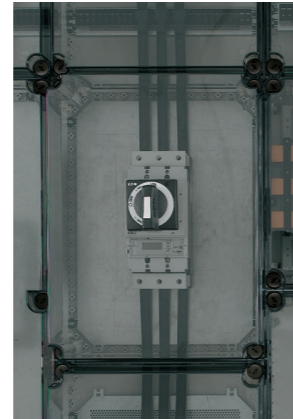


# Perfection in every detail.



## 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.



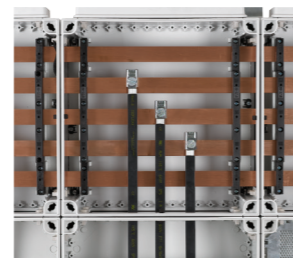
## 2. Closure bolt of the cover

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.



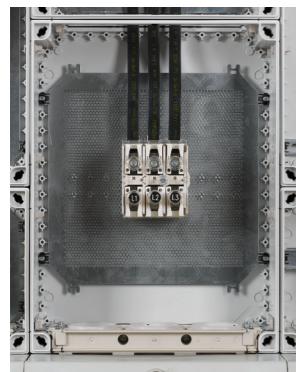
## 3. New enclosure sizes

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.



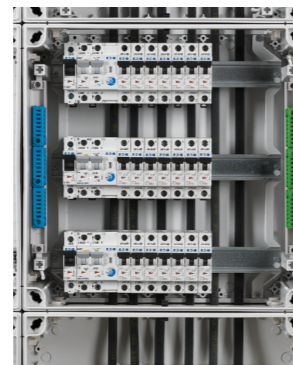
## 4. Busbar system SASY 60

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.



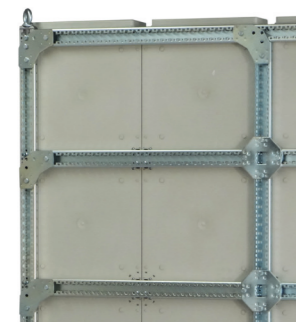
## 5. Micro-perforated mounting plates

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 mm<sup>2</sup> thanks to modern plug-in technology.



## 7. Stable profiles of the carrier frame

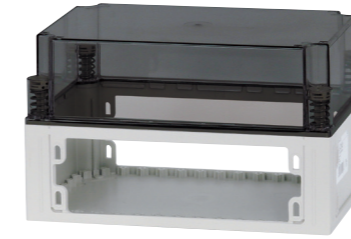
CC-profiles in a stable and corrosion-resistant finish always ensure a safe fit of the system, whether it is a wall-mounted distribution enclosure, a floor-based or a floor-standing enclosure with a cable area casing and a base plinth.



## 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.



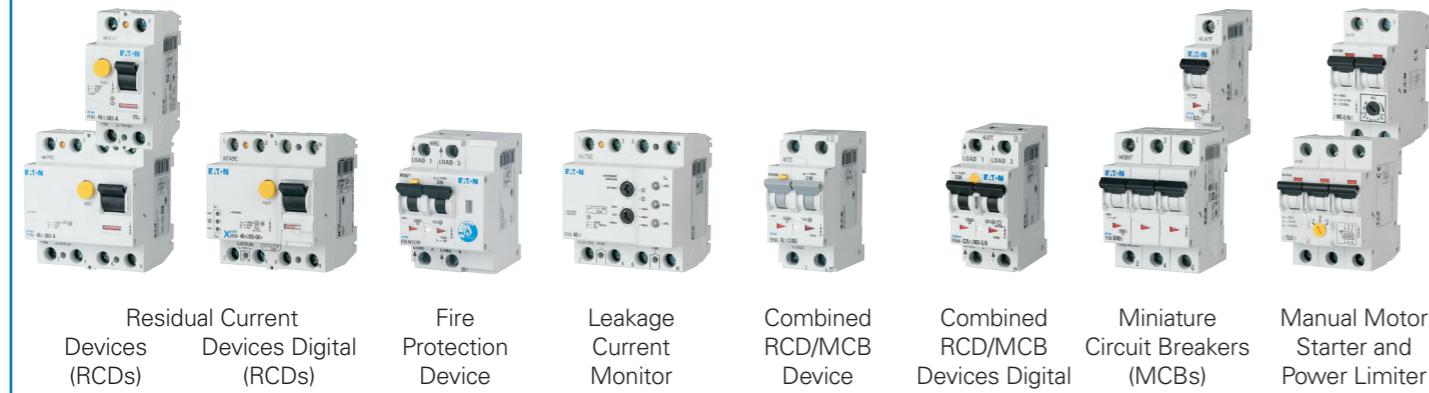
## Ci enclosures as a ready-to-connect network and system protection

### 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

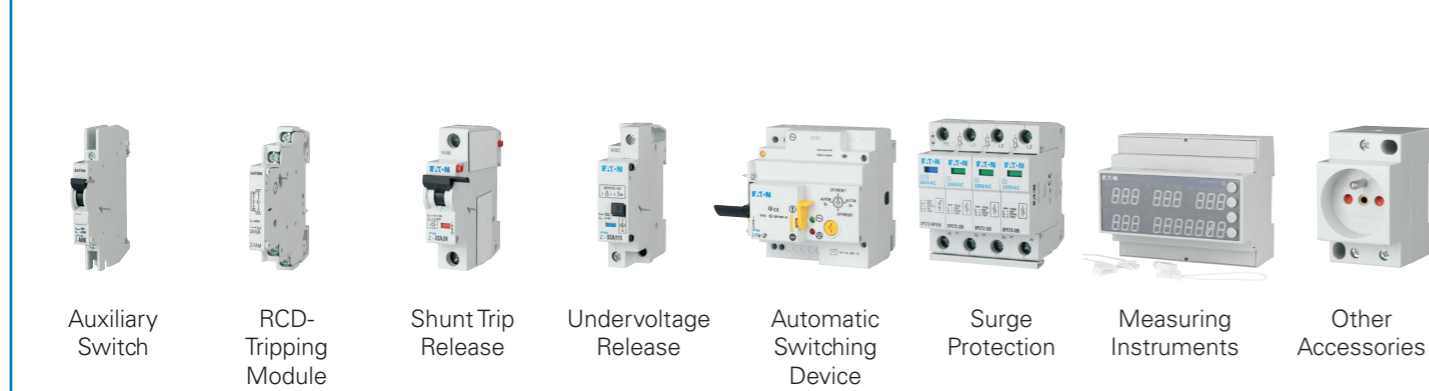
**Modular DIN-Protective Devices**



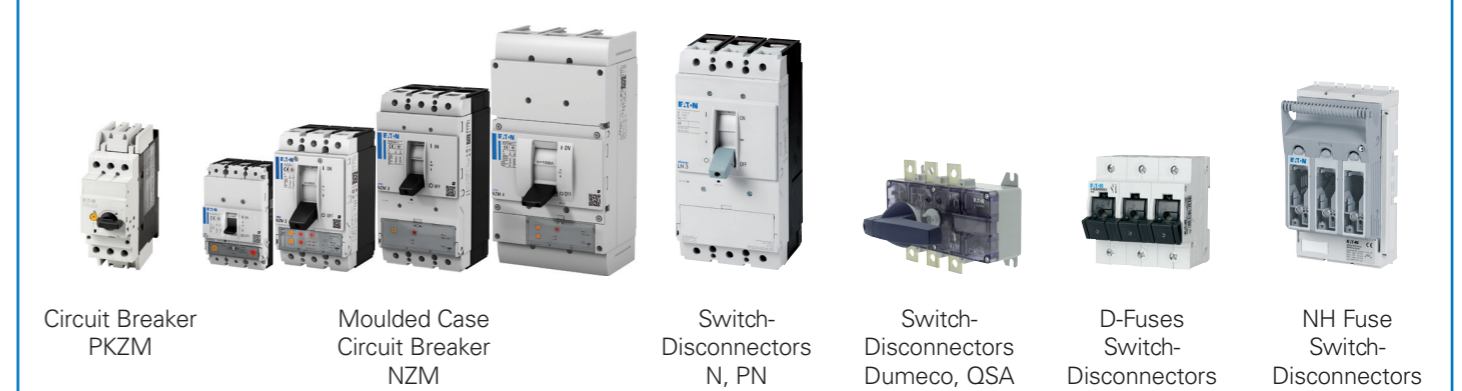
**Motor-Protection and Starters**



**Accessories for Modular DIN-Protective Devices**



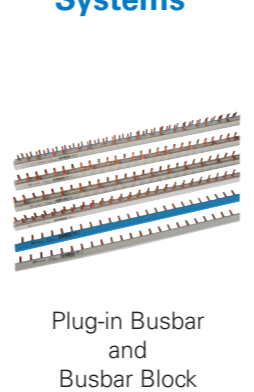
**Cable and System Protection**



**Modular Controlling & Switching**



**Busbar Systems**



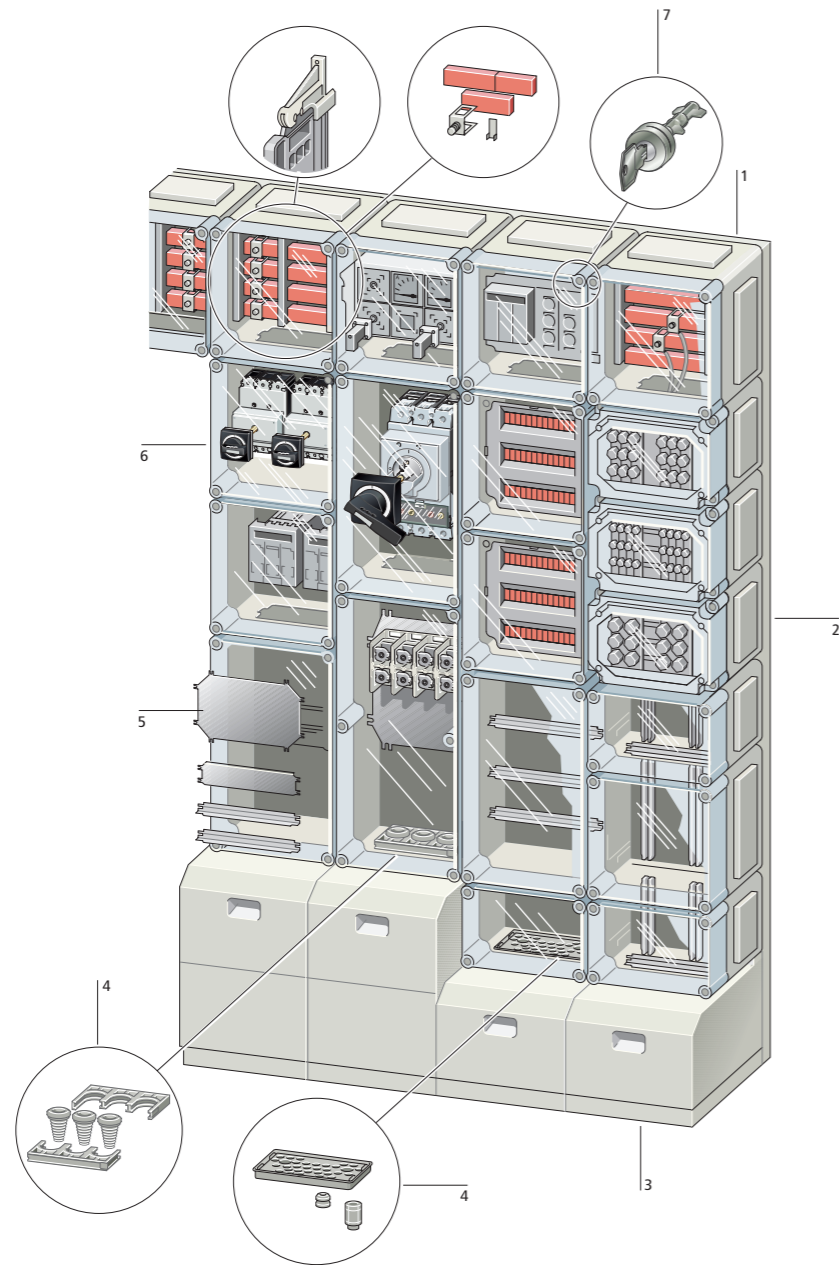
**Terminals**



**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.

32000020

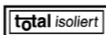


<b>Basic enclosures</b>	
Five sizes that can be combined	
Width $\geq 187.5 \leq 375$ mm	
Height $\geq 250 \leq 750$ mm	
Depth $\geq 150 \leq 275$ mm	
Metric cable-entry knockouts in the sides	
Sealable cover fastener with I/O position indicator and built-in springs for pressure relief in the event of a short-circuit	
Transparent cover with/without non-transparent door, RAL 7035	
→ Page 1.33	
<b>Busbar systems</b>	1
3-/4-/5-conductor systems	
Rated operational current up to 1600 A	
Copper busbars	
Busbar terminals	
→ Page 1.65	

<b>Mounting elements</b>	2
Support frames for wall-mounted and floor-mounted distribution boards	
Wall-fixing brackets	
Fixing straps	
→ Page 1.45	
<b>Cable compartment</b>	3
Plinths	
Cable compartment cladding	
→ Page 1.90, → Page 1.91	
<b>Cable entries</b>	4
Gland plates for large cross-sections	
Flanges	
Metric cable glands/grommets	
→ Page 1.44, → Page 1.38, → Page 1.93	

<b>Mounting systems for basic enclosures</b>	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	
<b>Pre-assembled enclosures/distribution board assembly</b>	6
MCB enclosures	
Fuse enclosures	
Enclosures with NH fuse switch-disconnectors	
Circuit breaker enclosures	
Meter enclosures	
→ Page 1.50, → Page 1.54	
<b>Cover fasteners</b>	7
Latching or with cylinder lock	
→ Page 1.36	

**Features**

- 
- 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

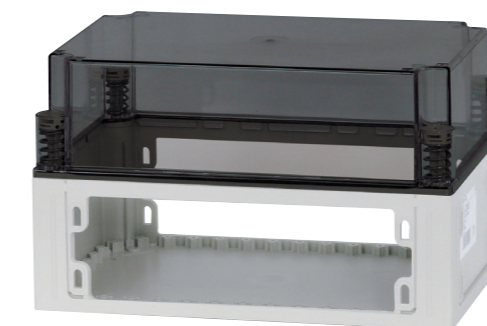
3200PIC-52



**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	
		Transparent cover	CI23E-125	019570	1
		Non-transparent cover	CI23E-125-RAL7035	194609	1
		Transparent cover	CI23E-150	021943	1
		Non-transparent cover	CI23E-150-RAL7035	194610	1
		Transparent cover	CI43E-125	093133	1
		Non-transparent cover	CI43E-125-RAL7035	194611	1
		Transparent cover	CI43E-150	095506	1
		Non-transparent cover	CI43E-150-RAL7035	194612	1
		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	
		Transparent cover	CI44E-125	031436	1
		Non-transparent cover	CI44E-125-RAL7035	194614	1
		Transparent cover	CI44E-150	033809	1
		Non-transparent cover	CI44E-150-RAL7035	194615	1
		Transparent cover	CI44E-200	036182	1
		Transparent with transparent door	CI44E-200-T	090147	1
		Non-transparent cover	CI44E-200-RAL7035	194616	1
		Transparent cover	CI44E-250	038555	1

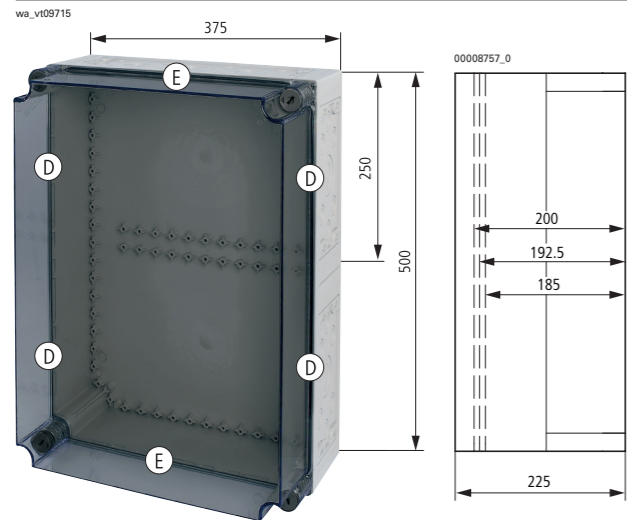
Dimensions  
mm

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

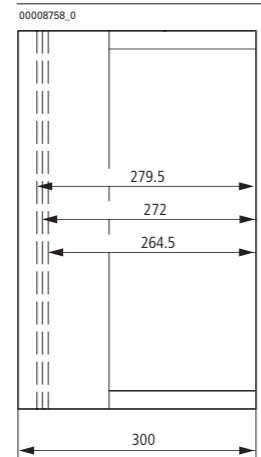
Type  
name

Article no.

Units  
per  
package



Transparent cover	CI45E-200	001891	1
Non-transparent cover	CI45E-200-RAL7035	194617	1



Transparent cover	CI45E-250	194552	1
Non-transparent cover	CI45E-250-RAL7035	194553	1

### Notes

A B C D

00062217\_0



00062220\_0



00062223\_0



00062226\_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

E F

00063330\_0



00062229\_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

### 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

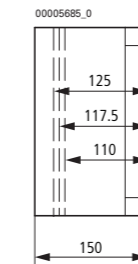
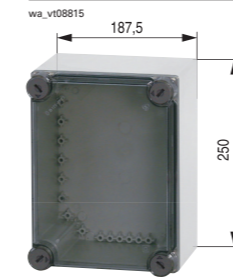
Dimensions  
mm

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

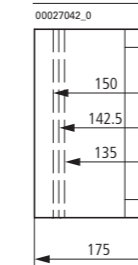
Type  
name

Article no.

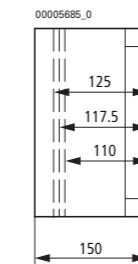
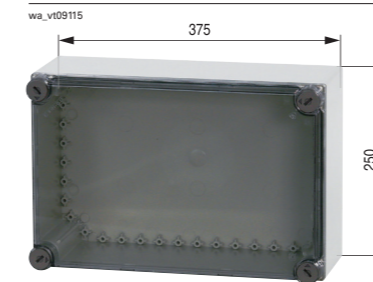
Units  
per  
package



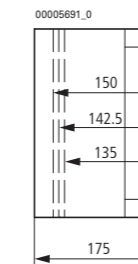
CI23X-125	010408	1
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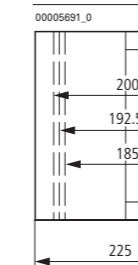
CI23X-150	015154	1
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CI43X-125	019900	1
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CI43X-150	024646	1
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CI43X-200	029392	1
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# 1.24 Ci insulated enclosures



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
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 		CI44X-125	031765	1
		CI44X-150	034138	1
		CI44X-200	036511	1
		CI44X-250	038884	1

# Ci insulated enclosures 1.25



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
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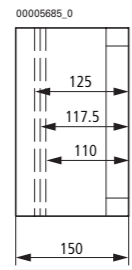
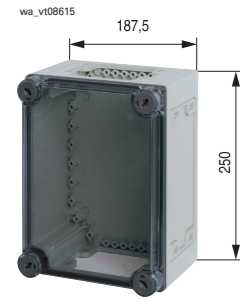
 		CI45X-200	098469	1
		CI45X-250	194555	1

Panel enclosures

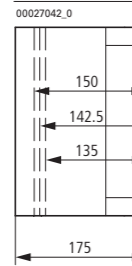
**Basic enclosures, panel enclosures**

- 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

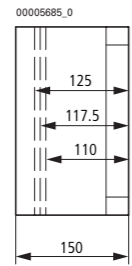
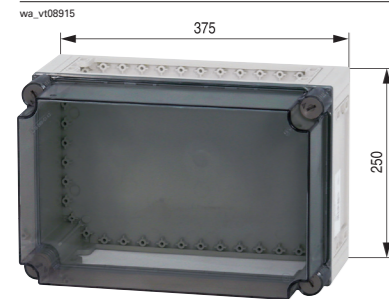
Dimensions mm	Enclosure depth (dimensions from top)	Type name	Article no.	Units per package
	1. Mounting depth with mounting plate 2. Mounting depth with 7.5 mm high mounting rail 3. Mounting depth with 15 mm high mounting rail 4. Enclosure depth mm			



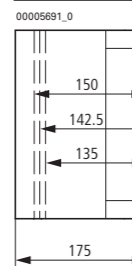
		CI23-125	098208	1
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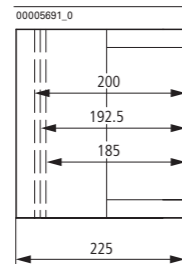
		CI23-150	012781	1
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		CI43-125	017527	1
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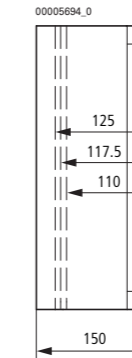
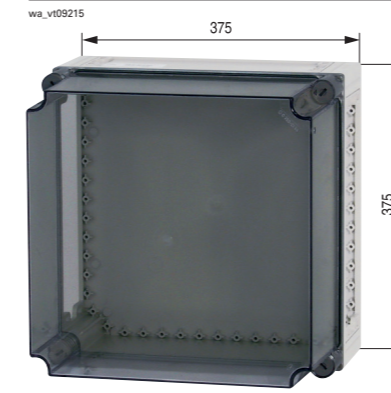


		CI43-150	022273	1
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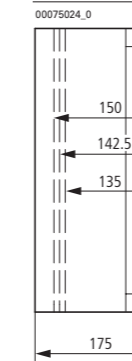


		CI43-200	027019	1
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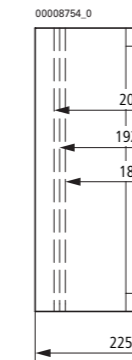
Dimensions mm	Enclosure depth (dimensions from top)	Type name	Article no.	Units per package
	1. Mounting depth with mounting plate 2. Mounting depth with 7.5 mm high mounting rail 3. Mounting depth with 15 mm high mounting rail 4. Enclosure depth mm			



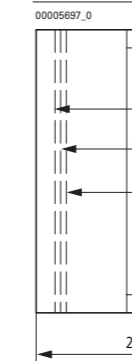
		CI44-125	012452	1
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		CI44-150	017198	1
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		CI44-200	021944	1
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		CI44-250	026690	1
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# 1.28

## Ci insulated enclosures



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
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		CI45-200	001896	1
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	CI45-250	194554	1
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## Ci insulated enclosures

# 1.29



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
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		CI48-200	078896	1
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	CI48-250	083642	1
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Panel enclosures with gland plates fitted

### 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
		2 x 14 - 54	KST32-125	069774	1
		2 x 14 - 54	KST32-150	072147	1
		2 x 14 - 54	KST34-125	076893	1
		2 x 14 - 54	KST34-150	074520	1
		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
		3 x 14 - 68	KST43-125	081639	1
		3 x 14 - 68	KST43-150	084012	1
		3 x 14 - 68	KST43-200	086385	1
		3 x 14 - 68	KST44-125	088758	1
		3 x 14 - 68	KST44-150	091131	1

# 1.32 Ci insulated enclosures



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
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wa\_vt10315

00008754_0	3 x 14 - 68	KST44-200	093504	1
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00005697\_0

00005697_0	3 x 14 - 68	KST44-250	095877	1
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wa\_vt06918

00008757_0	3 x 14 - 68	KST45-200	194549	1
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# Ci insulated enclosures 1.33



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
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wa\_vt10415

00012579_0	3 x 14 - 68	KST48-200	098250	1
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00008760\_0

00008760_0	3 x 14 - 68	KST48-250	010450	1
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### Enclosure bases

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

#### 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

Dimensions width mm	height mm	Mounting depth mm	For use with	Type name	Article no.	Units per package
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#### Transparent covers

- Sealable cover fasteners
- Gasket

3200PIC-112



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
500	200		U-CI45...	D200-CI45	001895	1
		279	U-CI45...	D250-CI45	194550	1
		750	200	U-CI48...	D200-CI48	078901
	250	U-CI48...	D250-CI48	083647	1	
	250/360	U-CI48...	D250-CI48-NZM-RTR	194558	1	

v118318\_f



#### Non-transparent covers

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

3200PIC-113



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
	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

### Lockable enclosure cover

Dimensions width mm	height mm	Mounting depth mm	For use with	Number of cylindrical locks	Type name	Article no.	Units per package	
<b>Transparent covers</b>								
<ul style="list-style-type: none"> <li>• 2 and 4 lockable diagonal cover fasteners, with cylinder lock</li> <li>• Cylinder locks, common locking mechanism</li> <li>• 2 sealable diagonal cover locks; no sealing option if all DV...-CI are replaced with DVZ-...-CI</li> <li>• Scope of delivery: gasket, key</li> </ul>								
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
500	200	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	
750	200	200	U-CI45...	2	D200-CI45-DVZ	138523	1	
		250	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 covers with door, doors

For use with	Mounting depth mm	Type name	Article no.	Units per package
<b>Enclosure cover with door</b>				
<ul style="list-style-type: none"> <li>• IP65 degree of protection</li> <li>• Transparent door, with quick-release fasteners and 180° door opening angle</li> <li>• Door hinges can subsequently be switched to left, right, top or bottom</li> </ul>				
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
For use with		Type name	Article no.	Units per package



#### 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
- Fixing screws
- Transparent



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

Accessories for basic enclosures

For use with	Type name	Article no.	Units per package
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**Cover fasteners for Ci enclosures**



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



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



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
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**Handle**

- Quick-release fastener for manual opening of the enclosure
- For the D200 and D250 covers, the VH650-CI handle extension must be ordered separately



CI23: 4 pieces CI43: 4 pieces CI44: 4 pieces CI45: 4 pieces CI48: 6 pieces	HG-CI	046382	20
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**Handle extension**

- For D200-... and D250-... covers



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
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For use with	Type name	Article no.	Units per package
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**Sealing kit**

- For the upper edge of the D200-... and D250-... covers



Use one set diagonally for each enclosure. Each set consists of 2 sealable locks.	PLV200-CI	044881	5
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Dimensions width mm	Height mm	For use with	Type name	Article no.	Units per package
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**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



265	253	CI44... CI45... CI48...	NZM-RTR	194557	1
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Dimensions Width x height x depth mm	Type name	Article no.	Units per package
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**Spare part corner pieces (4 pcs.)**

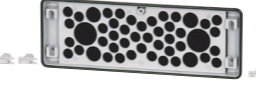



- Set of 4 corner pieces for CI base incl. fixing screws



26 x 26 x 36	ECK-SET-CI	179324	1
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### Accessories, flanges

Cable entry	Type name	Article no.	Units per package
<b>Flanges</b>			
<ul style="list-style-type: none"> <li>• Foamed captive gasket</li> <li>• Quick mounting using wedge-lock fasteners (included as standard)</li> </ul>			
<b>For 375 mm enclosures</b>			
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
<b>For 250 mm enclosures</b>			
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
<b>For 187.5 mm enclosures</b>			
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
<b>For 125 mm enclosures</b>			
3200PIC-146 	Drill as required	FL1-X	078933 10

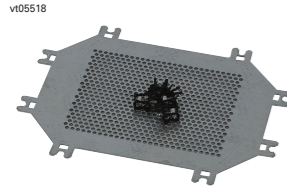
External cable diameter mm	For use with	Type name	Article no.	Units per package
<b>Sponge-rubber flange IP54</b>				
<ul style="list-style-type: none"> <li>• IP54 degree of protection</li> <li>• To be fitted on the side of 375 mm enclosures</li> </ul>				
3200PIC-158 	42 x 10 - 13 4 x 15 - 19 2 x 20 - 30	FL4-D	044879	10
<ul style="list-style-type: none"> <li>• IP65 degree of protection</li> <li>• Add-on solution with special TPE-flange for push-through cable entry</li> </ul>				
EP501530_L 	3 x 3 - 6 9 x 3 - 7 8 x 6 - 9 4 x 6 - 12 1 x 10 - 20	FL3-MH25-CI	EP-501530	1
EP501531_L 	4 x 6 - 10 14 x 8 - 12 16 x 10 - 14 2 x 12 - 18 1 x 17 - 32	FL4-MC37-CI	EP-501531	1
<b>Spacers for flanges</b>				
<ul style="list-style-type: none"> <li>• To extend the connection compartment by 25 mm</li> </ul>				
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 systems for basic enclosures

**Mounting plates**

- Includes 4 captive fixing screws

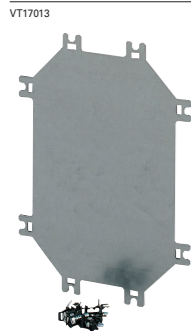
For use with	Thickness mm	Type name	Article no.	Units per package
<b>Micro-perforated, sheet steel, galvanized</b>				
CI23	1.5	MM-CI23	193444	5
CI43: 1 x CI45: 2 x	1.5	MM-CI43	193445	5
CI44	1.5	MM-CI44	193446	5
CI45	1.5	MM-CI45	193447	5
CI48	1.5	MM-CI48	193448	2



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



For use with	Thickness mm	Type name	Article no.	Units per package
<b>Galvanized steel, 1.5 - 2 mm thick</b>				
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



For use with	Description	Type name	Article no.	Units per package
<b>Thread-forming screw</b>				
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
<b>Galvanized sheet steel, 3 mm thick</b>			
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

VT17013



For use with	Type name	Article no.	Units per package
<b>Glass-fiber reinforced insulating material, 4 mm thick</b>			
• Devices are secured using hank nuts			
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

VT17113



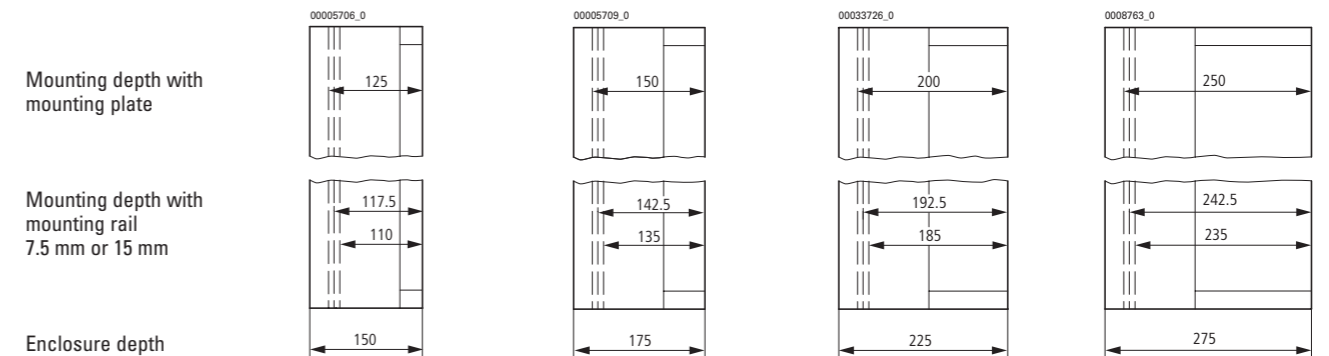
For use with	Description	Type name	Article no.	Units per package
<b>Hank nuts for insulated mounting plate</b>				
IM4...	M4 thread	EM4-CI	002293	100
IM4...	M5 thread	EM5-CI	002294	100
IM4...	M6 thread	EM6-CI	002295	100

VT69313



**Notes**

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




Mounting system for basic enclosures, accessories

Thickness mm	For use with	Type name	Article no.	Units per package
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**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

	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

Bar height mm	For use with	Type name	Article no.	Units per package
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**Mounting rail to IEC/EN 60715**



- Galvanized sheet steel
- Includes 2 captive fixing screws

	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
	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

Raising piece	Type name	Article no.	Units per package
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**Spacer**


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

	By 10 mm	ADT200-190	002289	25
	By 15 mm	ADT125-110	002290	25
	By 25 mm	HS25-CI	002291	10
	By 50 mm	HS50-CI	002292	10

For use with	Type name	Article no.	Units per package
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**Captive fixing screw**

- For fixing the mounting systems
- For replacement purposes

	Mounting plates, pre-drilled mounting plates, mounting rails, module mounting rails	UBS4.8	002288	25
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Accessories for fitting meters

For use with	Type name	Article no.	Units per package
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**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.



CI43E-200 and CI43E-250 enclosures	GA-MS-I43	053502	1
CI44E-250 enclosures	GA-MS-I44	055875	1

**Set of support brackets**

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
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**Set of support brackets**

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
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**Fixing kits**

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
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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
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Accessories for enclosure assembly

For use with enclosure size	Type name	Article no.	Units per package
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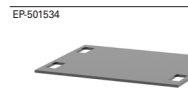
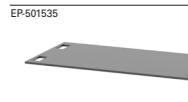
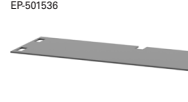
**Connection kits**

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

 <p>3200PIC-235</p>	187.5 mm	BS2-CI	090750	10
 <p>3200PIC-236</p>	250 mm 500 mm (use 2 pieces)	BS3-CI	097869	10
 <p>3200PIC-238</p>	375 mm 750 mm (use 2 pieces)	BS4-CI	014815	10


**Finger-protection covers (Form 2) for add-on connection**

- For finger-protection between the enclosures when connecting them

 <p>EP-501534</p>	187.5 mm	F2P-2-CI	EP-501534	1
 <p>EP-501535</p>	250 mm	F2P-3-CI	EP-501535	1
 <p>EP-501536</p>	375 mm	F2P-4-CI	EP-501536	1

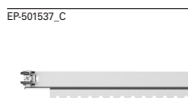
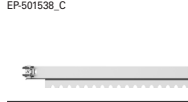
**Flange adapters**

- For connecting enclosures with sides of different lengths

 <p>3200PIC-243</p>		FT-CI	002319	10
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**Cable capture plates**

- Enable cable strain-relief after inserting them

 <p>EP-501537_C</p>	250 mm	CCP-3-CI	EP-501537	1
 <p>EP-501538_C</p>	375 mm	CCP-4-CI	EP-501538	1

For use with enclosure size	Type name	Article no.	Units per package
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**Cross-strut kits**

- Enable the fitting of cables or busbars from the front

 <p>3200PIC-272</p>	250 mm	STB3-CI	219217	1
	375 mm	STB4-CI	034223	1

**Gland plates**


- Enable the fitting of cables or busbars from the front

 <p>3200PIC-163</p>	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
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**Fixing strap kits**

- For fixing Ci enclosures directly to the wall
- Max. 4 CI43... enclosures


 <p>VT69713</p>	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

 <p>v105918</p>	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**

 <p>VT11609</p>	For fixing Ci enclosures directly to the W... wall-mounting brackets and the WS..., WW... sections.	LT284-M6X20-C	050325	100
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Description	Type name	Article no.	Units per package
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**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
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**Bracket**

3200PIC-257

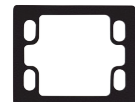


For enclosure assembly, enclosure size 375 mm	KD4-CI	002313	25
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**Gaskets**

- For enclosure assembly

3200PIC-257



Enclosure size 187.5 mm	D2-CI	002310	20
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3200PIC-284



Enclosure size 250 mm	D3-CI	002311	20
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3200PIC-238



Enclosure size 375 mm	D4-CI	002312	20
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X-type individual enclosures for North America

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

**Notes** Information for export to North America:  
 Product standards UL 508A; IEC/EN 60529; CE marking  
 UL File No. E499317  
 UL CCN NITW NA Certification: UL listed  
 Specially designed for NA: Yes  
 Suitable for industrial control panels  
 Degree of protection IEC: IP65; UL Types 1, 12, 13, 4X, indoor only

Panel enclosures for North America

### 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	125	CI44-125-NA	002245	1
		175	150	CI44-150-NA	002246	1
		225	200	CI44-200-NA	002249	1
421	250	250	250	CI44-250-NA	002250	1
		275	250	CI44-250-NA	002250	1
546	225	200	CI45-200-NA	264024	1	
796	225	200	200	CI48-200-NA <sup>1)</sup>	002253	1
		275	250	CI48-250-NA <sup>1)</sup>	002254	1

**Notes** Information for export to North America:  
 Product standards UL 508A; IEC/EN 60529; CE marking  
 UL File No. E499317  
 UL CCN NITW  
 NA Certification: UL listed  
 Specially designed for NA: Yes  
 Suitable for industrial control panels  
 Degree of protection IEC: IP65; UL Types 1, 12, 13, 4X, indoor only  
<sup>1)</sup> IEC: IP65; UL Types 1, 12, 13, indoor only

Prepared enclosures  
Individual MCB enclosures

### 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
	9	1 x 2.5-25 mm <sup>2</sup> and 7 x 0.5-4 mm <sup>2</sup>	Transparent cover	AE/I23E	029766	1
		1 x 2.5-25 mm <sup>2</sup> and 7 x 0.5-4 mm <sup>2</sup>	Transparent door	AE/I23E/T	032139	1
	27	3 x 2.5-25 mm <sup>2</sup> and 21 x 0.5-4 mm <sup>2</sup>	Transparent cover	AE/I43E	000239	1
		3 x 2.5-25 mm <sup>2</sup> and 21 x 0.5-4 mm <sup>2</sup>	Transparent door	AE/I43E/T	002612	1
	45	3 x 2.5-25 mm <sup>2</sup> and 21 x 0.5-4 mm <sup>2</sup>	Transparent cover	AE/I44E	004985	1
		3 x 2.5-25 mm <sup>2</sup> and 21 x 0.5-4 mm <sup>2</sup>	Transparent door	AE/I44E/T	061937	1

**Notes**

A B C D

00062217\_0



00062220\_0



00062223\_0



00062226\_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

E F

00063330\_0



00062229\_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

MCB distribution board enclosures

**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
	9	150	AV/I23-125	036089	1
		175	AV/I23-150	043208	1
	27	150	AV/I43-125	047954	1
		225	AV/I43-200	045581	1
	45	150	AV/I44-125	059819	1
		225	AV/I44-200	062192	1

Modular MCB enclosure systems

For use with	Notes	Type name	Article no.	Units per package
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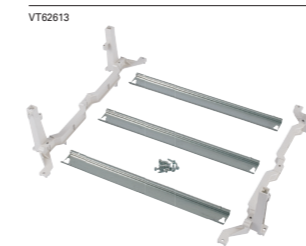
**Mounting rail supports**

**1 row**



CI23	Busbar length 162 mm for 9 space units	TG23	044004	1
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**3 rows**



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**

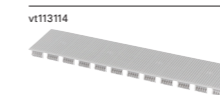
- Busbar shroud with inscription label



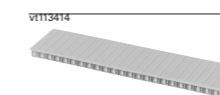
TG23	1 row	GA-0/I23	051123	5
TG43	3 rows	GA-0/I43	053496	5
TG44	3 rows	GA-0/I44	055869	5

**Blanking strip**

- For blanking off unused locations





CI...	Thinly ribbed for 12 space units	BS-12MF-GY	178980	10/100
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CI...	Widely ribbed for 12 space units	BS-12MB-GY	178979	10/100
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PE and N terminals Description	For use with	Type name	Article no.	Units per package
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**KSK PE pre-assembled combination plug-in terminal**

 v120819	1 x 2.5-25 mm <sup>2</sup> and 7 x 0.5-4 mm <sup>2</sup>	TG23	KSK-1PE-CI	194559	1
 v121019	3 x 2.5-25 mm <sup>2</sup> and 21 x 0.5-4 mm <sup>2</sup>	TG43 TG44	KSK-3PE-CI	194561	1

**KSK N pre-assembled combination plug-in terminal**

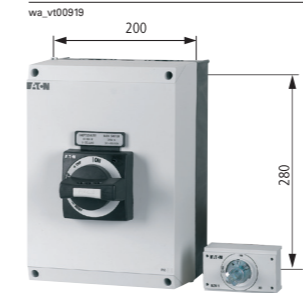
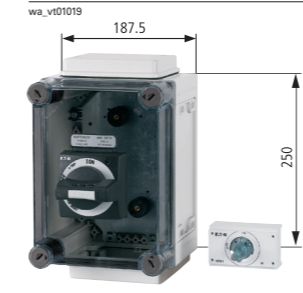
 v120919	1 x 2.5-25 mm <sup>2</sup> and 7 x 0.5-4 mm <sup>2</sup>	TG23	KSK-1N-CI	194560	1
 v121119	3 x 2.5-25 mm <sup>2</sup> and 21 x 0.5-4 mm <sup>2</sup>	TG43 TG44	KSK-3N-CI	194562	1

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

- With door coupling rotary handle
- Complete, includes all necessary functional parts
- Not UL 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 uninter-upted current I <sub>u</sub> A	For use with	Basic enclosures	Terminals that can be retrofitted <sup>1)</sup>	Type name	Article no.	Units per package
 wa_v100919	IP65	≤ 63	PN1, N(S)1	CI-K5-160-M	K50/1	NZM1-XCIK5-TVD	271521	1
 wa_v101019	IP65	≤ 63	NZM1, PN1, N(S)1	CI23-150	K50/1	NZM1-XCI23-TVD	271522	1
 wa_v101119	IP65	≤ 125	NZM1(-4), PN1(-4), N(S)1(-4)	CI43-150	K50/1, K95/1N/BR	NZM1-XCI43-TVD	271523	1

**Notes**

- <sup>1)</sup> 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)

# 1.56 Ci insulated enclosures



Dimensions mm	Degree of protection	Max. rated current I <sub>b</sub> A	For use with	Basic enclosures	Terminals that can be retrofitted <sup>1)</sup>	Type name	Article no.	Units per package
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	IP65	≤ 160	NZM1(-4), PN1(-4), N(S)1(-4)	CI43-200	K50/1, K95/1N/BR	NZM1-XCI43/2-TVD	104645	1
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	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
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	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
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	IP65	≤ 250	incl. N2-250	CI48-200	incl. K50/1, K150/1/BR	N2-250-CI-S-1-011-6374	115401	1
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Notes  
<sup>1)</sup> 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)

# Ci insulated enclosures 1.57



Dimensions mm	Degree of protection	Max. rated current I <sub>b</sub> A	For use with	Basic enclosures	Terminals that can be retrofitted <sup>1)</sup>	Type name	Article no.	Units per package
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	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
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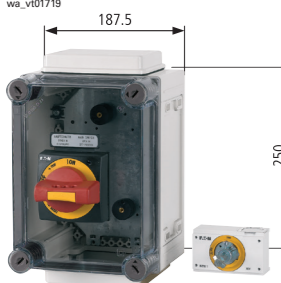
	IP65	≤ 400	incl. N3-400	CI combination consisting of CI48-200 + CI44-200 + STB4-CI	incl. K50/1, K240/1/BR	N3-400-CI-S-1-011-6375	115400	1
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	IP65	≤ 630	incl. N3-630	CI combination consisting of CI48-200 + CI43E-200 + STB4-CI	incl. K50/1, K240/1/BR	N3-630-CI-S-1-011-6376	115279	1
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Notes  
<sup>1)</sup> 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 uninterrupt- ed current I <sub>u</sub> A	For use with	Basic enclosures	Terminals that can be retrofitted <sup>1)</sup>	Type name	Article no.	Units per packa- ge
 <p>wa_vt01619</p>	IP65	≤ 63	PN1, N(S)1	CI-K5-160-M	K50/1	NZM1-XCIK5-TVDVR	271526	1
 <p>wa_vt01719</p>	IP65	≤ 63	NZM1, PN1, N(S)1	CI23-150	K50/1	NZM1-XCI23-TVDVR	271527	1
 <p>wa_vt01819</p>	IP65	≤ 125	NZM1(-4), PN1(-4), N(S)1(-4)	CI43-150	K50/1, K95/1N/BR	NZM1-XCI43-TVDVR	271528	1

Notes

<sup>1)</sup> 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 uninterrupt- ed current I <sub>u</sub> A	For use with	Basic enclosures	Terminals that can be retrofitted <sup>1)</sup>	Type name	Article no.	Units per packa- ge
 <p>wa_vt01919</p>	IP65	≤ 160	NZM1(-4), PN1(-4), N(S)1(-4)	CI43-200	K50/1, K95/1N/BR	NZM1-XCI43/2-TVDVR	104646	1
 <p>wa_vt02019</p>	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
 <p>wa_vt02119</p>	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

<sup>1)</sup> 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 pro- tection	Max. rated uninterrupted current $I_u$ A	For use with	Basic enclosures	Terminals that can be retrofitted <sup>1)</sup>	Type name	Article no.	Units per packa- ge
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	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
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### Notes

<sup>1)</sup> 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)

### 3-pole and 4-pole NZM... circuit breakers/N... switch-disconnectors

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

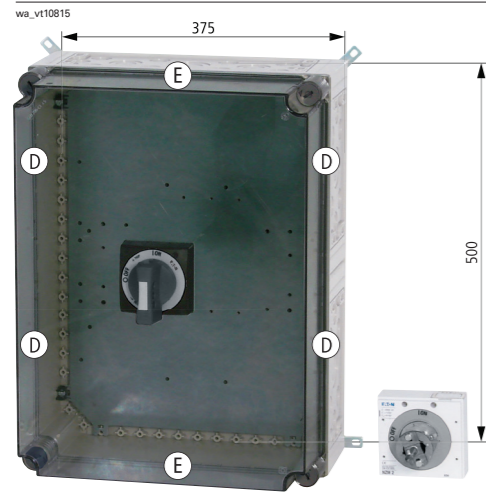
- For use as individual enclosures<sup>1)</sup> or in distribution boards
- The technical data of other equipment must be observed when connecting distribution boards
- IP65 degree of protection
- Integrated pressure-relief mechanism in the event of a short-circuit
- Metric cable-entry knockouts in all 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
- **\*\*NEW\*\*** Special types incl. PN switch-disconnector as „breaker in the box“ assembly (PNx-xx-CIxx-xxx)

Dimensions mm	Rated unin- terrupted current $I_u$ A	Can be used for base units	Can be used with terminals <sup>2)</sup>	Basic enclosures	Type name	Article no.	Units per packa- ge
	63	NZM1(-4) N1(-4), PN1(-4) NS1 LZM1(-4) LN1(-4)	K95/1N...	CI23E-150	MCCB1-63/I23E-150	138538	1
	63	incl. PN1-63	K95/1N...	CI23E-150	PN1-63-CI23E-150	EP-501523	1
	125	incl. PN1-125	K95/1N...	CI23E-150	PN1-125-CI23E-150	EP-501524	1
	160	incl. PN1-160	K95/1N...	CI23E-150	PN1-160-CI23E-150	EP-501525	1
	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
	200	incl. PN2-200	K50/1 K95/1N... K150/1N...	CI43E-200	PN2-200-CI43E-200	EP-501526	1
	250	incl. PN2-250	K50/1 K95/1N... K150/1N...	CI43E-200	PN2-250-CI43E-200	EP-501527	1
	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
	160	incl. PN1-160	incl. K95/1N... (N/PE)	CI45E-200	PN1-160/5-CI45E-200	EP-506547	1
	250	incl. PN2-250	incl. K150/1... (N/PE)	CI45E-200	PN2-250/5-CI45E-200	EP-506548	1

### Notes

<sup>1)</sup> Insulated additional terminals for the 4th or 5th pole must be ordered separately.  
<sup>2)</sup> The short-circuit ratings of the individual enclosures must be observed.

Dimensions mm	Rated un-interrupted current I <sub>n</sub> A	Can be used with base units	Can be used with terminals <sup>2)</sup>	Basic enclosures	Type name	Article no.	Units per package
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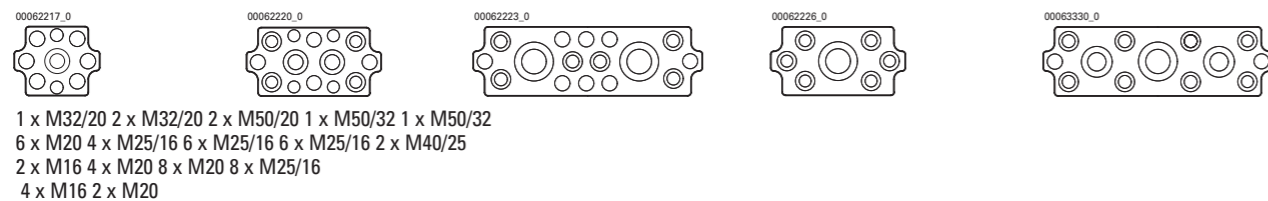


400		NZM3(-4) N3(-4), PN3(-4) NS3 LZM3(-4) LN3(-4)	K50/1 K95/1N... K150/1N... K240/1N...	CI45E-200	MCCB3-400/I45E-200	138543	1
400		incl. PN3-400	K50/1 K95/1N... K150/1N...	CI45E-200	PN3-400-CI45E-200	EP-501528	1
630		incl. PN3-630	K50/1 K95/1N... K150/1N...	CI45E-200	PN3-630-CI45E-200	EP-501529	1



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	MCCB3-630/I48/I43E-200 + I43E-200 + CI48-200 + CI43E-200 + STB4-CI	138544	1
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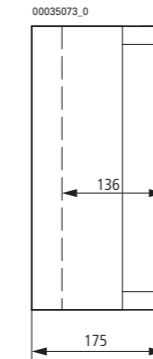
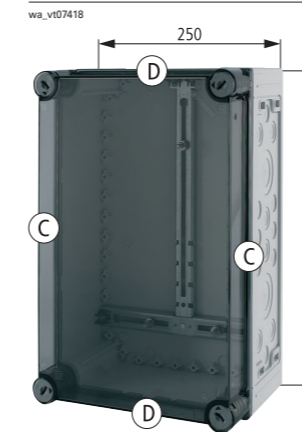
Notes  
<sup>2)</sup> The short-circuit ratings of the individual enclosures must be observed.  
 A B C D E



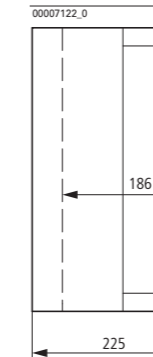
**Prepared enclosures, meter enclosures with meter rail**

- 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

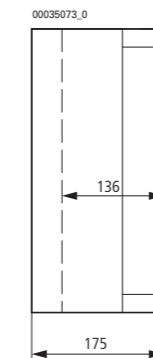
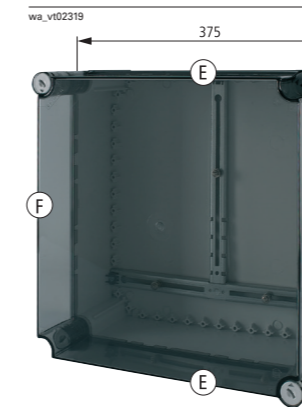
Dimensions mm	Enclosure depth (dimensions from top) 1. Meter rail 2. Enclosure depth mm	Version	Type name	Article no.	Units per package
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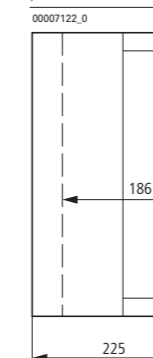
		Transparent cover	ZG/I43E-G-150	013151	1
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		Transparent cover	ZG/I43E-G-200	015524	1
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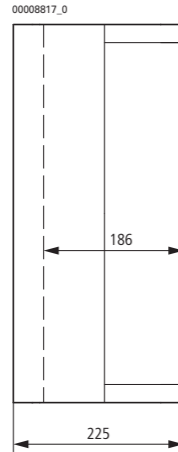
		Transparent cover	ZG/I44E-150	017897	1
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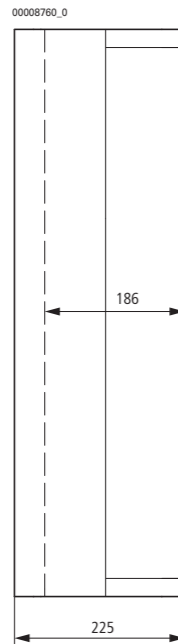
		Transparent cover	ZG/I44E-200	020270	1
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Dimensions mm	Enclosure depth (dimensions from top)		Version	Type name	Article no.	Units per package
	1. Meter rail	2. Enclosure depth mm				

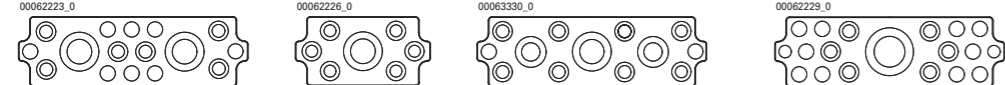
VT19313_L			Transparent cover	ZG/145E-200	098479	1
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VT15513_L			Transparent cover; top and bottom with full-area knockouts for FL4... flanges no knockouts in the sides	ZG/148-200	022643	1
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Notes  
C D E F



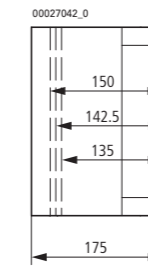
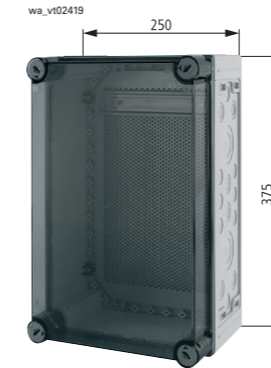
- 2 x M50/20 1 x M50/32 1 x M50/32 1 x M63/40
- 6 x M25/16 6 x M25/16 2 x M40/25 6 x M25/16
- 8 x M20 8 x M25/16 10 x M20
- 2 x M20 2 x M16

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)		Version	Type name	Article no.	Units per package
	1. Mounting depth with mounting plate	2. Mounting depth with 7.5 mm high mounting rail				

wa_vt02419			Transparent cover	CI43E-150-APZ	194606	1
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Description	For use with	Type name	Article no.	Units per package
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Meter rail



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

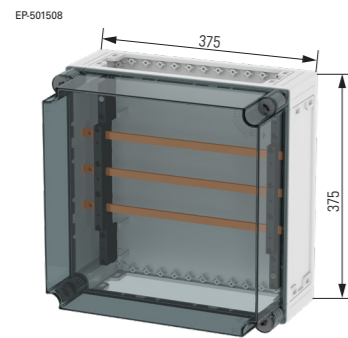
Busbar enclosures, 60 mm system

**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 / CI48-200 basic enclosure
- Distance between busbar centers: 60 mm
- Untreated copper, with integrated grouping function
- 3-pole / 5-pole system
- Includes busbar support for N/PE
- Short-circuit rating  $I_{cw}$  up to 37 kA, at CU30x10, 630 A

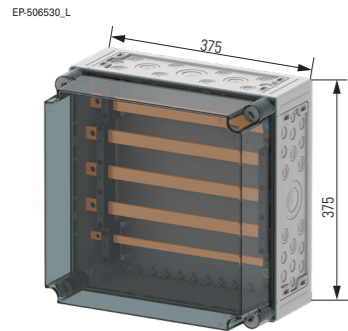
Dimensions mm	Rated operational current $I_e$ A	Features	Type name	Article no.	Units per package
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**3-pole 60 mm busbar system with N/PE**



EP-501508	160	L1, L2, L3: CU12x5 N can be retrofitted with CU12x5 PE can be retrofitted with CU12x5	CI44-S60-160/3	EP-501508	1
	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

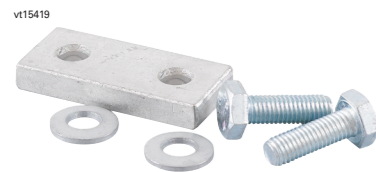
**5-pole 60 mm busbar system with N/PE**



EP-506530_L	250 / 5-pole	L1, L2, L3, N: CU20x5 PE: CU12x5	CI44-S60-250/5	EP-506530	1
	400 / 5-pole	L1, L2, L3, N: CU20x10 PE: CU20x5	CI44-S60-400/5	EP-506531	1
	250 / 5-pole	L1, L2, L3, N: CU20x5 PE: CU12x5	CI48-S60-250/5	EP-506532	1
	400 / 5-pole	L1, L2, L3, N: CU20x10 PE: CU20x5	CI48-S60-400/5	EP-506533	1
	250 / 5-pole	L1, L2, L3, N: CU20x5 PE: CU12x5	CI48-S60-250/5-V	EP-506534	1
	400 / 5-pole	L1, L2, L3, N: CU20x10 PE: CU20x5	CI48-S60-400/5-V	EP-506535	1

**Busbar links, 60 mm system**

- Includes fasteners



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

For use with	For copper busbars	Type name	Article no.	Units per package
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**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



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



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


































3x UBS4, 8 per bracket		SL630-ADP-CI	184465	2
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Busbar terminals; for connecting flat or round conductors, 60 mm system








Max. rated operational current $I_e$ (A)	Conductor type <sup>1)</sup>	Special features	Usage	Notes	Type name	Article no.	Units per package
<b>Terminals for 60 mm system</b>							
<b>Clamp terminal</b>							
• Termination to busbars does not require drilling							
480	35 - 150 mm <sup>2</sup> , 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
500	95 - 185 mm <sup>2</sup> , 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
600	95 - 300 mm <sup>2</sup> , 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
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










<sup>1)</sup>  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 <sup>1)</sup>	Special features	Usage	Notes	Type name	Article no.	Units per package
<b>Universal conductor connection terminal (5 mm), 60-mm system</b>							
180	1.5 - 16 mm <sup>2</sup> , 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
270	4 - 35 mm <sup>2</sup> , 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
400	16 - 70 mm <sup>2</sup> , 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
440	16 - 120 mm <sup>2</sup> , 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




<sup>1)</sup>  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 $I_b$ (A)	Conductor type <sup>1)</sup>	Special features	Usage	Notes	Type name	Article no.	Units per package
<b>Universal conductor connection terminal (10 mm), 60-mm system</b>								
	180	1.5 - 16 mm <sup>2</sup> , 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
	270	4 - 35 mm <sup>2</sup> , 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
	400	16 - 70 mm <sup>2</sup> , 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
	440	16 - 120 mm <sup>2</sup> , 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
	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
	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

- <sup>1)</sup> ○ Solid round conductors
- ⊗ Flexible round conductors with correctly crimped ferrule
- ⊙ Stranded round conductors
- ◇ Sector conductors, solid
- ◊ Sector conductors, stranded
- ▨ Copper strip
- Copper bar

Accessories for busbar enclosures

Rated operational current $I_b$ A	Features	Type name	Article no.	Units per package
<b>Busbar links, 50 mm system</b>				
• Includes fasteners				
	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



  

Can be used with busbars mm	Terminal capacity of flat conductors mm	Rated operational current of flat conductors $I_b$ A	Terminal capacity of round conductors <sup>1)</sup> mm <sup>2</sup>	Type name	Article no.	Units per package
<b>Busbar terminals; for connecting flat or round conductors, 50 mm system</b>						
	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	3 x 9 x 0.8	100	⊙ 35-300	K20X15	002284 10
	Cu 20 x 5 - 15	11 x 21 x 1	630	⊗ 35-240		

- <sup>1)</sup> ⊗ Flexible with correctly crimped ferrule
- ⊙ Stranded


Can be used with copper bars mm	Terminal capacity of flat conductors mm	Rated operational current of flat conductors I <sub>e</sub> A	Notes	Type name	Article no.	Units per package
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**Terminal for flat conductors and copper bars, 50 mm system**

	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	–	for 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
	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	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

Can be used with busbars mm	Terminal capacity of flat conductors mm	Rated operational current of flat conductors I <sub>e</sub> A	Terminal capacity of round conductors <sup>1)</sup> mm <sup>2</sup>	Type name	Article no.	Units per package
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**Ultra-slim busbar terminals, for connecting flat conductors**



	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

<sup>1)</sup> ○ Solid round conductors  
⊗ Flexible round conductors with correctly crimped ferrule

Can be used with busbars mm	Terminal capacity of round conductors <sup>1)</sup> mm <sup>2</sup>	Type name	Article no.	Units per package
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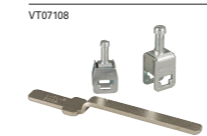
**Terminal expansions for ultra-flat busbar terminals**

**Expansion terminals for strap**

	Cu 10 x 3	○ 1.5-16 ⊗ 0.75-16	AK16	079336	50
	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

	–	–	L-KL-R	079269	50
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Rated operational current I <sub>e</sub> A	For use with	Type name	Article no.	Units per package
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**Busbar supports, 50 mm system**

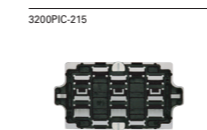

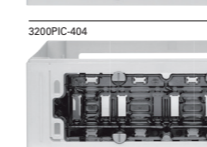
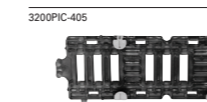
For use between two enclosures

- Component mounting possible on busbar
- Clearance between busbar supports max. 375 mm

**Interval between busbar centers: 40 mm**



	160	L1, L2, L3, PE, N: 12 x 5	SH0165/2	010774	5
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**Interval between busbar centers: 50 mm**

	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
	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
	1000	L1, L2, L3: 2 x 30 x 10; PE, N: 30 x 10	SH1005/4	062993	5
	1600	L1, L2, L3: 3 x 40 x 10	SH1603/4	065366	5

<sup>1)</sup> ○ Solid round conductors  
⊗ Flexible round conductors with correctly crimped ferrule  
⊗ Stranded round conductors

Modular busbar systems



	Max. rated operational current $I_b$ A	Dimensions mm x mm	Length mm	Copper factor	Version	for use with	Type name	Article no.	Units per package
<b>Busbars</b>									
	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	
	-	30 x 10	1500	4.02	untreated	SH1005/4	CU30X10	051211	1
			40 x 10	1500	5.34	untreated	SH1603/4	CU40X10	063076

	Max. rated operational current $I_b$ A	Dimensions mm x mm	Type name	Article no.	Units per package
<b>PE/N busbar supports</b>					
• For relocating PE/N bars from the busbar enclosure to the terminal compartment (for floor-mounted distribution boards)					
	250	20 x 5	SH0632	067739	5
	400	20 x 10			
	630	20 x 15			

For use with	Type name	Article no.	Units per package
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**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

	SH0635/3	HSH-CI	002320	5
	SH0635/4			
	SH1005/4			
	SH1603/4			
	SH0632	HSH0632	002321	5

For use with	Type name	Article no.	Units per package
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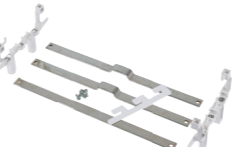
**Busbar bracing, 50 mm system**

- For mounting between two SH0635/... busbar supports when fitting the RS...3-50 busbar mounting fuses on 20 x 5 copper busbars

	SVCU20X5	002323	10
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**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

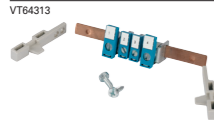
	CI23	SE-RS-I23	041632	1
	CI43	SE-RS-I43	044005	1
	CI44	SE-RS-I44	001890	1

**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<sup>2</sup> (solid)

	CU20X5	K20X15/40-A	012783	10
	CU20X10			
	CU20X15			

Connection cross section solid mm <sup>2</sup>	stranded mm <sup>2</sup>	For use with	Type name	Article no.	Units per package
<b>N bars</b>					
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**

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

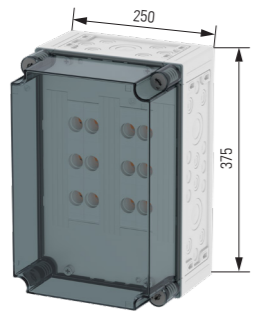


**Pre-assembled enclosures, panel enclosures for fuses, 60 mm system**

- 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

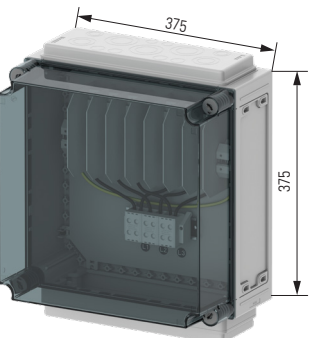
Dimensions mm	Max. rated operational current of busbar I <sub>b</sub> A	Features	Number of circuits max. Fuse link A/V	Type name	Article no.	Units per package
	160	L1, L2, L3: CU12x5 N can be retrofitted with CU12x5 PE can be retrofitted with CU12x5	Screw base 8 x 3 pole 50 A / 400 V E18 / D02	CI44-S60-160/3-8D02	EP-501513	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	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
	160	L1, L2, L3: CU12x5 N can be retrofitted with CU12x5 PE can be retrofitted with CU12x5	Screw base 8 x 3 pole 50 A / 400 V E18 / D02	CI44-S60-160/3-8D02-LTS	EP-501515	1
	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

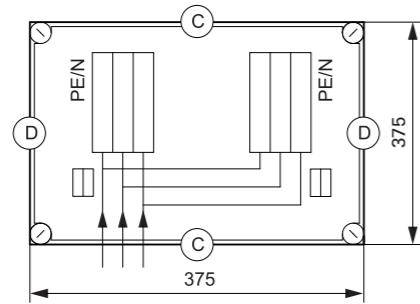
Two-way fuse boxes

Dimensions mm	Max. rated operational current of busbar $I_e$ A	Features	Number of circuits max. Fuse link A/V	Type name	Article no.	Units per package
	160	L1, L2, L3: CU12x5 N can be retrofitted with CU12x5 PE can be retrofitted with CU12x5	Screw base 4x 3 pole 50 A / 400 V E18 / D02	CI43-S60-160/3-4D02	EP-501514	1
	250	L1, L2, L3: CU20x5 N can be retrofitted with CU20x5 PE can be retrofitted with CU12x5	Screw base 4x 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 4x 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 4x 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<sup>2</sup>
- 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
	2 x 100	690	NH00	CI44-125/PEN-2NH00	EP-506549	1



XNH panel enclosures, 60 mm system

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
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3-pole 60 mm busbar system without N/PE

	160	L1, L2, L3: CU12x5 N can be retrofitted with CU12x5 PE can be retrofitted with CU12x5	1 x 3 pole 125 A / 690 V NH00	CI44-S60-160/3-1XNH00	EP-501509	1
		L1, L2, L3: CU12x5 N can be retrofitted with CU12x5 PE can be retrofitted with CU12x5	2 x 3 pole 125 A / 690 V NH00	CI44-S60-160/3-2XNH00	EP-501510	1
		L1, L2, L3: CU12x5 N can be retrofitted with CU12x5 PE can be retrofitted with CU12x5	3 x 3 pole 125 A / 690 V NH00	CI44-S60-160/3-3XNH00	EP-501511	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	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
	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

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
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### 3-pole 60 mm busbar system with N/PE

	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
	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
	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
	160	L1, L2, L3: CU12x5 N can be retrofitted with CU12x5 PE can be retrofitted with CU12x5	1 x 3 pole 125 A / 690 V NH00	CI43-S60-160/3-1XNH00	EP-501512	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

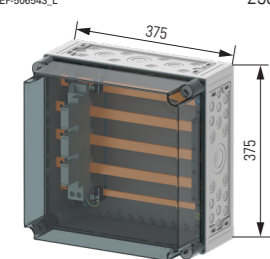
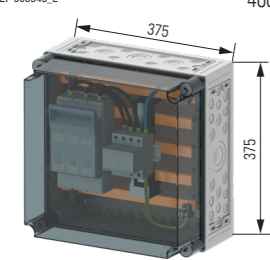
Dimensions mm	Max. rated operational current of busbar $I_e$ A	Features copper/busbar supports	Number of circuits max. Fuse link A/V	Type name	Article no.	Units per package
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### 5-pole 60 mm busbar system with N/PE

	250	L1, L2, L3, N: CU20x5 PE: CU12x5	3 x 3 pole 100 A / 690 V NH000	CI44-S60-250/5-3XNH000	EP-506536	1
		L1, L2, L3, N: CU20x5 PE: CU12x5	2 x 3 pole 125 A / 690 V NH00	CI44-S60-250/5-2XNH00	EP-506537	1
	250	L1, L2, L3, N: CU20x5 PE: CU12x5	2 x 3 pole 125 A / 690 V NH00	CI48-S60-250/5-2XNH00	EP-506538	1
		L1, L2, L3, N: CU20x5 PE: CU12x5	4 x 3 pole 125 A / 690 V NH00	CI48-S60-250/5-4XNH00	EP-506539	1
	400	L1, L2, L3, N: CU20x10 PE: CU20x5	6 x 3 pole 100 A / 690 V NH000	CI48-S60-400/5-6XNH000	EP-506540	1
		L1, L2, L3, N: CU20x10 PE: CU20x5	4 x 3 pole 125 A / 690 V NH00	CI48-S60-400/5-4XNH00	EP-506541	1
	400	L1, L2, L3, N: CU20x10 PE: CU20x5	1 x 3 pole 250 A / 690 V NH1	CI48-S60-400/5-V-1XNH1	EP-506542	1

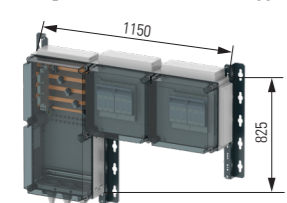
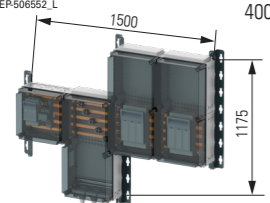
**Pre-assembled enclosures, individual enclosures with SPD surge protection devices, 60 mm system**

- IP65 degree of protection
- All sides closed, with full area or individual metric cable glands knockouts
- Integrated pressure-relief mechanism in the event of a short-circuit
- CI44E-200 basic enclosure (375x375x225 mm)
- Transparent cover
- Sealable cover fasteners
- 5-pole 60 mm busbar system with N/PE
- Including our brand-new SPD-S60 or SPHT12 surge protection device
- For TT and TN-S network systems
- Surge arrester type 1, type 2 and / or type 3
- Can be used as individual enclosure as well as panel enclosure side-by-side with others

Dimensions mm	Max. rated operational current of busbar I <sub>b</sub> A	SPD class	Features copper/busbar supports	Type name	Article no.	Units per package
 EP506543_L	250	Type 1+2	L1, L2, L3, N: CU20x5 PE: CU12x5 SPD-S60-T12-300/3+NPE-AX busbar mounted (external back-up fuse ≤ 250 A gG required)	CI44-S60-250/5-T12	EP-506543	1
		Type 2	L1, L2, L3, N: CU20x5 PE: CU12x5 SPD-S60-T2-300/3+NPE-AX busbar mounted (external back-up fuse ≤ 250 A gG required)	CI44-S60-250/5-T2	EP-506544	1
 EP506545_L	400	Type 1+2	L1, L2, L3, N: CU20x10 PE: CU20x5 SPHT12-275/3+NPE-AX busbar adapter mounted (incl. internal back-up fuse)	CI44-S60-400/5-T12	EP-506545	1
		Type 2+3	L1, L2, L3, N: CU20x10 PE: CU20x5 SPD-S60-T2F-300/3+NPE-AX busbar mounted (incl. internal back-up fuse)	CI44-S60-400/5-T2F	EP-506546	1

**Pre-assembled enclosures, main connection boxes SPD supply side + XNH outgoing as combination , 60 mm system**

- Incl. AKU terminals and cable strain relief rail for supply side cable termination
- Preliminary to meter board connection (pre-meter area inside the house)

Dimensions mm	Max. rated operational current of busbar I <sub>b</sub> A	SPD class	Features copper/busbar supports	Type name	Article no.	Units per package
 EP506551_L	250	Type 1+2	L1, L2, L3, N: CU20x5 PE: CU12x5 SPD-S60-T12-300/3+NPE-AX busbar mounted (external back-up fuse ≤ 250 A gG required) 2x XNH00-S160-BT2 outgoing	HAK250/5-CI-T12-2XNH00	EP-506550	1
		Type 1+2	L1, L2, L3, N: CU20x5 PE: CU12x5 SPD-S60-T12-300/3+NPE-AX busbar mounted (external back-up fuse ≤ 250 A gG required) 4x XNH00-S160-BT2 outgoing	HAK250/5-CI-T12-4XNH00	EP-506551	1
 EP506552_L	400	Type 1+2	L1, L2, L3, N: CU20x10 PE: CU20x5 SPHT12-275/3+NPE-AX busbar adapter mounted (incl. internal back-up fuse) 2x XNH1-S250-BT outgoing	HAK400/5-CI-T12-2XNH1	EP-506552	1

Accessories for fuse enclosures, 60 mm system

For use with	Max. number of permissible devices	Type name	Article no.	Units per package
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**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

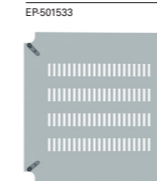


CI44...	8 x D02-S0/63/3-R-27 8 x D02-LTS/63/3-S60 3 x XNH00-S160-BT1	GA-44-S60-XNH00/D02	194586	1
CI44...	1x XNH1-S250-BT	GA-44-S60-XNH1	194587	1
CI44...	1x XNH2-S400-BT	GA-44-S60-XNH2	194588	1
CI43..., rotated	4x D02-S0/63/3-R-27 4x D02-LTS/63/3-S60 1x XNH00-S160-BT1	GA-43-S60-XNH00/D02	194589	1

For use with	Width mm	Type name	Article no.	Units per package
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**Finger-protection cover (Form 2) for busbar enclosures**

- Includes spacers and fixing screws
- Used as intermediate cover behind the front



CI43...	235	F2P-S50/60-I43	EP-501532	1
CI44...	360	F2P-S50/60-I44	EP-501533	1

**Blanking strip, 60 mm system**

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

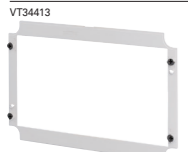
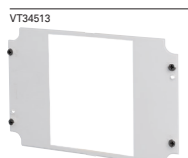



GA-44-S60-... GA-43-S60-...	56	BS-S60-CI/EP	194590	10
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For use with	Permissible devices	Type name	Article no.	Units per package
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**Protective shrouds, 50 mm system**

- The AH-GA set of support brackets must be ordered separately → Page 43

	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
	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
	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
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**Blanking strip, 50 mm system**

- To blank off unused spaces

	GA-RS-I43 GA-RS-I44	AS-RS-CI	002304	10
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**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)

	GST00	B-GST00-40-60/CI/1	224553	5
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**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

	RS.../I23E RS.../I43E RS.../I44E	VBS-RS	002307	5
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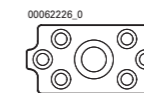
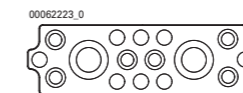
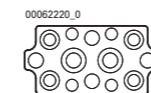
**Pre-assembled enclosures, individual enclosures with NH fuse switch-disconnectors**

- Metric cable entry knockouts in all sides
- IP65 degree of protection
- Integrated pressure-relief mechanism in the event of a short-circuit
- Transparent cover
- 4th conductor (PEN): either via terminal or fuse link depending on the type
- Fuse switch-disconnector fitted to sheet steel mounting plate
- Fixing straps for wall mounting
- Sealable cover fasteners


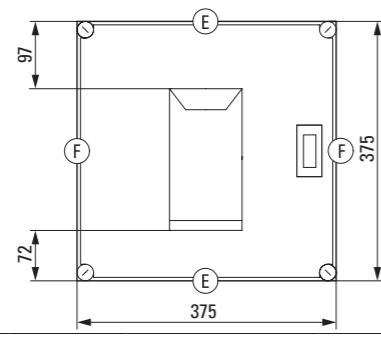

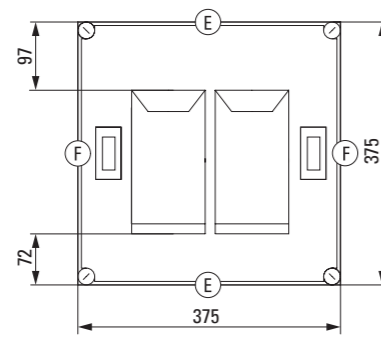

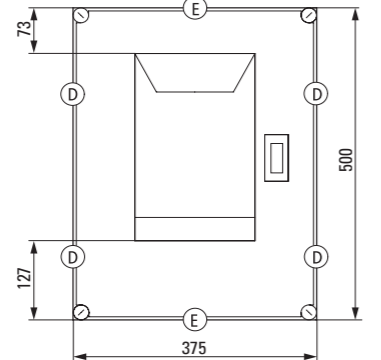

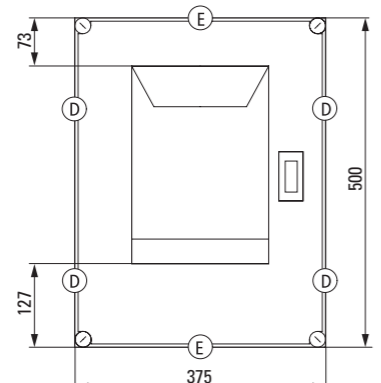
Dimensions mm	Rated operational current I <sub>e</sub> A	Rated operational voltage U <sub>e</sub> V AC	Fuse link Size	Terminal for the 5th conductor can be retrofitted (N conductor)	Enclosure depth mm	Type name	Article no.	Units per package
 4600DRW-165	155	690	NH00-3p	K50/1	150	XNH00-CI23E	184460	1
 4600DRW-166	160	690	NH00-3p	K95/1N/BR	150	XNH00-CI43E	184457	1
	160	690	NH00-4p	K95/1N/BR	150	XNH00-4-CI43E	EP-501516	1
 4600DRW-167	2 x 150	690	NH00-3p	K50/1	150	XNH00-2X-CI43E	184456	1
 4600DRW-168	160	690	NH00-3p	K95/1N/BR	150	XNH00-CI43E-G	184458	1
	160	690	NH00-4p	K95/1N/BR	150	XNH00-4-CI43E-G	EP-501517	1

**Notes**


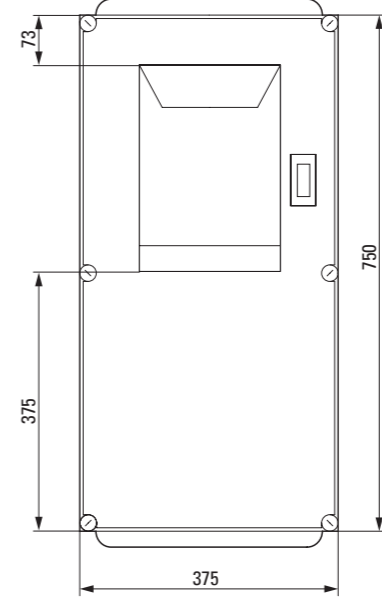

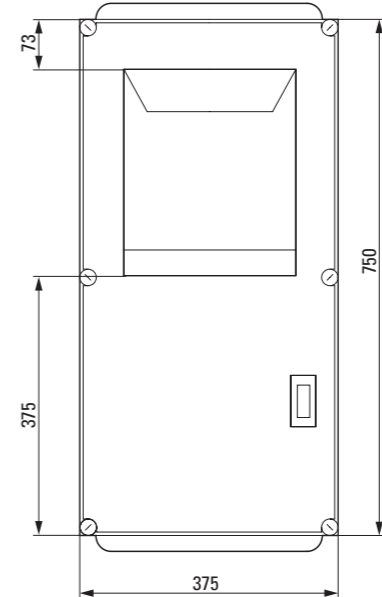
A B C D



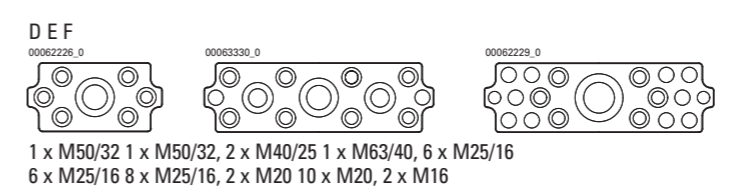
- 1 x M32/20 2 x M32/20 2 x M50/20 1 x M50/32
- 6 x M20 4 x M25/16 6 x M25/16 6 x M25/16
- 2 x M16 4 x M20, 4 x M16 8 x M20

Dimensions mm	Rated operational current I <sub>e</sub> A	Rated operational voltage U <sub>e</sub> 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	160	690	NH00-3p	K95/1N/BR	150	XNH00-CI44E	184459	1
4600DRW-169	160	690	NH00-4p	K95/1N/BR	150	XNH00-4-CI44E	EP-501518	1
								
wa_vt06716	2 x 150	690	NH00-3p	K95/1N/BR	150	XNH00-2X-CI44E	184455	1
4600DRW-170	2 x 150	690	NH00-4p	K95/1N/BR	150	XNH00-4-2X-CI44E	EP-501519	1
								
wa_vt07216	250	690	NH1-3p	K150/1	225	XNH1-CI45E	184461	1
4600DRW-171	250	690	NH1-4p	K150/1	225	XNH1-4-CI45E	EP-501520	1
								
wa_vt07316	390	690	NH2-3p	K240/1	225	XNH2-CI45E	184462	1
4600DRW-172	390	690	NH2-4p	K240/1	225	XNH2-4-CI45E	EP-501521	1
								

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

Dimensions mm	Rated operational current I <sub>e</sub> A	Rated operational voltage U <sub>e</sub> 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	390	690	NH2-3p	K240/1	225	XNH2-CI48E	184463	1
4600DRW-173	390	690	NH2-4p	K240/1	225	XNH2-4-CI48E	EP-501522	1
								
wa_vt07516	550	690	NH3-3p	K2X240/1	275	XNH3-CI48E	184464	1
4600DRW-174	550	690	NH3-4p	K2X240/1	275	XNH3-4-CI48E	EP-501523	1
								

Notes



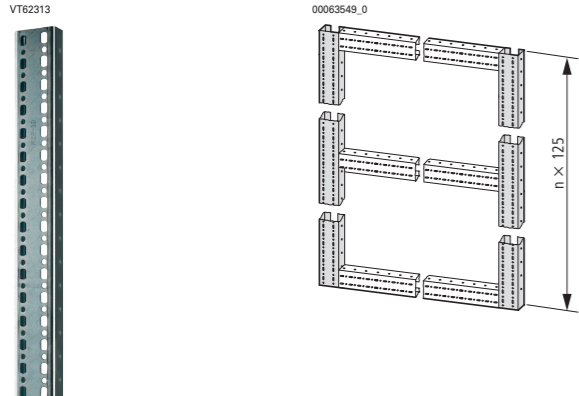
For use with	125 mm increments number	Section length mm	Type name	Article no.	Units per package
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**Sections for mounting frames**

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

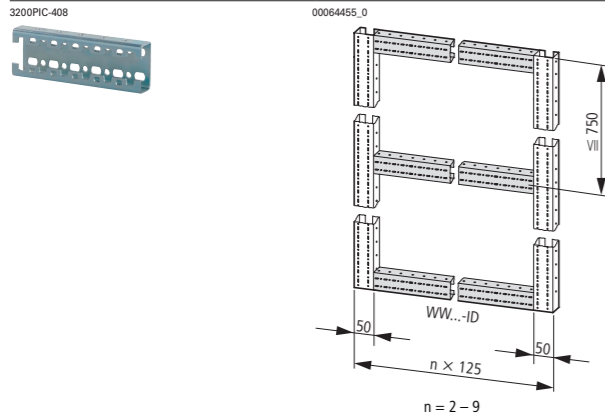
**For wall-mounted distribution boards**

**Vertical sections (outside)**



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

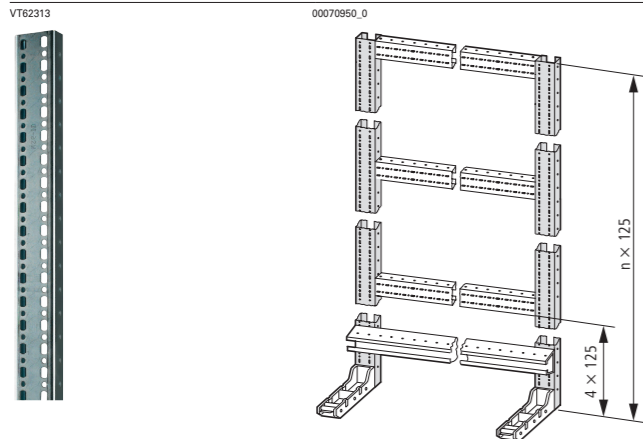
**Horizontal sections**



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)**

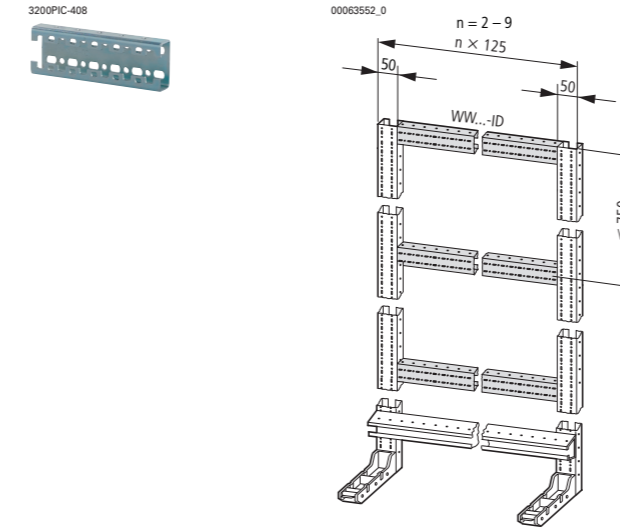


10 x 125	1250	WS10-ID	017913	1
11 x 125	1375	WS11-ID	020286	1
12 x 125	1500	WS12-ID	022659	5
13 x 125	1625	WS13-ID	025032	1
14 x 125	1750	WS14-ID	027405	1
15 x 125	1875	WS15-ID	029778	1
16 x 125	2000	WS16-ID	032151	1
17 x 125	2125	WS17-ID	034524	1
18 x 125	2250	WS18-ID	036897	1
19 x 125	2375	WS19-ID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

For use with	125 mm increments number	Section length mm	Type name	Article no.	Units per package
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**For wall-mounted distribution boards supported on the floor**

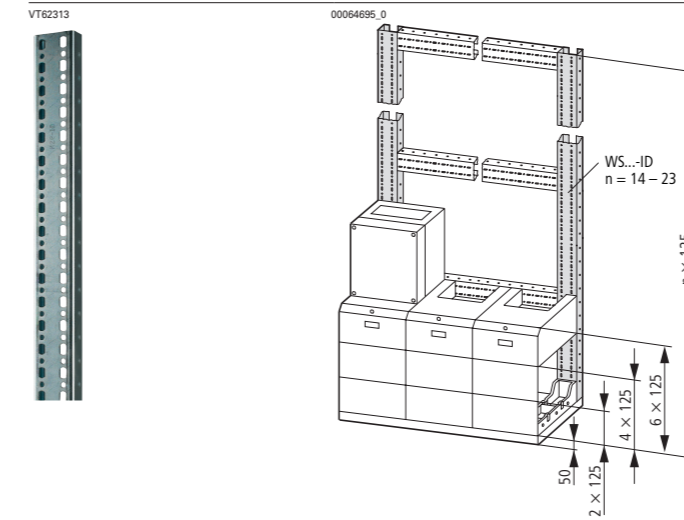
**Horizontal sections**



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

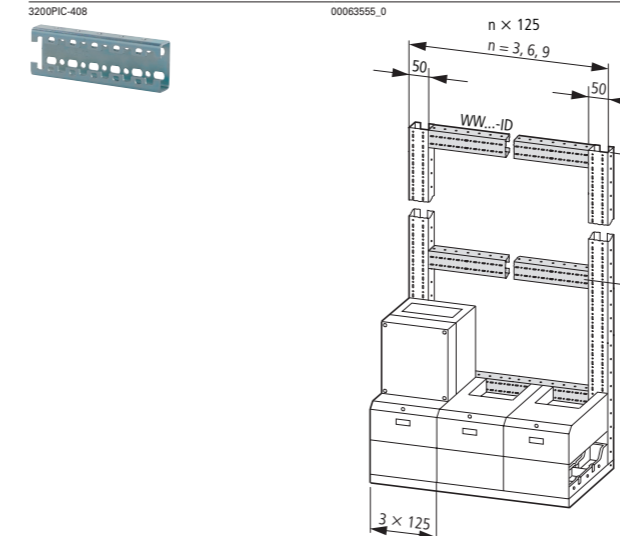
**For floor-mounted distribution boards with a width of 3 sections**

**Vertical sections (outside)**



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**

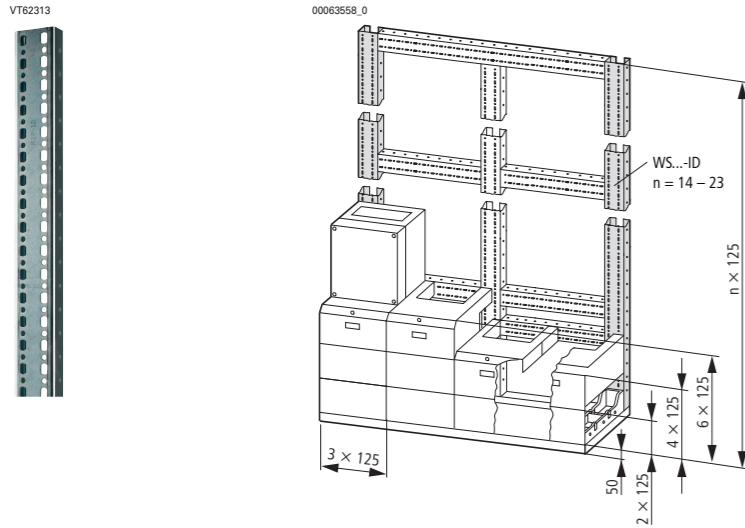


3 x 125	275	WW3-ID	044016	5
6 x 125	650	WW6-ID	051135	1
9 x 125	1025	WW9-ID	058254	1

For use with	125 mm increments number	Section length mm	Type name	Article no.	Units per package
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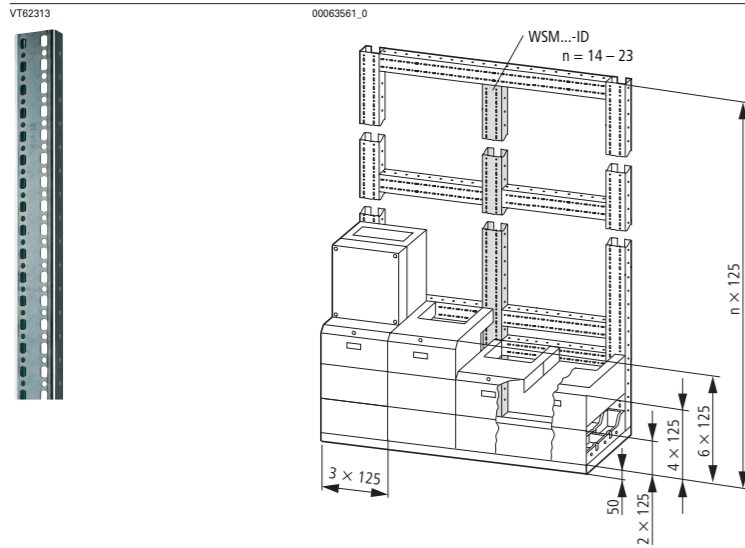
**For floor-mounted distribution boards with a width of 4 sections**

**Vertical sections (outside)**



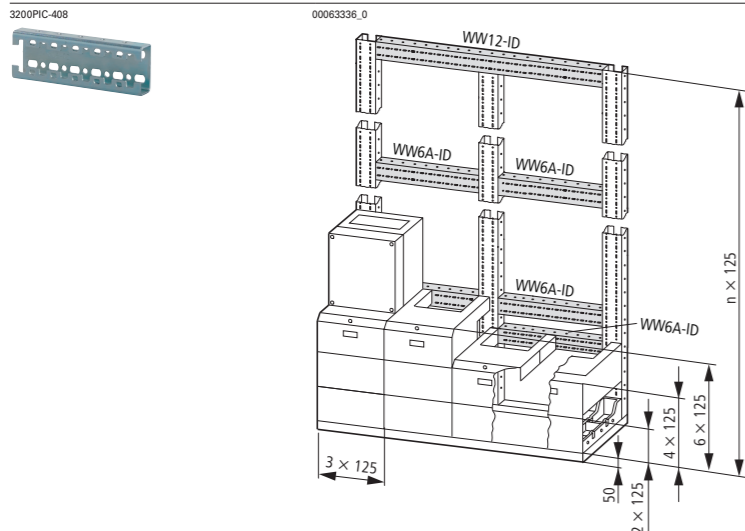
0006358_0	14 x 125	1750	WS14-ID	027405	1
	15 x 125	1875	WS15-ID	029778	1
	16 x 125	2000	WS16-ID	032151	1
	17 x 125	2125	WS17-ID	034524	1
	18 x 125	2250	WS18-ID	036897	1
	19 x 125	2375	WS19-ID	039270	1
	20 x 125	2500	WS20-ID	034525	1
	21 x 125	2625	WS21-ID	036898	5
	22 x 125	2750	WS22-ID	039271	5
	23 x 125	2875	WS23-ID	041644	1

**Vertical sections (center)**



0006351_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**

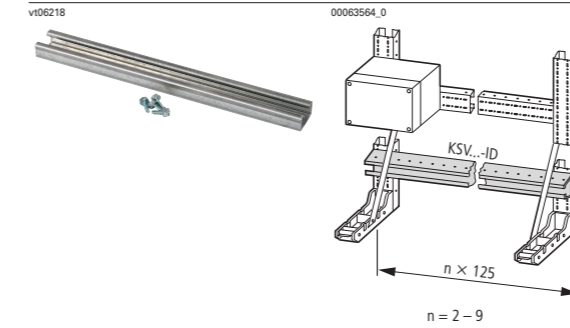


0006336_0	6 x 125	675	WW6A-ID	067747	1
	12 x 125	1400	WW12A-ID	070120	1

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

- For T clips



0006354_0	3 x 125	375	KSV3-CI	193456	1
	6 x 125	750	KSV6-CI	193457	1
	9 x 125	1025	KSV9-CI	193458	1

For use with	Type name	Article no.	Units per package
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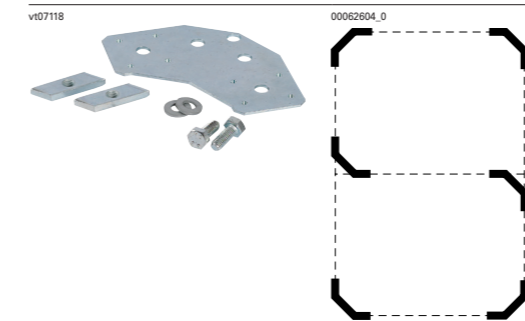
**Wall-fixing brackets**

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

0006918	To secure the mounting frame at a distance of 100 mm from the wall	WBW12-ID	001925	10
0006818	To secure the mounting frame at a distance of 25 mm from the wall Floor-mounted distribution board top mount.	WBW25-ID	081983	10
0006718	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

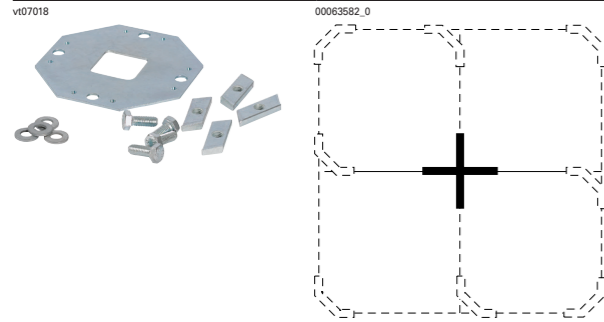


00062604_0	EVB-ID	002299	10
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For use with	Type name	Article no.	Units per package
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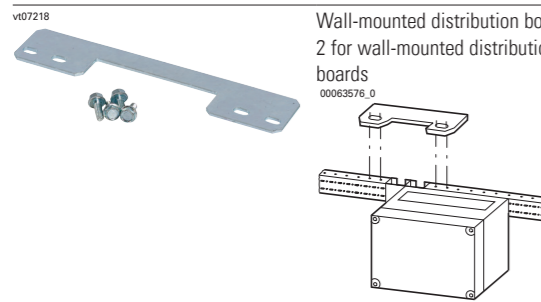
**Cross plates for wall-mounted and floor-mounted distribution boards**

- For connecting the horizontal and vertical sections
- Includes fasteners

 <p>00063582_0</p>	KVB-ID	002300	10
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**Assembly brackets**


- For connecting distribution boards, and for use with transport units
- Includes fasteners

 <p>00063576_0</p>	Wall-mounted distribution boards top and bottom on the WW... section 2 for wall-mounted distribution boards, 1 for floor-mounted distribution boards	ARB-ID	002302	10
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	For enclosure assembly at transport splits	VS-TR-CI	002330	25
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**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

	Wall-mounted distribution boards, floor-mounted distribution boards For mounting on the WS... vertical sections	TOB/XAT-CI	193464	1
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**Fixing screws**

	For fixing Ci enclosures to the W... wall-mounting brackets and the WS..., WW... sections.	LT284-M6X20-C	050325	100
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For use with	Type name	Article no.	Units per package
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**Plinths**

- For installing floor-mounted distribution boards
- RAL 7022
- Sheet steel, welded, galvanized, powder-coated

	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

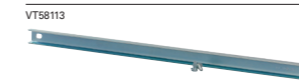
**Foot**

- For fixing enclosures to the floor

	To left and right of the SS5-ID plinth (for SS5-ID1500 also in the center)	FHF-ID	089103	2
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**Support struts**

- For floor-mounted distribution boards, to support the vertical sections on the floor

	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)

	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
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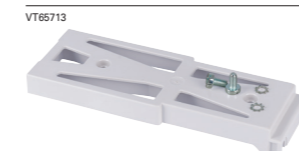
**Foot prop**

- Support brackets for the front plate (bottom)
- 1 per section width

	Between the externally fitted FHF-ID feet	SLHF-ID	091476	5
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**Support brackets**

- Support brackets for the top plate
- 2 per section width

		HDP-ID	093849	5
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For use with	Type name	Article no.	Units per package
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**Support brackets**

- Additional fastening for the HPD-ID support bracket

 <p>v107418</p>	For SS5-ID0375: None required For SS5-ID0750: 1 piece For SS5-ID1125: 2 pieces For SS5-ID1500: 2 pieces	SWHDP-ID	032152	5
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**Top plate**


- Also serves as support for the front plate (top)
- 1 per section width

 <p>v159713</p>		DP-ID	096222	5
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**Cable compartment cladding**

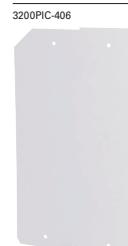
**Front plates**

- For covering the plinth compartment (cabling compartment)
- 1 per section width

 <p>v119418</p>	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

 <p>3200PIC-406</p>	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**

 <p>3200PIC-412</p>	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

For use with	Type name	Article no.	Units per package
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**Left-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

Cable entry	Drilling dimensions mm	External cable diameter mm	For use with NYM/NYY cables, 4-core mm <sup>2</sup>	Type name	Article no.	Units per package
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#### Metric diaphragm grommets

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

VT06508



M16	16.5	1-9	H03VV-F 3 x 0.75 mm <sup>2</sup> , NYM 1 x 16 / 3 x 1.5 mm <sup>2</sup>	KT-M16	216983	100
M20	20.5	1-13	H03VV-F 3 x 0.75 mm <sup>2</sup> , NYM 5 x 1.5 / 5 x 2.5 mm <sup>2</sup>	KT-M20	207602	100
M25	25.5	1-18	H03VV-F 3 x 0.75 mm <sup>2</sup> , NYM 4 x 10 mm <sup>2</sup>	KT-M25	207603	100
M32	32.5	1-25	H03VV-F 3 x 0.75 mm <sup>2</sup> , NYM 4 x 16 / 5 x 10 mm <sup>2</sup>	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 mm <sup>2</sup> , NYM 1 x 2.5 mm <sup>2</sup>	V-M12	215078	20
M16	16.5	4-5-10	H03VV-F 3 x 1.5 mm <sup>2</sup> , NYM 1 x 16 / 3 x 1.5 mm <sup>2</sup>	V-M16	215077	20
M20	20.5	6-13	H05VV-F 4 x 2.5 / 3 x 4 mm <sup>2</sup> , NYM 5 x 1.5 / 5 x 2.5 mm <sup>2</sup>	V-M20	206910	20
M25	25.5	9-17	H05VV-F 5 x 2.5 / 5 x 4 mm <sup>2</sup> , NYM 5 x 2.5 / 5 x 6 mm <sup>2</sup>	V-M25	206911	20
M32	32.5	13-21	NYM 5 x 10 mm <sup>2</sup>	V-M32	206912	10
M40	40.5	16-28	NYM 5 x 16 mm <sup>2</sup>	V-M40	209668	10
M50	50.5	21-35	NYM 4 x 35 / 5 x 25 mm <sup>2</sup>	V-M50	206913	5
M63	63.5	34-48	NYM 4 x 35 mm <sup>2</sup>	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 mm <sup>2</sup>	MFD25	215451	25
M32	–	4 x 3.5-7	H03VV-F 4 x 0.75 mm <sup>2</sup>	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

VT06608



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

Cable entry	Hole diameter mm	Type name	Article no.	Units per package
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#### Pressure compensating grommets with filter, metric or PG

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

VT06608



M25	25.5	KT-M25F	224556	50
PG16	23.5	KT16F	024404	100

Cable entry	Hole diameter mm	External cable diameter mm	For use with NYM/NYY cable, 4-core mm <sup>2</sup>	Type name	Article no.	Units per package
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#### IP69K ventilation cable gland

- Color: RAL 7035

VT02610



M20	20.5	6-13	H05VV-F4x2.5/3x4 mm <sup>2</sup> , NYM 5x1.5/5x2.5 mm <sup>2</sup>	V-M20-VENT	120814	1
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Cable entry	Type name	Article no.	Units per package
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#### IP66 pressure compensating plug, metric

- Color: RAL 7035

VT33209



M40x1.5	DAV-M40	107225	2
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#### IP55 pressure compensating plug, PG


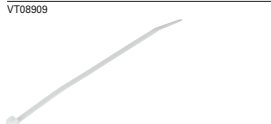
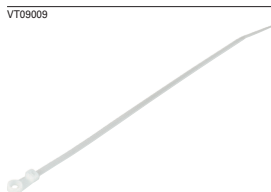
- Color: RAL 7035

VT01612



PG29	DA412	079219	2
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### Cable ducts and accessories

Length mm	Width mm	Bundle area mm	Special features	Tensile strength N	Type name	Article no.	Units per package
<b>ITB industrial cable binders</b>							
<ul style="list-style-type: none"> <li>For bundling and fastening of cables, cable looms, tubes, pipes, etc...</li> <li>Continuous ribbing up to point</li> <li>Temperature resistant from -40 to +85 °C</li> <li>Made from natural-colored PO 6.6, flame-resistant to UL 94 V2</li> <li>Resistant to oils, gasoline, salt water, solvents, mold</li> </ul>							
 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

### Conductor supports

For use with	Type name	Article no.	Units per package
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#### Insulated Conductor supports for copper band

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

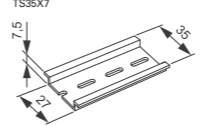
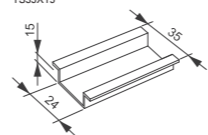
#### Section strip

 wa_v122613	Latch fastener	BZ248	076516	10
 wa_v134013	3 x 9 x 0.8 + BZ248	BZ249	078889	10
	6 x 9 x 0.8 + BZ248			
	4 x 16 x 0.8 + BZ248	BZ251	081262	10
	6 x 16 x 0.8 + BZ248			
	10 x 16 x 0.8 + BZ248			
	11 x 21 x 1 + BZ248	BZ252	083635	10

Dimensions mm	Description	Type name	Article no.	Units per package
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#### 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 mm <sup>2</sup> 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 mm <sup>2</sup> copper conductor as defined in IEC/EN 61439-1	TS35X15	050657	10

Circuit	Rated uninterrupted current $I_u$ A	Terminal capacities <sup>1)</sup> mm <sup>2</sup>	Copper band mm	Type name	Article no.	Units per package
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#### 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
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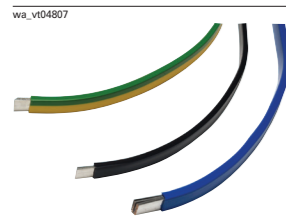
<sup>1)</sup>  Solid round conductors  
 Stranded round conductors  
 Flexible round conductors with correctly crimped ferrule  
 Copper band

## Copper band

Rated current range <sup>1)</sup>	Dimensions (number of layers x width x thickness of one layer)	Cross section <sup>2)</sup>	Color	Type name	Article no.	Units per package
A	mm	mm <sup>2</sup>				

### 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



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-BU	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

## Basic enclosures, selecting the enclosure size

### Basic enclosures, selecting the enclosure size

#### Enclosure dimensions

Width:  
187.5 mm  
375 mm

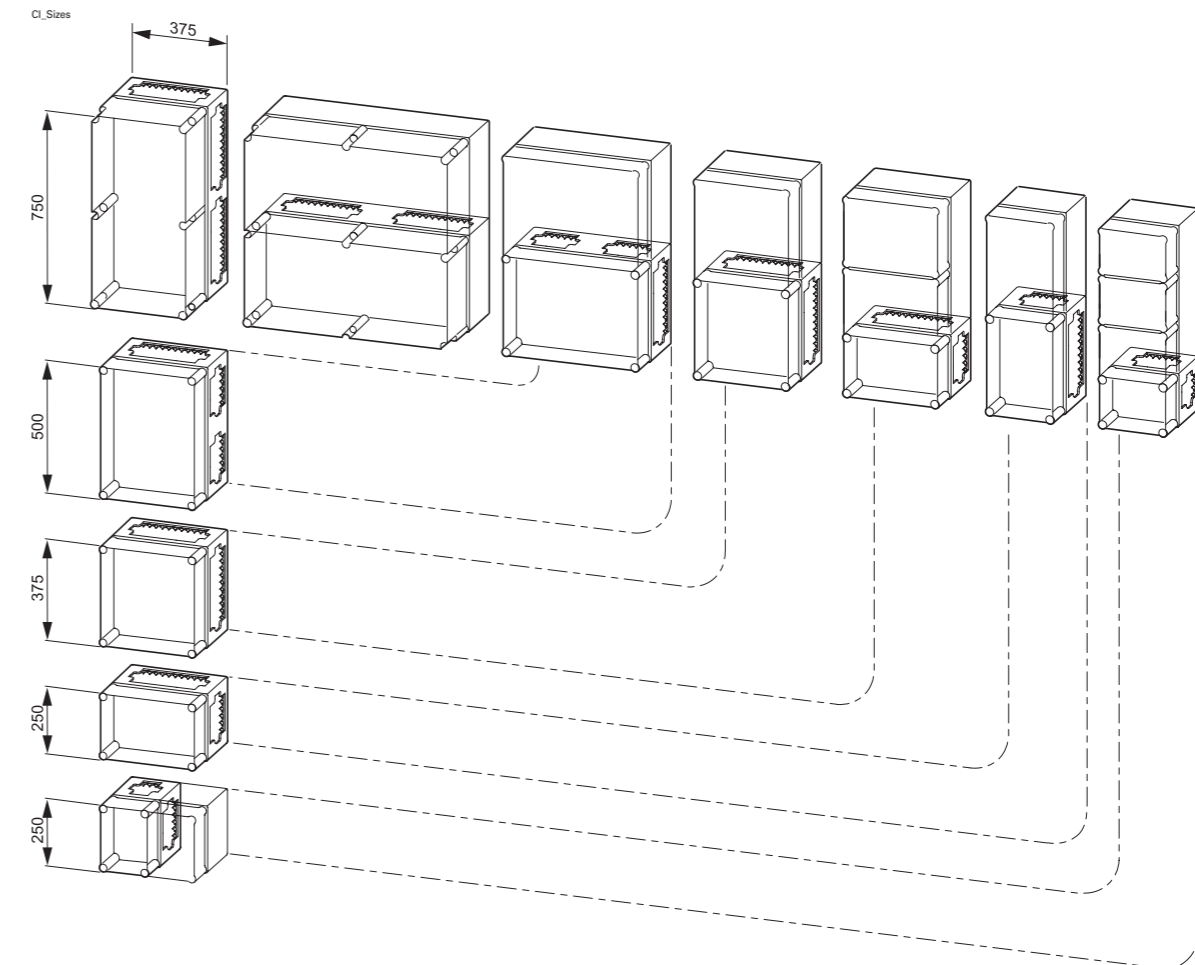
Height:  
250 mm  
375 mm  
500 mm  
750 mm

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

For distribution assemblies with section widths in 375 mm increments.

Rotating the enclosures by 90° enables section widths in increments of 250 mm.



Notes <sup>1)</sup> Continuous currents to DIN 43671, see technical data

<sup>2)</sup> Cross section: the device wiring instructions (e.g. terminal capacity of least ... mm<sup>2</sup>) must be observed

Basic enclosures, installing switchgear in panel enclosures, mounting plates

## 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		
<b>NH fuse switch-disconnectors</b>									
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
<b>NH fuse base</b>									
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
<b>Switch-disconnector, circuit breaker</b>									
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 <sub>b</sub> 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 <sup>1)</sup>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

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

Rated operational current I <sub>b</sub> A	Busbar cross-section		Distance between busbar centers mm	Mountable devices	Protective shroud against accidental contact
	L1, L2, L3 mm	N/PE mm			
160	12 x 5	12 x 5	60	D02-S0/63/3-R-27 D02-LTS/63/3-S60 XNH00-S125-BT-... XNH00-S160-BT1	GA-44-S60-... GA-43-S60-...
250	20 x 5	20 x 5 / 12 x 5	60	D02-S0/63/3-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-S0/63/3-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-S0/63/3-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

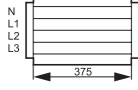
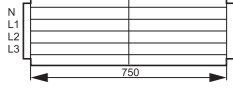
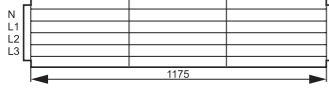
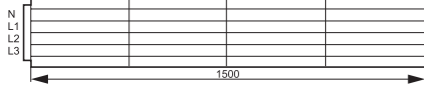
Busbar system in CI enclosure: assembled from individual modules for between 1 and 4 Ci enclosures	Rated operational current A	CI44-200	SL630...	CU12X5 <sup>1)</sup>	CU20X5 <sup>1)</sup>	CU20X10 <sup>1)</sup>	CU30X10 <sup>1)</sup>	FL4-X	BS4-CI
			160	1	2	3 x 360	-	-	-
	250	1	2	-	3 x 360	-	-	2	-
	400	1	2	-	-	3 x 360	-	2	-
	630	1	2	-	-	-	3 x 360	2	-
	160	2	4	3 x 720	-	-	-	2	1
	250	2	4	-	3 x 720	-	-	2	1
	400	2	4	-	-	3 x 720	-	2	1
	630	2	4	-	-	-	3 x 720	2	1
	160	3	6	3 x 1080	-	-	-	2	2
	250	3	6	-	3 x 1080	-	-	2	2
	400	3	6	-	-	3 x 1080	-	2	2
	630	3	6	-	-	-	3 x 1080	2	2
	160	4	8	3 x 1440	-	-	-	2	3
	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 <sup>1)</sup>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

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

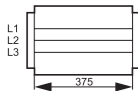
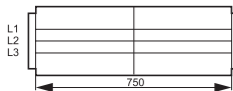
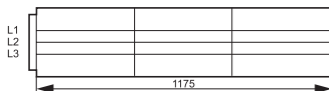
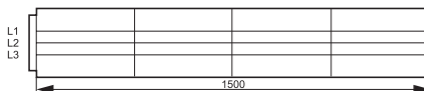
- Up to 5 poles
- CI..., SKA...

Busbar system in CI enclosure: assembled from individual modules for between 1 and 4 CI enclosures	Rated operation- nal current A	CI44-200	SH1005/4	CU30X10 <sup>1)</sup>	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 <sup>1)</sup> 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 outgoing terminals must be connected in parallel.

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

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

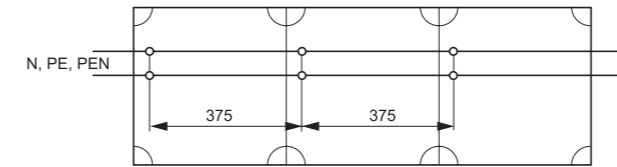
Busbar system in CI enclosure: assembled from individual modules for between 1 and 4 CI enclosures	Rated operation- nal current A	CI44-200	SH1603/4	CU40X10 <sup>1)</sup>	FL4-X	BS4-CI
	1600	1	2	3375	2	-
	1600	2	3	6750	2	1
	1600	3	4	10125	2	2
	1600	4	5	13500	2	3

Notes <sup>1)</sup> 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 outgoing terminals must be connected in parallel.

N, PE, PEN at 1600 A

## N, PE, PEN at 1600 A

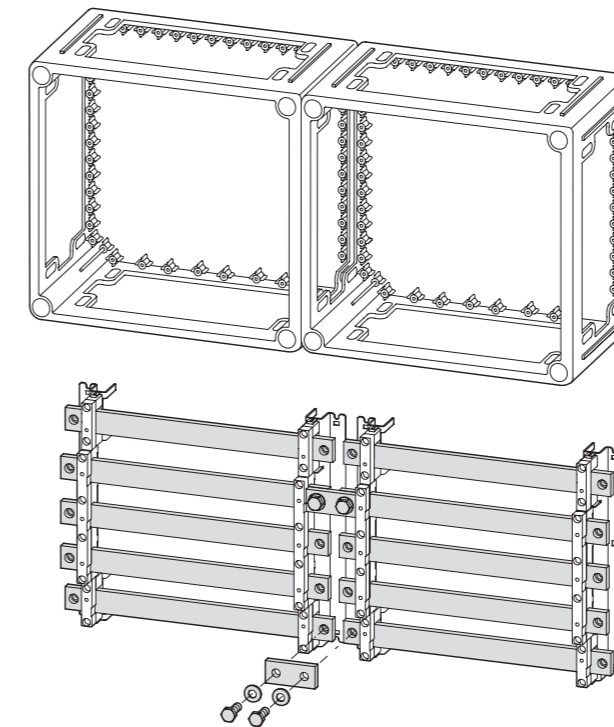
In the 1600 A busbar system, 2 x CU20X15 each are used as N, PE and PEN conductors. For an even current load, the busbars must be connected in parallel at a distance of no more than 375 mm.



## 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.



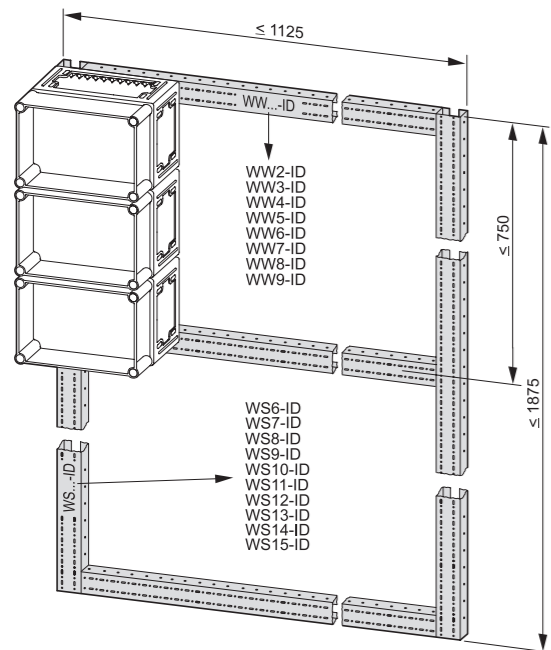
## Distance between busbar supports when using transport splits, busbar links, 50 mm system

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
SH0635/4	630 A, 3-pole	HSH-CI	125	K20X10	-
	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

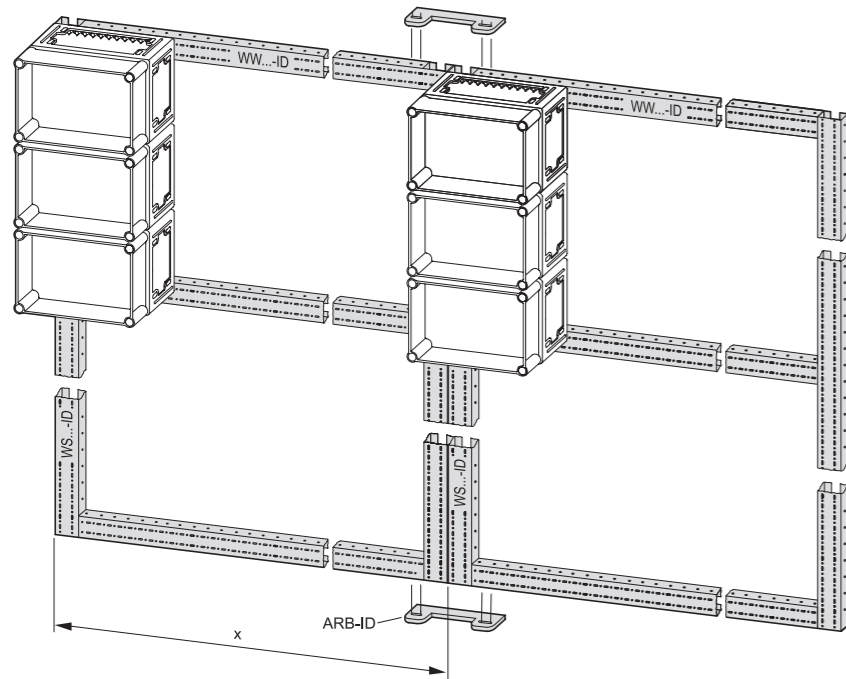
Horizontal sections:

#### 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).

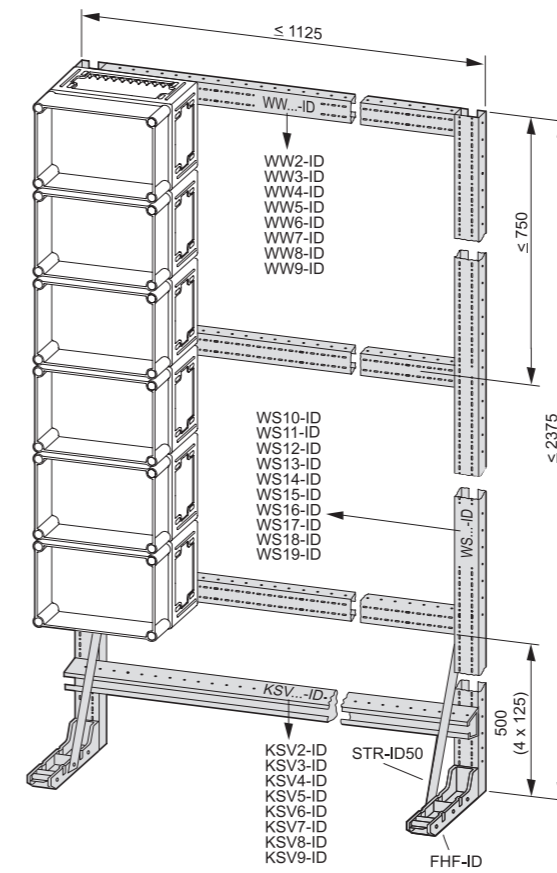


If wall-mounted distribution boards wider than 1125 mm are required, these are split into several transport units accordingly. The ARB-ID assembly bracket is used to mechanically interconnect the wall sections at the top and bottom. The enclosures are then joined together using the K-CI wedge-lock fasteners.

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

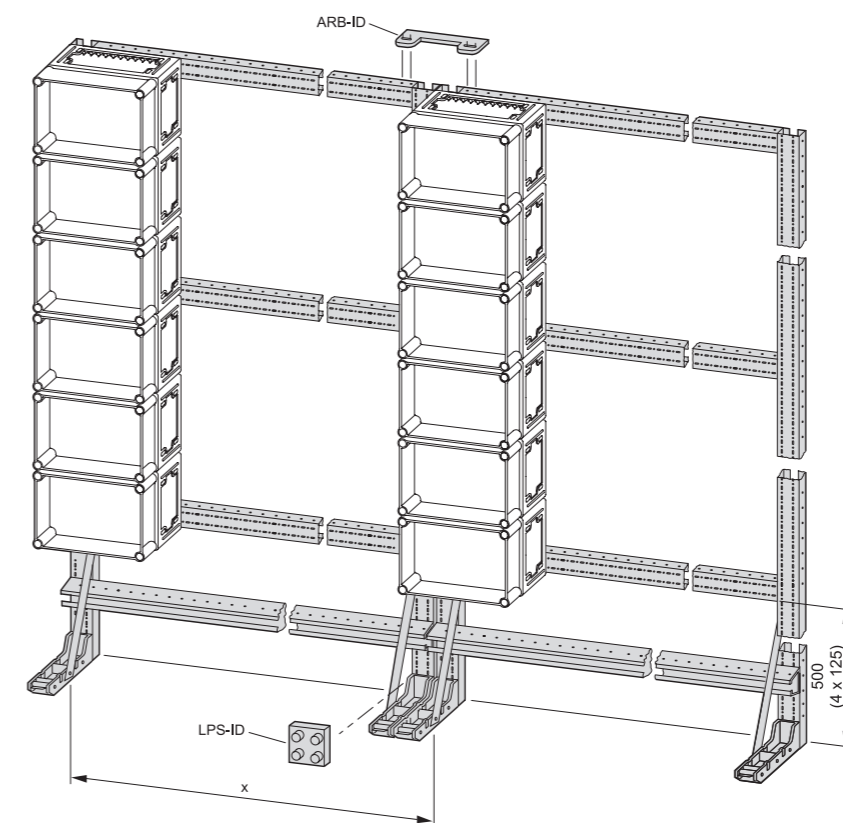
Horizontal sections:

#### 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).

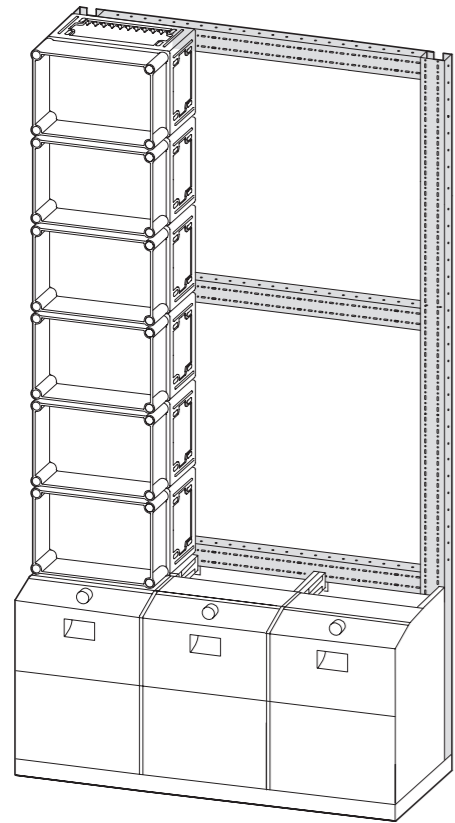


If larger wall-mounted distribution boards are required, these are split into several transport units accordingly. The ARB-ID assembly bracket and the LPS-ID straps are used to mechanically interconnect the wall sections.

x = Transport unit

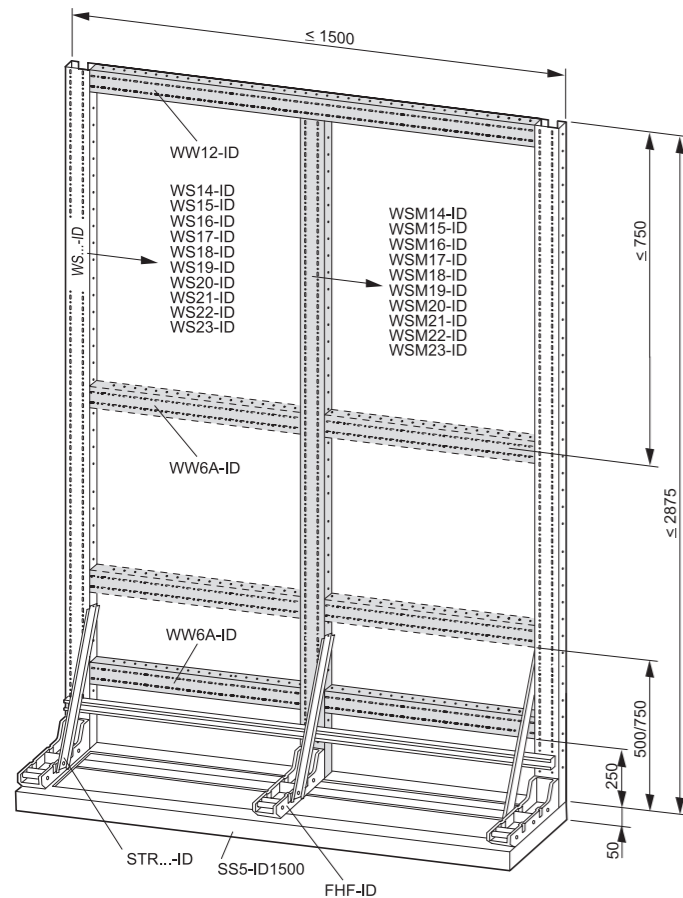
Selecting the WW...-ID, WS...-ID mounting frames

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**

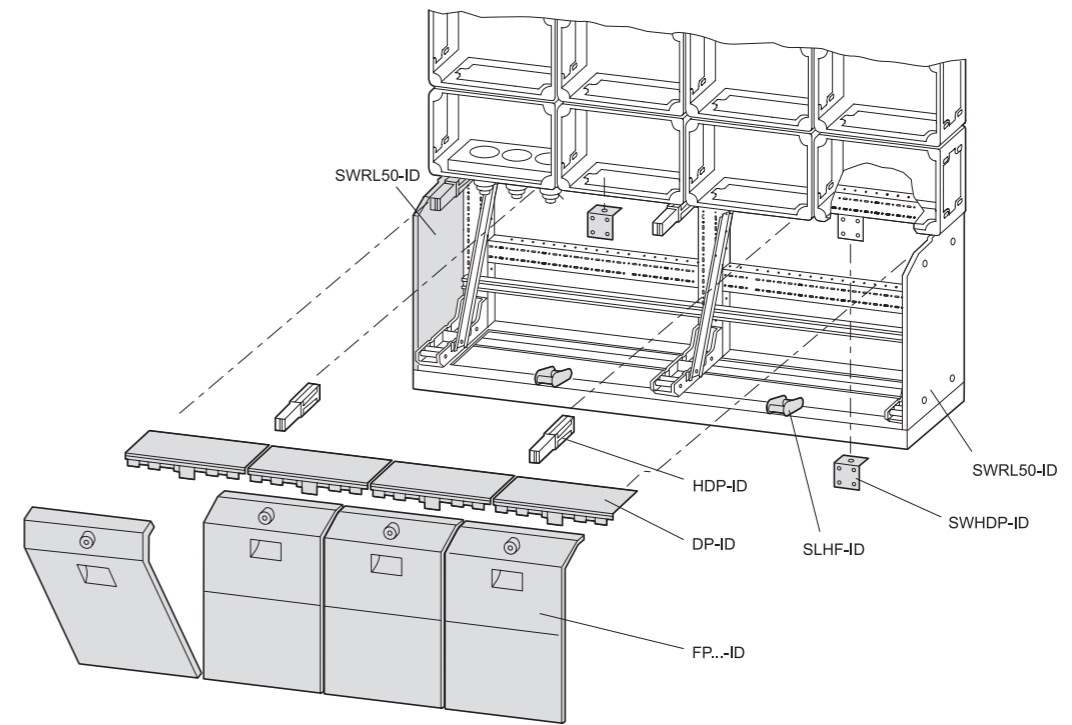
- Number of 125 mm increments = 14, 15, 16, 17, 18, 19, 20, 21, 22, 23
- Vertical **wall section** for center mounting

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.

Cable compartment cladding for floor-mounted distribution boards



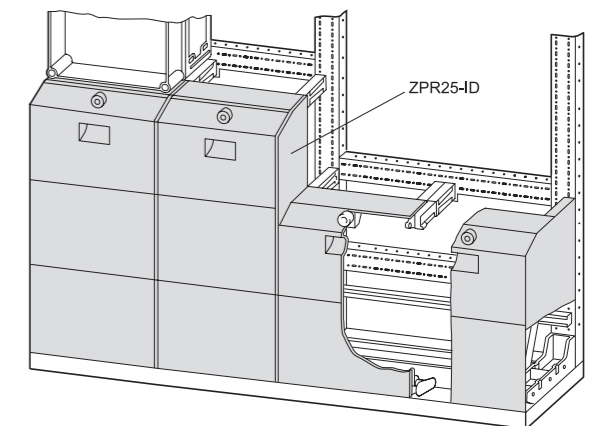
Floor-mounted distribution boards are mounted on a plinth. Three different cable compartment heights (250 mm, 500 mm and 750 mm, plus 50 mm for the plinth) are available for the insertion, sorting and marshaling of cables. In addition, cable anchoring rails for T clips can also be integrated inside the 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 <b>K 12 x 5-1</b>		Terminal type <b>K 12 x 5-2</b>	
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 <sup>1)</sup>	12 x 5	+ 16 - 25 mm <sup>2</sup>	12 x 5	+ 25 mm <sup>2</sup>

<sup>1)</sup> flexible with ferrule

### Connections to busbars (continued)

Type of connection	Terminal type <b>K 20 x 5</b>		Terminal type <b>K 20 x 10</b>		Terminal type <b>K 20 x 15</b>	
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 4 x 16 x 0.8 6 x 16 x 0.8 10 x 16 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 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 5 20 x 10 20 x 15	+ 10 x 16 x 0.8 11 x 21 x 1 + 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 20 x 10 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	20 x 5 20 x 10 20 x 15	+ (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 + (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 20 x 10 20 x 15	+ (4 x) 3 x 9 x 0.8 (4 x) 6 x 9 x 0.8 (4 x) 9 x 9 x 0.8 (4 x) 3 x 9 x 0.8 (4 x) 6 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

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)
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 mm <sup>2</sup>  (1 x) L-KL-R max. 200 A  (2 x) L-KL-R max. (2 x) 200 A
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 mm <sup>2</sup>  (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 mm <sup>2</sup>  (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 + 1.5 - 6 mm <sup>2</sup>  (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 mm <sup>2</sup>  (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 $U_i = 1000 \text{ V AC}/1500 \text{ V DC}$ 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	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 $U_i = 1000 \text{ V AC}/1500 \text{ V DC}$ 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 $I_{cc} = 50 \text{ kA}$ .
60 mm busbar system	
CU copper busbar	12x5      20x5      20x10      30x10
Rated operational current	160 A      250 A      400 A      630 A
Rated short-time withstand current $t = 1 \text{ s}; I_{cw}$	9 kA      15 kA      33 kA      37 kA
Rated peak withstand current $I_{pk}$	43 kA      49 kA      61 kA      78 kA
Distance between busbar supports	290 mm      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 $t = 0.1 \text{ s}; I_{cw}$	20 kA      25 kA      35 kA      40 kA      80 kA      80 kA
Rated short-time withstand current $t = 1 \text{ s}; I_{cw}$	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 $\leq 375 \text{ mm}$
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	
Partially resistant to	Acids < 10 %, mineral oil, alcohol, fats, saline solutions
Non-resistant to	Acids > 10 %
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

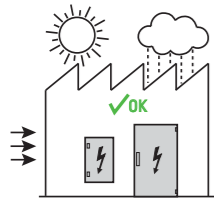
Standards	VDE approval in accordance with DIN EN 60947-7-1 The product complies with the EC's RoHS Directives
Color	RAL 7035 light gray
Materials	
Terminal body	Untreated brass (CuZn39Pb2)
Enclosure	PA 6 (halogen-free)
Screws	Steel, Zn thick-film passivated
Flame resistance	Self-extinguishing
<b>Mechanical values</b>	
Stripping lengths 50 mm <sup>2</sup>	16 mm
Hexagon socket head screws	5 mm
Dimensions W x H x D (mm)	24.8 x 40.5 x 60.8
<b>Electrical values</b>	
Rated uninterrupted current	150 A
Rated operational voltage	690 V
Terminal capacity	
Solid round copper conductor, stranded round copper conductor	2 x 50 mm <sup>2</sup> 2.5 - 50 mm <sup>2</sup>
Flexible round copper conductor with ferrule	2.5 - 35 mm <sup>2</sup>
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

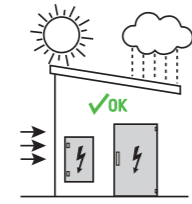
Radiated heat dissipation	Type	Dimensions W x H x D mm	Heat dissipation W
Max. radiated heat dissipation of a Ci insulated enclosure in separate mounting, ΔT = 45 K.	CI23...-125	187.5 x 250 x 150	32
	CI23...-150	187.5 x 250 x 175	36
	CI43...-125	250 x 375 x 150	46
	CI43...-150	375 x 250 x 175	50
	CI43...-200	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	
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.

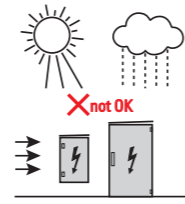
## Installation site conditions



**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, benzene, diesel oil, 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

Rated current range [A]	Dimensions Number of layers x width x thickness of one layer [mm]	Cross-section [mm <sup>2</sup> ]	Continuous current AC			Classification	Color
			X = 65 °C	X = 85 °C	X = 105 °C		
			ΔT = 30 K	ΔT = 50 K	ΔT = 70 K		
100	3 x 9 x 0.8	21.6	98 A	<b>130 A</b>	152 A	CU-BAND3X9X0.8-...	BK, BU, GNYE
160	6 x 9 x 0.8	43.2	147 A	<b>196 A</b>	228 A	CU-BAND6X9X0.8-...	BK, BU, GNYE
200	9 x 9 x 0.8	64.8	179 A	<b>238 A</b>	277 A	CU-BAND9X9X0.8-...	BK, BU, GNYE
250	6 x 16 x 0.8	74.4	252 A	<b>335 A</b>	391 A	CU-BAND6X16X0.8-...	BK, BU, GNYE
400	10 x 16 x 0.8	128	330 A	<b>439 A</b>	512 A	CU-BAND10X16X0.8-...	BK, BU, GNYE
400	5 x 24 x 1	120	369 A	<b>491 A</b>	572 A	CU-BAND5X24X1-...	BK
630	11 x 21 x 1	231	563 A	<b>749 A</b>	873 A	CU-BAND11X21X1-...	BK, BU, GNYE
630	8 x 24 x 1	192	483 A	<b>642 A</b>	749 A	CU-BAND8X24X1-...	BK
630	10 x 24 x 1	240	559 A	<b>743 A</b>	866 A	CU-BAND10X24X1-...	BK
630	5 x 32 x 1	160	477 A	<b>634 A</b>	739 A	CU-BAND5X32X1-...	BK
800	10 x 32 x 1	320	721 A	<b>959 A</b>	1118 A	CU-BAND10X32X1-...	BK
1000	10 x 40 x 1	400	850 A	<b>1131 A</b>	1318 A	CU-BAND10X40X1-...	BK
1250	10 x 50 x 1	500	1020 A	<b>1357 A</b>	1581 A	CU-BAND10X50X1-...	BK
1600	10 x 80 x 1	800	1500 A	<b>1995 A</b>	2325 A	CU-BAND10X80X1-...	BK

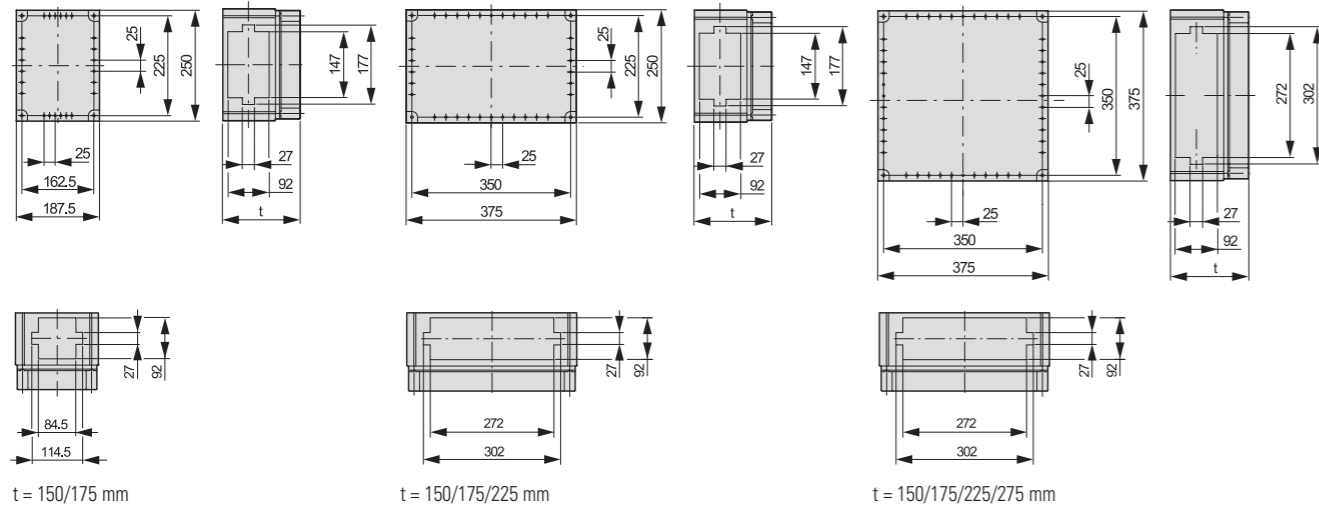
The rated currents and wiring instructions of the connected devices (e.g. terminal capacity of least ... mm<sup>2</sup>) must be observed.  
Multiplication factor of 1.72 if 2 x CU-BAND are used in parallel.  
Multiplication factor of 2.25 if 3 x CU-BAND are used in parallel, in accordance with DIN 43671.

## Insulated enclosures

CI23...  
RS.../123...

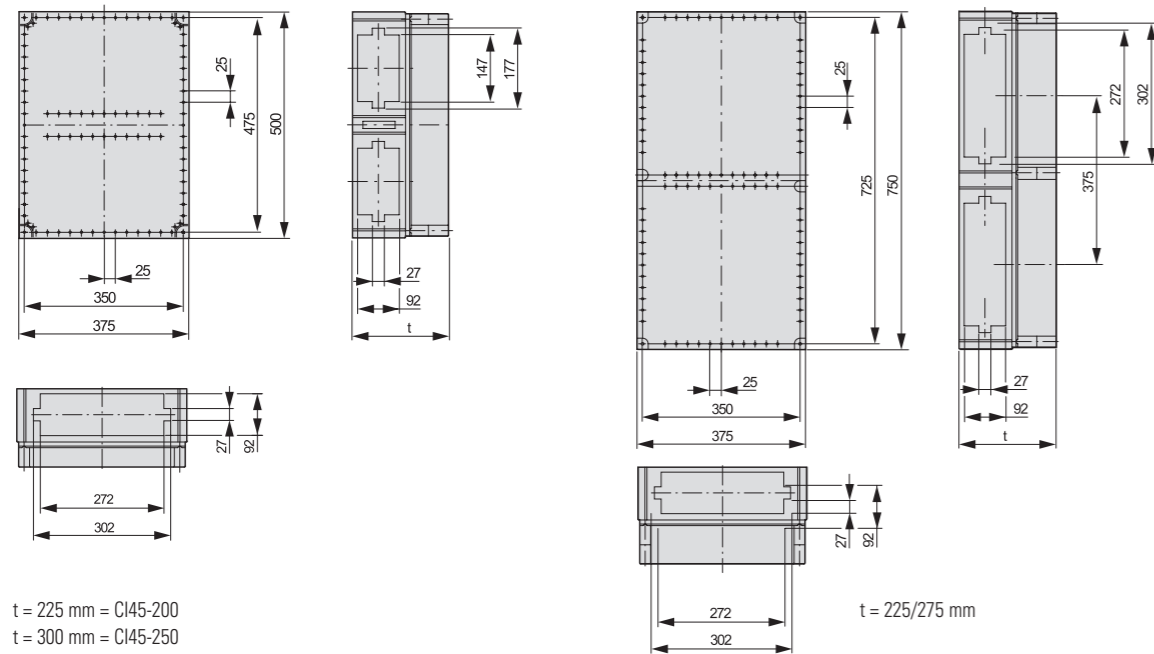
CI43...  
KST43...  
ZG/143E-G...  
RS.../143...

CI44...  
KST44...  
SKA...-144, ZG/144E...



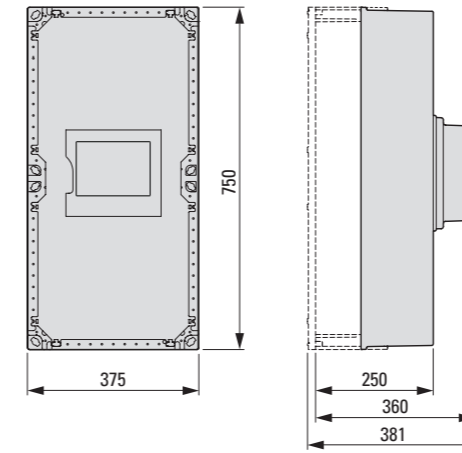
CI45...  
ZG/145E...

CI48...  
KST48...  
ZG/148...



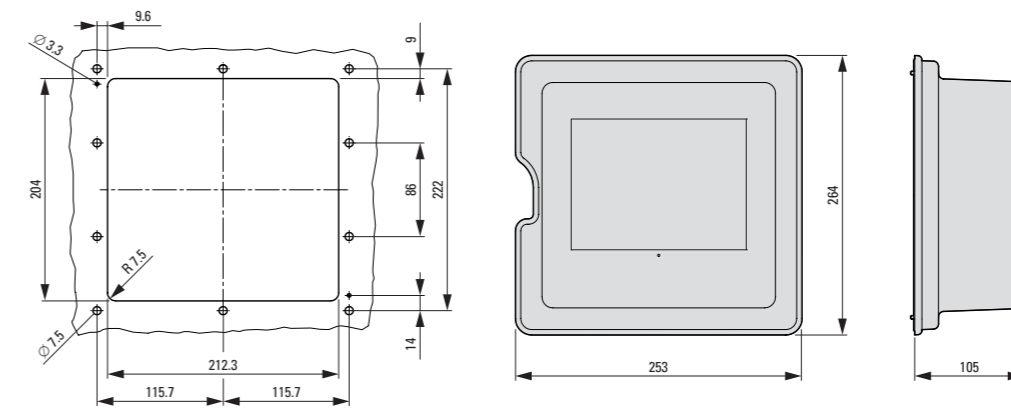
## Insulated enclosures

D250-CI48-NZM-RTR



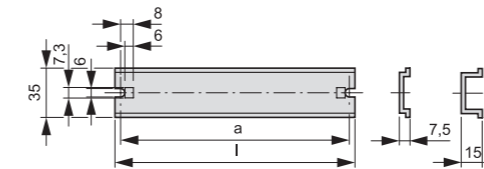
## Enclosure shroud

NZM-RTR



## Mounting rails

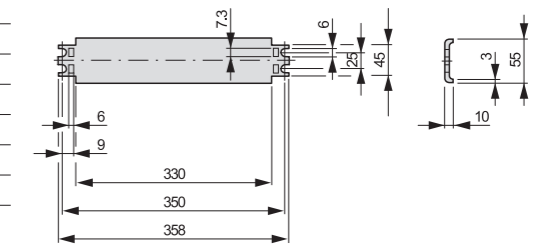
CL...



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

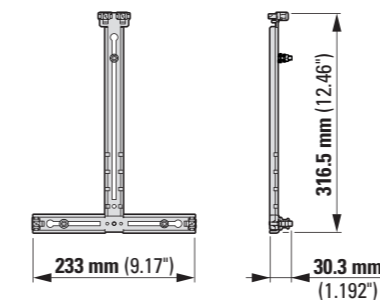
## Module mounting rail

ML-4-CI

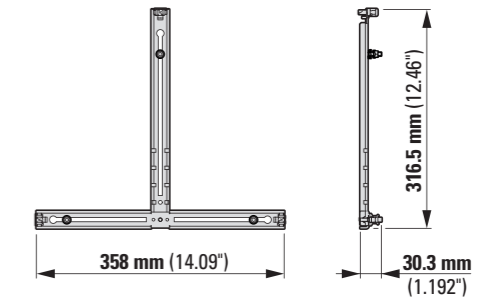


## Meter rail

ZK-43-CI

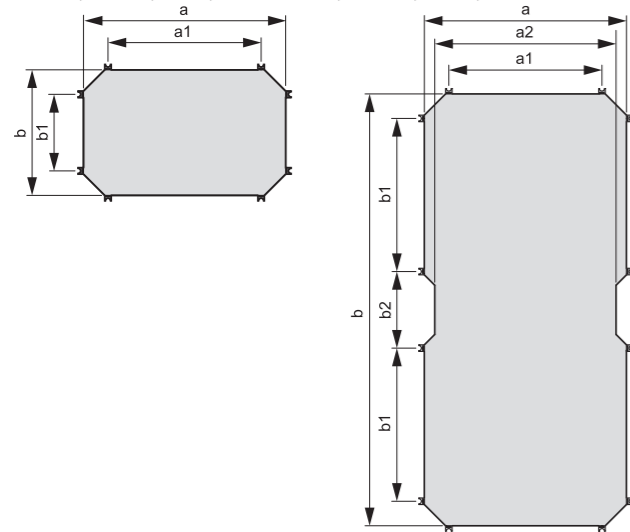


ZK-44-CI



Mounting plates

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

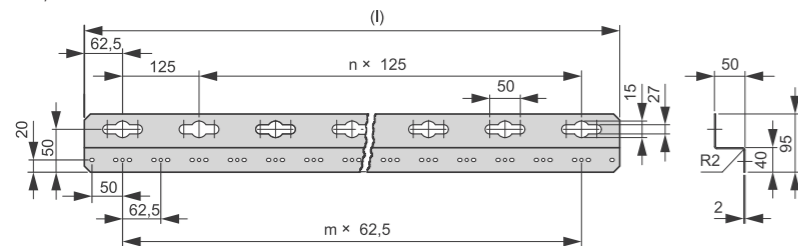


Type	a	b	a1	b1	a2	b2
M3-CI23, IM4-CI23, MM-CI	142.5	205	62.5	125	-	-
M3-CI43, IM4-CI43, MM-CI	330	205	250	125	-	-
M3-CI44, IM4-CI44, MM-CI	330	330	250	250	-	-
M3-CI45, MM-CI	330	455	250	375	-	-
M3-CI48, IM4-CI48, MM-CI	330	705	250	250	296	125

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

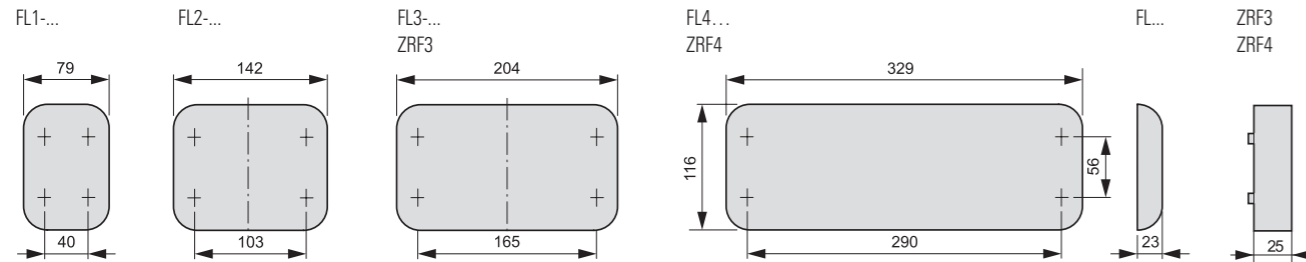
Wall-fixing brackets

W.../...



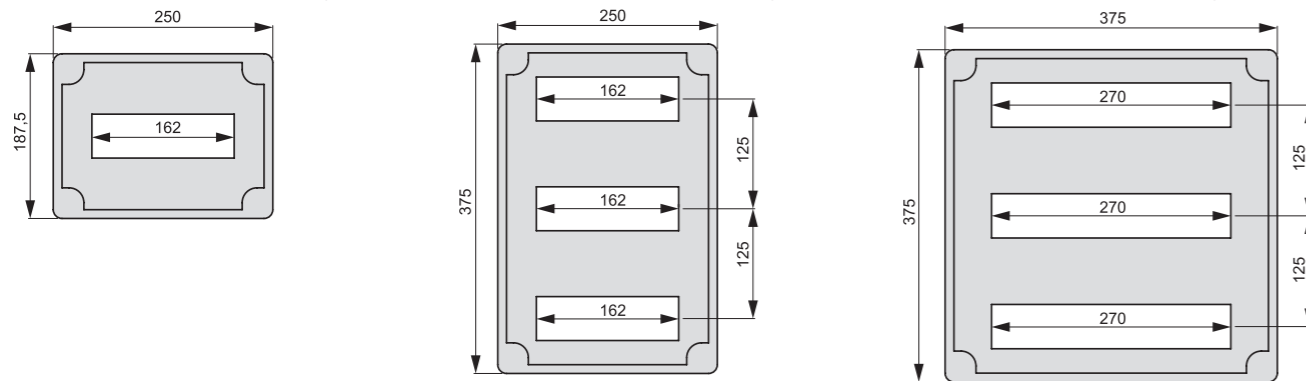
Type	l	n	m
W4/8-CI	625	4	8
W6/8-CI	875	6	12
W8/16-CI	1125	8	16
W10/20-CI	1375	10	20
W16/32-CI	2125	16	32

Flanges, spacers



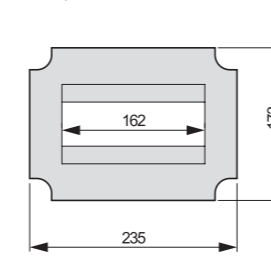
MCB enclosures, MCB distribution board enclosures

AE/123 AV/123 identical dimensions, but rotated by 90°  
 AE/143 AV/143 identical dimensions, but rotated by 90°  
 AE/144 AV/144 identical dimensions, but rotated by 90°

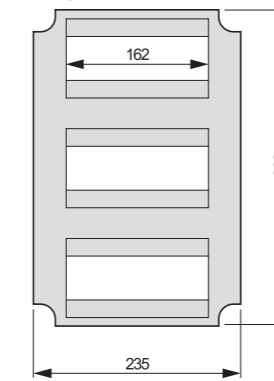


Protective shrouds against accidental contact

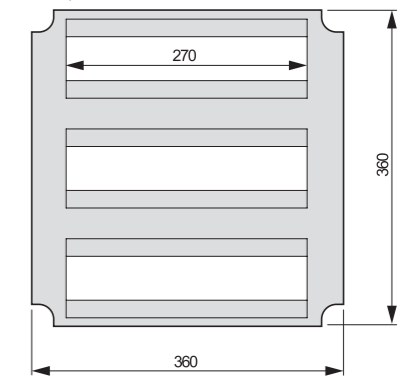
GA-0/123



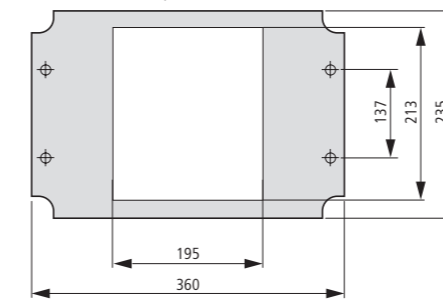
GA-0/143



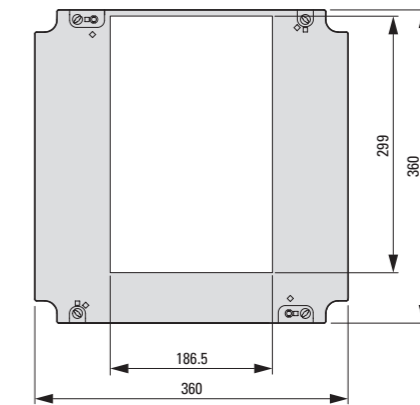
GA-0/144



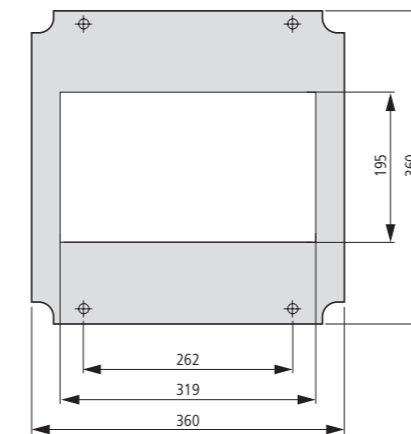
GA-43-S60-XNH00/D02



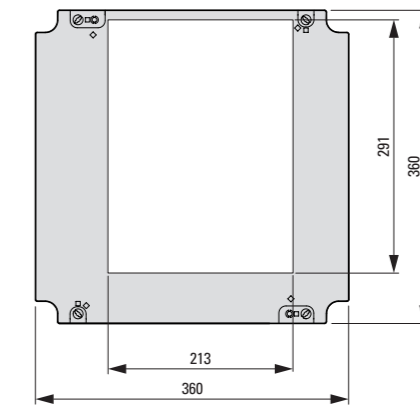
GA-44-S60-XNH1



GA-44-S60-XNH00/D02

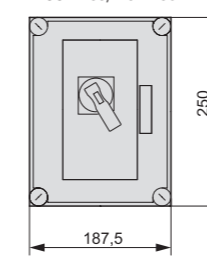


GA-44-S60-XNH2

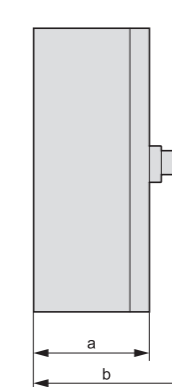
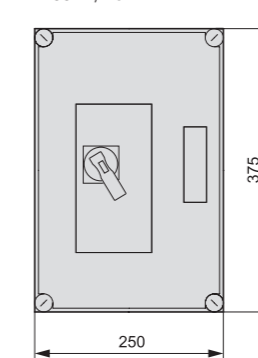
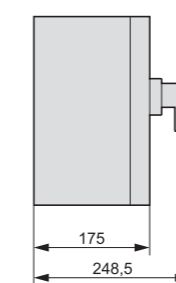


Prepared MCCB enclosures

MCCB1-63/123E-150



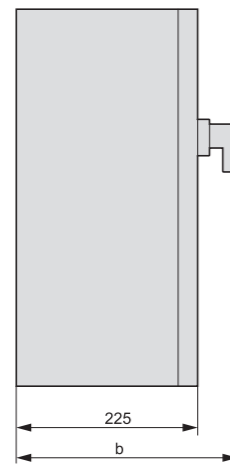
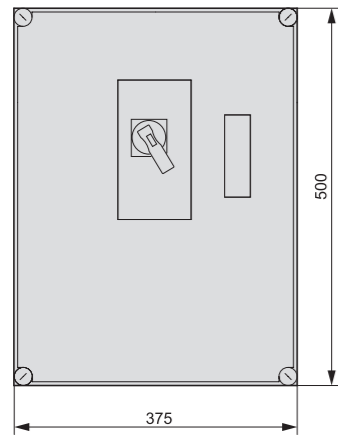
MCCB.../143E-...



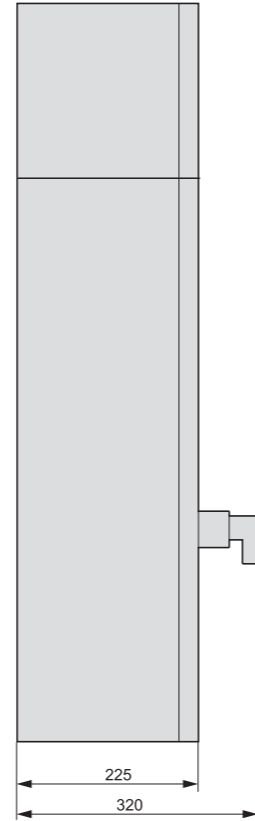
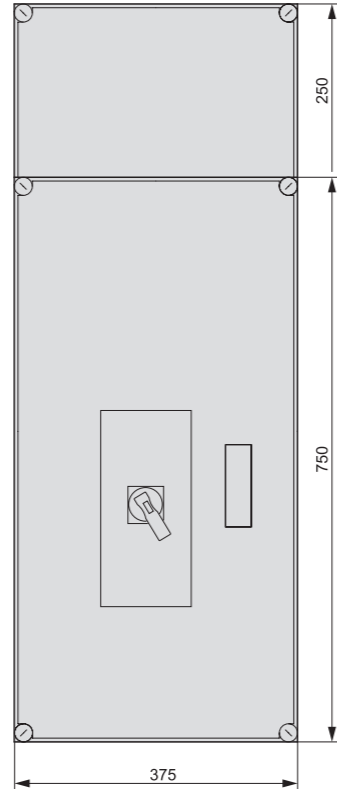
Type	a	b
MCCB1-125/143E-150	175	248.5
MCCB1-160/143E-200	225	298.5
MCCB2-200/143E-200	225	298.5

## Prepared MCCB enclosures

MCCB.../145E-200



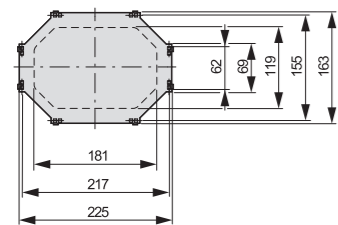
MCCB3-630/148/143E-200



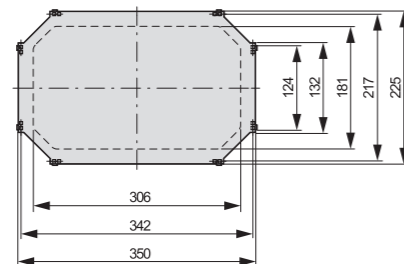
Type	b
MCCB2-250/145E-200	298.5
MCCB3-400/145E-200	320

## Doors

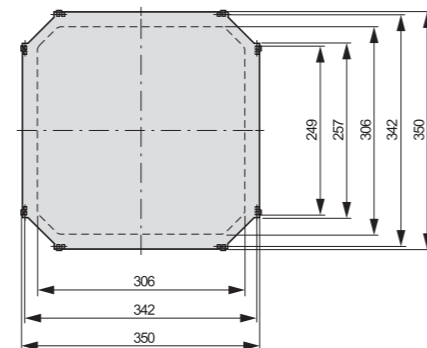
T-CI23



T-CI43

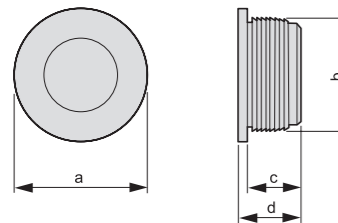


T-CI44



## Metric diaphragm grommets

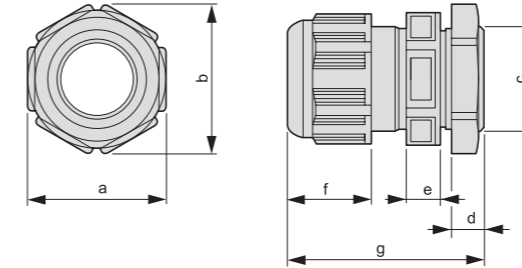
KT-M...



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

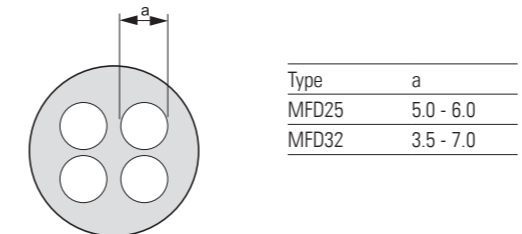
V-M...



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

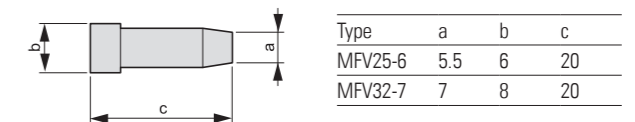
MFD...



Type	a
MFD25	5.0 - 6.0
MFD32	3.5 - 7.0

## Stoppers

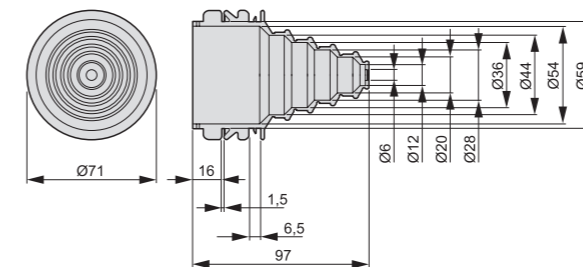
MFV...



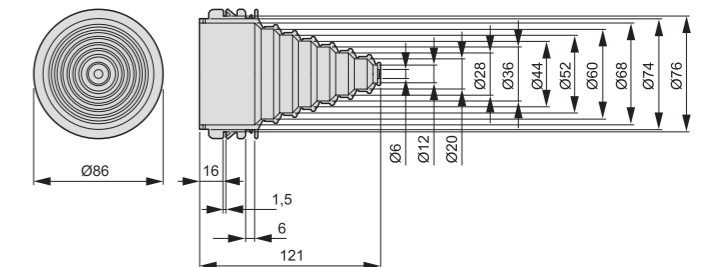
Type	a	b	c
MFV25-6	5.5	6	20
MFV32-7	7	8	20

## Stepped cable grommets

KT3

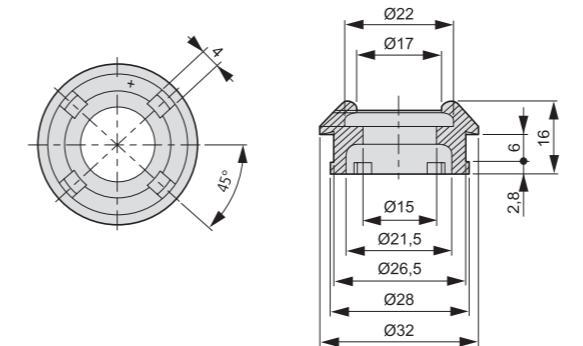


KT4

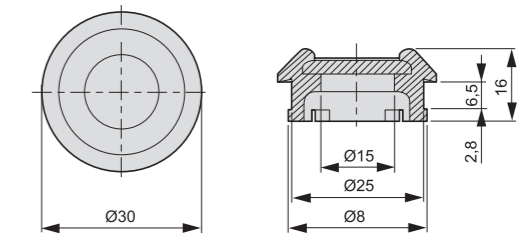


## Pressure compensating grommets

KT-M25F

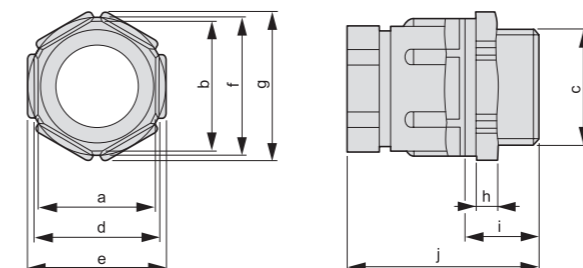


KT16F



## Ventilation cable glands

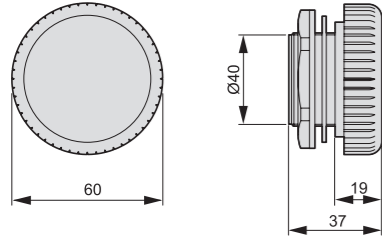
STB-M...F



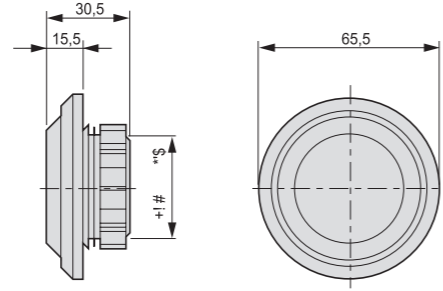
Type	c	h	i	j	g	f	b	a	d	e
STB-M20F	20	5	15	40	29	27	23	21	24	27
STB-M25F	25	6	15	45	35.5	35.5	33.4	30	33	32

## Pressure compensating plugs

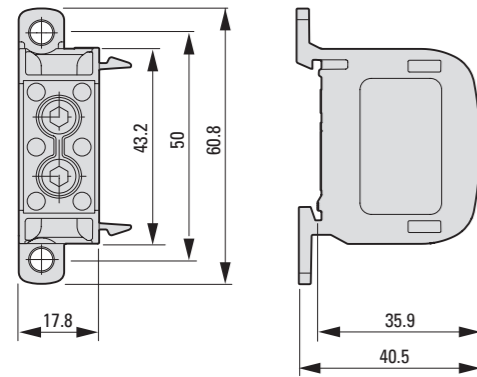
DAV-M40



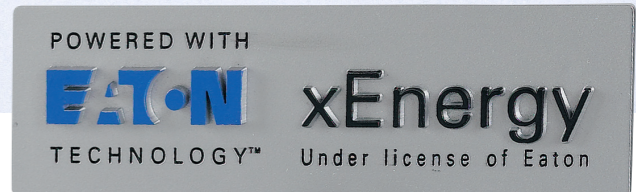
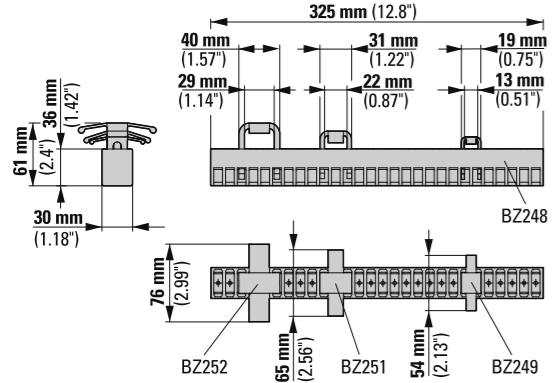
DA412



## Insulated individual terminal K50/1



## Insulated conductor supports for copper band



# 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.

To learn more about the xEnergy Partner Program please contact your nearest Eaton Sales Office.

Visit us at [www.xenergy-partner.com](http://www.xenergy-partner.com)

## Benefits

- Listing as a Licensed Partner on the Eaton website
- Access to BAs, ILs (building and assembly instructions), Configurator, certificates and technical data sheets
- Continuously up-dated product information
- Software downloads
- Installation instructions
- Information material for your customers, such as catalogues and flyers
- Certificates of conformity and guidelines regarding IEC standards

# 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 control-gear 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.



**Low Voltage Motor Control and Power Distribution Solutions**

# xEnergy Elite

**Eaton's high-performance IEC motor control center**

- Verified by testing, IEC 61439-2
- Withdrawable and removable technology
- Front and rear access



**xEnergy Elite protects people and assets, guaranteeing business continuity, durable and scalable**

**xEnergy Elite is Eaton's low voltage motor control and power distribution solution which offers performance data, arc risk mitigation, and continuous switchgear health checks that optimizes safety, reliability and efficiency.**

**With xEnergy Elite motor control and power distribution solutions you can optimize your processes and minimize risk.**

**Protecting people and assets**

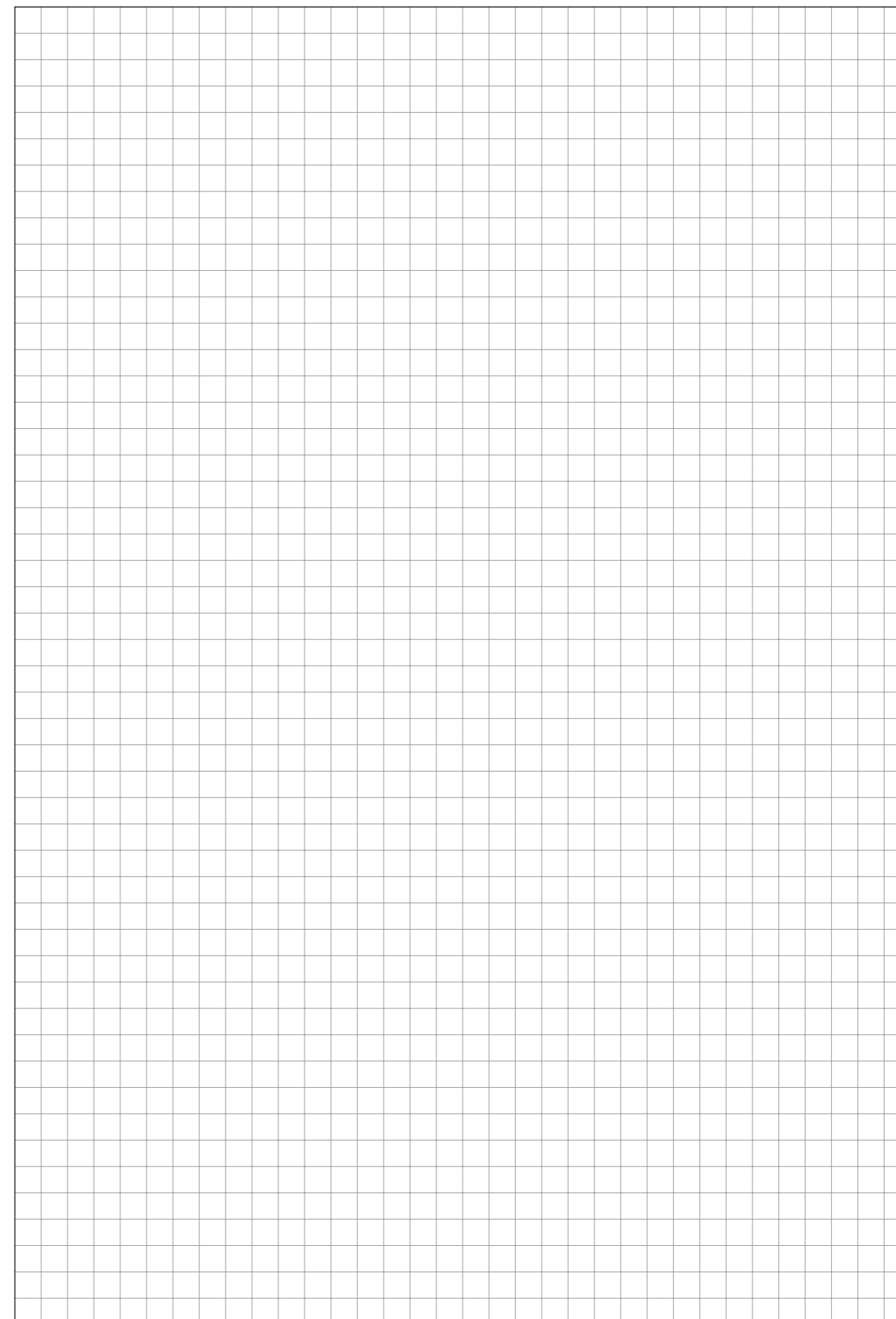
- Certified arc fault protection in accordance with IEC / TR 61641 criteria 1-7
- Fully insulated arc-free main and distribution busbars
- Elite contact system provides complete ingress protection in all drawer unit positions, Disconnect - Test - Connected
- Genuine personnel protection with ARCON® - Arc Fault Protection System
- Reduced energy levels and hazards during service operations with Arc-flash Reduction Maintenance System™ (ARMS)
- Zone Selective Interlocking (ZSI) for reducing thermal and dynamical load
- Diagnose - 24/7 Temperature Monitoring System

**Business continuity**

- Verified and tested to IEC 61439-2
- Modification without system shutdown
- Servicing of functional units during operating conditions
- "Maintenance-free" busbar connection and racking system
- Elite contact system design
- Continuous switchboard monitoring for fault prevention
- Eaton C445 motor management relays with industry-leading diagnostic capabilities and analytics
- Breaker Health diagnostics
- Global supported platform with worldwide standardized industrialization processes

**Durable and scalable**

- Robust chromed frame-based system
- Non-sliding motor starters and feeders
- Elite contact system for 1000+ operations
- Up to 32 drawers in a single section
- 1/4, 1/2 and full width drawers up to 315 kW
- Drawers individually connected to distribution busbar system
- Fused and breaker-based technology
- Basic arc fault protection up to 'Open door arc fault safety'



Notes



Notes



Eaton is an intelligent power management company dedicated to improving the quality of life and protecting the environment for people everywhere. We are guided by our commitment to do business right, to operate sustainably and to help our customers manage power - today and well into the future. By capitalizing on the global growth trends of electrification and digitalization, we're accelerating the planet's transition to renewable energy, helping to solve the world's most urgent power management challenges, and doing what's best for our stakeholders and all of society.

For more information, visit [Eaton.com](https://www.eaton.com).



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