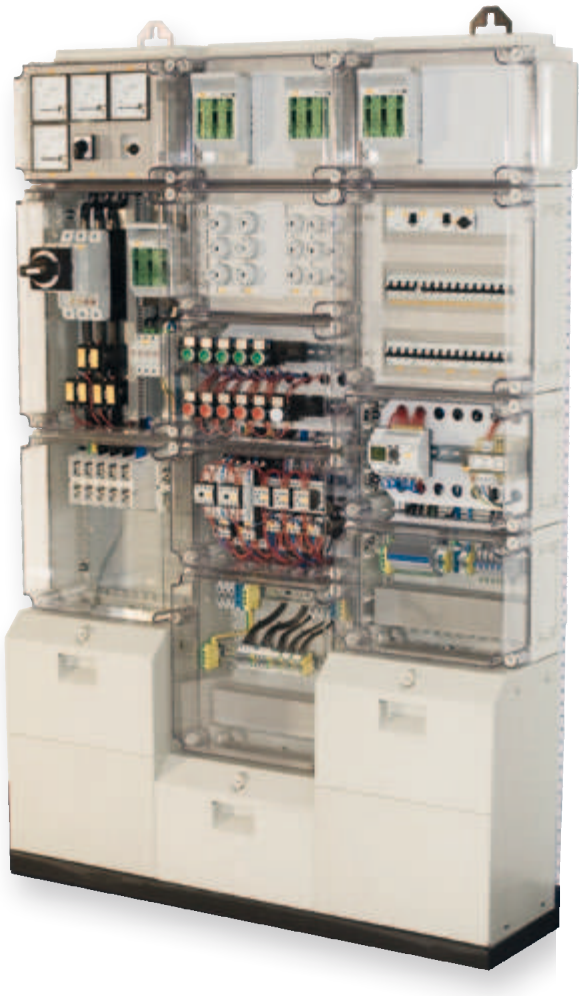






CI insulated enclosures

Exposed areas place high demands on housing systems for energy and control distribution, to guarantee operational safety.

Complete insulating encapsulation of all operating equipment up to 1600 A offers personnel and operational safety and protects against corrosion. The high protection type IP65 permits universal application. Transparent covers ease maintenance and visual checks.

totally insulated

Individual enclosures E- C/...
Integrated pressure relief when switching off short-circuits +++ Metric cable entry knockouts in all side walls +++ Faster installation of individual housing to distribution board enclosure
→ Page 20/6

IEC UL CSA

Basic enclosures for NZM... circuit-breaker/N... - CCB... switch-disconnector
Ready to accept circuit-breakers +++ Circuit-breakers switchable from outside +++ Protects against sprayed water, dust, agressive vapors → Page 20/34

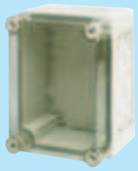
CI distribution board terminal enclosure – K.../KST...
Connection terminals pre-mounted to mounting plate +++ Housing with sectional gland plate +++ Cable installs easily from the front → Page 20/38

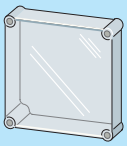
Moeller Systempartner Schaltanlagen

Cover fasteners with cylinder lock – DVZ...- C/
Spring loaded enclosure bolts +++ Fitted by user for each CI cover +++ With closed condition display → Page 20/18

Enclosure cover for socket devices – D...- STV...
Ready for Mennekes socket devices +++ for CEE and Schuko sockets up to 125 A +++ Sealable cover fasteners → Page 20/19

Prefabricated energy and control distribution
Our system partner switchgear systems operate prefabricated energy and control distributions worldwide
www.moeller-systempartner-schaltanlagen.net

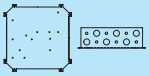


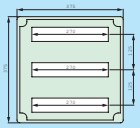














CI insulated enclosures

System overview

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System overview - CI insulated enclosures 20/4

Ordering

Basic enclosures

Individual enclosures 20/6

Individual enclosure for North America 20/9

Distribution board enclosure without gland plates fitted 20/10

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CI-K small enclosures

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Ordering

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Technical data

CI-K small enclosures 20/99

Dimensions

CI-K small enclosures 20/100

CI..., AE..., MCCB..., ZG...

Technical overview

Basic enclosures

CI... individual enclosure

Distribution board enclosure with gland plates fitted
KST...
CI: → Page 20/6
KST...: CI: → Page 20/10

Prepared enclosures

MCB enclosures

- With PE/N terminals
- For flush mounting devices with size 1 to DIN 43880 → Page 20/36

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Enclosure MCCB...

- For circuit-breaker NZM...
- Switch-disconnector N...
- 3- and 4 pole

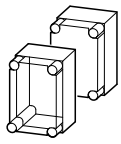
→ Page 20/34

Prepared enclosures

Meter enclosures

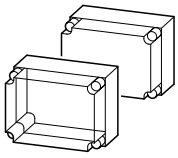
Distribution board enclosure KST with terminals K...

→ Page 20/38

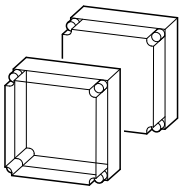


CI23.-125...
Transparent cover
Non-transparent cover
CI23.-150...
Transparent cover
Non-transparent cover

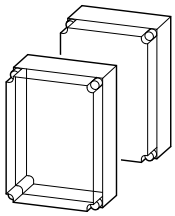
KST32-125 (-150)
Transparent cover
KST34-125 (-150, -200)
Transparent cover



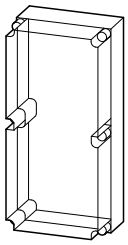
CI43.-125...
Transparent cover
Non-transparent cover
KST43-125
Transparent cover
CI43.-150...
Transparent cover
Non-transparent cover
KST43-150
Transparent cover
CI43.-200...
Transparent cover
Non-transparent cover
KST43-200
Transparent cover



CI44.-125...
Transparent cover
Non-transparent cover
KST44-125
Transparent cover
CI44.-150...
Transparent cover
Non-transparent cover
KST44-150
Transparent cover
CI44,200...
Transparent cover
Non-transparent cover
KST44-200
Transparent cover
CI44.-250
Transparent cover
KST44-250
Transparent cover



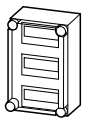
CI45.-200
Transparent cover
Non-transparent cover



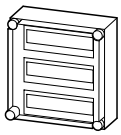
CI48-200...
Transparent cover
KST48-200
Transparent cover
CI48-250...
Transparent cover
KST48-250
Transparent cover



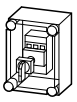
AE/IE...
AV/123-125
AV/123-150
9 x 1-pole



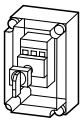
AE43E...I
AV/143-125
AV/143-200
27 x 1-pole



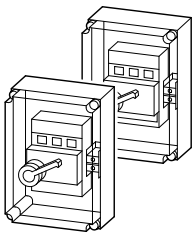
AE/I44E...
AV/144-125
AV/144-200
45 x 1-pole



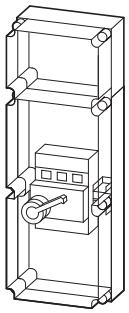
MCCB1-63/I23E-150
1 x 63 A



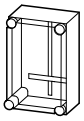
MCCB1-125/I43E-150
1 x 125 A
MCCB1-160/I43E-200
1 x 160 A
MCCB2-200/I43E-200
1 x 200 A



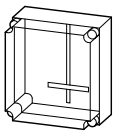
MCCB2-250/I45E-200
1 x 250 A
MCCB3-400/I45E-200
1 x 400 A



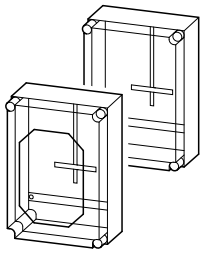
MCCB3-630/I48/I43E-200
1 x 630 A



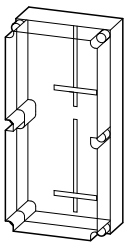
ZG/I43E-G-150
Transparent cover
ZG/I43E-G-200
Transparent cover



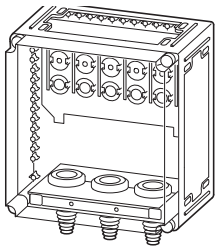
ZG/I44E-150
Transparent cover
ZG/I44E-200
Transparent cover



ZG/I45E-200-T
Transparent door
ZG/I45E-200
Transparent cover



ZG/I48-200
Transparent cover



Enclosure depth 175 mm:
K...KST32

Enclosure depth 225 mm:
K...KST34
K...KST43
K...KST44
K...KST48

SKA..., E...I(U), RSK...., RPEN..., RS..., GS...

Prepared enclosures

Busbar enclosures

-250 A, 400 A, 630 A

→ Page 20/40

Corner enclosures

- E...I, in corner: → Page 20/48
- E...U, around corner: → Page 20/48

Distribution boards back-to-back

RSK..., RPEN...: → Page 20/49

Enclosures with components fitted

Fuse enclosure

- With PE/N terminals
- DII/E27, D02/E18, DIII/E33

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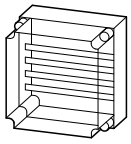
Enclosures with components fitted

Enclosures with LV h.b.c. fuse bases GS

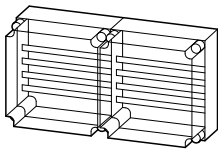
Enclosures with LV h.b.c. fuse switch-disconnectors GSTA...
- With PE/N terminals
- 5th terminal can be retrofitted

NH00, NH1, NH2

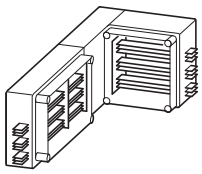
GS, GSTA: → Page 20/54



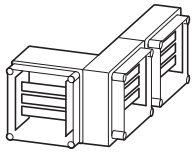
SKA254-I44
250 A, 4 pole
SKA404-I44
400 A, 4 pole
SKA634-I44
630 A, 4 pole
SKA255-I44
250 A, 5 pole
SKA405-I44
400 A, 4 pole
SKA635-I44
630 A, 5 pole



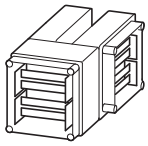
SKA254-2I44
250 A, 4 pole
SKA404-2I44
400 A, 4 pole
SKA634-2I44
630 A, 4 pole
SKA255-2I44
250 A, 5 pole
SKA405-2I44
400 A, 5 pole
SKA635-2I44
630 A, 5 pole



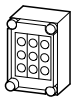
ESKI...
250-1600 A
3 main conductors
1 or 2 PE/N
EPENI...
1000-1600 A
1 or 2 PE/N



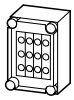
ESKU...
250-1600 A
3 main conductors
1 or 2 PE/N
EPENU...
1000-1600 A
1 or 2 PE/N



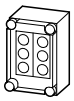
RSK...
250-1600 A
3 main conductors
1 or 2 PE/N



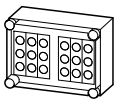
RS27/I23E
RS27/I23-125
RS27/I23-150
3 x 3 x 25 A
DII/E27



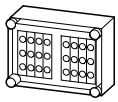
RS18/I23E
RS18/I23-125
RS18/I23-150
4 x 3 x 63 A
D02/E18



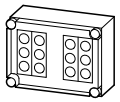
RS33/I23E
RS33/I23-125
RS33/I23-150
2 x 3 x 63 A
DIII/E33



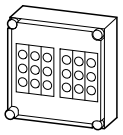
RS27/I43E
RS27/I43-125
RS27/I43-200
6 x 3 x 25 A
DII/E27



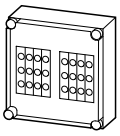
RS18/I43E
RS18/I43-125
RS18/I43-200
8 x 3 x 63 A
D02/E18



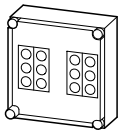
RS33/I43E
RS33/I43-125
RS33/I43-200
4 x 3 x 63 A
DIII/E33



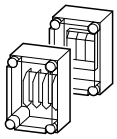
RS27/I44E
6 x 3 x 25 A
DII/E27



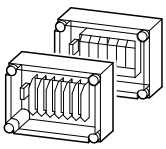
RS18/I44E
8 x 3 x 63 A
D02/E18



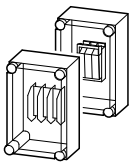
RS33/I44E
4 x 3 x 63 A
DIII/E33



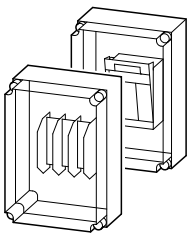
GS00/I23E
1 x 100 A, 1 X NH00
GSTA00/I23E
1 x 100 A, 1 X NH00



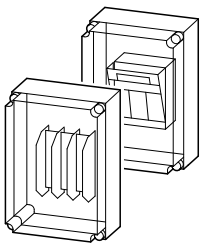
2GS00/I43E
2 x 100 A, 2 X NH00
2GSTA00/I43E
2 x 100 A, 2 X NH00



GS00-160/I43E-G
1 x 160 A, 1 X NH00
GSTA00-160/I43E-G
1 x 160 A, 1 X NH00



GS1/I45E
1 x 250 A, 1 X NH1
GSTA1/I45E
1 x 250 A, 1 X NH1

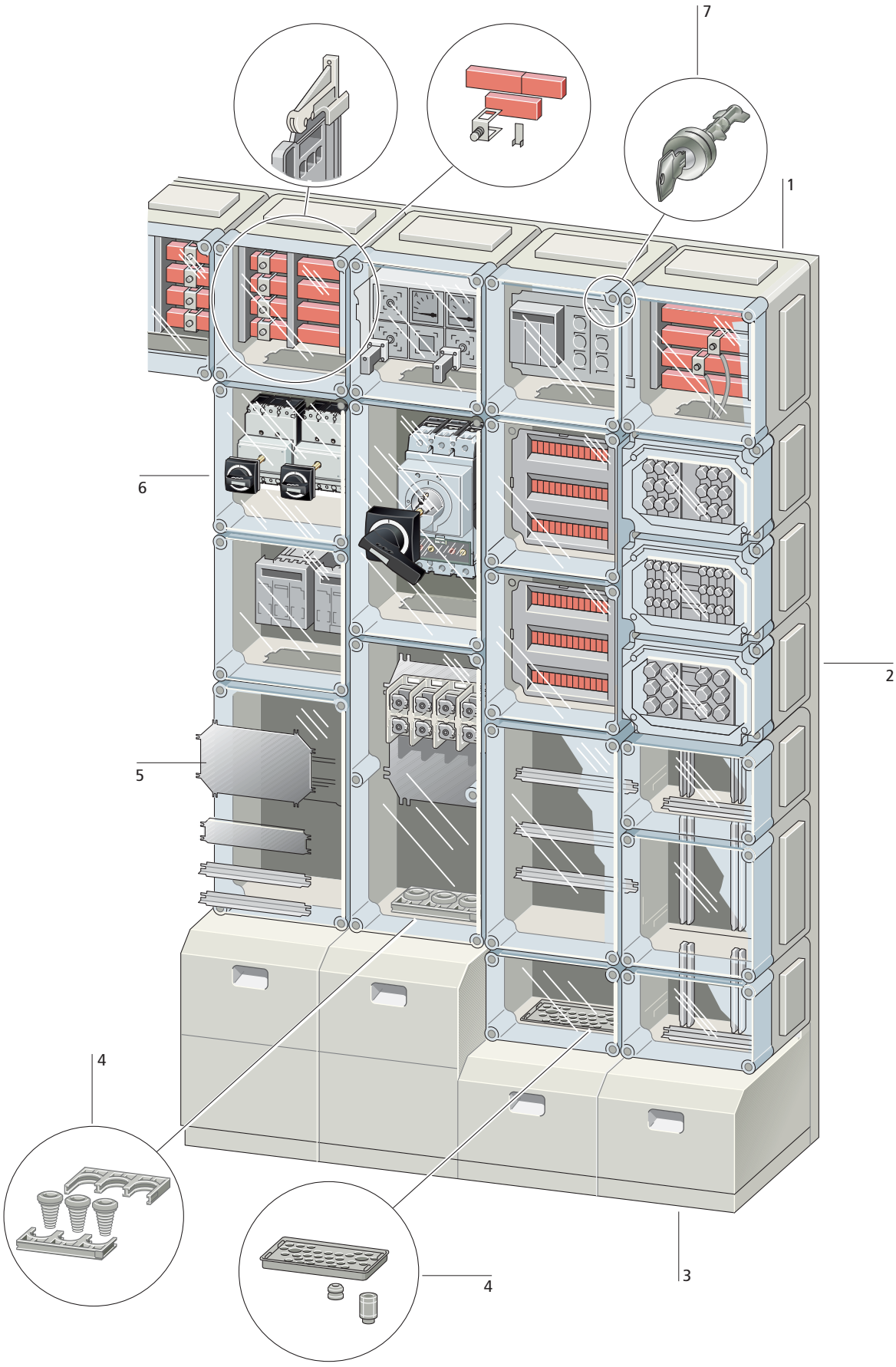


GS2/I45E
1 x 400 A, 1 X NH2
GSTA2/I45E
1 x 400 A, 1 X NH2

CI insulated enclosures totally insulated

System overview

CI...



Basic enclosures

Five sizes can be combined
Width ≧ 187.5 ≦ 375 mm
Height ≧ 250 ≦ 750 mm
Depth ≧ 150 ≦ 275 mm

Metric cable entry knockouts in the sides

Cover fasteners with I/0 status indication, sealable, pressure relief through built-in spring

Cover
transparent, with/without door
Non-transparent, RAL 7032

→ Page 20/17

Product features

- Totally insulated
- Protection type IP65
- Safety class 2
- Distribution board system with 25 mm grid
- Modular system
- Captive, sponge-rubber gaskets
- Insulating wedge-lock fastener for connecting the enclosures with each other
- Enclosure of self-extinguishing, -halogen free polycarbonate

Standards

- IEC/EN 60439-1
- VDE 0660 Part 500
- BS 5486 Part 1
- NF EN 60439-1
- SN EN 60439-1

Busbar systems 1

5-conductor systems

Rated operational current up to 630 A

Tinned copper busbars up to 630 A

Busbar terminals

→ Page 20/40

Fixing 2

Support frames for wall-mounted and floor-standing distribution boards

Wall fixing bracket

Fixing straps

→ Page 20/64

Cable compartment 3

Plinths

Cable compartment cladding

→ Page 20/68 → Page 20/70

Cable entries 4

Gland plates for large cross-sections

Flanges

Metric cable glands/cable grommets

→ Page 20/23 → Page 20/29

Terminals, copper band

→ Chapter 16, Accessories for control panel building

Mounting systems for basic enclosures 5

Sheet steel mounting plates and insulating material

Pre-drilled mounting plate for surface mounting standard devices

→ Online catalogue

Mounting rails and module mounting rails to IEC/EN 60715

Mounting depths 125 to 250 mm

Meter equipment

→ Page 20/26

Enclosures with components fitted/ service distribution boards (TTA) 6

MCB enclosures

Fuse enclosures

→ Page 20/52

Enclosures with LV h.b.c. fuse bases

→ Page 20/57

Enclosures with LV h.b.c. fuse switch-disconnectors
→ Page 20/62

CI enclosures for NZM1, 2, 3 circuit-breakers and N1, 2, 3, PN1, 2, 3 switch-disconnectors

→ Page 20/34

Meter enclosures

→ Page 20/37

Cover fasteners 7

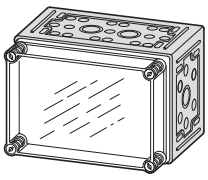
Fixable or with cylinder lock

→ Page 20/22

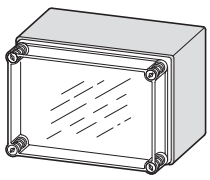
Enclosure styles

The enclosure cover is identical for all three construction types.

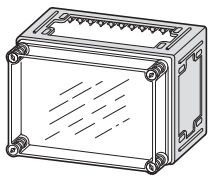
CI...E-... individual enclosure
- Metric cable entry knockouts in all sides
- All enclosure sides can also be knocked out
- Also for use in CI distribution board systems



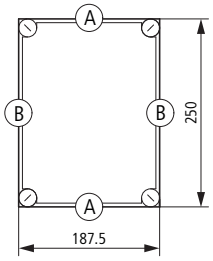
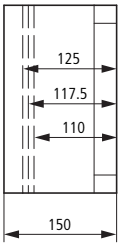
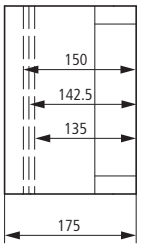
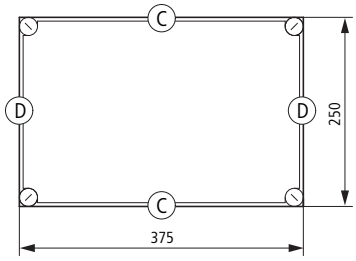
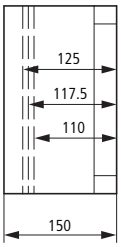
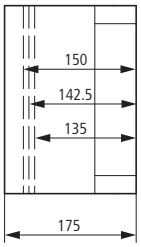
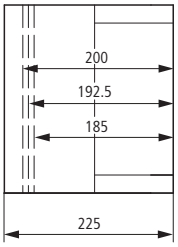
CI...X-... individual enclosure
- All four enclosure side plates walls smooth without knockouts

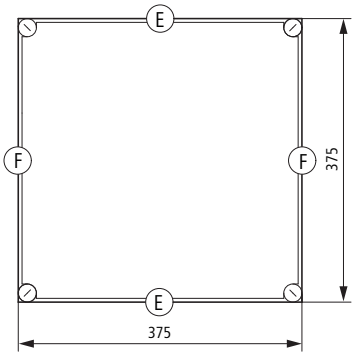
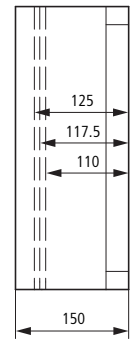
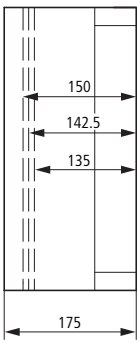
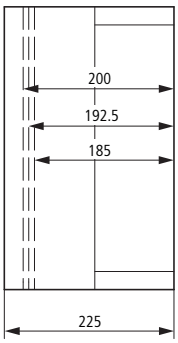


CI...-... panel enclosure
- Horizontal enclosure sides open
- Vertical enclosure sides with large knockouts
- Suitable for surface mounting CI distribution board systems



Ordering

Dimensions mm	Enclosure depth: Dimensions from top: 1. Mounting depth for mounting plate 2. Mounting depth for mounting rail 7.5 mm height 3. Enclosure depth for mounting rail 15 mm height 4. Enclosure depth mm	Type cover / Type Enclosure base	**Part no.** Article no.	**Price** See price list	Std. pack
Individual enclosures E and X • Protection type IP65 • Cover transparent or non-transparent (RAL 7032, pebble grey) • Fixing straps for wall fixing • Sealable cover fasteners E individual enclosures • With metric knockouts in all enclosure side plates; see illustrations A to F • Full-area knockouts in the sides • Can be converted to distribution board enclosure X individual enclosures • Smooth side plates, without knockouts					
		Transparent /knockout	**CI23E-125** 019570		1 off
		Non-transparent /knockout	**CI23E-125-RAL7032** 090152		
		Transparent /plain	**CI23X-125** 010408		
		Transparent /knockout	**CI23E-150** 021943		
		Non-transparent /knockout	**CI23E-150-RAL7032** 090153		
		Transparent /plain	**CI23X-150** 015154		
		Transparent /knockout	**CI43E-125** 093133		1off
		Non-transparent /knockout	**CI43E-125-RAL7032** 090154		
		Transparent /plain	**CI43X-125** 019900		
		Transparent /knockout	**CI43E-150** 095506		
		Non-transparent /knockout	**CI43E-150-RAL7032** 090155		
		Transparent /plain	**CI43X-150** 024646		
		Transparent /knockout	**CI43E-200** 097879		
		Non-transparent /knockout	**CI43E-200-RAL7032** 090156		
		Transparent /plain	**CI43X-200** 029392		

Dimensions mm	Enclosure depth: Dimensions from top: 1. Mounting depth for mounting plate 2. Mounting depth for mounting rail 7.5 mm height 3. Enclosure depth for mounting rail 15 mm height 4. Enclosure depth mm	Type cover / Type Enclosure base	**Part no.** Article no.	**Price** See price list	Std. pack
		Transparent /knockout	**CI44E-125** 031436		1off
		Non-transparent /knockout	**CI44E-125-RAL7032** 090157		
		Transparent /plain	**CI44X-125** 031765		
		Transparent /knockout	**CI44E-150** 033809		
		Non-transparent /knockout	**CI44E-150-RAL7032** 090158		
		Transparent /plain	**CI44X-150** 034138		
		Transparent /knockout	**CI44E-200** 036182		
		transparent with transparent door /knockout	**CI44E-200-T** 090147		
		Non-transparent /knockout	**CI44E-200-RAL7032** 090159		
		Transparent /plain	**CI44X-200** 036511		

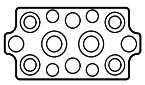
Notes

A



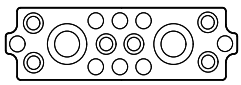
1 x M32/20
6 x M20
2 x M16

B



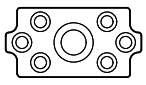
2 x M32/20
4 x M25/16
4 x M20
4 x M16

C



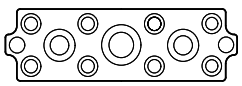
2 x M50/20
6 x M25/16
8 x M20

D



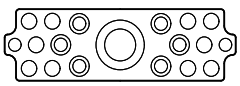
1 x M50/32
6 x M25/16

E



1 x M50/32
2 x M40/25
8 x M25/16
2 x M20

F



1 x M63/40
6 x M25/16
10 x M20
2 x M16

Dimensions	Enclosure depth: Dimensions from top: 1. Mounting depth for mounting plate 2. Mounting depth for mounting rail 7.5 mm height 3. Enclosure depth for mounting rail 15 mm height 4. Enclosure depth	Type cover / Type Enclosure base	**Part no.** Article no.	**Price** See price list	Std. pack
mm	mm				

Individual enclosures E and X

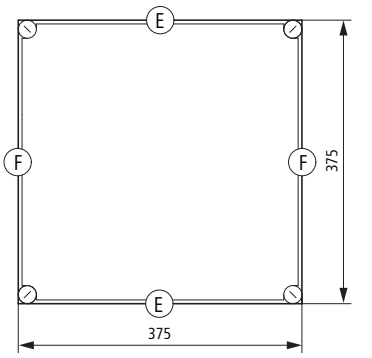
- Protection type IP65
- Cover transparent or non-transparent (RAL 7032, pebble grey)
- Fixing straps for wall fixing
- Sealable cover fasteners

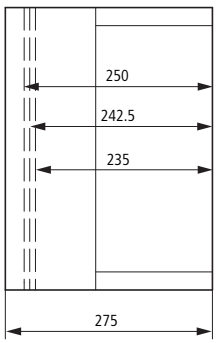
E individual enclosures

- With metric knockouts in all enclosure side plates; see illustrations A to F
- Full-area knockouts in the sides
- Can be converted to distribution board enclosure

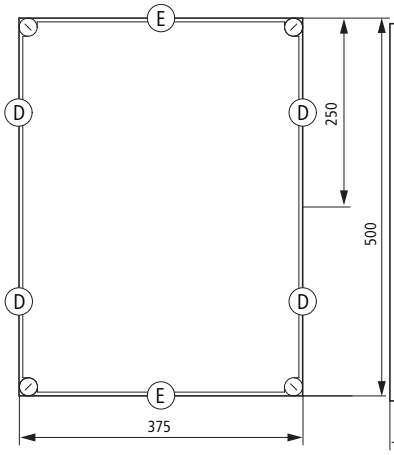
X individual enclosures

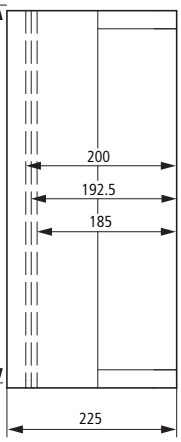
- Smooth side plates, without knockouts





Transparent /knockout	**CI44E-250** 038555			1 off
Transparent /plain	**CI44X-250** 038884			





Transparent /knockout	**CI45E-200** 001891			
Non-transparent /knockout	**CI45E-200-RAL7032** 090160			
Transparent /plain	**CI45X-200** 098469			

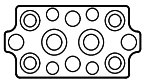
Notes

A



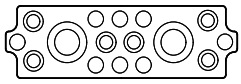
1 x M32/20
6 x M20
2 x M16

B



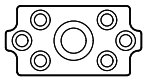
2 x M32/20
4 x M25/16
4 x M20
4 x M16

C



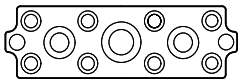
2 x M50/20
6 x M25/16
8 x M20

D



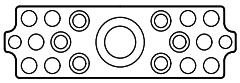
1 x M50/32
6 x M25/16

E



1 x M50/32
2 x M40/25
8 x M25/16
2 x M20

F



1 x M63/40
6 x M25/16
10 x M20
2 x M16

Dimensions Width mm	Height mm	Depth mm	Mounting depth mm	**Part no.** Article no.	**Price** See price list	Std. pack
Individual enclosures						
• Protection type IP65 • Enclosure base RAL 7032 with smooth sides • Fixing straps for wall fixing						
Individual enclosures without/with door in cover						
• Transparent cover, cover locks can be sealed						
187.5	250	150	125	**CI23X-125-NA** 002209		1 off
		175	150	**CI23X-150-NA** 002212		
375	250	150	125	**CI43X-125-NA** 002213		
		175	150	**CI43X-150-NA** 002232		
		225	200	**CI43X-200-NA** 002217		
	375	150	125	**CI44X-125-NA** 002218		
		175	150	**CI44X-150-NA** 002219		
		225	200	**CI44X-200-NA** 002220		
		275	250	**CI44X-250-NA** 002224		
	500	225	200	**CI45X-200-NA** 264023		
Individual enclosures with cover and doors						
• Transparent cover with door, cover fasteners can be sealed • Transparent door, with handle latches and 180° door opening angle • Door hinges can be subsequently changed to left, right, top or bottom.						
187.5	250	166	125	**CI23X-125/T-NA** 002210		1 off
		191	150	**CI23X-150/T-NA** 002211		
375	250	166	125	**CI43X-125/T-NA** 002214		
		191	150	**CI43X-150/T-NA** 002215		
		241	200	**CI43X-200/T-NA** 002216		
	375	241	200	**CI44X-200/T-NA** 002221		
		191	150	**CI44X-150/T-NA** 002222		
		291	200	**CI44X-250/T-NA** 002223		
		166	125	**CI44X-125/T-NA** 002233		

Notes

Information relevant for export to North America

Product Standards	UL 508A; CSA-C22.2 No.94; IEC/EN 60529; CE marking
UL File No.	E54120, E337418
UL CCN	NITW
CSA File No.	27130
CSA Class No.	3211-07
NA Certification	UL Listed, CSA certified
Specially designed for NA	Yes
Suitable for	Industrial Control Panels
Degree of Protection	IEC: IP65; UL/CSA Types 1, 12, 13, 4X, indoor only

Dimensions	Enclosure depth: Dimensions from top: 1. Mounting depth for mounting plate 2. Mounting depth for mounting rail 7.5 mm height 3. Enclosure depth for mounting rail 15 mm height 4. Enclosure depth	Cable entry outer diameter	**Part no.** Article no.	**Price** See price list	Std. pack
mm	mm	mm			

Distribution board with/without gland plates fitted

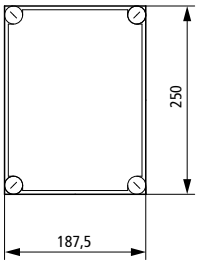
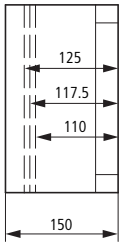
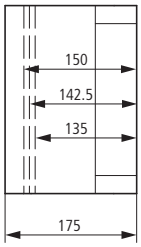
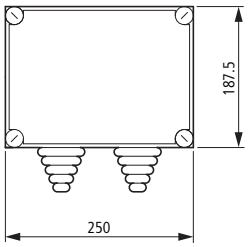
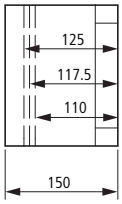
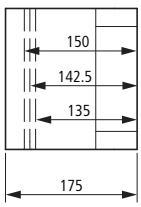
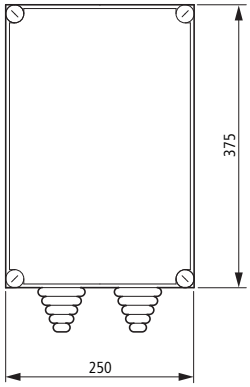
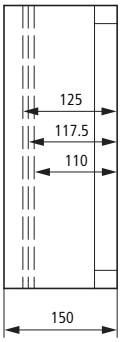
- Transparent cover, cover fasteners can be sealed.

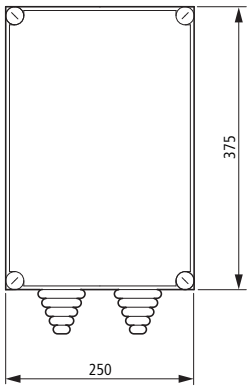
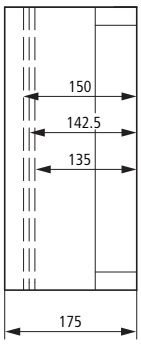
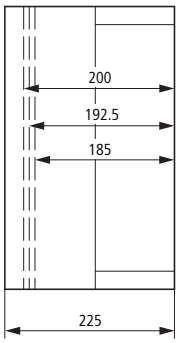
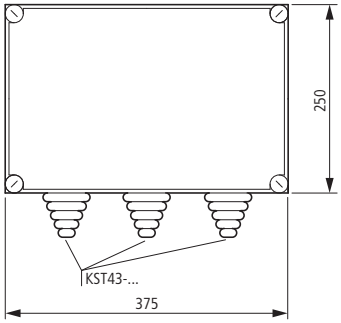
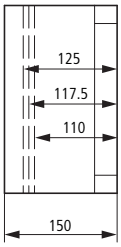
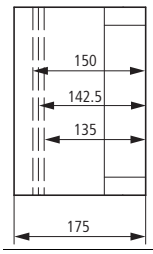
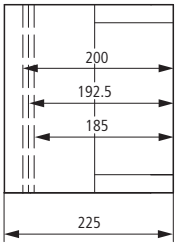
CI distribution board enclosure without cable gland plates

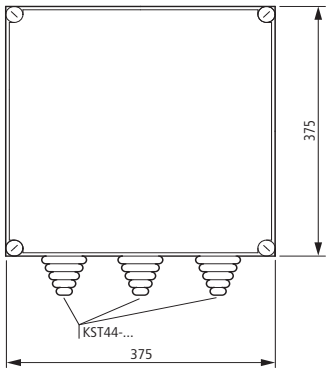
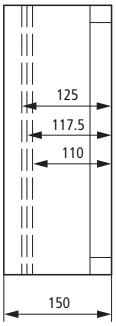
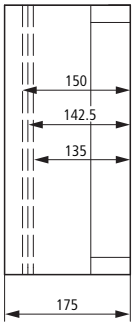
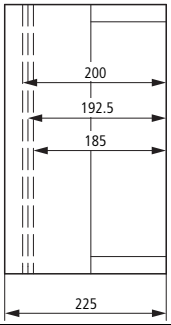
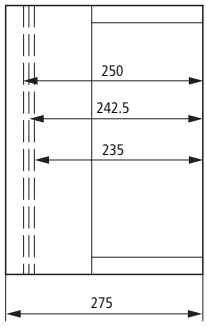
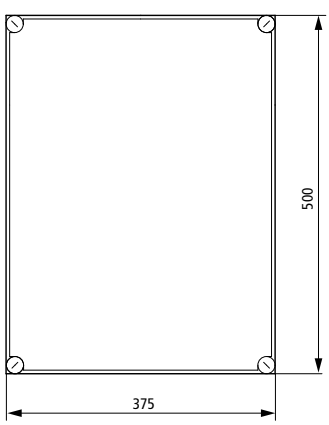
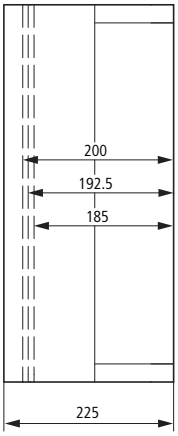
- Protection type IP65
- Sides closed, but with full area knockout, open top and bottom

KST distribution board enclosure with cable gland plates fitted

- Protection type IP65 (from bottom)
- Sides closed, but with full area knockout, open at top
- Mounting of cable supports in the distribution board with wedge-lock fastener
- Gland plate can be split, cables can be inserted from the front

Dimensions	Enclosure depth	Cable entry outer diameter	**Part no.** Article no.	**Price** See price list	Std. pack
		–	**CI23-125** 098208		1 off
		–	**CI23-150** 012781		
		2 x 14 - 54	**KST32-125** 069774		
		2 x 14 - 54	**KST32-150** 072147		
		2 x 14 - 54	**KST34-125** 076893		

Dimensions	Enclosure depth: Dimensions from top: 1. Mounting depth for mounting plate 2. Mounting depth for mounting rail 7.5 mm height 3. Enclosure depth for mounting rail 15 mm height 4. Enclosure depth	Cable entry outer diameter	**Part no.** Article no.	**Price** See price list	Std. pack
mm	mm	mm			
		2 x 14 - 54	**KST34-150** 074520		1 off
		2 x 14 - 54	**KST34-200** 079266		
		– 3 x 14 - 68	**CI43-125** 017527 **KST43-125** 081639		
		– 3 x 14 - 68	**CI43-150** 022273 **KST43-150** 084012		
		– 3 x 14 - 68	**CI43-200** 027019 **KST43-200** 086385		

Dimensions	Enclosure depth: Dimensions from top: 1. Mounting depth for mounting plate 2. Mounting depth for mounting rail 7.5 mm height 3. Enclosure depth for mounting rail 15 mm height 4. Enclosure depth	Cable entry outer diameter	**Part no.** Article no.	**Price** See price list	Std. pack
mm	mm	mm			
		–	**CI44-125** 012452		1 off
		3 x 14 - 68	**KST44-125** 088758		
		–	**CI44-150** 017198		
		3 x 14 - 68	**KST44-150** 091131		
		–	**CI44-200** 021944		
		3 x 14 - 68	**KST44-200** 093504		
		–	**CI44-250** 026690		
		3 x 14 - 68	**KST44-250** 095877		
		–	**CI45-200** 001896		

Dimensions	Enclosure depth: Dimensions from top: 1. Mounting depth for mounting plate 2. Mounting depth for mounting rail 7.5 mm height 3. Enclosure depth for mounting rail 15 mm height 4. Enclosure depth	Cable entry outer diameter	**Part no.** Article no.	**Price** See price list	Std. pack
mm	mm	mm			

Distribution board with/without gland plates fitted

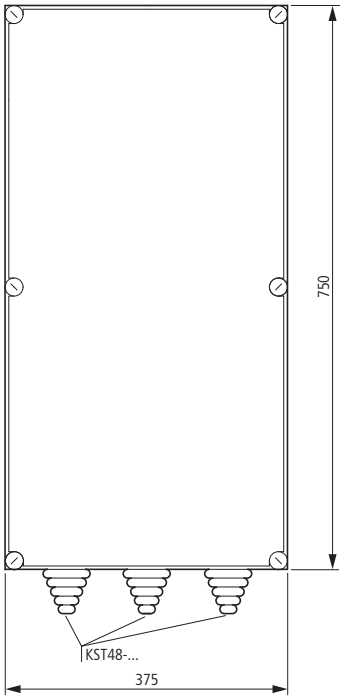
- Transparent cover, cover fasteners can be sealed.

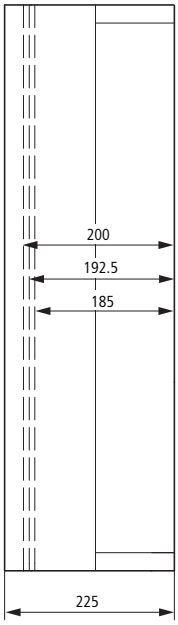
CI distribution board enclosure without cable gland plates

- Protection type IP65
- Sides closed, but with full area knockout, open top and bottom

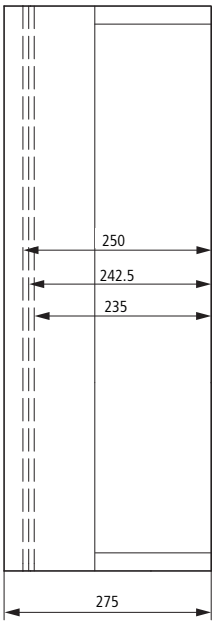
KST distribution board enclosure with cable gland plates fitted

- Protection type IP65 (from bottom)
- Sides closed, but with full area knockout, open at top
- Mounting of cable supports in the distribution board with wedge-lock fastener
- Gland plate can be split, cables can be inserted from the front





–	**CI48-200** 078896		1 off
3 x 14 - 68	**KST48-200** 098250		



–	**CI48-250** 083642		
3 x 14 - 68	**KST48-250** 010450		

Dimensions Width mm	Height mm	Depth mm	Mounting depth mm	**Part no.** Article no.	**Price** See price list	Std. pack
• Protection type IP65 • Base color RAL7032, fitted with removable smooth flanges on all four sides • Fixing straps for wall fixing						
Panel enclosures with cover and flanges						
• Transparent cover, cover fasteners can be sealed.						
234	296	150	125	**CI23-125-NA** 002234		1 off
234	296	175	150	**CI23-150-NA** 002237		
421	296	150	125	**CI43-125-NA** 002238		
421	296	175	150	**CI43-150-NA** 002241		
421	296	225	200	**CI43-200-NA** 002242		
421	421	150	125	**CI44-125-NA** 002245		
421	421	175	150	**CI44-150-NA** 002246		
421	421	225	200	**CI44-200-NA** 002249		
421	421	275	225	**CI44-250-NA** 002250		
421	546	225	200	**CI45-200-NA** 264024		
421	796	225	200	**CI48-200-NA**[1] 002253		
421	796	275	250	**CI48-250-NA**[1] 002254		
Panel enclosures with door and flanges[1]						
• Transparent cover with door, cover fasteners can be sealed • Transparent door with quick-release fasteners and 180° door opening angle • Door hinges can be subsequently changed to left, right, top or bottom.						
234	296	166	125	**CI23-125/T-NA** 002235		1 off
234	296	191	150	**CI23-150/T-NA** 002236		
421	296	166	125	**CI43-125/T-NA** 002239		
421	296	191	150	**CI43-150/T-NA** 002240		
421	296	241	200	**CI43-200/T-NA** 002243		
421	421	166	125	**CI44-125/T-NA** 002244		
421	421	191	150	**CI44-150/T-NA** 002247		
421	421	241	200	**CI44-200/T-NA** 002248		
421	421	291	250	**CI44-250/T-NA** 002251		
421	796	241	200	**CI48-200/T-NA** 002252		
421	796	291	250	**CI48-250/T-NA** 002255		
421	796	241	200	**CI48-200/2T-NA** 002256		
421	796	291	250	**CI48-250/2T-NA** 002257		

Notes

Information relevant for export to North America

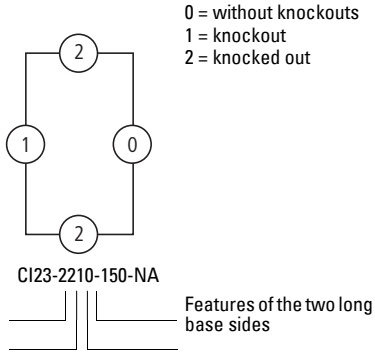
Product Standards	UL 508A; CSA-C22.2 No.94; IEC/EN 60529; CE marking
UL File No.	E54120, E337418
UL CCN	NITW
CSA File No.	27130
CSA Class No.	3211-07
NA Certification	UL Listed, CSA certified
Specially designed for NA	Yes
Suitable for	Industrial Control Panels
Degree of Protection	IEC: IP65; UL/CSA Types 1, 12, 13, 4X, indoor only

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

Dimensions Width mm	Height mm	Depth mm	Mounting depth mm	Base design	**Part no.** Article no.	**Price** See price list	Std. pack
Distribution board enclosures with cover and preassembled side walls							
• Protection type IP65 • Base RAL 7032, with different side plates on all four sides • Transparent cover, cover fasteners can be sealed.							
234	296	175	150	1 × without knockouts 1 x side plates knockout 2 × side plates with knockout	**CI23-2210-150-NA** 234059		1 off
421	296	175	150	2 × without knockouts 2 × side plates with knockout	**CI43-2200-150-NA** 234060		
421	296	175	150	3 × without knockouts 1 × side plates with knockout	**CI43-2000-150-NA** 234061		
421	296	175	150	1 × without knockouts 3 × side plates with knockout	**CI43-2022-150-NA** 234062		
421	296	225	200	2 × without knockouts 2 × side plates with knockout	**CI43-2200-200-NA** 234063		
421	421	175	150	2 × without knockouts 2 × side plates with knockout	**CI44-2200-150-NA** 234064		
421	421	175	150	1 × without knockouts 3 × side plates with knockout	**CI44-2220-150-NA** 234065		
421	421	225	200	2 × without knockouts 2 × side plates with knockout	**CI44-2200-200-NA** 234066		
421	421	275	225	2 × without knockouts 2 × side plates with knockout	**CI44-2200-250-NA** 234067		

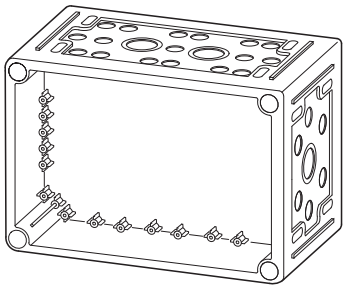
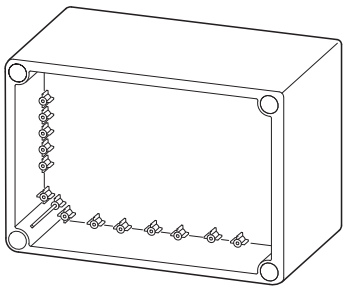
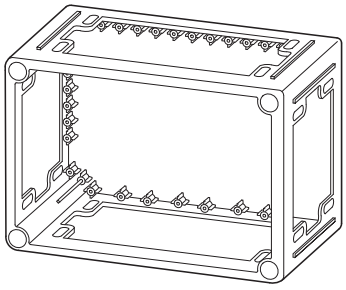
Notes

Ordering example:

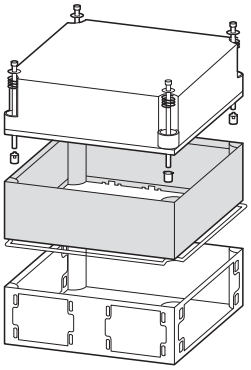


Information relevant for export to North America

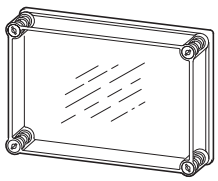
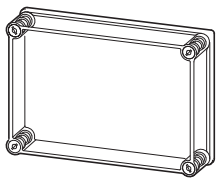
Product Standards	UL 508A; CSA-C22.2 No.94; IEC/EN 60529; CE marking
UL File No.	E54120, E337418
UL CCN	NITW
CSA File No.	27130
CSA Class No.	3211-07
NA Certification	UL Listed, CSA certified
Specially designed for NA	Yes
Suitable for	Industrial Control Panels
Degree of Protection	IEC: IP65; UL/CSA Types 1, 12, 13, 4X, indoor only

	Dimensions Width mm	Height mm	Cable entry Top and bottom	Sideways	**Part no.** Article no.	**Price** See price list	Std. pack
Bases for E-type individual enclosures							
• Metric cable entry knockouts in all sides • Full-area knockouts in the sides							
	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 off
	375	250	2 x M50/32 6 x M25/16 8 x M20	1 x M50/32 6 x M25/16	**U-CI43E** 064896		
		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		
		500	1 x M50/32 2 x M40/25 8 x M25/16 2 x M20	On each 2: 1 x M50/32 6 x M25/16	**U-CI45E** 001893		
Bases for X type individual enclosures							
• Smooth side plates, without knockouts							
	187.5	250	Drill as required	Drill as required	**U-CI23X** 057909		1 off
	375	250			**U-CI43X** 062655		
		375			**U-CI44X** 067401		
		500			**U-CI45X** 098470		
Bases for panel enclosures							
• Sides closed, but with full area knockout • Open tip and bottom							
	187.5	250	Via FL2... flange	Via FL3... flange	**U-CI23** 060282		1 off
	375	250	Via FL4... flange	Via FL3... flange	**U-CI43** 065028		
		375	Via FL4... flange	Via FL4... flange	**U-CI44** 067269		
		500	Via FL4... flange	Via FL3... flange	**U-CI45** 001894		
		750	Via FL4... flange	Via FL4... flange	**U-CI48** 083880		

Notes Flange → Page 20/23

Enclosure intermediate frame	Dimensions Width mm	Height mm	Mounting depth[1] mm	For use with	**Part no.** Article no.	**Price** See price list	Std. pack
• For increased mounting depth • Smooth side plates, without knockouts • Color RAL 7032, pebble grey • Screw-fitting cover fastener • Equipment supplied: gasket, mounting accessories							
	375	500	275	U-CI45... D200-CI45 CI45...	**U-CI45-DR** 110103		1 off

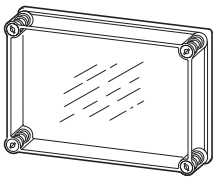
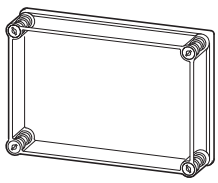
Notes [1] with cover D200-CI45

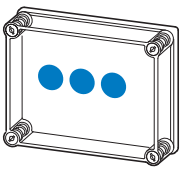
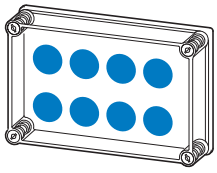
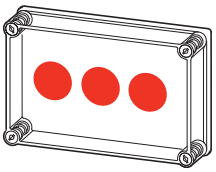
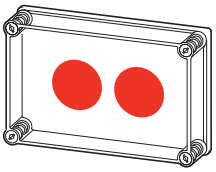
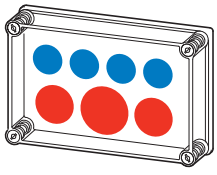
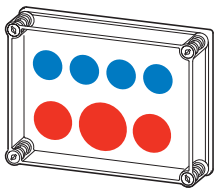
	Dimensions Width mm	Height mm	Mounting depth mm	For use with	**Part no.** Article no.	**Price** See price list	Std. pack
Enclosure covers without openings							
• Sealable cover fasteners • Sealing							
Cover, transparent							
	187.5	250	125	U-CI23…	**D125-CI23** 014830		10 off
			150	U-CI23…	**D150-CI23** 024322		4 off
	375	250	125	U-CI43…	**D125-CI43** 017203		5 off
			150		**D150-CI43** 038560		2 off
			200		**D200-CI43** 074155		2 off
		375	125	U-CI44…	**D125-CI44** 019576		5 off
			150		**D150-CI44** 040933		2 off
			200		**D200-CI44** 076528		2 off
			250		**D250-CI44** 081274		1 off
		500	200	U-CI45…	**D200-CI45** 001895		2 off
		750	200	U-CI48…	**D200-CI48** 078901		2 off
			250	U-CI48…	**D250-CI48** 083647		1 off
Enclosure covers without openings							
Cover, non-transparent ; color RAL 7032, pebble grey							
	187.5	250	125	U-CI23…	**D125-CI23-RAL7032** 098471		10 off
			150	U-CI23…	**D150-CI23-RAL7032** 098472		4 off
	375	250	125	U-CI43…	**D125-CI43-RAL7032** 002843		5 off
			200		**D200-CI43-RAL7032** 005216		2 off
			150		**D150-CI43-RAL7032** 098473		2 off
		375	125	U-CI44…	**D125-CI44-RAL7032** 007589		5 off
			200		**D200-CI44-RAL7032** 009962		2 off
			150		**D150-CI44-RAL7032** 098474		2 off
			250		**D250-CI44-RAL7032** 098475		1 off
		500	200	U-CI45…	**D200-CI45-RAL7032** 098476		2 off
		750	200	U-CI48…	**D200-CI48-RAL7032** 098477		2 off
		750	250	U-CI48…	**D250-CI48-RAL7032** 098478		1 off

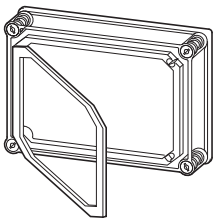
Enclosure cover

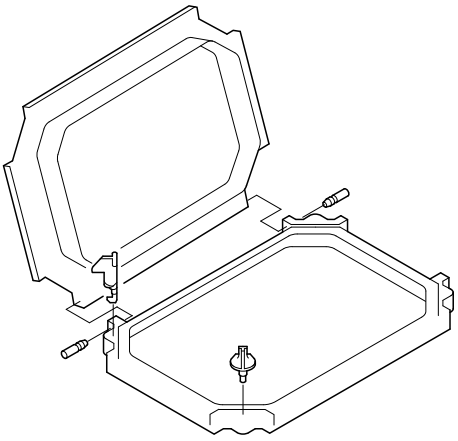
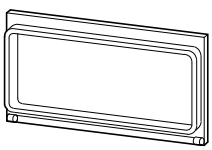
D...-CI...-DVZ

HPL20018EN

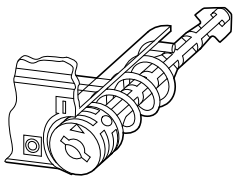
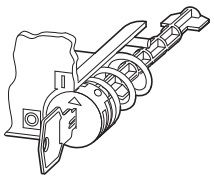
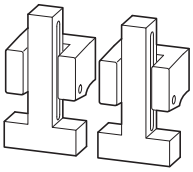
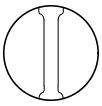
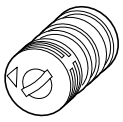
Dimensions Width mm	Height mm	Mounting depth mm	For use with	Number Cylindrical locks	**Part no.** Article no.	**Price** See price list	Std. pack
Lockable enclosure covers without openings							
• Two or four lockable cover fasteners, diagonal with cylinder lock • Cylindrical locks, uniformly locking • Two diagonal lead-sealable cover locks. When also replacing all DV...-CI with DVZ...-CI, the sealing function is not available. • Equipment supplied: gasket, key							
Transparent cover							
							
187.5	250	125	U-CI23...	2	**D125-CI23-DVZ** 138354		4 off
187.5	250	150	U-CI23...	2	**D150-CI23-DVZ** 138355		4 off
375	250	125	U-CI43...	2	**D125-CI43-DVZ** 138356		2 off
		150	U-CI43...	2	**D150-CI43-DVZ** 138357		
		200	U-CI43...	2	**D200-CI43-DVZ** 138358		
	375	125	U-CI44...	2	**D125-CI44-DVZ** 138359		
		150	U-CI44...	2	**D150-CI44-DVZ** 138520		
		200	U-CI44...	2	**D200-CI44-DVZ** 138521		
		250	U-CI44...	2	**D250-CI44-DVZ** 138522		
	500	200	U-CI45...	2	**D200-CI45-DVZ** 138523		
	750	200	U-CI48...	4	**D200-CI48-DVZ** 138524		
	750	250	U-CI48...	4	**D250-CI48-DVZ** 138525		
Non-transparent cover RAL7032							
							
187.5	250	125	U-CI23...	2	**D125-CI23-RAL7032-DVZ** 138526		4 off
187.5	250	150	U-CI23...	2	**D150-CI23-RAL7032-DVZ** 138527		4 off
375	250	125	U-CI43...	2	**D125-CI43-RAL7032-DVZ** 138528		2 off
		150	U-CI43...	2	**D150-CI43-RAL7032-DVZ** 138529		
		200	U-CI43...	2	**D200-CI43-RAL7032-DVZ** 138530		
	375	125	U-CI44...	2	**D125-CI44-RAL7032-DVZ** 138531		
		150	U-CI44...	2	**D150-CI44-RAL7032-DVZ** 138532		
		200	U-CI44...	2	**D200-CI44-RAL7032-DVZ** 138533		
		250	U-CI44...	2	**D250-CI44-RAL7032-DVZ** 138534		
	500	200	U-CI45...	2	**D200-CI45-RAL7032-DVZ** 138535		
	750	200	U-CI48...	4	**D200-CI48-RAL7032-DVZ** 138536		
	750	250	U-CI48...	4	**D250-CI48-RAL7032-DVZ** 138537		

	For use with	Dimensions Width mm	Height mm	Mounting depth mm	Plug-in units Number of openings	For use with	**Part no.** Article no.	**Price** See price list	Std. pack
Enclosure cover prepared for 16 to 125 A plug-in units									
• For individual enclosures or in distribution boards • For distribution board applications observe the characteristic data of the other apparatus. • Cover with knockouts for standardized 5-pole plug-in units • Plug-in units not included as standard • Order plug-in units separately, e.g. from Mennekes • Sealable cover fasteners • For retrofitting for various lockable covers, order also DVZ...-CI • Protection type IP44, gasket									
	Schuko socket 16 A	187.5	250	125	3	U-CI23...	**D125-CI23-RAL7032-STV3/16A** 138545		4 off
	Schuko socket 16 A	187.5	250	150	3	U-CI23...	**D150-CI23-RAL7032-STV3/16A** 138546		4 off
	Schuko socket 16 A	375	250	125	8	U-CI43...	**D125-CI43-RAL7032-STV8/16A** 138547		2 off
				150		U-CI43...	**D150-CI43-RAL7032-STV8/16A** 138548		2 off
				200		U-CI43...	**D200-CI43-RAL7032-STV8/16A** 138549		2 off
	CEE 16 A	375	250	125	3	U-CI43...	**D125-CI43-RAL7032-STV3/16A** 138550		2 off
				150		U-CI43...	**D150-CI43-RAL7032-STV3/16A** 138551		2 off
				200		U-CI43...	**D200-CI43-RAL7032-STV3/16A** 138552		2 off
	CEE 32 A			125		U-CI43...	**D125-CI43-RAL7032-STV3/32A** 138553		2 off
				150		U-CI43...	**D150-CI43-RAL7032-STV3/32A** 138554		2 off
				200		U-CI43...	**D200-CI43-RAL7032-STV3/32A** 138555		2 off
	CEE 63 A			125		U-CI43...	**D125-CI43-RAL7032-STV3/63A** 138556		2 off
				150		U-CI43...	**D150-CI43-RAL7032-STV3/63A** 138557		2 off
				200		U-CI43...	**D200-CI43-RAL7032-STV3/63A** 138558		2 off
	CEE 125 A	375	250	125	2	U-CI43...	**D125-CI43-RAL7032-STV2/125A** 138559		2 off
				150		U-CI43...	**D150-CI43-RAL7032-STV2/125A** 138560		2 off
				200		U-CI43...	**D200-CI43-RAL7032-STV2/125A** 138561		2 off
	4 x Schuko sockets 16 A 2 x CEE 16 A 1 CEE 32 A	375	250	125	7	U-CI43...	**D125-CI43-RAL7032-STV7/16-32A**		2 off
				150		U-CI43...	**D150-CI43-RAL7032-STV7/16-32A**		2 off
				200		U-CI43...	**D200-CI43-RAL7032-STV7/16-32A** 138564		2 off
	4 x Schuko sockets 16 A 2 x CEE 16 A 1 CEE 32 A	375	375	125	7	U-CI44...	**D125-CI44-RAL7032-STV7/16-32A**		2 off
				150		U-CI44...	**D150-CI44-RAL7032-STV7/16-32A**		2 off
				200		U-CI44...	**D200-CI44-RAL7032-STV7/16-32A**		2 off
				250		U-CI44...	**D250-CI44-RAL7032-STV7/16-32A**		2 off

	Mounting depth mm	For use with	**Part no.** Article no.	**Price** See price list	Std. pack
Enclosure covers with door					
• Protection type IP65 • Transparent door, with quick-release fasteners and 180° door opening angle • Door hinges can be subsequently changed to left, right, top or bottom.					
	125	U-CI23…	**D125-CI23/T** 072476		10 off
	150	U-CI23…	**D150-CI23/T** 074849		4 off
	125	U-CI43…	**D125-CI43/T** 077222		2 off
	150	U-CI43…	**D150-CI43/T** 079595		2 off
	200	U-CI43…	**D200-CI43/T** 081968		2 off
	125	U-CI44…	**D125-CI44/T** 084341		2 off
	150	U-CI44…	**D150-CI44/T** 086714		2 off
	200	U-CI44…	**D200-CI44/T** 089087		2 off
	250	U-CI44…	**D250-CI44/T** 091460		1 off

	For use with	**Part no.** Article no.	**Price** See price list	Std. pack
Doors				
• Protection type IP65 • Door opening angle to 180° • Door hinges can be subsequently changed to right, left, top or bottom. • Adhesive film for marking the cutout • Fixing screws • Transparent				
	CI23…, D…-CI23	**T-CI23** 093833		2 off
	CI43…, D…-CI43 CI45…, D…-CI45	**T-CI43** 096206		1 off
	CI44…, D…-CI44 CI48…, D…-CI48	**T-CI44** 098579		
Hinged flaps				
• For positioning on cover, change as required • Protection type IP55 • Opening angle to 180° • Hinge on one side cannot be changed • Transparent				
	D...-CI... 145 x 80 mm	**K-A** 043372		
	D...-CI... 185 x 90 mm	**KG-A** 055244		

For use with	Mounting depth mm	Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America	
Cover						
• Transparent • Sealable cover fasteners • Gaskets						
U-CI23…	125	**D125-CI23-NA** 014286		10 off	Product Standards	UL 508A; CSA-C22.2 No.94; IEC/EN 60529; CE marking
	150	**D150-CI23-NA** 014334		4 off	UL File No.	E54120, E337418
U-CI43…	125	**D125-CI43-NA** 014433		5 off	UL CCN	NITW
	150	**D150-CI43-NA** 014480		2 off	CSA File No.	27130
	200	**D200-CI43-NA** 014771		2 off	CSA Class No.	3211-07
U-CI44…	125	**D125-CI44-NA** 014838		5 off	NA Certification	UL Listed, CSA certified
	150	**D150-CI44-NA** 010937		2 off	Specially designed for NA	Yes
	200	**D200-CI44-NA** 010985		2 off	Suitable for	Refer to main component information
	250	**D250-CI44-NA** 011049		1 off		
U-CI45...	200	**D200-CI45-NA** 264022		2 off		
U-CI48…	200	**D200-CI48-NA** 011878		1 off		
	250	**D250-CI48-NA** 011906		1 off		
Covers with door						
• Transparent • Protection type IP65						
U-CI23…	125	**D125-CI23/T-NA** 012038		1 off	Product Standards	UL 508A; CSA-C22.2 No.94; IEC/EN 60529; CE marking
	150	**D150-CI23/T-NA** 012097			UL File No.	E54120, E337418
U-CI43…	125	**D125-CI43/T-NA** 012115			UL CCN	NITW
	150	**D150-CI43/T-NA** 012147			CSA File No.	27130
	200	**D200-CI43/T-NA** 012195			CSA Class No.	3211-07
U-CI44…	125	**D125-CI44/T-NA** 012335			NA Certification	UL Listed, CSA certified
	150	**D150-CI44/T-NA** 012357			Specially designed for NA	Yes
	200	**D200-CI44/T-NA** 012780			Suitable for	Refer to main component information
	250	**D250-CI44/T-NA** 012809				
U-CI48…	200	**D200-CI48/T-NA** 012842				
	250	**D250-CI48/T-NA** 012863				
	200	**D200-CI48/2T-NA** 012392				
	250	**D250-CI48/2T-NA** 012411				

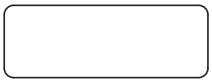
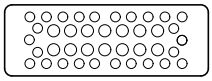
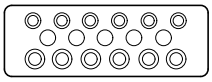
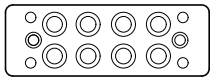
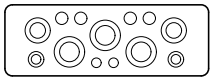
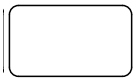
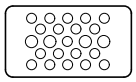
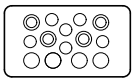
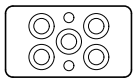
	For use with	Part no. Article no.	Price See price list	Std. pack
Cover fasteners for CI enclosures				
	CI23: 4 off CI43: 4 off CI44: 4 off	**DV125-CI** 001923		10 off
	CI23: 4 off CI43: 4 off CI44: 4 off CI45: 4 off CI48: 6 off	**DV150-250-CI** 001924		10 off
Cover fasteners with cylinder lock for CI enclosures[1)]				
• Lockable cover fasteners with cylinder lock, uniform locking • Key				
	CI23... max. 4 off CI43... max. 4 off CI44... max. 4 off	**DVZ125-CI** 133100		2 off
	CI23... max. 4 off CI43... max. 4 off CI44... max. 4 off CI45... max. 4 off CI48... max. 6 off	**DVZ150-250-CI** 133101		2 off
Set of cover hinges				
• For CI...E, CI...X individual enclosures • For CI... panel enclosure on the sides if a flange is not 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 off
Handgrip				
• Quick-release fastener for opening enclosures manually • Higher cover in conjunction with the extension for the handle				
	CI23(…)-125, 150: 4 off CI43(…)-125, 150: 4 off CI44(…)-125, 150: 4 off	**HG-CI** 046382		20 off
Extension for handle				
• Can be fitted to cover				
	CI43-200/(D200-CI43): 4 off CI44-200/(D200-CI44): 4 off CI48-200/(D200-CI48): 6 off	**VHG50-CI** 044880		8 off
Sealing kit				
• At the top edge of cover with D200-...				
	Use one set diagonally per enclosure. One set consists of 2 sealable locks.	**PLV200-CI** 044881		5 off

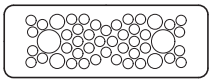
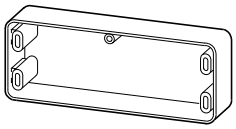
Notes

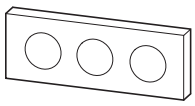
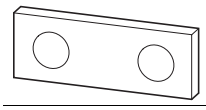
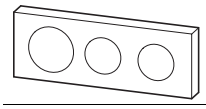
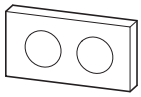
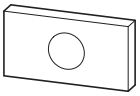
[1)] For sealing, use at least one cover fastener DV125-CI or DV150-250-CI.

Information relevant for export to North America

Product Standards	UL 508A; CSA-C22.2 No.94; IEC/ EN 60529; CE marking
UL File No.	E54120, E337418
UL CCN	NITW
CSA File No.	27130
CSA Class No.	3211-07
NA Certification	UL Listed, CSA certified
Specially designed for NA	Yes
Suitable for	Industrial Control Panels
Degree of Protection	IEC: IP65; UL/CSA Types 1, 12, 13, 4X, indoor only

	Cable entry	Part no. Article no.	Price See price list	Std. pack
Flanges				
• Captive, sponge-rubber gaskets • Quick mounting using wedge lock fasteners (included as standard)				
For enclosure dimension 375 mm				
	Drill as required	**FL4-X** 024355		10 off
	26 x M16, 14 x M20	**FL4-2** 014863		
	5 x M25, 6 x M25/16, 6 x M32/20	**FL4-3** 017236		
	4 x M16, 2 x M25/16, 8 x M40/25	**FL4-4** 019609		
	2 x M16, 4 x M20, 2 x M25/16, 2 x M40/25, 3 x M50/32	**FL4-5** 021982		
For enclosure dimension 250 mm				
	Drill as required	**FL3-X** 093171		10 off
	18 x M16, 4 x M20	**FL3-1** 088425		
	6 x M20, 4 x M25, 4 x M25/16	**FL3-2** 090798		
	1 x M16, 5 x M40/25	**FL3-3** 022644		
For enclosure dimension 187.5 mm				
	Drill as required	**FL2-X** 086052		10 off
	10 x M16, 3 x M20	**FL2-2** 017898		
	6 x M20, 2 x M25/16	**FL2-3** 020271		
For enclosure dimension 125 mm				
	Drill as required	**FL1-X** 078933		10 off

	External diameter of cable mm	For use with	**Part no.** Article no.	**Price** See price list	Std. pack
Sponge-rubber flange IP54					
• Protection type IP54 • For enclosure dimension 375 mm					
	42 x 10 - 13 4 x 15 - 19 2 x 20 - 30	NYY, NYM 3 x 1.5 mm² - 5 x 2.5 mm² NYY, NYM 4 x 4 mm² - 5 x 10 mm² NYY, NYM 4 x 10 mm² - 4 x 50 mm²	**FL4-D** 044879		10 off
Spacers					
• To enlarge the connection compartment by 25 mm					
	–	For fitting to enclosure side, 250 mm for FL3-... flange	**ZRF3** 067734		2 off
	–	For fitting to enclosure side, 375 mm for FL4-... flange	**ZRF4** 070107		2 off

	For use with enclosure size	Plug-in units Number of openings	For use with	**Part no.** Article no.	**Price** See price list	Std. pack
Flanges prepared for Schuko or high-voltage sockets up to 32 A						
• Flange non-transparent RAL7032 • Captive, sponge-rubber gaskets • Quick mounting using wedge lock fasteners (included as standard) • Flanges milled out and predrilled for standardized 5-pole plug-in units • Order plug-in units separately, e.g. from Mennekes • Protection type IP44						
	375 mm	3	Schuko sockets 16 A	**FL4-STV3/16A** 138569		2 off
	375 mm	2	Schuko sockets 16 A	**FL4-STV2/16A** 138570		
	375 mm	3	1 x CEE 32 A 2 x Schuko sockets 16 A	**FL4-STV3/16-32A** 138571		
	250 mm	2	Schuko sockets 16 A	**FL3-STV2/16A** 138572		
	250 mm	1	1 x CEE 16 A	**FL3-STV/1/16A** 138573		

For use with	Mounting depth mm	Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America

Doors

- Protection type IP65
- Door opening angle 180°
- Door hinges can be subsequently changed to left, right, top or bottom.
- Adhesive film for marking the cutout
- Fixing screws
- Transparent

Mounting on all enclosure covers D…-CI23-NA		**T-CI23-NA** 011925		1 off	Product Standards: UL 508A; CSA-C22.2 No.94; IEC/EN 60529; CE marking UL File No.: E54120, E337418 UL CCN: NITW CSA File No.: 27130 CSA Class No.: 3211-07 NA Certification: UL Listed, CSA certified Specially designed for NA: Yes Suitable for: Refer to main component information
Mounting on all enclosure covers D…-CI43-NA		**T-CI43-NA** 011957			
Mounting on all enclosure covers D…-CI44-NA and D…-CI48-NA		**T-CI44-NA** 012001			

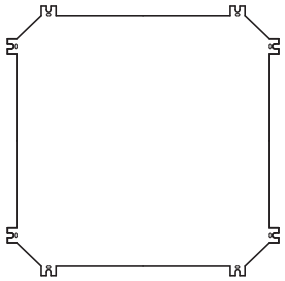
For use with enclosure size	Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America

Flanges

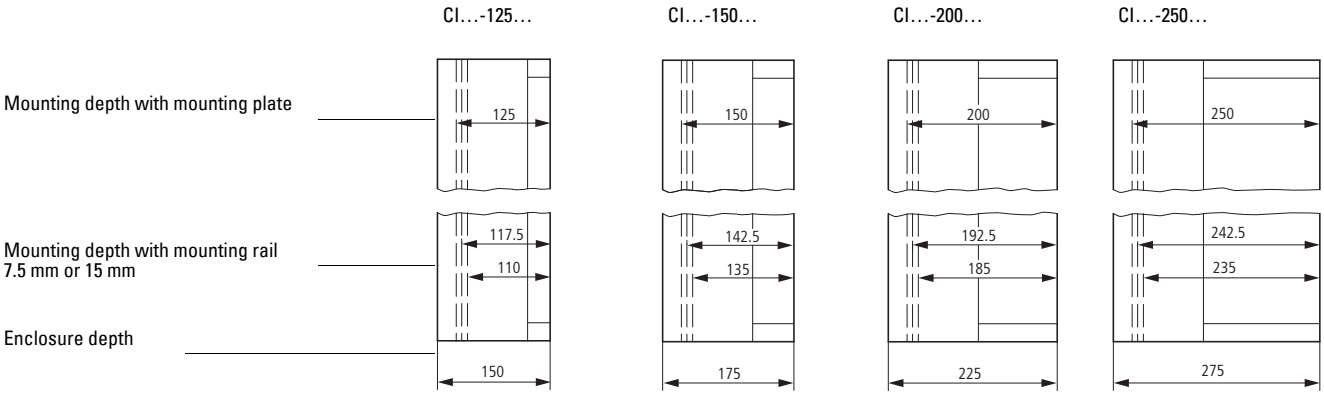
187.5 mm	**FL2-X-NA** 208310		10 off	Product Standards: UL 508A; CSA-C22.2 No.94; IEC/EN 60529; CE marking UL File No.: E54120, E337418 UL CCN: NITW CSA File No.: 27130 CSA Class No.: 3211-07 NA Certification: UL Listed, CSA certified Specially designed for NA: Yes Suitable for: Refer to main component information
250 mm	**FL3-X-NA** 012462			
375 mm	**FL4-X-NA** 208309			

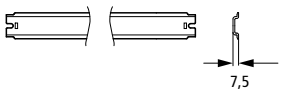
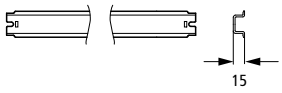
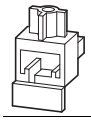
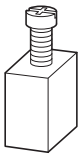
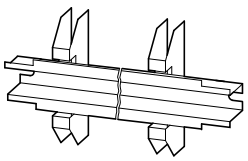
Spacers

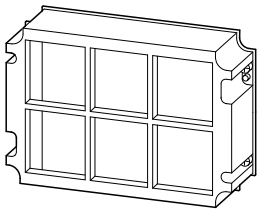
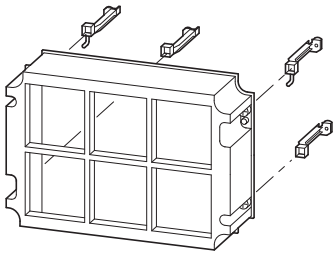
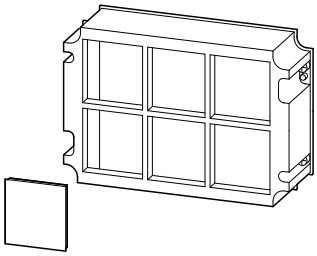
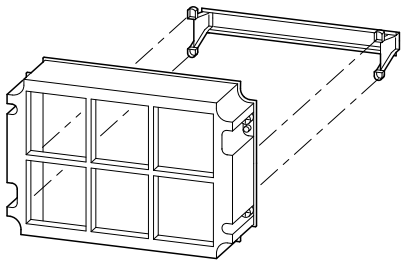
For enlarging the cable entry space, in conjunction with flange FL3-X-NA	**ZRF3-NA** 012479		2 off	Product Standards: UL 508A; CSA-C22.2 No.94; IEC/EN 60529; CE marking UL File No.: E54120, E337418 UL CCN: NITW CSA File No.: 27130 CSA Class No.: 3211-07 NA Certification: UL Listed, CSA certified Specially designed for NA: Yes Suitable for: Refer to main component information

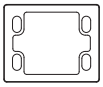
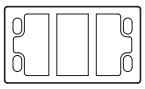
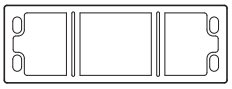
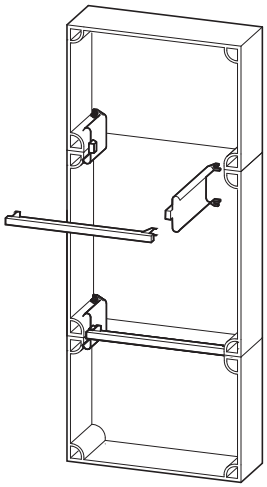
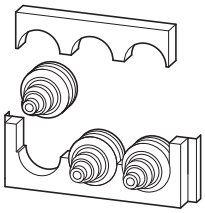
	For use with	Thread	**Part no.** Article no.	**Price** See price list	Std. pack
Mounting plates					
Including 4 captive fixing screws Galvanized steel, 3 mm thick					
	CI23	–	**M3-CI23** 019709		5 off
	CI43...: 1 x CI45...: 2 x	–	**M3-CI43** 029201		
	CI44	–	**M3-CI44** 031574		
	CI45	–	**M3-CI45** 003036		
	CI48	–	**M3-CI48** 036320		
Glass-fibre reinforced insulating material, 4 mm thick Devices are secured using hank nuts					
	CI23	–	**IM4-CI23** 086081		5 off
	CI43...: 1 x CI45...: 2 x	–	**IM4-CI43** 088454		
	CI44	–	**IM4-CI44** 090827		
	CI48	–	**IM4-CI48** 093200		
Hank nuts for insulating material mounting plate					
		M4	**EM4-CI** 002293		100 off
	–	M5	**EM5-CI** 002294		
	–	M6	**EM6-CI** 002295		

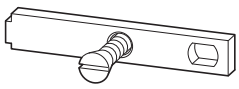
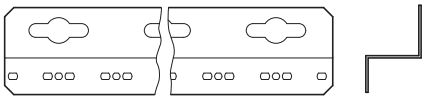
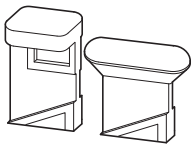
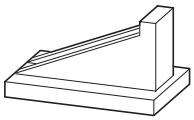
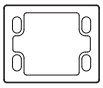
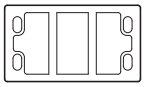
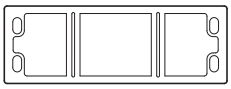
Notes

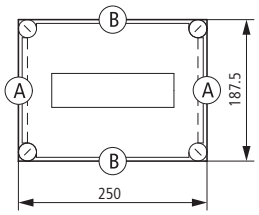
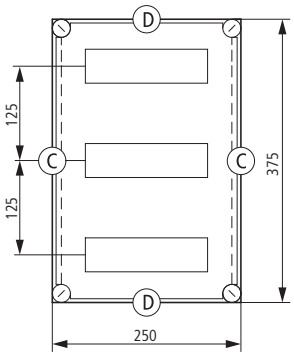
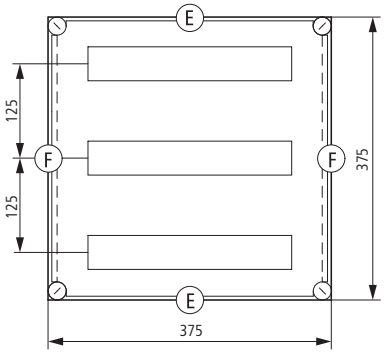


	For use with	Part no. Article no.	Price See price list	Std. pack
Module mounting rail				
• Useful length 330 mm for enclosure dimension 375 mm • Galvanized steel, 3 mm thick • Including fixing screws				
	Horizontal CI43 CI44 CI45 CI48 Vertical CI44	**ML4** 041069		10 off
Mounting rails according to IEC/EN 60715				
• Galvanized sheet steel • Including 2 captive fixing screws				
Height 7.5 mm				
	Useful length 145 mm for enclosure dimension 187.5 mm	**CL2** 029064		20 off
	Useful length 207 mm for enclosure dimension 250 mm	**CL3** 033810		
	Useful length 332 mm for enclosure dimension 375 mm	**CL4** 038556		
Height 15 mm				
	Useful length 145 mm for enclosure dimension 187.5 mm	**CL2-15** 031437		10 off
	Useful length 207 mm for enclosure dimension 250 mm	**CL3-15** 036183		
	Useful length 332 mm for enclosure dimension 375 mm	**CL4-15** 040929		
Accessories for mounting systems				
Spacers • For raising the mounting systems • (4 off required for mounting plate, 2 off required for mounting rail)				
	by 25 mm	**HS25-CI** 002291		25 off
	by 50 mm	**HS50-CI** 002292		25 off
	by 10 mm	**ADT200-190** 002289		10 off
	by 15 mm	**ADT125-110** 002290		10 off
Captive screw • For fixing the mounting systems • Spare parts				
–	Mounting plates, pre-drilled mounting plates, mounting rails, module mounting rails	**UBS4.8** 002288		25 off
Mounting rail support				
	CL4-15 Weight without TS… ≦ 4 kg, with TS… ≦ 10 kg, without TS… with HS25… ≦ 3 kg, without TS… with HS50… ≦ 1.5 kg	**TSCL4-15** 098480		10 off

	For use with	Part no. Article no.	Price See price list	Std. pack
Meter covers				
In CI43E-200, CI44E-250 enclosures For up to six 96 × 96 mm snap-on metering devices. The meter shroud is secured using AH-GA support brackets.				
	CI43E-200, CI44E-200 enclosures	**GA-MS-I43** 053502		1 off
	CI44E-250 enclosure	**GA-MS-I44** 055875		1 off
Set of support brackets				
	For meter and protective shrouds (order meter shroud GA-MS-I43 separately). Each set consists 4 brackets.	**AH-GA** 002305		10 off
Retaining frame				
	To cover unused spaces: Also required as an adapter with snap-on 72 × 72 mm meters and when fitting PKZM0 (voltmeters) as well as T0-... (meter changeover switch). (Order GA-MS-I43 meter shroud separately)	**HBA-4344** 002316		10 off
Fixing kits				
	For mounting up to two PKZM0, T0 Fitting parallel to 250 mm side of the enclosure. (Order GA-MS-I43 meter shroud separately)	**BFS-PT3** 002317		5 off
	For mounting up to three PKZM0, T0 Fitting parallel to 375 mm side of the enclosure. (Order GA-MS-I43 meter shroud separately)	**BFS-PT4** 002318		5 off

	For use with For use with enclosure size	**Part no.** Article no.	**Price** See price list	Std. pack
Connection kits				
Insulating wedge-lock fastener for connecting the enclosures with each other				
	187.5 mm	**BS2-CI** 090750		10 off
	250 mm 500 mm Use two off	**BS3-CI** 097869		
	375 mm 750 mm Use two off	**BS4-CI** 014815		
Flange adapters				
For connecting enclosures with sides of different lengths				
	–	**FT-CI** 002319		10 off
Cross strut kits				
Enables fitting of cables or busbars from the front				
	250 mm	**STB3-CI** 219217		1 off
	375 mm	**STB4-CI** 034223		1 off
Stepped cable grommets				
Enables fitting of cables or busbars from the front				
	250 mm For 2 cables of 14 – 54 mm	**KS3-CI** 057621		1 off
	375 mm For 3 cables of 14 – 68 mm	**KS4-CI** 062367		1 off

	For use with	Part no. Article no.	Price See price list	Std. pack
Fixing strap kits				
• For securing CI enclosures directly to the wall • For max. 4 CI43... enclosures				
	Each set contains 4 straps.	**BL-CI** 036168		5 off
	Steel type V2A Each set contains 4 straps.	**BL-CI-VA** 038541		5 off
Wall fixing bracket				
• For securing CI enclosures directly to the wall with a clearance of 50 mm • Fit one wall fixing bracket to every second enclosure across the width, for transport purposes add more brackets at the bottom				
	Section length 2125 mm, cut to fit.	**W16/32** 090146		1 off
	Max. 2 × CI43 one above the other	**W4/8** 048755		
	Max. 2 × CI44 one above the other	**W6/12** 051128		
	Max. 4 × CI43 one above the other	**W8/16** 053501		
	Max. 5 × CI43 one above the other	**W10/20** 055874		
Fixing screw				
	For securing CI enclosures to wall fixing brackets W... For fixing CI enclosures on WS..., WW... profiles	**LT284-M6X20-C** 050325		100 off
Coupling piece				
	Enclosure assembly and flange connection, K-CI required	**VS-CI** 002315		100 off
	For attatching gland plates, K-CI required	**VS-KS-CI** 038460		25 off
Wedge				
	With VS-CI or VS-KS-CI for enclosure assembly and attaching flanges and gland plates	**K-CI** 002314		100 off
Bracket				
	Enclosure assemblies, enclosure dimension 375 mm	**KD4-CI** 002313		25 off
Gaskets				
For enclosure assembly				
	Enclosure dimension 187.5 mm	**D2-CI** 002310		20 off
	Enclosure dimension 250 mm	**D3-CI** 002311		
	Enclosure dimension 375 mm	**D4-CI** 002312		

Dimensions mm	Single-pole miniature circuit-breakers (space unit) Number	PE and N terminals Number x cross-section mm²	Model Type cover	 Type door	**Part no.** Article no.	**Price** See price list	Std. pack
MCB individual enclosures							
• Metric cable entry knockouts in all sides • Protection type IP65 • For flush mounting devices with size 1 to DIN 43880 • Transparent cover with quick-release fasteners, transparent door for operator access to devices fitted • Mounting rails for snap-fitting the devices • Blanking strip for unused locations, protective shroud with inscription label • PE/N bars • Fixing straps for wall mounting, cover fasteners can be sealed • Enclosure depth 150 mm							
	9	On each 2 x (6 - 16) On each 7 x (1 - 4)	Transparent	–	**AE/I23E** 029766		1 off
	9	On each 2 x (6 - 16) On each 7 x (1 - 4)	–	Transparent	**AE/I23E/T** 032139		
	27	On each 4 x (6 - 35) On each 20 x (1 - 4)	Transparent	–	**AE/I43E** 000239		
	27	On each 4 x (6 - 35) On each 20 x (1 - 4)	–	Transparent	**AE/I43E/T** 002612		
	45	On each 4 x (6 - 35) On each 20 x (1 - 4)	Transparent	–	**AE/I44E** 004985		
	45	On each 4 x (6 - 35) On each 20 x (1 - 4)	–	Transparent	**AE/I44E/T** 061937		

Notes

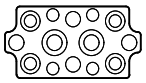
- - - PE/N bars

A



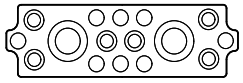
1 x M32/20
6 x M20
2 x M16

B



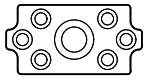
2 x M32/20
4 x M25/16
4 x M20
4 x M16

C



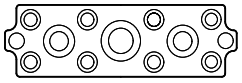
2 x M50/20
6 x M25/16
8 x M20

D



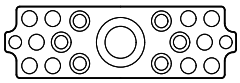
1 x M50/32
6 x M25/16

E



1 x M50/32
2 x M40/25
8 x M25/16
2 x M20

F

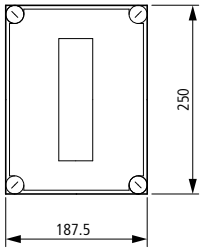
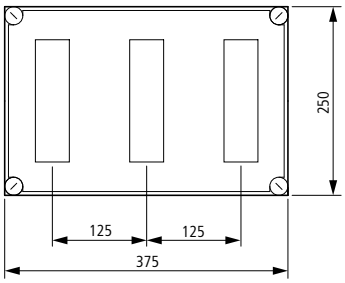
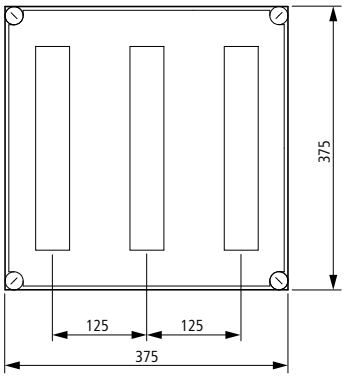


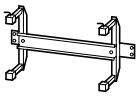
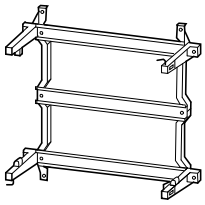
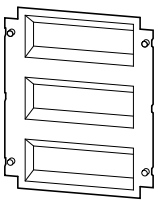
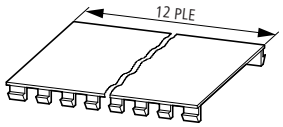
1 x M63/40
6 x M25/16
10 x M20
2 x M16

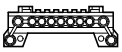
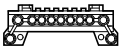
Enclosures for miniature circuit-breakers

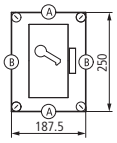
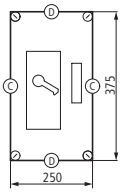
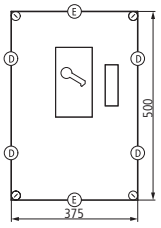
AV/I...

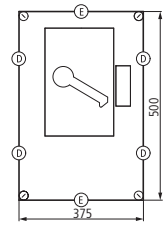
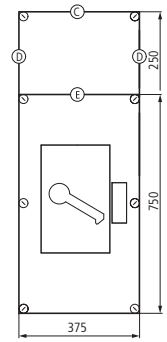
HPL20032EN

Dimensions mm	Enclosure depth mm	Single-pole miniature circuit-breakers (space unit) Number	**Part no.** Article no.	**Price** See price list	Std. pack
Enclosures for miniature circuit-breakers					
• Sides closed, but with full area knockout, open top and bottom • Protection type IP65 • For flush mounting devices with size 1 to DIN 43880 • Transparent cover with quick-release fasteners • Mounting rails for snap-fitting the devices • Blanking strip for unused locations, protective shroud with inscription label • Fixing straps for wall mounting, cover fasteners can be sealed					
	150	9	**AV/I23-125** 036089		1 off
	175	9	**AV/I23-150** 043208		
	150	27	**AV/I43-125** 047954		
	225	27	**AV/I43-200** 045581		
	150	45	**AV/I44-125** 059819		
	225	45	**AV/I44-200** 062192		

	For use with	Part no. Article no.	Price See price list	Std. pack	Notes
Mounting rail supports					
One row					
	CI23	**TG23** 044004		1 off	162 mm busbar lengths For 9 space units
Three rows					
	CI43	**TG43** 046377		1 off	162 mm busbar lengths for 3 x 9 space units
	CI44	**TG44** 048750		1 off	270 mm busbar lengths for 3 x 15 space units
Protective shroud					
Busbar tag shroud with inscription label					
	TG23	**GA-0/I23** 051123		5 off	–
	TG43	**GA-0/I43** 053496			–
	TG44	**GA-0/I44** 055869			–
Blanking strips					
For blanking off unused locations					
	GA-0/I…	**VST12** 002322		10 off	For 12 space units

	PE and N terminals Quantity x Cross-section mm²	Gauge pin IEC/EN 60947-1	For use with	Part no. Article no.	Price See price list	Std. pack
N bars						
	2 x 6 - 35 7 x 1 - 4	B8, A3	TG23	**N23AE** 058242		1 off
	4 x 6 - 35 20 x 1 - 4	B8, A3	TG43 TG44	**N434AE** 060615		1 off
PE (PEN) bars						
	4 x 6 - 35 20 x 1 - 4	B8, A3	TG43 TG44	**PEN434AE** 062988		1 off
	2 x 6 - 35 7 x 1 - 4	B8, A3	TG23	**PEN23AE** 065361		1 off

	Rated uninterrupted current I_u A	Can be used for basic device	Can be used with terminals[2]	Basic enclosure	**Part no.** Article no.	**Price** See price list	Std. pack
Enclosures for NZM... circuit-breakers/N... switch-disconnectors, 3- and 4-pole							
• For use as individual enclosures[1] or in distribution boards • For distribution board applications observe the characteristic data of other apparatus. • Protection type IP65, when enclosures closed throughout • Metric cable entry knockouts in all sides. Exception: CI48...: Side panels without knockouts, open at bottom • Sidewalls with knockouts; can be grouped with other devices • With door coupling rotary handle **NZM...-XTVD** and extension shaft • Transparent cover, predrilled • Mounting plate predrilled for switches and one PE and N terminal each • Mounting plate, 3 mm sheet steel • Sealable cover fasteners • Fixing material for fixing material • Fixing strap BL-CI • Can not be combined with remote operator NZM...-XR, plug-in unit NZM...-XSV or withdrawable unit NZM...-XAV. • Rated operating voltage 690 V AC							
	63	NZM1(-4) N1(-4) N(S)1(-4)	K10/1 K25/1 K50/1 K95/1N...	CI23E-150	**MCCB1-63/I23E-150** 138538		1 off
	125	NZM1(-4) N1(-4) N(S)1(-4)	K10/1 K25/1 K50/1 K95/1N...	CI43E-150	**MCCB1-125/I43E-150** 138539		
	160	NZM1(-4) N1(-4) N(S)1(-4)	K10/1 K25/1 K50/1 K95/1N...	CI43E-200	**MCCB1-160/I43E-200** 138540		
	200	NZM2(-4) N2(-4) N(S)2(-4)	K10/1 K25/1 K50/1 K95/1N... K150/1N...	CI43E-200	**MCCB2-200/I43E-200** 138541		
	250	NZM2(-4) N2(-4) N(S)2(-4)	K10/1 K25/1 K50/1 K95/1N... K150/1N...	CI45E-200	**MCCB2-250/I45E-200** 138542		

	Rated uninterrupted current I_u A	Can be used for basic device	Can be used with terminals[2]	Basic enclosure	**Part no.** Article no.	**Price** See price list	Std. pack
	400	NZM3(-4) N3(-4) N(S)3(-4)	K50/1 K95/1N... K150/1N... K240/1N...	CI45E-200	**MCCB3-400/I45E-200** 138543		1 off
	630	NZM3(-4) N3(-4) N(S)3(-4)	K50/1 K95/1N... K150/1N... K240/1N... K2X240/1N...	CI combination of CI48-200 + CI43E-200 + STB4-CI	**MCCB3-630/I48/I43E-200** 138544		

Notes

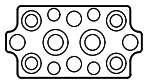
[1] Order insulated additional terminal for fourth or fifth pole separately → Chapter 16, Accessories for control panels
[2] Observe short-circuit values of individual enclosures → Chapter 17: Compact circuit-breakers NZM, compact switch-disconnectors N up to 1600 A

A



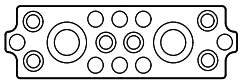
1 x M32/20
6 x M20
2 x M16

B



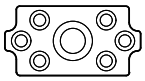
2 x M32/20
4 x M25/16
4 x M20
4 x M16

C



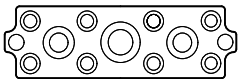
2 x M50/20
6 x M25/16
8 x M20

D

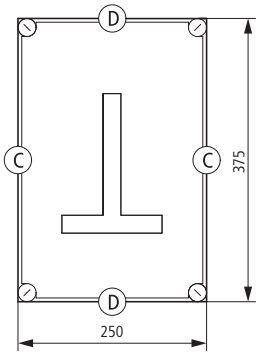
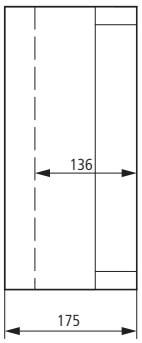
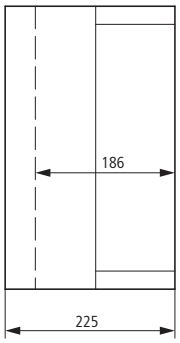
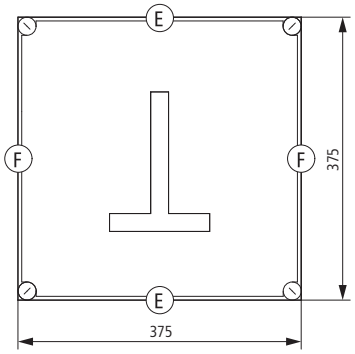
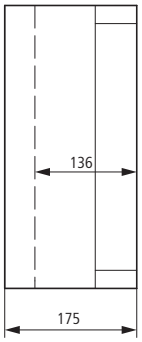
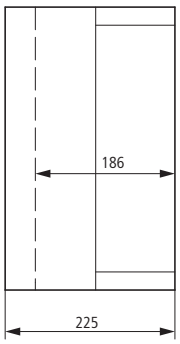


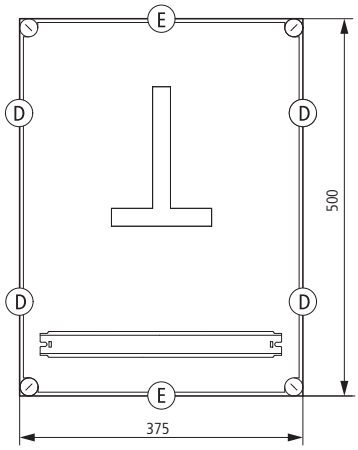
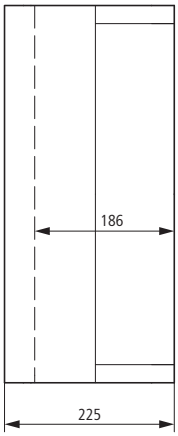
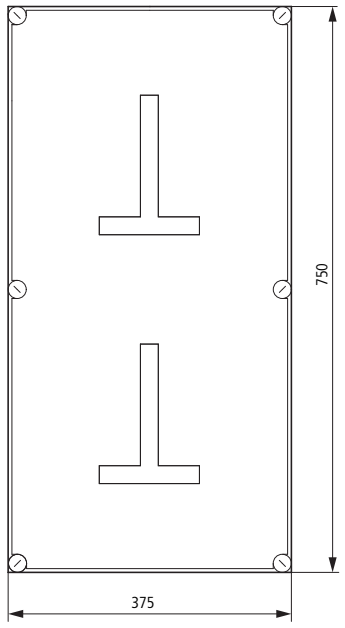
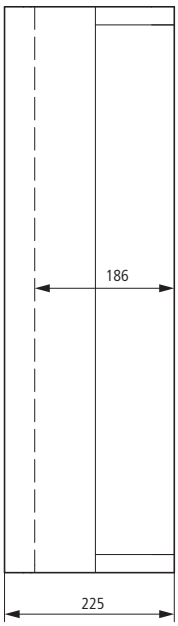
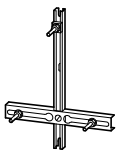
1 x M50/32
6 x M25/16

E



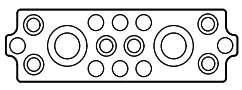
1 x M50/32
2 x M40/25
8 x M25/16
2 x M20

Dimensions mm	Enclosure depth: dimensions from top: 1. Meter rail 2. Enclosure depth mm	Type cover	**Part no.** Article no.	**Price** See price list	Std. pack
Meter enclosures , meter rail					
• Metric cable entry knockouts in all sides (exception: ZG/I48-200) • Protection type IP65 • Cover/door transparent • ZG/I48-200 top and bottom with full area knockouts for FL4... flange • Meter rail to DIN 43853 including meter fixing screws and nuts • Fixing straps for wall fixing • Sealable fasteners at the top edge of the cover					
		Transparent	**ZG/I43E-G-150** 013151		1 off
		Transparent	**ZG/I43E-G-200** 015524		
		Transparent	**ZG/I44E-150** 017897		
		Transparent	**ZG/I44E-200** 020270		

Dimensions mm	Enclosure depth: dimensions from top: 1. Meter rail 2. Enclosure depth mm	Type cover/ Type door	**Part no.** Article no.	**Price** See price list	Std. pack
Meter enclosures , meter rail					
		Transparent	**ZG/I45E-200-T** 090145		1 off
		Transparent	**ZG/I45E-200** 098479		
		Transparent	**ZG/I48-200** 022643		
Meter rail					
	–	To DIN 43853, including three counter fixing bolts with nuts to DIN 46300. For fitting on mounting plates, sealing → Page 20/22 → Page 20/26	**ZK1** 001892		5 off

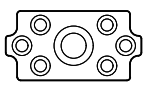
Notes

C



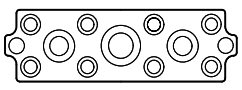
2 x M50/20
6 x M25/16
8 x M20

D



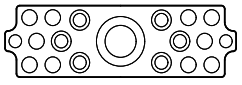
1 x M50/32
6 x M25/16

E



1 x M50/32
2 x M40/25
8 x M25/16
2 x M20

F

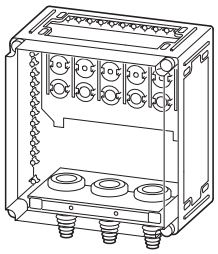


1 x M63/40
6 x M25/16
10 x M20
2 x M16

Distribution board terminal enclosure

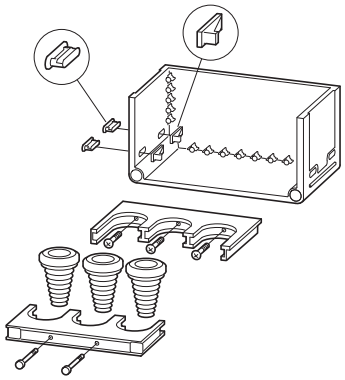
K...KST

HPL20038EN

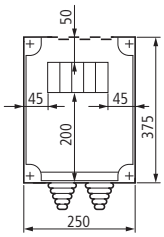
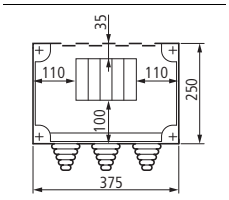
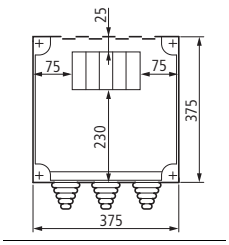


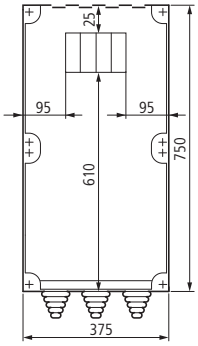
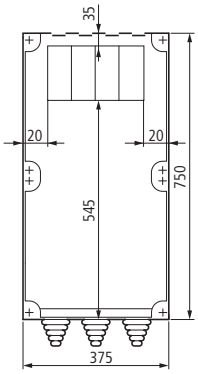
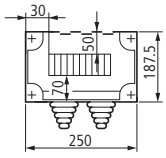
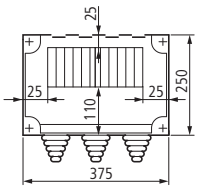
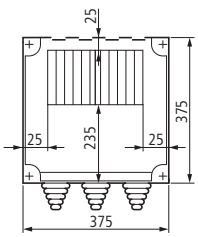
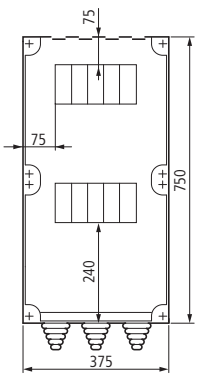
Distribution board terminal enclosure

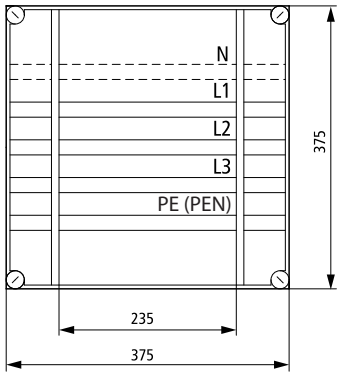
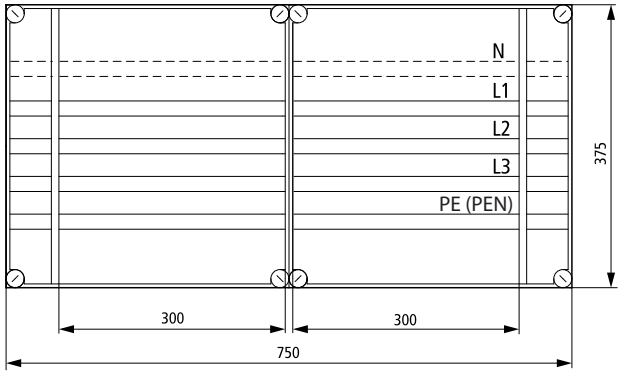
- Distribution board enclosure with terminals and fitted gland plate
- External connection for round and solid sector conductors, internal for copper strip, conversion kits to round and solid sector conductors → Chapter 16: Accessories for control panels
- Large knockouts at top, and apertures for wedge-lock fasteners
- Closed side walls with full area knockouts
- Fitting of cable supports in the distribution board with wedge-lock fastener
- Protection type IP65 (gland plates at bottom)



- Stepped cable grommet
- Split gland plate
- Cables can be inserted from the front
- Enclosure KST... with fitted gland plate
- Subsequent conversion of CI distribution board enclosures and CI individual enclosures possible

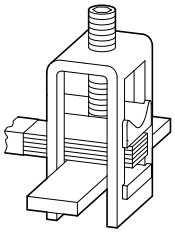
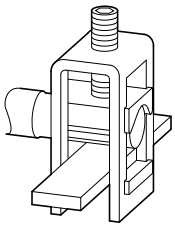
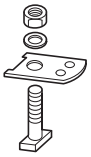
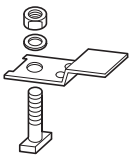
	Rated uninterrupted current I_u	Pole	Enclosure depth	Terminal capacity (stranded conductors) mm² **Strip terminal (max.) mm**	Basic enclosure Mounting system Devices (Number)	**Part no.** Article no.	**Price** See price list	Std. pack
	A		mm	mm²				
	160	4	225	1 x 16...95 **6 x 9 x 0.8**	KST34-200 L5-CI43 K95/... (4 or 5)	**K95/4/KST34** 025031		1 off
		5				**K95/5/KST34** 027404		
	250	4		1 x 35...150 2 x 16...70 **6 x 16 x 0.8**	KST34-200 L5-CI43 K150/... (4 or 5)	**K150/4/KST34** 029777		
		5				**K150/5/KST34** 032150		
	160	4	225	1 x 16...95 **6 x 9 x 0.8**	KST43-200 L5-CI43 K95/... (4 or 5)	**K95/4/KST43** 041642		
		5				**K95/5/KST43** 039269		
	250	4		1 x 35...120 2 x 16...70 **6 x 16 x 0.8**	KST43-200 L5-CI43 K150/... (4)	**K150/4/KST43** 034523		
	400	4	225	1 x 50...240 2 x 25 x 120 **10 x 16 x 0.8**	KST44-200 L5-CI43 K240/... (4 or 5)	**K240/4/KST44** 044015		
		5				**K240/5/KST44** 046388		

	Rated uninterrupted current I_u	Pole	Enclosure depth	Terminal capacity (stranded conductors) mm² **Strip terminal (max.) mm**	Basic enclosure Mounting system Devices (Number)	**Part no.** Article no.	**Price** See price list	Std. pack
	A		mm	mm²				
	400	4	225	1 x 50...240 2 x 25 x 120 **10 x 16 x 0.8**	KST48-200 L5-CI43 K240/... (4 or 5)	**K240/4/KST48** 048761		1 off
		5				**K240/5/KST48** 051134		
	630	4		1 x 150...300 2 x 50 x 240 **11 x 21 x 1.0**	KST48-200 L5-CI43 K2x240/... (4 or 5)	**K2X240/4/KST48** 055880		
		5				**K2X240/5/KST48** 053507		
	800	4		2 x 120...240 3 x 50 x 185 **2 x (21 x 11 x 1)**	KST48-200 L5-CI43 K3x185/4	**K3X185/4/KST48** 058253		
	1000	4	225	2 x 150...300 3 x 50...240 **50 x 12**	KST48-200 L5-CI43 K3x240/4	**K3X240/4/KST48** 060626		
	2 x 100	2 x 4	175	1 x 16...50 **3 x 9 x 0.8**	CI23E-150 L3/5-CI23 K50/1	**2K50/4/KST32** 067745		
		2 x 5				**2K50/5/KST32** 070118		
	2 x 160	2 x 4	225	1 x 16...95 **6 x 9 x 0.8**	KST43-200 L3/5-CI23 K95/... (4 or 5)	**2K95/4/KST43** 074864		
		2 x 5				**2K95/5/KST43** 072491		
	2 x 250	2 x 4	225	1 x 35...150 2 x 16x70 **6 x 16 x 0.8**	KST44-200 L5-CI43 K150/... (4 or 5)	**2K150/4/KST44** 077237		
		2 x 5				**2K150/5/KST44** 079610		
	2 x 400	2 x 4	275	1 x 50...240 2 x 25 x 120 **10 x 16 x 0.8**	KST48-200 L5-CI43 K240/... (4 or 5)	**2K240/4/KST48** 062999		
		2 x 5				**2K240/5/KST48** 065372		

Dimensions mm	Rated operational current I_e A	Features	Copper factor[1)]	**Part no.** Article no.	**Price** See price list	Std. pack
Busbar enclosures						
• Protection type IP65 • Transparent cover • Top and bottom with full area knockouts • Sides closed, but with full area knockout • Fixing straps for wall fixing • Sealable cover fasteners • Enclosure depth 225 mm • 50 mm between busbar centres						
	250	L1, L2, L3, PEN		**SKA254-I44** 034221		1 off
	400	L1, L2, L3, PEN		**SKA404-I44** 034220		
	630	L1, L2, L3, PEN		**SKA634-I44** 090135		
	250	L1, L2, L3, PE, N		**SKA255-I44** 034209		
	400	L1, L2, L3, PE, N		**SKA405-I44** 034208		
	630	L1, L2, L3, PE, N		**SKA635-I44** 090138		
	250	L1, L2, L3, PEN		**SKA254-2I44** 034207		
	400	L1, L2, L3, PEN		**SKA404-2I44** 034204		
	630	L1, L2, L3, PEN		**SKA634-2I44** 090141		
	250	L1, L2, L3, PE, N		**SKA255-2I44** 034203		
	400	L1, L2, L3, PE, N		**SKA405-2I44** 034202		
	630	L1, L2, L3, PE, N		**SKA635-2I44** 090144		
Busbar coupling kits						
Including sealing and fixing material						
	250 - 630	L1, L2, L3, PE, N		**SVS250630-5** 002066		1 off
	1000	L1, L2, L3 for copper busbars 2 × 30 × 10 mm		**AVS30L** 093842		3 off
	500	PE, N, PEN for copper busbar 30 × 10 mm		**AVS30PEN** 096215		2 off
	1600	L1, L2, L3 for copper busbars 3 × 40 × 10 mm		**AVS40** 098588		3 off

Notes

[1)] Calculation of additional material cost → Page 23/2
Selection of busbar cross-section and usable device → Page 20/73

	For use with busbars mm	Terminal capacity for flat strip mm	Operating current of the flat strip I_e A	Terminal capacity Round conductor mm^2	**Part no.** Article no.	**Price** See price list	Std. pack	**Notes**
Busbar terminals								
For connection of flat strip or round conductor								
	Cu 12 x 5	3 x 9 x 0.8	100	⊙ 16 - 35 ⊜ 16 - 25	**K12X5-1** 002281		10 off	
	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			
	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			
	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			
	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				
	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				
	Cu 20 x 10-15 Cu 20 x 5-15	3 x 9 x 0.8 11 x 21 x 1	100 630	⊙ 35 - 300 ⊜ 35 - 240	**K20X15** 002284			
Connection for flat strip and copper busbar								
	Cu 2 x 30 x 10	2 x 50 x 12	–	–	**K30X10L** 081977		3 off	For main conductor L1, L2, L3
	Cu 1 x 30 x 10	50 x 12	–	–	**K30X10PEN** 084350		2 off	For protective or neutral conductor PE, N, PEN
	Cu 3 x 40 x 10	2 x 50 x 12	–	–	**K40X10** 086723		3 off	For main conductor L1, L2, L3
	Cu 1 x 30 x 10	3 x 9 x 0.8 - 11 x 21 x 1	100 630	–	**AW3040L-K20** 089096		5 off	In combination with busbar terminals K20X5, K20X10, K20X15
	Cu 2 x 30 x 10 Cu 2 x 40 x 10	3 x 9 x 0.8 - 11 x 21 x 1	100 630	–	**AW30PEN-K20** 091469		5 off	In combination with busbar terminals K20X5, K20X10, K20X15

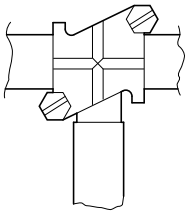
Notes

[1] Terminal capacity:
⊙ solid
⊙ stranded
⊜ flexible with ferrule
Terminals AK... → Chapter 16, Accessories for control panels

Accessories for busbar enclosures

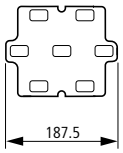
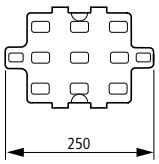
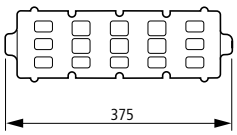
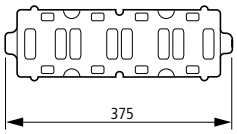
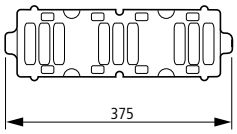
K...X

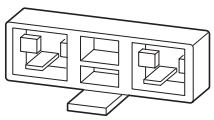
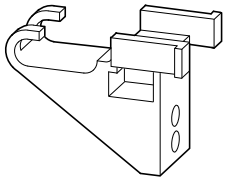
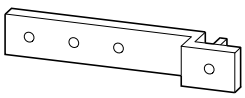
HPL20042EN

	For use with busbars mm	Terminal capacity for flat strip mm	Operating current of the flat strip I_e A	Terminal capacity for round conductor[1] mm^2	**Part no.** Article no.	**Price** See price list	Std. pack
Connection flat strip							
	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 off
	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 off
	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 off
	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 off
	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 off
	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		5 off

Notes

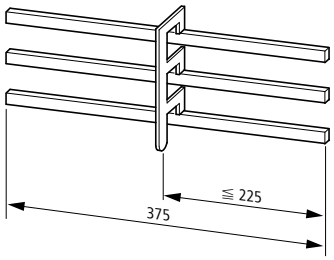
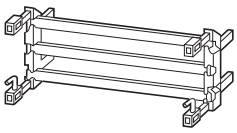
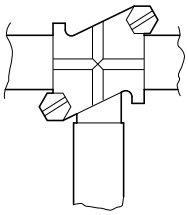
[1] Terminal capacity:
○ solid
⦵ stranded
⦶ flexible with ferrule

	Rated operational current I_e A	For use with	Part no. Article no.	Price See price list	Std. pack
Busbar support					
For use between two enclosures • Component mounting possible on busbar, → Page 20/46 • Interval between busbar supports max. 375 mm					
Interval between busbar centres 40 mm					
	160	L1, L2, L3, PE, N: 12 x 5	**SH0165/2** 010774		5 off
Interval between busbar centres 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 off
	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: 20 x 10	**SH0635/4** 060620		
	1000	L1, L2, L3: 2 x 30 x 10; PE, N: 30 x 10	**SH1005/4** 062993		
	1600	L1, L2, L3: 3 x 40 x 10	**SH1603/4** 065366		

	Rated operational current I_e A	Supplied in lengths of mm	For use with	Copper factor	Dimensions mm	**Part no.** Article no.	**Price** See price list	Std. pack
Busbars								
Flat copper busbars								
Tinned	160	1500	SH0165/2		12 x 5	**CU12X5** 034121		10 off
Tinned	160	2250	SH0165/2		12 x 5	**CU12X5-2250** 005093		10 off
Tinned	250	1500	SH0635/3		20 x 5	**CU20X5** 044092		10 off
Tinned	250	2250	SH0635/4 SH0632		20 x 5	**CU20X5-2250** 007466		10 off
Tinned	400	1500	SH0635/3		20 x 10	**CU20X10** 041719		5 off
Tinned	400	2250	SH0635/4 SH0632		20 x 10	**CU20X10-2250** 009839		5 off
Untreated	–	1500	SH1005/4		30 x 10	**CU30X10** 051211		1 off
Untreated	–	1500	SH1603/4		40 x 10	**CU40X10** 063076		3 off
PE/N busbar supports								
For relocating PE/N bars from the busbar enclosure to the terminal compartment (floor-standing distribution boards)								
	250 400 630	–	–		20 x 5 20 x 10 20 x 15	**SH0632** 067739		5 off
Support bracket for busbar supports								
To secure busbar supports in the first and last enclosures when using busbar links and transport splits								
	–	–	SH0635/…		–	**HSH-CI** 002320		5 off
	–	–	SH0165/2 to SH0632		–	**HSH0632** 002321		5 off

Notes

Calculation of additional material cost → Page 23/2
Selection of busbar cross-section and usable device → Page 20/73

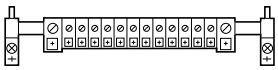
	For use with	Part no. Article no.	Price See price list	Std. pack	Notes
Busbar bracing					
Fitting in the centre between two SH0635/... busbar supports when fitting RS...3-50 busbar mounting fuses on 20 x 5 copper busbars					
	–	**SVCU20X5** 002323		10 off	–
Busbar assemblies					
• For mounting busbar mounting fuse bases • 3 pole, for 250 A rated operational current					
	CI23	**SE-RS-I23** 041632		1 off	Set of connecting links → Page 20/47
	CI43	**SE-RS-I43** 044005			
	CI44	**SE-RS-I44** 001890			
Cross terminal					
For fuse enclosure and busbar fuse enclosures as well as SE-RS-I43 busbar assemblies					
	CU20X5 CU20X10 CU20X15	**K20X15/40-A** 012783		10 off	Terminal capacity for flat strip: from 3 x 9 x 0.8 mm Up to 10 x 16 x 0.8 mm ∅ 4 - 10 mm² (solid)

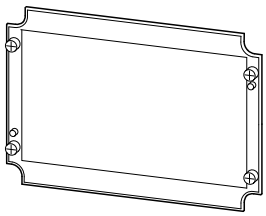
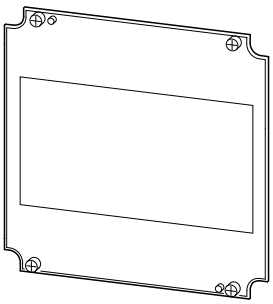
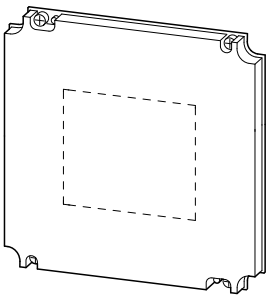
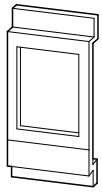
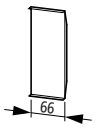
Notes LV h.b.c. fuse switch-disconnector, Insulating surround → Chapter 19: Circuit-breakers, fuses
Busbar mounting fuse bases, covers for busbar mounting fuse bases → Online Catalog

Modular busbar system, modules for fuse enclosures

N...RS..., PEN...RS...

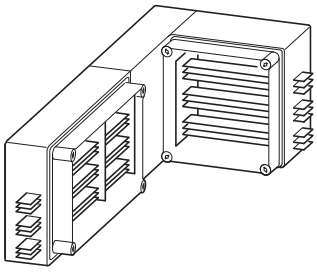
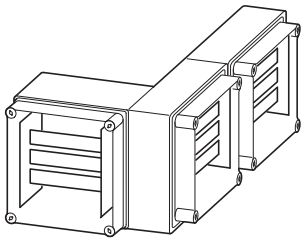
HPL20046EN

	Conductor cross section solid mm²	stranded mm²	For use with	**Part no.** Article no.	**Price** See price list	Std. pack
N bars						
	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 off
	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		
	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		
	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		
	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		
	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		
PE (PEN) bars						
	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 off
	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		
	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		
	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		
	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		
	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		

	For use with	Permissible devices	Part no. Article no.	Price See price list	Std. pack
Protective shroud					
Always also order fixing kit AH-GA.					
	CI23…	RS...3-50 busbar mounting fuse base	**GA-RS-I23** 046378		1 off
	CI43…	RS...3-50 busbar mounting fuse base GSTA00-160-40-60-AOU fuse switch-disconnector	**GA-RS-I43** 048751		1 off
	CI43…	RS...3-50 busbar mounting fuse base GSTA00-160-40-60-AOU fuse switch-disconnector	**GA-RS-I43-G** 017907		1 off
	CI44…	RS...3-50 busbar mounting fuse base GSTA00-160-40-60-AOU fuse switch-disconnector	**GA-RS-I44** 022653		2 off
	CI43…	RS...3-50 busbar mounting fuse base GSTA1 fuse switch-disconnector, with A-GSTA1/...adapter plate	**GA-1-I43-G** 020280		4 off
	CI44…	Fuse switch-disconnector with A-GSTA1/... adapter plate, GSTA1	**GA-1-I44** 025026		2 off
	CI44…	Fuse switch-disconnector with A-GSTA2/... adapter plate, GSTA2	**GA-2-I44** 027399		4 off
Insulating surround for fuse switch-disconnectors					
For compensation between the GA... protective cover and the device (for use in the CI insulated distribution board system)					
	GST00	–	**B-GST00-40-60/CI/1** 224553		5 off
Blanking strips					
To cover unused spaces					
	GA-RS-I43 GA-RS-I44	–	**AS-RS-CI** 002304		10 off
Set of connecting links					
For connection of the busbars for RS…/I23, RS…/I43, RS…/I44E, 250 A for L1, L2, L3. Each set contains 3 links					
	RS.../I23E RS.../I43E RS.../I44E	–	**VBS-RS** 002307		5 off

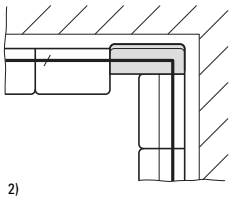
Corner enclosures

- Protection type IP65
- Up to 5-pole and up to 1000 A
- 3 pole 1600 A
- For 1600 A busbars additional enclosure for PE/N bars

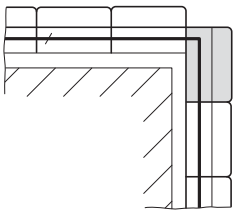
		Rated operational current I_e A	Part no. Article no.	Price See price list	Std. pack	Notes
	**Design "In the corner"[1]** • Connection material (transport split) • Busbars pre-bent • Non-transparent cover	250 400 630	**ESKI630-310/I44** 002144		1 off	For main conductor L1, L2, L3 For protective or neutral conductor PE, PEN
			ESKI630-320/I44 002169			For main conductor L1, L2, L3 For protective or neutral conductor PE, N
		1000	**ESKI1000-310/I44** 002171			For main conductor L1, L2, L3 For protective or neutral conductor PE, PEN
			ESKI1000-320/I44 002170			For main conductor L1, L2, L3 For protective or neutral conductor PE, N
		1600	**ESKI1600-300/I44** 002172			For main conductor L1, L2, L3
		1000	**EPENI1000-010/I44** 002173			For protective or neutral conductor PE, PEN
			EPENI1000-020/I44 002174			For protective or neutral conductor PE, N
		1600	**EPENI1600-010/I44** 002176			For protective or neutral conductor PE, PEN
			EPENI1600-020/I44 002175			For protective or neutral conductor PE, N
	**Design "Around the corner"[2]** • Connection material (transport split) • Busbars pre-bent • Transparent cover	250 400 630	**ESKU630-310/I44** 002178			For main conductor L1, L2, L3 For protective or neutral conductor PE, PEN
			ESKU630-320/I44 002179			For main conductor L1, L2, L3 For protective or neutral conductor PE, N
		1000	**ESKU1000-310/I44** 002181			For main conductor L1, L2, L3 For protective or neutral conductor PE, PEN
			ESKU1000-320/I44 002180			For main conductor L1, L2, L3 For protective or neutral conductor PE, N
		1600	**ESKU1600-300/I44** 002182			For main conductor L1, L2, L3
		1000	**EPENU1000-010/I44** 002183			For protective or neutral conductor PE, PEN
			EPENU1000-020/I44 002184			For protective or neutral conductor PE, N
		1600	**EPENU1600-010/I44** 002186			For protective or neutral conductor PE, PEN
			EPENU1600-020/I44 002185			For protective or neutral conductor PE, N

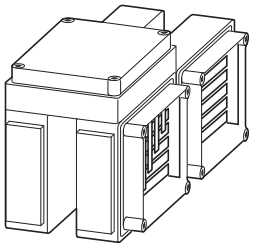
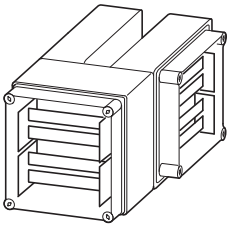
Notes

1)



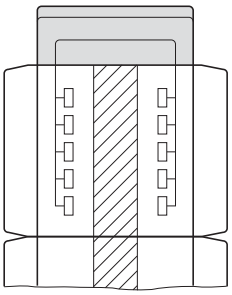
2)



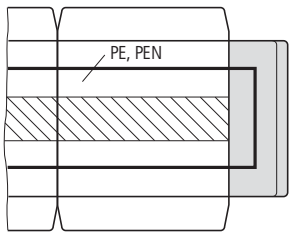
		Rated operational current I_e A	**Part no.** Article no.	**Price** See price list	Std. pack	**Notes**
Design "Back-to-back"						
• Protection type IP65 • Connection material • Transparent cover • For 1600 A busbars additional enclosure for PE/N bars						
	630 A busbar[1]	250 400 630	**RSK630-310/I44** 002154		1 off	For main conductor L1, L2, L3 For protective or neutral conductor PE, PEN
			RSK630-320/I44 002195			For main conductor L1, L2, L3 For protective or neutral conductor PE, N
		1000	**RSK1000-310/I44** 002197			For main conductor L1, L2, L3 For protective or neutral conductor PE, PEN
			RSK1000-320/I44 002196			For main conductor L1, L2, L3 For protective or neutral conductor PE, N
		1600	**RSK1600-300/I44** 002198			For main conductor L1, L2, L3
	PE/N busbars[2]	1000	**RPEN1000-010/I44** 002199			For protective or neutral conductor PE, PEN
			RPEN1000-020/I44 002200			For protective or neutral conductor PE, N
		1600	**RPEN1600-010/I44** 002202			For protective or neutral conductor PE, PEN
			RPEN1600-020/I44 002201			For protective or neutral conductor PE, N

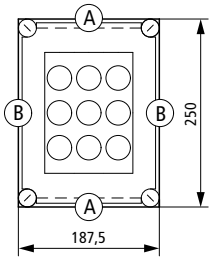
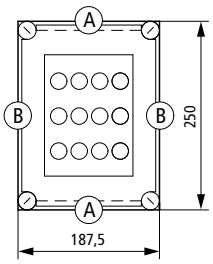
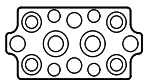
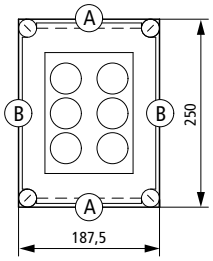
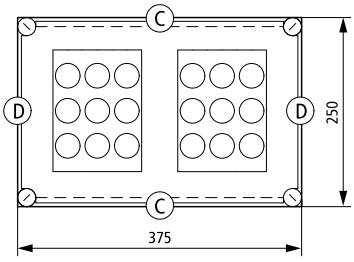
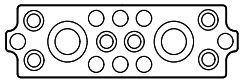
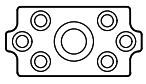
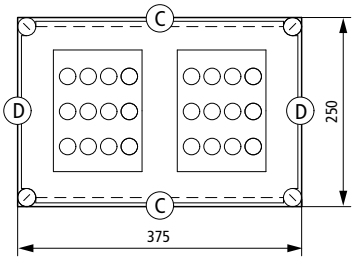
Notes

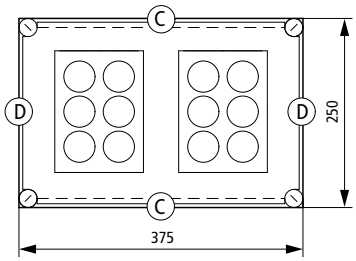
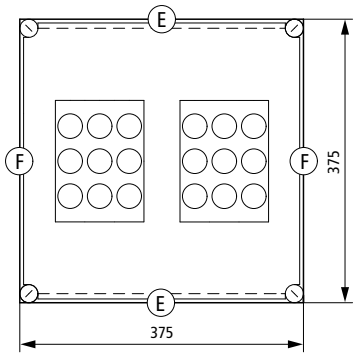
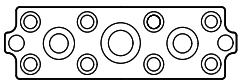
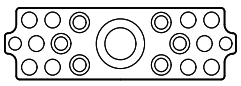
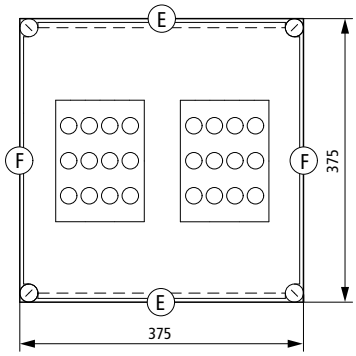
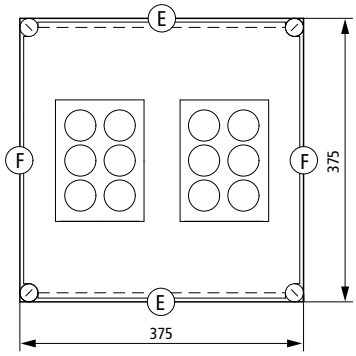
1)

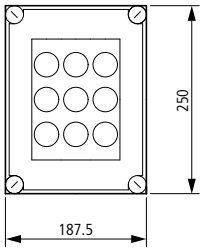
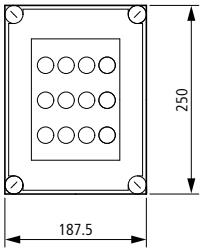
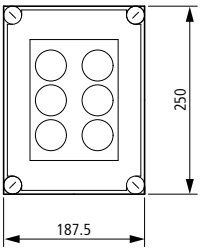


2)



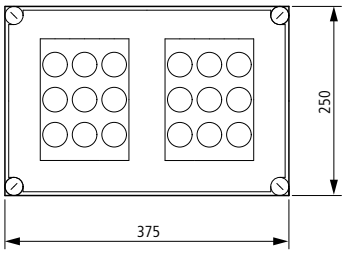
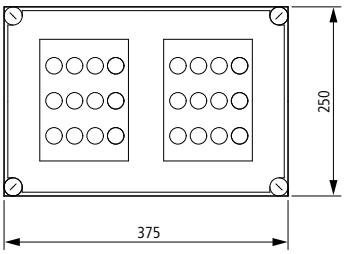
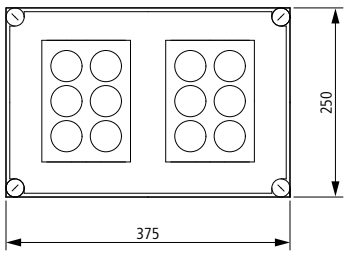
Dimensions	Rated operational current	Rated operating voltage	Max. fuse-link	Fused circuits	PE and N terminals Number x Cross-section	**Part no.** Article no.	**Price** See price list	Std. pack	**Notes**
	I_e	U_e							
mm	A	V AC	A	Number	mm²				
Individual fuse enclosures (RS...E: cover without opening, RS...T: cover with door)									
• Metric cable entry knockouts in all sides • Protection type IP65 • With 3-pole busbar mounting fuse base on busbars, replaceable from front • Transparent cover with quick-release fasteners • PE/N bars, protective shroud with inscription label • Fixing straps for wall fixing • Cover fasteners can be sealed, enclosure depth 150 mm									
	25	500	25, DII/ E27	9 x 1-pole 3 x 3 pole	On each 2 x (6 - 35) On each 9 x (1 - 6)	**RS27/ I23E** 013156		1 off	**A**  1 x M32/20 6 x M20 2 x M16
			25, DII/ E27	9 x 1-pole 3 x 3 pole	On each 2 x (6 - 35) On each 9 x (1 - 6)	**RS27/ I23E/T** 015529			
	63	400	35, D02/ E18	6 x 1-pole 4 x 3 pole	On each 2 x (6 - 35) On each 6 x (4 - 25)	**RS18/ I23E** 020275			**B**  2 x M32/20 4 x M25/16 4 x M20 4 x M16
			35, D02/ E18	6 x 1-pole 4 x 3 pole	On each 2 x (6 - 35) On each 6 x (4 - 25)	**RS18/ I23E/T** 017902			
	63	690	35, DIII/ E33	2 x 3 pole	On each 2 x (6 - 35) On each 2 x (4 - 25)	**RS33/ I23E** 022648			
			35, DIII/ E33	2 x 3 pole	On each 2 x (6 - 35) On each 2 x (4 - 25)	**RS33/ I23E/T** 025021			
	25	500	25, DII/ E27	18 x 1-pole 6 x 3 pole	On each 2 x (6 - 35) On each 18 x (1 - 6)	**RS27/ I43E** 029767			**C**  2 x M50/20 6 x M25/16 8 x M20
			25, DII/ E27	18 x 1-pole 6 x 3 pole	On each 2 x (6 - 35) On each 18 x (1 - 6)	**RS27/ I43E/T** 027394			**D**  1 x M50/32 6 x M25/16
	63	400	35, D02/ E18	12 x 1-pole 8 x 3 pole	On each 2 x (6 - 35) On each 12 x (4 - 25)	**RS18/ I43E** 032140			
			35, D02/ E18	12 x 1-pole 8 x 3 pole	On each 2 x (6 - 35) On each 12 x (4 - 25)	**RS18/ I43E/T** 034513			

Dimensions	Rated operational current I_e	Rated operating voltage U_e	Max. fuse-link	Fused circuits	PE and N terminals Number x Cross-section	**Part no.** Article no.	**Price** See price list	Std. pack	**Notes**
mm	A	V AC	A	Number	mm²				
Individual fuse enclosures (RS...E: cover without opening, RS...T: cover with door)									
	63	690	35, DIII/ E33	4 x 3 pole	On each 2 x (6 - 35) On each 4 x (4 - 25)	**RS33/ I43E** 039259		1 off	
			35, DIII/ E33	4 x 3 pole	On each 2 x (6 - 35) On each 4 x (4 - 25)	**RS33/ I43E/T** 036886			
	25	500	25, DII/ E27	18 x 1-pole 6 x 3 pole	On each 2 x (6 - 35) On each 18 x (1 - 6)	**RS27/ I44E** 001884			**E**  1 x M50/32 2 x M40/25 8 x M25/16 2 x M20
			25, DII/ E27	18 x 1-pole 6 x 3 pole	On each 2 x (6 - 35) On each 18 x (1 - 6)	**RS27/ I44E/T** 001885			**F**  1 x M63/40 6 x M25/16 10 x M20 2 x M16
	63	400	63, D02/ E18	12 x 1-pole 8 x 3 pole	On each 2 x (6 - 35) On each 12 x (4 - 25)	**RS18/ I44E** 001886			---PE/N bars
			63, D02/ E18	12 x 1-pole 8 x 3 pole	On each 2 x (6 - 35) On each 12 x (4 - 25)	**RS18/ I44E/T** 001887			Accessories for fuse enclosures → Page 20/46
	63	690	63, DIII/ E33	4 x 3 pole	On each 2 x (6 - 35) On each 12 x (4 - 25)	**RS33/ I44E** 001888			Fuses, fuse adapters and screw-on caps → Chapter 19: Circuit-breakers, fuses
			63, DIII/ E33	4 x 3 pole	On each 2 x (6 - 35) On each 12 x (4 - 25)	**RS33/ I44E/T** 001889			
Accessories									
Set of connecting links For connection of the busbars for RS…/I23, RS…/I43, RS…/I44E, 250 A for L1, L2, L3. Each set contains 3 links									
	250	–	–	–	–	**VBS-RS** 002307		5 off	

Dimensions	Enclosure depth	Rated operational current I_e	Rated operating voltage U_e	Max. fuse-link	Fused circuits	**Part no.** Article no.	**Price** See price list	Std. pack
mm	mm	A	V AC	A	Number			
Panel enclosures for fuses								
• Sides closed, but with full area knockout, open top and bottom • Protection type IP65 • With 3-pole busbar mounting fuse base on busbars, replaceable from front • Transparent cover with quick-release fasteners • Protective shroud with inscription label • Sealable cover fasteners								
	150	25	500	25 A DII/E27	9 x 1-pole 3 x 3 pole	**RS27/I23-125** 074056		1 off
	175	25	500	25 A DII/E27	9 x 1-pole 3 x 3 pole	**RS27/I23-150** 005240		
	150	63	400	35 A D02/E18	6 x 1-pole 4 x 3 pole	**RS18/I23-125** 081175		
	175	63	400	35 A D02/E18	6 x 1-pole 4 x 3 pole	**RS18/I23-150** 007613		
	150	63	690	35 A DIII/E33	2 x 3 pole	**RS33/I23-125** 083548		
	175	63	690	35 A DIII/E33	2 x 3 pole	**RS33/I23-150** 014732		

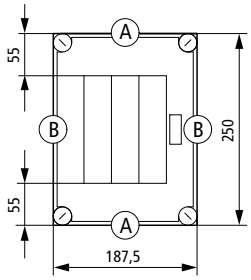
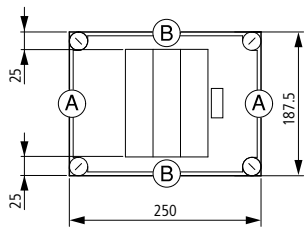
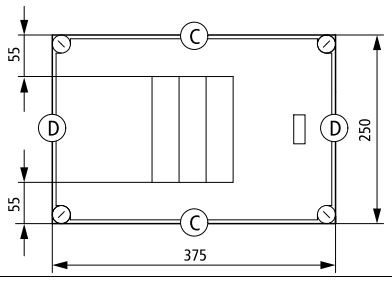
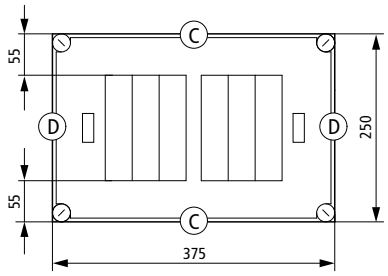
Notes

Accessories for fuse enclosures → Page 20/46
Fuses, fuse adapters and screw-on cap
→ Chapter 19: Circuit-breakers, fuses

Dimensions	Enclosure depth	Rated operational current	Rated operating voltage	Max. fuse-link	Fused circuits	**Part no.** Article no.	**Price** See price list	Std. pack
		I_e	U_e					
mm	mm	A	V AC	A	Number			
Panel enclosures for fuses								
	150	25	500	25 A DII/E27	18 x 1-pole 6 x 3 pole	**RS27/I43-125** 090667		1 off
	225	25	500	25 A DII/E27	18 x 1-pole 6 x 3 pole	**RS27/I43-200** 024224		
	150	63	400	35 A D02/E18	12 x 1-pole 8 x 3 pole	**RS18/I43-125** 093040		
	225	63	400	35 A D02/E18	12 x 1-pole 8 x 3 pole	**RS18/I43-200** 026597		
	150	63	690	35 A DIII/E33	4 x 3 pole	**RS33/I43-125** 097786		
	225	63	690	35 A DIII/E33	4 x 3 pole	**RS33/I43-200** 033716		
Accessories								
Set of connecting links For connection of the busbars for RS…/I23, RS…/I43, RS…/I44E, 250 A for L1, L2, L3. Each set contains 3 links								
–	–	250	–	–	–	**VBS-RS** 002307		5 off

Notes

Accessories for fuse enclosures → Page 20/46
Fuses, fuse adapters and screw-on cap
→ Chapter 19: Circuit-breakers, fuses

Dimensions mm	Rated operational current I_e A	Rated operational voltage U_e V AC	Fuse-link Sizes	5th terminal can be retrofitted (neutral conductor)	**Part no.** Article no.	**Price** See price list	Std. pack
Individual enclosures with LV h.b.c. fuse bases • Metric cable entry knockouts in all sides • Protection type IP65 • Transparent cover • Enclosure depth 150 mm • Terminal for connecting the 4th conductor (PEN) • Fuse base fitted to steel mounting plate • Fixing straps for wall fixing • Sealable cover fasteners							
	100	690	NH00	K50/1	**GS00/I23E** 027395		1 off
	100	690	NH00	K50/1	**GS00/I23E-G** 029768		1 off
	100	690	NH00	K50/1	**GS00/I43E** 032141		1 off
	160 100	500 690	NH00	K95/1N/BR	**GS00-160/I43E** 034514		1 off
	2 x 100	690	NH00	K50/1	**2GS00/I43E** 044006		1 off

Notes

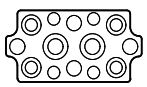
Fuse-links → Chapter 19: Circuit-breakers, fuses

A



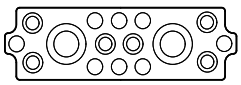
1 x M32/20
6 x M20
2 x M16

B



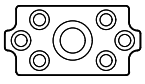
2 x M32/20
4 x M25/16
4 x M20
4 x M16

C

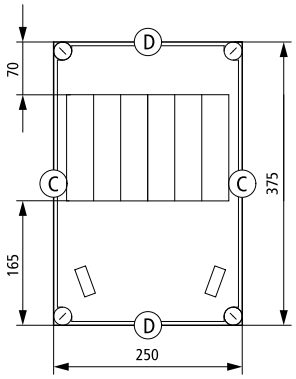
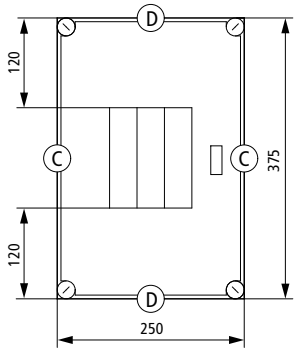


2 x M50/20
6 x M25/16
8 x M20

D



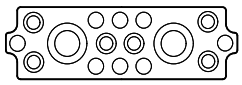
1 x M50/32
6 x M25/16

Dimensions mm	Rated operational current I_e A	Rated operational voltage U_e V AC	Fuse-link Sizes	5th terminal can be retrofitted (neutral conductor)	**Part no.** Article no.	**Price** See price list	Std. pack
Individual enclosures with LV h.b.c. fuse bases							
	2 x 100	690	NH00	K50/1	**2GS00/I43E-G** 041633		1 off
	100	690	NH00	K50/1	**GS00/I43E-G** 039260		1 off
	160 100	500 690	NH00	K95/1N/BR	**GS00-160/I43E-G** 036887		1 off

Notes

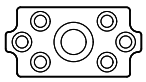
Fuse-links → Chapter 19: Circuit-breakers, fuses

C

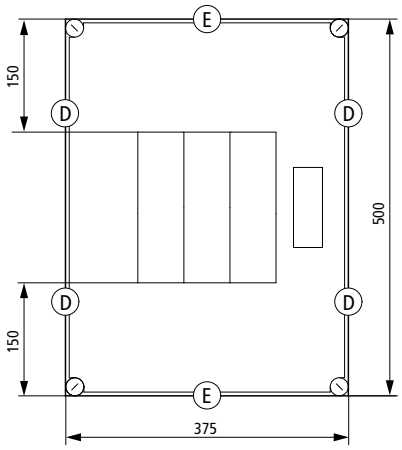
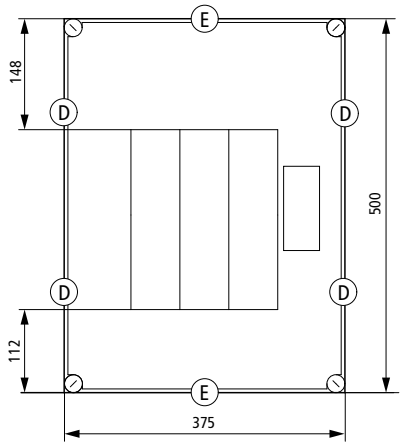
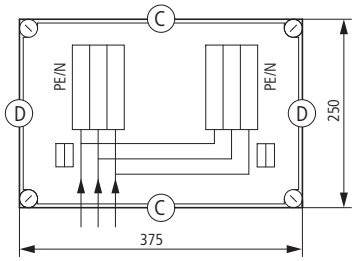


2 x M50/20
6 x M25/16
8 x M20

D



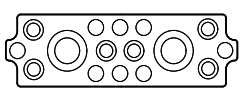
1 x M50/32
6 x M25/16

Dimensions mm	Rated operational current I_e A	Rated operational voltage U_e V AC	Fuse-link Sizes	5th terminal can be retrofitted (neutral conductor)	**Part no.** Article no.	**Price** See price list	Std. pack
Individual enclosures with LV h.b.c. fuse bases							
	250 200	500 690	NH1	K150/1	**GS1/I45E** 090148		1 off
	400 315	500 690	NH2	K240/1	**GS2/I45E** 090149		1 off
Two-way fuse box							
With parallel link between the incoming sides Incoming cable max. 35 mm² Max. fuse-link 63 A							
	2 x 100	690	NH00	–	**2GS00/I43E-V2K** 046379		1 off

Notes

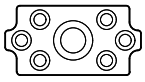
Fuse-links → Chapter 19: Circuit-breakers, fuses

C



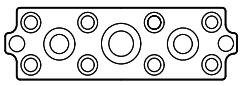
2 x M50/20
6 x M25/16
8 x M20

D

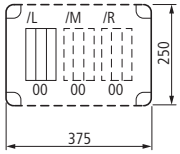
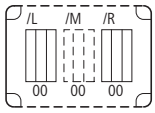
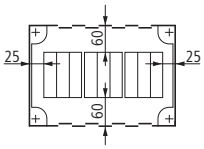
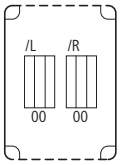
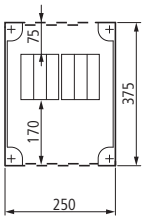


1 x M50/32
6 x M25/16

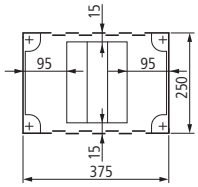
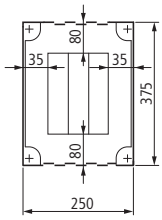
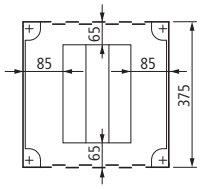
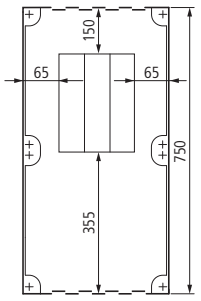
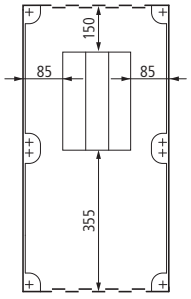
E



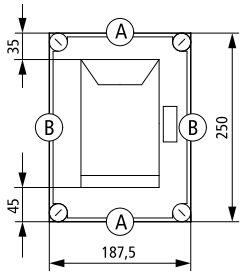
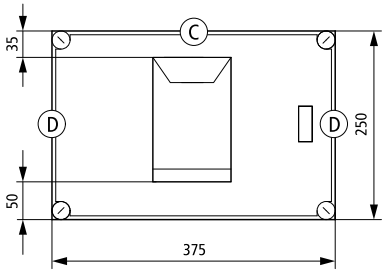
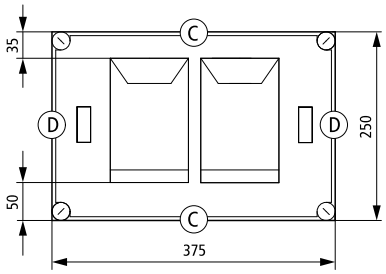
1 x M50/32
2 x M40/25
8 x M25/16
2 x M20

Dimensions mm	Fuse-link Sizes	Rated operational current I_e A	Rated operational voltage U_e V AC	**Part no.** Article no.	**Price** See price list	Std. pack	NH component Location	Basic enclosure Mounting system Basic unit W x H x D Other
Distribution board enclosures with LV h.b.c. fuse bases without PE/N terminals • Sides closed, but with full area knockout, open top and bottom • Transparent cover, cover fasteners can be sealed. • Protection type IP65 • Fuse base fitted to steel mounting plate • Mounting plate brought forward by 50 mm • Terminal for connecting the 4th conductor (PEN) • Stepped cable grommets → Page 20/29								
	NH00	100	690	**GS00/I43/L** 067740		1 off	Left	CI43-200 L3-CI43 GS00(-160) HS 50-CI
				GS00/I43/M 070113			Centre	
				GS00/I43/R 072486			Right	
		160	500	**GS00-160/I43/L** 086724			Left	
				GS00-160/I43/M 089097			Centre	
				GS00-160/I43/R 091470			Right	
	NH00	2 x 100	690	**2GS00/I43/L/R** 020281			Left Right	CI43-200 L3-CI43 GS00(-160) HS 50-CI
				2GS00/I43/L/M 022654			Left Centre	
				2GS00/I43/M/R 025027			Centre Right	
		2 x 160	500	**2GS00-160/I43/L/R** 010789			Left Right	
				2GS00-160/I43/L/M 013162			Left Centre	
				2GS00-160/I43/M/R 015535			Centre Right	
	NH00	3 x 100	690	**3GS00/I43** 029773			–	CI43-200 L3-CI43 GS00(-160) HS 50-CI
		3 x 160	500	**3GS00-160/I43** 017908			–	
		100	690	**GS00/I43-G/L** 074859			Left	CI43-200 (rotated 90°) L3-CI43 GS00(-160) HS 50-CI
		100	690	**GS00/I43-G/R** 077232			Right	
		160	500	**GS00-160/I43-G/L** 093843			Left	
		160	500	**GS00-160/I43-G/R** 096216			Right	
	NH00	2 x 100	690	**2GS00/I43-G** 027400			–	CI43-200 (rotated 90°) L3-CI43 GS00(-160) HS 50-CI
		2 x 160	500	**2GS00-160/I43-G** 098589			–	

Notes Fuse-links → Chapter 19: Circuit-breakers, fuses

Dimensions mm	Fuse-link Sizes	Rated operational current I_e A	Rated operational voltage U_e V AC	**Part no.** Article no.	**Price** See price list	Std. pack	Basic enclosure Mounting system Basic unit W x H x D Other
Distribution board enclosures with LV h.b.c. fuse bases without PE/N terminals							
• Sides closed, but with full area knockout, open top and bottom • Transparent cover, cover fasteners can be sealed. • Protection type IP65 • Fuse base fitted to steel mounting plate • Mounting plate brought forward by 50 mm • Terminal for connecting the 4th conductor (PEN) • Stepped cable grommets → Page 20/29							
	NH1	250 200	500 660 690	**GS1/I43** 034519		1 off	CI43-200 L3-CI43 GS1 HS 50-CI
	NH1	250 200	500 660 690	**GS1/I43-G** 036892			CI43-200 (rotated 90°) L3-CI43 GS1 HS 50-CI
	NH2	315 315	500 660 690	**GS2/I44** 039265			CI44-200 L3-CI43 GS2 HS 50-CI
	NH2	400 315	500 660 690	**GS2/I48** 041638			CI48-200 L3-CI43 GS2 HS 50-CI
	NH3	500 400	500 660 690	**GS3/I48** 044011			CI48-200 L3-CI43 GS3 HS 50-CI

Notes Fuse-links → Chapter 19: Circuit-breakers, fuses

Dimensions	Enclosure depth	Rated operational current	Rated operational voltage	Fuse-link	5th terminal can be retrofitted (neutral conductor)	**Part no.** Article no.	**Price** See price list	Std. pack
		I_e	U_e					
mm	mm	A	V AC	Sizes				
Individual enclosures with LV h.b.c. fuse switch-disconnector								
• Metric cable entry knockouts in all sides • Protection type IP65 • Transparent cover • Terminal for connecting the 4th conductor (PEN) • Fuse switch-disconnector fitted to steel mounting plate • Fixing straps for wall fixing • Sealable cover fasteners								
	150	100	690	NH00	K50/1	**GSTA00/I23E** 048752		1 off
	150	100	690	NH00	K50/1	**GSTA00/I43E** 051125		
	150	160 100	500 690	NH00	K95/1N/BR	**GSTA00-160/I43E** 053498		
	150	2 x 100	690	NH00	K50/1	**2GSTA00/I43E** 070109		

Notes

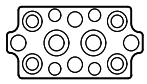
Fuse-links → Chapter 19: Circuit-breakers, fuses

A



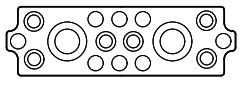
1 x M32/20
6 x M20
2 x M16

B



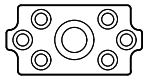
2 x M32/20
4 x M25/16
4 x M20
4 x M16

C



2 x M50/20
6 x M25/16
8 x M20

D

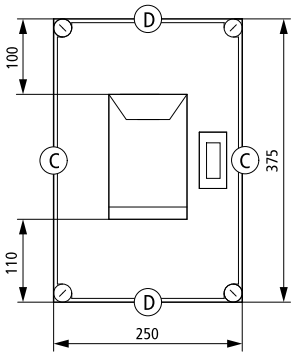
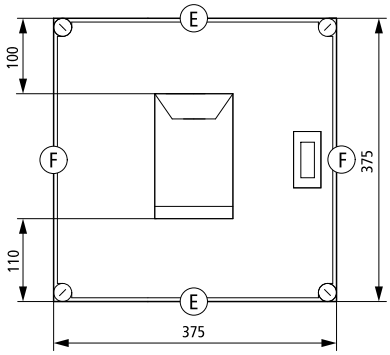
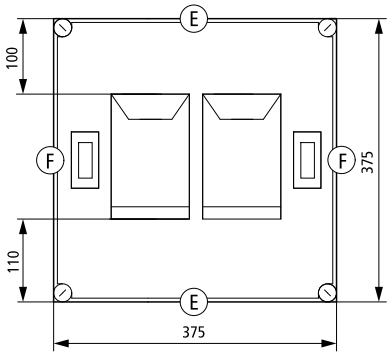


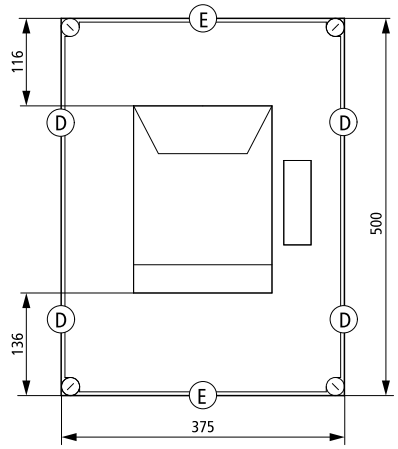
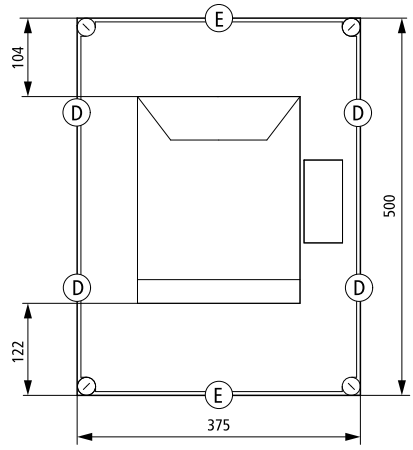
1 x M50/32
6 x M25/16

Individual enclosures with LV h.b.c. fuse switch-disconnectors

GSTA00/I..., 2GSTA00/I...

HPL20060EN

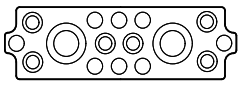
Dimensions	Enclosure depth	Rated operational current	Rated operational voltage	Fuse-link	5th terminal can be retrofitted (neutral conductor)	**Part no.** Article no.	**Price** See price list	Std. pack
		I_e	U_e					
mm	mm	A	V AC	Sizes				
Individual enclosures with LV h.b.c. fuse switch-disconnector								
• Metric cable entry knockouts in all sides • Protection type IP65 • Transparent cover • Terminal for connecting the 4th conductor (PEN) • Fuse switch-disconnector fitted to steel mounting plate • Fixing straps for wall fixing • Sealable cover fasteners								
	150	100	690	NH00	K50/1	**GSTA00/I43E-G** 058244		1 off
	150	160 100	500 690	NH00	K95/1N/BR	**GSTA00-160/I43E-G** 055871		
	150	100	690	NH00	K50/1	**GSTA00/I44E** 060617		
	150	160 100	500 690	NH00	K95/1N/BR	**GSTA00-160/I44E** 062990		
	150	2 x 100	690	NH00	K50/1	**2GSTA00/I44E** 067736		
	150	2 x 160 2 x 100	500 690	NH00	K95/1N/BR	**2GSTA00-160/I44E** 065363		

Dimensions	Enclosure depth	Rated operational current	Rated operational voltage	Fuse-link	5th terminal can be retrofitted (neutral conductor)	**Part no.** Article no.	**Price** See price list	Std. pack
		I_e	U_e					
mm	mm	A	V AC	Sizes				
Individual enclosures with LV h.b.c. fuse switch-disconnector								
	225	250 200	500 690	NH1	K150/1	**GSTA1/I45E** 090150		1 off
	225	400 315	500 690	NH2	K240/1	**GSTA2/I45E** 090151		1 off

Notes

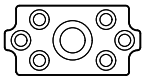
Fuse-links → Chapter 19: Circuit-breakers, fuses

C



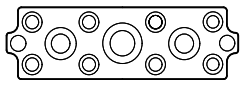
2 x M50/20
6 x M25/16
8 x M20

D



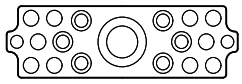
1 x M50/32
6 x M25/16

E



1 x M50/32
2 x M40/25
8 x M25/16
2 x M20

F

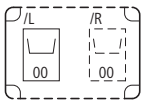
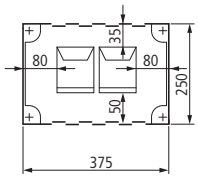
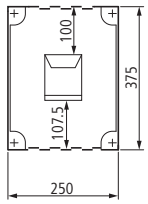
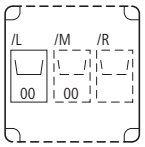
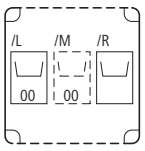
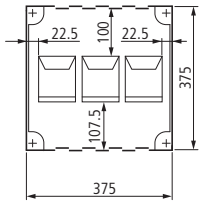


1 x M63/40
6 x M25/16
10 x M20
2 x M16

Distribution board enclosure with LV h.b.c. fuse switch-disconnector

GSTA00/I..., 2GSTA00/I..., 3GSTA00/I...

HPL20062EN

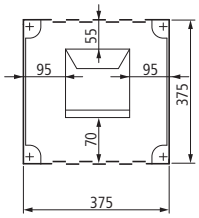
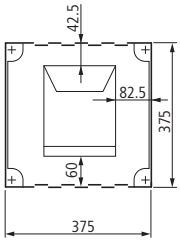
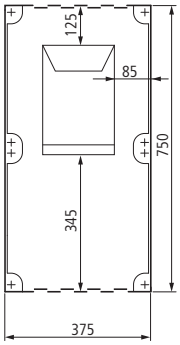
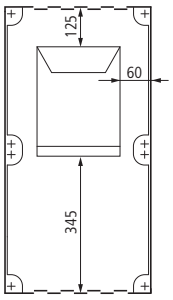
Dimensions mm	Fuse-link Sizes	Rated operational current I_e A	Rated operational voltage U_e V AC	**Part no.** Article no.	**Price** See price list	Std. pack	NH component Location	Basic enclosure Mounting system Basic unit W x H x D Other
Distribution board enclosures with LV h.b.c. fuse switch-disconnectors								
• Sides closed, but with full area knockout, open top and bottom • Transparent cover, cover fasteners can be sealed. • Protection type IP65 • Fuse base fitted to steel mounting plate • Mounting plate brought forward by 50 mm • Terminal for connecting the fourth conductor (PEN) • Stepped cable grommets → Page 20/29								
	NH00	100	660	**GSTA00/I43/L** 046384		1 off	Left	CI43-200 L3-CI43 GSTA00(-160) HS 50-CI
		100	690	**GSTA00/I43/R** 048757			Right	
		160	500	**GSTA00-160/I43/L** 034520			Left	
		160	500	**GSTA00-160/I43/R** 036893			Right	
	NH00	2 x 100	660	**2GSTA00/I43** 060622			Left Right	CI43-200 L3-CI43 GSTA00(-160) HS 50-CI
		2 x 160	500	**2GSTA00-160/I43** 053504			Left Right	
	NH00	100	660	**GSTA00/I43-G** 058249			Centre	CI43-200 (rotated 90°) L3-CI43 GSTA00(-160) HS 50-CI
		160	500	**GSTA00-160/I43-G** 055877			Centre	
	NH00	100	660	**GSTA00/I44/L** 051130			Left	CI44-200 L3-CI43 GSTA00(-160) HS 50-CI
				GSTA00/I44/M 053503			Centre	
				GSTA00/I44/R 055876			Right	
		160	500	**GSTA00-160/I44/L** 039266			Left	
				GSTA00-160/I44/M 041639			Centre	
				GSTA00-160/I44/R 044012			Right	
	NH00	2 x 100	660	**2GSTA00/I44/L/R** 062995			Left Right	CI44-200 L3-CI43 GSTA00(-160) HS 50-CI
				2GSTA00/I44/L/M 065368			Left Centre	
				2GSTA00/I44/M/R 067741			Centre Right	
		2 x 160	500	**2GSTA00-160/I44/L/R** 046385			Left Right	
				2GSTA00-160/I44/L/M 048758			Left Centre	
				2GSTA00-160/I44/M/R 051131			Centre Right	
	NH00	3 x 100	660	**3GSTA00/I44** 070114			Left Centre Right	CI44-200 L3-CI43 GSTA00(-160) HS 50-CI
	NH00	3 x 160	500	**3GSTA00-160/I44** 058250			Left Centre Right	

Notes Fuse-links → Chapter 19: Circuit-breakers, fuses

Distribution board enclosure with LV h.b.c. fuse switch-disconnector

HPL20063EN

GSTA...I...

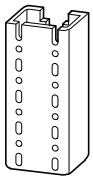
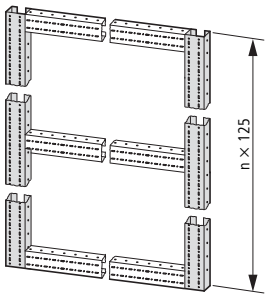
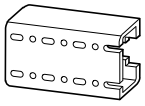
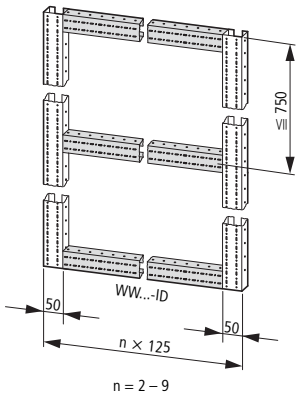
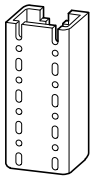
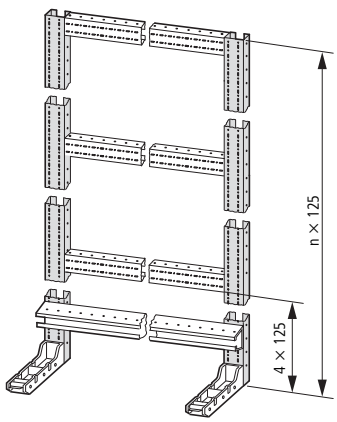
Dimensions mm	Fuse-link Sizes	Rated operational current I_e A	Rated operational voltage U_e V AC	**Part no.** Article no.	**Price** See price list	Std. pack	Basic enclosure Mounting system Basic unit W x H x D Other
Distribution board enclosures with LV h.b.c. fuse switch-disconnectors							
	NH1	250 200	500 660 690	**GSTA1/I44** 013163		1 off	CI44-200 L3-CI43 GSTA1 HS 50-CI
	NH2	315 315	500 660 690	**GSTA2/I44** 015536			CI44-200 L3-CI43 GSTA2 HS 50-CI
	NH2	400 315	500 660 690	**GSTA2/I48** 017909			CI48-200 L3-CI43 GSTA2 HS 50-CI
	NH3	500 400	500 660 690	**GSTA3/I48** 020282			CI48-200 L3-CI43 GSTA3 HS 50-CI

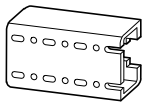
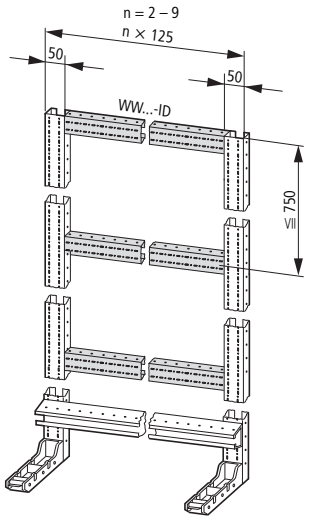
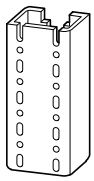
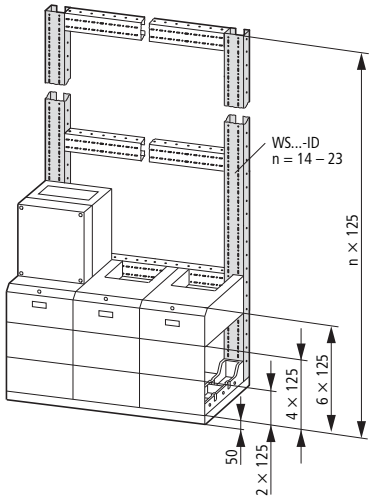
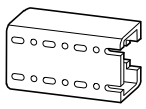
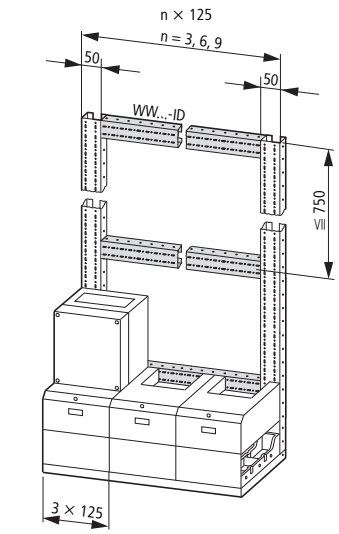
Notes Fuse-links → Chapter 19: Circuit-breakers, fuses

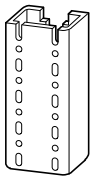
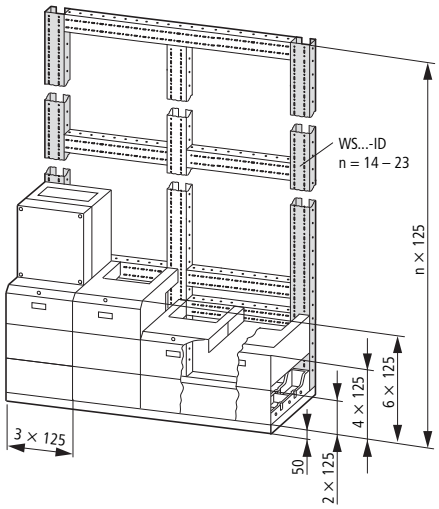
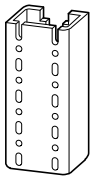
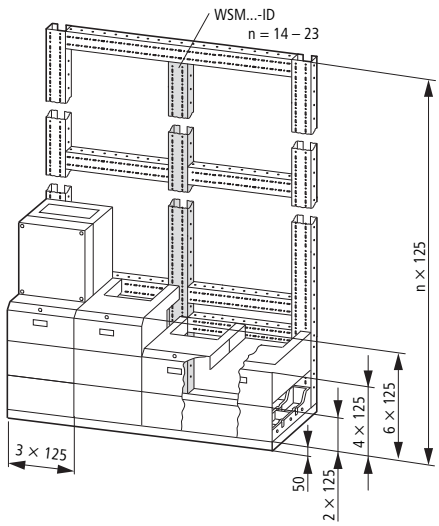
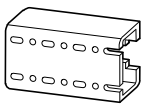
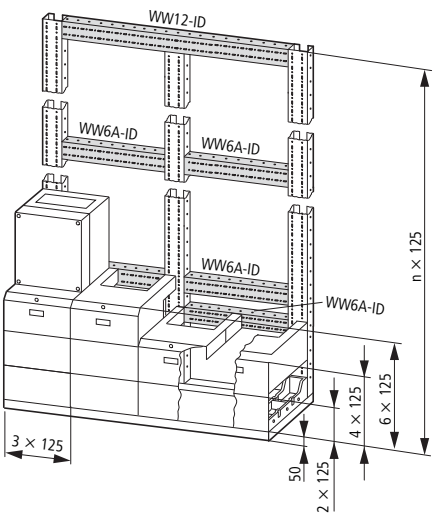
Mounting frames

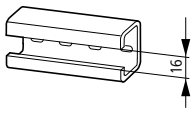
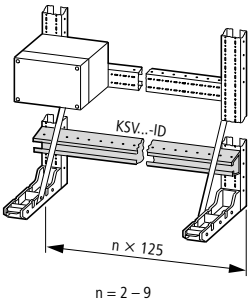
WS...-ID, WW...-ID

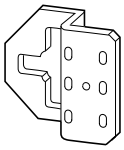
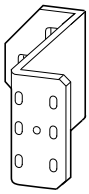
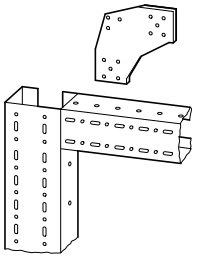
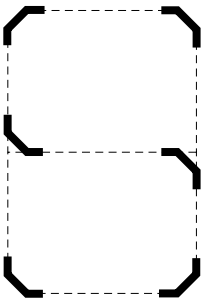
HPL20064EN

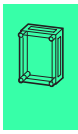
	125 mm grid spacing Quantity	Length mm	For use with	**Part no.** Article no.	**Price** See price list	Std. pack
Section for mounting frames						
• Galvanized C sections • Order fixing screws separately						
For wall-mounting distribution system						
Vertical section (outside)						
	6 x 125	750		**WS6-ID** 098594		1 off
	7 x 125	875		**WS7-ID** 010794		1 off
	8 x 125	1000		**WS8-ID** 013167		1 off
	9 x 125	1125		**WS9-ID** 015540		1 off
	10 x 125	1250		**WS10-ID** 017913		1 off
	11 x 125	1375		**WS11-ID** 020286		1 off
	12 x 125	1500		**WS12-ID** 022659		5 off
	13 x 125	1625		**WS13-ID** 025032		1 off
	14 x 125	1750		**WS14-ID** 027405		1 off
	15 x 125	1875		**WS15-ID** 029778		1 off
Horizontal profiles						
	2 x 125	150		**WW2-ID** 041643		5 off
	3 x 125	275		**WW3-ID** 044016		5 off
	4 x 125	400		**WW4-ID** 046389		5 off
	5 x 125	525		**WW5-ID** 048762		5 off
	6 x 125	650		**WW6-ID** 051135		1 off
	7 x 125	775		**WW7-ID** 053508		5 off
	8 x 125	900		**WW8-ID** 055881		1 off
	9 x 125	1025		**WW9-ID** 058254		1 off
For wall-mounting distribution system supported on the floor						
Vertical section (outside)						
	10 x 125	1250		**WS10-ID** 017913		1 off
	11 x 125	1375		**WS11-ID** 020286		1 off
	12 x 125	1500		**WS12-ID** 022659		5 off
	13 x 125	1625		**WS13-ID** 025032		1 off
	14 x 125	1750		**WS14-ID** 027405		1 off
	15 x 125	1875		**WS15-ID** 029778		1 off
	16 x 125	2000		**WS16-ID** 032151		1 off
	17 x 125	2125		**WS17-ID** 034524		1 off
	18 x 125	2250		**WS18-ID** 036897		1 off
	19 x 125	2375		**WS19-ID** 039270		1 off

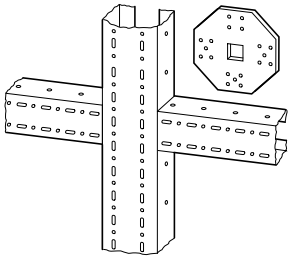
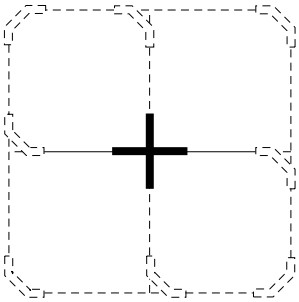
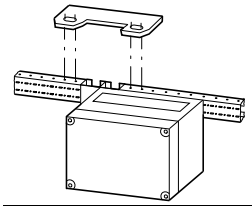
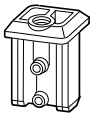
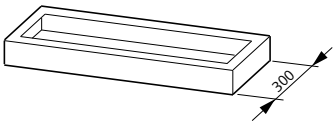
	125 mm grid spacing Quantity	Length mm	For use with	**Part no.** Article no.	**Price** See price list	Std. pack
Section for mounting frames						
• Galvanized C sections • Order fixing screws separately						
Horizontal profiles						
	2 x 125	150		**WW2-ID** 041643		5 off
	3 x 125	275		**WW3-ID** 044016		5 off
	4 x 125	400		**WW4-ID** 046389		5 off
	5 x 125	525		**WW5-ID** 048762		5 off
	6 x 125	650		**WW6-ID** 051135		1 off
	7 x 125	775		**WW7-ID** 053508		5 off
	8 x 125	900		**WW8-ID** 055881		1 off
	9 x 125	1025		**WW9-ID** 058254		1 off
For floor-standing distribution boards, 3 panels wide						
Vertical section (outside)						
	14 x 125	1750		**WS14-ID** 027405		1 off
	15 x 125	1875		**WS15-ID** 029778		1 off
	16 x 125	2000		**WS16-ID** 032151		1 off
	17 x 125	2125		**WS17-ID** 034524		1 off
	18 x 125	2250		**WS18-ID** 036897		1 off
	19 x 125	2375		**WS19-ID** 039270		1 off
	20 x 125	2500		**WS20-ID** 034525		1 off
	21 x 125	2625		**WS21-ID** 036898		5 off
	22 x 125	2750		**WS22-ID** 039271		5 off
	23 x 125	2875		**WS23-ID** 041644		1 off
Horizontal profiles						
	3 x 125	275		**WW3-ID** 044016		5 off
	6 x 125	650		**WW6-ID** 051135		1 off
	9 x 125	1025		**WW9-ID** 058254		1 off

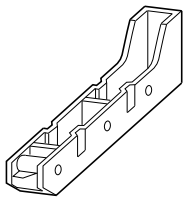
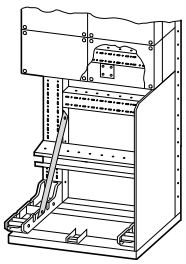
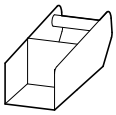
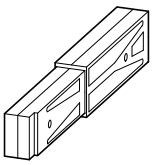
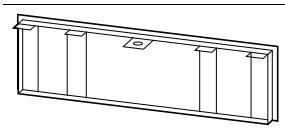
	125 mm grid spacing Quantity	Length mm	For use with	**Part no.** Article no.	**Price** See price list	Std. pack
Section for mounting frames						
• Galvanized C sections • Order fixing screws separately						
For floor-standing distribution boards, 4 panels wide						
Vertical section (outside)						
	14 x 125	1750		**WS14-ID** 027405		1 off
	15 x 125	1875		**WS15-ID** 029778		1 off
	16 x 125	2000		**WS16-ID** 032151		1 off
	17 x 125	2125		**WS17-ID** 034524		1 off
	18 x 125	2250		**WS18-ID** 036897		1 off
	19 x 125	2375		**WS19-ID** 039270		1 off
	20 x 125	2500		**WS20-ID** 034525		1 off
	21 x 125	2625		**WS21-ID** 036898		5 off
	22 x 125	2750		**WS22-ID** 039271		5 off
	23 x 125	2875		**WS23-ID** 041644		1 off
Vertical section (centre)						
	14 x 125	1700		**WSM14-ID** 044017		5 off
	15 x 125	1825		**WSM15-ID** 046390		5 off
	16 x 125	1950		**WSM16-ID** 048763		5 off
	17 x 125	2075		**WSM17-ID** 051136		5 off
	18 x 125	2200		**WSM18-ID** 053509		5 off
	19 x 125	2325		**WSM19-ID** 055882		5 off
	20 x 125	2450		**WSM20-ID** 058255		5 off
	21 x 125	2575		**WSM21-ID** 060628		5 off
	22 x 125	2700		**WSM22-ID** 063001		5 off
	23 x 125	2825		**WSM23-ID** 065374		5 off
Horizontal profiles						
	6 x 125	675		**WW6A-ID** 067747		1 off
	12 x 125	1400		**WW12-ID** 070120		1 off

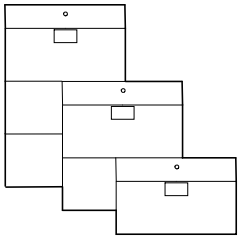
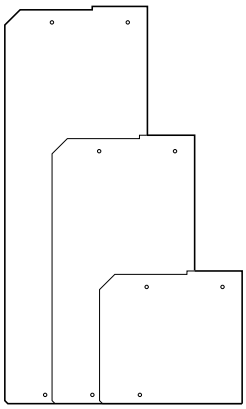
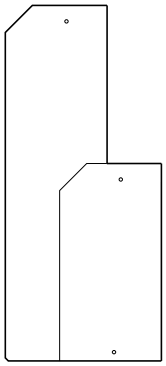
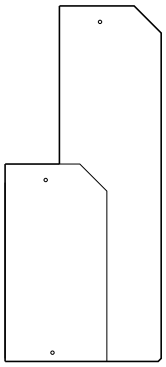
	125 mm grid spacing Quantity	Length mm	For use with	Part no. Article no.	Price See price list	Std. pack
Cable anchoring rails						
For T-slot cleats						
	2 x 125	250	 n = 2 – 9	**KSV2-ID** 060627		1 off
	3 x 125	375		**KSV3-ID** 063000		1 off
	4 x 125	500		**KSV4-ID** 065373		1 off
	5 x 125	625		**KSV5-ID** 067746		1 off
	6 x 125	750		**KSV6-ID** 070119		5 off
	7 x 125	875		**KSV7-ID** 072492		1 off
	8 x 125	1000		**KSV8-ID** 074865		1 off
	9 x 125	1125		**KSV9-ID** 077238		5 off

	For use with	Part no. Article no.	Price See price list	Std. pack
Wall fixing bracket				
• Including fixing material • For wall-mounting distribution system				
	To secure the mounting frame at a distance of 12 mm from the wall	**WBW12-ID** 001925		4 off
	To secure the mounting frame at a distance of 25 mm from the wall Floor-standing distribution board top mount	**WBW25-ID** 081983		10 off
	To secure the mounting frame at a distance of 100 mm from the wall Floor-standing distribution board top mount	**WBW100-ID** 084356		10 off
Corner plate for wall-mounting and floor-standing distribution boards				
• For the connection of horizontal and vertical sections • Including fixing material				
		**EVB-ID** 002299		10 off



	For use with	For use with	**Part no.** Article no.	**Price** See price list	Std. pack
Cross plates for wall-mounting and floor-standing distribution boards					
• For the connection of horizontal and vertical sections • Including fixing material					
	–		**KVB-ID** 002300		10 off
Assembly bracket					
• For the connection of distribution boards and for transport units • Including fixing material					
	Wall-mounting distribution board top and bottom on WW... section Wall-mounting distribution board 2 off, floor-standing distribution board 1 off		**ARB-ID** 002302		10 off
	For enclosure assembly at transport splits	–	**VS-TR-CI** 002330		25 off
Lifting eye fixing					
For securing TOR-GG eyebolts, M12 thread					
	Wall-mounting distribution boards, floor-standing distribution boards Mounting in WS... vertical profiles	–	**TOB-ID** 093848		10 off
Lifting eyes kit					
For lift eye fix, M12 thread					
	Wall-mounting distribution boards, floor-standing distribution boards For fixing using TOB-ID to the vertical sections One set consists of 4 lifting eyes	–	**TOR-GG** 048276		1 off
Fixing screw					
For securing CI enclosures to the sections					
	For securing CI enclosures to wall fixing brackets W... and to profiles WS..., WW...	–	**LT284-M6X20-C** 050325		100 off
Plinths					
For mounting floor-standing distribution boards					
	Width 375 mm	–	**SS5-ID0375** 079611		1 off
	Width 750 mm	–	**SS5-ID0750** 081984		1 off
	Width 1125 mm	–	**SS5-ID1125** 084357		1 off
	Width 1500 mm	–	**SS5-ID1500** 086730		1 off
Spray can for CI enclosure covers					
For painting covers, color RAL 7032 Contents 400 ml/300 g		–	**SP-CI-RAL7032** 005741		1 off

	For use with	Part no. Article no.	Price See price list	Std. pack
Foot				
For fixing to the floor				
	Left and right on base SS5-ID (on SS5-ID1500 also in middle)	**FHF-ID** 089103		2 off
Support struts				
For floor-standing distribution boards to support the vertical section on the floor				
	For plinth height 50 cm	**STR50-ID** 072493		1 off
	For plinth height 75 cm	**STR75-ID** 074866		1 off
Strap				
For the connection of distribution boards (and with transport splits)				
	In the base, 1 off for base heights ≦ 50 cm 2 off for plinth heights 75 cm	**LPS-ID** 086731		5 off
Foot prop				
Supports for the front plate (bottom) • 1 off per section width				
	Between the externally fitted FHF-ID feet	**SLHF-ID** 091476		5 off
Support brackets				
Support bracket for the top plate • 2 off per section width				
	–	**HDP-ID** 093849		5 off
Support bracket				
Additional fixing for the HPD-ID holder				
	For SS5-ID0375: 0 off For SS5-ID0750: 1 off For SS5-ID1125: 2 off For SS5-ID1500: 2 off	**SWHDP-ID** 032152		5 off
Top plate				
• Simultaneous support for the front plate (top) • 1 off per section width				
	–	**DP-ID** 096222		5 off

	For use with	**Part no.** Article no.	**Price** See price list	Std. pack
Cable compartment cladding				
Front plates • For covering the plinth area (cabling area) • 1 off per section width				
	Height 750 mm	**FP75-ID** 013168		2 off
	Height 500 mm	**FP50-ID** 010795		4 off
	Height 250 mm	**FP25-ID** 098595		4 off
Enclosure side plates • Cover for external sides • Can be fitted to left or right				
	Height 750 mm	**SWRL75-ID** 020287		1 off
	Height 500 mm	**SWRL50-ID** 017914		1 off
	Height 250 mm	**SWRL25-ID** 015541		1 off
Intermediate plates • For cover between base of different heights				
Right side				
	Between plinth heights 750 mm - 250 mm	**ZPR50-ID** 022660		1 off
	Between plinth heights of 750 mm - 500 mm or 500 mm - 230 mm	**ZPR25-ID** 025033		1 off
Left side				
	Between plinth heights 750 mm - 250 mm	**ZPL50-ID** 029779		1 off
	Between plinth heights of 750 mm - 500 mm or 500 mm - 230 mm	**ZPL25-ID** 027406		1 off

Engineering

Enclosure size selection

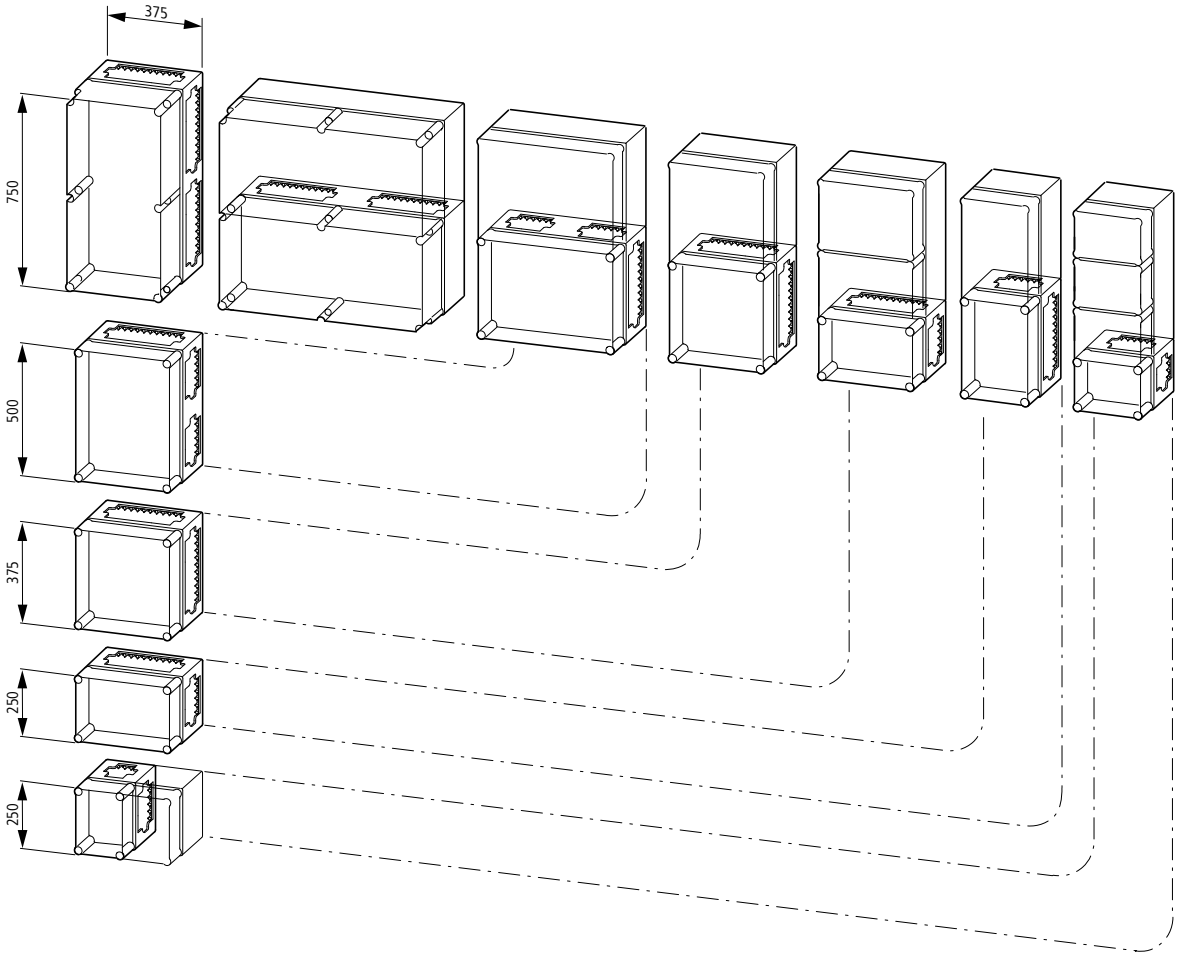
Enclosure measurements

Width:
187.5 mm
375 mm

Height:
250 mm
375 mm
500 mm
750 mm

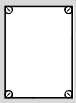
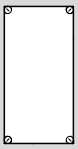
Suitable for distribution board systems with section widths in 375 mm grid. Rotation of enclosure by 90° allows section widths in 250 mm grid.

With various cover depths, four standardized mounting depths can be implemented in a 25 mm grid (upper edge of mounting plate to lower edge of cover):
125 mm
150 mm
200 mm
250 mm



Mounting of switchgear in distribution board enclosures

To install LV h.b.c. fuse bases, switch-disconnectors and circuit-breakers, pre-drilled mounting plates are available. In some cases, additional spacers HS50-CI are required.
The following table gives the largest number of devices that can be installed.
PE and N terminals for the distribution board enclosures have not been included.

Device	Rated operational current	Max. no. of devices installable in distribution board combinations						Pre-drilled mounting plate or mounting plate	Spacer
									
		CI43(E)-200	CI43(E)-200 (rotated by 90°)	CI44(E)-200	CI45(E)-200	CI48(E)-200	CI48(E)-250		
	A	Number	Number	Number	Number	Number	Number		
LV h.b.c. fuse bases									
GS00-160	100, 160	3	2	3	3			L3-CI43	HS50-CI
GS1	250	1	1	1	1			L3-CI43	HS50-CI
GS2	400	-	-	1	1	1		L3-CI43	HS50-CI
GS3	500	-	-	-	1	1		L3-CI43	HS50-CI
LV h.b.c. fuse switch-disconnectors									
GSTA00-160	100, 160	2	1	3	3			L3-CI43	HS50-CI
GSTA1	250	-	-	1	1			L3-CI43	HS50-CI
GSTA2	400	-	-	1	1	1		L3-CI43	HS50-CI
GSTA3	500	-	-	-	1	1		L3-CI43	HS50-CI
Switch-disconnectors, circuit-breakers[1)]									
NZM1	160	2	1	2	2			M3-CI...	-
NZM2	250	1	1	2	2			M3-CI...	-
NZM3	630	-	-	-	1	1	1	M3-CI...	-
NZM4	1600	-	-	-	-	-	1	M3-CI...	-

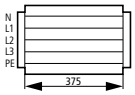
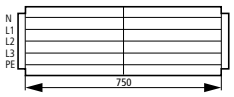
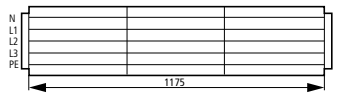
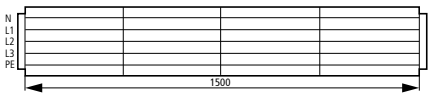
Notes [1)] Switches and accessories → Chapter 17: Compact circuit-breakers NZM, compact switch-disconnectors N up to 1600 A

Overview of busbar systems up to 1600 A (CI…, RS…, SKA…)

Rated operational current I_e	Busbar cross-section		**Busbar center-to-center distance**	**Surface-mounting devices**		
A	L1, L2, L3 mm	PE, N, PEN mm	mm	**RS..3-50**	**GST…00**	**GSTA…**
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	-	-	-	-
1600	3 x 40 x 10	2 x 20x15	-	-	-	-

- 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
- 25 A to 400 A fuses for mounting on busbar system up to 630 A
- Tinned copper busbars from 160 A to 630 A

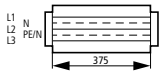
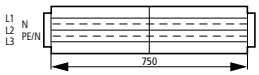
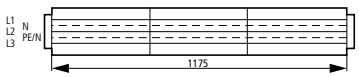
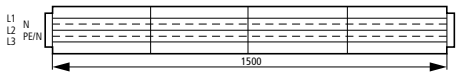
Selection diagrams up to 630 A
up to 5-pole (with or without fitted components)
(CI…, SKA…)

Busbar system in CI enclosure: Assembled from individual components for 1 up to 4 CI enclosures	Rated operational current A	**Part no.**						
		CI44-200	**SH0635/4**	**CU20X5**[1]	**CU20X10**[1]	**CU20X15**[1)2)]	**FL4-X**	**BS4-CI**
	250	1	2	1.875	-	-	2	-
	400	1	2	0.75	1.125	-	2	-
	630	1	2	-	0.75	1.125	2	-
	250	2	3	3.75	-	-	2	1
	400	2	3	1.50	2.25	-	2	1
	630	2	3	-	1.50	2.25	2	1
	250	3	4	5.625	-	-	2	2
	400	3	4	2.25	3.375	-	2	2
	630	3	4	-	2.25	3.375	2	2
	250	4	5	7.50	-	-	2	3
	400	4	5	3.00	4.50	-	2	3
	630	4	5	-	3.00	4.50	2	3

Notes

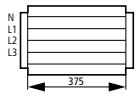
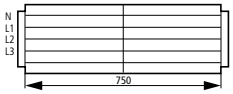
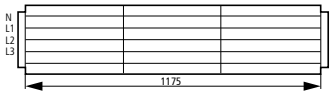
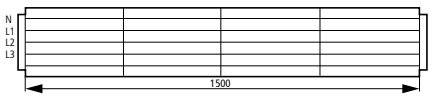
[1)] In meters; applies for 5-pole system
[2)] Assemble from CU20X10 and CU20X5

3-pole with fitted components
(5-pole without fitted components possible)
630 A-system max. 3 pole
(CI…, SKA…)

Busbar system in CI enclosure: Assembled from individual components for 1 up to 4 CI enclosures	Rated operational current A	Part no. CI43-200	SH0635/3	CU20X5[1]	CU20X10[1]	CU20X15[1][2]	FL4-X	BS4-CI
	250	1	2	1.875	-	-	2	-
	400	1	2	0.75	1.125	-	2	-
	630	1	2	-	-	1.125	2	-
	250	2	3	3.75	-	-	2	1
	400	2	3	1.50	2.25	-	2	1
	630	2	3	-	-	2.25	2	1
	250	3	4	5.625	-	-	2	2
	400	3	4	2.25	3.375	-	2	2
	630	3	4	-	-	3.375	2	2
	250	4	5	7.50	-	-	2	3
	400	4	5	3.00	4.50	-	2	3
	630	4	5	-	-	4.50	2	3

Notes
[1] In meters; applies for 5-pole system
[2] Assemble from CU20X10 and CU20X5 → 630 A system 3-pole only

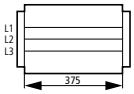
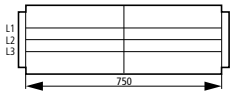
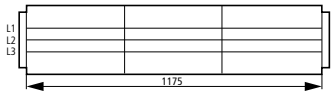
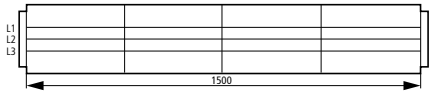
Selection diagrams up to 1000 A
up to 5 pole (CI…, SKA…)

Busbar system in CI enclosure: Assembled from individual components for 1 up to 4 CI enclosures	Rated operational current A	Part no. CI44-200	SH1005/4	CU30X10[1]	FL4-X	BS4-CI[1]
	1000	1	2	3.00	2	-
	1000	2	3	6.00	2	1
	1000	3	4	9.00	2	2
	1000	4	5	12.00	2	3

Notes
[1] In meters; applies for 5-pole system

To achieve even current loading (and heating) of the individual busbars, they must be connected in parallel with busbar terminals at a maximum spacing of 375 mm. Incoming and outgoing terminals are parallel switching points.

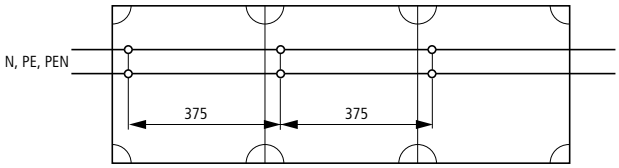
Selection diagrams up to 1600 A
3 pole

Busbar system in CI enclosure: Assembled from individual components for 1 up to 4 CI enclosures	Operating current A	Part no. CI44-200	SH1603/4	CU40X10[1)]	FL4-X	BS4-CI
	1600	1	2	3.375	2	-
	1600	2	3	6.75	2	1
	1600	3	4	10.125	2	2
	1600	4	5	13.50	2	3

Notes [1)] In meters; applies for 5-pole system

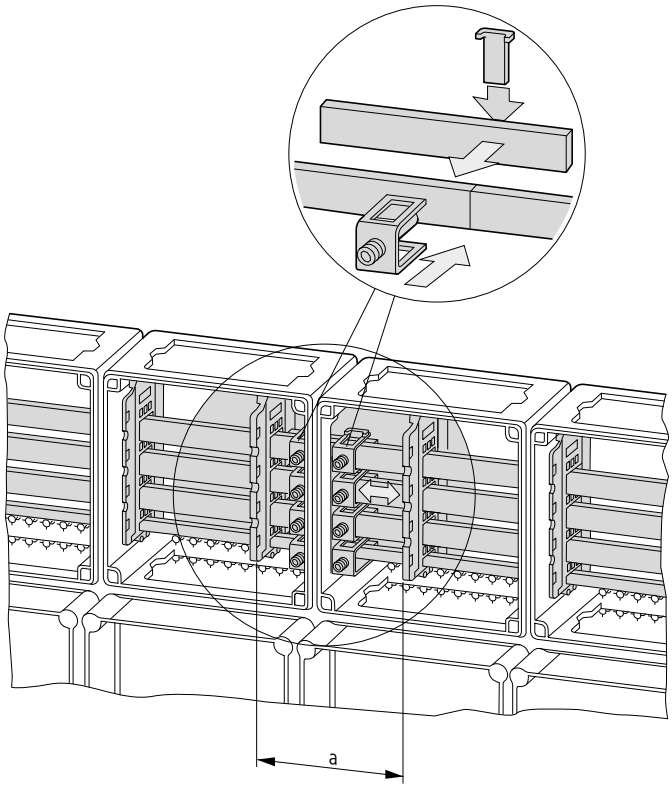
To achieve even current loading (and heating) of the individual busbars, they must be connected in parallel with busbar terminals at a maximum spacing of 375 mm. Incoming and outgoing terminals are parallel switching points.

N, PE, PEN at 1600 A
In the 1600 A busbar system, two CU20X15 are each used as N, PE and PEN conductor. For an even current load, connect the busbars in parallel with a spacing of no more than 375 mm.



Transport split, busbar connection
With transport splits the busbar supports are offset from the knockouts to the enclosure inner and secured with an additional holder.
This reduces the mounting area for components fitted on the busbars by distance 'a' between the busbar supports.

In end enclosures, transport splits should always be fitted to facilitate subsequent expansion.

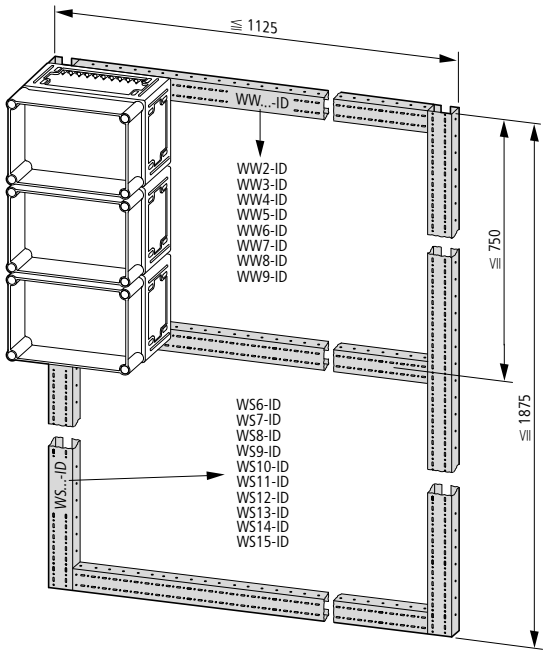


Clearance between busbar supports with transport split, busbar coupling kits

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

For fitting a busbar support outside the knockouts, 2 × HSH-CI or 2 × HSH0632 are required. Exception: For SH0632 only 1 × HSH0632 is required.

Wall-mounted distributor



Profiles are selected in a 125 mm grid according to enclosure widths or heights.

Vertical sections:

WS…-ID

Number of 125 mm "steps"
= 6, 7, 8, 9, 10, 11, 12, 13, 14, 15
Vertical **w**all profile

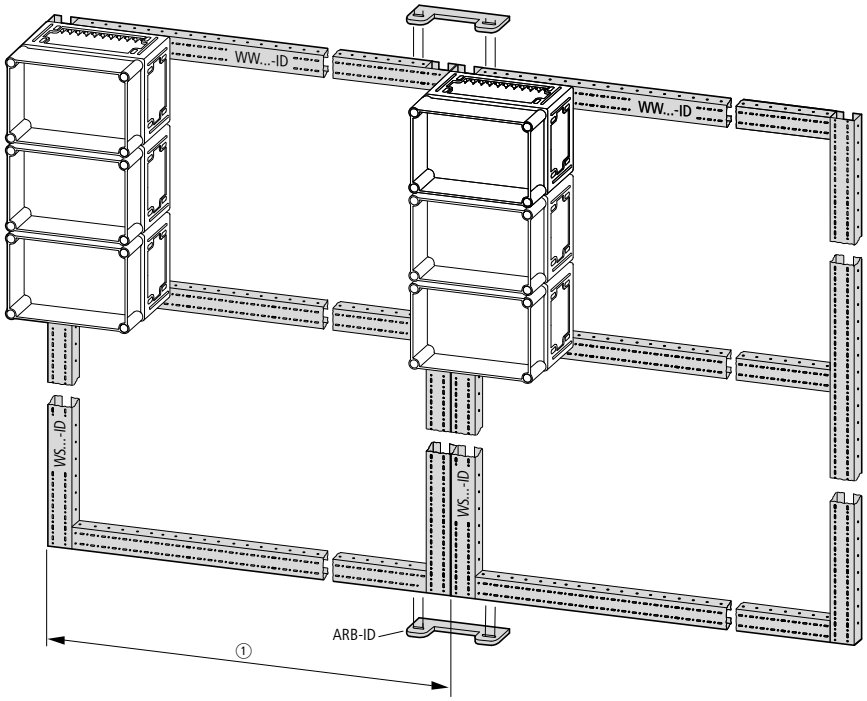
Horizontal section:

WW…-ID

Number of 125 mm "steps"
= 2, 3, 4, 5, 6, 7, 8, 9
Horizontal **w**all profile

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

The vertical profiles of the supporting frame are wall-mounted with two wall fixing brackets WBW…-ID each (order separately).



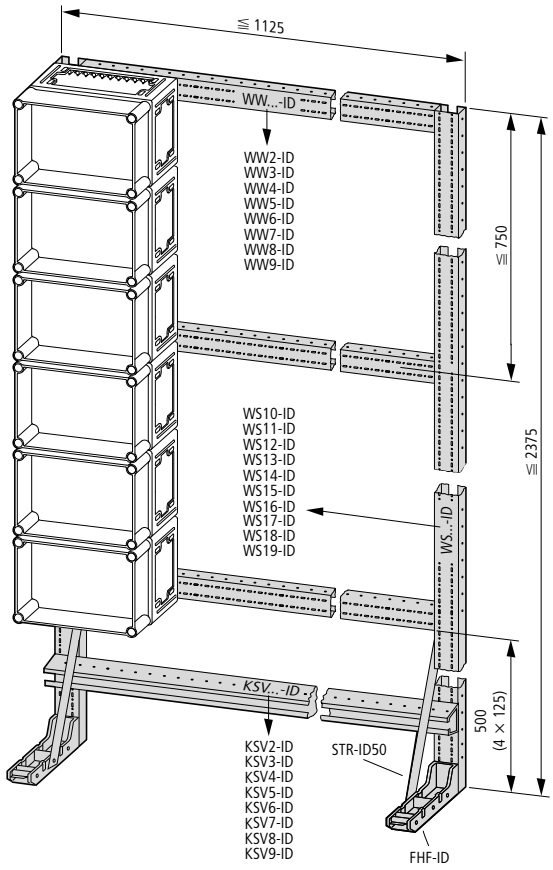
Where wall-mounted distribution boards wider than 1125 mm are required, these are split into several transportation units. The wall-mounted profiles are mechanically interconnected at the top or bottom with the help of an assembly bracket ARB-ID.

① Transport unit

Mounting frame selection

WW...-ID, WS...-ID

Wall-mounting distribution board, supported on the floor



Profiles are selected in a 125 mm grid according to enclosure widths or heights. For vertical profiles, an additional 500 mm (4 × 125 mm) must be added (for KSV…).

Vertical sections:

WS…-ID

Number of 125 mm "steps"
= 10, 11, 12, 13, 14, 15, 16, 17, 18, 19
Vertical **w**all profile

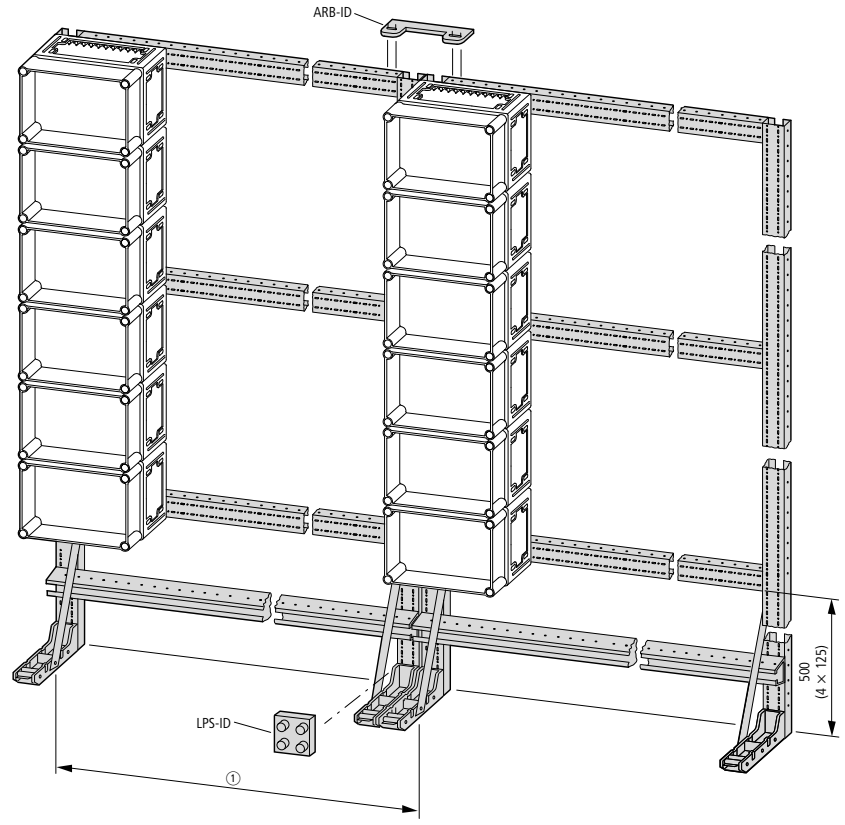
Horizontal section:

WW…-ID

Number of 125 mm "steps"
= 2, 3, 4, 5, 6, 7, 8, 9
Horizontal **w**all profile

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

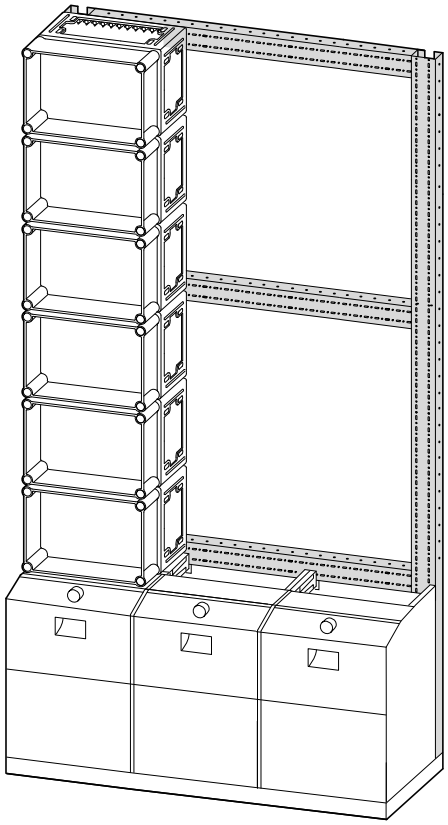
The vertical profiles of the supporting frame are wall-mounted with two wall fixing brackets WBW…-ID each (order separately).



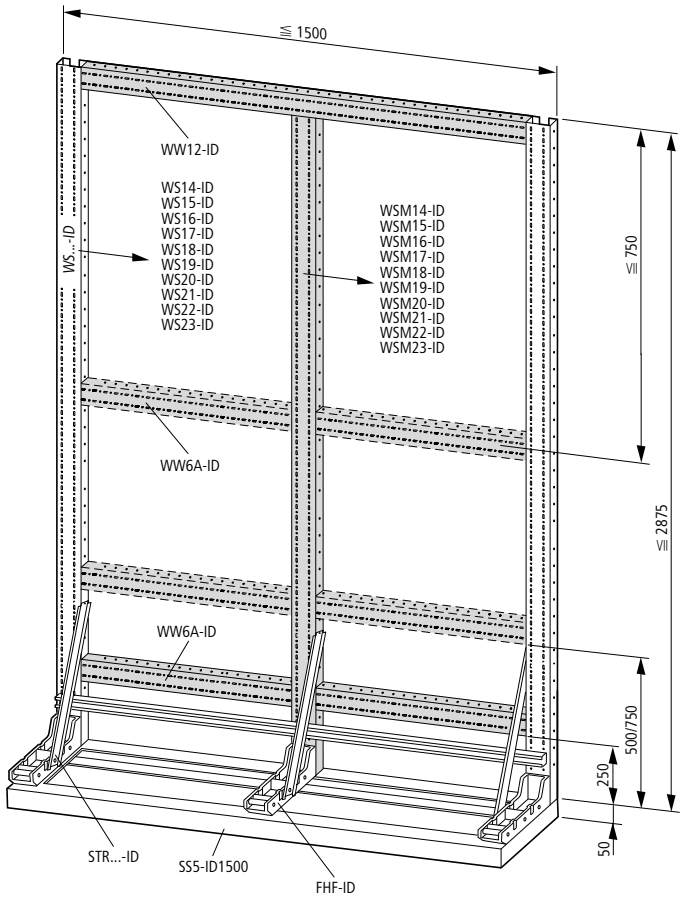
Where larger wall-mounted distribution boards are required, these are split into several transportation units. The wall-mounted profiles are mechanically interconnected with the help of an assembly bracket ARB-ID and straps LPS-ID.

① Transport unit

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



Floor-standing distribution board with 4 section width



Profiles are selected in a 125 mm grid according to enclosure widths or heights.

Vertical sections:
WS…-ID

Number of 125 mm "steps"
= 10, 11, 12, 13, 14, 15, 16, 17, 18, 19
Vertical **w**all profile

Horizontal section:
WW…-ID

Number of 125 mm "steps"
= 2, 3, 4, 5, 6, 7, 8, 9
Horizontal **w**all profile

For distribution boards wider than 1500 mm a vertical center profile is required in addition. The horizontal profiles are then correspondingly smaller.

WSM…-ID

Number of 125 mm "steps"
= 14, 15, 16, 17, 18, 19, 20, 21, 22, 23
Vertical **c**enter **w**all profile

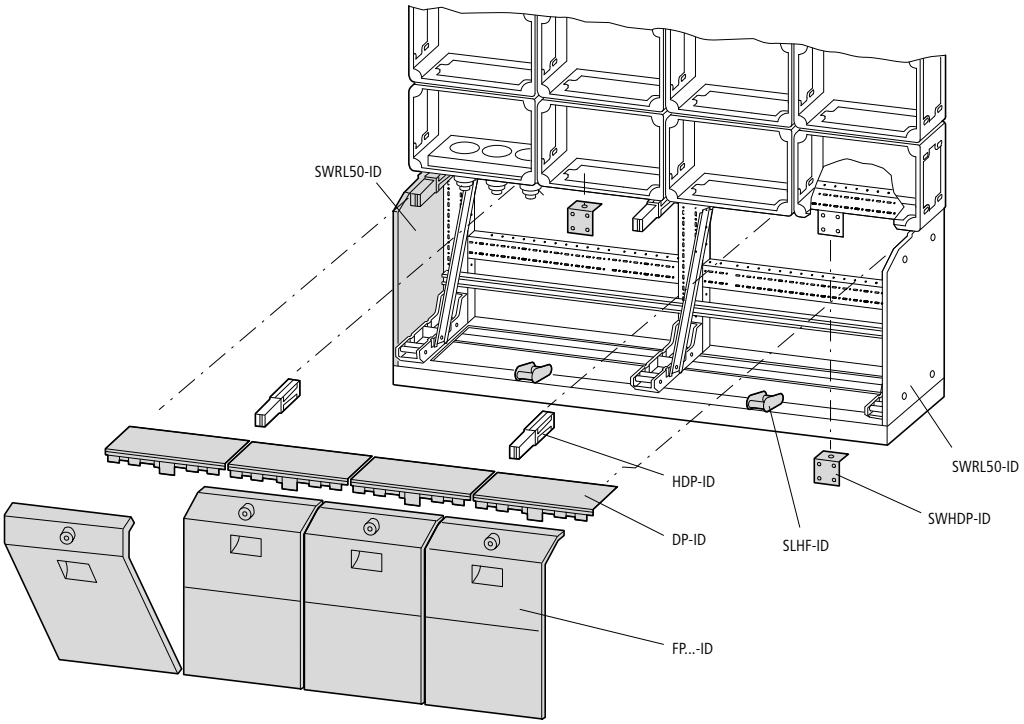
Vertical and horizontal profiles are connected with corner plates EVB-ID and cross plates KVB-ID (order separately).

The vertical profiles of the supporting frame are wall-mounted with two wall fixing brackets WBW…-ID each (order separately).

When mounting very heavy devices, e.g. NZM4, a reinforced framework is recommended. This can be achieved with the addition of a further center profile WSM…-ID and a foot FHF-ID.

WW...-ID, WS...-ID

Cable compartement cladding for floor-standing distribution board



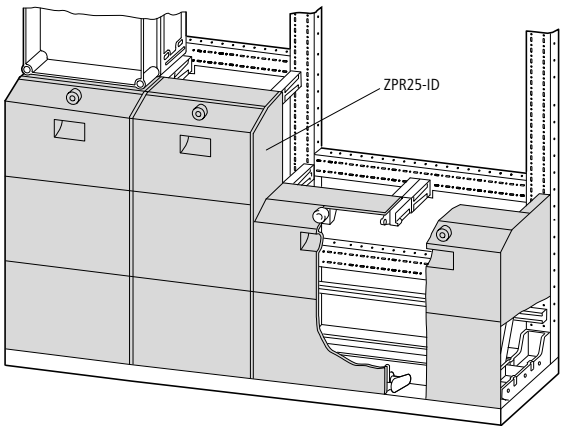
Floor-standing distribution boards are mounted on a base. Three cable compartment heights (250 mm, 500 mm and 750 mm plus 50 mm for the base) are available for inserting, sorting and marshalling cables. In addition, the base contains internal cable anchoring rails for T-foot clips. The front of the cable compartments is closed off with insulating front plates.

Combinability:

In addition, cable compartments of different heights can be combined. The side openings are closed off with intermediate plates. Left and righthand versions are available. The height is the difference of the different front plates.

ZP… …-ID

- R = right-hand intermediate plate
- 25 = 250 mm high intermediate plate
- 25 = 500 mm high intermediate plate
- L = left-hand intermediate plate



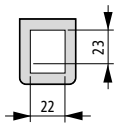
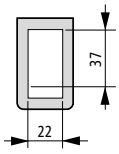
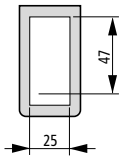
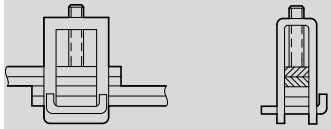
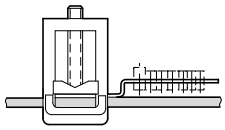
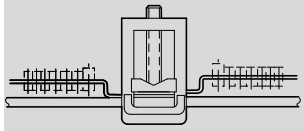
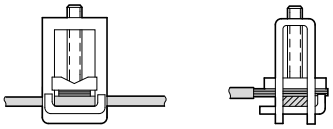
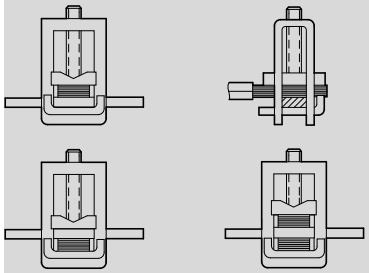
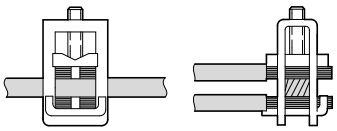
Tested to EN 60 439-4

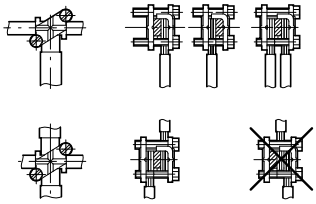
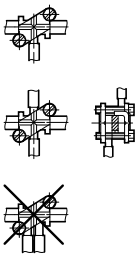
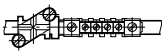
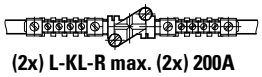
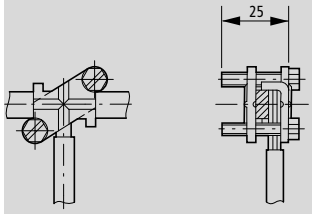
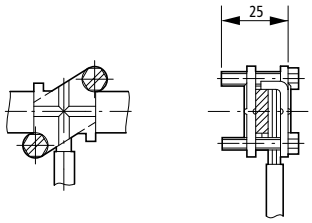
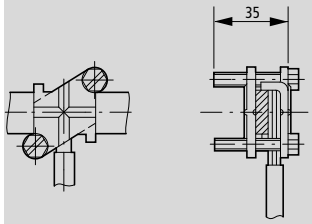
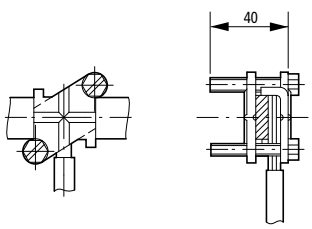
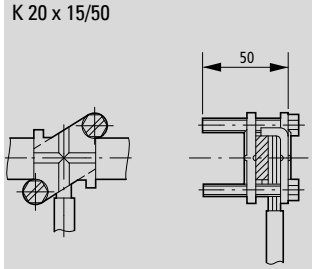
Individual enclosure CI…X-… and distribution board assembled from CI enclosures up to 630 A fulfil the additional requirements of EN 60 439-4. They are therefore suited for socket combinations and as system components for site distribution boards.

Connections to busbars

Type of connection	Terminal type K 12 x 5-1		K 12 x 5-2	
Copper busbar with Copper busbar	(2x) 12 x 5		(2x) 12 x 5 (3x) 12 x 5	
Copper busbar with (1x) strap L-KL-R (can be fitted with AK 16, AK 35)	(1x) 12 x 5	+ L-KL-R	(1x) 12 x 5 (2x) 12 x 5	+ L-KL-R
Copper busbar with (2x) strap L-KL-R (can be fitted with AK 16, AK 35)	-		(1x) 12 x 5 (2x) 12 x 5	+ (2x) L-KL-R
Copper busbar with 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 busbar with (2x) copper strip	-		12 x 5	+ (2x) 3 x 9 x 0.8 (2x) 4 x 16 x 0.8
Copper busbar with (4x) copper strip	-		12 x 5	+ (4x) 3 x 9 x 0.8
Copper busbar with round copper conductor[1)]	12 x 5	+ 16^2 … 25^2	12 x 5	+ 25^2

[1)] Flexible with ferrule

Type of connection	Terminal type K 20 x 5		K 20 x 10		K20 x 15	
						
Copper busbar with Copper busbar 	(2x) 20 x 5 (2x) 20 x 10		(2x) 20 x 5 (2x) 20 x 10 (2x) 20 x 15		(2x) 20 x 10 (2x) 20 x 15	
Copper busbar with (1x) strap L-KL-R (can be fitted with AK 16, AK 35) 	(1x) 20 x 5 (2x) 20 x 5 (1x) 20 x 10	+ L-KL-R	(1x) 20 x 5 (2x) 20 x 5 (1x) 20 x 10 (2x) 20 x 10 (1x) 20 x 15	+ L-KL-R	(2x) 20 x 10 (1x) 20 x 15 (2x) 20 x 15	+ L-KL-R
Copper busbar with (2x) strap L-KL-R (can be fitted with AK 16, AK 35) 	(1x) 20 x 5	+ (2x) L-KL-R	(1x) 20 x 5 (2x) 20 x 5 (1x) 20 x 10 (2x) 20 x 10 (1x) 20 x 15	+ (2x) L-KL-R	(2x) 20 x 10 (1x) 20 x 15 (2x) 20 x 15	+ (2x) L-KL-R
Copper busbar with 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 busbar with (2x) copper strip 	20 x 5	+ 2x) 3 x 9 x 0.8 (2x) 4 x 16 x 0.8	20 x 5 20 x 10 20 x 15	+ 2x) 3 x 9 x 0.8 (2x) 6 x 9 x 0.8 (2x) 9 x 9 x 0.8 (2x) 4 x 16 x 0.8 (2x) 6 x 16 x 0.8 (2x) 10 x 16 x 0.8 + (2x) 3 x 9 x 0.8 (2x) 6 x 9 x 0.8 (2x) 9 x 9 x 0.8 (2x) 4 x 16 x 0.8 (2x) 6 x 16 x 0.8 + (2x) 3 x 9 x 0.8 (2x) 6 x 9 x 0.8 (2x) 9 x 9 x 0.8 (2x) 4 x 16 x 0.8 (2x) 6 x 16 x 0.8	20 x 5 20 x 10 20 x 15	+ (2x) 6 x 9 x 0.8 (2x) 9 x 9 x 0.8 (2x) 6 x 16 x 0.8 (2x) 10 x 16 x 0.8 (2x) 11 x 21 x 1 + (2x) 3 x 9 x 0.8 (2x) 6 x 9 x 0.8 (2x) 9 x 9 x 0.8 (2x) 4 x 16 x 0.8 (2x) 6 x 16 x 0.8 (2x) 10 x 16 x 0.8 (2x) 11 x 21 x 1
Copper busbar with (4x) copper strip 	20 x 5	+ (4x) 3 x 9 x 0.8	20 x 5 20 x 10 20 x 15	+ 4x) 3 x 9 x 0.8 (4x) 6 x 9 x 0.8 (4x) 9 x 9 x 0.8 + (4x) 3 x 9 x 0.8 (4x) 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

Terminal type	Type of connection Copper busbar with copper strip		Copper busbar with round conductor[1]		Copper busbar with strap L-KL-R (can be fitted with AK 16, AK 35)	
					 **(1x) L-KL-R max. 200A**  **(2x) L-KL-R max. (2x) 200A**	
K 12 x 5/25 	12 x 5	+ (1x) 3 x 9 x 0.8 (2x) 3 x 9 x 0.8 (1x) 6 x 9 x 0.8 (2x) 6 x 9 x 0.8 (1x) 4 x 16 x 0.8 (2x) 4 x 16 x 0.8 (1x) 6 x 16 x 0.8 (2x) 6 x 16 x 0.8	12 x 5	+ 1.5² … 6²	12 x 5	+ (1x) L-KL-R (2x) L-KL-R
K 20 x 5/25 	20 x 5	+ (1x) 3 x 9 x 0.8 (2x) 3 x 9 x 0.8 (1x) 6 x 9 x 0.8 (2x) 6 x 9 x 0.8 (1x) 4 x 16 x 0.8 (2x) 4 x 16 x 0.8(1x) 6 x 16 x 0.8 (2x) 6 x 16 x 0.8	20 x 5	+ 1.5² … 6²	20 x 5	+ (1x) L-KL-R (2x) L-KL-R
K 20 x 10/35 	20 x 5 20 x 10	+ (1x) 3 x 9 x 0.8 (2x) 3 x 9 x 0.8 (1x) 6 x 9 x 0.8, (2x) 6 x 9 x 0.8 (1x) 9 x 9 x 0.8 (2x) 9 x 9 x 0.8 (1x) 4 x 16 x 0.8 (2x) 4 x 16 x 0.8 (1x) 6 x 16 x 0.8 (2x) 6 x 16 x 0.8 (1x) 10 x 16 x 0.8 (2x) 10 x 16 x 0.8	20 x 10	+ 1.5² … 6²	20 x 10	+ 1x) L-KL-R (2x) L-KL-R
K 20 x 15/40 	20 x 5 20 x 10 20 x 15	+ (1x) 3 x 9 x 0.8 (2x) 3 x 9 x 0.8 (1x) 6 x 9 x 0.8 (2x) 6 x 9 x 0.8 (1x) 9 x 9 x 0.8 (2x) 9 x 9 x 0.8 (1x) 4 x 16 x 0.8 (2x) 4 x 16 x 0.8 (1x) 6 x 16 x 0.8 (2x) 6 x 16 x 0.8 (1x) 10 x 16 x 0.8 (2x) 10 x 16 x 0.8 + (1x) 11 x 21 x 1	20 x 5 20 x 10 20 x 15	+ 1.5² … 6²	20 x 5 20 x 10 20 x 15	+ (1x) L-KL-R (2x) L-KL-R
K 20 x 15/50 	20 x 15	+ (1x) 11 x 21 x 1 (2x) 11 x 21 x 1	20 x 15	+ 1.5² … 6²	20 x 15	+ (1x) L-KL-R (2x) L-KL-R

[1] Flexible with ferrule

Technical data

		CI23…	**CI43…**	**CI44…**	**CI45…**	**CI48…**
General						
Standards		IEC/EN 60529 EN 50262 DIN 43656 DIN 43660 EN 60439-4 for individual CI...X enclosures and distribution boards assembled from CI enclosures up to 680 A. Can therefore be used for socket combinations and as components for site distribution boxes.				
Climatic proofing		Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30				
Ambient temperature	°C	-40 - 80				
Protection type		IP65				
Radiated heat dissipation						
		→ Page 20/86				
Additional technical data for UL/CSA approved devices		See UL report File No. E54120 → Chapter 23				
Material properties						
Material						
Base		Glass-fibre reinforced polycarbonate				
Cover		Non-reinforced polycarbonate				
Surface treatment		Corrosion-resistant				
Color						
Base		RAL 7032, pebble grey				
Cover		Transparent, opaque or RAL 7032, pebble grey				
Material properties						
Electrical						
Creepage resistance to IEC 60112						
Base		KB160, KC175				
Cover		KB100, KC200				
Surface treatment to IEC 60093	Ω x 10^{13}	> 1				
Dielectric strength to IEC 60243-1	kV/mm	30				
Thermal						
Continuous thermal stability						
Housing	°C	-40…120				
Enclosure bolt	°C	85				
Sealing	°C	80				
Mechanical						
IK code to EN 50102		Please enquire				
Load bearing capacity	kg	5	10	20	30	40
Chemical resistance						
Resistant		Acids < 10 %, mineral oil, alcohol, petrol, grease, saline solutions				
Partially resistant		Acids > 10 %				
Non-resistant		Alkalis, paraffin				
Atmospheric						
Saline spray		IEC 60068-2-11				
UV resistance		Beneath protective canopy				
Water absorption to EN ISO 62	%	0.29				
Flammability characteristics						
Glow wire to VDE 0471 Part 2	°C	960				
UL						
Base		UL94V1				
Cover		UL94V2				
Halogen free		Yes (lower section and cover)				

			CI...						
General									
Components			Components of switchgear assemblies are type-tested. They are suitable for self-assembly of switchgear installations, distribution boards and control panels.						
Mounting units			The reference values stated apply to the basic elements of the distribution board. For devices fitted, terminals etc., their reference and rated values apply.						
Standards									
TTA – Type Tested Assemblies			IEC/EN 60439-1, VDE 0660 Part 500						
Low-voltage fuses			IEC/EN 60269, VDE 0636						
Type test			VDE 0660 Part 500, IEC/EN 60439-1						
Creepage and clearance distances			III/3 to IEC/EN 60439-1						
Flammability characteristics - Glow rod test			VDE 0304 Part 3 level IIb, level IIb to IEC 60707						
Regulations for fire-resistance tests of electrical products, their modules and components, glow wire test			VDE 0471 Part 2						
Operating and environmental conditions to VDE 0660 Part 500									
Ambient temperature									
Mean value over 24 hours		°C	35						
Limit values		°C	-5…40						
Indoor installation									
Relative humidity									
at 20 °C		%	90						
at 40 °C		%	50						
Installation altitude		m	max. 2000						
Protection type									
CI enclosure			IP65						
KST cable entry from below			IP65						
KST cable entry from above			IP64						
Cable entry open			IP00						
Modular grid (enclosure basic dimensions)		mm	25 (DIN 43660)						
Color									
Base			RAL 7032, pebble grey						
Cover			Transparent, opaque or RAL 7032, pebble grey						
			CI...-NA: Transparent cover, opaque						
Surface protection with metals			Galvanized, passivated						
Radiated heat dissipation			→ Page 20/86						
Electrical characteristics									
Busbar system									
Rated operating voltage	U_e	V AC	690	690	690	690	690	690	
Rated insulation voltage									
AC	U_i	V AC	690	690	690	690	690	690	
DC	U_i	V DC	800	800	800	800	800	800	
Rated operational current	**I_e**	**A**	**160**	**250**	**400**	**630**	**1000**	**1600**	
Rated short-time withstand current									
t = 0.1 s cos φ = 0.2	I_{cw}	kA	20	25	35	40	80	80	
Rated short-time withstand current t = 1 s	I_{cw}	kA	4	7	14	28	50	66	
Rated peak withstand current	I_{pk}	kA	40	52.5	73.5	84	176	176	
Distance between busbar supports		mm	≦ 375	≦ 375	≦ 375	≦ 375	≦ 375	≦ 375	

Radiated heat dissipation

CI...

		CI...	
Radiated heat dissipation of the insulated enclosures CI	**Part no.**	**Dimensions W x H x D** mm	**Heat dissipation** W
Max. radiated heat dissipation of the CI insulated enclosures with separate mounting, ambient air temperature +20 °C	CI23...-125	187.5 x 250 x 150	33
	CI23...-150	187.5 x 250 x 175	36
	CI43...-125	375 x 250 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	66
	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	89
	CI48...-200	375 x 750 x 225	138
	CI48...-250	375 x 750 x 275	164
Max. radiated heat dissipation of the CI insulated enclosures with use in distribution boards to VDE 0660 Part 500	CI23-...	187.5 x 250 x 150 187.5 x 250 x 175	25
	CI43-...	375 x 250 x 150 375 x 250 x 175 375 x 250 x 225	42
	CI44-...	375 x 375 x 150 375 x 375 x 175 375 x 375 x 225 375 x 375 x 275	54
	CI45-...	375 x 500 x 225	67
	CI48-...	375 x 750 x 225 375 x 750 x 275	93

Notes

When calculating the heat dissipation, the quadratic relationship of current with the rated diversity factor α must be considered.

$P_v = I^2 \times R$

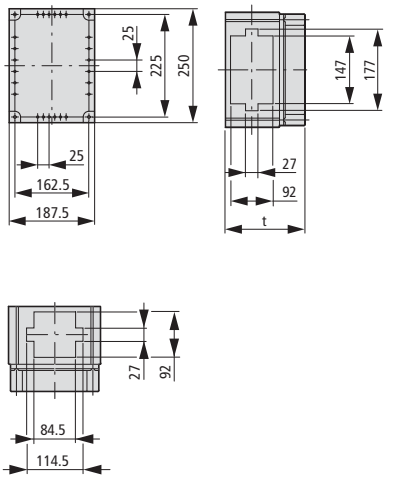
$P_v' = P_v \times \alpha^2$

If no data is available concerning the load relationships of the individual circuits, the rated diversity factor is selected conform to VDE 0660 Part 500.

Dimensions

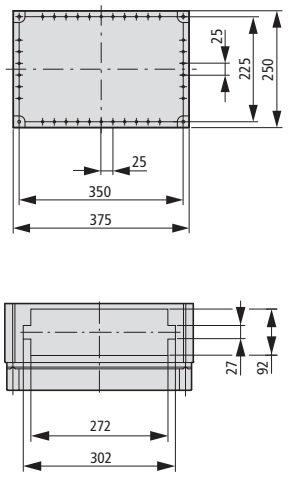
Insulated enclosures

CI123...
RS.../I23...
GS00/I23...
GSTA00/I23E



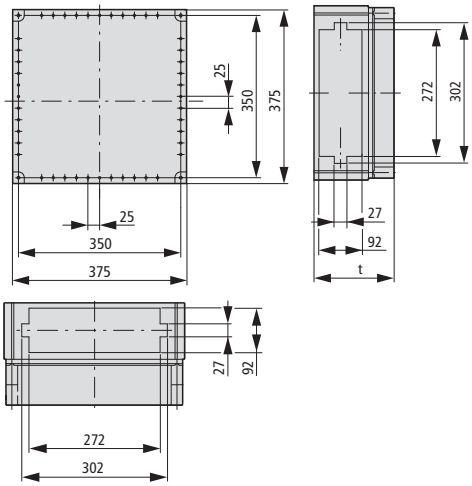
t = 150/175 mm

CI43...
KST43..., Dimension with gland plates → Page 20/11
K...KST43..., Dimension with gland plates → Page 20/38
ZG/I43E-G-...
RS.../I43...
GS00-.../I43...
GSTA00-../I43...



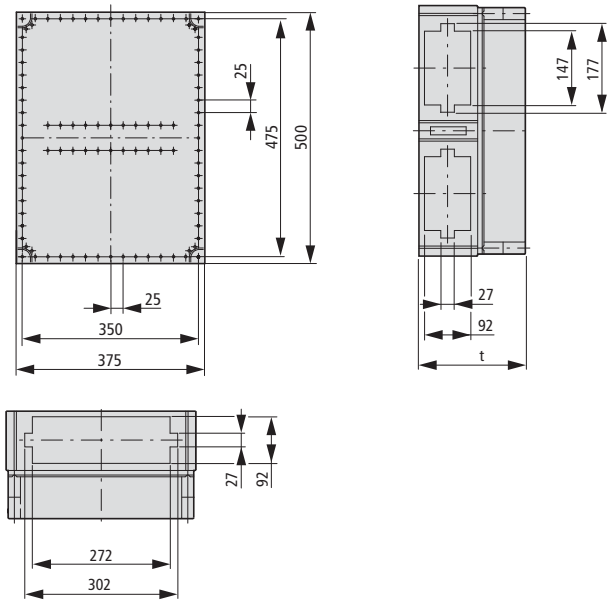
t = 150/175/225 mm

CI44...
KST44..., Dimension with gland plates → Page 20/12
K...KST44..., Dimension with gland plates → Page 20/39
SKA...-I44, ZG/I44E-...
ESK.../I44, EPEN.../I44
RSK.../I44, RS.../I44...
GS2/I44, GSTA.../I44...



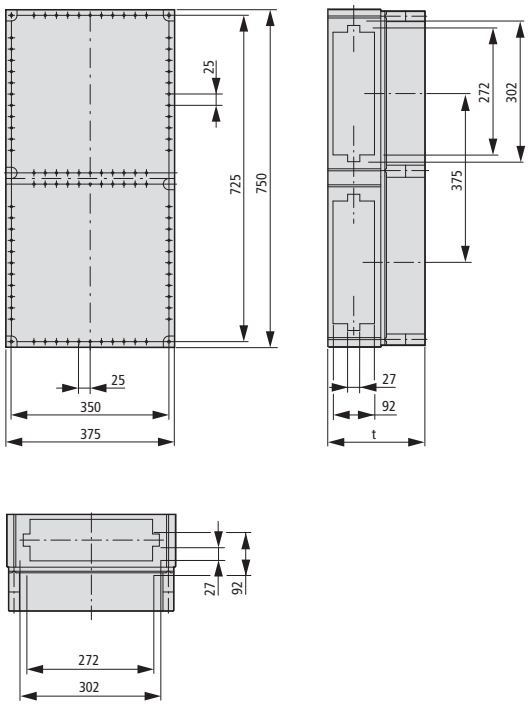
t = 150/175/225//275 mm

CI45...
ZG/I45E-...
GS.../I45E
GSTA.../I45E



t = 225 mm

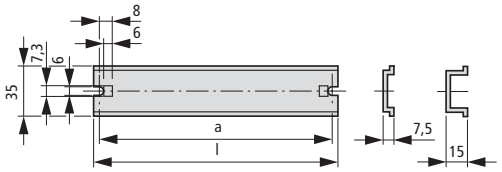
CI48...
KST48..., Dimension with gland plates → Page 20/13
K...KST48..., Dimension with gland plates → Page 20/39
ZG/I48-...
GSTA.../I48E GS.../I48E



t = 225/275 mm

Mounting rails

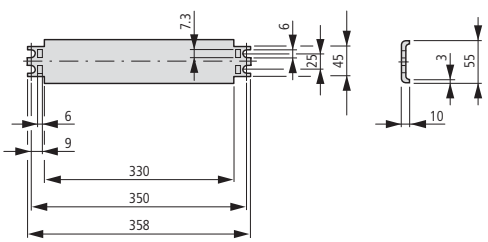
CL...



Part no.	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

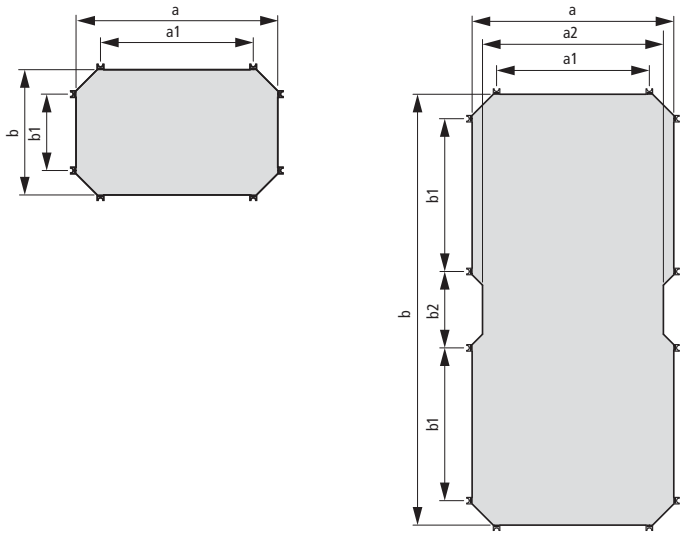
ML...



M3-CI..., IM4-CI..., W..., FL..., ZRF..., AE/..., AV/...

Mounting plates

M3-CI-… IM4-CI… M3-CI48 IM4-CI48

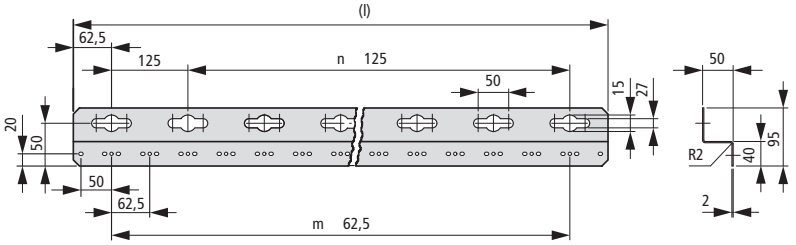


Part no.	a	b	a1	b1	a2	b2
M3-CI23, IM4-CI23	142.5	205	62.5	125	-	-
M3-CI43, IM4-CI43	330	205	250	125	-	-
M3-CI44, IM4-CI44	330	330	250	250	-	-
M3-CI45	330	455	250	375	-	-
M3-CI48, IM4-CI48	330	705	250	250	296	125

Insulated mounting plate IM4-...: 4 mm thick
Mounting plate M3-... 3 mm thick

Wall fixing bracket

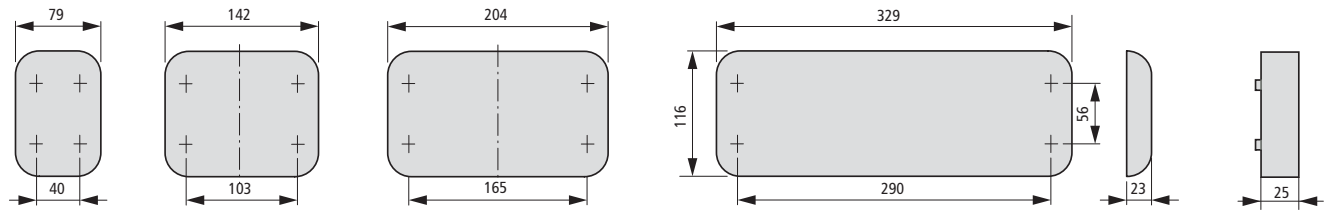
W…/…



Part no.	l	n	m
W4/8	625	4	8
W6/8	875	6	12
W8/16	1125	8	16
W10/20	1375	10	20
W16/32	2125	16	32

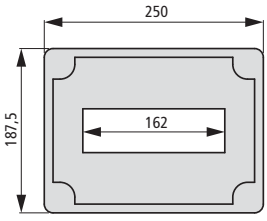
Flanges spacers

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

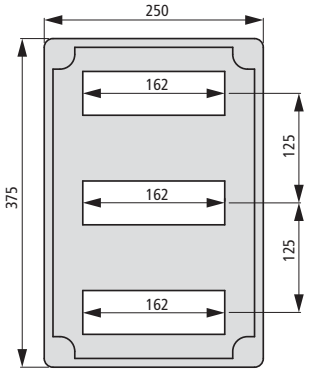


MCB enclosure
MCB distribution board enclosure

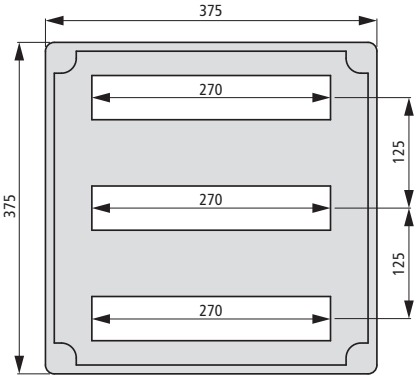
AE/I23
AV/I23 Dimensions identical but rotated by 90°



AE/I43
AV/I43 Dimensions identical but rotated by 90°



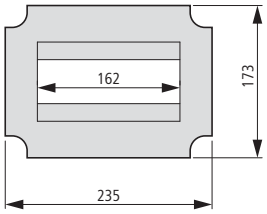
AE/I44
AV/I44 Dimensions identical but rotated by 90°



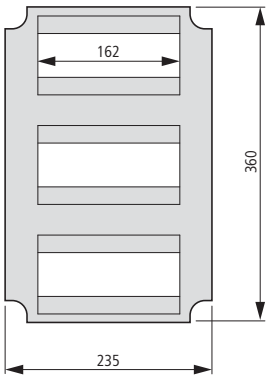
GA-..., MCCB1-..., MCCB2-...

Protective cover

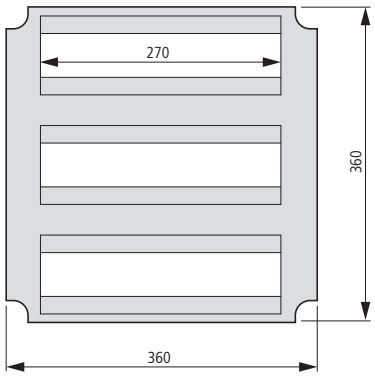
GA-0/I23



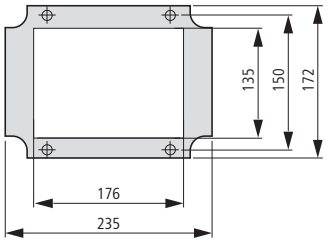
GA-0/I43



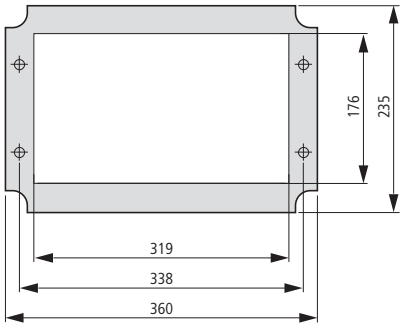
GA-0/I44



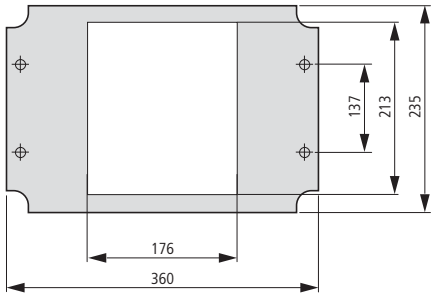
GA-RS-I23



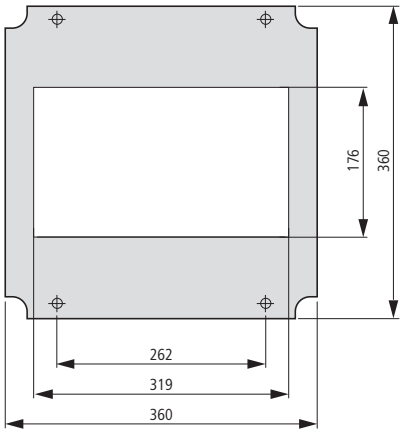
GA-RS-I43



GA-RS-I43-G

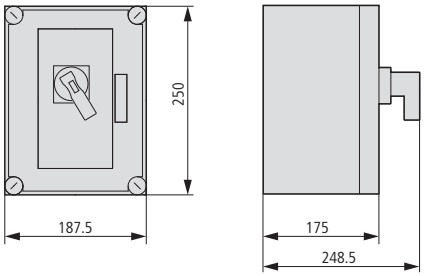


GA-RS-I44

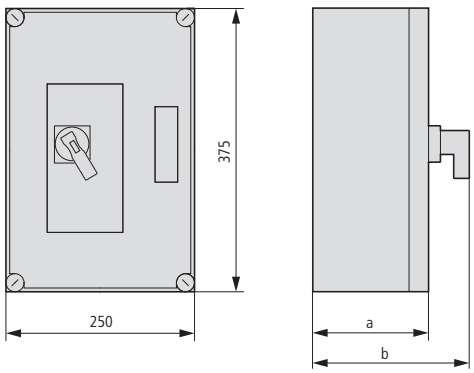


Prepared MCCB enclosures

MCCB1-63/I23E-150



MCCB.../I43E-...

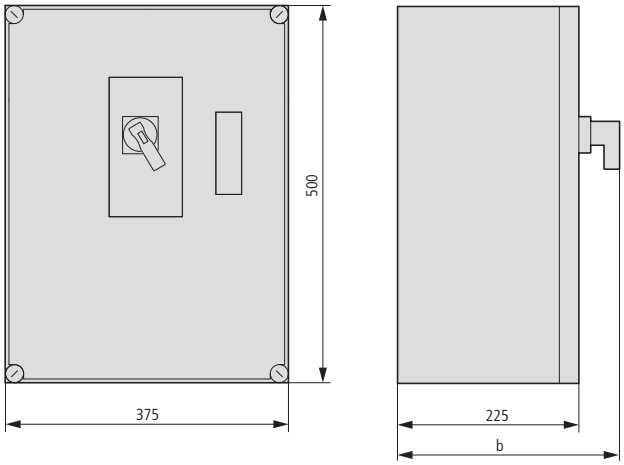


Part no.	a	b
MCCB1-125/I43E-150	175	248.5
MCCB1-160/I43E-200	225	298.5
MCCB2-200/I43E-200	225	298.5

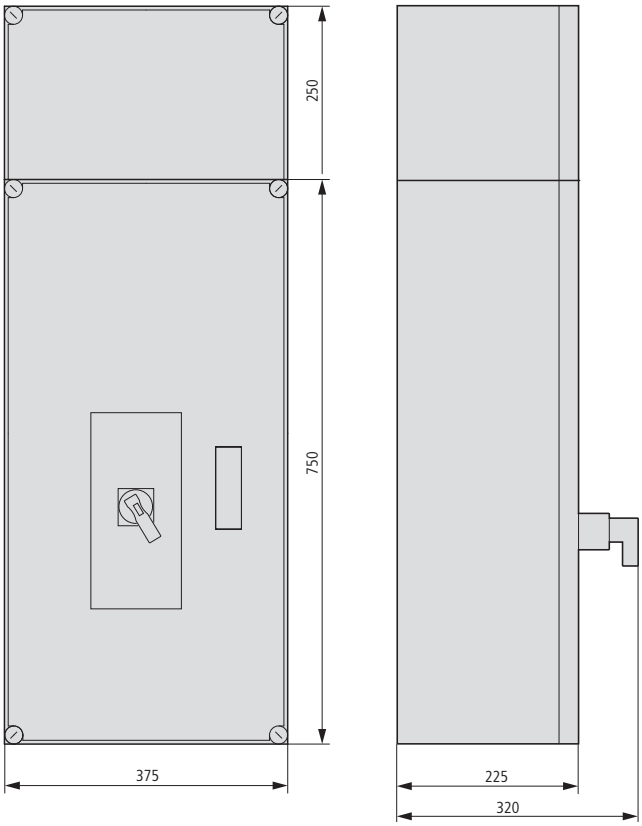
MCCB2-..., MCCB3-..., T-CI..., K...-A

Prepared MCCB enclosures

MCCB.../I45E-200



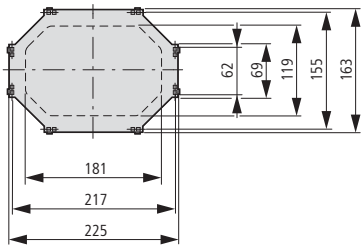
MCCB3-630/I48/I43E-200



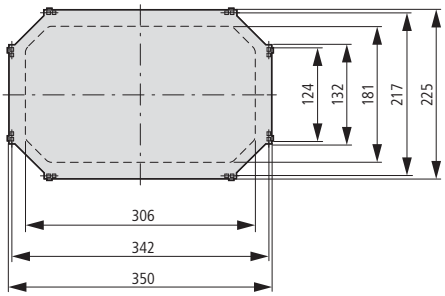
Part no.	b
MCCB2-250/I45E-200	298.5
MCCB3-400/I45E-200	320

Doors

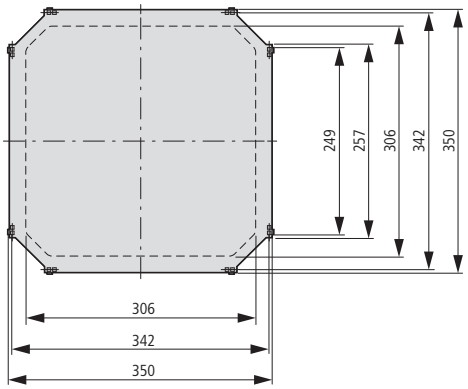
T-CI23



T-CI43

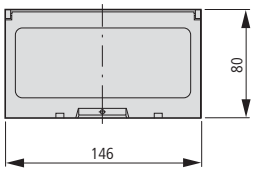


T-CI44

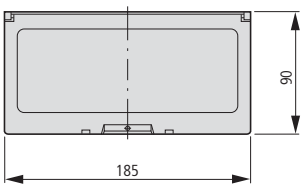


Hinged flaps

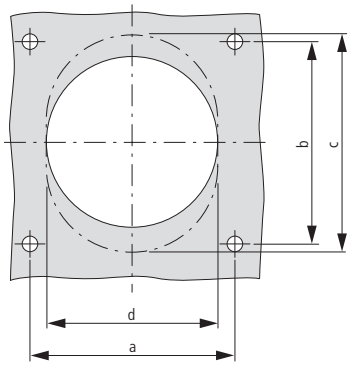
K-A



KG-A



Openings of covers (D...STV) and flanges (FL...) for socket devices



European socket (Schuko) with grounding provisions, 16 A, 5-pole

Part no.	a mm	b mm	c mm	d mm
Cover 16 A	45	45	-	47
Flange 16 A	52	52	-	57

CEE, 16–125 A, 5-pole

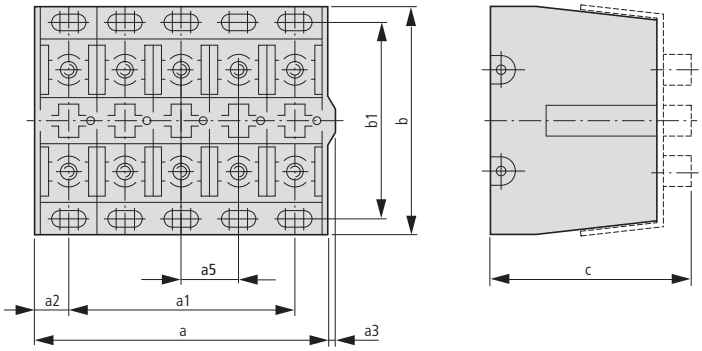
Part no.	a mm	b mm	c mm	d mm
16 A	90	90	-	78
32 A	90	90	-	87
63 A	90	90	98	92
125 A	90	90	107	94

Terminals

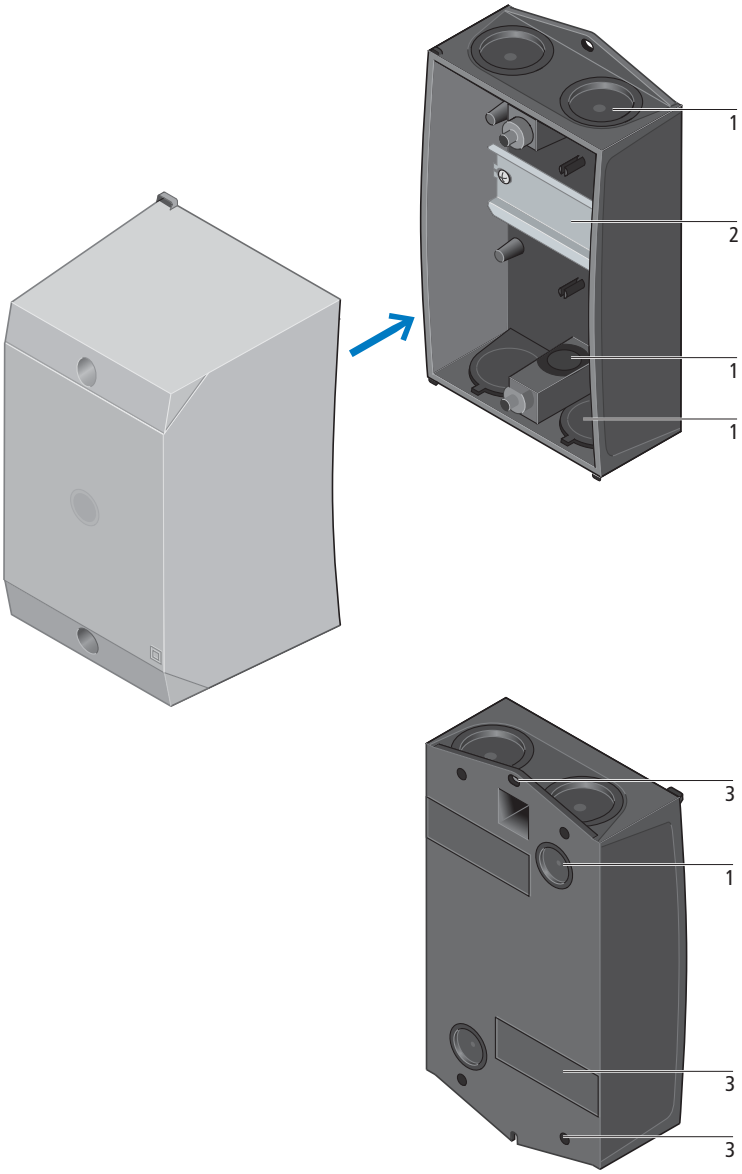
K.../1 K.../4



Part no.	a	a1	a2	a3	b	b1	c	a5
K95/1/N	37	-	18.5	3	115	100	88	-
K95/4	130	100	15	3	115	100	88	31
K150/1	37	-	18.5	3	115	100	105	-
K150/4	130	100	15	3	115	100	105	31
K240/1	52	-	26	3	115	100	120	-
K240/4	190	150	20	3	115	100	120	46
K2X240/1	68	-	34	4	140	125	127	-
K2X240/4	254	200	27	4	140	125	127	62



System overview



General
Protection type IP65 (except CI-K2-80-A)
Five basic sizes (floor area of enclosure lower section)
Two overall depths per base surface (exception: CI-K1 enclosure depth always 95 mm, CI-K2-80-... enclosure depth always 80 mm)
Enclosure made of glass-fibre reinforced with self-extinguishing polycarbonate, halogen free
Captive gasket
Enclosure base RAL 9005)
Black (matt)
Enclosure cover RAL 7035, light grey (matt)

Metric cable entries	1
CI-K1 and CI-K2:
metric cable entry knockouts with push-through cable entry diaphragm in the sides, top and bottom and also in the rear wall
CI-K1H, CI-K2H:
metric cable entry knockouts in the enclosure sides, top and bottom
CI-K3 to CI-K5:
metric cable entry knockouts in the sides, top and bottom and also in the rear wall
Control cable entry with CI-K2
Metric cable glands to EN 50 262
Push-through metric cable grommets
→ Page 20/95, → Chapter 16: Accessories for control panel building

Mounting systems for basic enclosures	2
Mounting rails to IEC/EN 60 715
Sheet steel mounting plates
Accessories for mounting systems
→ Page 20/97

Mounting	3
Horizontal and vertical slot apertures for wall-mounting enclosures
Captive cover screws
Rubber feet on the back plate to compensate for uneven walls for CI-K1 and CI-K2
External fixing bracket for CI-K4 and CI-K5
→ Page 4/67

Mounting units
Miniature circuit breakers (MCB)
Rotary switches
Switch-disconnectors
Contactors
easy control relays
Timing relay
Pilot devices

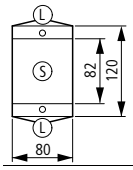
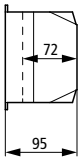
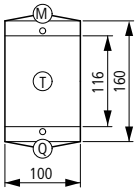
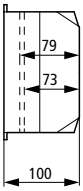
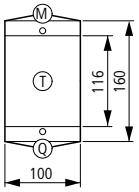
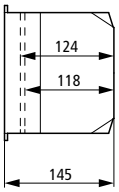
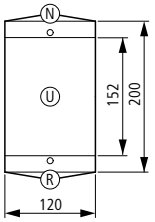
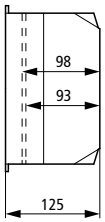
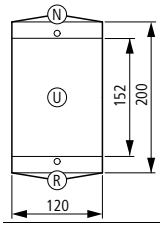
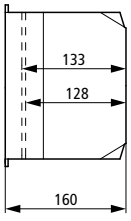
- Laser labelling

We can label the cover surface
of the small enclosures CI-K according to your specifications.
Washable and permanent with modern laser inscription.
Please contact:
Technical information/product advice
Tel. +49 (0)228 602-3704
Fax. +49 (0)0228 602-69403
E-mail: Technik-Bonn@eaton.com
CI-K-Combination-* → Page 20/94
Approved enclosures for use in UL/CSA → Page 20/96

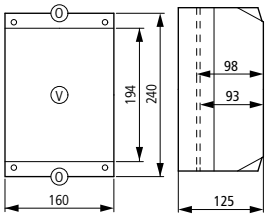
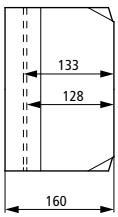
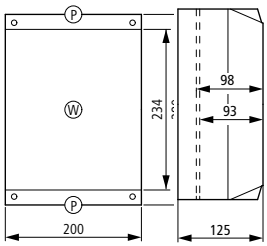
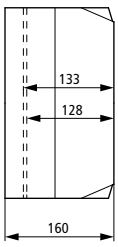
- Cutouts in enclosure covers

We can drill cutouts in enclosure covers to your requirements.
Please contact:
Technical information/product advice
Tel. +49 (0)228 602-3704
Fax. +49 (0)0228 602-69403
E-mail: Technik-Bonn@eaton.com

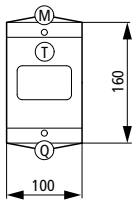
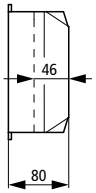
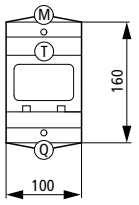
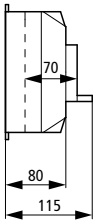
Ordering

Dimensions	Enclosure depth: Dimensions from top: 1. Mounting depth for mounting plate 2. Mounting depth for mounting rail 7.5 mm height 3. Enclosure depth	Mounting depth		Features	**Part no.** Article no.	**Price** See price list	Std. pack
		For mounting plate	For 7.5 mm mounting rail				
mm	mm	mm	mm				
CI-K basic enclosures							
• Protection type IP65 (exception: CI-K2-80-A), material characteristic glass-fibre reinforced polycarbonate • Enclosure base RAL 9005, black/enclosure top only RAL 7035, light grey • Metric cable entry knockouts top, bottom and in the back plate • Push-through cable membrane with CI-K1 and CI-K2 • Hard metric knockouts with CI-K1H and CI-K2H • Hard metric knockouts with CI-K3 to CI-K5 • Control cable entry with CI-K2 • Indicator light L-. can be mounted in base knock out M20/M25							
		–	72	With mounting rail	**CI-K1-95-TS** 206881		1 off
		–	72	With mounting rail	**CI-K1H-95-TS** 105853		1 off
		–	73	With mounting rail	**CI-K2-100-TS** 206882		1 off
		–	73	With mounting rail	**CI-K2H-100-TS** 229304		1 off
		79	–	With mounting plate	**CI-K2-100-M** 206893		1 off
		79	–	With mounting plate	**CI-K2H-100-M** 229306		1 off
		–	118	With mounting rail	**CI-K2-145-TS** 206883		1 off
		–	118	With mounting rail	**CI-K2H-145-TS** 229305		1 off
		124	–	With mounting plate	**CI-K2-145-M** 206894		1 off
		124	–	With mounting plate	**CI-K2H-145-M** 229307		1 off
		124	–	With adapter plate for contactor DILE with overload relay ZE	**CI-K2-145-AD** 207632		1 off
		124	–	With adapter plate for contactor DILE with overload relay ZE	**CI-K2H-145-AD** 229308		1 off
		–	93	With mounting rail	**CI-K3-125-TS** 206884		1 off
		98	–	With mounting plate	**CI-K3-125-M** 206895		1 off
		–	128	With mounting rail	**CI-K3-160-TS** 206885		1 off
		133	–	With mounting plate	**CI-K3-160-M** 206896		1 off

Notes Number and size of cable entries → Page 20/95

Dimensions	Enclosure depth: Dimensions from top: 1. Mounting depth for mounting plate 2. Mounting depth for mounting rail 7.5 mm height 3. Enclosure depth	Mounting depth		Features	**Part no.** Article no.	**Price** See price list	Std. pack
		For mounting plate	For 7.5 mm mounting rail				
mm	mm	mm	mm				
CI-K basic enclosures							
• Protection type IP65 (exception: CI-K2-80-A), material characteristic glass-fibre reinforced polycarbonate • Enclosure base RAL 9005, black/enclosure top only RAL 7035, light grey • Metric cable entry knockouts top, bottom and in the back plate • Push-through cable membrane with CI-K1 and CI-K2 • Hard metric knockouts with CI-K1H and CI-K2H • Hard metric knockouts with CI-K3 to CI-K5 • Control cable entry with CI-K2 • Indicator light L-. can be mounted in base knock out M20/M25							
		–	93	With mounting rail	**CI-K4-125-TS** 206886		1 off
		98	–	With mounting plate	**CI-K4-125-M** 206897		1 off
		–	128	With mounting rail	**CI-K4-160-TS** 206890		1 off
		133	–	With mounting plate	**CI-K4-160-M** 206898		1 off
		–	93	With mounting rail (Weight of fitted components max. 0.65 kg)	**CI-K5-125-TS** 206891		1 off
		98	–	With mounting plate (weight of fitted components max. 1.7 kg)	**CI-K5-125-M** 206899		1 off
		–	128	With mounting rail (Weight of fitted components max. 0.65 kg)	**CI-K5-160-TS** 206892		1 off
		133	–	With mounting plate (weight of fitted components max. 1.7 kg)	**CI-K5-160-M** 206900		1 off
Customised cutouts and laser inscriptions							
• Only with operator only • The necessary data (laser data, symbols, text and their respective positions) as well as the position of the cutouts must be provided as a DXF file.							
					CI-K1-COMBINATION-* 102060		1 off
					CI-K2-COMBINATION-* 102061		1 off
					CI-K3-COMBINATION-* 102062		1 off
					CI-K4-COMBINATION-* 102063		1 off
					CI-K5-COMBINATION-* 102064		1 off

Notes Number and size of cable entries → Page 20/95

Dimensions	Enclosure depth: Dimensions from top: 1. Mounting depth for mounting plate 2. Mounting depth for mounting rail 7.5 mm height 3. Enclosure depth	Mounting depth		Features		**Part no.** Article no.	**Price** See price list	Std. pack
		For mounting plate	For 7.5 mm mounting rail					
mm		mm	mm					
CI-K2 basic enclosures								
• Protection type IP30, material characteristic glass-fibre reinforced polycarbonate • Enclosure base RAL 9005, black/enclosure top only RAL 7035, light grey • Metric cable entry knockouts top, bottom and in the back plate • Push-through cable entry diaphragm with CI-K2 • Hard metric knockouts with CI-K2H • Control cable entry • Indicator light L-. can be mounted in base knock out M20/M25								
–								
		–	46	With standard cutout dimensions	Standard cutout dimensions and mounting rail for mounting devices requiring 2 to 4 space units. Push-through cable entry membrane. Close off of unused space units (max. 2) using blanking strips VST1, → Page 20/98	**CI-K2-80-A** 211107		1 off
		–	46	With standard cutout dimensions	Standard cutout dimensions and mounting rail for mounting devices requiring 2 to 4 space units. Hard metric knockouts. Close off of unused space units (max. 2) using blanking strips VST1, → Page 20/98	**CI-K2H-80-A** 229309		1 off
		–	70	With hinged cover	Transparent hinged cover for mounting devices requiring 2 to 4 space units. Push-through cable entry diaphragm.	**CI-K2-80-K** 211108		1 off
		–	70	With hinged cover	Transparent hinged cover for mounting devices requiring 2 to 4 space units. Hard metric knockouts.	**CI-K2H-80-K** 229310		1 off

Notes Diaphragm grommets, cable glands → Chapter 16: Accessories for panel construction

L



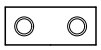
Knockouts
2 X M20 or push-through membrane up to max. ∅ 12 mm

M



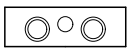
Knockouts
2 x M25 or push-through membrane up to max. ∅ 16 mm
CI-K2H: 2 x M25/20

N



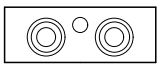
Knockouts
2 x M25/20

O



Knockouts
2 x M32/25
1 x M20

P



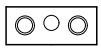
Knockouts
2 x M50/40/25
1 x M20

q



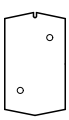
Knockouts
2 x M25 or push-through membrane up to max. ∅ 16 mm and 1 push-through membrane up to max. ∅ 8 mm
CI-K2H: 2 x M25/20

R



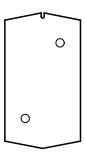
Knockouts
2 x M25/20
1 x M20

S



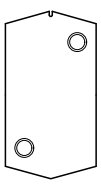
Back plate:
2 x push-through membrane up to max. ∅ 8mm

T



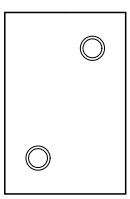
Back plate:
2 x push-through membrane up to max. ∅ 11mm
(not for CI-K2H)

U



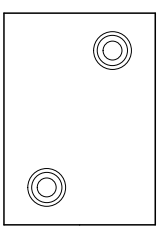
Back plate:
2 x M25/20

V



Back plate:
2 x M32/25

W

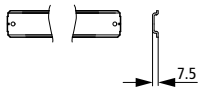
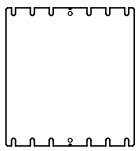
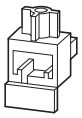
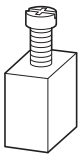


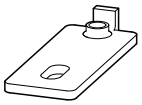
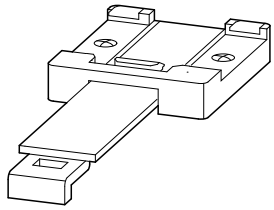
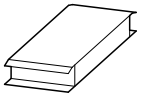
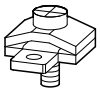
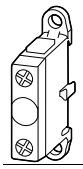
Back plate:
2 x M50/40/25

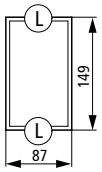
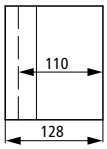
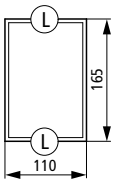
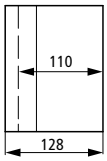
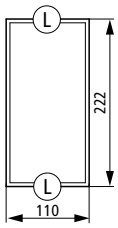
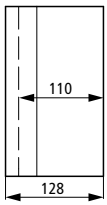
Dimensions Width mm	Height mm	Depth mm	Mounting depth mm	Features	**Part no.** Article no.	**Price** See price list	Std. pack
CI-K basic enclosures							
• Protection type IP65 • Enclosure base RAL 9005, black/enclosure top only RAL 7035, light grey • Approved for UL, CSA • CI-K2X…: 4 x ½ inch knockouts • CI-K3X…, CI-K4X…, CI-K5X…: smooth overall with sharp corners							
100	160	100	73	With mounting rail	**CI-K2X-100-TS-NA** 231220		1 off
			79	With mounting plate	**CI-K2X-100-M-NA** 231228		
		145	118	With mounting rail	**CI-K2X-145-TS-NA** 231221		
			124	With mounting plate	**CI-K2X-145-M-NA** 231229		
120	200	125	93	With mounting rail	**CI-K3X-125-TS-NA** 231222		
			98	With mounting plate	**CI-K3X-125-M-NA** 231230		
		160	128	With mounting rail	**CI-K3X-160-TS-NA** 231223		
			133	With mounting plate	**CI-K3X-160-M-NA** 231231		
160	240	125	93	With mounting rail	**CI-K4X-125-TS-NA** 231224		
			98	With mounting plate	**CI-K4X-125-M-NA** 231232		
		160	128	With mounting rail	**CI-K4X-160-TS-NA** 231225		
			133	With mounting plate	**CI-K4X-160-M-NA** 231233		
200	280	125	93	With mounting rail	**CI-K5X-125-TS-NA** 231226		
		160	128	With mounting rail	**CI-K5X-160-TS-NA** 231227		
	280	125	98	With mounting plate	**CI-K5X-125-M-NA** 231234		
		160	133	With mounting plate	**CI-K5X-160-M-NA** 231236		

Information relevant for export to North America

Product Standards	UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94; IEC/EN 60947-3; CE marking
UL File No.	E54120, E337418
UL CCN	MITW2
CSA File No.	12528
CSA Class No.	3211-07
NA Certification	UL Listed, CSA certified
Specially designed for NA	Yes
Degree of Protection	IEC: IP65; UL/CSA Type 1, 3R, 4X, 12, 13 – indoor and outdoor use

	For use with	Mounting position	Features	Useful length	**Part no.** Article no.	**Price** See price list	Std. pack	**Information relevant for export to North America**
Mounting rails								
Height 7.5 mm, with fixing screws								
	CI-K1	Crosswise	–	60 mm	**TS-CI-K1** 206901		10 off	UL/CSA certification not required
	CI-K2	Crosswise	–	82 mm	**TS-CI-K2** 206902			
	CI-K3	Lengthwise and cross-wise	–	98 mm	**TS-CI-K3** 206903			
	CI-K4	Crosswise	–	133 mm	**TS-CI-K4** 206904			
	CI-K5	Lengthwise and cross-wise, CI-K4 lengthwise	–	173 mm	**TS-CI-K5** 206905			
Mounting plates								
2 mm sheet steel with fixing screws								
	CI-K2	–	–	–	**M-CI-K2** 206906		10 off	UL/CSA certification not required
	CI-K3	–	–	–	**M-CI-K3** 206907			
	CI-K4	–	–	–	**M-CI-K4** 206908			
	CI-K5	–	–	–	**M-CI-K5** 206909			
Accessories for mounting systems								
Spacers • For raising the mounting systems • (4 off required for mounting plate, 2 off required for mounting rail)								
	–	–	by 25 mm	–	**HS25-CI** 002291		25 off	UL/CSA certification not required
	–	–	by 50 mm	–	**HS50-CI** 002292			
	–	–	by 10 mm	–	**ADT200-190** 002289		10 off	UL/CSA certification not required
	–	–	by 15 mm	–	**ADT125-110** 002290			

	For use with	Terminal capacity Flexible mm²	**Part no.** Article no.	**Price** See price list	Std. pack	**Information relevant for export to North America**
Accessories for small enclosures CI-K						
Set of external fixing brackets To secure CI-K4 and CI-K5 directly on the wall. Each set contains four brackets.						
	T5B-…/I4, T5-…/I5, P3-63/I4, P3-100/I5,	–	**AB-CI-K4/5** 206914		1 off	UL/CSA certification not required
Mounting rail adapter, screw fixing To secure enclosure on mounting rails to IEC/EN 60715						
	CI-K1	–	**TB-CI-K** 206918		1 off	UL/CSA certification not required
Blanking strips To blank off one space unit; cannot be removed from outside						
	CI-K2-80-A	–	**VST1** 211258		5 off	UL/CSA certification not required
N terminals, PE terminals Screwed onto support bosses in the enclosure base plate						
	CI-K2-PKZ0- … CI-K1/2	1 - 4 mm²	**K-CI-K1/2** 207451		20 off	UL/CSA certification not required
Insulated individual terminals • With PE, N adhesive labels • For snap-fitting onto mounting rail						
	CI-K3	1 - 10 mm²	**K-CI-K3** 206915		20 off	UL/CSA certification not required
	CI-K4 T5B-.../I4 CI-K4-T5B-... P3-.../I4	1.5 - 16 mm²	**K-CI-K4** 206916		20 off	UL/CSA certification not required
	CI-K5 T5-.../I5 CI-K5-T5-... P3-.../I5	10 - 35 mm²	**K-CI-K5** 218488		20 off	UL/CSA certification not required
Protective covers for push-through cable membrane with CI-K1(2) To cover push-through cable membranes						
–	CI-K1 (M20)	–	**SK-CI-K1** 226766		100 off	
–	CI-K1 (M25)	–	**SK-CI-K2** 226767		100 off	

	Dimensions	For use with	Enclosure depth: Dimensions from top 1. Mounting depth for mounting plate 2. Mounting depth	Mounting depth	**Part no.** Article no.	**Price** See price list	Std. pack	**Notes**
	Dimensions mm		Enclosure depth mm	For mounting plate mm				
CI-B, C, D basic enclosures								
• Transparent cover • Metric knockouts top, bottom • With PEN terminal • IP55 individual enclosure with pre-drilled mounting plate								
		DIL00AM		110	**CI-B** 024315		1 off	**L**  Knockouts 2 x M20
		S27		110	**CI-C** 031434		1 off	
		DIL0AM S27		110	**CI-D** 038553		1 off	
PE terminal (fifth conductor)								
Rated operational current 25 A for ∅ 1.5 - 6 mm² solid								
	–	CI-B CI-C CI-D	–	–	**K6/1** 002270		100 off	

Information relevant for export to North America

UL/CSA certification not required

Technical data

		CI-K1	CI-K2	CI-K2...-80-A CI-K2...-80-K	CI-K3	CI-K4	CI-K5
General							
Standards		IEC/EN 60529 DIN 43660 EN 50262					
Climatic proofing		Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30					
Ambient temperature	°C	-25 - 70					
Ambient air temperature with push-through cable entry	°C	-25…40					
Protection type		Front IP65		Front IP30	Front IP65		
		The degree of protection specifications do not apply to CI-K2-80-A					
Protection type with push-through cable entry		IP65		IP30	IP65		
Radiated heat dissipation							
		→ Page 20/101					
Material properties							
Material							
Base, cover		Glass-fibre reinforced polycarbonate					
Surface treatment		Corrosion-resistant					
Color							
Base		RAL 9005, black (matt)					
Cover		Enclosure cover RAL 7035, light grey (matt)					
Material properties							
Electrical							
Creepage resistance to IEC 60112							
Base		CTI 175					
Cover		CTI 175					
Surface treatment to IEC 60093	Ω x 10^{13}	> 1					
Dielectric strength to IEC 60243-1	kV/mm	30					
Thermal							
Continuous thermal stability							
Housing	°C	-40…120					
Sealing	°C	-40…80					
Mechanical							
IK code to EN 50102		04	06	06	06	06	06
Weight of fitted components							
Per mounting rail	kg	0.2	0.7	0.7	0.85	0.75	0.65
With mounting plate	kg	–	–	0.7	0.85	0.9	1
Chemical resistance							
Base, cover							
Resistant		Acids < 10 %, mineral oil, petrol, grease, saline solutions					
Partially resistant		Acids > 10 %, Alcohol					
Non-resistant		Alkalis, benzol					
Push-through membrane (CI-K1/CI-K2) and sealing material							
Resistant		Acids < 10 %, alkalis, alcohol, saline solutions			–	–	–
Partially resistant		Acids < 10 %, grease, benzene			–	–	–
Non-resistant		Mineral oil, petrol			–	–	–
Atmospheric							
Saline spray		IEC 60068-2-11					
UV resistance		Beneath protective canopy					
Water absorption to EN ISO 62	%	0.29					
Flammability characteristics							
Glow-wire test							
Base, cover							
Glow wire to VDE 0471 Part 2	°C	960/1 mm thick					
According to UL 94		V0/1.5 mm thickness					
Push-through membrane (CI-K1/CI-K2) and sealing material							
To VDE 0471 Part 2	°C	650/1 mm thick			–	–	–
According to UL 94		HB			–	–	–
Halogen free		Yes			–	–	–

Notes The degree of protection specifications do not apply to CI-K2-80-A

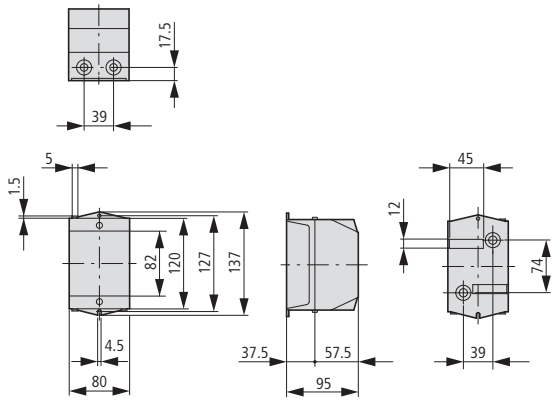
Small enclosures CI-K	CI-K...		
Radiated heat dissipation	**Part no.**	**Dimensions W x H x D mm**	**Heat dissipation W**
Max. radiated heat dissipation of the insulated enclosures CI-K with separate mounting, ambient air temperature +20 °C	CI-K1-95	80 x 137 x 95	10
	CI-K2-100 CI-K2-145	100 x 181 x 100 100 x 181 x 145	12.5 18.5
	CI-K3-125 CI-K3-160	120 x 222 x 125 120 x 222 x 160	21.5 25.5
	CI-K4-125 CI-K4-160	160 x 240 x 125 160 x 240 x 160	26 29.5
	CI-K5-125 CI-K5-160	200 x 280 x 125 200 x 280 x 160	35 41



Dimensions

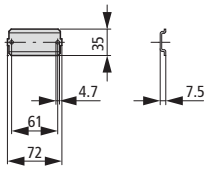
Small insulated material enclosures

CI-K1...-95-TS

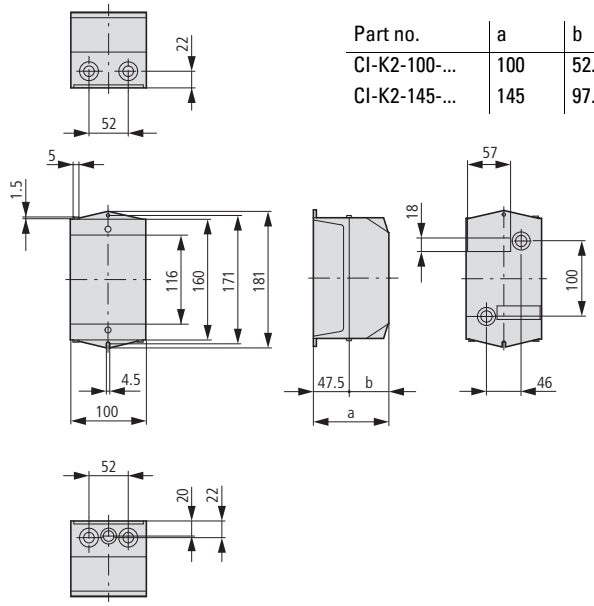


Mounting rails

TS-CI-K1



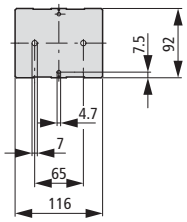
CI-K2-...



Part no.	a	b
CI-K2-100-...	100	52.5
CI-K2-145-...	145	97.5

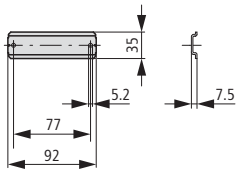
Mounting plates

M-CI-K2

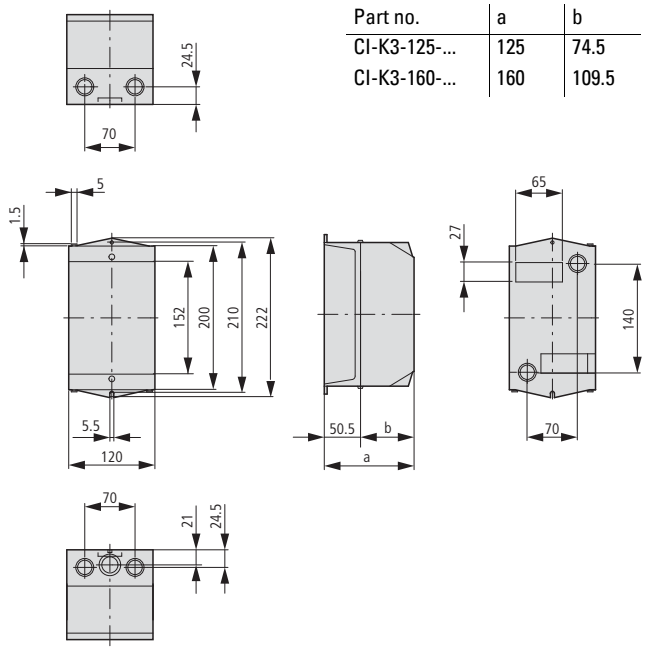


Mounting rails

TS-CI-K2



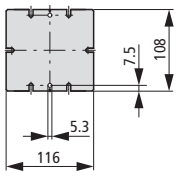
CI-K3-...



Part no.	a	b
CI-K3-125-...	125	74.5
CI-K3-160-...	160	109.5

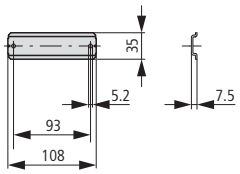
Mounting plates

M-CI-K3



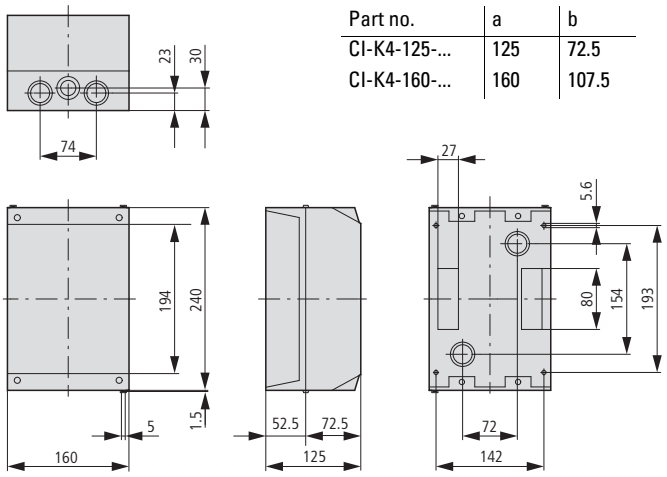
Mounting rails

TS-CI-K3



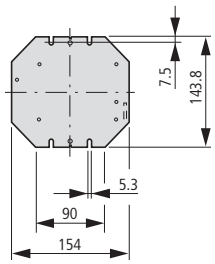
Small insulated material enclosures

CI-K4-...

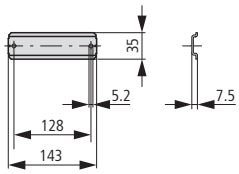


Part no.	a	b
CI-K4-125-...	125	72.5
CI-K4-160-...	160	107.5

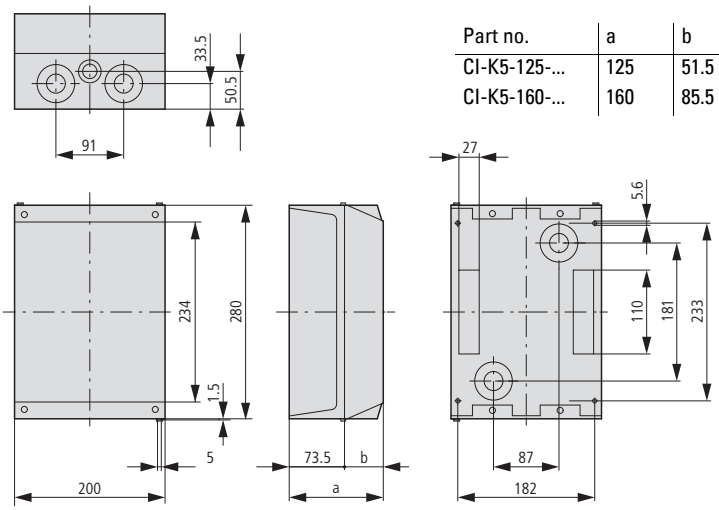
Mounting plates
M-CI-K4



Mounting rails
TS-CI-K4

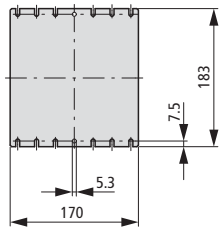


CI-K5-...

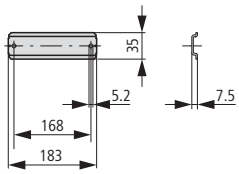


Part no.	a	b
CI-K5-125-...	125	51.5
CI-K5-160-...	160	85.5

Mounting plates
M-CI-K5

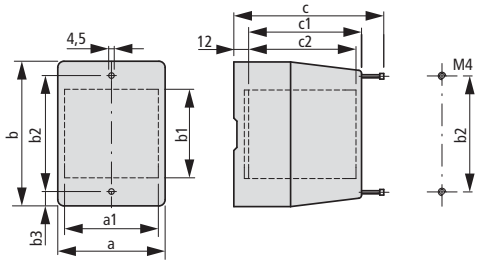


Mounting rails
TS-CI-K5



Basic enclosures

CI-B, CI-C, CI-D



Part no.	a	a1	b	b1	b2	b3	c	c1	c2
CI-B	87	71	149	106	128	10.5	128	115	84.4
CI-C	110	95	165	122	144	10.5	128	115	84.4
CI-D	110	97	222	179	201	10.5	128	115	84.4