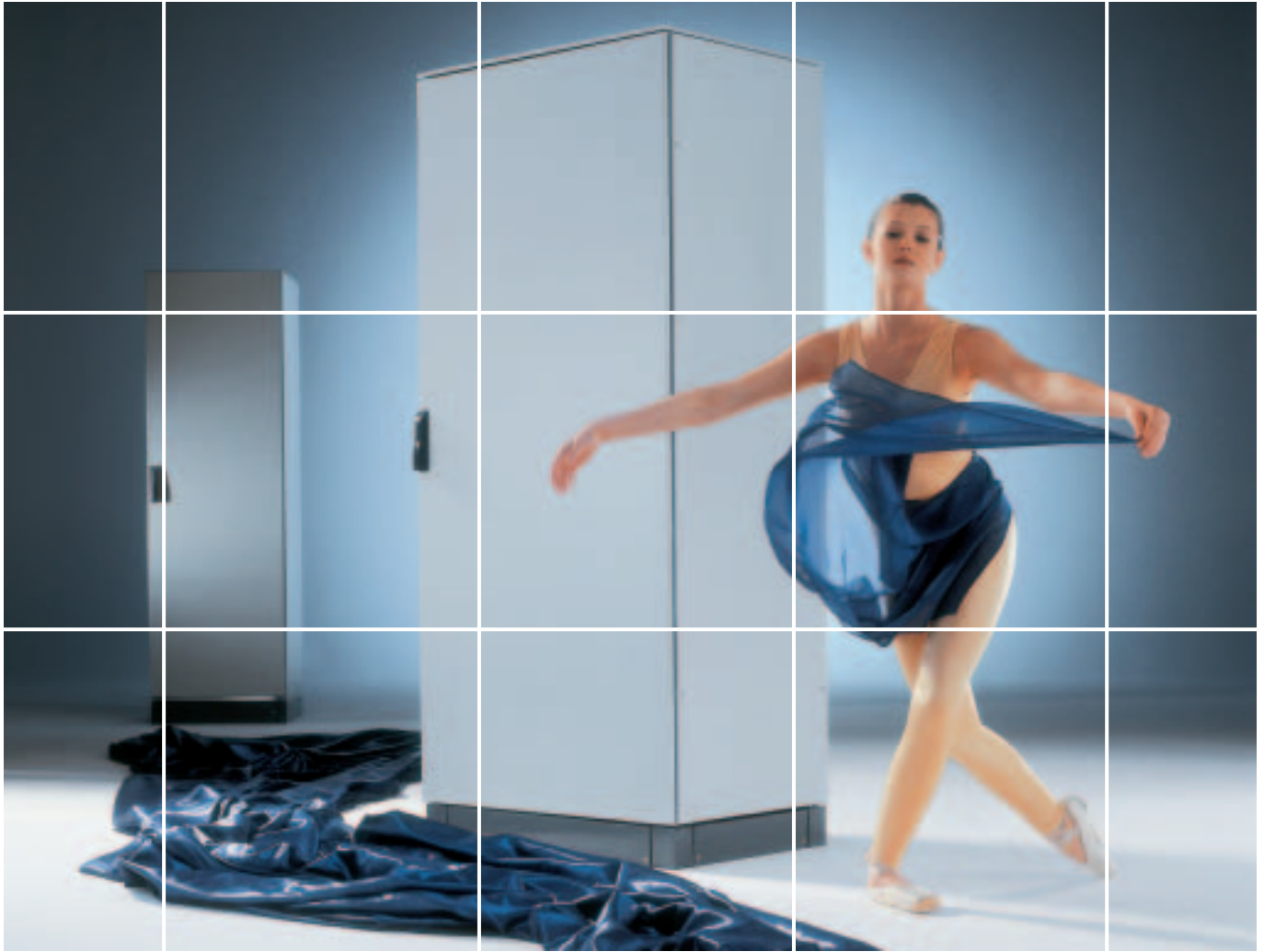




TriLine-R – a strong profile

The future-oriented switchgear cabinet system



- A stable profile form
- Few system parts
- multiple use of many system parts
- new plinth with high stability
- Low installation complexity thanks to perfect technology
- Simple quick reliable mounting of all elements

The TriLine – R system is a future-oriented development, has a modular concept and is equally suited for use without restrictions in all areas of electrical energy transfer and distribution, as well as for control technology.



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Overview of the Striebel & John Product Range

		Rated current I _n (A)	Degree of protection (IPxx)	Protection class I	Protection class II	Flush mounting	Surface mounting	Hollow wall mounting 	DIN components		Cabinet depth (mm)	Colour (RAL)	Mounting plate	Distribution board panels	Combination sets	TKV-Modules	TNF-Modules	TXG-Modules	smisline-S	Panel width 1 (250 mm)	Panel width 2 (500 mm)	Panel width 3 (750 mm)	Panel width 4 (1000 mm)	Panel width 5 (1250 mm)	Panel width 6 (1500 mm)	Overall height 00 / 3 RE (450 mm)	Overall height 0 / 4 RE (600 mm)	Overall height 1 / 5 RE (750 mm)	Overall height 2 / 6 RE (900 mm)	Overall height 3 / 7 RE (1050 mm)	Overall height 4 / 8 RE (1200 mm)	Overall height 5 / 9 RE (1350 mm)	Overall height 8 / 12 RE (1800 mm)	Overall height 10 / 14 RE (2100 mm)					
Product range		I _n (A)	IP						Devices		Depth	RAL	Variations							Dimensions																			
Consumer Units	Consumer Unit (UK500)	63	30						12/56		95	9016																											
	Consumer Unit (A300)	63	30						12/48		110	9016																											
Wall Cabinets	Distribution Board (U)	125	31						48/288		120	9016																											
	Distribution Board (AT/AV)	125	30/43						48/288		140	9016																											
	U - Cabinet	250/355	31						60/540		200	9016																											
	A - Cabinet	250/355	31/43						36/540		215	9016																											
	FS - Cabinet	250/355	54						96/540		225	7035																											
	WS - Cabinet	355	55						144/488		360	7035																											
	B - Cabinet	250/355	43						36/540		215	9016																											
	G - Cabinet	250/355	54						96/540		225	7035																											
	C - Cabinet	355	54						96/540		260	7035																											
	W - Cabinet	355	55						144/480		360	7035																											
Floor Standing Cabinets	FS - Cabinet	355	54						144/720		225	7035																											
	WS - Cabinet	630	55						144/864		360	7035																											
	G - Cabinet	355	54						144/720		225	7035																											
	C - Cabinet	630	54						144/720		260	7035																											
	W - Cabinet	850	55						144/864		360	7035																											
	WA - Cabinet	850	54						144/720		360	7035																											

Striebel & John – Your specialists for electrical distribution systems

Thanks to its innovative products, Striebel & John became, within only a few years of the company being founded in 1958, the renowned manufacturer of electrical distribution systems that it is today.

Right from the outset, Striebel & John put into practice close contacts and intensive exchanges of experience with skilled electricians. This partnership has paid dividends for both ourselves and our customers.

We develop and produce custom electrical distribution systems for all types of buildings – from single family homes to industrial complexes. In all cases we pursue the principle of modularity: The Striebel & John modular system allows highly flexible configuration of building-related distribution board combinations. Practical detailed solutions enable speedy and flexible installation.

Our wide and refined range of products meets all requirements with regard to ease of installation, ease of assembly and user-friendliness.



The Striebel & John training and administration centre.



*For further information,
just call
(0049) (0) 78 41 - 609 - 0*



We supply:

- A full range of cabinets and distribution boards
- A well-conceived configuration and wiring system
- An application-specific software package

ABB Low Voltage Products - the complete solution

ABB is a market leader in low voltage applications. We offer one of the largest ranges of high quality products and systems available from any single supplier, backed up by in-depth application know-how. In putting together its portfolio, ABB has taken care to address not only the core technology but also the systems and services that support customers across the total life cycle. ABB supplies not just electrical distribution board systems but everything that you require for your practical installation work.



ABB Striebel & John Cabinets are designed to allow fast and simple solutions for incorporating ABB Low Voltage Products such as:

Breakers:

air circuit breakers, moulded-case circuit breakers.

Switches and fusegear:

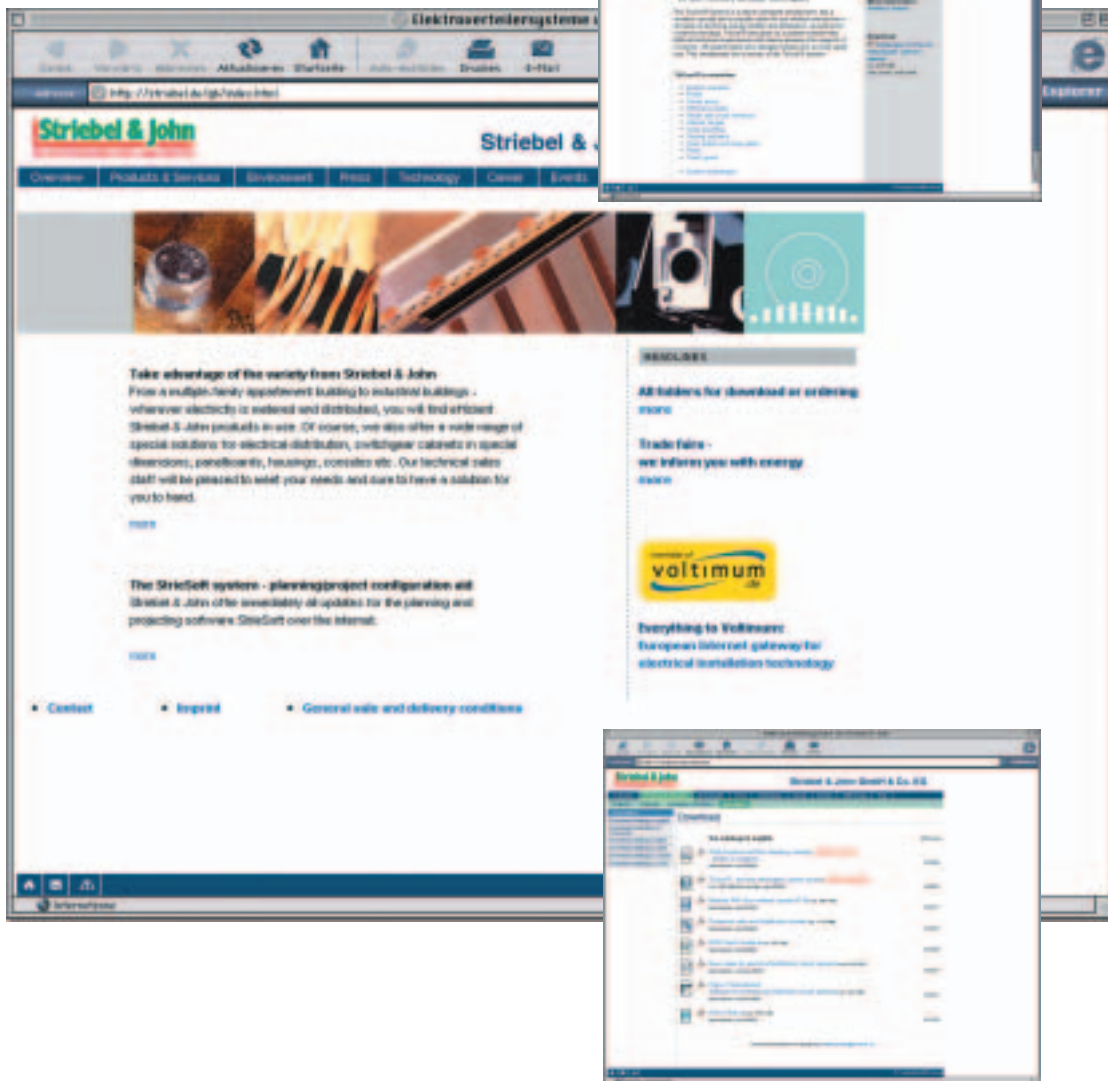
switch fuses, HRC fuse links, fuse bases, fuse switches, switch fuse disconnectors in tier type, fuse monitors.

Line Protection Devices:

modular components and systems with protection, switching, control and measuring functions, accessories for connection and installation, manual motorstarters.

www.striebelundjohn.de

Use the Internet. There you will find valuable and useful information about our products. The current product brochures with the latest technology in the field of electrical distribution board systems are there to download.



Our current product brochures are available to download at www.striebelundjohn.de



Integrated Management System Quality – Environment – Risks

At Striebel & John, quality, environmental protection and risk management take precedence. Our aim is to supply our customers with quality products that are tailored to their needs. To achieve this, we introduced in our company a comprehensive quality management system conforming to DIN EN ISO 9001 and combined it with the Environmental Management, Occupational Safety and Fire Protection Divisions to form the Integrated Management System. Striebel & John is certified in accordance with both ISO 9001 and ISO 14001. We are thereby pursuing our corporate aims:

- Success through satisfied customers
- Quality through motivated staff
- Joint efficiency with reliable partners
- Taking social responsibility and preserving our natural living conditions
- Corporate success through efficient business processes

environmental management based on the internationally recognised standard for environmental management systems, namely DIN EN ISO 14001 that covers the entire industry. The management system helps to improve our products' safety and environmental compatibility. The products are developed, manufactured and inspected in such a way that all safety, environmental and reliability requirements are guaranteed. Customers receive only services which have been proved to fulfil these exacting demands.

ENVIRONMENTAL POLICY is very important at Striebel & John

Our company is situated in one of our region's most attractive landscapes. With this in mind, Striebel & John has always frequently had to deal with environmental matters and has practised



Consumer Units



Distribution Boards

Wall Cabinets

Distribution Board Panels



Consumer Units

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Consumer Units UK500 Series

1-3	Product Features
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Consumer Units A300 Series

1-18	Product Features
1-20	Ordering Information
1-22	Technical Information

Applicable Standards:

DIN VDE 0603 Part1

DIN 43871

IEC 60439-1 (DIN EN 60439-1)



Product Features UK500 Series

Consumer Units – UK500SBE Series

Basic Version without Trim Frame and Door



- IP 30
- 
- 
- 
- $I_N 63A$
- Consumer unit to DIN VDE 0603T1, DIN 43871, DIN EN 60439-1
- Flush-mounting consumer unit with wall grips
- Upgradable for hollow-wall installation using UZ90P4
- Wall box:
 - non-warp, break-proof, non-flammable, "low-halogen" plastic
 - with cable strain-relief comb
 - with detachable cable inlets
- With N/PE busbars and N-RCD terminals according to BGV A2
- Cover with 90° quick-action screws, lead-sealable, 45 mm slots for 12 devices, expandable to 14
- Labelling system

01

Consumer Units – UK500SE Series

Standard Version with Trim Frame and Door



- IP 30
- 
- 
- 
- $I_N 63A$
- Consumer unit to DIN VDE 0603T1, DIN 43871, DIN EN 60439-1
- Flush-mounting consumer unit with wall grips
- Upgradable for hollow-wall installation using UZ90P4
- Wall box:
 - non-warp, break-proof, non-flammable, "low-halogen" plastic
 - with cable strain-relief comb
 - with detachable cable inlets
- With N/PE busbars and N-RCD terminals according to BGV A2
- Cover with 90° quick-action screws, lead-sealable, 45 mm slots for 12 devices, expandable to 14
- Labelling system
- Trim frame and sheet steel door, adjustable for uneven surface, colour: white, RAL 9016

* in connection with hollow-wall set UZ90P4

Product Features UK500 Series

Door "art line" for UK500 Series

Functional and yet elegant – here's a perfect example of how easy it can be to combine these two essentials.

Beautiful and perfectly formed – the „art line“ model with its brushed stainless steel is an embodiment of the design principle based on reducing things right down to the essentials.

The „Art Line“ ennobles the standard UK500 version. „Art Line“ opens the door to a new world of aesthetics in consumer unit design and has already become a classic in its own right.



Product Features UK500 Series

Door "addition line" for UK500 Series

The „addition line“ series of picture frames is quite literally as pretty as a painting. You would never believe that these high-quality ornamental items conceal a technical product.

Whether in brushed aluminium or with an anodised colour, no other solution offers more individuality and flexibility for matching personal taste and décor.



01

Product Features UK500 Series

Door "colour line" for UK500 Series

„Colour line“ gives a splash of colour to the functional and aesthetic lines of the standard trim frame and its door.

The coated versions, available in three colours (Midnight Blue, Anthracite and Bordeaux Red), open up whole new creative possibilities for consumer units.

The tip-in closure is finished in metallic silver.



Product Features UK500 Series

Control Panel for UK500 Series

Thanks to the control panel, the UK 500 Series consumer units offer that bit more.

Monitoring and operation of building functions, such as the control of lighting systems, is taken care of by the control panel in a way that's both easy-to-view and decorative.

The use of standard UK 500 components offers benefits as well as it ensuring quick product availability.

The standard finish includes a robust aluminium frame with an inlaid anodised aluminium plate and a safety lock.

The control panel is available in three versions (external dimensions in mm):

FPT510	362 H x 374 B x 22 T
FPT520	487 H x 374 B x 22 T
FPT530	612 H x 374 B x 22 T

The control panel can be finished by the user or supplied already wired and printed by the factory.



Product Features UK500 Series

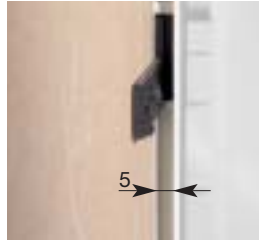


*Professional cable entry in the wall box. Single-hand-only cable inlet operation.
Cable strain-relief comb.*

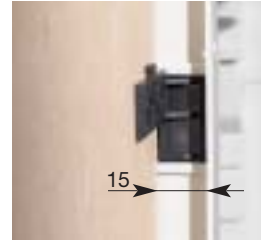
Installation – uncompromisingly simple, quick and well thought-out.

The wall grips, included as standard, have a dual purpose. On the one hand, they reduce depth of mounting in two additional steps. On the other, they can be used as spacers where several consumer units are to be placed side by side.

The removable cable inlet allows easy insertion of incoming and outgoing cables and uses a quick, singlehand-operated push-and-stay design. Both cable inlets can be screwed tight when installation is complete.

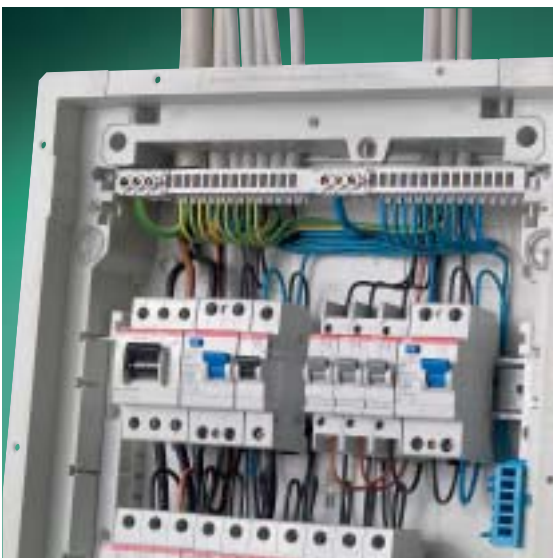


Two insert depths – simply invert the wall grips



Wall grips vary the flush mounting depth.

Simple Push-and-Stay Technology and all-round Ease of Installation.



The wall box is non-warp, non-breakable and non-flammable. It offers a large wiring space. The strain-relief comb for neat cabling is an integral part of the wall box.

There are ample further pre-formed cable entry points on the sides and back of the wall box.

The device support can be snapped in and is installed quickly without tools. Here too, a variety of common installation techniques have been catered for – the device support can also be fixed in position using screws. The DIN rail is double-insulated as standard in all variants.

Product Features UK500 Series



The N/PE Quick busbars and the N-RCD terminal (included with the unit) are of the plug-in variety. If required, the N-RCD terminal, can also be attached to the DIN rail and will not twist. All clips are protected according to BGV A2, the German statutory standard, against inadvertent hand-contact (finger proof).

If required, the slots in the cover can be extended from 12 to accommodate 14 devices. The cover is fixed into position by two 90° quick-action locking screws which can be sealed.

Trim frame and door are easy to remove. Adjustable for uneven surfaces, sealable cover with 90° quick-action locking screws.

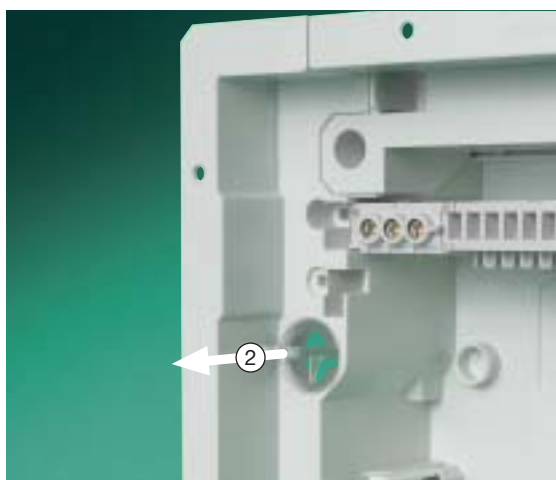
01

The Quickest Way for Hollow wall Mounting



All UK500 Series consumer units are suitable for hollow-wall installation. To do this, you only require the UZ90P4 hollow wall set. No special hollow wall consumer unit is required. Upgrading is incredibly simple – just as easy as the hollow wall installation itself.

No screws, nothing can slip. Fastening it is as easy as fastening cable binders. The hollow wall set can also be released again if needed. The pull-strap will be twisted off after completion of work.



*left picture:
UZ 90P4 hollow wall
set
1. Turn
2. Pull – done*

hollow-wall installation

*The hollow-wall set is
placed inside the consumer
unit
① Turn the tab to put the
wall grip into position –
② then just pull – and it's
done.*

Product Features - UK500 Series

How to order

- 1. The Basic version without trim frame and door**
(Wall box with device support, removable DIN rails, cover, N/PE terminals, N/RCD terminals, wall grips, labelling system).



Possible Choices

- or **2. The standard version with trim frame and door**
(Wall box with device support, removable DIN rails, cover, N/PE terminals, N/RCD terminals, wall grips, labelling system).



- 3. Control panel**
Aluminium control panel unprinted and not wired.
(Wall box with device support without N/PE-terminals with safety lock).



- 4. Hollow wall installation set**

All consumer units designed and prepared for hollow wall installation!
Wall boxes can be fitted with the UZ 90P4 hollow wall set and are then ready for hollow wall installation.



Product Features - UK500 Series

How to order

01

Standard door
white



art line
brushed stainless steel



Addition line
brushed aluminium



topaz



white



colour line
bordeaux red-metallic



anthrazite-metallic



midnight blue-metallic



Transparent door



➔ Technical details see page 1-16

Ordering Information - UK500 Series

UK500 – Flush-Mounting Consumer Unit

Standard Version with Trim Frame and Door



Devices	12 (14) ³⁾	24 (28)	36 (42) ³⁾	48 (56)
Rows	1	2	3	4
Type (Standard metal door)	UK 510SE	UK 520SE	UK 530SE	UK 540SE
Niche dimensions HxWxD (mm) ¹⁾	335 x 350 x 95	460 x 350 x 95	585 x 350 x 95	710 x 350 x 95
Wall cut out-dimensions HxWxD (mm) ²⁾	308 x 327 x 88	433 x 327 x 88	558 x 327 x 88	683 x 327 x 88
With plug-in N+PE Terminals				
Order no.	77701	77702	77703	77704
Type (with transparent door)	UK 510STE	UK 520STE	UK 530STE	UK 540STE
With plug-in N+PE Terminals				
Order no.	77721	77722	77723	77724
Type (with special grand plate for conduits)	UK 510SIE	UK 520SIE	UK 530SIE	UK 540SIE
With plug-in N+PE Terminals				
Order no.	77725	77726	77727	77728
Type (with screwable N+PE terminals)	UK 510E	UK 520E	UK 530E	UK 540E
Order no.	77600	77601	77602	77603

UK500B Basic Version without Trim Frame and Door (Please choose your door separately. See next page)



Devices	12 (14) ³⁾	24 (28)	36 (42) ³⁾	48 (56)
Rows	1	2	3	4
Type (without door)	UK 510SBE	UK 520SBE	UK 530SBE	UK 540SBE
Niche dimensions HxWxD (mm) ¹⁾	335 x 350 x 95	460 x 350 x 95	585 x 350 x 95	710 x 350 x 95
Wall cut out-dimensions HxWxD (mm) ²⁾	308 x 327 x 88	433 x 327 x 88	558 x 327 x 88	683 x 327 x 88
With plug-in N+PE Terminals				
Order no.	77705	77706	77707	77708
Type (with screwable N+PE terminals)	UK 510BE	UK 520BE	UK 530BE	UK 540BE
Order no.	77619	77620	77621	77622

The Control Panel

Control panel
(on request: printed and
wired to your requirements)



Type	order no.	Trim Frame Internal Dimensions H x W (mm)	Trim Frame External Dimensions H x W(mm)
FPT 510	30825	282 x 297	362 x 374
FPT 520	30826	407 x 297	487 x 374
FPT 530	30827	532 x 297	612 x 374

¹⁾ Dimensions for flush mounting

²⁾ Dimensions for hollow wall mounting

³⁾ It is not possible to mount an additional device behind the door handle

Ordering Information - UK500 Series

Trim Frame and Door Versions

standard

brushed stainless steel

brushed aluminium

topaz

white



trim frame with door

art line

addition line

addition line

addition line

Type

Fits
Trim Frame Internal Dimensions HxWxD (mm) 282 x 297 x 33
Trim Frame External Dimensions HxWxD (mm) 352 x 367 x 9
Order no. 30853

BL 510[®]

UK 510 B

Type

Fits
Trim Frame Internal Dimensions HxWxD (mm) 407 x 297 x 33
Trim Frame External Dimensions HxWxD (mm) 477 x 367 x 9
Order no. 30854

BL 520

UK 520 SBE

BL 522 D

UK 520 SBE

407 x 297 x 33

490 x 407 x 49

30900

BL 521 D

UK 520 SBE

402 x 293 x 21

487 x 378 x 33

30858

BL 526 D

UK 520 SBE

411 x 302 x 17

487 x 378 x 33

30902

BL 527 D

UK 520 SBE

407 x 297 x 33

496 x 374 x 19

30897

Type

Fits
Trim Frame Internal Dimensions HxWxD (mm) 532 x 297 x 33
Trim Frame External Dimensions HxWxD (mm) 602 x 367 x 9
Order no. 30855

BL 530[®]

UK 530 SBE

BL 532 D[®]

UK 530 SBE

532 x 297 x 33

615 x 407 x 49

30901

BL 531 D[®]

UK 530 SBE

527 x 293 x 21

612 x 378 x 33

30859

BL 536 D[®]

UK 530 SBE

530 x 302 x 17

612 x 378 x 33

30903

BL 537 D[®]

UK 530 SBE

532 x 297 x 33

621 x 374 x 19

30898

Type

Fits
Trim Frame Internal Dimensions HxWxD (mm) 657 x 297 x 33
Trim Frame External Dimensions HxWxD (mm) 727 x 367 x 9
Order no. 30856

BL 540

UK 540 SBE

bordeaux red metallic

anthracite metallic

midnight blue metallic

transparent door



colour line

colour line

colour line

transparent door

Type

Fits
Trim Frame Internal Dimensions HxWxD (mm) 282 x 297 x 33
Trim Frame External Dimensions HxWxD (mm) 352 x 367 x 9

BL 513 D[®]

UK 510 SBE

BL 514 D[®]

UK 510 SBE

282 x 297 x 33

352 x 367 x 9

BL 515 D[®]

UK 510 SBE

282 x 297 x 33

352 x 367 x 9

BL 510 T[®]

UK 510 SBE

282 x 297 x 33

352 x 367 x 9

Order no.

30904

30908

30912

30861

Type

Fits
Trim Frame Internal Dimensions HxWxD (mm) 407 x 297 x 33
Trim Frame External Dimensions HxWxD (mm) 477 x 367 x 9

BL 523 D

UK 520 SBE

BL 524 D

UK 520 SBE

407 x 297 x 33

477 x 367 x 9

BL 525 D

UK 520 SBE

407 x 297 x 33

477 x 367 x 9

BL 520 T

UK 520 SBE

407 x 297 x 33

477 x 367 x 9

Order no.

30905

30909

30913

30862

Type

Fits
Trim Frame Internal Dimensions HxWxD (mm) 532 x 297 x 33
Trim Frame External Dimensions HxWxD (mm) 602 x 367 x 9

BL 533 D[®]

UK 530 SBE

BL 534 D[®]

UK 530 SBE

532 x 297 x 33

602 x 367 x 9

BL 535 D[®]

UK 530 SBE

532 x 297 x 33

602 x 367 x 9

BL 530 T[®]

UK 530 SBE

532 x 297 x 33

602 x 367 x 9

Order no.

30906

30910

30914

30863

Type

Fits
Trim Frame Internal Dimensions HxWxD (mm) 657 x 297 x 33
Trim Frame External Dimensions HxWxD (mm) 727 x 367 x 9
Order no. 30907

BL 543 D

UK 540 SBE

BL 544 D

UK 540 SBE

657 x 297 x 33

727 x 367 x 9

30911

BL 545 D

UK 540 SBE

657 x 297 x 33

727 x 367 x 9

30915

BL 540 T

UK 540 SBE

657 x 297 x 33

727 x 367 x 9

30864

¹ Other door variants available on request.

² Other RAL colours available on request.

³ It is not possible to mount an additional device behind the door handle

Ordering information - UK500 Series

Accessories and Replacement Parts

	Accessories and Replacement Parts			
	Part	Fits	Ord.No.	Type
	Door hinge		30917	UZ7
	Wall box	UK 510E	30805	UZM510
		UK 520E	30806	UZM520
		UK 530E	30807	UZM530
		UK 540E	30808	UZM540
	Wall grips 2 pcs.		62447	UZ4P2
	DIN rail Device support	UK 510E	30841	UZ510G
		UK 520E	30842	UZ520G
		UK 530E	30843	UZ530G
		UK 540E	30844	UZ540G
	Cover with 90° quick action screws	ABB Logo UK 510SE	77615	UZ510AE
		ABB Logo UK 520SE	77616	UZ520AE
		ABB Logo UK 530SE	77618	UZ530AE
		ABB Logo UK 540SE	77619	UZ540AE
		Striebel & John Logo UK 510S	30845	UZ510A
		Striebel & John Logo UK 510S	30846	UZ520A
		Striebel & John Logo UK 510S	30847	UZ530A
		Striebel & John Logo UK 510S	30848	UZ540A
	Hollow wall set to modify the flush-mounting consumer unit into a hollow wall consumer unit (type label and 20 cable ties included). Wall thickness: min. 8 mm, max. 35 mm		62563	UZ90P4
	On-wall mounting set for wall-mounting or part-recessed installation	UK 510	30849	AP510
		UK 520	30850	AP520
		UK 530	30851	AP530
		UK 540	30852	AP540
	N-Quick busbars 6 x 16 mm ² screwable, 21 x 1,5-4 mm ² plugable		30958	ZK516
	PE-Quick busbars 6 x 16 mm ² screwable, 21 x 1,5-4 mm ² plugable		30957	ZK515
	N/PE-Quick busbars each 3 x 16 mm ² screwable, each 14 x 1,5-4 mm ² plugable		30956	ZK514
	N/PE-Terminals each 3 x 16 mm ² + 14 x 4 mm ² screwable		32887	ZK502
	N-Terminals each 5 x 16 mm ² + 19 x 10 mm ² screwable		30890	ZK505
	PE-Terminals each 5 x 16 mm ² + 19 x 10 mm ² screwable		30891	ZK506

Ordering information - UK500 Series

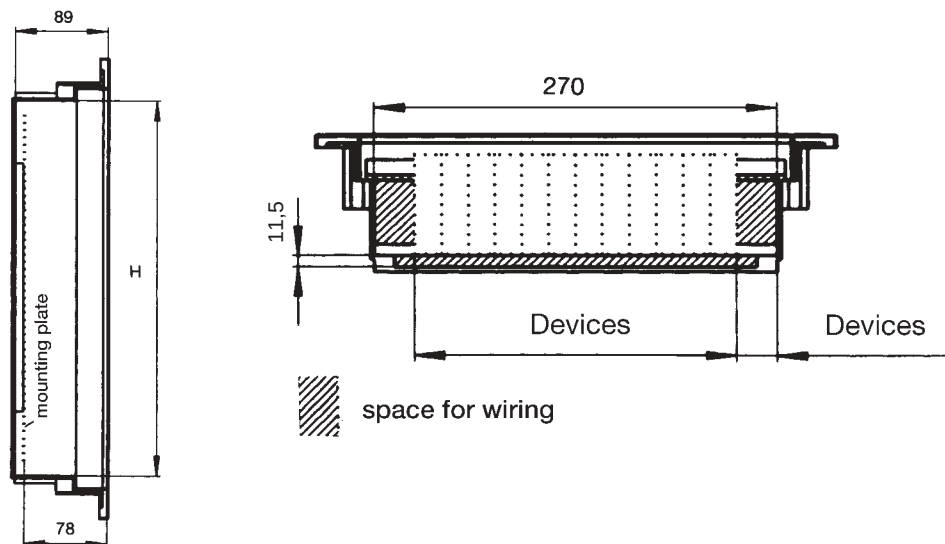
Accessories and Replacement Parts

	Part	Fits	Ord.No.	Type
	N-RCD-terminals 6 x 1,5-4 mm ² plugable,		38505	ZK522
	N-RC D-terminals 3 x 16 mm ² + 2 x 10 mm ² screwable,		38892	ZK507
	Labelling system Self-adhesive, for identifying circuits		30882	UZ3
	Screws 20 pcs. for fixing DIN rails and mounting plates,		62376	ZA89P20
	Mounting plate galvanised sheet steel, including screws for mounting in. wall box	UK 510	30872	UZ510M
		UK 520	30873	UZ520M
		UK 530	30874	UZ530M
		UK 540	30875	UZ540M
	TIP-in closure colour white		30885	UZ2
	colour metallic silver		30916	UZ6
	Safety lock with 2 keys		30870	UZ1
	N/PE terminal 6 -35 mm ²		64795	ZK195
	Slot cover 5 pcs. white		62385	ZA3P5
	Cable inlet for wall box top or bottom		30871	UZ5
	Vertical partition	1-row	30878	UZ51
		2-row	30879	UZ52
		3-row	30880	UZ53
		4-row	30881	U54
	Horizontal partition		30877	UZ84

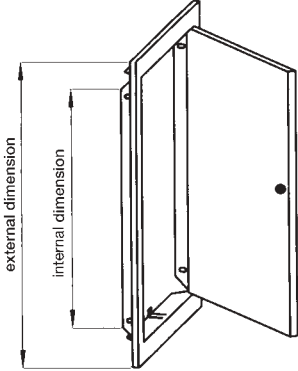
01

Technical Information - UK500 Series

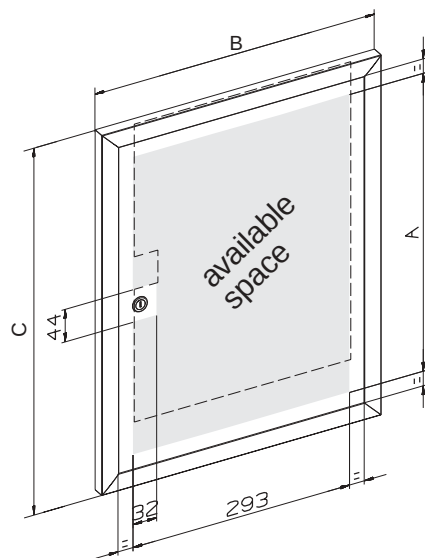
Wall box



Type	H
UK510S	250
UK520S	375
UK530S	500
UK540S	625

	Heights (H) mm	Trim frame height x width (mm)	
		Internal dimensions	External dimensions
Trim Frame Dimensions: 	250	282 x 297	352 x 367
	375	407 x 297	477 x 367
	500	532 x 297	602 x 367
	625	657 x 297	727 x 367

Technical Information - UK500 Series



Type	A	B	C
FPT510	278	374	362
FPT520	403	374	487
FPT530	528	374	612

01

Power Loss and Weight Series UK500

Type	Weight	Power Loss
UK 510SE	1,5	16 w
UK 520SE	1,9	19 w
UK 530SE	2,3	24 w
UK 540SE	2,7	27 w
UK 510SBE	1.2	16 w
UK 520SBE	1.6	19 w
UK 530SBE	2.1	24 w
UK 540SBE	2.4	27 w

Power loss, flush mounting
consumer unit
UK 500 as per DIN 43871
at ambient temperature
max. 25°C



Product Features A300 Series



- VDE 0603T1
- DIN 43871
- 
- Degree of protection IP30
- Protection class II 
- Detachable device carrier
- With N/PE Quick busbars according to BGV A2
- Separate N/RCD terminal (two or more rows)
- Colour RAL 9016
- Standard: Without door
- Metal or transparent door, can be ordered separately

01

Quick, Easy, Safe - the Hood-Type Consumer Unit A300

The A 300 by Striebel & John is well known by those who modernise and renovate old buildings. This practical and versatile hood type consumer unit is ideally suited for surface assembly. It is not only quick and easy to assemble, but the timeless design ensures that it also fits harmoniously into any environment.

The basic casing with the one-piece rear wall is made of robust plastic and is a very durable. Thanks to the freely positionable N-RCD terminal block, pre-painted lead-in for cable conduits, comfortable expansion to the top, bottom or sides, the A 300 is extremely easy to install. The enlarged upper connection space on the 2, 3 and

4-row models, as well as the time-saving snap-in device support, make work on the consumer unit even easier and more comfortable.

Specially designed accessories and spare parts guarantee that the A 300 will be a flexible and reliable partner for the renovation and modernisation of old buildings as well as new premises.

Ordering information A300 Series



Devices	12	24	36	48
Rows	1-row	2-row	3-row	4-row
Type	A 310SE	A 320SE	A 330SE	A 340SE
Size HxWxD (mm)	245x295x110	385x295x110	510x295x110	635x295x110
Order no.	77711	77712	77713	77714
Metal door	A 368	A 369	A 370	A 371
Order no.	31631	31632	31633	31634
Transparent door	A 360	A 361	A 362	A 363
Order no.	31635	31636	31637	31638

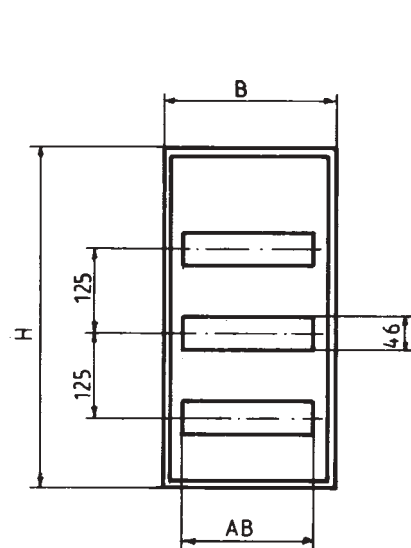
Ordering information A300 Series

Accessories and Replacement Parts

	Part	Fits	Ord. No.	Type
	Cable strain relief comb with cable ties		38483	ZA 300
	Connecting parts (10 pcs.)		62383	ZA 375P10
	N-terminal 6 x 16 mm ² screwable, 21 x 1,5-4 mm ² plugable		38504	ZK 521
	PE-terminal 6 x 16 mm ² screwable, 21 x 1,5-4 mm ² plugable		38503	ZK 520
	N/PE Quick busbars each 3 x 16 mm ² screwable, each 11 x 1,5-4 mm ² plugable		38502	ZK 519
	N-RCD-terminals 6 x 1,5-4 mm ² plugable		38505	ZK 522
	TIP-in-closure Colour white		30885	UZ 2
	Safety lock with two keys		30870	UZ 1
	N/PE terminal 6 -35 mm ²		64795	ZK 195
	Slot cover (5 pcs.) White Ral 9016		62385	ZA 3P5

01

Technical Information - A300 Series



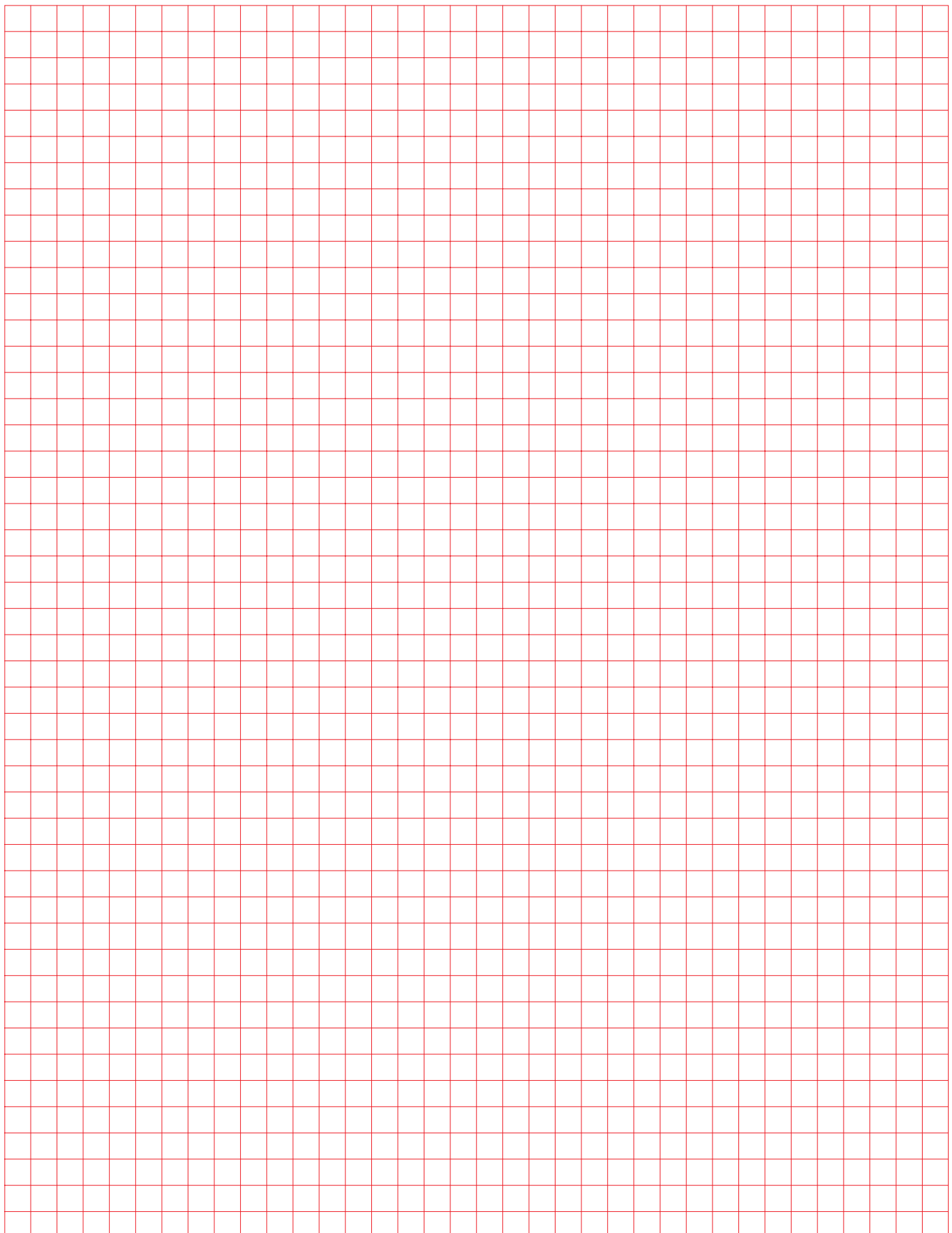
Type	H
A310S	250
A320S	375
A330S	500
A340S	625

Power Loss and Weight Series A300

Type	Weight	Power Loss
A 310SE	1,2	21 w
A 320SE	1,8	26 w
A 330SE	2,3	28 w
A 340SE	2,8	34 w

Power loss, hood-type
consumer unit
A 300 as per DIN 43871
at ambient temperature
max. 25°C

For your own Notes



01

Consumer Units

Distribution Boards

Wall Cabinets

Distribution Board Panels



Distribution Boards AT/U Series

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Product Features

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Ordering Information

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2-16 Distribution Board Panel
2-18 Accessories for AT/U Series

Technical Information

2-27 Empty Distribution Board
2-28 U Series
2-29 AT/AV Series

Applicable Standard:

IEC 60439-1 (DIN EN 60439-1)



Product Features - AT/U Series

Equipped Distribution Boards 125 mm or 150 mm Distance Between Rows



- IEC 60439-1
- DIN 43870
- I_n 125A
- Degree of protection indicated for individual types
- The installed distribution panels can be removed for equipping and wiring
- The covers of U- and AT- distribution boards are of polystyrene
- Panels without devices
- 125 mm or 150 mm row distance
- With steel or transparent door
- Doors and housing of 1 mm sheet steel/polycarbonate
- 3 more panels wide: double-wing metal doors
- Colour: RAL 9016 (standard)
- Hollow wall-mounting set for flush-mounting versions (Accessory)
- With cable strain relief
- With one membrane flange per panel width on top (AT)
- With labelling system

02

Empty Distribution Boards



- IEC 60439-1
- DIN 43870,
- I_n 125A
- The empty housings are custom fitted Ex-factory with selected TKV module system boards.
- Degree of protection indicated for individual types
- The installed distribution panels can be removed for equipping and wiring
- The covers in U- and AT- distribution boards are of polystyrene
- Panels with or without devices
- 125 mm row distance (150 mm on demand)
- Without N/PE Quick busbars
- Doors and housing of 1 mm sheet steel
- 3 more panels wide: double-wing metal doors
- Colour: RAL 9016 (standard)
- Hollow wall-mounting set for flush-mounting versions (Accessory)
- With cable strain relief
- With one membrane flange per panel width on top (AT)
- With labelling system

Product Features - AT/U Series

The new transparent door for the AT/U Series.

The new transparent door is based on Striebel & John's proven standard metal door. The main advantages are the high degree of protection, IP 43 and the possibility to install any standard lock supplied by Striebel & John. The color of the door frame is matched to the cabinet so that any color is available on request. The transparent polycarbonate pane allows a generous view of the cabinet interior.

The distribution board is available as a complete cabinet with transparent door or as an accessory.

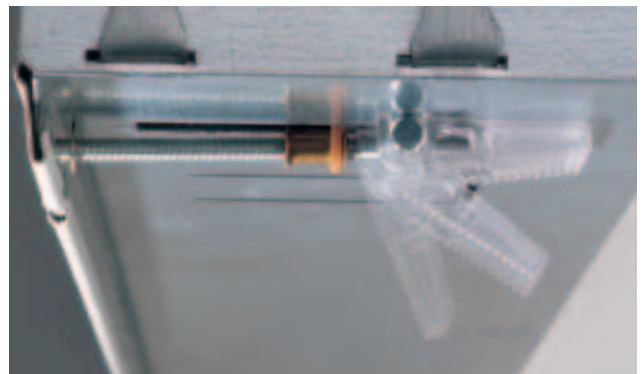


Unique – the Flexibility and Speed of Hollow Wall Mounting

All flush-mounting distribution boards can be installed in the hollow wall with only a few moves using the hollow wall sets offered as accessories.

This new technique offered by Striebel & John corresponds to the method of function of the proven UK 500 consumer unit.

Besides the electrical installer, the wholesaler also profits from this well thought-out solution, as he no longer needs to keep two separate cabinets on stock but is able to supply one cabinet for two applications.



Insert the cavity wall-mounting set ZKV 200P4, fix it - ready

Perfection to Detail

The wall-mounting distribution board offers the possibility of cable entry on the top, at the bottom and from the back. All wall-mounting distribution boards are equipped with one integrated flush fitting membrane flange per panel width on top. This enables quick and easy installation and improves the appearance.

A further standard feature per panel width is the cable strain relief on the top and the bottom, which considerably simplifies the installation for every wall-mounting and flush-mounting type.

Depending on the version, the user-friendly snap-in type N/PE Quick busbars are also standard.



Control panel



«addition line»-picture frame

Convincing Design

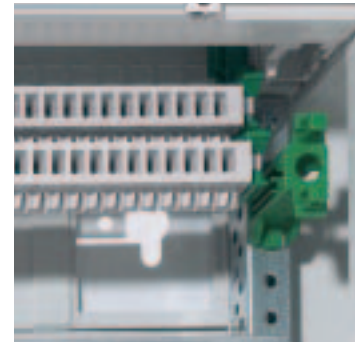
With its slightly inclined sides, the bright white cabinet and the attractive locking system, the distribution board sets new standards in design.

Furthermore, only Striebel & John offers an alternative picture frame for the two-panel-wide and four-row-high cabinets – an extension of the well-known UK500 "addition line".

Control panels which can be supplied to be finished and wired by the user, or which are printed and wired according to the user's requirements, are also available for commercial and industrial buildings.



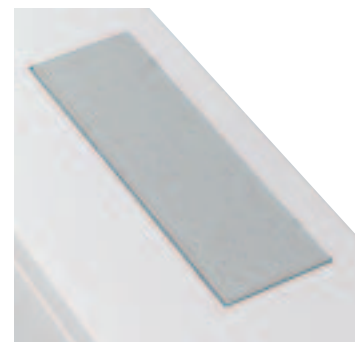
Integrated cable strain relief, spacious wall mounting



Easy to handle – the snap-in system for the N/PE Quick busbars



Slightly inclining sides – elegance and attractive design



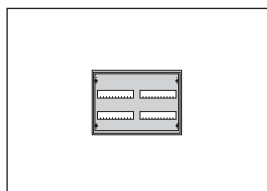
Standard equipment – membrane flange on top

Ordering Information - AT/U Series

Equipped Distribution Boards 125 mm

Distance Between Rows

2-row



Devices

48

AT Wall-mounting with door IP 43

AT 22 E

(standard metal door)

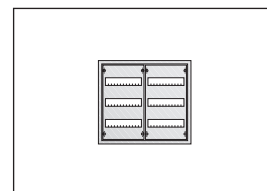
External dimensions H x W x D (mm)

374 x 574 x 140

Order no.

71740

3-row



Devices

72

U Flush-mounting with door IP 31

U 32

(standard metal door)

Niche dimensions mm H x W x D (mm)

534 x 560 x 120

Trim frame external dimensions (mm)

544 x 604 x 27

Order no.

30100

with transparent door

U 32 TE

Order no.

71591

AT Wall-mounting with door IP 43

AT 32

External dimensions mm H x W x D (mm)

524 x 574 x 140

Order no.

30120

with transparent door

AT 32 TE

Order no.

71584

4-row



Devices

96

U Flush-mounting with Trim frame

U 42 D

and picture frame (IP31)

brushed aluminium

Niche dimensions H x W x D (mm)

700 x 575 x 120

Picture frame external dimensions (mm)

716 x 625 x 25

Order no.

38152

4-row



Devices

96

U Flush-mounting with

U 42 FPT

Control panel IP 31 (aluminium)

not printed, not wired

with DIN-Rails but without

cover and N/PE terminals

Niche dimensions H x W x D (mm)

700 x 575 x 120

Control Panel frame

external dimensions (mm)

716 x 625 x 25

Usable area H x W (mm)

600 x 468

Order no.

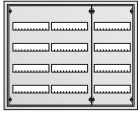
38151

Ordering Information - AT/U Series

Equipped Distribution Boards 125 mm

Distance Between Rows

4-row

					
Devices	48	96	96	48 (96)	144
U Flush-mounting with door IP 31 (standard metal door)	U 41	U 42	U 42/2	U 42 M	U 43
Niche dimensions mm H x W x D (mm)	684 x 310 x 120	684 x 560 x 120	684 x 560 x 120	684 x 560 x 120	684 x 810 x 120
Trim frame external dimensions (mm)	694 x 354 x 27	694 x 604 x 27	694 x 604 x 27	694 x 604 x 27	694 x 854 x 27
Order no.	30101	30102	30118	30146	30103
with transparent door	U 41 TE	U 42 TE			
Order no.	71592	71593			
AT Wall-mounting with door IP 43	AT 41	AT 42	AT 42/2	AT 42 M	AT 43
External dimensions mm H x W x D (mm)	674 x 324 x 140	674 x 574 x 140	674 x 574 x 140	674 x 574 x 140	674 x 824 x 140
Order no.	30121	30122	30138	30148	30123
with transparent door	AT 41 TE	AT 42 TE			
Order no.	71585	71586			
AV Wall-mounting without door IP 30	AV 41	AV 42			
External dimensions mm H x W x D (mm)	674 x 324 x 140	674 x 574 x 140			
Order no.	30140	30141			

5-row

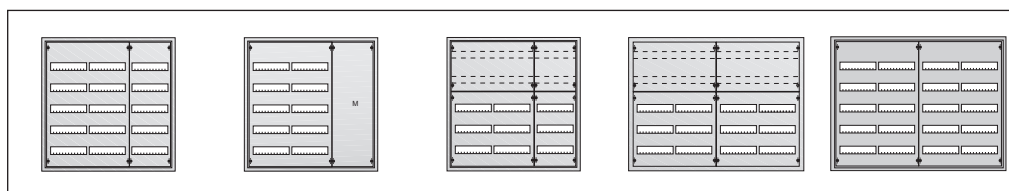
				
Devices	60	120	120	72 (120)
U Flush-mounting with door IP 31 (standard metal door)	U 51	U 52	U 52/2	U 52 K
Niche dimensions H x W x D (mm)	834 x 310 x 120	834 x 560 x 120	834 x 560 x 120	834 x 560 x 120
Trim frame external dimensions (mm)	844 x 354 x 27	844 x 604 x 27	844 x 604 x 27	844 x 604 x 27
Order no.	30104	30105	30119	30106
with transparent door	U 51 TE	U 52 TE		
Order no.	71594	71595		
AT Wall-mounting with door IP 43	AT 51	AT 52	AT 52/2	AT 52 K
External dimensions H x W x D (mm)	824 x 324 x 140	824 x 574 x 140	824 x 574 x 140	824 x 574 x 140
Order no.	30124	30125	30139	30126
with transparent door	AT 51 TE	AT 52 TE		
Order no.	71587	71588		
AV Wall-mounting without door IP 30	AV 51	AV 52		
External dimensions H x W x D (mm)	824 x 324 x 140	824 x 574 x 140		
Order no.	30142	30143		

Ordering Information - AT/U Series

Equipped Distribution Boards 125 mm

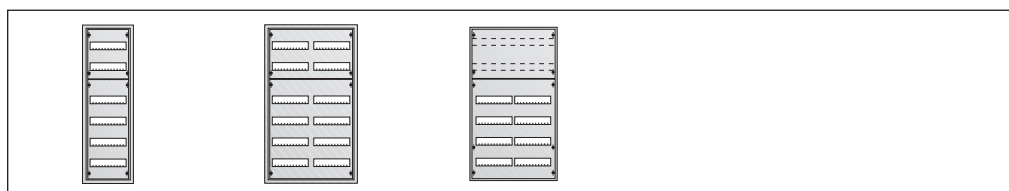
Distance Between Rows

5-row



Devices	180	120 (180)	108 (180)	144 (240)	240
U Flush-mounting with door IP 31 (standard metal door)	U 53	U 53 M	U 53 K	U 54 K	U 54 E
Niche dimensions H x W x D (mm)	834 x 810 x 120	834 x 810 x 120	834 x 810 x 120	834 x 1060 x 120	834 x 1060 x 120
Trim frame external dimensions (mm)	844 x 854 x 27	844 x 854 x 27	844 x 854 x 27	844 x 1104 x 27	844 x 1104 x 27
Order no.	30107	30147	30108	30109	71784
AT Wall-mounting with door IP 43	AT 53	AT 53 M	AT 53 K	AT 54 K	AT 54 E
External dimensions H x W x D (mm)	824 x 824 x 140	824 x 824 x 140	824 x 824 x 140	824 x 1074 x 140	834 x 1074 x 140
Order no.	30127	30149	30128	30129	71748
AV Wall-mounting without door IP 30	AV 53				
External dimensions H x W x D (mm)	824 x 824 x 140				
Order no.	30144				

6-row



Devices	72	144	96 (144)
U Flush-mounting with door IP 31 (standard metal door)	U 61	U 62	U 62 K
Niche dimensions H x W x D (mm)	984 x 310 x 120	984 x 560 x 120	984 x 560 x 120
Trim frame external dimensions (mm)	994 x 354 x 27	994 x 604 x 27	994 x 604 x 27
Order no.	30110	30111	30112
with transparent door	U 61 TE	U 62 TE	
Order no.	71596	71597	
AT Wall-mounting with door IP 43	AT 61	AT 62	AT 62 K
External dimensions H x W x D (mm)	974 x 324 x 140	974 x 574 x 140	974 x 574 x 140
Order no.	30130	30131	30132
with transparent door	AT 61 TE	AT 62 TE	
Order no.	71589	71590	
AV Wall-mounting without door IP 30	AV 61		
External dimensions H x W x D (mm)	974 x 324 x 140		
Order no.	30145		

Ordering Information - AT/U Series

Equipped Distribution Boards 125 mm

Distance Between Rows

6-row

Devices	216	144 (216)	192 (288)
U Flush-mounting with door IP 31 (standard metal door)	U 63 E	U 63 K	U 64 K
Niche dimensions H x W x D (mm)	984 x 810 x 120	984 x 810 x 120	984 x 1060 x 120
Trim frame external dimensions (mm)	994 x 854 x 27	994 x 854 x 27	994 x 1104 x 27
Order no.	71787	30113	30117
AT Wall-mounting with door IP 43	AT 63 E	AT 63 K	AT 64 K
External dimensions H x W x D (mm)	974 x 824 x 140	974 x 824 x 140	974 x 1074 x 140
Order no.	71751	30133	30137

02

7-row

Devices	168	96 (168)	144 (252)
U Flush-mounting with door IP 31 (standard metal door)	U 72	U 72 K	U 73 K
Niche dimensions H x W x D (mm)	1134 x 560 x 120	1134 x 560 x 120	1134 x 810 x 120
Trim frame external dimensions (mm)	1144 x 604 x 27	1144 x 604 x 27	1144 x 854 x 27
Order no.	30114	30115	30116
AT Wall-mounting with door IP 43	AT 72	AT 72 K	AT 73 K
External dimensions H x W x D (mm)	1124 x 574 x 140	1124 x 574 x 140	1124 x 824 x 140
Order no.	30134	30135	30136

Ordering Information - AT/U Series

Equipped Distribution Boards 150 mm

Distance Between Rows



2-row

Devices

48

U Flush-mounting with door IP 31

U 32 R2

(standard metal door)

Niche dimensions H x W x D (mm)

534 x 560 x 120

Trim frame external dimensions (mm)

544 x 604 x 27

Order no.

71707

with transparent door

U 32 TR2

Order no.

71721

AT Wall-mounting with door IP 43

AT 32 R2

External dimensions H x W x D (mm)

524 x 574 x 140

Order no.

71680

with transparent door

AT 32 TR2

Order no.

71694



3-row

Space units

36

72

108

U Flush-mounting with door IP 31

U 41 R3

U 42 R3

U 43 R3

(standard metal door)

Niche dimensions H x W x D (mm)

684 x 310 x 120

684 x 560 x 120

684 x 810 x 120

Trim frame external dimensions (mm)

694 x 354 x 27

694 x 604 x 27

694 x 854 x 27

Order no.

71708

71709

71710

with transparent door

U 41 TR3

U 42 TR3

U 43 TR3

Order no.

71722

71723

71724

AT Wall-mounting with door IP 43

AT 41 R3

AT 42 R3

AT 43 R3

External dimensions H x W x D (mm)

674 x 324 x 140

674 x 574 x 140

674 x 824 x 140

Order no.

71681

71682

71683

with transparent door

AT 41 TR3

AT 42 TR3

AT 43 TR3

Order no.

71695

71696

71697

Ordering Information - AT/U Series

Equipped Distribution Boards 150 mm

Distance Between Rows



3-row

Devices

72

Flush-mounting with Trim frame and picture frame (IP31) brushed aluminium

U 42 R3 DE

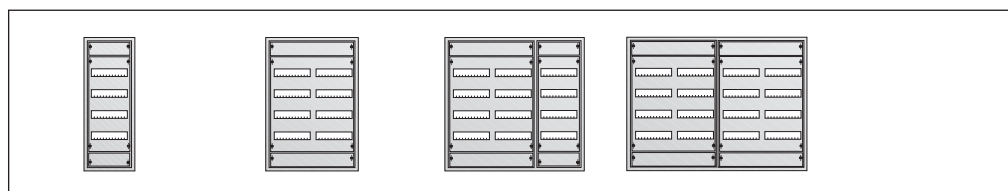
Niche dimensions H x W x D (mm) 700 x 575 x 120

Picture frame external dimensions (mm) 716 x 625 x 25

Usable area H x W (mm) 600 x 468

Order no. 71732

02



4-row

Devices

48

96

144

192

U Flush-mounting with door IP 31 (standard metal door)

U 51 R4

U 52 R4

U 53 R4

U 54 R4

Niche dimensions H x W x D (mm) 834 x 310 x 120

834 x 560 x 120

834 x 810 x 120

834 x 1060 x 120

Trim frame external dimensions (mm) 844 x 354 x 27

844 x 604 x 27

844 x 854 x 27

844 x 1104 x 27

Order no. 71711

71712

71713

71714

with transparent door

U 51 TR4

U 52 TR4

U 53 TR4

U 54 TR4

Order no. 71725

71726

71727

71728

AT Wall-mounting with door IP 43

AT 51 R4

AT 52 R4

AT 53 R4

AT 54 R4

External dimensions H x W x D (mm) 824 x 324 x 140

824 x 574 x 140

824 x 824 x 140

824 x 1074 x 140

Order no. 71684

71685

71686

71687

with transparent door

AT 51 TR4

AT 52 TR4

AT 53 TR4

AT 54 TR4

Order no. 71698

71699

71700

71701

Ordering Information - AT/U Series

Equipped Distribution Boards 150 mm

Distance Between Rows

5-row

Devices

U Flush-mounting with door IP 31
(standard metal door)

Niche dimensions H x W x D (mm)

Trim frame external dimensions (mm)

Order no.

60

U 61 R5

984 x 310 x 120

994 x 354 x 40

71715

120

U 62 R5

984 x 560 x 120

994 x 604 x 40

71716

180

U 63 R5

984 x 810 x 120

994 x 854 x 40

71717

with transparent door

Order no.

U 61 TR5

71729

U 62 TR5

71730

U 63 TR5

71731

AT Wall-mounting with door IP 43

External dimensions H x W x D (mm)

Order no.

AT 61 R5

974 x 324 x 140

71688

AT 62 R5

974 x 574 x 140

71689

AT 63 R5

974 x 824 x 140

71690

with transparent door

Order no.

AT 61 TR5

71702

AT 62 TR5

71703

AT 63 TR5

71704

6-row

Devices

U Flush-mounting with door IP 31
(standard metal door)

Niche dimensions H x W x D (mm)

Trim frame external dimensions (mm)

Order no.

144

U 72 R6

1134 x 560 x 120

1144 x 604 x 27

71718

216

U 73 R6

1134 x 810 x 120

1144 x 854 x 27

71719

with transparent door

Order no.

U 72 TR6

71733

U 73 TR6

71734

AT Wall-mounting with door IP 43

External dimensions H x W x D (mm)

Order no.

AT 72 R6

1124 x 574 x 140

71691

AT 73 R6

1124 x 824 x 140

71692

with transparent door

Order no.

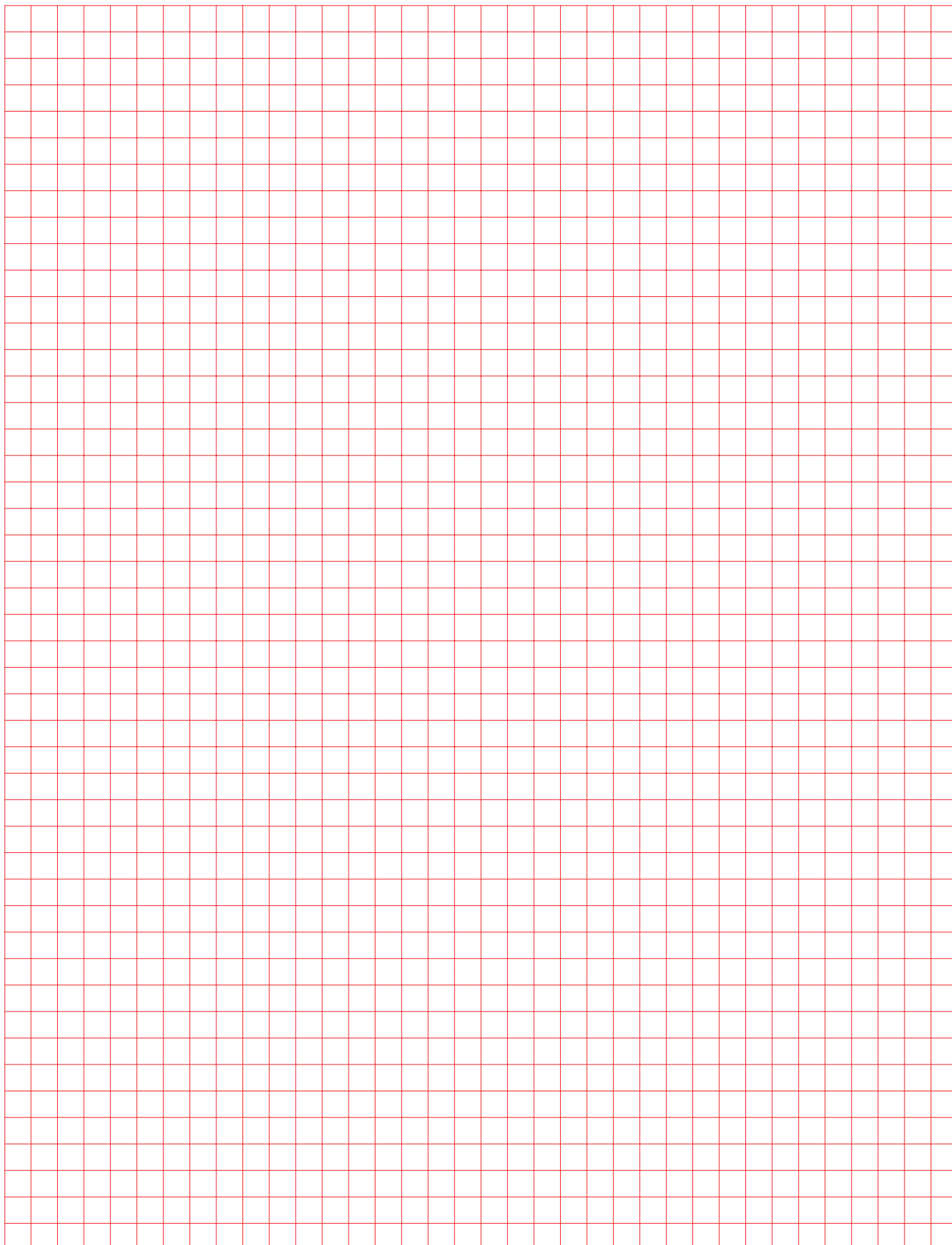
AT 72 TR6

71705

AT 73 TR6

71706

For your own Notes



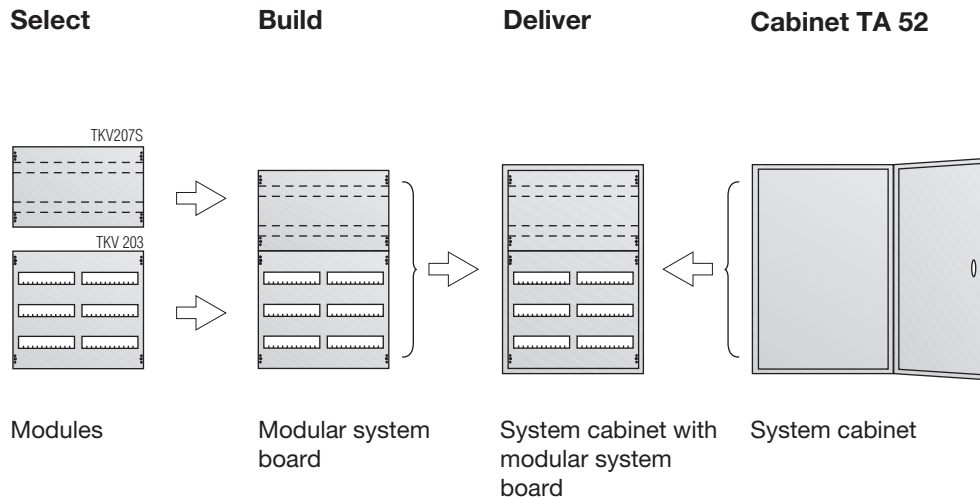
Order Information - AT/U Series

Empty Distribution Boards

for Individual Customer Applications –

To permit even more flexible use of our distribution board cabinets, we offer the possibility of using modular system boards. The configuration of the system for internal installation is simply carried out as usual with our software tools. Irrespective as to whether flush or wall-mounted, the procedure is always the same. The new modular system boards are available for fitting with devices by the customer.

The complete supply



Simple System Handling

- Remove modular system board from cabinet
- Equip and wire outside
- Place finished modular system board in the cabinet

Delivery form:

- A. Empty distribution board cabinets
- B. The empty housings are equipped in the factory with the TKV modular system boards chosen by you.

Order Information - AT/U Series

Empty Distribution Boards

for Individual Customer Applications –

4-row

PLE	48	96	144
U Flush-mounting with door IP 31 (standard metal door)	TU 41	TU 42	TU 43
Niche dimensions H x W x D (mm)	684 x 310 x 120	684 x 560 x 120	684 x 810 x 120
Trim frame external dimensions (mm)	694 x 354 x 27	694 x 604 x 27	694 x 854 x 27
Order no.	67709	67710	67711
AT Wall-mounting with door IP 43 (standard metal door)	TA 41	TA 42	TA 43
External dimensions H x W x D (mm)	674 x 324 x 140	674 x 574 x 140	674 x 824 x 140
Order no.	67700	67701	67702

5-row

Devices	60	120	180
U Flush-mounting with door IP 31 (standard metal door)	TU 51	TU 52	TU 53
Niche dimensions H x W x D (mm)	834 x 310 x 120	834 x 560 x 120	834 x 810 x 120
Trim frame external dimensions (mm)	844 x 354 x 27	844 x 604 x 27	844 x 854 x 27
Order no.	67712	67713	67714
AT Wall-mounting with door IP 43 (standard metal door)	TA 51	TA 52	TA 53
External dimensions H x W x D (mm)	824 x 324 x 140	824 x 574 x 140	824 x 824 x 140
Order no.	67703	67704	67705

6-row

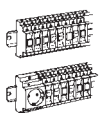
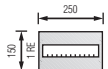
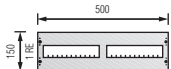
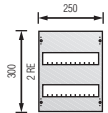
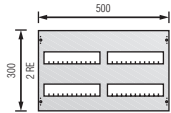
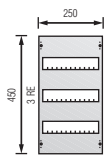
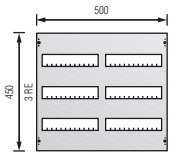
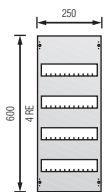
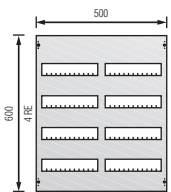
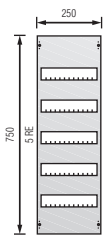
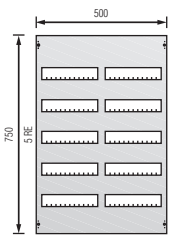
Devices	72	144	216
U Flush-mounting with door IP 31 (standard metal door)	TU 61	TU 62	TU 63
Niche dimensions H x W x D (mm)	984 x 310 x 120	984 x 560 x 120	984 x 810 x 120
Trim frame external dimensions (mm)	994 x 354 x 27	994 x 604 x 27	994 x 854 x 27
Order no.	67715	67716	67717
AT Wall-mounting with door IP 43 (standard metal door)	TA 61	TA 62	TA 63
External dimensions H x W x D (mm)	974 x 324 x 140	974 x 574 x 140	974 x 824 x 140
Order no.	67706	67707	67708

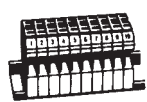
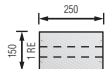
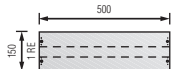
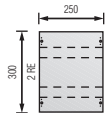
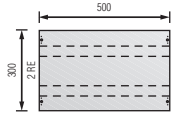
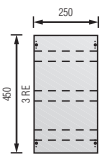
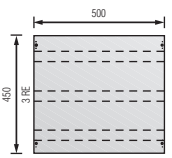
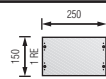
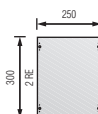
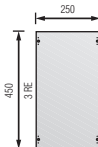
Delivery form:

- A. Empty distribution board cabinets
- B. The empty housings are equipped in the factory with the TKV modular system boards chosen by you.

Order Information - AT/U Series

Distribution Board panels

Module type:	Module for DIN rail mounted devices	
	For rail mounted devices according to DIN 43880 Configuration with DIN-Rails 35 x 7.5 mm EN 50022 Sendzimir process galvanized Row spacing 125 mm	
Rows	Width 250	Width 500
1	Type TKV 101 PLE 12 	Type TKV 201 PLE 24 
2	Type TKV 102 PLE 24 	Type TKV 202 PLE 48 
3	Type TKV 103 PLE 36 	Type TKV 203 PLE 72 
4	Typ TKV104 PLE 48 	Typ TKV204 PLE 96 
5	Typ TKV105 PLE 60 	Typ TKV205 PLE 120 

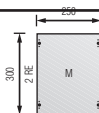
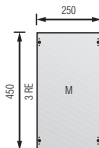
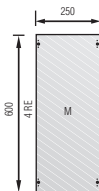
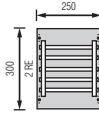
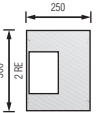
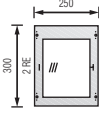
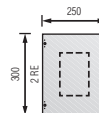
Module type:	Module for Terminals	
	With DIN-Rails 35 x 7.5 mm EN 50022 Sendzimir process galvanized I _N 87 A protection class 2 DIN-Rails fitted insulated * DIN-Rails fitted to the rear	
Rows	Width 250	Width 500
1	Type TKV 106 S PLE 12 	Type TKV 206 S PLE 24 
2	Type TKV 107 S PLE 24 	Type TKV 207 S PLE 48 
3	Type TKV 108 S PLE 36 	Type TKV 208 S PLE 72 
Module type: Cover module		
Empty module		
Standard square	Width 250	
1	Type TKV 116 PLE 12 	
2	Type TKV 117 PLE 24 	
3	Type TKV 118 PLE 36 	

PLE= The Space unit

➔ more information find on page 4-20

Order Information - AT/U Series

Distribution Board panels

Module type: Mounting plate module	
Mounting plates of 2 mm sheet steel, Sendzimir process galvanized	
Rows	Width 250
2	Typ TKV112 PLE 24 
3	Typ TKV113 PLE 36 
4	Typ TKV114 PLE 48 
Module type: Busbar module	
5-pole Cu bars, 12 x 5 mm Bar spacing 40 mm, 5-pol Busbar support ZB5	
Rows	Width 250
2	Typ TKV124B PLE 24 
Module type: fuse disconnecter module	
1. fuse disconnecter Size 00	
Rows	Width 250
2	Empty modul Typ TKV136 PLE 24  Prepared for the following fuse disconnectors: Striebel & John, Efen, Jung, Lindner, Jean Müller, Wöhner
Module type: D02 Fuse base module	
Rows	Width 250
2	Empty module cover with cutout Fitted with Busbars 12 x 5 250 A, 3-pole without Fuse Holders D02 Connection Terminals ZK81, 35 qmm, I _n 100 A Typ TKV1D02R PLE 24  Space for 5 x 3 x D02
Module type: Power circuit-breaker module	
Closed cover Empty module prepared for the following makes: ABB Series: SACE/Isomax	
Rows	Width 250
2	For Switch 63 - 100A Typ TKV100A PLE 24 

02

PLE= The Space unit

➔ more information find on page 4-20

Order Information - AT/U Series

Accessories

	Part	Order no.	Type
	<u>Inter changeable lock parts</u>		
	Standard closure included	38478	ZB 113
	Safety lock with 2 keys	38479	ZB 111
	Door closure rod in combination with standard closure or Safety lock for AT/U 4...	39586	ZX 456
	for AT/U 5...	39587	ZX 457
	for AT/U 6...	39588	ZX 458
	for AT/U 7...	39589	ZX 459
	Set for installation of different closure systems ZH 220/ZH 221/ZH 222	38544	ZH 800
	Latch plate for double bit operating pin 3 mm (standard) and 5 mm	45700	ZH 220
	Operating pin double bit 3 mm	60490	ZH 130
	double bit 5 mm	60491	ZH 131
	Double bit key 3 mm	60660	ZH 160
	5 mm	60661	ZH 161
	Latch plate for triangular and square operating pin	45701	ZH 221
	Operating pin Triangular 7 mm	60492	ZH 132
	Triangular 8 mm	60493	ZH 133
	Operating pin Square 6 mm	60494	ZH 134
	Square 7 mm	60495	ZH 135
	Square 8 mm	60496	ZH 136

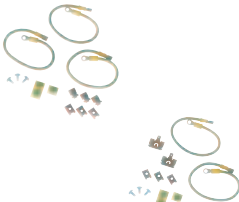
Order Information - AT/U Series

Accessories

	Part	Order no.	Type
	Operating key		
	Triangular 7 mm	60657	ZH 157
	Triangular 8 mm	60658	ZH 158
	Square 6 mm	60662	ZH 162
	Square 7 mm	60663	ZH 163
	Square 8 mm	60664	ZH 164
	Universal key		
	Double bit key 3 mm/5 mm, Triangular 8 mm	66091	ZH 91
	Square 6 mm/8 mm		
	Latch plate		
	for T-handle or latch-type handle	45702	ZH 222
	T-handle		
	without lock, complete	60498	ZH 138
	with lock, complete	60499	ZH 139
	Latch handle		
	without lock, complete	60500	ZH 140
	with lock, complete	60501	ZH 141
	Cabinet handle closure		
	for semi-cylinder, lead-sealable, complete with accessories	45709	ZH 228
	for retrofitting into distribution boards.		
	Dummy insert		
	(instead of a semi cylinder)	60502	ZH 142
	Door closure rod		
	in combination with ZH 203, ZH 220, ZH 221, ZH 222, ZH 227 and ZH 228 locking system		
	for AT/U 4...	39570	ZX 440
	for AT/U 5...	39571	ZX 441
	for AT/U 6...	39572	ZX 442
	for AT/U 7...	39573	ZX 443

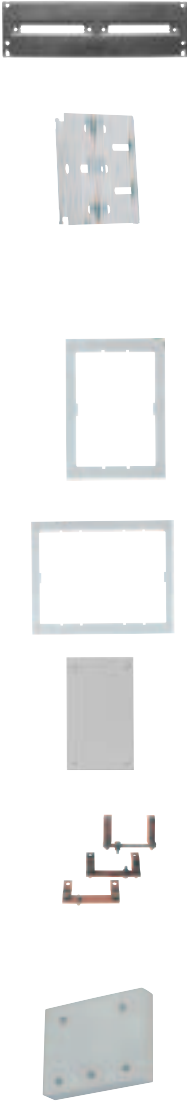
Order Information - AT/U Series

Accessories

	Part	Order no.	Type
          	Hollow wall-mounting set for retrofitting a flush-mounting distribution board Wall thickness: min. 14 mm max. 58 mm	62446	ZKV200P4
	Earthing set for flush-mounting distribution boards for conversion into class I	38144	ZE 12
	Earthing set for wall-mounting distribution boards for conversion into class I	38143	ZE 11
	Nipple flange	38195	ZB 40
	Membrane flange to feed in cables from bottom	38183	ZB 43
	Closing flange	38181	ZB 101
	Flange for conduits (bottom)	71211	ZB 107E
	Flange for conduits (top)	71212	ZB 108E
	Vertical partitions for AT/U 3... for AT/U 4... for AT/U 5... for AT/U 6... for AT/U 7...	39069 39070 39071 39072 39073	ZX 69 ZX 70 ZX 71 ZX 72 ZX 73
	Slot cover Colour RAL 7035 (5 pcs.) (50 pcs.)	62384 62378	ZA 1P5 ZA 1P50
	Circuit diagram pocket DIN A4 adhesive, with transparent cover DIN A4 adhesive, with transparent cover 1 set = 10 pcs. DIN A5 adhesive, 1 pcs. DIN A5 adhesive, 1 pack = 10 pcs.	38227 62380 38228 62382	ZA 6 ZA 6P10 ZA 5 ZA 5P10
	Mounting plate for MCCB SACE, T max T1 and T2	39311	ED161

Order Information - AT/U Series

Accessories

	Part	Order no.	Type
	<u>Mounting components for disconnectors</u>		
	Fuse disconnector cross member	68079	ZX 374
	Fuse disconnector quick fastener for mounting on DIN-rails	61157	ZH 12
	<u>Cover for fuse disconnectors</u>		
	Single cover for disconnector NH 00	61194	ZH 425
	Twin cover for disconnector NH 00	61196	ZH 426
	Dummy cover for disconnector NH 00	38197	ZH 428
	Busbar system 320 A Cu 20 x 5 for connecting 2 NH fuse disconnectors ZH 11	60443	ZH 214
	Insulating plate for unoccupied busbar ends for NH fuse disconnectors	44018	ZX 148

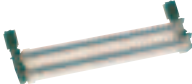
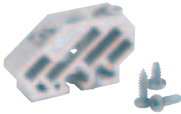
Order Information - AT/U Series

Accessories

	Part	Order no.	Type
        	EDF profile 3 Rows Height 00, 450 mm, 1 pcs. Height 00, 450 mm, 1 pack = 20 pcs. 4 Rows Height 0, 600 mm, 1 pcs. Height 0, 600 mm, 1 pack = 20 pcs. 5 Rows Height 1, 750 mm, 1 pcs. Height 1, 750 mm, 1 pack = 20 pcs. 6 Rows Height 2, 900 mm, 1 pcs. Height 2, 900 mm, 1 pack = 20 pcs. 7 Rows Height 3, 1050 mm, 1 pcs.	39209 62312 39210 62313 39211 62314 39212 62315 39213	ED 9 ED 9P20 ED 10 ED 10P20 ED 11 ED 11P20 ED 12 ED 12P20 ED 13
	Fastening screws for EDF profile (1 pack = 20 pcs.)	62390	ZB 36P20
	DIN-Rail 35 x 7.5 mm, DIN 50022 1-panel wide, 1 pcs. 1-panel wide, 1 pack = 30 pcs. 2-panel wide 2-panel wide, 1 pack = 30 pcs.	39021 62554 39022 62555	ZX21 ZX 21P30 ZX 22 ZX 22P30
	Fastening screws for DIN-Rails 1 pack = 20 pcs.	62389	ZB 28P20
	DIN-Rail for terminals 35 x 7.5 mm, DIN 50022, for recessed mounting in conjunction with mounting bracket ZX372P2 and insulators ZK90P2 1-panel wide 2-panel wide	68076 68190	ZX 371 ZX 389
	Mounting brackets for ZK 90 1 pack = 2 pcs. for ZK 90 1 pack = 20 pcs.	62544 68615	ZX 372P2 ZX 372P20
	Insulating pcs. for DIN rails 35 x 7.5 mm, with fixing material 1 pack = 2 pcs. for DIN rails 35 x 7.5 mm, with fixing material 1 pack = 100 pcs.	62426 68613	ZK 90P2 ZK 90P100
	Door hinges 1 pack = 2 pcs.	62490	ZX 134LR
	Closure for double-wing door (for cabinets from 3-panels onwards)	39596	ZX 464

Order Information - AT/U Series

Accessories

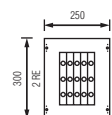
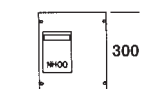
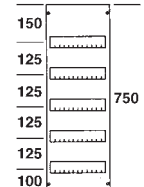
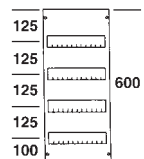
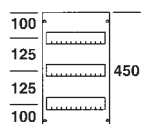
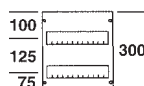
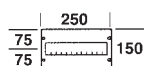
	Part	Order no.	Type
	90° press-and-turn fixing screw 12 pcs.	62337	ED 50 P12
	Cover support, 45 mm height For fastening on the EDF-profile Only use these cover holders for DIN rails 35 x 7.5 mm 1 pack = 4 pcs. 1 pack = 40 pcs.	62600 62601	ED 137P4 ED 137P40
	Labelling system adhesive, for AT/AV and U	38148	ZKV 201
	N + PE Quick terminals with mounting clips 6 x 16 mm ² screwable 21 x 1,5 - 4 mm ² plugable	38508	ZK 525
	N + PE terminals with mounting clips 23 x 10 mm ² and 4 x 16 mm ² screwable	38149	ZKV 202
	N-RCD-terminals 6 x 1,5 - 4 mm ² plugable	38505	ZK 522
	N-RCD-terminals 5 x 16 mm ²	38892	ZK 507
	PE/N Busbars 12 x 5 mm Cu, to be fixed on the panels Max. installation 95 mm ² (terminals are not included) 1-panel wide 2-panel wide	38551 38552	ZK 300 ZK 301
	PE/N Busbar support cropperbars 12 x 5 mm, 20 x 5 mm, 30 x 5 mm 1 pcs. 1 pack = 10 pcs.	67805 62551	ZX 518 ZX 518P10
	Cover Profile to clip on busbars 12 x 5 und 12 x 10 mm per running meter	38187	ZB 19
	Terminal 1,5 – 16 mm ² for Cu 12 x 5 mm 1 pack = 4 pcs. 1 pack = 10 pcs.	62421 62429	ZK 79P4 ZK 79P50
	Terminal 1,5 – 35 mm ² for Cu 12 x 5 mm 1 pack = 4 pcs. 1 pack = 50 pcs.	62422 62431	ZK 81P4 ZK 81P50

Order Information - AT/U Series

Accessories



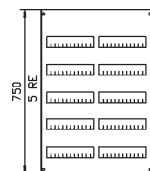
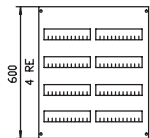
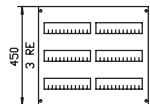
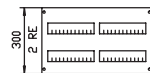
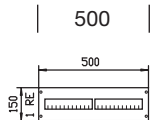
| 250 |



Part	Order no.	Type
Transparent doors for distribution boards (U + AT)		
to fit:		
AT32 or U32	62022	TTS 200
AT41 or U41	62026	TTS 10
AT42 or U42	62027	TTS 20
AT43 or U43	62028	TTS 30
AT51 or U51	62031	TTS 11
AT52 or U52	62032	TTS 21
AT53 or U53	62033	TTS 31
AT54 or U54	62034	TTS 41
AT61 or U61	62036	TTS 12
AT62 or U62	62037	TTS 22
AT63 or U63	62038	TTS 32
AT72 or U72	62042	TTS 23
AT73 or U73	62043	TTS 33
Covers for distribution panels 125 mm row distance		
with punched-out slots "AS..." or without slots		
(completely closed version) „AG..."		
Covers 1-panel wide		
polystyrene covers with lead-sealable		
90° press-and-turn fixing screw and handle		
150 x 250 mm without slots	62801	AG 11
150 x 250 mm with slots	62802	AS 11
300 x 250 mm without slots	62803	AG 12
300 x 250 mm with slots	62804	AS 12
450 x 250 mm without slots	62805	AG 13
450 x 250 mm with slots	62806	AS 13
600 x 250 mm without slots	62807	AG 14
600 x 250 mm with slots	62808	AS 14
600 x 250 mm without slots	62809	AG 15
600 x 250 mm with slots	62810	AS 15
300 x 250 mm for 1 NH-switch disconnectors	62873	AG 71
Size 00 with one cutout		
300 x 250 mm for 5 x 3 DO2 fuse elements	62886	AG 160
Size 00 with one cutout		

Order Information - AT/U Series

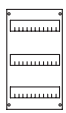
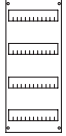
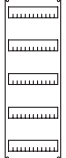
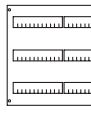
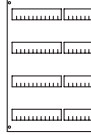
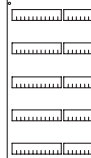
Accessories



Part	Order no.	Type
Covers for distribution panels 125 mm row distance		
with punched-out slots "AS..." or without slots (completely closed version) „AG..."		
Covers 2-panels wide		
polystyrene covers with lead-sealable 90° press-and-turn fixing screw and handle		
150 x 500 mm without slots	62811	AG 21
150 x 500 mm with slots	62812	AS 21
300 x 500 mm without slots	62813	AG 22
300 x 500 mm with slots	62814	AS 22
450 x 500 mm without slots	62815	AG 23
450 x 500 mm with slots	62816	AS 23
600 x 500 mm without slots	62817	AG 24
600 x 500 mm with slots	62818	AS 24
750 x 500 mm without slots	62819	AG 25
750 x 500 mm with slots	62820	AS 25

Order Information - AT/U Series

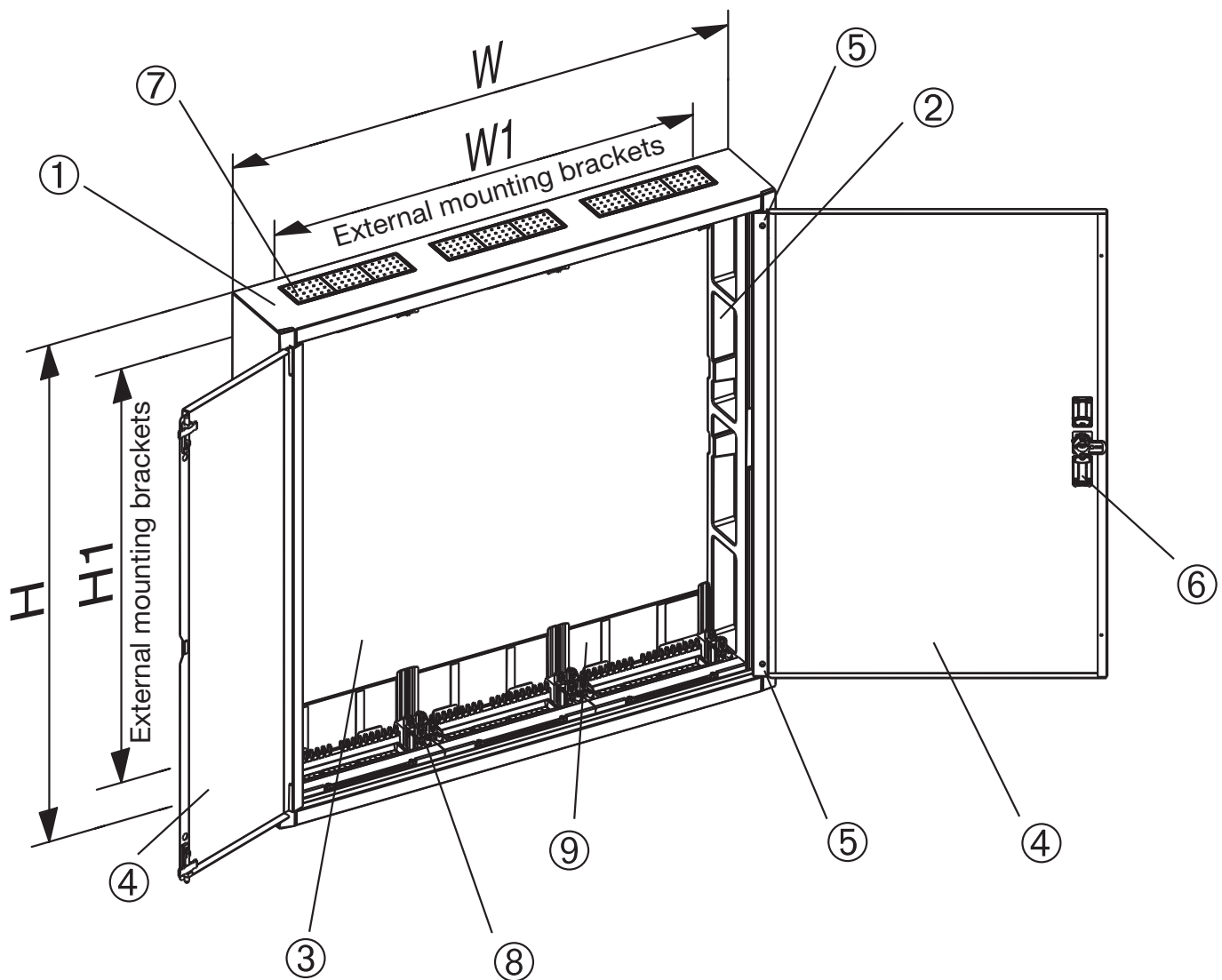
Accessories

	Part	Order no.	Type
	Covers for distribution panels 150 mm row distance with punched-out slots "AS..." or without slots (completely closed version) „AG..."		
	Covers 1-panel wide polystyrene covers with lead-sealable 90° press-and-turn fixing screw and handle		
	75 x 250 mm without slot	70387	AH 1
	300 x 250 mm with slots	62832	AS 212
	450 x 250 mm with slots	62834	AS 213
	600 x 250 mm with slots	62836	AS 214
	750 x 250 mm with slots	62838	AS 215
	Covers 2-panels wide polystyrene covers with lead-sealable 90° press-and-turn fixing screw and handle		
	75 x 500 mm without slots	70388	AH 2
	300 x 500 mm with slots	62840	AS 222
	450 x 500 mm with slots	62842	AS 223
	600 x 500 mm with slots	62844	AS 224
	750 x 500 mm with slots	62846	AS 225

Technical Information AT/U Series

Empty distribution board

1. The cabinet is made of sheet steel (1 mm) and is powder-coated (RAL 9016). It's extraordinary stability is archived by the proiled cabinet frame. Problem-free surface-mounting is therefore also possible.
2. The protective insulation is guaranteed by an inserted plastic profile.
3. An additional plastic rear wall is inserted in order to maintain the protective insulation.
4. The door (sheet thickness 1.25 mm) provides great stability thanks to its special shape in the hinge area and on the closing side.
5. The door can be readjusted with the special hinge.
6. The standard lock offers not only a new design but also secure locking both as "standard" and as a "security cylinder".
7. The flange openings on top are closed ex-factory with the membrane flange.
8. The cabinet provides an optimum connection space thanks to the individual panel holders.
9. Prepunched knockout are provided for inserting cables from the rear.



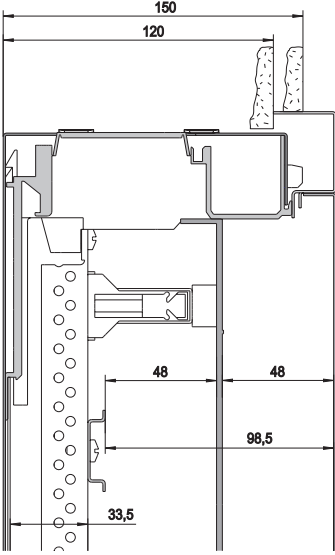
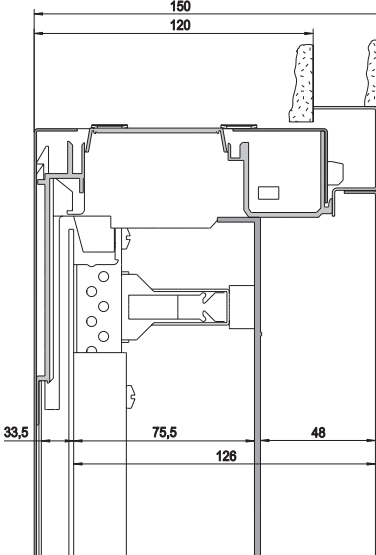
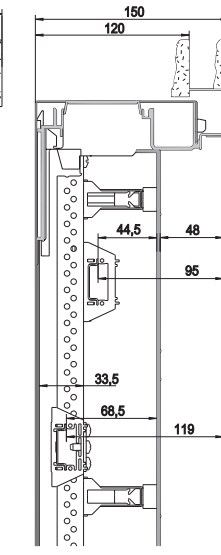
02

Typ	H	W	H ₁	W ₁	Typ	H	W	H ₁	W ₁	Typ	H	W	H ₁	W ₁
AT32	524	574	385	417	AT, AV, TA52	824	574	685	417	AT, TA63	974	824	835	667
AT, AV, TA41	674	324	535	167	AT, AV, TA53	824	824	685	667	AT64	974	1074	835	917
AT, AV, TA42	674	574	535	417	AT54	824	1074	685	917	AT72	1124	574	985	417
AT, TA43	674	824	535	667	AT, AV, TA61	974	324	835	167	AT73	1124	824	985	667
AT, AV, TA51	824	324	685	167	AT, TA62	974	574	835	417					

Technical Information AT/U Series

Dimensions, Weight, Power Loss

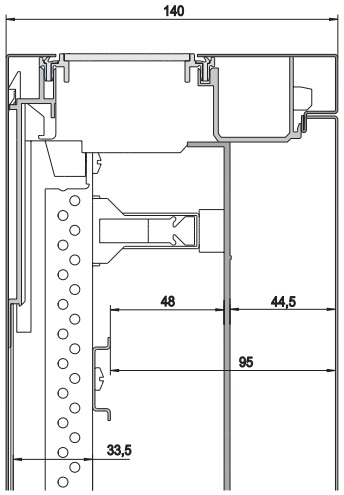
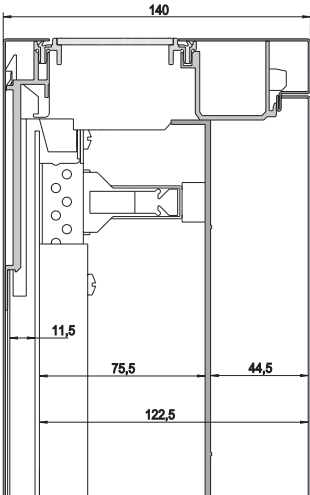
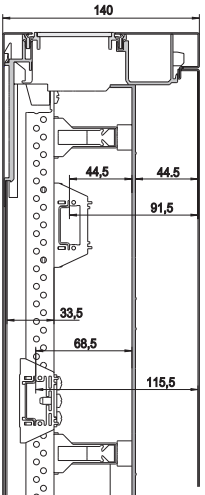
Flush mounting with door, U

		Type	Weight in kg	Power Loss. in W
	Distribution board panel	U32	13,5	50
		U41	10,5	36
		U42	15,5	60
	Panel with mounting plate	U42D	16,5	60
		U42FPT	17,0	60
		U42M	18,5	60
	Panel for terminals	U43	22,5	80
		U51	12,5	43
		U52	18,5	69
		U52K	18,5	69
		U53	26,5	93
		U53M	29,0	93
		U53K	26,0	93
		U54K	32,5	120
		U61	14,5	50
		U62	22,0	80
		U62K	22,0	80
		U63K	30,5	110
		U64K	38,0	137
		U72	25,0	89
		U72K	25,0	89
		U73K	35,0	125

Technical Information AT/U Series

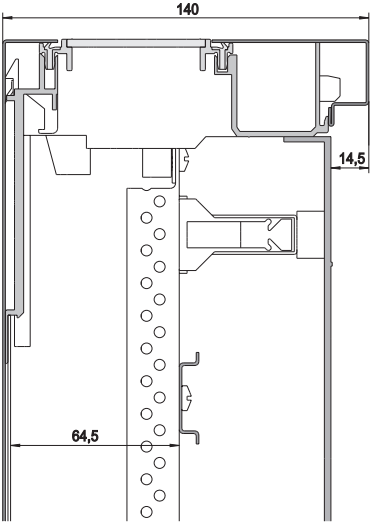
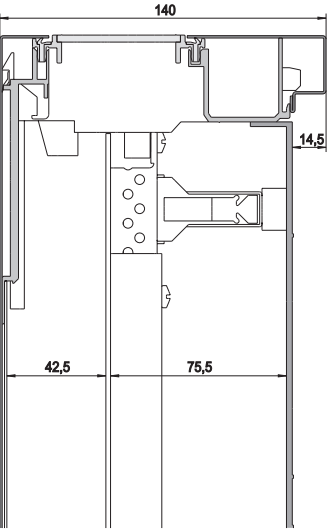
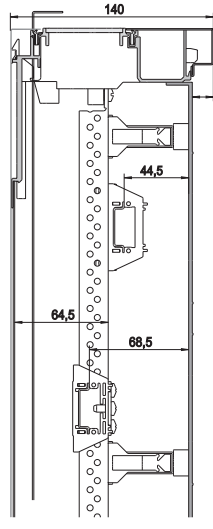
Dimensions, Weight, Power Loss

Wall mounting with door, AT

	Type	Weight	Power Loss..
		in kg	in W
	AT32	12,5	60
	AT41	9,5	48
	AT42	15,0	73
	AT42M	17,5	73
	AT43	21,5	96
	AT51	11,5	58
	AT52	17,0	85
	AT52K	17,5	85
	AT53	25,0	120
	AT53M	28,0	120
	AT53K	25,0	120
	AT54K	31,0	140
	AT61	13,5	68
	AT62	21,0	100
	AT62K	20,5	100
	AT63K	29,0	130
	AT64K	36,0	176
	AT72	23,5	111
	AT72K	23,5	111
	AT73K	33,5	153
			

02

Wall mounting without door, AV

	Type	Weight	Power Loss..
		in kg	in W
	AV41	8,0	56
	AV42	11,5	81
	AV51	9,5	64
	AV52	14,0	93
	AV53	22,5	128
	AV61	10,5	76
			
			

Consumer Units

Distribution Boards

Wall Cabinets

Distribution Board Panels



Wall cabinets

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Technical Information Wall Cabinets Grounded

3-24 B-, C-, G-, W-Cabinets

Applicable Standards:

IEC 60439-1 (DIN EN 60439-1)

The relevant regulations for manufacturing switchgear combinations must be observed in order to conform to protection class 1/2 (grounded / double insulated).

Product Features - Wall cabinets

double insulated, for indoor use

➔ For dimensions & technical details/specifications, see page 3-8

➔ Transparent doors, see page 3-23 only for A & U cabinets



U cabinets

IP 31

Cabinet depth 200 mm

Empty cabinets for flush-mounting with trim frame and door

- I_N 250A (355A¹⁾)
- Flush wall box of electrolytically galvanised sheet steel, 1 mm, with recessed plastic profile for double insulation
- Trim frame with sheet steel door, adjustment to the plaster surface 35 mm
- RAL 9016 powder-coated
- Prepared for the installation of meter and distribution board panels
- Double-wing doors for cabinets 3 panels wide or more
- Door opening angle 130 degrees
- With standard closure ZB 113
- Nipple flange ZB 39 included



A cabinets

IP 43

Cabinet depth 215 mm

Empty cabinets for surface mounting, flush-mounting and partially recessed mounting

- I_N 250A (355A¹⁾)
- Enclosure and door made of 1 mm sheet steel with recessed plastic profile for double insulation
- RAL 9016, powder-coated
- Prepared for the installation of meter and distribution board panels
- Double-wing doors for cabinets 3 panels wide or more
- Door opening angle 130 degrees
- With standard closure ZB 113
- Flange openings on top and knock outs are provided at the bottom and sides
- Membrane flanges are mounted on top (one per panel width)
- One nipple flange ZB 40 also included
- Plastic backplate
- If partially recessed mounting is envisaged, a trim frame can be supplied

¹⁾ Evidence in accordance with IEC 60439-1 required depending on the switchgear combination

Product Features - Wall cabinets

double insulated, for indoor use

→ For dimensions & technical details/specifications, see page 3-14



FS cabinets

IP 54

Cabinet depth 225 mm

Empty cabinets for surface mounting and partially recessed mounting

- I_N 250A (355A¹⁾)
- Enclosure and door made of 1.5 mm sheet steel
- RAL 7035 powder-coated
- The cabinets are prepared for the installation of meter and distribution board panels
- Double-doors for cabinets 4 panels wide or more
- Door opening angle 160 degrees
- Doors with espagnolette closure
- Standard closure: double bit 3 mm
- One flange opening per panel width is cut out on top, knockouts are provided at the sides and bottom. No side knockouts in the case of overall height 0.
- The top and bottom flange openings can optionally be closed with a flange for metric screw fittings or a membrane flange.
(Flanges must be ordered separately.)
- With external mounting brackets



WS cabinets

IP 55

Cabinet depth 360 mm

Empty cabinets for surface mounting and partially recessed mounting

- I_N 355A
- Enclosure made of 1.5 mm sheet steel with 2 mm thick door
- RAL 7035 powder-coated
- The cabinets are prepared for the installation of distribution board panels
- Double-doors for cabinets 4 panels wide or more
- Door opening angle 120 degrees
- Doors with espagnolette closure
- Standard closure: double bit 3 mm
- One flange opening per panel width is cut out on top and bottom, knockouts are provided at the sides.
- The top and bottom flange openings can optionally be closed with a nipple flange, sponge rubber flange or closing flange.
(Flanges must be ordered separately.)
- With external mounting brackets

¹⁾ Evidence in accordance with IEC 60439-1 required depending on the switchgear combination (TTA, PTTA)

Ordering Information - Wall cabinets

double insulated, for indoor use

→ For accessories, see page 3 - 6

→ Distribution panels, combination sets, TNF modules, see page 4 - 1

U cabinet

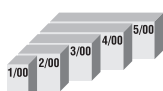
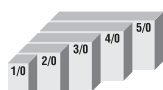
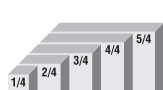
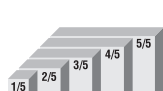
IP 31 

Colour: RAL 9016 (trim frame and door)
Flanges included.

A cabinet

IP 43 

Colour: RAL 9016
Membrane flange, mounted at the top.

Overall height	Rows	Panels	Devices	Type	Ord.no.	Niche dimensions HxWxD mm	Type	Ord.no.	External dimensions HxWxD mm
00	3								
500 mm		1	36				1/00 A	36061	500 x 300 x 215
		2	72				2/00 A	36062	500 x 550 x 215
		3	108				3/00 A	36063	500 x 800 x 215
		4	144				4/00 A	36064	500 x 1050 x 215
		5	180				5/00 A	36065	500 x 1300 x 215
0	4								
650 mm		1	48				1/0 A	36001	650 x 300 x 215
		2	96				2/0 A	36002	650 x 550 x 215
		3	144				3/0 A	36003	650 x 800 x 215
		4	192				4/0 A	36004	650 x 1050 x 215
		5	240				5/0 A	36005	650 x 1300 x 215
1	5								
800 mm		1	60	1/1 U	36211	815 x 315 x 200	1/1 A	36011	800 x 300 x 215
		2	120	2/1 U	36212	815 x 565 x 200	2/1 A	36012	800 x 550 x 215
		3	180	3/1 U	36213	815 x 815 x 200	3/1 A	36013	800 x 800 x 215
		4	240	4/1 U	36214	815 x 1065 x 200	4/1 A	36014	800 x 1050 x 215
		5	300				5/1 A	36015	800 x 1300 x 215
2	6								
950 mm		1	72	1/2 U	36221	965 x 315 x 200	1/2 A	36021	950 x 300 x 215
		2	144	2/2 U	36222	965 x 565 x 200	2/2 A	36022	950 x 550 x 215
		3	216	3/2 U	36223	965 x 815 x 200	3/2 A	36023	950 x 800 x 215
		4	288	4/2 U	36224	965 x 1065 x 200	4/2 A	36024	950 x 1050 x 215
		5	360	5/2 U	36225	965 x 1315 x 200	5/2 A	36025	950 x 1300 x 215
3	7								
1100 mm		1	84	1/3 U	36231	1115 x 315 x 200	1/3 A	36031	1100 x 300 x 215
		2	168	2/3 U	36232	1115 x 565 x 200	2/3 A	36032	1100 x 550 x 215
		3	252	3/3 U	36233	1115 x 815 x 200	3/3 A	36033	1100 x 800 x 215
		4	336	4/3 U	36234	1115 x 1065 x 200	4/3 A	36034	1100 x 1050 x 215
		5	420	5/3 U	36235	1115 x 1315 x 200	5/3 A	36035	1100 x 1300 x 215
4	8								
1250 mm		1	96	1/4 U	36241	1265 x 315 x 200	1/4 A	36041	1250 x 300 x 215
		2	192	2/4 U	36242	1265 x 565 x 200	2/4 A	36042	1250 x 550 x 215
		3	288	3/4 U	36243	1265 x 815 x 200	3/4 A	36043	1250 x 800 x 215
		4	384	4/4 U	36244	1265 x 1065 x 200	4/4 A	36044	1250 x 1050 x 215
		5	480	5/4 U	36245	1265 x 1315 x 200	5/4 A	36045	1250 x 1300 x 215
5	9								
1400 mm		1	108	1/5 U	36251	1415 x 315 x 200	1/5 A	36051	1400 x 300 x 215
		2	216	2/5 U	36252	1415 x 565 x 200	2/5 A	36052	1400 x 550 x 215
		3	324	3/5 U	36253	1415 x 815 x 200	3/5 A	36053	1400 x 800 x 215
		4	432	4/5 U	36254	1415 x 1065 x 200	4/5 A	36054	1400 x 1050 x 215
		5	540	5/5 U	36255	1415 x 1315 x 200	5/5 A	36055	1400 x 1300 x 215

Ordering Information - Wall cabinets

double insulated, for indoor use

FS cabinet

IP 54 

Colour: RAL 7035

→ Flanges must be ordered separately
see page 3 - 6

Type	Ord.no.	External dimensions HxWxD mm
------	---------	---------------------------------

2/0 FS	34401	650 x 550 x 225
3/0 FS	34402	650 x 800 x 225
4/0 FS	34403	650 x 1050 x 225
5/0 FS	34404	650 x 1300 x 225

1/2 FS	34410	950 x 300 x 225
2/2 FS	34411	950 x 550 x 225
3/2 FS	34412	950 x 800 x 225
4/2 FS	34413	950 x 1050 x 225
5/2 FS	34414	950 x 1300 x 225

2/4 FS	34416	1250 x 550 x 225
3/4 FS	34417	1250 x 800 x 225
4/4 FS	34418	1250 x 1050 x 225
5/4 FS	34419	1250 x 1300 x 225

2/5 FS	34421	1400 x 550 x 225
3/5 FS	34422	1400 x 800 x 225
4/5 FS	34423	1400 x 1050 x 225
5/5 FS	34424	1400 x 1300 x 225

WS cabinet

IP 55 

Colour: RAL 7035

→ Flanges must be ordered separately
see page 3 - 7

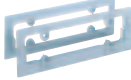
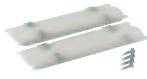
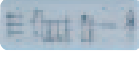
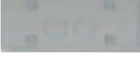
Type	Ord.no.	External dimensions HxWxD mm
------	---------	---------------------------------

2/2 WS	34821	970 x 570 x 360
3/2 WS	34822	970 x 820 x 360
4/2 WS	34823	970 x 1070 x 360
5/2 WS	34824	970 x 1320 x 360

2/4 WS	34841	1270 x 570 x 360
3/4 WS	34842	1270 x 820 x 360
4/4 WS	34843	1270 x 1070 x 360
5/4 WS	34844	1270 x 1320 x 360

Ordering Information - Wall cabinets

Accessories

Article	Type	Ord.no.	Article	Type	Ord.no.
A cabinets					
Insulating frame for cabinet connection for the side flange knock-outs (in order to maintain the double insulation when cabinets are assembled next to each other) (with connection materials).		ZX 455 39192	Latch plate For T-handle or latch type handle (also order ZH 800)		ZH 222 45702
Insulating frame for cabinet connection for the top / bottom flange cut-outs (in order to maintain the double insulation when cabinets are assembled one above the other).		ZX 454 39199	T-handle without lock		ZH 138 60498
Membrane flange* for feeding in cables		ZB 43 38183	with lock		ZH 139 60499
Nipple flange* for feeding in cables		ZB 40 38195	Latch handle without lock		ZH 140 60500
			with lock		ZH 141 60501
A and U cabinets			Cabinet handle closure for semi-cylinder, with lead-sealable cap		ZH 228 45709
Standard closure*		ZB 113 38478	Dummy insert instead of a semi-cylinder		ZH 142 60502
		ZB 111 38479	Cabinet handle closure Senate lock Berlin		ZH 227 45708
Safety cylinder with 2 keys			Cabinet handle closure Closure EO 12		ZH 203 45703
Espagnolette closure Espagnolette closure in conjunction with standard closure and safety cylinder for retrofitting into A, B and U cabinets		ZX 456 39586 ZX 457 39587 ZX 458 39588 ZX 459 39589 ZX 460 39590 ZX 461 39591	Espagnolette closure Espagnolette closure in conjunction with ZH 203, ZH 220, ZH 221, ZH 222, ZH 227 and ZH 228 lock system		ZH 220 45700 ZH 221 45701 ZH 222 45702 ZH 227 45708 ZH 228 45709
for overall height 0 (4 rows)			for overall height 0 (4 rows)		ZX 440 39570
for overall height 1 (5 rows)			for overall height 1 (5 rows)		ZX 441 39571
for overall height 2 (6 rows)			for overall height 2 (6 rows)		ZX 442 39572
for overall height 3 (7 rows)			for overall height 3 (7 rows)		ZX 443 39573
for overall height 4 (8 rows)			for overall height 4 (8 rows)		ZX 444 39574
for overall height 5 (9 rows)			for overall height 5 (9 rows)		ZX 445 39575
Set for installing actuation possibilities in conjunction with ZH 220/ZH 221/ZH 222		ZH 800 38544	FS cabinets		
Latch plate for double-bit pin 3mm standard and 5 mm (also order ZH 800)		ZH 220 45700	Flange IP 54 Attention: Always order flanges as additional items! The cabinet has one flange cut-out per panel width on top. Knockouts are provided for the side and bottom.		
Operating pin double bit 3 mm double bit 5 mm		ZH 130 60490 ZH 131 60491	Closing flange 1 pcs. 10 pcs.		ZP 55 38536 ZP 55P10 62450
Latch plate For triangular and square operating pins and also for Daimler-Benz insert (also order ZH 800)		ZH 221 45701	Flange for M screw fittings 1 x M 63 / M 50, 2 x M 32 / M 20 1 pcs. 10 pcs.		ZP 56 38534 ZP 56P10 62451
Operating pin Triangular 7 mm Triangular 8 mm		ZH 132 60492 ZH 133 60493	Flange for M screw fittings 2 x M 32 / M 20 4 x M 25, 5 x M 20 1 pcs. 10 pcs.		ZP 57 38535 ZP 57P10 62452
Square 6 mm		ZH 134 60494	Membrane flange 1 pcs. 10 pcs.		ZP 58 38538 ZP 58P10 62453
Square 7 mm		ZH 135 60495	Touch guard* only for Single meter panels Double meter panels		ZW 123 39505 ZW 124 39506
Square 8 mm		ZH 136 60496	Insulating frame for the side flange knockouts of the FS cabinets (in order to maintain the double insulation when assembling cabinets)		ZW 194 39394
Daimler-Benz insert		ZH 137 60497			

Article	Type	Ord.no.
Busbar connector (with insulating frame) for FS cabinets (cabinet – cabinet) 1 set 4-pole, 250 A 1 set 5-pole, 250 A		
	ZW 185	60355
	ZW 186	60356

1 set 5-pole, 355 A	ZW 188	60358
---------------------	--------	-------

Connection material 1 set for cabinet combination	ZW 191	39391
---	--------	-------

WS cabinets

Flange IP 55 (Attention: always order flanges as separate items!)

Order one flange each for the
top and bottom per panel width.

Closing flange

1 pcs.
10 pcs.



ZW 51	39451
ZW 51P10	62466

Nipple flange

1 pcs.
10 pcs.



ZW 52	39452
ZW 52P10	62467

Flange for M screw fittings

4 x M25 / M20, 12 x M20

1 pcs.
10 pcs.



ZW 53	39453
ZW 53P10	62468

Sponge rubber flange

1 pcs.
10 pcs.



ZW 54	39454
ZW 54P10	62469

Insulating frame

for the side flange knockouts of the
WS cabinets (in order to maintain
the double insulation when
assembling cabinets)



ZW 194	39394
--------	-------

Connection material 1 set for cabinet combination	ZW 191	393901
---	--------	--------

FS, WS cabinets

Lock replacement parts

Latch plate*

for double bit pin
3 mm (standard) and 5 mm



ZH 220	45700
--------	-------

Operating pin

double bit 3 mm*
double bit 5 mm



ZH 130	60490
ZH 131	60491

Latch plate

for triangular and square operating pins
and for Daimler-Benz insert



ZH 221	45701
--------	-------

Operating pins

Triangular 7 mm
Triangular 8 mm



ZH 132	60492
ZH 133	60493

Square 6 mm
Square 7 mm
Square 8 mm



ZH 134	60494
ZH 135	60495
ZH 136	60496

Daimler-Benz insert



ZH 137	60497
--------	-------

Article	Type	Ord.no.
---------	------	---------

Operating keys

Double bit

3 mm*
5 mm



ZH 160	60660
ZH 161	60661

Triangular

7 mm
8 mm



ZH 157	60657
ZH 158	60658

Square

6 mm
7 mm
8 mm



ZH 162	60662
ZH 163	60663
ZH 164	60664

Daimler-Benz



ZH 165	60665
--------	-------

Universal key

double bit 3 mm/5 mm

ZH 91	66091
-------	-------

Triangular 8 mm

Square 6 mm/8 mm



Latch plate

for T-handle and latch type handle



ZH 222	45702
--------	-------

T-handle

without lock, complete



ZH 138	60498
--------	-------

with lock, complete



ZH 139	60499
--------	-------

Latch handle

without lock, complete



ZH 140	60500
--------	-------

with lock, complete



ZH 141	60501
--------	-------

Cabinet handle closure

for semi-cylinder, 45 mm,
with lead sealable cap



ZH 223	45703
--------	-------

Dummy insert

(instead of a semi-cylinder)



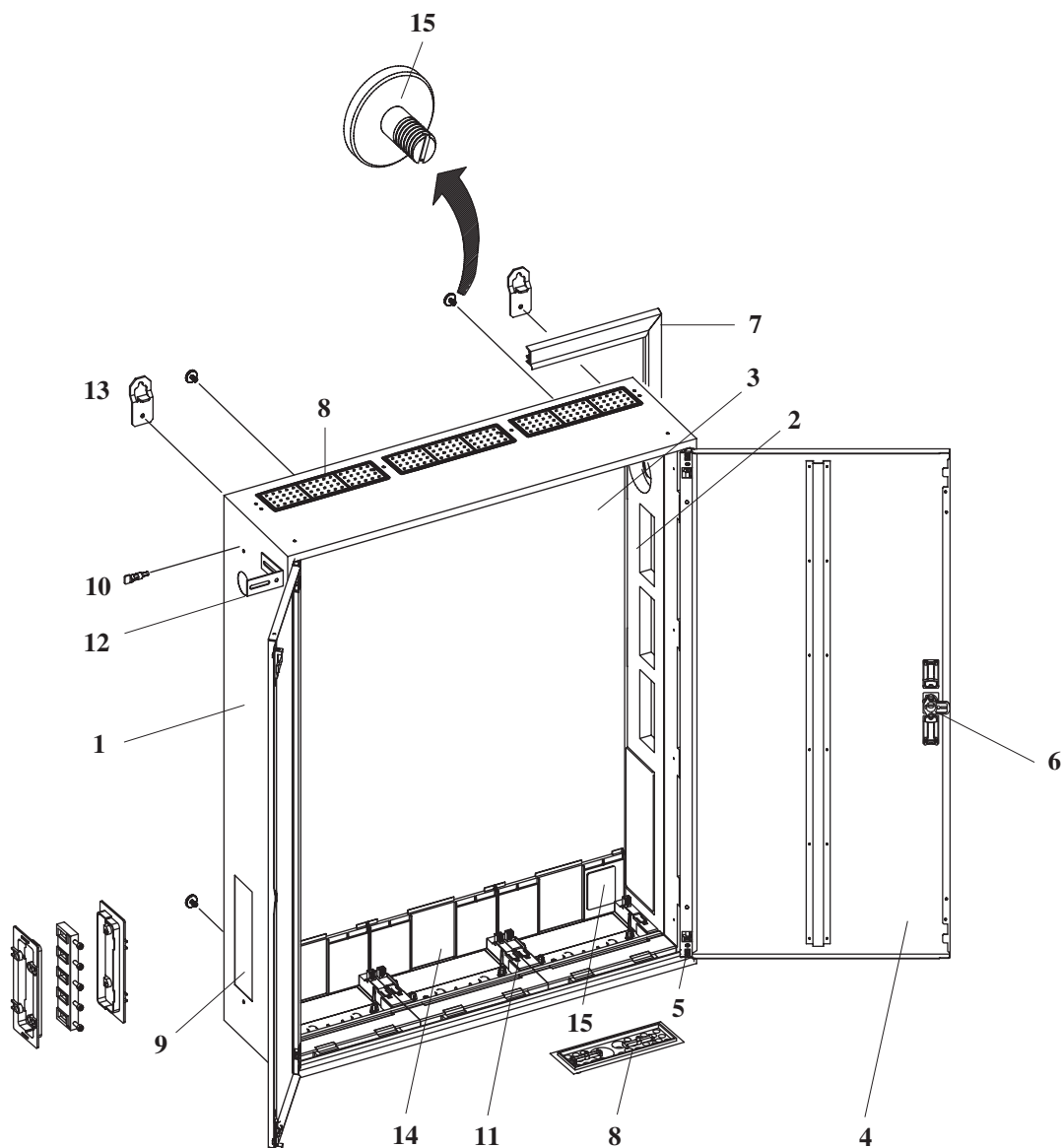
ZH 142	60502
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*Spare part included in the scope of delivery

→ Transparent doors see page 3-23

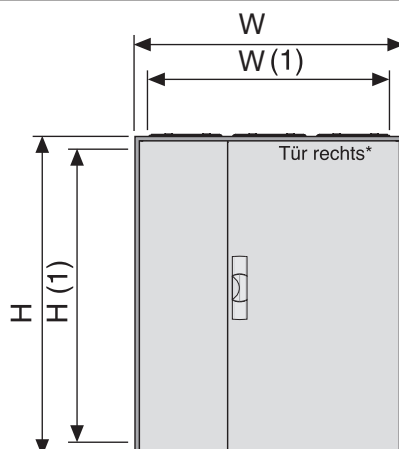
Technical Information - A Cabinet

1. The cabinet is made of sheet steel (1 mm) and is powder-coated (RAL 9016). The extraordinary stability is achieved by the profiled cabinet frame. This enables easy installation – either surface-mounted, partially recessed or flush-mounted.
2. The protective insulation is guaranteed by an inserted plastic profile.
3. Plastic rear wall.
4. The door (thickness 1.25 mm) provides great stability thanks to its special shape in the hinge area and on the closing side.
5. The door can be readjusted with the special hinge.
6. With a special set of accessories, the standard closure can be converted into a three-point espagnolette closure or to a handle closure with semi-cylinder.
7. If local conditions demand, a frame (assembly set) can be retrofitted with a surface-mounted or partially recessed cabinet.
8. The flange openings on top are closed with the membrane flange. There is a nipple flange ZB 40 for the infeed.
9. Knockouts are prepunched on the sides for busbar connections from cabinet to cabinet and on the bottom for incoming cables.
10. The cabinet sides have knock-outs on the left and right for connecting the cabinets next to each other. Captive cover caps maintain protective insulation. Angles can also be attached here.
11. Thanks to the individual panel holders, the cabinet offers optimum connection space.
12. Angles are available as accessories to enable cabinets to be easily installed in wall niches and in prefabricated walls. Grid screws for the trim frame are attached to the angle.
13. As well as with internal fastenings, the cabinet can also be installed with external mounting brackets.
14. Knock-outs are provided for inserting the cable from the rear.
15. Access to the wall attachment and to the adjustment screw for stepless depth adjustment is guaranteed at all times.



Technical Information - A Cabinet

Dimensions, weight, power loss



Depth (external) 215

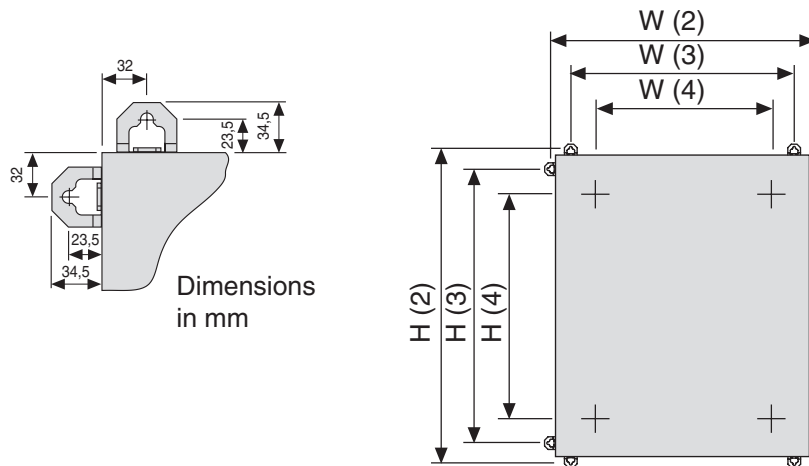
Type	External H x W in mm	Internal (clear dimension) H (1) x W (1) in mm	Door, left ¹ Height x width in mm	Door, right ¹ Height x width in mm	Weight in kg	Power loss in Watts ²
1/00 A	500 x 300	452 x 252	—	471.4 x 272	6.2	46
2/00 A	500 x 550	452 x 502	—	471.4 x 522	8.4	64
3/00 A	500 x 800	452 x 752	471.4 x 260	471.4 x 510	12.2	99
4/00 A	500 x 1050	452 x 1002	471.4 x 510	471.4 x 510	15.8	106
5/00 A	500 x 1300	452 x 1252	471.4 x 510	471.4 x 760	19.6	127
1/0 A	650 x 300	602 x 252	—	621.4 x 272	7.8	51
2/0 A	650 x 550	602 x 502	—	621.4 x 522	11.4	74
3/0 A	650 x 800	602 x 752	621.4 x 260	621.4 x 510	15.6	107
4/0 A	650 x 1050	602 x 1002	621.4 x 510	621.4 x 510	16.8	125
5/0 A	650 x 1300	602 x 1252	621.4 x 510	621.4 x 760	24.0	157
1/1 A	800 x 300	752 x 252	—	771.4 x 272	9.8	57
2/1 A	800 x 550	752 x 502	—	771.4 x 522	13.4	85
3/1 A	800 x 800	752 x 752	771.4 x 260	771.4 x 510	18.0	118
4/1 A	800 x 1050	752 x 1002	771.4 x 510	771.4 x 510	23.8	149
5/1 A	800 x 1300	752 x 1252	771.4 x 510	771.4 x 760	28.0	192
1/2 A	950 x 300	902 x 252	—	921.4 x 272	10.8	64
2/2 A	950 x 550	902 x 502	—	921.4 x 522	15.6	97
3/2 A	950 x 800	902 x 752	921.4 x 260	921.4 x 510	21.0	130
4/2 A	950 x 1050	902 x 1002	921.4 x 510	921.4 x 510	26.8	175
5/2 A	950 x 1300	902 x 1252	921.4 x 510	921.4 x 760	31.2	230
1/3 A	1100 x 300	1052 x 252	—	1071.4 x 272	12.0	73
2/3 A	1100 x 550	1052 x 502	—	1071.4 x 522	17.6	109
3/3 A	1100 x 800	1052 x 752	1071.4 x 260	1071.4 x 510	23.6	147
4/3 A	1100 x 1050	1052 x 1002	1071.4 x 510	1071.4 x 510	30.0	204
5/3 A	1100 x 1300	1052 x 1252	1071.4 x 510	1071.4 x 760	35.2	268
1/4 A	1250 x 300	1202 x 252	—	1221.4 x 272	14.0	81
2/4 A	1250 x 550	1202 x 502	—	1221.4 x 522	19.2	118
3/4 A	1250 x 800	1202 x 752	1221.4 x 260	1221.4 x 510	26.0	166
4/4 A	1250 x 1050	1202 x 1002	1221.4 x 510	1221.4 x 510	32.4	232
5/4 A	1250 x 1300	1202 x 1252	1221.4 x 510	1221.4 x 760	40.2	303
1/5 A	1400 x 300	1352 x 252	—	1371.4 x 272	15.0	88
2/5 A	1400 x 550	1352 x 502	—	1371.4 x 522	22.4	126
3/5 A	1400 x 800	1352 x 752	1371.4 x 260	1371.4 x 510	29.2	189
4/5 A	1400 x 1050	1352 x 1002	1371.4 x 510	1371.4 x 510	35.2	263
5/5 A	1400 x 1300	1352 x 1252	1371.4 x 510	1371.4 x 760	44.0	339

¹ double doors in the case of cabinets having three panel widths or more

² in the case of wall mounting in accordance with VDE 0660 Part 504

Technical Information - A Cabinet

Mounting Dimensions



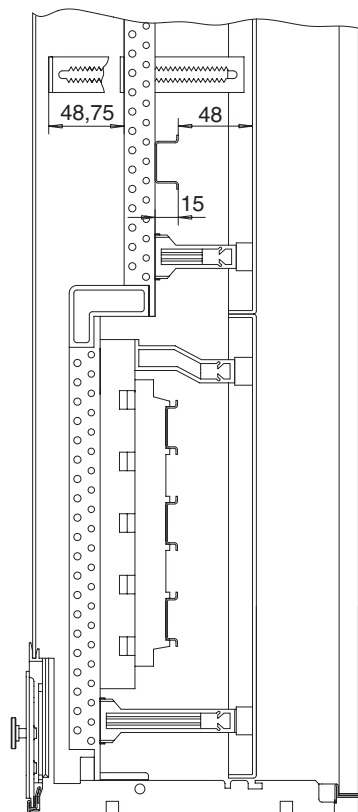
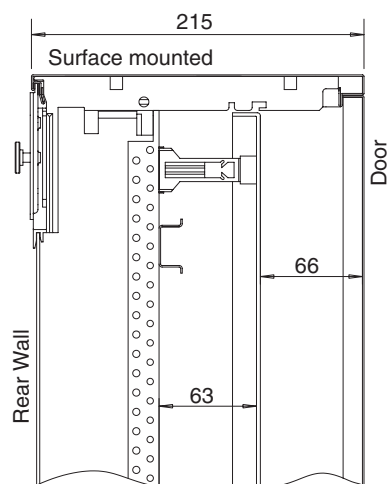
Type	External fastening		Internal fastening		
	H (2) in mm	H (3) in mm	W (2) in mm	W (3) in mm	H (4) x W (4) in mm
1/00 A	547	436	347	236	402 x 170
2/00 A	547	436	597	486	402 x 420
3/00 A	547	436	847	736	402 x 670
4/00 A	547	436	1097	986	402 x 920
5/00 A	547	436	1347	1236	402 x 1170
1/0 A	697	586	347	236	552 x 170
2/0 A	697	586	597	486	552 x 420
3/0 A	697	586	847	736	552 x 670
4/0 A	697	586	1097	986	552 x 920
5/0 A	697	586	1347	1236	552 x 1170
1/1 A	847	736	347	236	702 x 170
2/1 A	847	736	597	486	702 x 420
3/1 A	847	736	847	736	702 x 670
4/1 A	847	736	1097	986	702 x 920
5/1 A	847	736	1347	1236	702 x 1170
1/2 A	997	886	347	236	852 x 170
2/2 A	997	886	597	486	852 x 420
3/2 A	997	886	847	736	852 x 670
4/2 A	997	886	1097	986	852 x 920
5/2 A	997	886	1347	1236	852 x 1170
1/3 A	1147	1036	347	236	1002 x 170
2/3 A	1147	1036	597	486	1002 x 420
3/3 A	1147	1036	847	736	1002 x 670
4/3 A	1147	1036	1097	986	1002 x 920
5/3 A	1147	1036	1347	1236	1002 x 1170
1/4 A	1297	1186	347	236	1152 x 170
2/4 A	1297	1186	597	486	1152 x 420
3/4 A	1297	1186	847	736	1152 x 670
4/4 A	1297	1186	1097	986	1152 x 920
5/4 A	1297	1186	1347	1236	1152 x 1170
1/5 A	1447	1336	347	236	1302 x 170
2/5 A	1447	1336	597	486	1302 x 420
3/5 A	1447	1336	847	736	1302 x 670
4/5 A	1447	1336	1097	986	1302 x 920
5/5 A	1447	1336	1347	1236	1302 x 1170

Technical Information - A Cabinet

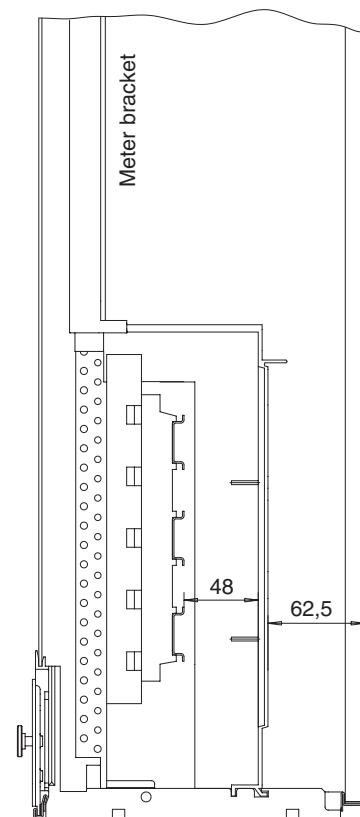
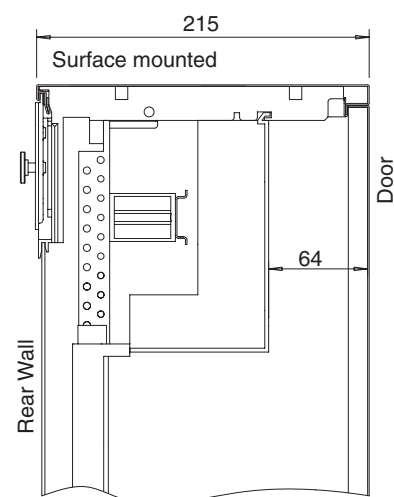
Dimensions, standard panel installation

With
distribution
board panel

(dimensions in mm)



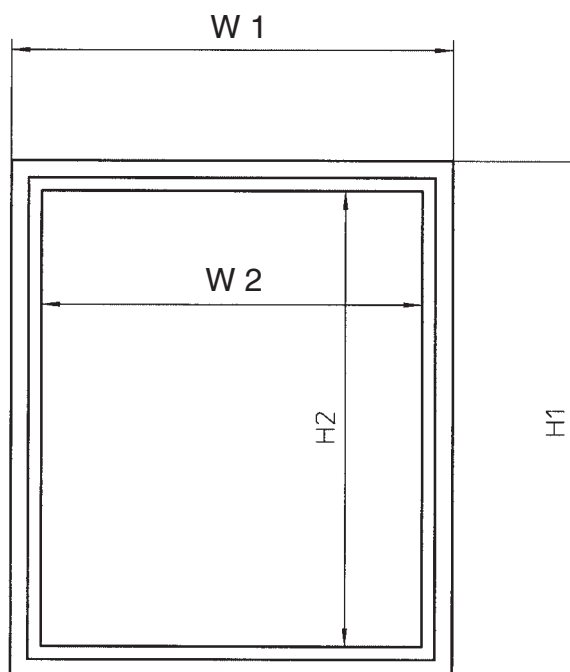
With meter
panel



03

Technical Information - U Cabinet

Dimensions, weight, power loss

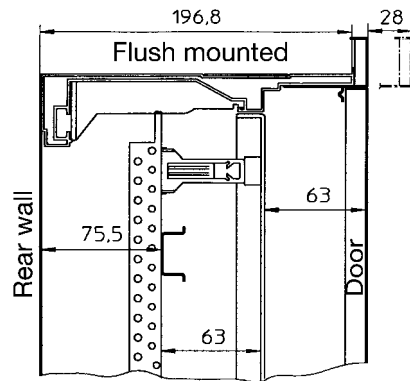


Type	Niche dimensions H x W x D	Power loss in Watts	Weight kg	External dimensions H1 x W1 (trim frame)	Internal dimensions H2 x W2
1/1 U	815 x 315 x 200	45	13.2	841 x 341	752 x 252
2/1 U	815 x 565 x 200	73	19.0	841 x 591	752 x 502
3/1 U	815 x 815 x 200	107	25.0	841 x 841	752 x 752
4/1 U	815 x 1065 x 200	133	32.4	841 x 1091	752 x 1002
5/1 U	815 x 1315 x 200	168	38.8	841 x 1341	752 x 1252
1/2 U	965 x 315 x 200	52	15.2	991 x 341	902 x 252
2/2 U	965 x 565 x 200	85	22.2	991 x 591	902 x 502
3/2 U	965 x 815 x 200	116	29.8	991 x 841	902 x 752
4/2 U	965 x 1065 x 200	154	37.8	991 x 1091	902 x 1002
5/2 U	965 x 1315 x 200	204	44.4	991 x 1341	902 x 1252
1/3 U	1115 x 315 x 200	59	17.0	1141 x 341	1052 x 252
2/3 U	1115 x 565 x 200	97	24.8	1141 x 591	1052 x 502
3/3 U	1115 x 815 x 200	130	34.0	1141 x 841	1052 x 752
4/3 U	1115 x 1065 x 200	178	41.8	1141 x 1091	1052 x 1002
5/3 U	1115 x 1315 x 200	237	49.4	1141 x 1341	1052 x 1252
1/4 U	1265 x 315 x 200	66	18.8	1291 x 341	1202 x 252
2/4 U	1265 x 550 x 200	107	28.0	1291 x 591	1202 x 502
3/4 U	1265 x 815 x 200	147	36.8	1291 x 841	1202 x 752
4/4 U	1265 x 1065 x 200	206	46.6	1291 x 1091	1202 x 1002
5/4 U	1265 x 1315 x 200	272	57.4	1291 x 1341	1202 x 1252
1/5 U	1415 x 315 x 200	73	21.4	1441 x 341	1352 x 252
2/5 U	1415 x 565 x 200	114	31.6	1441 x 591	1352 x 502
3/5 U	1415 x 815 x 200	166	41.4	1441 x 841	1352 x 752
4/5 U	1415 x 1065 x 200	234	51.2	1441 x 1091	1352 x 1002
5/5 U	1415 x 1315 x 200	308	62.6	1441 x 1341	1352 x 1252

Technical Information - U Cabinet

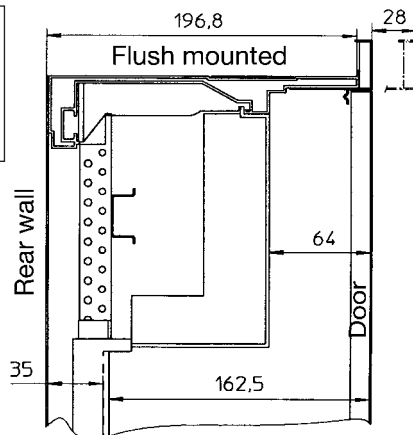
Dimensions, weight, power loss

With
distribution
board panel



(dimensions in mm)

With meter
panel

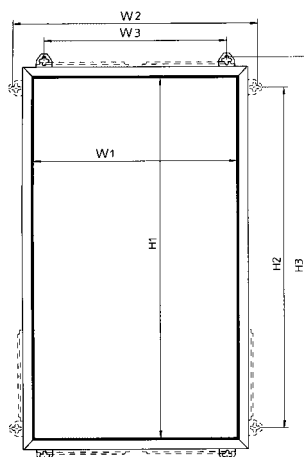


03

Technical Information - FS Wall Cabinet

Dimensions, weight, power loss

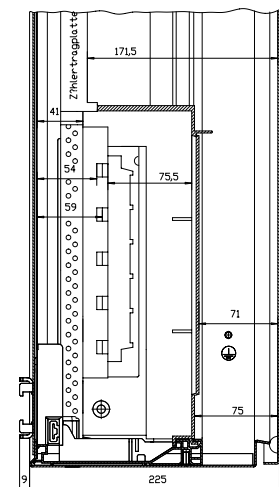
The external mounting brackets can be retrofitted vertically or horizontally from the outside and are supplied with the cabinets.



Type	Weight kg	Power loss in Watts	External dimensions HxWxD	Internal dimensions H 1 x W 1	External fastening dimensions H 2 x W 2	External fastening dimensions H 3 x W 3
2/0FS	21,5	74	650 x 550 x 225	602 x 502	543 x 581	697 x 446
3/0FS	27,5	104	650 x 800 x 225	602 x 752	543 x 831	697 x 696
4/0FS	34,0	125	650 x 1050 x 225	602 x 1002	543 x 1081	697 x 946
5/0FS	40,0	157	650 x 1300 x 225	602 x 1252	543 x 1331	697 x 1196
1/2FS	19,0	64	950 x 300 x 225	902 x 252	843 x 331	997 x 196
2/2FS	27,0	97	950 x 550 x 225	902 x 581	843 x 581	997 x 446
3/2FS	35,0	130	950 x 800 x 225	902 x 752	843 x 831	997 x 696
4/2FS	45,0	175	950 x 1050 x 225	902 x 1002	843 x 1081	997 x 946
5/2FS	52,5	230	950 x 1300 x 225	902 x 1252	843 x 1331	997 x 1196
2/4FS	33,5	118	1250 x 550 x 225	1202 x 502	1143 x 581	1297 x 446
3/4FS	43,0	166	1250 x 800 x 225	1202 x 752	1143 x 831	1297 x 696
4/4FS	56,0	232	1250 x 1050 x 225	1202 x 1002	1143 x 1081	1297 x 946
5/4FS	66,0	303	1250 x 1300 x 225	1202 x 1252	1143 x 1331	1297 x 1196
2/5FS	38,0	126	1400 x 550 x 225	1352 x 502	1293 x 581	1447 x 446
3/5FS	49,0	189	1400 x 800 x 225	1352 x 752	1293 x 831	1447 x 696
4/5FS	61,0	263	1400 x 1050 x 225	1352 x 1002	1293 x 1081	1447 x 946
5/5FS	72,0	339	1400 x 1300 x 225	1352 x 1252	1293 x 1331	1447 x 1196

Standard panel installation in an FS-Cabinet

With
meter
panel

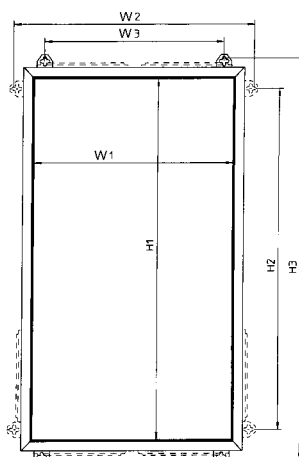


The FS cabinet is in all-insulated sheet steel cabinet with inserted protective insulation and a standard panel installation set fitted ex-factory.

Technical Information - WS Wall Cabinet

Dimensions, weight, power loss

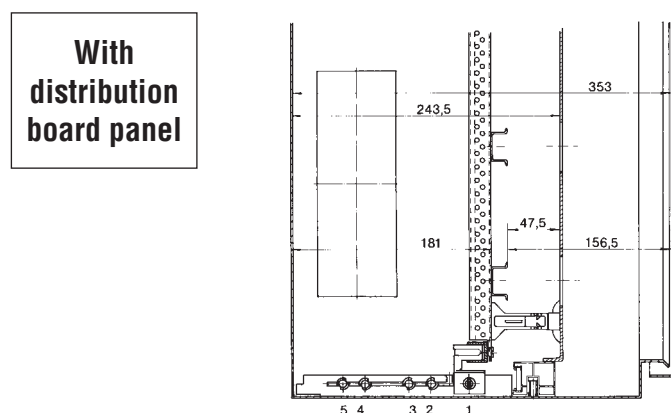
The external fastening brackets can be retrofitted vertically or horizontally from the outside and are supplied with the cabinets.



Type	Weight kg	Power loss in Watts	External dimensions HxWxD	Internal dimensions H 1 x W 1	External fastening dimensions H 2 x W 2	External fastening dimensions H 3 x W 3
2/2WS	38,0	107	970 x 570 x 360	902 x 502	866 x 617	1017 x 466
3/2WS	48,0	143	970 x 820 x 360	902 x 752	866 x 867	1017 x 716
4/2WS	60,5	193	970 x 1070 x 360	902 x 1002	866 x 1117	1017 x 966
5/2WS	71,0	253	970 x 1320 x 360	902 x 1252	866 x 1367	1017 x 1216
2/4WS	48,0	130	1270 x 570 x 360	1202 x 502	1166 x 617	1317 x 466
3/4WS	61,0	183	1270 x 820 x 360	1202 x 752	1166 x 867	1317 x 716
4/4WS	76,0	255	1270 x 1070 x 360	1202 x 1002	1166 x 1117	1317 x 966
5/4WS	91,0	333	1270 x 1320 x 360	1202 x 1252	1166 x 1367	1317 x 1216

03

Cross-section WS-Cabinets with distribution panel



Product Features - Wall cabinets

grounded, for indoor use

→ Mounting elements (standard panel installation set, mounting plate) see page 3-21

→ Transparent door for B cabinets, see page 2-23

→ For dimensions & technical details/specifications, see page 3-24

→ C/G/W cabinets manufactured in stainless steel V2A available on request



B cabinets

IP43 

Cabinet depth 215 mm

Empty cabinets for surface mounting, flush mounting and partially recessed mounting

- I_N 250A (355A¹⁾)
- Enclosure made of 1 mm sheet steel
- RAL 9016 powder-coated
- Prepared for the installation of standard panels or a mounting plate made of galvanised sheet steel
- Double-wing doors for cabinets 3 panels wide or more
- Door opening angle 130 degrees
- With standard closure ZB113
- Flange openings on top and knock outs are provided at the bottom and sides
- Membrane flanges mounted on top (one per panel width)



G cabinets

IP54 

Cabinet depth 225 mm

Empty cabinets for surface mounting and partially recessed mounting

- I_N 250A (355A¹⁾)
- Enclosure and door made of 1.5 mm sheet steel
- RAL 7035 powder-coated
- For the installation of standard panels or a mounting plate made of galvanised sheet steel
- Double-wing doors for cabinets 4 panels wide or more
- Door opening angle 160 degrees
- Doors with espagnolette closure
- Standard closure: double bit 3 mm
- One flange opening per panel width is cut out on top, knockouts are provided at the bottom and sides.
No side knockouts in the case of overall height 0.
- The top and bottom flange openings can optionally be closed with flange for metric screw fittings or membrane flange.
(Flanges must be ordered separately.)
- With external mounting brackets.

¹⁾ Evidence in accordance with IEC 60439-1 required depending on the switchgear combination

Product Features - Wall cabinets

grounded, for indoor use

→ **Mounting elements (standard panel installation set, mounting plate)**
see page 3-21

→ **For dimensions & technical details/specifications, see page 3-28**



C cabinets

IP54 $\frac{\perp}{\perp}$

Cabinet depth 260 mm

Empty cabinets for surface mounting and partially recessed mounting

- I_N 355A
- Enclosure and door made of 1.5 mm sheet steel
- RAL 7035 powder-coated
- For the installation of standard panels or a mounting plate made of galvanised sheet steel
- Double-wing doors for cabinets 4 panels wide or more
- Door opening angle 160 degrees
- Doors with espagnolette closure
- Standard closure: double bit 3 mm
- One flange opening per panel width is cut out on top, knockouts are provided at the bottom and sides.
No side knockouts in the case of overall height 0.
- The top and bottom flange openings can optionally be closed with a flange for metric screw fittings or membrane flange.
(Flanges must be ordered separately.)
- With external mounting brackets



W cabinets

IP55 $\frac{\perp}{\perp}$

Cabinet depth 360 mm

Empty cabinets for surface mounting and partially recessed mounting

- I_N 355A (630A¹⁾)
- Enclosure made of 1.5 mm sheet steel, door made of 2 mm sheet steel
- RAL 7035 powder-coated
- For the installation of standard panels or a mounting plate made of galvanised sheet steel
- Double-wing doors for cabinets 4 panels wide or more
- Door opening angle 120 degrees
- Doors with espagnolette closure
- Standard closure: double bit 3 mm
- One flange opening per panel width is cut out on top and bottom, knockouts are provided at the sides.
- The top and bottom flange openings can optionally be closed with a nipple flange, sponge rubber flange or closing flange.
(Flanges must be ordered separately.)
- With external mounting brackets.



W-01 cabinets

IP55 $\frac{\perp}{\perp}$

Cabinet depth 360 mm

Empty cabinets for surface mounting and partially recessed mounting

- I_N 355A (630A¹⁾)
- Enclosure made of 1.5 mm sheet steel, door made of 2 mm sheet steel
- RAL 7032 powder-coated
- Double-wing doors for cabinets 4 panels wide or more
- Door opening angle 120 degrees
- Doors with espagnolette closure
- Standard closure: double bit 3 mm
- With external mounting brackets
- Mounting plate included
- Gland Plate included

¹⁾ Evidence in accordance with IEC 60439-1 required depending on the switchgear combination

Product Features - Wall cabinets

System Overview

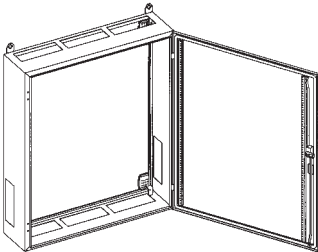
B cabinets

IP 43  Cabinet depth 215 mm



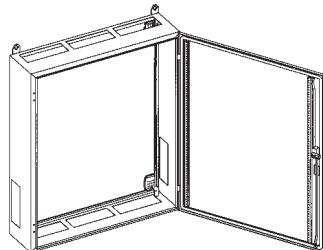
G cabinets

IP 54  Cabinet depth 225 mm



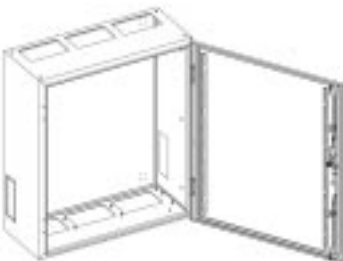
C cabinets

IP 54  Cabinet depth 260 mm



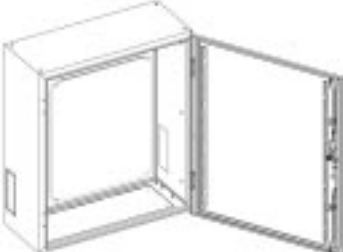
W cabinets

IP 55  Cabinet depth 360 mm



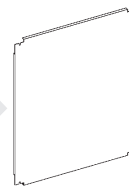
W-01 cabinets

IP 55  Cabinet depth 360 mm



→ Mounting elements
(standard panel installation
set, mounting plate)
see page 3-21

Distribution board panels /
combination sets / TNF modules



→ For combination sets & distribution
panels, see page 4-6

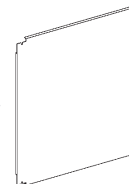
Mounting plate



Standard panel installation
set with touch guard

Distribution board panels /
combination sets /
TNF modules

→ For combination sets & distribution
panels, see page 4-6



Mounting plate

Ordering Information – Wall cabinets

grounded, for indoor use

→ Please order flanges separately, see page 3-22

→ For dimensions & technical details/specifications, see page 3-24, 3-27

B cabinet

IP 43 $\frac{1}{2}$

Colour: RAL 9016

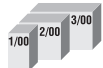
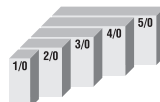
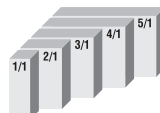
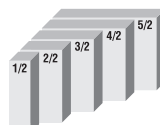
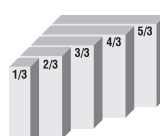
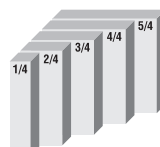
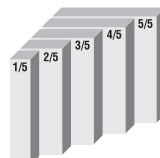
Prepared for installation of standard panels with touch guard

G cabinet

IP 54 $\frac{1}{2}$

Colour: RAL 7035

Empty cabinet

Overall height	Rows	Panels	PLE	Type	Ord.no.	External dimensions HxWxD mm	Type	Ord.no.	External dimensions HxWxD mm
500 mm	3								
		1	36	1/00B	36360	500 x 300 x 215			
		2	72	2/00B	36361	500 x 550 x 215			
		3	108	3/00B	36362	500 x 800 x 215			
		4	144						
		5	180						
650 mm	4								
		1	48	1/0 B	36370	650 x 300 x 215	2/0 G	34361	650 x 550 x 225
		2	96	2/0 B	36371	650 x 550 x 215	3/0 G	34362	650 x 800 x 225
		3	144	3/0 B	36372	650 x 800 x 215	4/0 G	34363	650 x 1050 x 225
		4	192	4/0 B	36373	650 x 1050 x 215	5/0 G	34364	650 x 1300 x 225
		5	240	5/0 B	36374	650 x 1300 x 215			
800 mm	5								
		1	60	1/1 B	36380	800 x 300 x 215			
		2	120	2/1 B	36381	800 x 550 x 215			
		3	180	3/1 B	36382	800 x 800 x 215			
		4	240	4/1 B	36383	800 x 1050 x 215			
		5	300	5/1 B	36384	800 x 1300 x 215			
950 mm	6								
		1	72	1/2 B	36390	950 x 300 x 215	1/2 G	34370	950 x 300 x 225
		2	144	2/2 B	36391	950 x 550 x 215	2/2 G	34371	950 x 550 x 225
		3	216	3/2 B	36392	950 x 800 x 215	3/2 G	34372	950 x 800 x 225
		4	288	4/2 B	36393	950 x 1050 x 215	4/2 G	34373	950 x 1050 x 225
		5	360	5/2 B	36394	950 x 1300 x 215	5/2 G	34374	950 x 1300 x 225
1100 mm	7								
		1	84	1/3 B	36400	1100 x 300 x 215			
		2	168	2/3 B	36401	1100 x 550 x 215			
		3	252	3/3 B	36402	1100 x 800 x 215			
		4	336	4/3 B	36403	1100 x 1050 x 215			
		5	420	5/3 B	36404	1100 x 1300 x 215			
1250 mm	8								
		1	96	1/4 B	36410	1250 x 300 x 215	2/4 G	34376	1250 x 550 x 225
		2	192	2/4 B	36411	1250 x 550 x 215	3/4 G	34377	1250 x 800 x 225
		3	288	3/4 B	36412	1250 x 800 x 215	4/4 G	34378	1250 x 1050 x 225
		4	384	4/4 B	36413	1250 x 1050 x 215	5/4 G	34379	1250 x 1300 x 225
		5	480	5/4 B	36414	1250 x 1300 x 215			
1400 mm	9								
		1	108	1/5 B	36420	1400 x 300 x 215	2/5G	34381	1400 x 550 x 225
		2	216	2/5 B	36421	1400 x 550 x 215	3/5G	34382	1400 x 800 x 225
		3	324	3/5 B	36422	1400 x 800 x 215	4/5G	34383	1400 x 1050 x 225
		4	432	4/5 B	36423	1400 x 1050 x 215	5/5G	34384	1400 x 1300 x 225
		5	540	5/5 B	36424	1400 x 1300 x 215			

(Dimensions in mm)

Ordering Information – Wall cabinets

grounded, for indoor use

C cabinet

IP54 

Colour: RAL 7035
Empty cabinet

→ Please order flanges
separately, see page 3-22

Type	Ord.no.	External dimensions HxWxD mm
------	---------	---------------------------------

2/0C	34670	650 x 550 x 260
3/0C	34671	650 x 800 x 260
4/0C	34672	650 x 1050 x 260
5/0C	34673	650 x 1300 x 260

W cabinet

IP55 

Colour: RAL 7035
Empty cabinet

→ Please order flanges
separately, see page 3-22

Type	Ord.no.	External dimensions HxWxD mm
------	---------	---------------------------------

2/2W	34721	970 x 570 x 360
3/2W	34722	970 x 820 x 360
4/2W	34723	970 x 1070 x 360
5/2W	34724	970 x 1320 x 360

2/4W	34741	1270 x 570 x 360
3/4W	34742	1270 x 820 x 360
4/4W	34743	1270 x 1070 x 360
5/4W	34744	1270 x 1320 x 360

W 01 cabinet

IP55 

Colour: RAL 7032
cabinet with mounting plate and gland plate

Type	Ord.no.	External dimensions HxWxD mm
------	---------	---------------------------------

2/2 W-01	39396	970 x 820 x 360
3/2 W-01	34385	970 x 1070 x 360
4/2 W-01	34386	970 x 1320 x 360

2/4 W-01	34400	1270 x 570 x 360
3/4 W-01	34387	1270 x 820 x 360
4/4 W-01	34388	1270 x 1070 x 360
5/4 W-01	34398	1270 x 1320 x 360

2/5C	34695	1400 x 550 x 260
3/5C	34696	1400 x 800 x 260
4/5C	34697	1400 x 1050 x 260
5/5C	34698	1400 x 1300 x 260

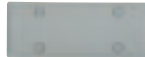
Ordering Information – Wall cabinets

grounded, for indoor use

B, C and G cabinets Mounting plate 1.5 mm sheet steel galvanised			W cabinet: Mounting plate 1.5 mm sheet steel, galvanised			G cabinet: Standard panel installation set			C cabinet: Standard panel installation set			W cabinet: Standard panel installation set		
Type	Ord.no.	External dimensions HxW mm	Type	Ord.no.	External dimensions HxW mm	Type	Ord.no.	Type	Ord.no.	Type	Ord.no.	Type	Ord.no.	
						→ For combination sets, distribution panels, see page 4-1			→ For combination sets, distribution panels, see page 4-1			→ For combination sets, distribution panels, see page 4-1		
GM20	34473	600 x 500				GB20	34436	CB20	34575					
GM30	34475	600 x 750				GB30	34437	CB30	34579					
GM40	34475	600 x 1000				GB40	34438	CB40	34583					
GM50	34476	600 x 1250				GB50	34439	CB50	34587					
GM12	34482	900 x 250				GB12	34445							
GM22	34483	900 x 500	WM22	34752	867 x 495	GB22	34446	CB22	34576	WB22	34852			
GM32	34484	900 x 750	WM32	34753	867 x 745	GB32	34447	CB32	34580	WB32	34853			
GM42	34485	900 x 1000	WM42	34754	867 x 995	GB42	34448	CB42	34584	WB42	34854			
GM52	34486	900 x 1250	WM52	34755	867 x 1245	GB52	34449	CB52	34588	WB52	34855			
GM24	34488	1200 x 500	WM24	34762	1167 x 495	GB24	34451	CB24	34577	WB24	34862			
GM34	34489	1200 x 750	WM34	34763	1167 x 745	GB34	34452	CB34	34581	WB34	34863			
GM44	34490	1200 x 1000	WM44	34764	1167 x 995	GB44	34453	CB44	34585	WB44	34864			
GM54	34491	1200 x 1250	WM54	34765	1167 x 1245	GB54	34454	CB54	34589	WB54	34865			
GM25	34493	1350 x 500				GB25	34456	CB25	34578					
GM35	34494	1350 x 750				GB35	34457	CB35	34582					
GM45	34495	1350 x 1000				GB45	34458	CB45	34586					
GM55	34496	1350 x 1250				GB55	34459	CB55	34590					

Ordering Information – Wall cabinets

Accessories

Article	Type	Ord.no.	Article	Type	Ord.no.
B cabinets			G, C cabinets		
External mounting bracket 4 pcs.		ZP 74P4 62636	Flange IP 54 Attention: always order as an additional item!		
1 set of connection material cabinet – cabinet connection		ZX 131 39131	Metal Gland Plate		ZP 54E 72166
Nipple flanges for feeding in cables		ZB 40 38195	Closing flange 1 pcs. 10 pcs.		ZP 55 38536 ZP 55P10 62450
Membrane flange* for feeding in cables		ZB 43 38183	Flange for M screw fittings 1 x M 63 / M 50, 2 x M 32 / M 20 1 pcs. 10 pcs.		ZP 56 38534 ZP 56P10 62451
Metal Gland Plate		ZP 53E 72165	Flange for M screw fittings 2 x M 32 / M 20 4 x M 25, 5 x M 20 1 pcs. 10 pcs.		ZP 57 38535 ZP 57P10 62452
Lock parts			Membrane flange 1 pcs. 10 pcs.		ZP 58 38538 ZP 58P10 62453
Standard closure*		ZB 113 38478	C, G and W cabinets		
Safety cylinder with 2 keys		ZB 111 38479	External mounting bracket* 4 pcs.		ZW 125P4 62461
Espagnolette closure in conjunction with standard closure and safety cylinder			Connection material 1 set for cabinet combination		ZW 190 39390
for overall height 0		ZX 456 39586	Door grounding set 10 mm ²		XZ 77 60118
for overall height 1		ZX 457 39587	N and PE bars with holder each with 6 x 16 mm ² screwable 21 x 1,5 - 4 mm ² plugable		ZK 523 38506
for overall height 2		ZX 458 39588	W cabinets		
for overall height 3		ZX 459 39589	Flange IP 55 Attention: always order as an additional item! Order one flange per cut-out per panel width at the top and bottom.		
for overall height 4		ZX 460 39590	Cover flange plate 1 pcs. 10 pcs.		ZW 51 39451 ZW 51P10 62466
for overall height 5		ZX 461 39591	Nipple flange 1 pcs. 10 pcs.		ZW 52 39452 ZW 52P10 62467
Set for installing actuation possibilities in conjunction with ZH 220/ZH 221/ZH 222		ZH 800 38544	Flange for M screw fittings 4 x M 25 / M 20, 12 x M 20 1 pcs. 10 pcs.		ZW 53 39453 ZW 53P10 62468
Cabinet handle closure Senate lock Berlin		ZH 227 45708	Sponge rubber flange 1 pcs. 10 pcs.		ZW 54 39454 ZW 54P10 62469
Cabinet handle closure Closure EO 12		ZH 203 45703			
Cabinethandle closure for semi-cylinder, lead-sealable		ZH 228 45709			
Espagnolette closure Espagnolette closure in conjunction with ZH 203, ZH 220, ZH 221, ZH 222, ZH 227 and ZH 228 lock system					
for overall height 0 (4 rows)		ZX 440 39570			
for overall height 1 (5 rows)		ZX 441 39571			
for overall height 2 (6 rows)		ZX 442 39572			
for overall height 3 (7 rows)		ZX 443 39573			
for overall height 4 (8 rows)		ZX 444 39574			
for overall height 5 (9 rows)		ZX 445 39575			

*Spare part included in the scope of delivery

Ordering Information – Wall cabinets

Accessories

Article	Type	Ord.no.
Lock replacement parts for G, C and W cabinets		
Latch plate for double bit pin 3mm* (standard) and 5 mm	 ZH 220	45700
Operating pin double bit 3 mm* double bit 5 mm	 ZH 130 ZH 131	60490 60491
Latch plate for triangular and square operating pins and for Daimler-Benz insert	 ZH 221	45701
Operating pins Triangular 7 mm Triangular 8 mm	 ZH 132 ZH 133	60492 60493
Square 6 mm Square 7 mm Square 8 mm	 ZH 134 ZH 135 ZH 136	60494 60495 60496
Daimler-Benz insert	 ZH 137	60497
Universal key Double bit 3 mm/5 mm Triangular 8 mm Square 6 mm/8 mm	 ZH 91	66091
Operating key		
Double bit 3 mm* 5 mm	 ZH 160 ZH 161	60660 60661
Triangular 7 mm 8 mm	 ZH 157 ZH 158	60657 60658
Square 6 mm 7 mm 8 mm	 ZH 162 ZH 163 ZH 164	60662 60663 60664
Daimler-Benz	 ZH 165	60665

Article	Type	Ord.no.
Latch plate for T-handle and latch type handle	 ZH 222	45702
T-handle without lock, complete with lock, complete	 ZH 138  ZH 139	60498 60499
Latch handle without lock, complete with lock, complete	 ZH 140  ZH 141	60500 60501
Cabinet handle closure for semi-cylinder, 45 mm, with lead-sealable cap	 ZH 223	45703
Dummy insert (instead of a semi- cylinder)	 ZH 142	60502
Espagnolette guide* with fastening material	 ZH 148	60508
Rubber seal* for double door	 ZW 195	39395
Hinge* Door opening angle 160 degrees for Series C, FS and G 3 pcs.	 ZW 106P3	62460

*Spare part included in the scope of delivery.

Transparent doors for U, A and B wall cabinets

for	Type	Art.No
1/00	TTS 100	62021
2/00	TTS 200	62022
3/00	TTS 300	62023
4/00	TTS 400	62024
5/00	TTS 500	62025



for	Type	Art.No
1/2	TTS 12	62036
2/2	TTS 22	62037
3/2	TTS 32	62038
4/2	TTS 42	62039
5/2	TTS 52	62040

1/0	TTS 10	62026
2/0	TTS 20	62027
3/0	TTS 30	62028
4/0	TTS 40	62029
5/0	TTS 50	62030

1/1	TTS 11	62031
2/1	TTS 21	62032
3/1	TTS 31	62033
4/1	TTS 41	62034
5/1	TTS 51	62035

for	Type	Art.No
1/5	TTS 15	62051
2/5	TTS 25	62052
3/5	TTS 35	62053
4/5	TTS 45	62054
5/5	TTS 55	62055

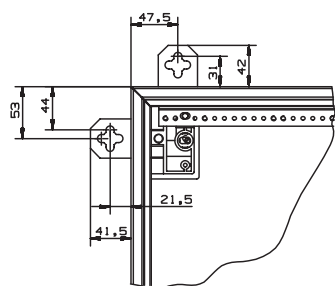
1/3	TTS 13	62041
2/3	TTS 23	62042
3/3	TTS 33	62043
4/3	TTS 43	62044
5/3	TTS 53	62045

1/1	TTS 14	62046
2/4	TTS 24	62047
3/4	TTS 34	62048
4/4	TTS 44	62049
5/4	TTS 54	62050

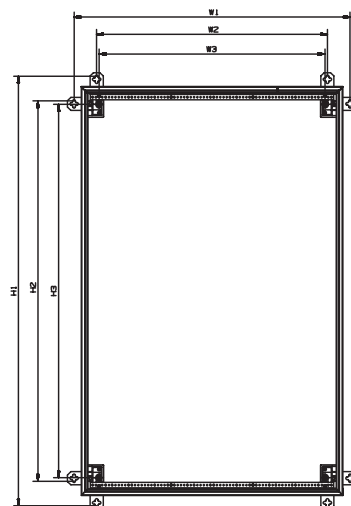
for	Type	Art.No
1/3U	TTS 13U	36341
2/3U	TTS 23U	36342
1/4U	TTS 14U	36343
2/4U	TTS 24U	36344
1/5U	TTS 15U	36345
2/5U	TTS 25U	36346

Technical Information - B Cabinet

Mounting Dimensions



Dimensions
in mm



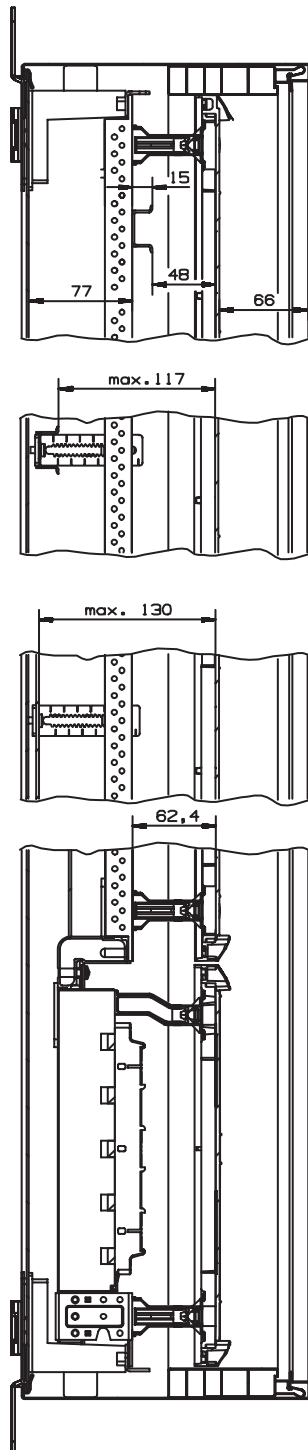
Type	External fastening H (1) in mm	H (2) in mm	W (1) in mm	W (2) in mm	Internal fastening H (3) x W (3) in mm
1/00 B	562	412	343	205	390 x 190
2/00 B	562	412	593	455	390 x 440
3/00 B	562	412	843	705	390 x 690
1/0 B	712	562	343	205	540 x 190
2/0 B	712	562	593	455	540 x 440
3/0 B	712	562	843	705	540 x 690
4/0 B	712	562	1093	955	540 x 940
5/0 B	712	562	1343	1205	540 x 1190
1/1 B	862	712	343	205	690 x 190
2/1 B	862	712	593	455	690 x 440
3/1 B	862	712	843	705	690 x 690
4/1 B	862	712	1093	955	690 x 940
5/1 B	862	712	1343	1205	690 x 1190
1/2 B	1012	862	343	205	840 x 190
2/2 B	1012	862	593	455	840 x 440
3/2 B	1012	862	843	705	840 x 690
4/2 B	1012	862	1093	955	840 x 940
5/2 B	1012	862	1343	1205	840 x 1190
1/3 B	1162	1012	343	205	990 x 190
2/3 B	1162	1012	593	455	990 x 440
3/3 B	1162	1012	843	705	990 x 690
4/3 B	1162	1012	1093	955	990 x 940
5/3 B	1162	1012	1343	1205	990 x 1190
1/4 B	1312	1162	343	205	1140 x 190
2/4 B	1312	1162	593	455	1140 x 440
3/4 B	1312	1162	843	705	1140 x 690
4/4 B	1312	1162	1093	955	1140 x 940
5/4 B	1312	1162	1343	1205	1140 x 1190
1/5 B	1312	1312	343	205	1290 x 190
2/5 B	1312	1312	593	455	1290 x 440
3/5 B	1312	1312	843	705	1290 x 690
4/5 B	1312	1312	1093	955	1290 x 940
5/5 B	1312	1312	1343	1205	1290 x 1190

Technical Information - B Cabinet

Dimensions standard panel installation

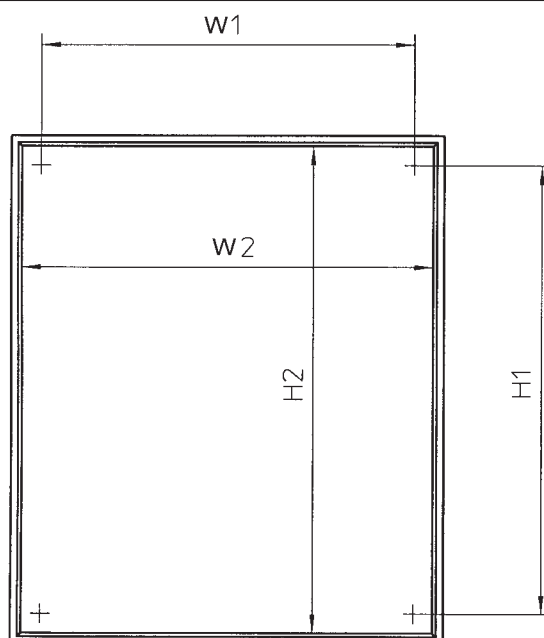
With
distribution
board panel

(dimensions in mm)



Technical Information B cabinet

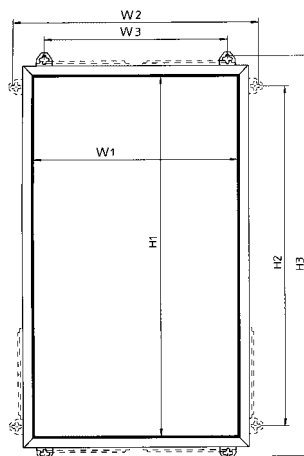
Dimensions, weight, power loss



Type	External dimensions H x W x D	Power loss in Watts	Weight kg	Internal fastening dimensions H1 x W1	Internal dimensions H 2 x W 2
1/00 B	500 x 300 x 215	46	7.4	388 x 188	452 x 252
2/00 B	500 x 550 x 215	64	9.6	388 x 438	452 x 502
3/00 B	500 x 800 x 215	99	13.4	388 x 688	452 x 752
1/0 B	650 x 300 x 215	51	9.0	538 x 188	602 x 252
2/0 B	650 x 550 x 215	74	12.6	538 x 438	602 x 502
3/0 B	650 x 800 x 215	107	16.8	538 x 688	602 x 752
4/0 B	650 x 1050 x 215	125	18.0	538 x 938	602 x 1002
5/0 B	650 x 1300 x 215	157	25.2	538 x 1188	602 x 1252
1/1 B	800 x 300 x 215	57	10.8	688 x 188	752 x 252
2/1 B	800 x 550 x 215	85	14.6	688 x 438	752 x 502
3/1 B	800 x 800 x 215	118	19.2	688 x 688	752 x 752
4/1 B	800 x 1050 x 215	149	24.8	688 x 938	752 x 1002
5/1 B	800 x 1300 x 215	192	29.2	688 x 1188	752 x 1252
1/2 B	950 x 300 x 215	64	12.0	838 x 188	902 x 252
2/2 B	950 x 550 x 215	97	16.8	838 x 438	902 x 502
3/2 B	950 x 800 x 215	130	22.2	838 x 688	902 x 752
4/2 B	950 x 1050 x 215	175	28.0	838 x 938	902 x 1002
5/2 B	950 x 1300 x 215	230	32.4	838 x 1188	902 x 1252
1/3 B	1100 x 300 x 215	73	13.2	988 x 188	1052 x 252
2/3 B	1100 x 550 x 215	109	18.8	988 x 438	1052 x 502
3/3 B	1100 x 800 x 215	147	24.8	988 x 688	1052 x 752
4/3 B	1100 x 1050 x 215	204	31.2	988 x 938	1052 x 1002
5/3 B	1100 x 1300 x 215	268	36.4	988 x 1188	1052 x 1252
1/4 B	1250 x 300 x 215	81	15.0	1138 x 188	1202 x 252
2/4 B	1250 x 550 x 215	118	20.4	1138 x 438	1202 x 502
3/4 B	1250 x 800 x 215	166	27.2	1138 x 688	1202 x 752
4/4 B	1250 x 1050 x 215	232	33.6	1138 x 938	1202 x 1002
5/4 B	1250 x 1300 x 215	303	41.4	1138 x 1188	1202 x 1252
1/5 B	1400 x 300 x 215	88	16.2	1288 x 188	1352 x 252
2/5 B	1400 x 550 x 215	126	23.6	1288 x 438	1352 x 502
3/5 B	1400 x 800 x 215	189	30.4	1288 x 688	1352 x 752
4/5 B	1400 x 1050 x 215	263	36.4	1288 x 938	1352 x 1002
5/5 B	1400 x 1300 x 215	339	45.2	1288 x 1188	1352 x 1252

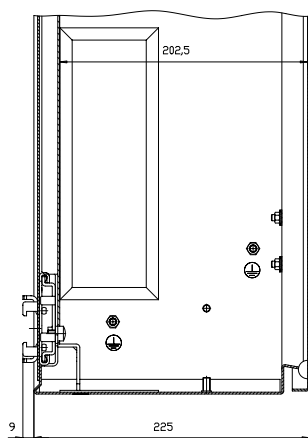
Technical Information G cabinet

Dimensions, weight, power loss



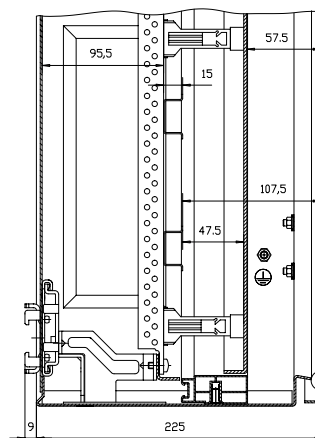
Type	Weight kg	Power loss in Watts	External dimensions HxWxD	Internal dimensions H 1 x W 1	External fastening dimensions H 2 x W 2	External fastening dimensions H 3 x W 3
2/0 G	19.0	74	650 x 550 x 225	602 x 502	543 x 581	697 x 446
3/0 G	24.0	107	650 x 800 x 225	602 x 752	543 x 831	697 x 696
4/0 G	30.0	125	650 x 1050 x 225	602 x 1002	543 x 1081	697 x 946
5/0 G	35.0	157	650 x 1300 x 225	602 x 1252	543 x 1331	697 x 1196
1/2 G	16.0	64	950 x 300 x 225	902 x 252	843 x 331	997 x 196
2/2 G	24.0	97	950 x 550 x 225	902 x 502	843 x 581	997 x 446
3/2 G	31.6	130	950 x 800 x 225	902 x 752	843 x 831	997 x 696
4/2 G	40.0	175	950 x 1050 x 225	902 x 1002	843 x 1081	997 x 946
5/2 G	47.0	230	950 x 1300 x 225	902 x 1252	843 x 1331	997 x 1196
2/4 G	30.0	118	1250 x 550 x 225	1202 x 502	1143 x 581	1297 x 446
3/4 G	39.0	166	1250 x 800 x 225	1202 x 752	1143 x 831	1297 x 696
4/4 G	50.0	232	1250 x 1050 x 225	1202 x 1002	1143 x 1081	1297 x 946
5/4 G	59.0	303	1250 x 1300 x 225	1202 x 1252	1143 x 1331	1297 x 1196
2/5 G	34.5	126	1400 x 550 x 225	1352 x 502	1293 x 581	1447 x 446
3/5 G	44.0	189	1400 x 800 x 225	1352 x 752	1293 x 831	1447 x 696
4/5 G	55.0	263	1400 x 1050 x 225	1352 x 1002	1293 x 1081	1447 x 946
5/5 G	65.0	339	1400 x 1300 x 225	1352 x 1252	1293 x 1331	1447 x 1196

cross section G cabinet with mounting plate



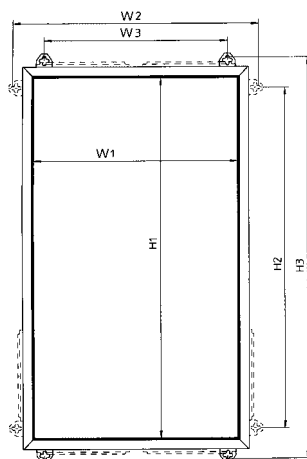
Mounting plates are available as single pcs. for all overall heights and widths. They consist of galvanised 2 mm thick sheet steel bevelled on the sides.

with distribution board panel



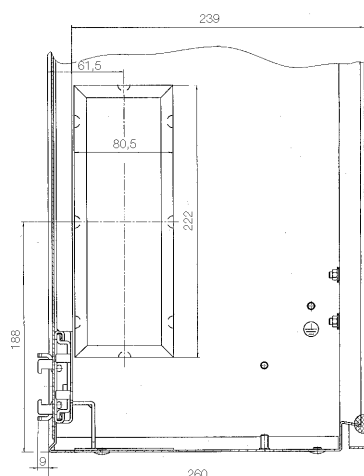
Technical Information C wall cabinet

Dimensions, weight, power loss

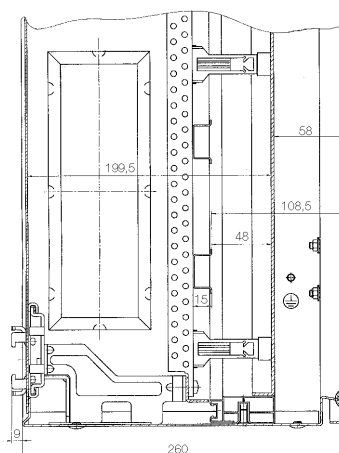


Type	Weight kg	Power loss in Watts	External dimensions HxWxD	Internal dimensions H 1 x W 1	External fastening dimensions H 2 x W 2	External fastening dimensions H 3 x W 3
2/0 C	21.0	84	650 x 550 x 260	602 x 502	543 x 581	697 x 446
3/0 C	26.0	123	650 x 800 x 260	602 x 752	543 x 831	697 x 696
4/0 C	32.0	143	650 x 1050 x 260	602 x 1002	543 x 1081	697 x 946
5/0 C	37.0	180	650 x 1300 x 260	602 x 1252	543 x 1331	697 x 1196
2/2 C	26.0	113	950 x 550 x 260	902 x 581	843 x 581	997 x 446
3/2 C	33.5	149	950 x 800 x 260	902 x 752	843 x 831	997 x 696
4/2 C	42.0	221	950 x 1050 x 260	902 x 1002	843 x 1081	997 x 946
5/2 C	49.5	266	950 x 1300 x 260	902 x 1252	843 x 1331	997 x 1196
2/4 C	32.0	136	1250 x 550 x 260	1202 x 502	1143 x 581	1297 x 446
3/4 C	41.0	190	1250 x 800 x 260	1202 x 752	1143 x 831	1297 x 696
4/4 C	52.0	268	1250 x 1050 x 260	1202 x 1002	1143 x 1081	1297 x 946
5/4 C	61.0	349	1250 x 1300 x 260	1202 x 1252	1143 x 1331	1297 x 1196
2/5 C	36.5	146	1400 x 550 x 260	1352 x 502	1293 x 581	1447 x 446
3/5 C	47.0	219	1400 x 800 x 260	1352 x 752	1293 x 831	1447 x 696
4/5 C	58.0	302	1400 x 1050 x 260	1352 x 1002	1293 x 1081	1447 x 946
5/5 C	68.0	390	1400 x 1300 x 260	1352 x 1252	1293 x 1331	1447 x 1196

with mounting plate

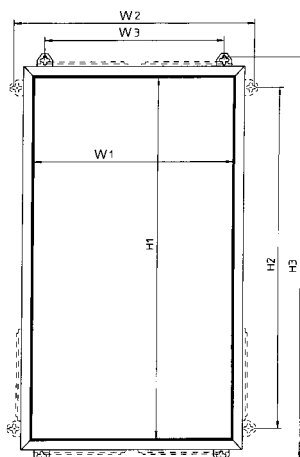


with standard panel installation set



Technical Information W wall cabinet

Dimensions, weight, power loss

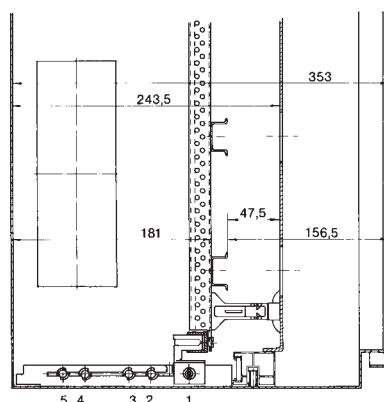
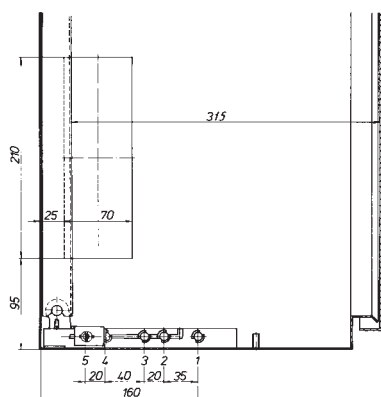


Type	Weight kg	Power loss in Watts	External dimensions H x W x D	Internal Dimensions H 1 x W 1	External fastening dimensions H 2 x W 2	External fastening dimensions H 3 x W 3
2/2 W	34.0	112	970 x 570 x 360	902 x 502	866 x 617	1017 x 466
3/2 W	44.0	150	970 x 820 x 360	902 x 752	866 x 867	1017 x 716
4/2 W	55.0	201	970 x 1070 x 360	902 x 1002	866 x 1117	1017 x 966
5/2 W	64.0	265	970 x 1320 x 360	902 x 1252	866 x 1367	1017 x 1216
2/4 W	42.5	136	1270 x 570 x 360	1202 x 502	1166 x 617	1317 x 466
3/4 W	55.0	191	1270 x 820 x 360	1202 x 752	1166 x 867	1317 x 716
4/4 W	69.0	267	1270 x 1070 x 360	1202 x 1002	1166 x 1117	1317 x 966
5/4 W	88.0	348	1270 x 1320 x 360	1202 x 1252	1166 x 1367	1317 x 1216

03

with mounting plate

with standard panel installation set

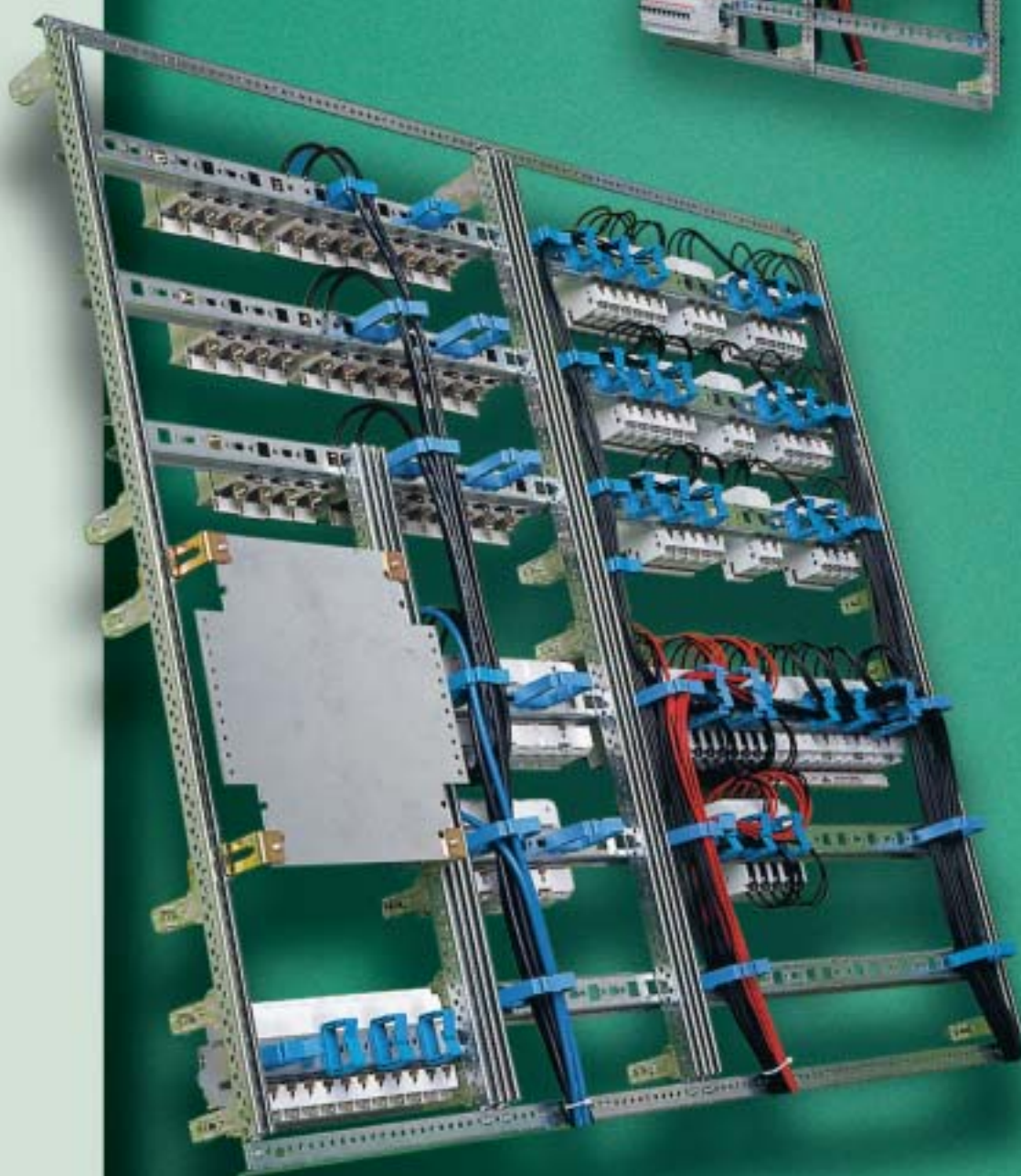


Consumer Units

Distribution Boards

Wall Cabinets

Distribution Board Panels



EDF Distribution Board Panels

Index

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Product Features

4-2	How to Find the Right Distribution Board Panel for the Cabinet
4-4	Combination Variations
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Technical Information

4-20	Grid dimensions
4-22	EDF Distribution Board Panels

Applicable Standards:

IEC 60439-1 (DIN EN 60439-1)

DIN 43870

Discription – EDF Distribution Board Panels

how to find the right distribution board panel for your cabinet

A cabinets

IP 43  Cabinet depth 215 mm



B cabinets

IP 43  Cabinet depth 215 mm



FS cabinets

IP 54  Cabinet depth 225 mm



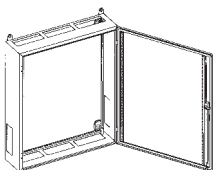
WS cabinets

IP 55  Cabinet depth 360 mm



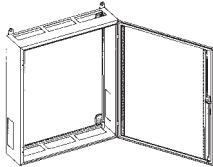
G cabinets

IP 54  Cabinet depth 225 mm



C cabinets

IP 54  Cabinet depth 260 mm



W cabinets

IP 55  Cabinet depth 360 mm



A, B, FS, WS cabinets are prepared for direct installation of distribution board panels and combination sets



Distribution board panels / combination sets

For G, C, and W cabinets the standard panel installation set is required for mounting the distribution board panels and combination sets



Standard panel installation set with touch guard

Distribution board panels / combination sets

Discription – EDF Distribution Board Panels

how to find the right distribution board panel for your cabinet

➔ The cabinets from page 3-1

➔ The distributin board panels from page 4-6

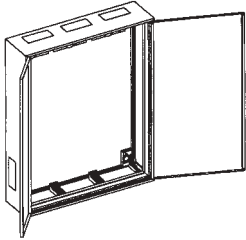
Overall height	Rows	Overall height	Rows	Devices
00	3	00	3	36
500 mm		Type 1 V 00A Ord.no. 37580	450 mm	
0	4	0	4	48
650 mm		Type 1 V 0A Ord.no. 37591	600 mm	
1	5	1	5	60
800 mm		Type 1 V 1A Ord.no. 37610	750 mm	
2	6	2	6	72
950 mm		Type 1 V 2A Ord.no. 37622	900 mm	
3	7	3	7	84
1100 mm		Type 1 V 3A Ord.no. 37639	1050 mm	
4	8	4	8	96
1250 mm		Type 1 V 4A Ord.no. 37651	1200 mm	
5	9	5	9	108
1400 mm		Type 1 V 5A Ord.no. 37665	1350 mm	

04

Discription – EDF Distribution Board Panels

Combination variations

① Single Distribution board panels



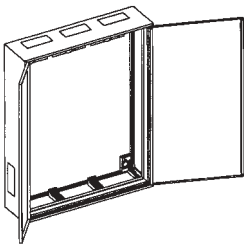
Distribution board panel



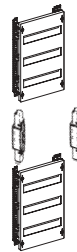
Overall height of distribution board panel and cabinet must be the same

→ Find on page 4-8

② More than one Distribution board panel



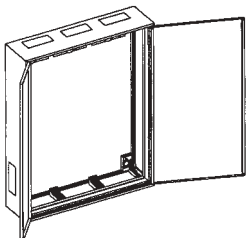
Distribution board panel
+
Panel connectors
+
Distribution board panel



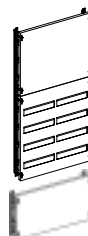
Distribution board panels are combined with distribution board panels to have the same overall height to fit the cabinet.

→ Find on page 4-6

③ Distribution board panels and combination sets



Distribution board panel
+
Combination set



Distribution board panels are combined with combination sets to have the same overall height to fit the cabinet.

→ Find on page 4-6 / 4-8

Discription – EDF Distribution Board Panels

Equipping of Distribution Panels



Panels for modular DIN rail components

Configuration:

DIN rail 35 x 15 mm for device installation and with special hole grid for the wiring system. DIN rail spacing 125 mm. Plastic cover. Slots for modular DIN-rail components DIN 43880 for 12 Devices (216 mm) per panel width.

→ For wire holders, please see page 4-16

→ For closure strips, see page 4-17



Panels for rail mounted terminals

Configuration:

DIN rail 35 x 15 mm for rail mounted terminal blocks with special hole grid for the wiring system. DIN rail spacing 125 mm. Plastic cover. Use ZK 90 P2 insulating pieces in order to fit DIN rails with double insulation. Use the deep mounting brackets ED 33 P2 in order to fit DIN rails in a recessed position.

→ For insulating pieces , see page 4-12

→ For deep-mounting brackets,see page 4-14



Panels with mounting plates for drill free mounting of devices

Perforated sheet steel mounting plate. The perforated mounting plate is mounted on deep mounting brackets allowing stepless depth adjustment. Maximum space between the perforated plate and cover is 143 mm (consider cabinet depth) plastic cover.



Panels with mounting plates

Configuration:

Mounting plate made of 2 mm surface sendzimir-galvanised sheet steel. The mounting plate is mounted on deep mounting brackets and its depth is steplessly adjustable. Maximum installation depth between mounting plate and cover is 143 mm (consider cabinet depth) plastic cover.



Panel Cover as touch protection (or for custom assembly)

Configuration:

Empty panel without installation material
Plastic cover (closed cover)



Panels for fuse switch-disconnectors Size 00 (160 A)

Configuration:

Cross member for disconnector mounting. Universal mounting with sliding nuts for adapting to different fastening holes (M6 thread). Plastic cover. Covers with cut outs for fuse switch-disconnectors tailored to cover dimensions (without disconnector).



Panels for fuse switch-disconnectors Size 1 (250 A)

Configuration:

Cross-member for disconnector mounting. Universal mounting with sliding nuts for adapting to different fastening holes (M8 thread). Plastic cover. Covers with cut outs for fuse switch-disconnectors tailored to cover dimensions (without disconnector).



Panels with busbars

Configuration:

5-pole busbar system
12 x 5 CU, 250A, busbar spacing 40 mm, plastic cover. (closed cover)

→ For busbar connection terminals, see page 4-15

Ordering Information – EDF Distribution Board Panels

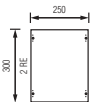
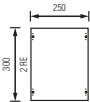
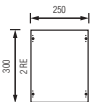
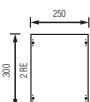
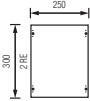
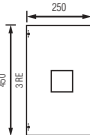
Combination Sets

➔ **Defintion of the grid spacing, panel width, see page 4-20**

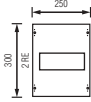
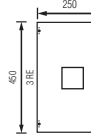
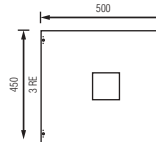
- The combination set simplifies stock keeping and offers many combination possibilities for the panel builder.
- Combination sets 1 and 2 panels wide can be fitted above, between or below the distribution board panels.

- Combinations of combination sets and distribution board panels must have the same overall height as the cabinets in which they are installed.
- When two panels are assembled one above the other, 1 panel wide panels must be mounted above 1 panel wide panels, and 2 panel wide panels above 2 panel wide panels.

SACE ISOMAX (MCCB's) Cover with cut-out. Empty modules.

Rows	Width 250
2	Type EDS 1 For SACE MCCB S1 3pole Ord.no. 74390 
2	Type EDS 14 For SACE MCCB S1 4pole Ord.no. 74388 
2	Type EDS 2 For SACE MCCB S2 3pole Ord.no. 74391 
2	Type EDS 24 For SACE MCCB S2 4pole Ord.no. 74389 
2	Type EDS 3 For SACE MCCB S3 3/4pole Ord.no. 74392 
3	Type EDS 4 For SACE MCCB S4 3/4pole Ord.no. 74393 

Sace T-max (MCCB's) Cover with cut-out. Empty modules

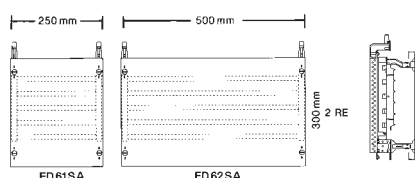
2	Type ED 250T3 For SACE MCCB T1-T3, 3-4pole Ord.no. 37826 
3	Type ED 320T4 For SACE MCCB T4, 3pole Ord.no. 37827 
	Type ED 630 T5 For SACE MCCB For SACE MCCB T4, 4pole T5, 3-4pole Ord.no. 37828 

Ordering Information – EDF Distribution Board Panels

Combination Sets

→ Definition of the grid spacing, panel width, see page 4-20

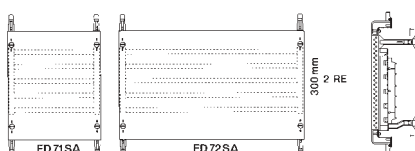
- The combination set simplifies stock keeping and offers many combination possibilities for the panel builder.
- Combination sets 1 and 2 panels wide can be fitted above, between or below the distribution board panels.
- Combinations of combination sets and distribution board panels must have the same overall height as the cabinets in which they are installed.
- When two panels are assembled one above the other, 1 panel wide panels must be mounted above 1 panel wide panels, and 2 panel wide panels above 2 panel wide panels.



ED 61 SA/ED 62 SA

The combinations sets ED 61 S and ED 62 S have a 5-pole busbar system, 250 A, and are plugged into the distribution board panel from above or below. By also fitting another CU bar 12 x 5 mm (per conductor) (ZX 101 or ZX 102) it is possible to upgrade the busbar systems to 360 A. Busbar spacing 40 mm. Busbar connection terminals can be ordered separately.

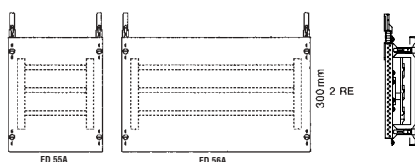
	Busbar Single-panel / Two-panel connector		
Height	300	300	
Rows	2	2	
Type	ED 61 SA	ED 62 SA	ZX 91
Ord.no.	37810	37811	39091



ED 71 SA/ED 72 SA

The design of the combinations sets ED 71 S and ED 72 S corresponds to the previous example, but they are installed between distribution board panels. By also fitting another CU bar 12 x 5 mm (per conductor) (ZX 101 or ZX 102) it is possible to upgrade the busbar systems to 360 A. Busbar spacing 40 mm. Busbar connection terminals can be ordered separately.

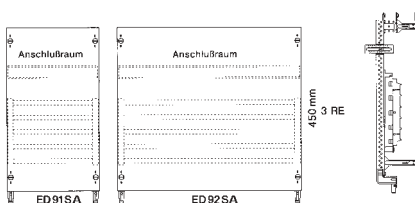
Height	300	300	
Rows	2	2	
Type	ED 71 SA	ED 72 SA	ZX 91
Ord.no.	37812	37813	39091



ED 55A/ED 56A

Prepared for DO and D fuse bases. With busbar system 3x 250 A (CU 12 x 5). Busbar spacing 60 mm. Attachment at the top or bottom on the distribution board panel. Usable installation width for fuse base ED 55 – 160 mm and ED 56 – 410 mm. Cover with cut-out. Busbar connection terminals can be ordered separately. Maximum input line connection 35 mm².

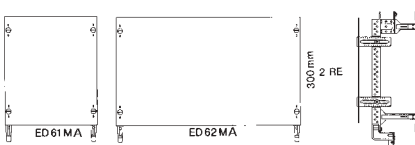
Height	300	300	
Rows	2	2	
Type	ED 55A	ED 56A	ZX 110
Ord.no.	37808	37809	39110



ED 91 SA/ED 92 SA

When busbars are installed and a lot of space is required for incoming or outgoing lines or additional terminals need to be mounted, then the ED91SA or ED92SA with steplessly adjustable DIN rails for terminals are ideal. By also fitting another CU bar 12 x 5 mm (per conductor) (ZX 101 or ZX 102) it is possible to upgrade the busbar systems to 360 A.

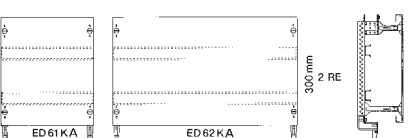
Height	450	450	
Rows	3	3	
Type	ED 91 SA	ED 92 SA	ZX 91
Ord.no.	37816	37817	39091



ED 61 MA/ED 62 MA

The combination sets ED 61 M and ED 62 M have a mounting plate, the depth of which is steplessly adjustable, for fitting extremely deep devices. These sets are plugged into the distribution board panel at the top or bottom. Maximum installation depth between mounting plate and cover, is 178 mm (pay attention to the cabinet depth).

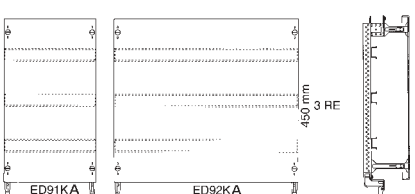
Height	300	300	
Rows	2	2	
Type	ED 61 MA	ED 62 MA	
Ord.no.	37820	37821	



ED 61 KA/ED 62 KA

The combination sets ED 61 K and ED 62 K with deep-mounted DIN rails are primarily used to provide a generous terminal compartment and can be plugged into distribution board panels at the top or bottom. Terminal compartment 300 mm. Suitable for terminal blocks up to 95 mm². Use ZK 90 P2 insulating pieces in order to fit DIN rails with double insulation. Use the extra-deep brackets ED 33 P2 in order to fit DIN rails to the rear.

Height	300	300	
Rows	2	2	
Type	ED 61 KA	ED 62 KA	
Ord.no.	37822	37823	



ED 91 KA/ED 92 KA

The combination sets ED 91 K and ED 92 K with deep-mounted DIN rails are primarily used to provide a generous terminal compartment and can be plugged into standard panels at the top or bottom. Terminal compartment 450 mm. Suitable for terminal blocks up to 95 mm². Use ZK 90 P2 insulating pieces in order to fit DIN rails with double insulation. Use the extra-deep brackets ED 33 P2 in order to fit DIN rails in a recessed position.

Height	450	450	
Rows	3	3	
Type	ED 91 KA	ED 92 KA	
Ord.no.	37824	37825	

→ For busbar connection terminals, see page 4-15

→ For insulating pieces for DIN rails, see page 4-12

→ For deep-mounting brackets, see page 4-14

Ordering Information – EDF Distribution Board Panels

DIN-rail spacing 125 mm / without devices

→ For N&PE rails, see page 4-16

■ For installation in all modular cabinets.

■ Without N and PE busbars

→ Definition of the grid units, panel width, see page 4-20

Applicable standards:

VDE 0603, DIN 43870, DIN 43880

■ Distribution board panels or panel combinations must have the same size as the cabinets in which they are installed.

Overall height	Grid units	For modular DIN-rail components DIN-rail spacing 125 mm						For modular DIN-rail components and rail mounted terminals DIN-rail spacing 125 mm			
		250 mm	250 mm	250 mm	500 mm	250 mm	500 mm	250 mm	500 mm	250 mm	500 mm
00	3	36		72							
Type		1 V 00A		2 V 00A							
Ord.no.		37580		37581							
	450 mm										
0	4	48	48	120	96			48	96		
Type		1 V 0A	1 V 01A	2 V 0A				1 V 0KA	2 V 0KA		
Ord.no.		37591	37680	37592				37593	37594		
	600 mm										
1	5	60	60	60	120			60	120		
Type		1 V 1A	1 V 11A	1 V 12A	2 V 1A		2 V 11 A	1 V 1KA	2 V 1KA		
Ord.no.		37610	37681	37682	37611		37687	37612	37613		
	750 mm										
2	6	72	72		144	72	144	72	144	72	144
Type		1 V 2A	1 V 21 A		2 V 2A	1 V 23A	2 V 23A	1 V 2KA	2 V 2KA	1 V 23 KA	2 V 23 KA
Ord.no.		37622	37683		37623	37634	37635	37624	37625	37637	37638
	900 mm										
3	7	84	84		168			84	168		
Type		1 V 3A	1 V 31 A		2 V 3A			1 V 3KA	2 V 3KA		
Ord.no.		37639	37684		37640			37641	37642		
	1050 mm										
4	8	96	96		192			96	192	96	192
Type		1 V 4A	1 V 41 A		2 V 4A			1 V 4KA	2 V 4KA	1 V 43KA	2 V 43KA
Ord.no.		37651	37685		37652			37653	37654	37677	37678
	1200 mm										
5	9	108	108		216			108	216		
Type		1 V 5A	1 V 51 A		2 V 5A			1 V 5KA	2 V 5KA		
Ord.no.		37665	37686		37666			37667	37668		
	1350 mm										

Ordering Information – EDF Distribution Board Panels

DIN-rail spacing 150 mm / without devices

■ For installation in all modular cabinets.

■ Without N and PE busbars

Applicable standards:

VDE 0603, DIN 43870, DIN 43880

■ Distribution board panels or panel combinations must have the same size as the cabinets in which they are installed.

*Perforated mounting plate for drill free mounting of devices, mounting nuts M4 are included

→ For N&PE rails, see page 4-16

→ Definition of the grid spacing, panel width, see page 4-20

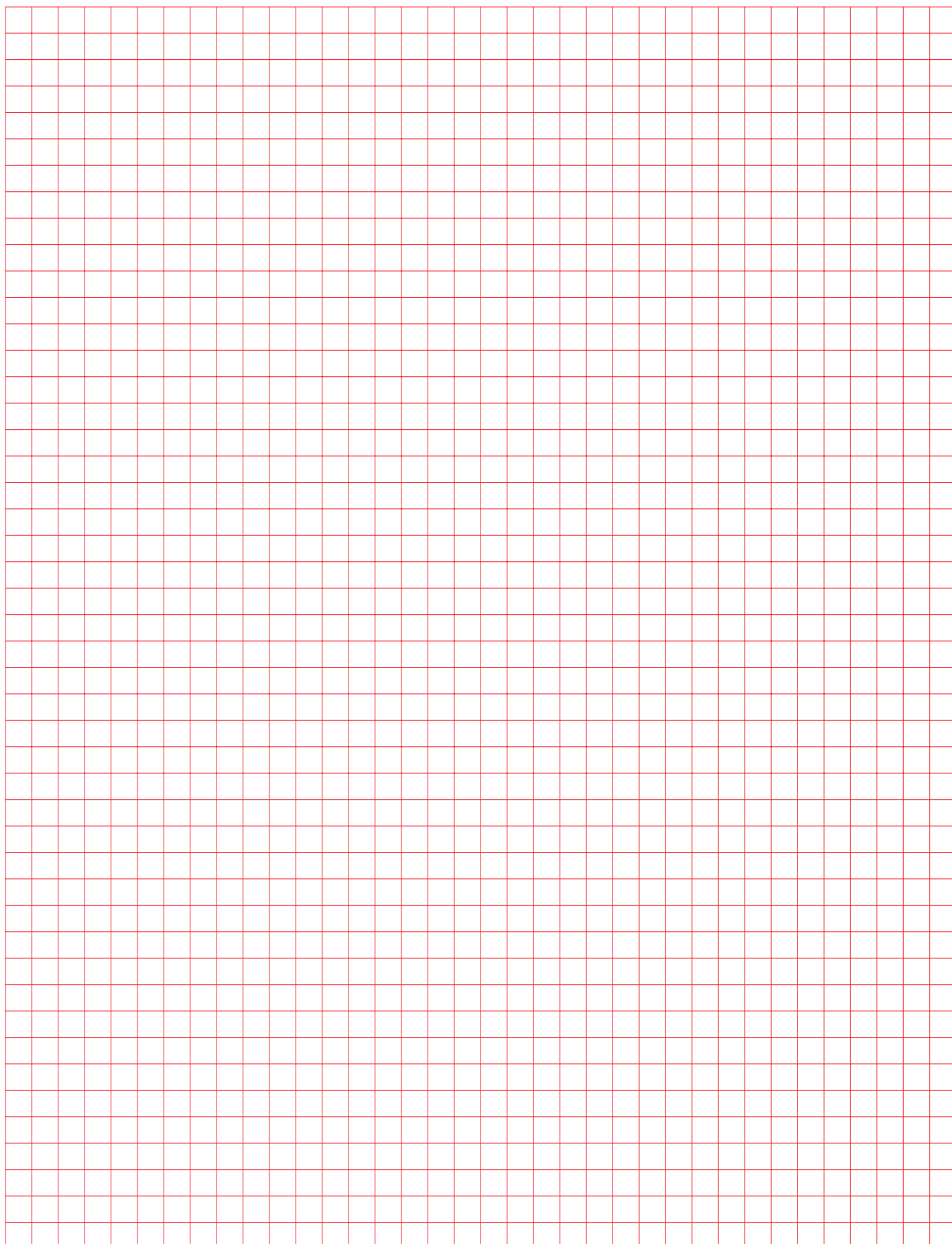
Overall height	Grid units	For modular DIN-rail components DIN-rail spacing 150 mm		For modular DIN-rail components and rail mounted terminals DIN-rail spacing 150 mm		*With perforated mounting plate	With mounting plate		With cover (empty panel)	
		250 mm	500 mm	250 mm	500 mm	250 mm	250 mm	500 mm	250 mm	500 mm
00	3	36	72			36	36	72	36	72
Type		1 V 00-150	2 V 00-150			1 MK 00A	1 M 00A	2 M 00A	1 B 00A	2 B 00A
Ord.no.		77800	77801			37179	37582	37583	37585	37586
	450 mm									
0	4	48	96	48	96	48	96	48	96	
Type		1 V 0-150	2 V 0-150			1 MK 0A	1 M 0A	2 M 0A	1 B 0A	2 B 0A
Ord.no.		77802	77803			37180	37595	37596	37601	37602
	600 mm									
1	5	60	120	60	120		60	120	60	120
Type		1 V 1-150	2 V 1-150	1 V 1K-150	2 V 1K-150	1 MK 1A	1 M 1A	2 M 1A	1 B 1A	2 B 1A
Ord.no.		77804	77805	77806	77807	37181	37614	37615	37620	37621
	750 mm									
2	6	72	144	72	144		72	144	72	144
Type		1 V 2-150	2 V 2-150	1 V 2K-150	2 V 2K-150	1 MK 2A	1 M 2A	2 M 2A	1 B 2A	2 B 2A
Ord.no.		77808	77809	77810	77811	37182	37626	37627	37632	37633
	900 mm									
3	7						84	168	84	168
	1050 mm									
4	8						96	192	96	192
	1200 mm									
5	9						108	216	108	216
	1350 mm									

Ordering Information – EDF Distribution Board Panels without devices

■ When two panels are assembled one above the other, panels that are 1 panel wide must be fitted above panels that are 1 panel wide and panels that are 2 panels wide must be fitted above panels that are 2 panels wide

Overall height	Grid units	For modular DIN-rail components, terminal blocks and NH fuse disconnectors Size 00 and 1				With busbars		distribution board panel against meter panel or distribution board panel against distribution board panel . 
		250 mm	250 mm	500 mm	250 mm	500 mm		
00	3	36			36	36	72	Space unit
Type		1 T 002A			1 T 003A	1 V 002A	2 V 002A	ZX 69
Ord.no.		37587			37584	37590	37609	39069
								
0	4	48	48	96	48			Space unit
Type		1 T 02A	1 T 0A	2 T 0A	1 T 03A	1 V 02A	2 V 02A	ZX 70
Ord.no.		37599	37597	37598	37600	37606	37607	39070
								
1	5	60	60	120	60			Space unit
Type		1 T 12A	1 T 1A	2 T 1A	1 T 13A			ZX 71
Ord.no.		37618	37616	37617	37619			39071
								
2	6	72	72	144	72			Space unit
Type		1 T 22A	1 T 2A	2 T 2A	1 T 23A			ZX 72
Ord.no.		37630	37628	37629	37631			39072
								
3	7	84	84	168	84			Space unit
Type		1 T 32A	1 T 3A	2 T 3A	1 T 33A			ZX 73
Ord.no.		37647	37645	37646	37648			39073
								
4	8	96	96	192	96			Space unit
Type		1 T 42A	1 T 4A	2 T 4A	1 T 43A			ZX 74
Ord.no.		37659	37657	37658	37660			39074
								
5	9	108	108	216	108			Space unit
Type		1 T 52A	1 T 5A	2 T 5A	1 T 53A			ZX 75
Ord.no.		37673	37671	37672	37674			39075
								

For your own Notes

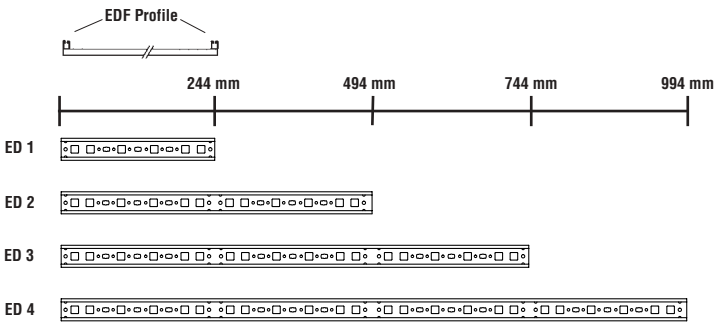


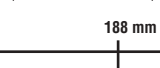
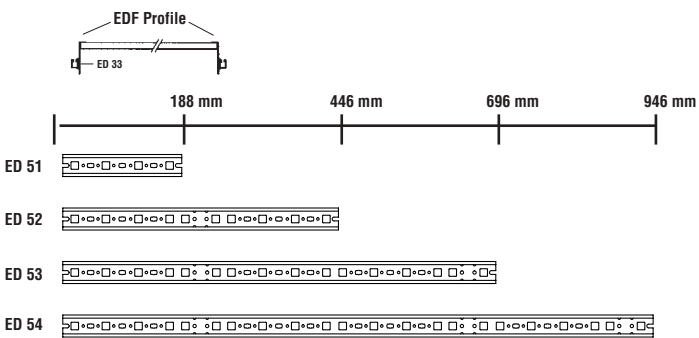
Ordering Information – EDF Distribution Board Panels

Accessories

DIN rail 35 x 15 mm

(Galvanised sheet steel)

		1 panel wide	2 panels wide	3 panels wide	4 panels wide	2000 mm
with special hole pattern for the EDF wiring system	Length (mm)	244	494	744	994	2000
	1 pcs. Type Ord.no.	ED 1 39381	ED 2 39382	ED 3 39383	ED 4 39384	ED 6 39386
 	30 pcs. Type Ord.no.	ED 1P30 62319	ED 2P30 62320	ED 3P30 62321		
						

for recessed mounting with deep-mounting bracket ED 33P2 on EDF profile	Length (mm)	188	446	696	946	
	1 pcs. Type Ord.no.	ED 51 39251	ED 52 39252	ED 53 39253	ED 54 39254	
 	30 pcs. Type Ord.no.	ED 51P30 62322	ED 52P30 62323	ED 53P30 62324		
						

	Type	Ord.no.
Fastening screws for DIN rails 20 pcs. 500 pcs.		ZB 28P20 62389
		ZB 28P500 64148
Insulation piece 2 pcs. for DIN rail 35 x 7.5 mm and 35 x 15 mm with fastening material		ZK 90P2 62426

➔ For deep-mounting brackets, see page 4-14

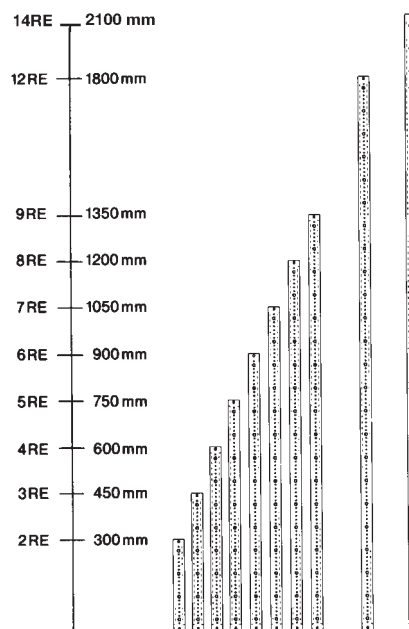
➔ For wiring systems, see page 4-16

Ordering Information – EDF Distribution Board Panels Accessories

EDF profile

for distribution panels up to 350 A and meter panels

		Overall height 000	Overall height 00	Overall height 0	Overall height 1	Overall height 2
	Length (mm)	300	450	600	750	900
	Grid spacing every 150 mm	2	3	4	5	6
	1 pcs. Type	ED 8	ED 9	ED 10	ED 11	ED 12
	Ord.no.	39208	39209	39210	39211	39212
	20 pcs. Type	ED 8P20	ED 9P20	ED 10P20	ED 11P20	ED 12P20
	Ord.no.	62311	62312	62313	62314	62315
		Overall height 3	Overall height 4	Overall height 5	Overall height 8	Overall height 10
	Length (mm)	1050	1200	1350	1800	2100
	Grid spacing every 150 mm	7	8	9	12	14
	1 pcs. Type	ED 13	ED 14	ED 15	ED 18	ED 20
	Ord.no.	39213	39214	39215	39216	39218
	20 pcs. Type	ED 13P20	ED 14P20	ED 15P20		
	Ord.no.	62316	62317	62318		



	Type	Ord.no.
Fastening screws for EDF profile 20 pcs.	ZB 36P20	62390



→ For cover holder, see page 4-16

→ For cover, see page 4-17

Cross member, 2 panels

1 pcs.
for panel division of
distribution board panels
and TNF modules

Cross member, 3 panels

1 pcs.
for panel division of
distribution board panels
and TNF modules



ED 112 **68572**

ED 113 **68573**

Ordering Information – EDF Distribution Board Panels

Accessories

Article	Type	Ord.no.
Mounting parts for EDF profile rails		
Panel connectors (pair) for any combination of distribution boards or EDF profile rails up to maximum 9 grid units	ED 30P2	62302
Lowering connectors (pair) for compensating recessed mounting levels in the case of busbars and mounting type panels up to maximum 9 grid units	ED 31P2	62303
Lowering brackets (pair) To compensate the level difference between the recessed mounting level and the normal fixing points for distribution board panels at the top or bottom.	ED 32P2	62304
Deep-mounting brackets (pair) steplessly adjustable (e.g. for mounting plates). Maximum installation depth, in the case of distribution board panels between the deep-mounting bracket and the cover is 135 mm 2 pieces 100 pieces	ED 33P2 ED 33P100	62305 62307
Mounting plates for mounting on deep-mounting brackets ED 33P2 Galvanised sheet steel 2 mm 1 panel wide: H x W 1 grid unit 116 x 196 mm 2 grid unit 266 x 196 mm 3 grid unit 416 x 196 mm 4 grid unit 566 x 196 mm 5 grid unit 716 x 196 mm 2 panels wide: H x W 1 grid unit 116 x 446 mm 2 grid unit 266 x 446 mm 3 grid unit 416 x 446 mm 4 grid unit 566 x 446 mm 5 grid unit 716 x 446 mm	ZW 365 ZW 338 ZW 341 ZW 344 ZW 362	68073 67938 67941 67944 68070
Cross member for disconnector attachment with fastening screw and captive nuts for 2 disconnectors Size 00, 1 panel wide 1 pcs. 10 pcs.	ZX 31 ZX 31P10	39031 62480
4 disconnectors Size 00, 2 panels wide 1 pcs. 10 pcs.	ZX 34 ZX 34P10	39034 62481
1 disconnector Size 1, 250 A, 1 panel wide	ZH 235	39841
Captive nuts (10 pcs.) for disconnector cross members (ZX 31, ZX 34) M6 (ZH 235) M8	ZX 297P10 ZX 298P10	62541 62542

Article	Type	Ord.no.
Panel connector 4 pcs. for connecting panels next to each other, with 16 self-tapping screws	ZX 66P4	62562
Partitions, plastic, not arc-resistant, for A, U, FS cabinets		
Vertical Distribution board panel against distribution board panel or meter panel against distribution board panel. overall height 00 overall height 0 overall height 1 overall height 2 overall height 3 overall height 4 overall height 5	ZX 69 ZX 70 ZX 71 ZX 72 ZX 73 ZX 74 ZX 75	39069 39070 39071 39072 39073 39074 39075
Horizontal inserted between the cover holders 1 panel wide 2 panels wide	ZX 86 ZX 87	39086 39087
Partitions, sheet steel, not arc-resistant, for A, U, FS cabinets		
Vertical Distribution board panel against distribution board panel for A, U, FS cabinets overall height00 overall height0 overall height1 overall height2 overall height3 overall height4 overall height5	ZX 469 ZX 470 ZX 471 ZX 472 ZX 473 ZX 474 ZX 475	39541 39542 39543 39544 39545 39546 39547
for G cabinets overall height00 overall height0 overall height1 overall height2 overall height3 overall height4 overall height5	ZX 479 ZX 480 ZX 481 ZX 482 ZX 483 ZX 484 ZX 485	39549 39550 39551 39552 39553 39554 39555
for C cabinets overall height00 overall height0 overall height1 overall height2 overall height3 overall height4 overall height5	ZX 489 ZX 490 ZX 491 ZX 492 ZX 493 ZX 494 ZX 495	39556 39557 39558 39559 39560 39561 39562
Horizontal inserted between the cover holders for A, U, FS cabinets 1 panel wide 2 panels wide	ZX 502 ZX 503	39567 39568
for G cabinets 1 panel wide 2 panels wide	ZX 497 ZX 498	39563 39564
for C cabinets 1 panel wide 2 panels wide	ZX 500 ZX 501	39565 39566

Ordering Information – EDF Distribution Board Panels Accessories

Busbar connection terminals

Article	Type	Ord.no.
1.5–16 mm ² for Cu 12 x 5 1 pcs. 50 pcs.	 ZK 79 ZK 79P50	64879 62429
1.5–35 mm ² for Cu 12 x 5 1 pcs. 50 pcs.	 ZK 81 ZK 81P50	64881 62431
1.5–50 mm ² for Cu 12 x 5 1 pcs. 50 pcs.	 ZK 150 ZK 150P50	64860 62432

Article	Type	Ord.no.
16–95 mm ² for Cu 12 x 5 16–70 mm ² for Cu 12 x 10 1 pcs. 50 pcs.	 ZK 83 ZK 83P50	64883 62433
1.5–16 mm ² for Cu 12 x 10 1 pcs. 50 pcs.	 ZK 87 ZK 87P50	64887 62430
16–120 mm ² for Cu 12 x 10 1 pcs. 50 pcs.	 ZK 154 ZK 154P50	64864 62435

Accessories for ABB Easyline switch fuses Type XLP

NH disconnectors

Article	Type	Ord.no.
Trim covers for disconnectors NH 00		
Single trim cover for 1 disconnector NH 00	 ZH 425	62952
Double trim cover for 2 disconnectors NH 00	 ZH 426	62953
Triple trim cover for 3 disconnectors NH 00	 ZH 427	62954
Single trim cover closed	 ZH 428	62955
Double trim cover closed	 ZH 429	62956
Triple trim cover closed	ZH 430	62957
Insulation plate for unoccupied busbar ends on NH 00 disconnectors	 ZX 148	44018

Artikel	Type	ART: NO
Trim for Disconnectors NH 1		
Single trim 1 pcs.	 ZH 438	62961
Double trim cover for 2 disconnectors NH 1 1 pcs.	 ZH 439	62962
Single trim cover closed 1 pcs.	 ZH 440	62963
Covers for Disconnectors NH2		
Single trim cover 1 pcs.	 ZH 448	62965
Double trim cover for 2 disconnectors NH 2 1 pcs.	 ZH 449	0702020

Ordering Information – EDF Distribution Board Panels

Accessories

Article	Type	Ord.no.
Wiring system		
Wire holder for routing of wires, installation depth 28.5 mm, to be inserted from the back into the DIN rail. 10 pcs. 50 pcs.		ED 44P10 62335 ED 44P50 62308
Wire holder for routing of wires or for holding a pla- stic tube Ø 38 mm, installation depth 55 mm to be inserted from the back into the DIN rail. 10 pcs. 50 pcs.		ED 45P10 62336 ED 45P50 62310
DIN rail adapter for ED 44 and ED 45 to be snapped onto the front of the DIN rail 10 pcs.		ED 59P10 62339
Console for the wire holders ED 44 and ED 45, to be inserted from the back into the DIN rail. 10 pcs.		ED 42P10 62333
Console for the wire holders ED 44 and ED 45, to be snapped onto the front of the DIN rail. 10 pcs.		ED 43P10 62334
Cover for visual screening of wiring routing in the wire holders ED 44 and ED 45, 1 m long.		ED 47 39309
Spacers 10 pcs. for raised or recessed mounting of DIN rails incl. screws Spacers		ZB 61P10 62393 ZB 62P10 62394 ZB 63P10 62395 ZB 64P10 62396 ZB 65P10 62397 ZB 67P10 62398 ZB 69P10 62399
Spacer profile as above, per running metre		ZB 70 38570
for distribution board panels 1 panel wide N and PE rails with holder 6 x 16 mm² screwable and 21 x 1,5-4 mm² plugable		ZK 523 38506

Article	Type	Ord.no.
Cover parts		
Cover holder 52.5 mm high for attaching (insert, turn) on rails of the EDF fast assembly system and for engaging a partition (see below). Use only this cover holder with DIN profile rails 35 x 15 mm. 12 pcs. 40 pcs.		ED 138P12 62602 ED 138P40 62603
Cover holder 88 mm high (as described above). Use when installing devices with greater depths or in conjunction with busbar systems. Can also be used for attaching a partition (see below). 4 pcs.		ED 139P4 62604
DIN rail adapter for cover holders ED 38 and ED 39 Snap from the front onto the DIN rail. 10 pcs.		ED 58P10 62338
90 degree press and turn closure 12 pcs.		ED 50P12 62337
Spacer for extending the cover holder by 25 mm. 4 pcs.		ED 135P4 62610
Screw insert for metric thread, M5, for attaching plates made of Macrolon, sheet metal or aluminium onto the standard EDF cover holders. 4 pcs.		ED 136P4 62611
90 degree press and turn closure for attaching plates made of Macrolon, sheet metal or aluminium onto the stan- dard EDF cover holders. 4 pcs.		ED 41P4 62332
Partitions not arc-resistant Distribution board panel against distribution board panel or meter panel against distribution board panel. overall height 00 overall height 0 overall height 1 overall height 2 overall height 3 overall height 4 overall height 5		ZX 69 39069 ZX 70 39070 ZX 71 39071 ZX 72 39072 ZX 73 39073 ZX 74 39074 ZX 75 39075

Ordering Information – EDF Distribution Board Panels

Accessories

Covers for 125 mm row spacing

Article Type Ord.no.

Covers, 1 panels wide

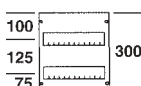
Plastic cover, material thickness 3 mm
with 90° press and turn closures

150 x 250 mm without slots
150 x 250 mm with slots



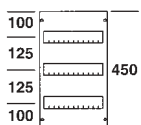
AG 11 62801
AS 11 62802

300 x 250 mm without slots
300 x 250 mm with slots



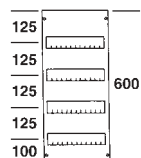
AG 12 62803
AS 12 62804

450 x 250 mm without slots
450 x 250 mm with slots



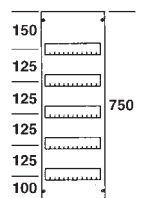
AG 13 62805
AS 13 62806

600 x 250 mm without slots
600 x 250 mm with slots



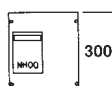
AG 14 62807
AS 14 62808

750 x 250 mm without slots
750 x 250 mm with slots



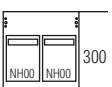
AG 15 62809
AS 15 62810

300 x 250 mm with cut-out for
1 NH disconnector, Size 00



AG 71 62873

300 x 250 mm with cut-out for
2 NH disconnectors, Size 00



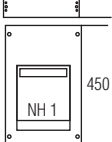
AG 65 62870

600 x 250 mm with cut-outs for
4 NH disconnectors, Size 00



AG 73 62875

450 x 250 mm with cut-out for
1 NH disconnector, Size 1
250 A



AG 72 62874

Closure strips

Colour RAL 7035
for 12 space units, break-off type
5 pcs.
50 pcs.



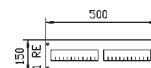
ZA 1P5 62384
ZA 1P50 62378

Article Type Ord.no.

Covers, 2 panels wide

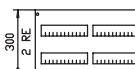
Plastic cover, material thickness 3mm
with 90° press and turn closures

150 x 500 mm without slots
150 x 500 mm with slots



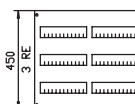
AG 21 62811
AS 21 62812

300 x 500 mm without slots
300 x 500 mm with slots



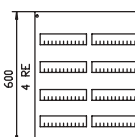
AG 22 62813
AS 22 62814

450 x 500 mm without slots
450 x 500 mm with slots



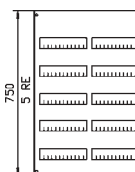
AG 23 62815
AS 23 62816

600 x 500 mm without slots
600 x 500 mm with slots



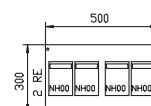
AG 24 62817
AS 24 62818

750 x 500 mm without slots
750 x 500 mm with slots



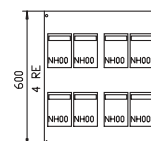
AG 25 62819
AS 25 62820

300 x 500 mm with cut-outs
for 4 NH disconnectors, Size 00



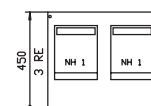
AG 75 62876

600 x 500 mm with cut-outs
for 8 NH disconnectors, Size 00



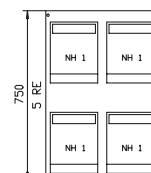
AG 79 62877

450 x 500 mm with cut-outs
for 2 NH disconnectors, Size 1



AG 82 62878

750 x 500 mm with cut-outs
for 4 NH disconnectors, Size 1



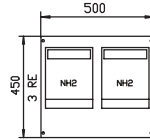
AG 83 62879

Ordering Information – EDF Distribution Board Panels Accessories

Article Type Ord.no.

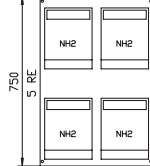
Covers, 2 panels wide

450 x 500 mm with cut-out
for 2 NH disconnectors, size 2



AG 92 62884

750 x 500 mm with cut-outs
for 4 NH disconnectors, size 2

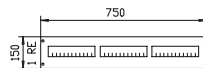


AG 66 62871

Covers, 3 panels wide

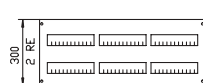
plastic cover
with 90° press and turn closures

150 x 750 mm without slots
150 x 750 mm with slots



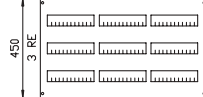
AG 31 62821
AS 31 62822

300 x 750 mm without slots
300 x 750 mm with slots



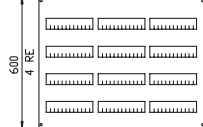
AG 32 62823
AS 32 62824

450 x 750 mm without slots
450 x 750 mm with slots



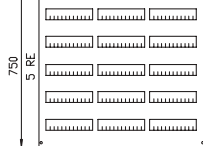
AG 33 62825
AS 33 62826

600 x 750 mm without slots
600 x 750 mm with slots



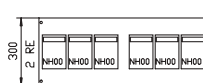
AG 34 62827
AS 34 62828

750 x 750 mm without slots
750 x 750 mm with slots



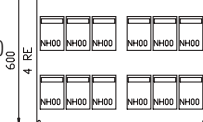
AG 35 62829
AS 35 62830

300 x 750 mm with cut-outs
for 6 NH disconnectors, Size 00



AG 84 62880

600 x 750 mm with cut-outs
for 12 NH disconnectors, Size 00

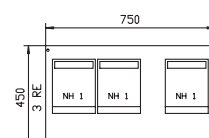


AG 85 62881

Article Type Ord.no.

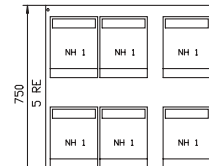
Covers, 3 panels wide

450 x 750 mm with cut-outs
for 3 NH disconnectors, Size 1



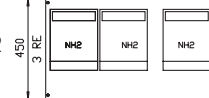
AG 90 62882

750 x 750 mm with cut-outs
for 6 NH disconnectors, Size 1



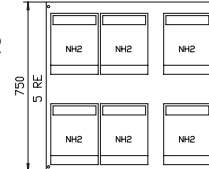
AG 91 62883

450 x 750 mm with cut-outs
for 3 NH disconnectors, Size 2



AG 93 62885

750 x 750 mm with cut-outs
for 6 NH disconnectors, Size 2



AG 67 62872

Advance frame for covers

For panels with cover holders
52,5 mm (ED 138), Frame is
made of plastic to raise the covers
25 oder 35 mm

Outside Dimensions for Covers
advance frame

1-panel wide
300 x 250 mm AG 12
400 x 250 mm AG 13
600 x 250 mm AG 14
750 x 250 mm AG 15

2-panel wide
300 x 500 mm AG 22
400 x 500 mm AG 23
600 x 500 mm AG 24
750 x 500 mm AG 25

3-panel wide
300 x 750 mm AG 32
400 x 750 mm AG 33
600 x 750 mm AG 34
750 x 750 mm AG 35



ED 212 62782
ED 213 62783
ED 214 62784
ED 215 62785

ED 222 62787
ED 223 62788
ED 224 62789
ED 225 62790

ED 232 62792
ED 233 62793
ED 234 62794
ED 235 62795

order seprately per frame

at 25 mm frame 1 x ED 135P4
at 35 mm frame 1 x ED 139P4
(see page 5-28)

Ordering Information – EDF Distribution Board Panels

Accessories

Covers for 150 mm row spacing (not as a replacement for standard panels)

Article Type Ord.no.

Covers, 1 panel wide

plastic cover
with 90° press and turn closures

150 x 250 mm without slot  AG 11 62801
150 x 250 mm with slot AS 11 62802

300 x 250 mm without slots  AG 212 62831
300 x 250 mm with slots AS 212 62832

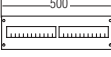
450 x 250 mm without slots  AG 213 62833
450 x 250 mm with slots AS 213 62834

600 x 250 mm without slots  AG 214 62835
600 x 250 mm with slots AS 214 62836

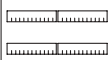
750 x 250 mm without slots  AG 215 62837
750 x 250 mm with slots AS 215 62838

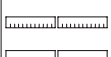
Covers, 2 panels wide

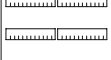
plastic cover
material thickness 3mm
with 90° press and turn closures

150 x 500 mm without slots  AG 21 62811
150 x 500 mm with slots AS 21 62812

300 x 500 mm without slots  AG 222 62839
300 x 500 mm with slots AS 222 62840

450 x 500 mm without slots  AG 223 62841
450 x 500 mm with slots AS 223 62842

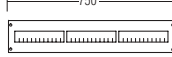
600 x 500 mm without slots  AG 224 62843
600 x 500 mm with slots AS 224 62844

750 x 500 mm without slots  AG 225 62845
750 x 500 mm with slots AS 225 62846

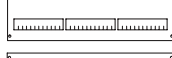
Article Type Ord.no.

Covers, 3 panels wide

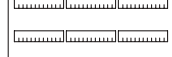
plastic cover
with 90° press and turn closures

150 x 750 mm without slots  AG 31 62821
150 x 750 mm with slots AS 31 62822

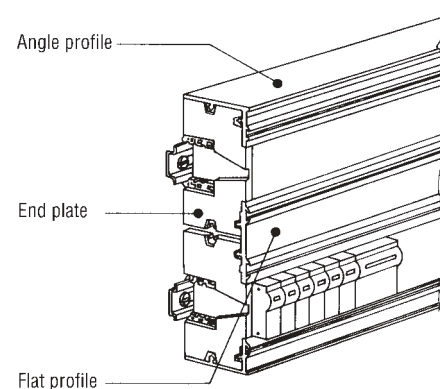
300 x 750 mm without slots  AG 232 62847
300 x 750 mm with slots AS 232 62848

450 x 750 mm without slots  AG 233 62849
450 x 750 mm with slots AS 233 62850

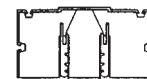
600 x 750 mm without slots  AG 234 62851
600 x 750 mm with slots AS 234 62852

750 x 750 mm without slots  AG 235 62853
750 x 750 mm with slots AS 235 62854

SIKAB safety terminal cover



End plate
for clipping onto 35 mm
DIN rail
1 pcs.
50 pcs.



ZK 140 38140
ZK 140P50 39363

Angle profile
for clipping into end plates
1 m long
1 pcs.
10 pcs.



ZK 141 38141
ZK 141P10 39364

Flat profile
for latching in
between 2 end plates
1 m long
1 pcs.
10 pcs.



ZK 142 38142
ZK 142P10 39365

Technical Information – Grid dimensions

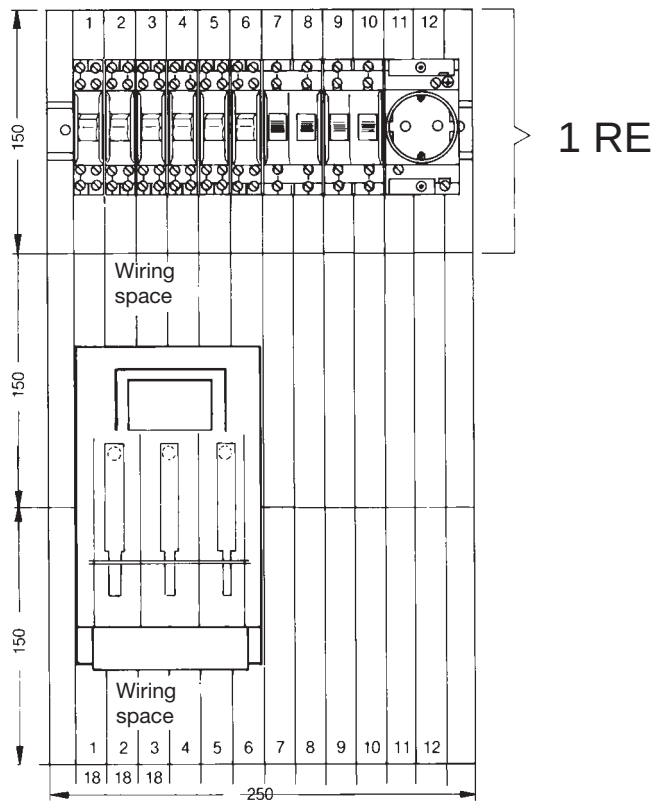
For planning and project conception, it is important to know that all modular elements from the Striebel distribution board program, such as meter and distribution board panels, combination sets, modules elements, cabinet systems and switchgear cabinets have a common surface area grid in the dimensions as defined by DIN 43870 and DIN 43880.

Two dimensional units simplify planning and project conception: The grid unit RE and the space unit PLE.

The space unit = PLE

The basic dimension of a space unit is the installation surface required by a 1-pole miniature circuit breaker or switch as defined by DIN 43880, including wiring space. This area is designated the space unit = PLE and has the dimensions 150 x 18 mm. A grid module conforming to DIN 43870, 150 mm high and 250 mm wide provides an installation surface area for 12 space units (PLE).

It is very simple to determine the space units of built-in devices that do not correspond to the dimensions DIN43880. These built-in devices are placed on a grid network with a division of 18 mm wide and 150 mm high. The connection space for the incoming and outgoing wires must also be defined. Together they provide the required PLE. In the example below, the NH isolator requires 12 PLE.



Single-row outgoing compartment
150 x 250 mm = 12 PLE

Meter slot in accordance with DIN 43870
450 x 250 mm = 36 PLE

Meter wiring space in accordance with DIN 43870
300 x 250 mm = 24 PLE

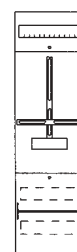
Total space units

RE

1

3

2

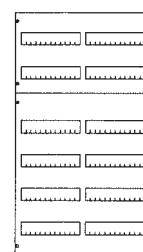


72

RE

2

4



144

Technical Information – Grid dimensions

The grid unit = RE

The unit of measurement RE indicates how many 150 mm height grids a cabinet, panel, combination set, module, module system panel or element has.

This unit of measurement is given for all height-related components and simplifies the combination of individual elements.

Height mm	Overall height	Grid unit RE	Panel width					
			mm	1 250	2 500	3 750	4 1000	5 1250
2100	10	14						
1950	9	13						
1800	8	12						
1650	7	11						
1500	6	10						
1350	5	9						
1200	4	8						
1050	3	7						
900	2	6					1V1 5 RE	
750	1	5						
600	0	4						
450	00	3						
300		2						
150		1					ED 61S 2 RE	
0		0						
			1V1	ED 61S				

1V1

ED 61S

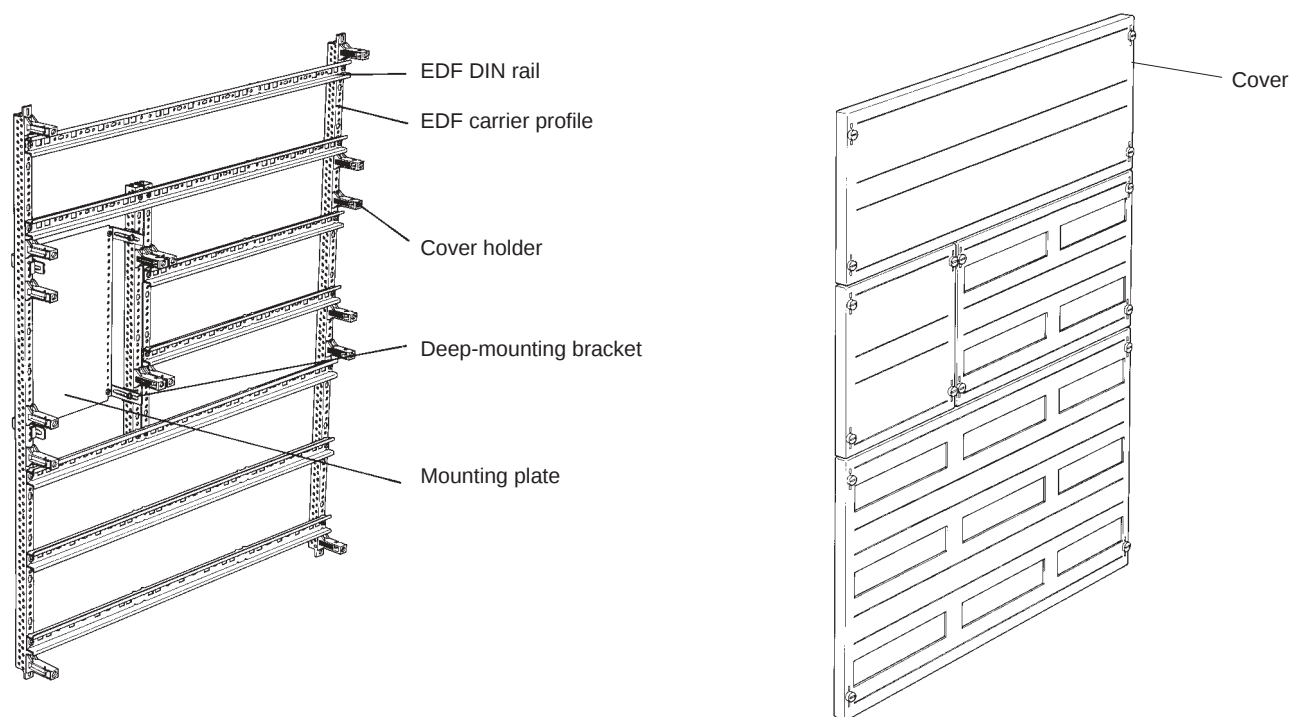
Technical Information – EDF Distribution Board Panels

The Standard Panel System in Accordance with DIN 43870

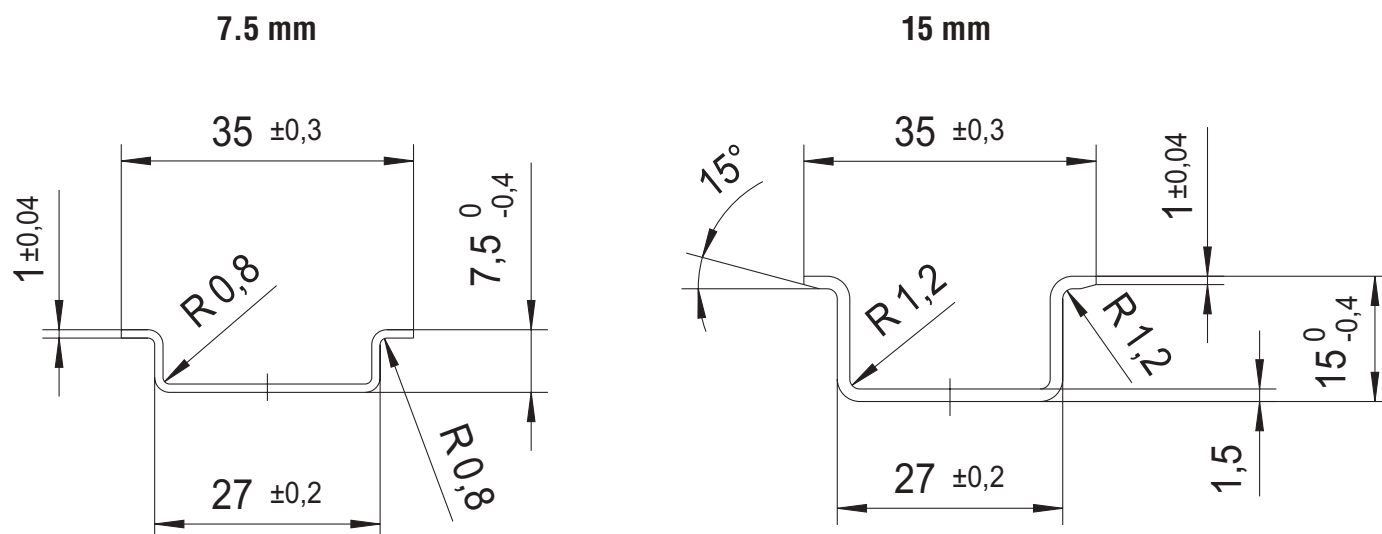
Distribution board panel

A selection of tried-and-tested standard panels for various applications is available for installation into the modular standard panel cabinets. (also see from Page 8-0). The switchgear and controller constructor can also mount individual panels to suit his own particular requirements.

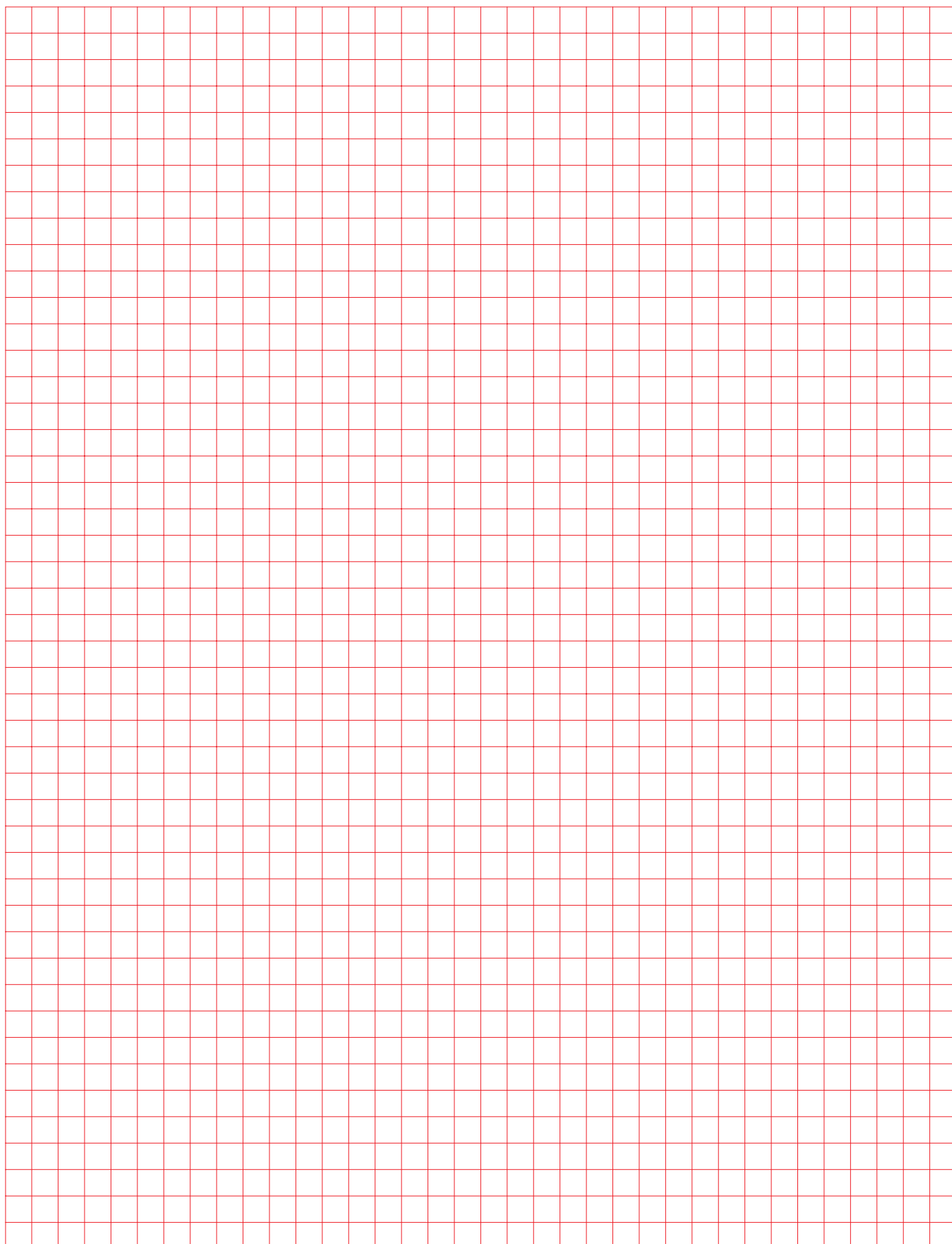
With the right accessories such as panel connectors, deep-mounting brackets, combination sets etc., it is possible to join together and connect distribution panels to form stable, large units.



Dimensions, DIN rail TH 35.



For your own Notes



GENERAL CONDITIONS for the

Supply of mechanical, electrical and electronic products

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1. General Conditions

PREAMBLE

1. These General Conditions shall apply when the parties agree in writing or otherwise thereto. When the General Conditions apply to a specific contract, modifications of or deviations from them must be agreed in writing.

The object(s) to be supplied under these General Conditions is (are) hereinafter referred to as the Product. Wherever these General Conditions use the term in writing, this shall mean by document signed by the parties, or by letter, fax, electronic mail and by such other means as are agreed by the parties.

PRODUCT INFORMATION

2. All information and data contained in general product documentation and price lists, whether in electronic or any other form, are binding only to the extent that they are by reference expressly included in the contract.

II. DRAWINGS AND DESCRIPTIONS

3. All drawings and technical documents relating to the Product or its manufacture submitted by one party to the other, prior or subsequent to the formation of the contract, shall remain the property of the submitting party. Drawings, technical documents or other technical information received by one party shall

not, without the consent of the other party, be used for any other purpose than that for which they were provided. They may not, without the consent of the submitting party,

otherwise be used or copied, reproduced, transmitted or communicated to a third party.

4. The Supplier shall, not later than at the date of delivery, provide free of charge information and drawings which are necessary to permit the Purchaser to erect, commission, operate and maintain the Product. Such information and drawings shall be supplied in the number of copies agreed upon or at least one copy of each. The Supplier shall not be obliged to provide manufacturing drawings for the Product or for spare parts.

III. ACCEPTANCE TESTS

5. Acceptance tests provided for in the contract shall, unless otherwise agreed, be carried out at the place of manufacture during normal working hours.

If the contract does not specify the technical requirements, the tests shall be carried out in accordance with general practice in the appropriate branch of industry concerned in the country of manufacture.

6. The Supplier shall notify the Purchaser in writing of the acceptance tests in sufficient time to permit the Purchaser to be represented at the tests. If the Purchaser is not represented, the test report shall be sent to the Purchaser and shall be accepted as accurate

7. If the acceptance tests show the Product not to be in accordance with the contract, the Supplier shall without delay remedy any deficiencies in order to ensure that the Product complies with the contract. New tests shall then be carried out at the Purchaser's request, unless the deficiency was insignificant.

8. The Supplier shall bear all costs for acceptance tests carried out at the place of manufacture. The Purchaser shall however bear all travelling and living expenses for his representatives in connection with such tests.

DELIVERY. PASSING OF RISK

9. Any agreed trade term shall be construed in accordance with the INCOTERMS in force at the formation of the contract.

If no trade term is specifically agreed, the delivery shall be Ex works (EXW).

If, in the case of delivery Ex works, the Supplier, at the request of the Purchaser, under-

takes to send the Product to its destination, the risk will pass not later than when the Product is handed over to the first carrier.

Partial shipments shall be permitted unless otherwise agreed.

TIME FOR DELIVERY. DELAY

10. If the parties, instead of specifying the date for delivery, have specified a period of time on the expiry of which delivery shall take place, such period shall start to run as soon as the contract is entered into, all official formalities have been completed, payments due at the formation of the contract have been made, any agreed securities have been given and any other preconditions have been fulfilled.

11. If the Supplier anticipates that he will not be able to deliver the Product at the time for delivery, he shall forthwith notify the Purchaser thereof in writing, stating the reason, and, if possible, the time when delivery can be expected. If the Supplier fails to give such notice, the Purchaser shall be entitled to compensation for any additional costs which he incurs and which he could have avoided had he received such notice.

GENERAL CONDITIONS for the Supply of mechanical, electrical and electronic products

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12. If delay in delivery is caused by any of the circumstances mentioned in Clause 39 or by an act or omission on the part of the Purchaser, including suspension under Clauses 20 or 42, the time for delivery shall be extended by a period which is reasonable having regard to all the circumstances in the case. This provision applies regardless of whether the reason for the delay occurs before or after the agreed time for delivery.

13. If the Product is not delivered at the time for delivery (as defined in Clauses 10 and 12), the Purchaser is entitled to liquidated damages from the date on which delivery should have taken place.

The liquidated damages shall be payable at a rate of 0.5 per cent of the purchase price for each completed week of delay. The liquidated damages shall not exceed 7.5 per cent of the purchase price.

If only part of the Product is delayed, the liquidated damages shall be calculated on that part of the purchase price which is attributable to such part of the Product as cannot in consequence of the delay be used as intended by the parties.

The liquidated damages become due at the Purchaser's demand in writing but not before delivery has been completed or the contract is terminated under Clause

14. The Purchaser shall forfeit his right to liquidated damages if he has not lodged a claim in writing for such damages within six months after the time when delivery should have taken place.

15. Liquidated damages under Clause 13 and termination of the contract with limited compensation under Clause 14 are the only remedies available to the Purchaser in case of delay on the part of the Supplier. All other claims against the Supplier based on such delay

shall be excluded, except where the Supplier has been guilty of a negligent breach of a condition which goes to the root of the contract ("wesentliche Vertragspflichten"), intent or gross negligence.

In these General Conditions gross negligence shall mean an act or omission implying either a failure to pay due regard to serious consequences, which a conscientious supplier would normally foresee as likely to ensue, or a deliberate disregard of the consequences of such act or omission.

16. If the Purchaser anticipates that he will be unable to accept delivery of the Product at the delivery time, he shall forthwith notify the Supplier in writing thereof, stating the reason and, if possible, the time when he will be able to accept delivery.

If the Purchaser fails to accept delivery at the delivery time, he shall nevertheless pay any part of the purchase price which becomes due on delivery, as if delivery had taken place.

The Supplier shall arrange for storage of the Product at the risk and expense of the Purchaser. The Supplier shall also, if the Purchaser so requires, insure the Product at the Purchaser's expense.

17. Unless the Purchaser's failure to accept delivery is due to any such circumstance as mentioned in Clause 39, the Supplier may by notice in writing require the Purchaser to accept delivery within a final reasonable period.

If, for any reason for which the Supplier is not responsible, the Purchaser fails to accept delivery within such period, the Supplier may by notice in writing terminate the contract in whole or in part. The Supplier shall then be entitled to compensation for the loss he has suffered by reason of the Purchaser's default. The compensation shall not exceed that part

PAYMENT

18. Unless otherwise agreed, the purchase price shall be paid with one third at the formation of the contract and one third when the Supplier notifies the Purchaser that the Product, or the essential part of it, is ready for delivery. Final payment shall be made when the Product is delivered.

Payments shall be made within 30 days of the date of the invoice.

19. Whatever the means of payment used, payment shall not be deemed to have been effected before the Supplier's account has been fully and irrevocably credited.

20. If the Purchaser fails to pay by the stipulated date, the Supplier shall be entitled to interest from the day on which payment was due. The rate of interest shall be as agreed between the parties. If the parties fail to agree on the rate of interest, it shall be 8 percentage points above the rate of the main refinancing facility of the European Central Bank in force on the due date of payment.

In case of late payment the Supplier may, after having notified the Purchaser in writing, suspend his performance of the contract until he receives payment.

If the Purchaser has not paid the amount due within three months the Supplier shall be entitled to terminate the contract by notice in writing to the Purchaser and to claim compensation for the loss he has incurred. The compensation shall not exceed the agreed purchase price.

IX. RETENTION OF TITLE

21. The Product shall remain the property of the Supplier until paid for in full to the extent that such retention of title is valid under the applicable law.

The Purchaser shall at the request of the Supplier assist him in taking any measures necessary to protect the Supplier's title to the Product in the country concerned.

The retention of title shall not affect the passing of risk under Clause

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X. LIABILITY FOR DEFECTS

22. Pursuant to the provisions of Clauses 23-37 inclusive, the Supplier shall remedy any defect or nonconformity (hereinafter termed defect(s)) resulting from faulty design, materials or workmanship.

23. The Supplier's liability is limited to defects which appear within a period of one year from delivery. If the daily use of the Product exceeds that which is agreed, this period shall be reduced proportionately.

24. When a defect in a part of the Product has been remedied, the Supplier shall be liable for defects in the repaired or replaced part under the same terms and conditions as those applicable to the original Product for a period of one year. For the remaining parts of the Product the period mentioned in Clause 23 shall be extended only by a period equal to the period during which the Product has been out of operation as a result of the defect.

25. The Purchaser shall without undue delay notify the Supplier in writing of any defect which appears. Such notice shall under no circumstance be given later than two weeks after the expiry of the period given in Clause 23.

The notice shall contain a description of the defect.

If the Purchaser fails to notify the Supplier in writing of a defect within the time limits set forth in the first paragraph of this Clause, he loses his right to have the defect remedied. Where the defect is such that it may cause damage, the Purchaser shall immediately inform the Supplier in writing. The Purchaser shall bear the risk of damage resulting from his failure so to notify.

26. On receipt of the notice under Clause 25 the Supplier shall remedy the defect without undue delay and at his own cost as stipulated in Clauses 22-37 inclusive.

Repair shall be carried out at the place where the Product is located unless the Supplier deems it appropriate that the defective part or the Product is returned to him for repair or replacement.

The Supplier is obliged to carry out dismantling and re-installation of the part if this requires special knowledge. If such special knowledge is not required, the Supplier has fulfilled his obligations in respect of the defect when he delivers to the Purchaser a duly repaired or replaced part.

27. If the Purchaser has given such notice as mentioned in Clause 25 and no defect is found for which the Supplier is liable, the Supplier shall be entitled to compensation for the costs he has incurred as a result of the notice.

28. The Purchaser shall at his own expense arrange for any dismantling and reassembly of equipment other than the Product, to the extent that this is necessary to remedy the defect.

29. Unless otherwise agreed, necessary transport of the Product and/or parts thereof to and from the Supplier in connection with the remedying of defects for which the Supplier is liable shall be at the risk and expense of the Supplier. The Purchaser shall follow the Supplier's instructions regarding such transport.

30. Unless otherwise agreed, the Purchaser shall bear any additional costs which the Supplier incurs for repair, dismantling, installation and transport as a result of the Product being located in a place other than the destination stated in the contract or - if no destination is stated - the place of delivery.

31. Defective parts which have been replaced shall be made available to the Supplier and shall be his property.

32. If, within a reasonable time, the Supplier does not fulfil his obligations under Clause 26, the Purchaser may by notice in writing fix a final time for completion of the Supplier's obligations.

If the Supplier fails to fulfil his obligations within such final time, the Purchaser may himself undertake or employ a third party to undertake necessary remedial works at the risk and expense of the Supplier.

Where successful remedial works have been undertaken by the Purchaser or a third party, reimbursement by the Supplier of reasonable costs incurred by the Purchaser shall be in full settlement of the Supplier's liabilities for the said defect.

33. Where the defect has not been successfully remedied, as stipulated under Clause 32, a) the Purchaser is entitled to a reduction of the purchase price in proportion to the reduced value of the Product, provided that under no circumstance shall such reduction exceed 15 per cent of the purchase price, or

b) where the defect is so substantial as to significantly deprive the Purchaser of the benefit of the contract, the Purchaser may terminate the contract by notice in writing to the Supplier. The Purchaser is then entitled to compensation for the loss he has suffered up to a maximum of 15 per cent of the purchase price.

34. The Supplier is not liable for defects arising out of materials provided, or a design stipulated or specified by the Purchaser.

35. The Supplier is liable only for defects which appear under the conditions of operation provided for in the contract and under proper use of the Product.

The Supplier's liability does not cover defects which are caused by faulty maintenance, incorrect erection or faulty repair by the Purchaser, or by alterations carried out without the Supplier's consent in writing.

Finally the Supplier's liability does not cover normal wear and tear or deterioration.

36. Notwithstanding the provisions of Clauses 22-35 the Supplier shall not be liable for defects in any part of the Product for more than two years from the beginning of the period given in Clause 23.

37. Save as stipulated in Clauses 22-36, the Supplier shall not be liable for defects. This applies to any loss the defect may cause including loss of production, loss of profit and other indirect loss. This limitation of the Supplier's liability shall not apply if he has been guilty of intent or gross negligence as defined in Clause 15 or if the Supplier negligently causes damage to life, body or health.

Furthermore, the limitation of liability shall not apply in cases of negligent breach of a condition which goes to the root of the contract ("wesentliche Vertragspflichten"). In the case of slight negligence the Supplier shall be liable only for reasonably foreseeable damage which is intrinsic to the contract.

Nor shall the said limitation of liability apply in the cases of strict liability under the Product Liability Act ("Produkthaftungsgesetz"), for defects of the Product causing death or personal injury, or damage to items of property used privately. Furthermore the said limitation of liability shall not apply in the case of defects the Supplier has fraudulently concealed or whose absence he has guaranteed.

XI. FORCE MAJEURE

38. Either party shall be entitled to suspend performance of his obligations under the contract to the extent that such performance is impeded or made unreasonably onerous by any of the following circumstances: industrial disputes and any other circumstance beyond the control of the parties such as fire, war, extensive military mobilization, insurrection, requisition, seizure, embargo, restrictions in the use of power and defects or delays in deliveries by sub-contractors caused by any such circumstance referred to in this Clause.

A circumstance referred to in this Clause whether occurring prior to or after the formation of the contract shall give a right to suspension only if its effect on the performance of the

contract could not be foreseen at the time of the formation of the contract.

39. The party claiming to be affected by Force Majeure shall notify the other party in writing without delay on the intervention and on the cessation of such circumstance.

If Force Majeure prevents the Purchaser from fulfilling his obligations, he shall compensate the Supplier for expenses incurred in securing and protecting the Product.

40. Regardless of what might otherwise follow from these General Conditions, either party shall be entitled to terminate the contract by notice in writing to the other party if performance of the contract is suspended under Clause 39 for more than six months.

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XII. ANTICIPATED NON-PERFORMANCE

41. Notwithstanding other provisions in these General Conditions regarding suspension, each party shall be entitled to suspend the performance of his obligations under the contract, where it is clear from the circumstances that the other party will not be able to per-

form his obligations. A party suspending his performance of the contract shall forthwith notify the other party thereof in writing.

XIII. CONSEQUENTIAL LOSSES

42. Save as otherwise stated in these General Conditions there shall be no liability for either party towards the other party for loss of production, loss of profit, loss of use, loss of contracts or for any other consequential or indirect loss whatsoever. The said exclusion of liability shall not apply in the case of intent or gross negligence under Clause 15 or if the Supplier negligently causes damage to life, body or health. Furthermore, the exclusion of liability shall not apply in cases of negligent breach of a condition which goes to the root of the contract ("wesentliche Vertragspflichten"). In the case of slight negligence the Supplier shall be liable only for reasonably foreseeable damage which is intrinsic to the contract.

Nor shall the exclusion of liability apply in the cases of strict liability under the Product Liability Act ("Produkthaftungsgesetz"), for defects of the product causing death or personal injury, or damage to items of property used privately. Neither does the said exclusion apply in the case of damage attributable to fraudulent concealment or despite specific guarantees.

XIV. DISPUTES AND APPLICABLE LAW

43. All disputes arising out of or in connection with the contract shall be finally settled under the Rules of Arbitration of the International Chamber of Commerce by one or more arbitrators appointed in accordance with the said rules.

44. The contract shall be governed by the substantive law of the Supplier's country.

Search Register

Type	EAN® in 4011617000006		Product code	S.	Type	EAN® in 4011617000006		Product code	S.	Type	EAN® in 4011617000006		Product code	S.	Type	EAN® in 4011617000006		Product code	S.	
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A362	31637	4	0703040	1-20	AS214	62836	1	0706030	2-26	AV42	30141	7	0203030	2-7	ED138P12	62602	2	0701010	4-16
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AG82	62878	1	0706030	4-17	AT53K	30128	8	0202040	2-8	CB42	34584	8	0704010	3-21	ED56A	37809	9	0806010	4-7
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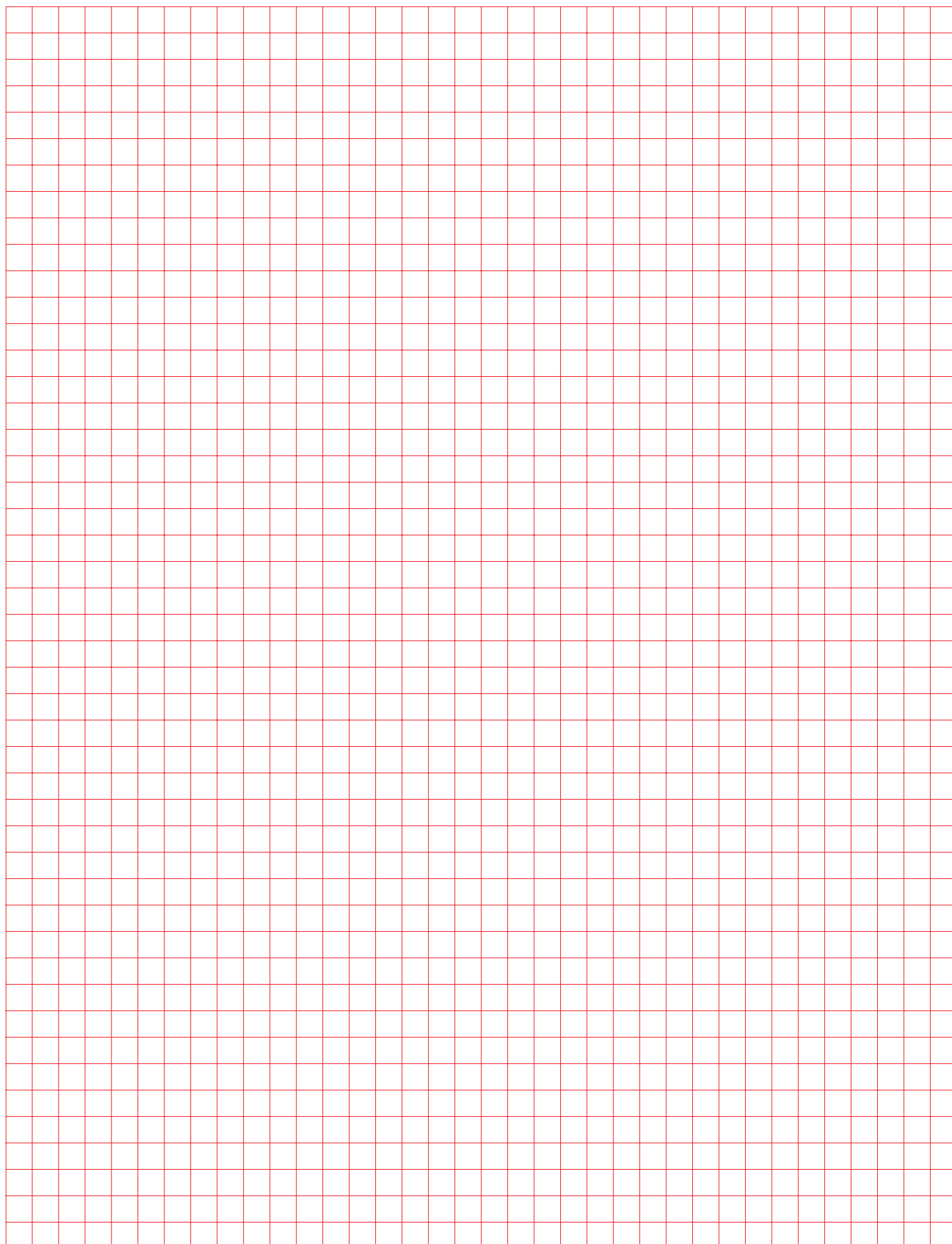
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FPT520	30826	3	0101020	1-12	TTS35	62053	2	0704010	3-23	U63E	71787	4	0201050	2-9	WB24	34862	7	0704010	3-21
FPT530	30827	0	0101030	1-12	TTS40	62029	7	0704010	3-23	U63K	30113	4	0201050	2-9	WB32	34853	5	0704010	3-21
GB12	34445	2	0704010	3-21	TTS41	62034	1	0704010	2-24	U63R5	71717	1	0201040	2-12	WB34	34863	4	0704010	3-21
GB20	34436	0	0704010	3-21	TTS41	62034	1	0704010	3-23	U63TR5	71731	7	0201040	2-12	WB42	34854	2	0704010	3-21
GB22	34446	9	0704010	3-21	TTS42	62039	6	0704010	3-23	U64K	30117	2	0201050	2-9	WB44	34864	1	0704010	3-21
GB24	34451	3	0704010	3-21	TTS43	62044	0	0704010	3-23	U72	30114	1	0201060	2-9	WB52	34855	9	0704010	3-21
GB25	34456	8	0704010	3-21	TTS44	62049	5	0704010	3-23	U72K	30115	8	0201060	2-9	WB54	34865	8	0704010	3-21
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GB32	34447	6	0704010	3-21	TTS50	62030	3	0704010	3-23	U72TR6	71733	1	0201050	2-12	WM24	34762	0	0704020	3-21
GB34	34452	0	0704010	3-21	TTS51	62035	8	0704010	3-23	U73K	30116	5	0201060	2-9	WM32	34753	8	0704020	3-21
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GB42	34448	3	0704010	3-21	TTS54	62050	1	0704010	3-23	UK510BE	77619	2	0101010	1-12	WM44	34764	4	0704020	3-21
GB44	34453	7	0704010	3-21	TTS55	62055	6	0704010	3-23	UK510BE	77619	2	0101010	1-14	WM52	34755	2	0704020	3-21
GB45	34458	2	0704010	3-21	TU41	67709	3	0204030	2-15	UK510E	77600	0	0101010	1-12	WM54	34765	1	0704020	3-21
GB50	34439	1	0704010	3-21	TU42	67710	9	0204030	2-15	UK510SBE	77705	2	0101010	1-12	XZ77	60118	0	0705010	3-22
GB52	34449	0	0704010	3-21	TU43	67711	6	0204030	2-15	UK510SE	77701	4	0101010	1-12	ZA1P5	62384	7	0701010	2-20
GB54	34454	4	0704010	3-21	TU51	67712	3	0204040	2-15	UK510SIE	77725	0	0101010	1-12	ZA1P5	62384	7	0701010	4-17
GB55	34459	9	0704010	3-21	TU52	67713	0	0204040	2-15	UK510STE	77721	2	0101010	1-12	ZA1P50	62378	6	0701010	2-20
GM12	34482	7	0704020	3-21	TU53	67714	7	0204040	2-15	UK520BE	77620	8	0101020	1-12	ZA1P50	62378	6	0701010	4-17
GM20	34473	5	0704020	3-21	TU61	67715	4	0204050	2-15	UK520E	77601	7	0101020	1-12	ZA300	38483	0	0703010	1-21
GM22	34483	4	0704020	3-21	TU62	67716	1	0204050	2-15	UK520SBE	77706	9	0101020	1-12	ZA375P10	62383	0	0703010	1-21
GM24	34488	9	0704020	3-21	TU63	67717	8	0204050	2-15	UK520SE	77702	1	0101020	1-12	ZA3P5	62385	4	0701010	1-15
GM25	34493	3	0704020	3-21	U32	30100	4	0201020	2-6	UK520SIE	77726	7	0101020	1-12	ZA5	38228	7	0701010	2-20
GM32	34484	1	0704020	3-21	U32R2	71707	2	0201010	2-10	UK520STE	77722	9	0101020	1-12	ZA5P10	62382	3	0701010	2-20
GM34	34489	6	0704020	3-21	U32TE	71591	7	0201020	2-6	UK530BE	77621	5	0101030	1-12	ZA6	38227	0	0701010	2-20
GM35	34494	0	0704020	3-21	U32TR2	71721	8	0201010	2-10	UK530E	77602	4	0101030	1-12	ZA6P10	62380	9	0701010	2-20
GM40	34475	9	0704020	3-21	U41	30101	1	0201031	2-7	UK530SBE	77707	6	0101030	1-12	ZA89P20	62376	2	0703010	1-15
GM42	34485	8	0704020	3-21	U41R3	71708	9	0201020	2-10	UK530SE	77703	8	0101030	1-12	ZB107E	71211	4	0704010	2-20
GM44	34490	2	0704020	3-21	U41TE	71592	4	0201030	2-7	UK530SIE	77727	4	0101030	1-12	ZB108E	71212	1	0704010	2-20
GM45	34495	7	0704020	3-21	U41TR3	71722	5	0201020	2-10	UK530STE	77723	6	0101030	1-12	ZB111	38479	3	0704010	2-18
GM50	34476	6	0704020	3-21	U42	30102	8	0201031	2-7	UK540BE	77622	2	0101040	1-12	ZB111	38479	3	0704010	3-6
GM52	34486	5	0704020	3-21	U42/2	30118	9	0201031	2-7	UK540E	77603	1	0101040	1-12	ZB113	38478	6	0704010	2-18
GM54	34491	9	0704020	3-21	U42D	38152	5	0201030	2-6	UK540SBE	77708	3	0101040	1-12	ZB113	38478	6	0704010	3-6
GM55	34496	4	0704020	3-21	U42FPT	38151	8	0201030	2-6	UK540SE	77704	5	0101040	1-12	ZB19	38187	7	0701010	2-23
TA41	67700	0	0204030	2-15	U42M	30146	2	0201030	2-7	UK540SIE	77728	1	0101040	1-12	ZB18P20	62389	2	0701010	2-22
TA42	67701	7	0204030	2-15	U42R3	71709	6	0201020	2-10	UK540STE	77724	3	0101040	1-12	ZB28P20	62389	2	0701010	4-12
TA43	67702	4	0204030	2-15	U42TE	71593	1	0201030	2-7	UZ1	30870	6	0703010	1-15	ZB28P500	64148	3	0701010	4-12
TA61	67706	2	0204050	2-15	U42TR3	71723	2	0201020	2-10	UZ2	30885	0	0703010	1-15	ZB36P20	62390	8	0701010	2-22
TA62	67707	9	0204050	2-15	U43	30103	5	0201030	2-7	UZ3	30882	9	0703010	1-15	ZB36P20	62390	8	0701010	4-13
TA63	67708	6	0204050	2-15	U43R3	71710	2	0201020	2-10	UZ4P2	62447	9	0703010	1-14	ZB40	38195	2	0701010	2-20
TTS10	62026	6	0704010	2-24	U43TR3	71724	9	0201020	2-10	UZ5	30871	3	0703010	1-15	ZB40	38195	2	0701010	3-6
TTS10	62026	6	0704010	3-23	U51	30104	2	0201041	2-7	UZ51	30878	2	0703010	1-15	ZB43	38183	9	0706010	2-20
TTS11	62031	0	0704010	2-24	U51R4	71711	9	0201030	2-11	UZ510A	30845	4	0703010	1-14	ZB43	38183	9	0706010	3-6
TTS11	62031	0	0704010	3-23	U51TE	71594	8	0201040	2-7	UZ510AE	77615	4	0703010	1-14	ZB61P10	62393	9	0701010	4-16
TTS12	62036	5	0704010	2-24	U51TR4	71725	6	0201030	2-11	UZ510G	30841	6	0703010	1-14	ZB62P10	62394	6	0701010	4-16
TTS12	62036	5	0704010	3-23	U52	30105	9	0201041	2-7	UZ510M	30872	0	0703010	1-15	ZB63P10	62395	3	0701010	4-16
TTS13	62041	9	0704010	3-23	U52/2	30119	6	0201041	2-7	UZ52	30879	9	0703010	1-15	ZB64P10	62396	0	0701010	4-16
TTS14	62046	4	0704010	3-23	U52K	30106	6	0201040	2-7	UZ520A	30846	1	0703010	1-14	ZB65P10	62397	7	0701010	4-16
TTS15	62051	8	0704010	3-23	U52R4	71712	6	0201030	2-11	UZ520AE	77616	1	0703010	1-14	ZB67P10	62398	4	0701010	4-16
TTS20	62027	3	0704010	2-24	U52TE	71595	5	0201040	2-7	UZ520G	30842	3	0703010	1-14	ZB69P10	62399	1	0701010	4-16
TTS20	62027	3	0704010	3-23	U52TR4	71726	3	0201030	2-11	UZ520M	30873	7	0703010	1-15	ZB70	38570	7	0701010	4-16
TTS200	62022	8	0704010	2-24	U53	30107	3	0201040	2-8	UZ53	30880	5	0703010	1-15	ZE11	38143	3	0704010	2-20
TTS21	62032	7	0704010	2-24	U53K	30108	0	0201040	2-8	UZ530A	30847	8	0703010	1-14	ZE12	38144	0	0704010	2-20
TTS21	62032	7	0704010	3-23	U53M	30147	9	0201040	2-8	UZ530G	30843	0	0703010	1-14	ZH12	61157	8	0701010	2-21
TTS22	62037	2	0704010	2-24	U53R4	71713	3	0201030	2-11	UZ530M	30874	4	0703010	1-15	ZH13	61194	3	0702020	2-21
TTS22	62037	2	0704010	3-23	U53TR4	71727	0	0201030	2-11	UZ54	30881	2	0703010	1-15	ZH130	60490	7	0701010	2-18
TTS23	62042	6	0704010	2-24	U54E	71784	3	0201040											

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	Ord.no.	Inspektion number				Ord.no.	Inspektion number				Ord.no.	Inspektion number				Ord.no.	Inspektion number		
ZH134	60494	5	0701010	3-7	ZK515	30957	4	0703010	1-14	ZX134LR	62490	5	0704010	2-22	ZX69	39069	5	0701010	2-20
ZH135	60495	2	0701010	2-18	ZK516	30958	1	0703010	1-14	ZX148	44018	5	0701010	2-21	ZX69	39069	5	0701010	4-10
ZH135	60495	2	0701010	3-7	ZK519	38502	8	0703010	1-21	ZX148	44018	5	0701010	4-15	ZX70	39070	1	0701010	2-20
ZH136	60496	9	0701010	2-18	ZK520	38503	5	0703010	1-21	ZX21	39021	3	0701010	2-22	ZX70	39070	1	0701010	4-10
ZH136	60496	9	0701010	3-7	ZK521	38504	2	0703010	1-21	ZX21P30	62554	4	0701010	2-22	ZX71	39071	8	0701010	2-20
ZH137	60497	6	0701010	3-7	ZK522	38505	9	0703010	1-15	ZX22	39022	0	0701010	2-22	ZX71	39071	8	0701010	4-10
ZH138	60498	3	0701010	2-19	ZK522	38505	9	0703010	2-23	ZX22P30	62555	1	0701010	2-22	ZX72	39072	5	0701010	2-20
ZH138	60498	3	0701010	3-7	ZK523	38506	6	0701010	3-22	ZX297P10	62541	4	0701010	4-14	ZX72	39072	5	0701010	4-10
ZH139	60499	0	0701010	2-19	ZK523	38506	6	0701010	4-16	ZX298P10	62542	1	0701010	4-14	ZX73	39073	2	0701010	2-20
ZH139	60499	0	0701010	3-7	ZK525	38508	0	0701010	2-23	ZX31	39031	2	0701010	4-14	ZX73	39073	2	0701010	4-10
ZH140	60500	3	0701010	2-19	ZK79	64879	6	0701010	4-15	ZX31P10	62480	6	0701010	4-14	ZX74	39074	9	0701010	4-10
ZH140	60500	3	0701010	3-7	ZK79P4	62421	9	0701010	2-23	ZX34	39034	3	0701010	4-14	ZX75	39075	6	0701010	4-10
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ZH141	60501	0	0701010	3-7	ZK79P50	62429	5	0701010	4-15	ZX371	68076	5	0706010	2-22	ZX87	39087	9	0701010	4-14
ZH142	60502	7	0701010	2-19	ZK81	64881	9	0701010	4-15	ZX372P2	62544	5	0706010	2-22	ZX91	39091	6	0701010	4-7
ZH142	60502	7	0701010	3-7	ZK81P4	62422	6	0701010	2-23	ZX372P20	68615	6	0706010	2-22					
ZH148	60508	9	0701010	3-23	ZK81P50	62431	8	0701010	2-23	ZX374	68079	6	0706010	2-21					
ZH15	61196	7	0702020	2-21	ZK81P50	62431	8	0701010	4-15	ZX389	68190	8	0706010	2-22					
ZH157	60657	4	0701010	2-19	ZK83	64883	3	0701010	4-15	ZX440	39570	6	0704010	2-19					
ZH157	60657	4	0701010	3-7	ZK83P50	62433	2	0701010	4-15	ZX440	39570	6	0704010	3-6					
ZH158	60658	1	0701010	2-19	ZK87	64887	1	0701010	4-15	ZX441	39571	3	0704010	2-19					
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ZH16	38197	6	0701010	2-21	ZK90P100	68613	2	0701010	2-22	ZX442	39572	0	0704010	2-19					
ZH160	60660	4	0701010	2-18	ZK90P2	62426	4	0701010	2-22	ZX442	39572	0	0704010	3-6					
ZH160	60660	4	0701010	3-7	ZK90P2	62426	4	0701010	4-12	ZX443	39573	7	0704010	2-19					
ZH161	60661	1	0701010	2-18	ZKV200P4	62446	2	0704010	2-20	ZX443	39573	7	0704010	3-6					
ZH161	60661	1	0701010	3-7	ZKV201	38148	8	0701010	2-23	ZX444	39574	4	0704010	3-6					
ZH162	60662	8	0701010	2-19	ZKV202	38149	5	0704010	2-23	ZX445	39575	1	0704010	3-6					
ZH162	60662	8	0701010	3-7	ZP53E	72165	9	0704010	3-22	ZX454	39199	9	0704010	3-6					
ZH163	60663	5	0701010	2-19	ZP54E	72166	6	0704010	3-22	ZX455	39192	0	0704010	3-6					
ZH163	60663	5	0701010	3-7	ZP55	38536	3	0704010	3-6	ZX456	39586	7	0704010	2-18					
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ZH164	60664	2	0701010	3-7	ZP56	38534	9	0704010	3-6	ZX457	39587	4	0704010	2-18					
ZH165	60665	9	0701010	3-7	ZP56P10	62451	6	0704010	3-6	ZX457	39587	4	0704010	3-6					
ZH214	60443	3	0701010	2-21	ZP57	38535	6	0704010	3-6	ZX458	39588	1	0704010	2-18					
ZH220	45700	8	0701010	2-18	ZP57P10	62452	3	0704010	3-6	ZX458	39588	1	0704010	3-6					
ZH220	45700	8	0701010	3-7	ZP58	38538	7	0704010	3-6	ZX459	39589	8	0704010	2-18					
ZH221	45701	5	0701010	2-18	ZP58P10	62453	0	0704010	3-6	ZX459	39589	8	0704010	3-6					
ZH221	45701	5	0701010	3-7	ZP74P4	62636	7	0704010	3-22	ZX460	39590	4	0704010	3-6					
ZH222	45702	2	0701010	2-19	ZW106P3	62460	8	0701010	3-23	ZX461	39591	1	0704010	3-6					
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ZH223	45703	9	0701010	3-6	ZW124	39506	5	0704010	3-6	ZX469	39541	6	0701010	4-14					
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ZH227	45708	4	0701010	3-6	ZW185	60355	9	0704010	3-7	ZX471	39543	0	0701010	4-14					
ZH228	45709	1	0701010	2-19	ZW186	60356	6	0704010	3-7	ZX472	39544	7	0701010	4-14					
ZH228	45709	1	0701010	3-6	ZW188	60358	0	0704010	3-7	ZX473	39545	4	0701010	4-14					
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ZH428	62955	9	0702020	4-15	ZW195	39395	5	0704010	3-23	ZX480	39550	8	0701010	4-14					
ZH429	62956	6	0702020	4-15	ZW336	67936	3	0704020	4-14	ZX481	39551	5	0701010	4-14					
ZH430	62957	3	0702020	4-15	ZW338	67938	7	0704020	4-14	ZX482	39552	2	0701010	4-14					
ZH438	62961	0	0702020	4-15	ZW339	67939	4	0704020	4-14	ZX483	39553	9	0701010	4-14					
ZH439	62962	7	0702020	4-15	ZW341	67941	7	0704020	4-14	ZX484	39554	6	0701010	4-14					
ZH440	62963	4	0702020	4-15	ZW342	67942	4	0704020	4-14	ZX485	39555	3	0701010	4-14					
ZH448	62965	8	0702020	4-15	ZW344	67944	8	0704020	4-14	ZX489	39556	0	0701010	4-14					
ZH800	38544	8	0704010	2-18	ZW345	67945	5	0704020	4-14	ZX490	39557	7	0701010	4-14					
ZH800	38544	8	0704010	3-6	ZW362	68070	3	0704020	4-14	ZX491	39558	4	0701010	4-14					
ZH91	66091	0	0701010	2-19	ZW363	68071	0	0704020	4-14	ZX492	39559	1	0701010	4-14					
ZH91	66091	0	0701010	3-7	ZW365	68073	4	0704020	4-14	ZX493	39560	7	0701010	4-14					
ZK150	64860	4	0701010	4-15	ZW51	39451	8	0704010	3-7	ZX494	39561	4	0701010	4-14					

For your own Notes





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