

## Subdistribution boards

Fire protection housing

Housing for preventive fire protection

Preventive fire protection is not just the job of the construction managers. Electrical designers and installers or switchgear manufacturers are responsible during planning and execution for making sure that their systems will not be the cause of a fire. In electrical switchgear, the following elements:

- Loose terminals
- Short circuits
- Fault arcs
- Overloads
- Insulation errors
- Lightning strikes

can cause a fire. Therefore, the system operator also needs to make the appropriate contribution by checking the electrical systems at fixed intervals, maintaining them and upgrading them as needed.

In the case of technical installations in industry or in building complexes with large concentrations of people, such as in airports, train stations, nursing homes, hospitals or hotels, it is vital that the functionality of safety-relevant electrical systems is maintained even during a fire.

ABB STRIEBEL & JOHN offers you an innovative housing system for preventive fire protection made of non-flammable material with optimal technical and economic expansion options.

A wide range of wall and standing housings are available in various cabinet sizes.

- 1 Fire protection from inside, fire resistance duration at least 30/90 minutes; The fire protection housing was tested in accordance with DIN 4102-11.
- 2 Fire protection from outside, fire resistance duration at least 30/90 minutes; The fire protection housing was tested in accordance with DIN 4102-12.

## Subdistribution boards

Fire protection housing  
General technical data

### Technical parameters

<b>Protection goal</b>	1 Fire protection from inside, fire resistance duration at least 30/90 minutes; The fire protection housing was tested in accordance with DIN 4102-11.  2 Fire protection from outside, fire resistance duration at least 30/90 minutes; The fire protection housing was tested in accordance with DIN 4102-12.
<b>Mounting type</b>	UP wall mounting/AP wall mounting/AP standing mounting
<b>Housing material</b>	Highly compressed, multi-layer fire protection panels (DIN 4102-1/DIN EN 13501-1) of building class 'A2' non-flammable, smoke-tight
<b>Surface</b>	coating light gray - similar to RAL 7035, edges in contrasting colors
<b>Door</b>	door hinge right or left as standard, left also possible after conversion, opening angle approx. 180 degrees
<b>Lock</b>	locking with sash lock through swivel handle with double bit half cylinder
<b>Interior expansion</b>	prepared for installing distributor fields and CombiLine module system fields
<b>Cable entries</b>	Top and bottom
<b>Standard ventilation</b>	Ventilation in case of fire self-closing
<b>Additional equipment</b>	IP54, various decorative surfaces, reinforced back wall for free installation, internal fan with smoke detector.

### Standards/regulations\*

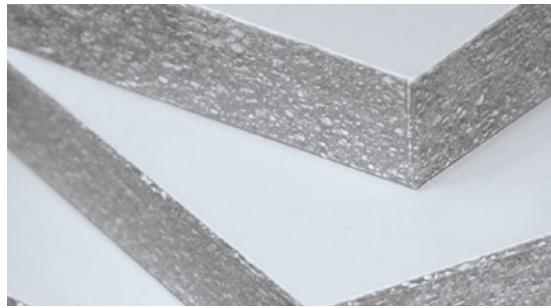
DIN EN 61439-2 (VDE 0660-600-2) (modules EDFmounting frame)	X
DIN 43880 (rail-mounted devices)	X
Protection class	IP41/IP44/IP54
Installation site/environment	Interior space
Ambient temperature, 24-hour average	+ 35°
Ambient temperature maximum value	+ 40°
Ambient temperature minimum value	- 5°

### Electrical characteristics

Rated impulse withstand voltage $U_{imp}$	III/6 kV
Pollution degree	3
Protection class	II
Rated surge current resistance $I_{pk}$ 0.1 sec	max. 25 kA
Rated short-time current $I_{cw}$ 1.0 sec	max. 12 kA
Rated frequency	50-60 Hz
Rated insulating voltage $U_i$	690 V
Rated operating voltage AC $U_e$	400 V

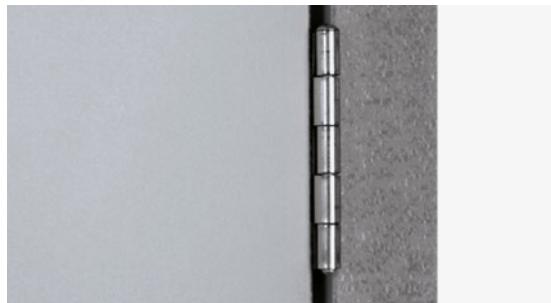
## Subdistribution boards

Fire protection housing  
Standard features



### Material/design

- Building material with surface – A2-s1, d0
- Fire resistance F30/F90
- Protection class depending on application, IP41, IP44 or IP54
- Smoke-tight
- Cold smoke-proof
- Wall thickness reduced to 72 mm



### Changeable door hinge

The door hinge is easy to change - to convert, unscrew the hinge from the door joint and screw it into the opposite joint. The door is fastened using the pre-drilled fixing holes in the door and the cabinet body. The door hinge is on the right as standard.

### Locking using the swivel handle

The doors have swivel levers in stainless steel look, which are located centrally and can be locked with double bit half cylinders

### Stainless steel hinges

High-quality stainless steel hinges with a push-out axle pin allow for easy removal of the door. If necessary, significant weight reduction can thus be achieved for transport.

## Subdistribution boards

Fire protection housing  
Standard features



### Mounting tabs

The flush-mounted wall housings are screwed from the outside with two mounting tabs attached to the head part, each with a dowel on the wall behind it. Therefore, the equipped housing can be easily and quickly mounted.



### Integrated ventilation system

Consisting of fan and smoke detector, ready for connection (230 V AC), this reduces the area that can be fitted by one grid unit (RE).

## Subdistribution boards

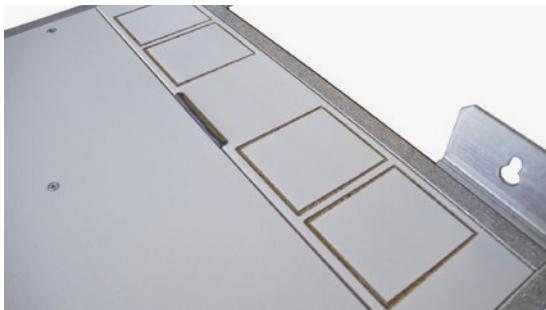
Fire protection housing

Standard features



### Cable sheath

Cable sheaths for bundle or individual cable entry are located at the top and bottom of the housing.



### Cable sheath (delivery condition)

The cable sheaths are standard in all wall and standing housings. This ensures quick and easy cable entry for every application.

### Silicone seal

To increase the protection class to IP54, a full-perimeter silicone seal is needed for the cable entry points (see page 103).



- Empty housing, prepared for installing distributor fields and CombiLine module system fields each minus one raster unit per housing
- Doors are easy to remove - axle pin can be pushed out (reduced transport weight)
- Door opening angle 180 degrees
- Locking with rod lock, 2-point locking
- Color light gray - similar to RAL7035, with colored edges
- High chemical resistance (surface characteristics based on DIN EN 438-2)
- High mechanical strength and stability, Brinell hardness 50 N/mm<sup>2</sup>
- High material density 1,450 kg/m<sup>3</sup>
- Integrated ventilation system (area that can be fitted is reduced by one grid unit)

## Subdistribution boards

Fire protection housing

Overview



Flush-mounted wall housing UF, IP41

Housing depth 205 mm  
Housing for flush mount



Surface-mount wall housing AF, IP44

Housing depth 349 mm (internal depth 240 mm)  
Housing for surface wall mounting



Standing housing SF, IP44

Housing depth 349 mm (internal depth 240 mm)  
Housing for standing installation



## Subdistribution boards

Fire protection housing

Overview

<b>Material + Decor</b>	<b>Fire Resistance</b>	<b>Fire Resistance</b>
<b>A2 Class</b>	<b>30 Min.</b>	<b>90 Min.</b>

— Sheath housing MF, IP41

Housing for mounting using available distributors



<b>Material + Decor</b>	<b>Smoke Protection</b>	<b>Fire Resistance</b>			
<b>A2 Class</b>	<b>min leakage</b>	<b>90 Min.</b>			

— Electric operating compartment in compact design KEB, IP54 □

Housing depth 586 mm

Housing to place individually equipped distributors

External ventilation system with functional integrity required

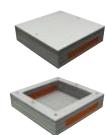


<b>Material + Decor</b>	<b>Fire Resistance</b>	<b>Fire Resistance</b>
<b>A2 Class</b>	<b>30 Min.</b>	<b>90 Min.</b>

— Terminal boxes without terminal block KF, IP41 □

Housing for wall or ceiling mounting

Mounting material for ceiling mounting available on request



Material + Decor	Fire Resistance	Fire Resistance
A2 Class	30 Min.	90 Min.

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**Facing doors VF, IP54**

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Doors which are installed in front of existing flush-mounted distributors

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## Subdistribution boards

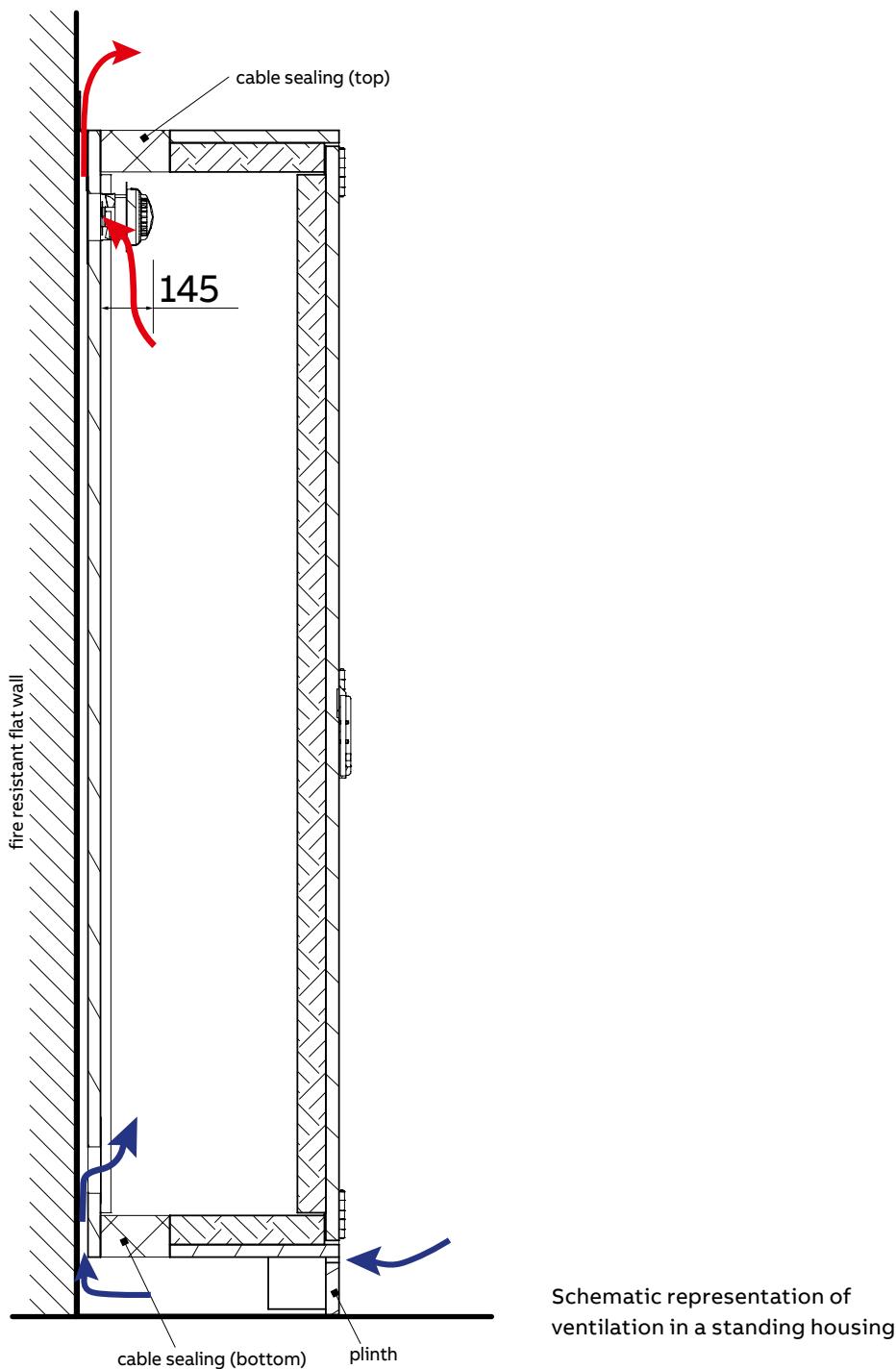
Fire protection housing

Additional equipment

### Wall housing/standing housing when mounting or installing as freestanding unit

If installing as a free-standing unit, or in case of an extremely uneven wall, a BRW18 - BRW38 fire protection plate (42 mm thick) must be additionally screwed onto the back wall of the housing.

> The fire protection plate must be ordered separately, see page 103  
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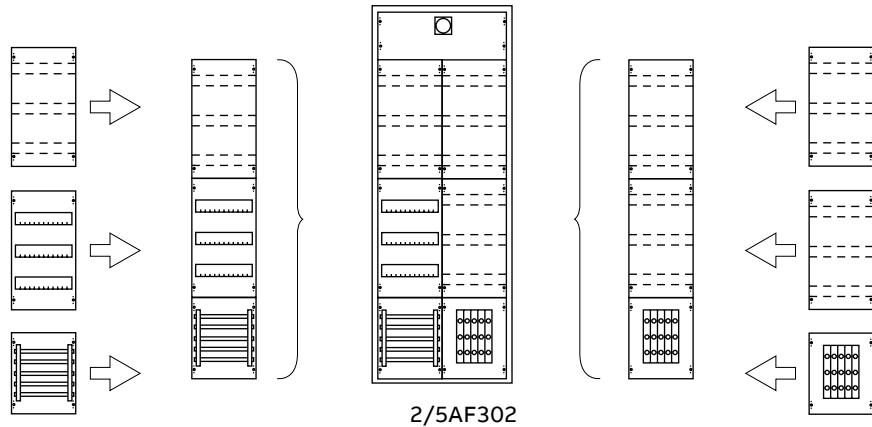
## Subdistribution boards

Fire protection housing

Configuration example/mounting instructions

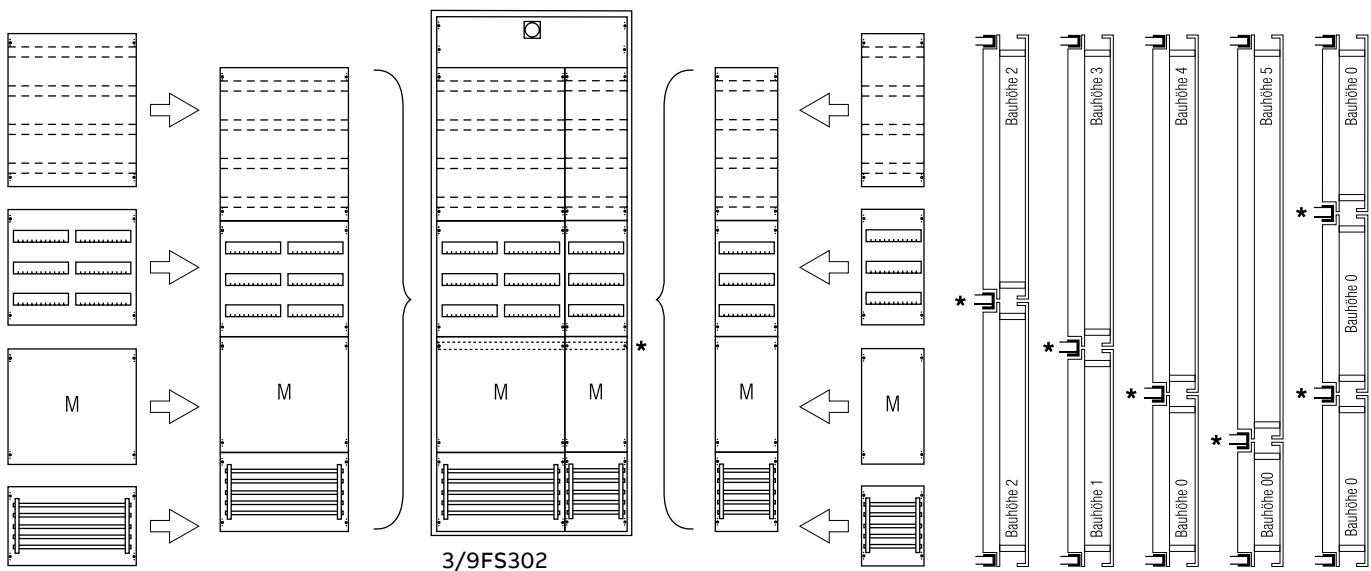
**Configuration example:**

**Surface-mount wall housing AF**



**Configuration example:**

**Standing housing SF**



\*Middle support rail adjustable up and down

### Important notes

For flush-mounted, surface-mounted and standing housings, the mounting frames needed to hold the CombiLine modules or distributor panels are prefitted (for CombiLine modules and distributor fields/combination sets see chapter 9)

There is a fan in the upper part of the housing which occupies the space of one grid unit (1 RE). This space has a closed cover and is not available for the installation of CombiLine modules or distributor fields/combination sets.

When planning modular system fields for standing housings, the middle support rail, which extends over the entire width of the housing, must be taken into account (see configuration example Standing housing SF).

## Subdistribution boards

Fire protection housing  
Flush-mounted wall housing

Material + Decor	Fire Resistance	Fire Resistance
A2 Class	30 Min.	90 Min.

Flush-mounted wall housing UF, IP41 ☒



Housing depth 205 mm  
Housing for flush mount

### Main features

- Material with A2 surface coating - non-combustible, tested in accordance with DIN 4102-1
- Fire resistance F30/F90, tested in accordance with DIN 4102-2
- Protection type in accordance with IP41 ☒ protection class II
- Smoke-tight, cold smoke-tight

### Structure

- Flush mount (solid wall F30/F90)
- Prepared for installation of distributor fields
- Prepared for expansion with CombiLine modules on EDFmounting frame
- Changeable door hinge
- Door can be de-attached, thereby reducing weight
- Locking with sash lock using swivel handle with double bit half cylinder
- Cable entry at the bottom and top
- Door internal
- Opening angle 180 degrees

### Surface

- Color light gray - similar to RAL 7035, with colored edges
- High chemical resistance
- High mechanical strength and stability

### Additional equipment/options

- A variety of decorative surfaces

## Subdistribution boards

Fire protection housing

Flush-mounted wall housing, IP41 □, depth 205 mm

<b>Material + Decor</b>	<b>Fire Resistance</b>
<b>A2 Class</b>	<b>30 Min.</b>

— Flush-mounted wall housing IP41 □, depth 205 mm

Overall height	Locking unit	Field width	Door hinge	Space units	External dimensions in mm H × W × D	Type code	Order code	Price	Weight
								1 piece	1 piece
RE	FB			PLE					kg
0	4	1	right	48	682 × 332 × 205	1/0UF2020	2CPX040008R9999	41	
0	4	1	left	48	682 × 332 × 205	1/0UF2120	2CPX040009R9999	41	
0	4	2	right	96	682 × 582 × 205	2/0UF2020	2CPX040020R9999	58	
0	4	2	left	96	682 × 582 × 205	2/0UF2120	2CPX040021R9999	58	
2	6	1	left	72	982 × 332 × 205	1/2UF2120	2CPX040029R9999	55	
2	6	2	right	144	982 × 582 × 205	2/2UF2020	2CPX040040R9999	80	
2	6	2	left	144	982 × 582 × 205	2/2UF2120	2CPX040041R9999	80	

<b>Material + Decor</b>	<b>Fire Resistance</b>
<b>A2 Class</b>	<b>90 Min.</b>

— Flush-mounted wall housing IP41 □, depth 205 mm

Overall height	Locking unit	Field width	Door hinge	Space units	External dimensions in mm H × W × D	Type code	Order code	Price	Weight
								1 piece	1 piece
RE	FB			PLE					kg
0	4	1	right	48	682 × 332 × 205	1/0UF2021	2CPX040052R9999	49	
0	4	1	left	48	682 × 332 × 205	1/0UF2121	2CPX040053R9999	49	
0	4	2	right	96	682 × 582 × 205	2/0UF2021	2CPX040064R9999	70	
0	4	2	left	96	682 × 582 × 205	2/0UF2121	2CPX040065R9999	70	
2	6	1	right	72	982 × 332 × 205	1/2UF2021	2CPX040076R9999	67	
2	6	1	left	72	982 × 332 × 205	1/2UF2121	2CPX040077R9999	67	
2	6	2	right	144	982 × 582 × 205	2/2UF2021	2CPX040088R9999	99	
2	6	2	left	144	982 × 582 × 205	2/2UF2121	2CPX040089R9999	99	

> For dimensions and weights, see page 103

> For CombiLine modules and distributor panels see chapter on interior expansion systems

## Subdistribution boards

Fire protection housing  
Surface-mount wall housing

Material + Decor	Fire Resistance	Fire Resistance
A2 Class	30 Min.	90 Min.

— Surface-mount wall housing AF, IP44 ☐



Housing depth 349 mm  
Housing for surface wall mounting

### Main features

- Material with A2 surface coating - non-combustible, tested in accordance with DIN 4102-1/EN 135 01-1
- Fire resistance F30/F90, tested in accordance with DIN 4102-2
- Protection type in accordance with IP44 ☐ protection class II
- Smoke-tight, cold smoke-tight
- Ventilation system in the rear wall

### Structure

- Wall mounting (solid wall F30/F90)
- Prepared for installation of distributor fields
- Prepared for expansion with CombiLine modules on EDFmounting frame
- Changeable door hinge on site, standard right
- Door can be de-attached, thereby reducing weight
- Locking with rod lock using swivel handle with double bit half cylinder
- Cable entry at the bottom and top
- Mounting tabs placed externally
- Door internal
- Opening angle 180 degrees

### Surface

- Color light gray - similar to RAL 7035, with colored edges
- High chemical resistance
- High mechanical strength and stability

## Subdistribution boards

Fire protection housing

Surface-mount housing, IP44 □, depth 349 mm

<b>Material + Decor</b>	<b>Fire Resistance</b>
A2 Class	30 Min.

— Surface-mount housing, IP44 □, depth 349 mm

Overall height	Locking unit	Field width	Space units	External dimensions in mm			Price 1 piece	Weight 1 piece		
					RE	FB	PLE	H × W × D	Type code	Order code
0	3	1	36	598 × 398 × 349			1/00AF302	2CPX043265R9999		51
0	3	2	72	598 × 648 × 349			2/00AF302	2CPX043266R9999		71
0	4	1	48	748 × 398 × 349			1/0AF302	2CPX043267R9999		62
0	4	2	96	748 × 648 × 349			2/0AF302	2CPX043268R9999		85
1	5	1	60	898 × 398 × 349			1/1AF302	2CPX043269R9999		73
1	5	2	120	898 × 648 × 349			2/1AF302	2CPX043270R9999		99
2	6	1	72	1048 × 398 × 349			1/2AF302	2CPX043271R9999		83
2	6	2	144	1048 × 648 × 349			2/2AF302	2CPX043272R9999		114
3	7	1	84	1198 × 398 × 349			1/3AF302	2CPX043274R9999		94
3	7	2	168	1198 × 648 × 349			2/3AF302	2CPX043275R9999		128
3	7	3	252	1198 × 898 × 349			3/3AF302	2CPX043276R9999		163
4	8	2	192	1348 × 648 × 349			2/4AF302	2CPX043278R9999		143
5	9	2	216	1498 × 648 × 349			2/5AF302	2CPX043281R9999		157

<b>Material + Decor</b>	<b>Fire Resistance</b>
A2 Class	90 Min.

— Surface-mount housing, IP44 □, depth 349 mm

Overall height	Locking unit	Field width	Space units	External dimensions in mm			Price 1 piece	Weight 1 piece		
					RE	FB	PLE	H × W × D	Type code	Order code
0	3	1	36	598 × 398 × 349			1/00AF303	2CPX043380R9999		53
0	4	1	48	748 × 398 × 349			1/0AF303	2CPX043381R9999		64
0	4	2	96	748 × 648 × 349			2/0AF303	2CPX043382R9999		87
1	5	1	60	898 × 398 × 349			1/1AF303	2CPX043383R9999		75
1	5	2	120	898 × 648 × 349			2/1AF303	2CPX043384R9999		101
2	6	1	72	1048 × 398 × 349			1/2AF303	2CPX043385R9999		85
2	6	2	144	1048 × 648 × 349			2/2AF303	2CPX043386R9999		114
2	6	3	216	1048 × 898 × 349			3/2AF303	2CPX043387R9999		119
3	7	1	84	1198 × 398 × 349			1/3AF303	2CPX043388R9999		96
3	7	2	168	1198 × 648 × 349			2/3AF303	2CPX043389R9999		130
3	7	3	252	1198 × 898 × 349			3/3AF303	2CPX043390R9999		165

### Important note

A cooling shutter is required for E90 function integrity

(Cooling shutters for cables, Cooling shutters for cables, see page 125)

> For surface-mount wall housing dimensions and weights, see page For surface-mount wall housing dimensions and weights, see page 103

> For CombiLine modules and distributor panels see chapter on interior expansion systems

## Subdistribution boards

Fire protection housing

Standing housing

Material + Decor	Fire Resistance	Fire Resistance
A2 Class	30 Min.	90 Min.

— Standing housing SF, IP44 ☒



Housing depth 349 mm  
Housing for standing installation

### Main features

- Material with A2 surface coating - non-combustible, tested in accordance with DIN 4102-1 / EN 135 01-1
- Fire resistance F30/F90, tested in accordance with DIN 4102-2
- Protection type in accordance with IP44 ☒ protection class II
- Smoke-tight, cold smoke-tight
- Ventilation system in the rear wall

### Structure

- Freestanding installation
- Prepared for installation of distributor fields
- Prepared for expansion with CombiLine modules on EDFmounting frame
- Changeable door hinge, option of right or left
- Door can be de-attached, thereby reducing weight
- Locking with rod lock using swivel handle with double bit half cylinder
- Cable sheath for bundle entry or single entry
- Cable entry point, top and bottom
- Door internal
- Opening angle 180 degrees
- Base with removable front for pallet truck
- Ventilation system through the back wall of the housing

### Surface

- Color light gray - similar to RAL 7035, with colored edges
- High chemical resistance
- High mechanical strength and stability

### Important note

If installing as a free-standing unit, or in case of an extremely uneven wall, a fire protection plate (42 mm thick) must be additionally screwed onto the back wall of the housing (see page 103)

## Subdistribution boards

Fire protection housing

Standing housing, IP44 □, depth 349 mm

Material + Decor A2 Class	Fire Resistance 30 Min.
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— Standing housing IP44 □, depth 349 mm

Overall height	Locking unit	Field width	Door hinge	Space units	External dimensions in mm H × W × D	Type code	Order code	Price	Weight
								1 piece	1 piece
8	12	1	right	144	2048 × 398 × 349	1/8SF302	2CPX043290R9999	152	
8	12	2	right	288	2048 × 648 × 349	2/8SF302	2CPX043292R9999	206	
8	12	3	right	432	2048 × 898 × 349	3/8SF302	2CPX043294R9999	259	
9	13	1	right	156	2198 × 398 × 349	1/9SF302	2CPX043304R9999	163	
9	13	2	right	312	2198 × 648 × 349	2/9SF302	2CPX043306R9999	220	
9	13	3	right	468	2198 × 898 × 349	3/9SF302	2CPX043308R9999	278	

Material + Decor A2 Class	Fire Resistance 90 Min.
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— Standing housing IP44 □, depth 349 mm

Overall height	Locking unit	Field width	Door hinge	Space units	External dimensions in mm H × W × D	Type code	Order code	Price	Weight
								1 piece	1 piece
8	12	1	right	144	2048 × 398 × 349	1/8SF303	2CPX043391R9999	154	
8	12	2	right	288	2048 × 648 × 349	2/8SF303	2CPX043392R9999	208	
8	12	3	right	432	2048 × 898 × 349	3/8SF303	2CPX043393R9999	261	
9	13	1	right	156	2198 × 398 × 349	1/9SF303	2CPX043394R9999	165	
9	13	2	right	312	2198 × 648 × 349	2/9SF303	2CPX043395R9999	222	
9	13	3	right	468	2198 × 898 × 349	3/9SF303	2CPX043396R9999	280	

### Important note

A cooling shutter is required for E90 function integrity

(Cooling shutters for cables, see page Cooling shutters for cables, see page 125)

## Subdistribution boards

Fire protection housing  
Sheath housing

Material + Decor	Fire Resistance	Fire Resistance
A2 Class	30 Min.	90 Min.

— Sheath housing MF, IP41



Housing depth 396 mm

Housing for mounting using available distributors

### Main features

- Material with A2 surface coating - non-combustible, tested in accordance with DIN 4102-1
- Fire resistance F30/F90, tested in accordance with DIN 4102-2
- Protection class in accordance with IP41
- Smoke-tight

### Structure

- Wall mounting
- Changeable door hinge
- Door can be de-attached, thereby reducing weight
- Locking with rod lock using swivel handle with double bit half cylinder
- Cable sheath for bundle entry
- Door internal
- Opening angle 180 degrees

### Surface

- Color light gray - similar to RAL 7035, with colored edges
- High chemical resistance
- High mechanical strength and stability

### Important note

The sheath housings are not suitable for fan mounting.  
Sheath housings may only be mounted on fire-resistant walls.

## Subdistribution boards

Fire protection housing

Sheath housing, IP41, depth 396 mm

<b>Material + Decor</b>	<b>Fire Resistance</b>
A2 Class	30 Min.

— Sheath housing, IP41, depth 396 mm

Internal dimensions in mm H × W × D	External dimensions in mm H × W × D	Type code	Order code	Price 1 piece	Weight 1 piece
665 × 354 × 240	829 × 518 × 340	1/0MF300	2CPX042420R9999	85	
815 × 354 × 240	979 × 518 × 340	1/1MF300	2CPX042421R9999	97	
815 × 604 × 240	979 × 768 × 340	2/1MF300	2CPX042422R9999	124	
1115 × 354 × 240	1279 × 518 × 340	1/3MF300	2CPX042423R9999	121	

<b>Fire Resistance</b>
90 Min.

— Sheath housing, IP41, depth 396 mm

Internal dimensions in mm H × W × D	External dimensions in mm H × W × D	Type code	Order code	Price 1 piece	Weight 1 piece
665 × 354 × 240	829 × 518 × 340	1/0MF301	2CPX042424R9999	89	
815 × 354 × 240	979 × 518 × 340	1/1MF301	2CPX042425R9999	101	
815 × 604 × 240	979 × 768 × 340	2/1MF301	2CPX042426R9999	127	
1115 × 354 × 240	1279 × 518 × 340	1/3MF301	2CPX042427R9999	125	

### Important note

A cooling shutter is required for E90 function integrity  
(Cooling shutters for cables, see page 125)

## Subdistribution boards

Fire protection housing

Accessories

Article	Dimensions in mm			Price 1 piece	Weight 1 piece
		H × W × D	Type code	Order code	kg
<b>Fire protection panel</b> If installing as a free-standing unit, or in case of an extremely uneven wall, a fire protection plate (42 mm thick) must be additionally screwed onto the back wall of the housing.					
BRW28					
for 1/8SF...		BRW18	2CPX042424R9999	30	
for 2/8SF...		BRW28	2CPX042425R9999	60	
for 3/8SF...		BRW38	2CPX042426R9999	90	
<b>Cooling shutters for cables</b> Is always required for E90 function integrity					
field width 1	300 × 274 × 238	BKF1	2CPX041107R9999	13	
2-field width	300 × 508 × 238	BKF2	2CPX041108R9999	18	
3-field width	300 × 742 × 238	BKF3	2CPX041109R9999	23	
<b>Required accessories for conversion to IP54</b>					
Silicone for sealing cable entries with IP54 protection class	ZB900		2CPX042432R9999		



BRW28



## **Subdistribution boards**

## Fire protection housing

## Notes

## Subdistribution boards

Fire protection housing

Electric functional unit in compact design/fire resistance 90 minutes

Fire-resistant functional unit made of non-combustible A2 building material for enclosing electrical safety systems as prescribed by building regulations. Complete distributor housings, e.g. TwinLine, with at least IP54 protection are installed in the fire-resistant functional units.

Housing of individually equipped low-voltage switchgear assemblies without separate building law proof for functional integrity (MLAR/MEltBauVO).

In this design, switchgear assemblies are suited for higher power dissipation than fire protection housings.

**Important!**

The functional units are prepared for connection to on-site ventilation systems. The ventilation system must be designed so that ventilation is guaranteed for the intended time even in case of fire.

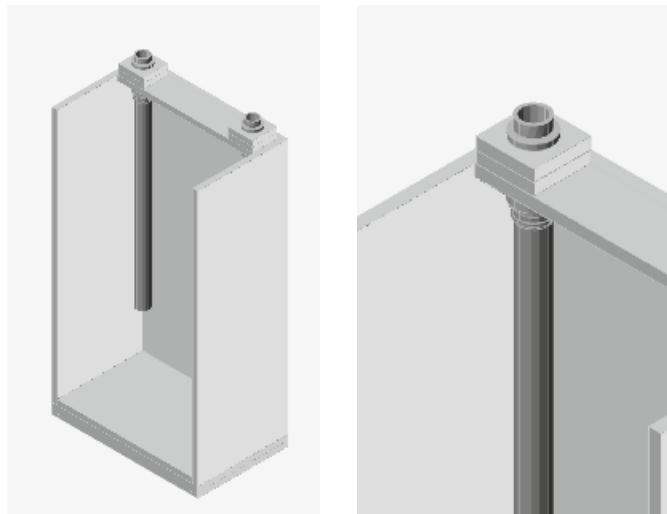


For a more clear illustration, there are no doors in the figures presented

## Subdistribution boards

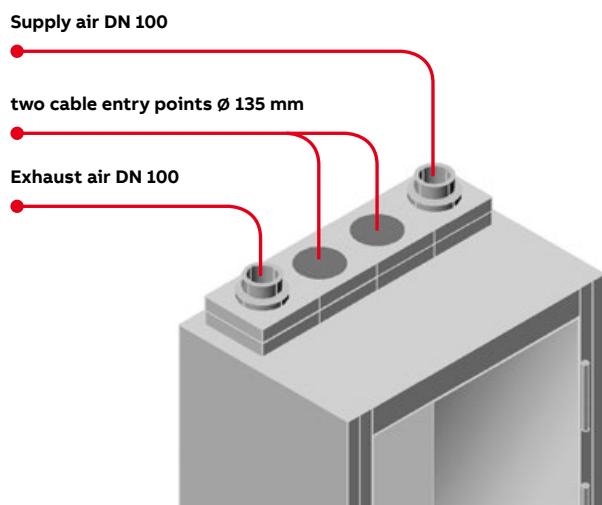
Fire protection housing

Electric functional unit in compact design/fire resistance 90 minutes



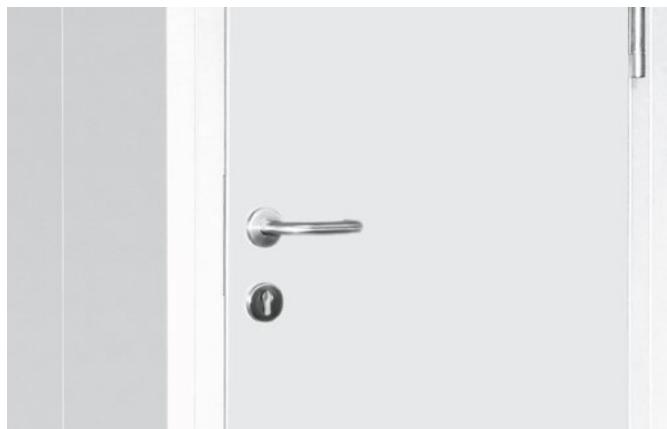
### Ventilation

The functional units are prepared for connection to on-site ventilation systems. The ventilation system must be designed so that ventilation is guaranteed for the intended time even in case of fire.



### Cable entry

Cable entry from the top through two fire-resistant cable ducts.



### Door

- With door handle, smoke-tight, self-closing
- Prepared for profile half cylinder
- Optionally with fire-proof window

### Types of delivery

- Completely assembled
- As a kit for self-assembly

## Subdistribution boards

Fire protection housing

Electric functional unit in compact design/fire resistance 90 minutes



Electric functional unit in compact design KEB, IP54



Depth 586 mm  
Housing in compact design

### Main features

- Fire resistance 90 minutes, fire resistant
- EI 90/F 90 classification walls/ceiling
- T 90-RS classification of the door
- Smoke-tight door, tested for permanent function, self-closing
- IP54 protection class

### Structure

- Functional unit with high mechanical and chemical resistance in two standard sizes
- Fire protection through the creation of a separate fire compartment
- Free-standing construction
- Door opening angle 180 degrees, self-closing
- De-attachable door, handle set in aluminum silver
- Locking via 3-latch lock for profile half cylinder
- Door with all-round smoke and fire protection seals, self-foaming in case of fire
- Fire-resistant, smoke-tight supply/exhaust air system per NW 100 mm for connection to on-site ventilation system
- Fire resistant cable sheaths 135 mm diameter
- Base mounted, included in scope of delivery

### Material

- Material with surface coating, classified A2 - s1, d0: non-flammable
- Standard surface HPL is chemically highly resistant and insensitive to moisture
- Standard color light gray, similar to RAL 7035, edges and chamfers are darkened

### Additional equipment/options

- Fire-proof viewing window in the door
- Additional cable entry point

## Subdistribution boards

Fire protection housing  
Functional units/base



KEB28R

Field width FB	External dimensions in mm H × W × D	Door hinge	Type code	Order code	Price 1 piece	Weight 1 piece kg
<b>Completely mounted</b>						
2-field width	2501 × 894 × 586	right	KEB28R	2CPX042930R9999	662	
	2501 × 894 × 586	left	KEB28L	2CPX042931R9999	662	
<b>As a kit</b>						
2-field width	2501 × 894 × 586	right	KEB28RB	2CPX042932R9999	662	
	2501 × 894 × 586	left	KEB28LB	2CPX042933R9999	662	



KEB38R

<b>Completely mounted</b>						
3-field width	2501 × 1144 × 586	right	KEB38R	2CPX042934R9999	692	
	2501 × 1144 × 586	left	KEB38L	2CPX042935R9999	692	
<b>As a kit</b>						
3-field width	2501 × 1144 × 586	right	KEB38RB	2CPX042936R9999	692	
	2501 × 1144 × 586	left	KEB38LB	2CPX042937R9999	692	



BSR2

Article	Dimensions in mm	H × W × D	Type code	Order code	Price 1 piece	Weight 1 piece
Base*	Width 810 mm 2-field width	84 × 894 × 586	BSR2	2CPX042938R9999	50	
Base*	Width 1060 mm 3-field width	84 × 1144 × 586	BSR3	2CPX042939R9999	65	



BSR3

\* Bases are included in the scope of delivery of the functional units.

>For dimensions, see page 125

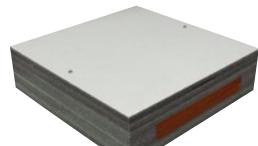
## Subdistribution boards

Fire protection housing

Terminal boxes without terminal block

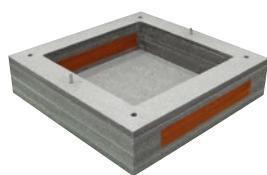
Material + Decor	Fire Resistance	Fire Resistance
A2 Class	30 Min.	90 Min.

Terminal boxes without terminal block KF, IP41 ☒



Housing for wall or ceiling mounting

Mounting material for ceiling mounting available on request



### Main features

- Material with A2 surface coating - non-combustible, tested in accordance with DIN 4102-1
- Fire resistance F30/F90, tested in accordance with DIN 4102-2
- Function integrity 30/90 minutes in accordance with DIN 4102-12
- Protection class in accordance with IP41 ☒
- Smoke-tight

### Structure

- Mounting via 4 holes in the frame corners using the enclosed mounting material
- Mounting to wall or ceiling possible
- Cover screwed with two self-locking nuts
- Cover provided with a handle groove
- Cable entry points from 2 sides
- In case of fire, the cable sheath automatically foams up
- Easy mounting of the fixtures using pre-drilled holes
- Easy insertion and clamping of the cables thanks to a detachable frame plate system (layer structure)

### Surface

- Color light gray - similar to RAL 7035, with colored edges
- High chemical resistance
- High mechanical strength and stability

## Subdistribution boards

Fire protection housing

Terminal boxes without terminal block, IP41 ☐

<b>Material + Decor</b>	<b>Fire Resistance</b>
<b>A2 Class</b>	<b>30 Min.</b>

Terminal boxes without terminal block, IP41 ☐

Internal dimensions in mm H × W × D	External dimensions in mm H × W × D	Cable entry point W × H	Number	Type code	Order code	Price 1 piece	Weight 1 piece kg
200 × 200 × 84	350 × 350 × 128	50 × 170	2	KF35140	2CPX041092R9999	17	
300 × 300 × 84	450 × 450 × 128	50 × 270	2	KF45140	2CPX041093R9999	25	
400 × 400 × 84	550 × 550 × 128	50 × 370	2	KF55140	2CPX041094R9999	34	

<b>Material + Decor</b>	<b>Fire Resistance</b>
<b>A2 Class</b>	<b>90 Min.</b>

Terminal boxes without terminal block, IP41 ☐

Internal dimensions in mm H × W × D	External dimensions in mm H × W × D	Cable entry point W × H	Number	Type code	Order code	Price 1 piece	Weight 1 piece kg
200 × 200 × 84	350 × 350 × 148	50 × 170	2	KF35161	2CPX041098R9999	21	
300 × 300 × 84	450 × 450 × 148	50 × 270	2	KF45161	2CPX041099R9999	31	
400 × 400 × 84	550 × 550 × 148	50 × 370	2	KF55161	2CPX041100R9999	43	

## Subdistribution boards

Fire protection housing  
Facing doors

Material  
+ Decor  
**A2** Class

Fire  
Resistance  
**30** Min.

Fire  
Resistance  
**90** Min.

### Facing doors VF IP54

- Fire-resistant and smoke-tight seals
- Panel material with surface coating - non-flammable
- Fire resistance 30 and 90 minutes
- Mounting on different wall constructions

Fire protection facing doors are intended for the separation of existing flush-mounted wall distributions from escape and rescue paths (fire load insulation in accordance with MLAR). Likewise, functional integrity in case of fire is guaranteed if the appropriate proof can be provided.



## Subdistribution boards

Fire protection housing  
Facing doors

<b>Material + Decor</b>	<b>Fire Resistance</b>	<b>Fire Resistance</b>
<b>A2 Class</b>	<b>30 Min.</b>	<b>90 Min.</b>



Tested material with surface coating DIN 4102  
Part 1; material class A2



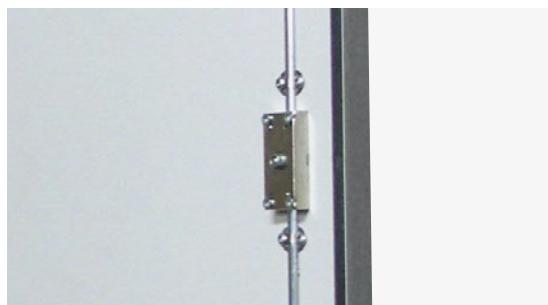
Integrated frame with mounting points



Removable stainless steel hinges



Fire and smoke protection seal all around



2-point locking using rod lock



Swivel handle in stainless steel look with double bit half-cylinder

In the standard version, the distributor may protrude 20 mm out of the wall at the most. Old doors should be de-attached and removed. The facing door must be at least 115 mm above the existing distributor, i.e. this covering dimension plus the door thickness, due to the opening angle, must be maintained around the existing distributor.

If the current distributor protrudes more than 20 mm from the wall, an additional extension frame can be ordered for the facing door.

## Subdistribution boards

Fire protection housing

Facing doors

Material + Decor A2 Class	Fire Resistance 30 Min.	Fire Resistance 90 Min.
------------------------------	----------------------------	----------------------------

Facing doors VF, IP54



Door depth for 30 minutes 51 mm

Door depth for 90 minutes 71 mm

Door mounted in front of existing flush-mounted distributors

### Function

- Material with A2 surface coating - non-combustible, tested in accordance with DIN 4102-1
- Fire resistance F30/F90, tested in accordance with DIN 4102-2
- Fire load insulation 30/90 minutes in accordance with DIN 4102-11
- Function integrity 30/90 minutes in accordance with DIN 4102-12
- Smoke-tight
- Protection class in accordance with IP54

### Structure

- 1-wing door
- Door opening angle approx. 180 degrees with F30 version, approx. 150 degrees with F90 version
- Door hinge on right
- Surrounding wall compensating frame (W x D: 115 x 28 mm) with mounting holes
- Doors opening onto the frame
- Locking with swivel handle in metal look with DIN half cylinder
- 2-point locking with rod lock
- Stainless steel hinges with push-out axle pin for de-attaching the door wings
- Mounting material: Frame dowels, screws included in scope of delivery

### Surface

- Color light gray - similar to RAL7035, with colored edges
- High chemical resistance
- High mechanical strength and stability, Brinell hardness 50 N/mm<sup>2</sup>
- High material density 1,450 kg/m<sup>3</sup>
- Surface characteristics based on DIN EN 438-2

### Additional equipment/options

- Additional compensating frame for larger covers
- A variety of decorative surfaces
- Door hinge on left

## Subdistribution boards

Fire protection housing

Facing doors, IP54, door depth 51 mm and 71 mm



**Facing doors, IP54, door depth 51 mm**

Overall height	Field width	Door hinge	Internal dimensions in/mm H × W × D	External dimensions in/mm H × W × D	Type code	Order code	Price 1 piece	Weight 1 piece kg
	FB							
0	1	right	665 × 345 × 0	895 × 575 × 51	1/0VF10	2CPX041048R9999	30	
0	2	right	665 × 565 × 0	895 × 795 × 51	2/0VF10	2CPX041049R9999	37	
1	2	right	815 × 565 × 0	1045 × 795 × 51	2/1VF10	2CPX041050R9999	42	
1	3	right	815 × 815 × 0	1045 × 1045 × 51	3/1VF10	2CPX041051R9999	53	
2	2	right	965 × 565 × 0	1195 × 795 × 51	2/2VF10	2CPX041052R9999	47	
2	3	right	965 × 815 × 0	1195 × 1045 × 51	3/2VF10	2CPX041053R9999	60	
2	4	Double door	965 × 1065 × 0	1195 × 1295 × 51	4/2VF20	2CPX041057R9999	72	
3	2	right	1115 × 565 × 0	1345 × 795 × 51	2/3VF10	2CPX043397R9999	58	
3	3	right	1115 × 815 × 0	1345 × 1045 × 51	3/3VF10	2CPX043398R9999	71	
3	4	Double door	1115 × 1065 × 0	1345 × 1295 × 51	4/3VF20	2CPX041058R9999	80	
4	2	right	1265 × 565 × 0	1495 × 795 × 51	2/4VF10	2CPX041054R9999	58	
4	3	right	1265 × 815 × 0	1495 × 1045 × 51	3/4VF10	2CPX041055R9999	73	
4	4	Double door	1265 × 1065 × 0	1495 × 1295 × 51	4/4VF20	2CPX041059R9999	88	
5	2	right	1415 × 565 × 0	1645 × 795 × 51	2/5VF10	2CPX043399R9999	70	
5	3	right	1415 × 815 × 0	1645 × 1045 × 51	3/5VF10	2CPX043400R9999	86	
5	4	Double door	1415 × 1065 × 0	1645 × 1295 × 51	4/5VF20	2CPX043401R9999	107	
8	2	right	1865 × 565 × 0	2095 × 795 × 51	2/8VF10	2CPX041056R9999	79	
8	4	Double door	1865 × 1065 × 0	2095 × 1295 × 51	4/8VF20	2CPX041060R9999	119	



**Facing doors, IP54, door depth 51 mm**

Overall height	Field width	Door hinge	Internal dimensions in/mm H × W × D	External dimensions in/mm H × W × D	Type code	Order code	Price 1 piece	Weight 1 piece kg
	FB							
0	1	right	665 × 345 × 22	895 × 575 × 71	1/0VF11	2CPX041061R9999	42	
0	2	right	665 × 565 × 22	895 × 795 × 71	2/0VF11	2CPX041062R9999	58	
1	2	right	815 × 565 × 22	1045 × 795 × 71	2/1VF11	2CPX041063R9999	67	
1	3	right	815 × 815 × 22	1045 × 1045 × 71	3/1VF11	2CPX041064R9999	86	
2	2	right	965 × 565 × 22	1195 × 795 × 71	2/2VF11	2CPX041065R9999	76	
2	3	right	965 × 815 × 22	1195 × 1045 × 71	3/2VF11	2CPX041066R9999	97	
2	4	Double door	965 × 1065 × 22	1195 × 1295 × 71	4/2VF21	2CPX041070R9999	118	
3	1	right	1115 × 345 × 22	1345 × 575 × 71	1/3VF11	2CPX043402R9999	70	
3	2	right	1115 × 565 × 22	1345 × 795 × 71	2/3VF11	2CPX043403R9999	90	
3	3	right	1115 × 815 × 22	1345 × 1045 × 71	3/3VF11	2CPX043404R9999	113	
3	4	Double door	1115 × 1065 × 22	1345 × 1295 × 71	4/3VF21	2CPX041071R9999	132	
4	2	right	1265 × 565 × 22	1495 × 795 × 71	2/4VF11	2CPX041067R9999	94	
4	3	right	1265 × 815 × 22	1495 × 1045 × 71	3/4VF11	2CPX041068R9999	120	
4	4	Double door	1265 × 1065 × 22	1495 × 1295 × 71	4/4VF21	2CPX041072R9999	146	
8	2	right	1865 × 565 × 22	2095 × 795 × 71	2/8VF11	2CPX041069R9999	129	
8	4	Double door	1865 × 1065 × 22	2095 × 1295 × 71	4/8VF21	2CPX041073R9999	201	

### Important notes

Minimum internal dimension of facing doors = niche dimension of the flush-mounted wall box without flush-mounted frame

Facing door swings over the frame on the hinge side =>

leave at least 40 mm (see page 123)

## Subdistribution boards

Fire protection housing

Extension frame for facing doors

Material + Decor <b>A2</b> Class	Fire Resistance <b>90</b> Min.
--	--------------------------------------

Overall height	Field width	Internal dimensions in mm	External dimensions in mm	Type code	Order code	Price 1 piece	Weight 1 piece
FB		H × W × D	H × W × D				kg
<b>Extension frame for 1-wing doors</b>							
0	1	665 × 345 × 22	895 × 575 × 22	1/OEF11	2CPX041074R9999	10	
0	2	665 × 565 × 22	895 × 795 × 22	2/OEF11	2CPX041075R9999	12	
1	2	815 × 565 × 22	1045 × 795 × 22	2/1EF11	2CPX041076R9999	13	
1	3	815 × 815 × 22	1045 × 1045 × 22	3/1EF11	2CPX041077R9999	15	
2	2	965 × 565 × 22	1195 × 795 × 22	2/2EF11	2CPX041078R9999	14	
2	3	965 × 815 × 22	1195 × 1045 × 22	3/2EF11	2CPX041079R9999	16	
4	2	1265 × 565 × 22	1495 × 795 × 22	2/4EF11	2CPX041080R9999	17	
4	3	1265 × 815 × 22	1495 × 1045 × 22	3/4EF11	2CPX041081R9999	19	
8	2	1865 × 565 × 22	2095 × 795 × 22	2/8EVF1	2CPX041082R9999	22	
<b>Extension frame for 2-wing doors</b>							
2	4	965 × 1065 × 22	1195 × 1295 × 22	4/2EF21	2CPX041083R9999	18	
3	4	1115 × 1065 × 22	1345 × 1295 × 22	4/3EF21	2CPX041084R9999	20	
4	4	1265 × 1065 × 22	1495 × 1295 × 22	4/4EF21	2CPX041085R9999	21	
8	4	1865 × 1065 × 22	2095 × 1295 × 22	4/8EF21	2CPX041086R9999	26	

2/2EF11



4/2EF21

## **Subdistribution boards**

## Fire protection housing

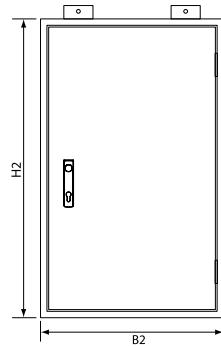
## Notes

## Subdistribution boards

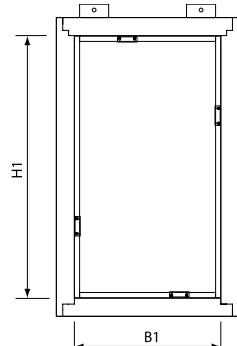
Flush-mounted wall housing

Dimensions, weights, power loss

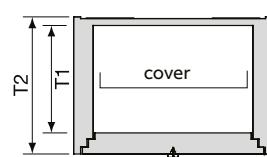
**Front view**



**Internal view**



**Top view**



Material + Decor <b>A2 Class</b>	Fire Resistance <b>30 Min.</b>
--	--------------------------------------

Permissible power dissipation (W) at 25 °C ambient temperature W	Internal dimensions in mm H1 × W1 × D1	External dimensions in mm H2 × W2 × D2	Type code	Order code	Price 1 piece	Weight 1 piece kg
11	600 × 250 × 138	682 × 332 × 205	1/0UF2020		41	
11	600 × 250 × 138	682 × 332 × 205	1/0UF2120		41	
22	600 × 500 × 138	682 × 582 × 205	2/0UF2020		58	
22	600 × 500 × 138	682 × 582 × 205	2/0UF2120		58	
16	900 × 250 × 138	982 × 332 × 205	1/2UF2020		55	
16	900 × 250 × 138	982 × 332 × 205	1/2UF2120		55	
32	900 × 500 × 138	982 × 582 × 205	2/2UF2020		80	
32	900 × 500 × 138	982 × 582 × 205	2/2UF2120		80	

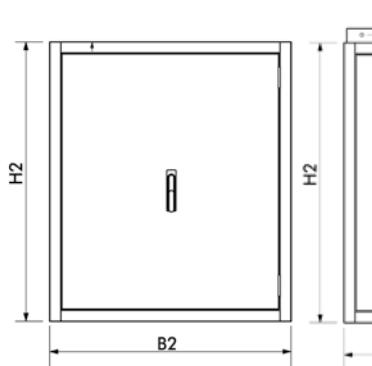
Material + Decor <b>A2 Class</b>	Fire Resistance <b>90 Min.</b>
--	--------------------------------------

Permissible power dissipation (W) at 25 °C ambient temperature W	Internal dimensions in mm H1 × W1 × D1	External dimensions in mm H2 × W2 × D2	Type code	Order code	Price 1 piece	Weight 1 piece kg
9	600 × 250 × 118	682 × 332 × 205	1/0UF2021		49	
9	600 × 250 × 118	682 × 332 × 205	1/0UF2121		49	
19	600 × 500 × 118	682 × 582 × 205	2/0UF2021		70	
19	600 × 500 × 118	682 × 582 × 205	2/0UF2121		70	
14	900 × 250 × 118	982 × 332 × 205	1/2UF2021		67	
14	900 × 250 × 118	982 × 332 × 205	1/2UF2121		67	
28	900 × 500 × 118	982 × 582 × 205	2/2UF2021		99	
28	900 × 500 × 118	982 × 582 × 205	2/2UF2121		99	

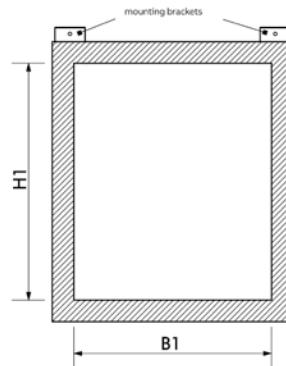
## Subdistribution boards

Sheath housing/cooling shutters  
Dimensions, weights, power loss

Front view



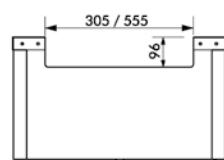
Internal view



Side view



Top view



**Material**  
+ Decor  
**A2** Class

**Fire**  
Resistance  
**30 Min.**

Permissible power dissipation (W) at 25 °C ambient temperature	Internal dimensions in mm H1 × W1 × D1	External dimensions in mm H2 × W2 × D2	Type code	Order code	Price 1 piece	Weight 1 piece kg
W 16	665 × 354 × 240	829 × 518 × 340	1/0MF300			85
18	815 × 354 × 240	979 × 518 × 340	1/1MF300			97
24	815 × 604 × 240	979 × 768 × 340	2/1MF300			124
23	1115 × 354 × 240	1279 × 518 × 340	1/3MF300			121

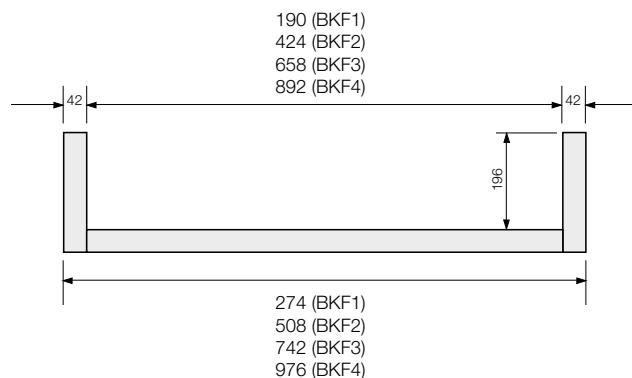
**Material**  
+ Decor  
**A2** Class

**Fire**  
Resistance  
**90 Min.**

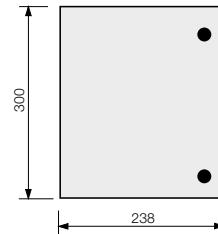
Permissible power dissipation (W) at 25 °C ambient temperature	Internal dimensions in mm H1 × W1 × D1	External dimensions in mm H2 × W2 × D2	Type code	Order code	Price 1 piece	Weight 1 piece kg
W 16	665 × 354 × 240	829 × 518 × 340	1/0MF301			89
18	815 × 354 × 240	979 × 518 × 340	1/1MF301			101
24	815 × 604 × 240	979 × 768 × 340	2/1MF301			127
23	1115 × 354 × 240	1279 × 518 × 340	1/3MF301			125

## Cooling shutters for cables

Top view



Side view

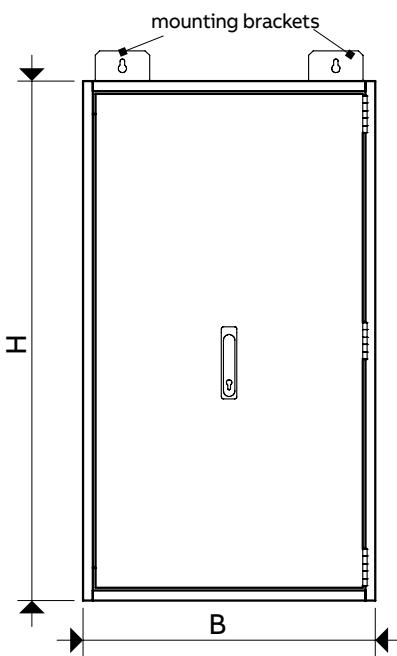


## Subdistribution boards

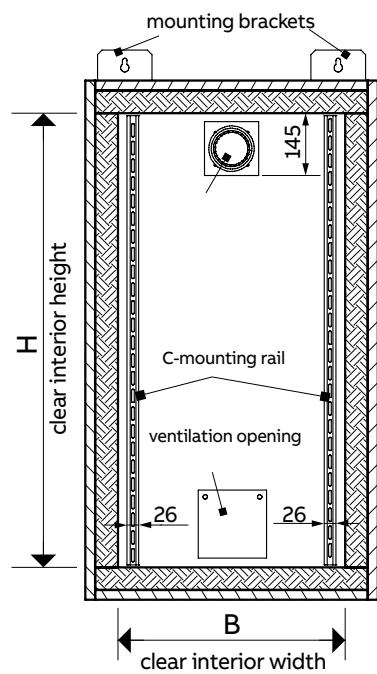
Surface-mount wall housing

Dimensions, weights, power loss

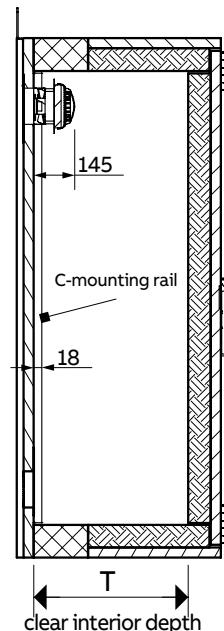
**Front view**



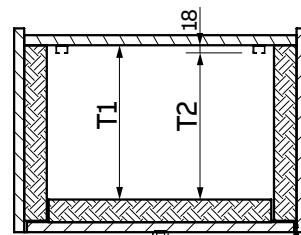
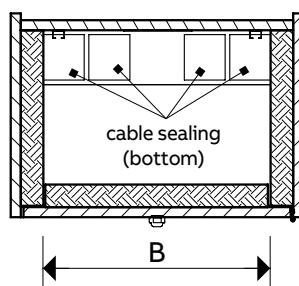
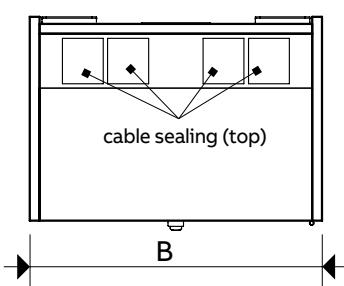
**Internal view**



**Side view**



**Top view**



**External depth of housing**

349 mm

**Internal depth of housing T1**

240 mm

**Usable internal depth T2**

222 mm

## Subdistribution boards

Surface-mount wall housing

Dimensions, weights, power loss

Power dissipation	Internal dimensions in mm H1 × W1 × D1	External dimensions in mm H2 × W2 × D2	Type code	Order code	Price 1 piece	Weight 1 piece kg
Pv max. (W)						
237	598 × 398 × 349	454 × 254 × 240	1/00AF302		51	
223	598 × 648 × 349	454 × 504 × 240	2/00AF302		71	
214	748 × 398 × 349	604 × 254 × 240	1/0AF302		62	
232	748 × 648 × 349	604 × 504 × 240	2/0AF302		85	
220	898 × 398 × 349	754 × 254 × 240	1/1AF302		73	
242	898 × 648 × 349	754 × 504 × 240	2/1AF302		99	
226	1048 × 398 × 349	904 × 254 × 240	1/2AF302		83	
251	1048 × 648 × 349	904 × 504 × 240	2/2AF302		114	
232	1198 × 398 × 349	1054 × 254 × 240	1/3AF302		94	
261	1198 × 648 × 349	1054 × 504 × 240	2/3AF302		128	
290	1198 × 898 × 349	1054 × 754 × 240	3/3AF302		163	
271	1348 × 648 × 349	1204 × 504 × 240	2/4AF302		143	
280	1498 × 648 × 349	1354 × 504 × 240	2/5AF302		157	

> Recommended approximate values for mounting and installation on a fire resistant wall. A derating of the electrical equipment must be considered.

Compliance with the limit overheating temperature in accordance with the valid DIN VDE 61439-1 must be observed.

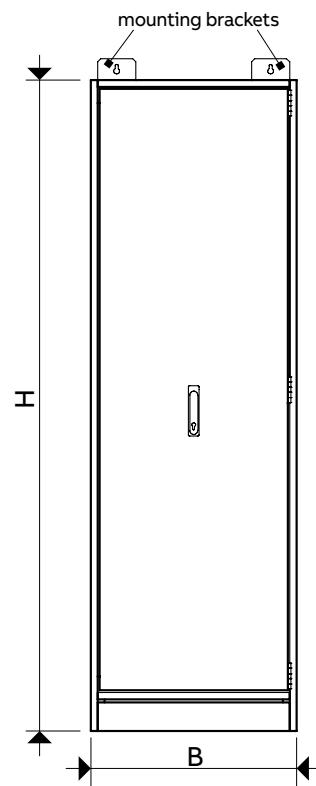
> Power loss in normal operation at  $\Delta T = 13 \text{ K}$  (inside 35 °C, outside 22 °C), with fan

## Subdistribution boards

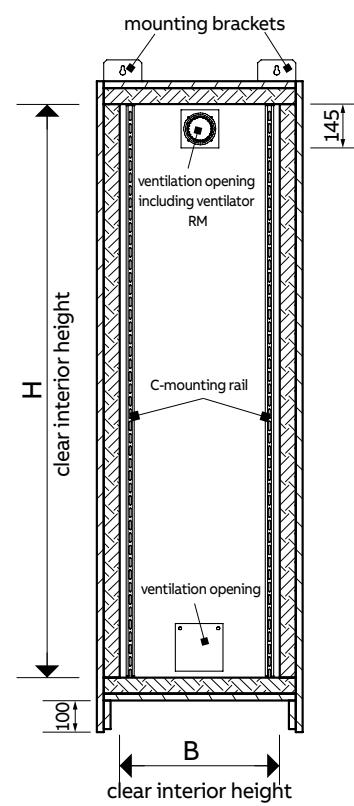
Standing housing

Dimensions, weights, power loss

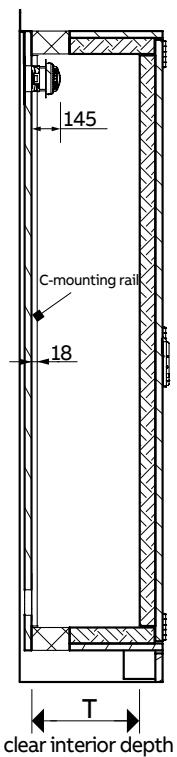
**Front view**



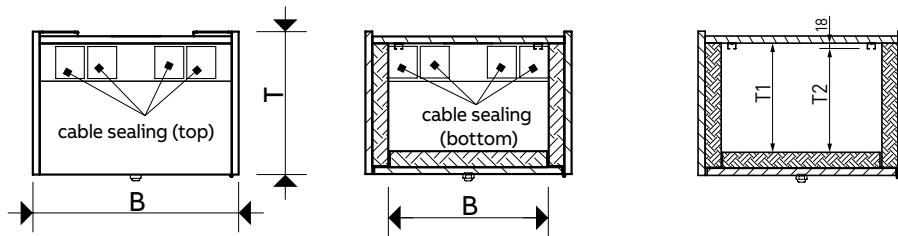
**Internal view**



**Side view**



**Top view**



External depth of housing	349 mm
Internal depth of housing T1	240 mm
Usable internal depth T2	222 mm

## Subdistribution boards

Surface-mount wall housing

Dimensions, weights, power loss

Power dissipation	Internal dimensions in mm H1 × W1 × D1	External dimensions in mm H2 × W2 × D2	Type code	Order code	Price 1 piece	Weight 1 piece kg
Pv max. (W)						
261	2048 × 398 × 349	1804 × 254 × 240	1/8SF302			152
309	2048 × 648 × 349	1804 × 504 × 240	2/8SF302			206
357	2048 × 898 × 349	1804 × 754 × 240	3/8SF302			259
267	2198 × 398 × 349	1954 × 254 × 240	1/9SF302			163
318	2198 × 648 × 349	1954 × 504 × 240	2/9SF302			220
370	2198 × 898 × 349	1954 × 754 × 240	3/9SF302			278

> Recommended approximate values for mounting and installation on a fire resistant wall. A derating of the electrical equipment must be considered.

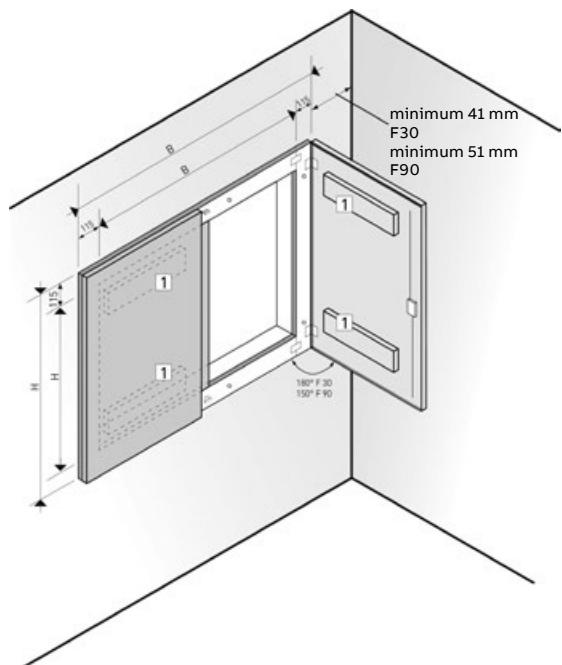
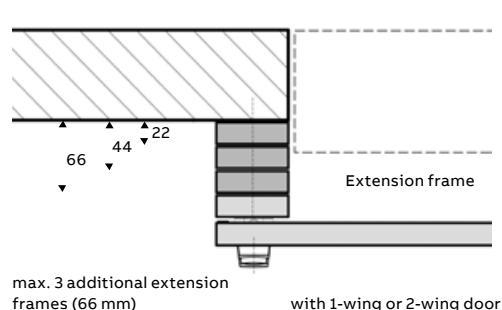
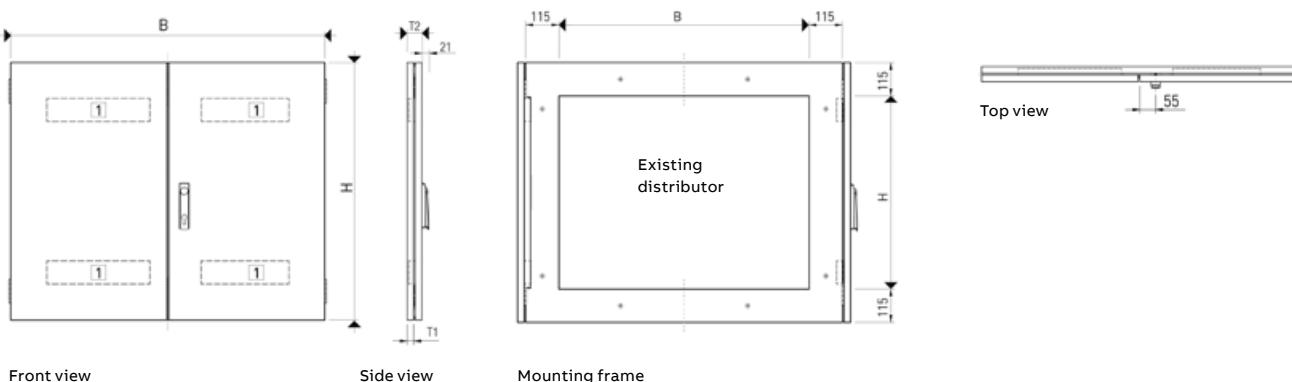
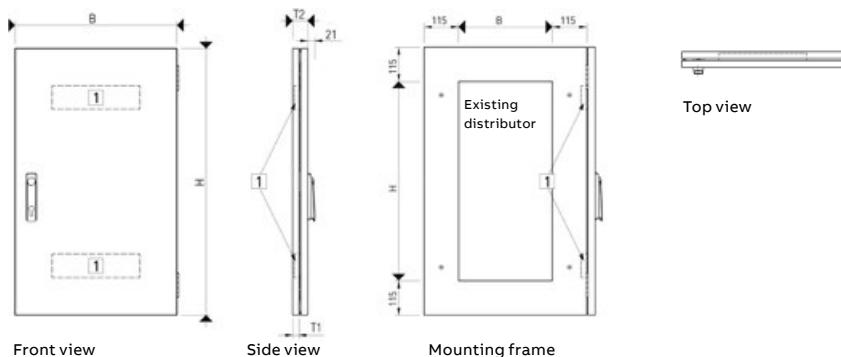
Compliance with the limit overheating temperature in accordance with the valid DIN VDE 61439-1 must be observed.

> Power loss in normal operation at  $\Delta T = 13 \text{ K}$  (inside 35 °C, outside 22 °C), with fan

## Subdistribution boards

Facing doors

Dimensions



Facing door with mounting frame  
Door swivels over the frame on the hinge side.  
Leave at least 41/51 mm distance from the wall.

[1] Bar above and below on the inside of the door, only for 30-minute design.

## Subdistribution boards

Facing doors

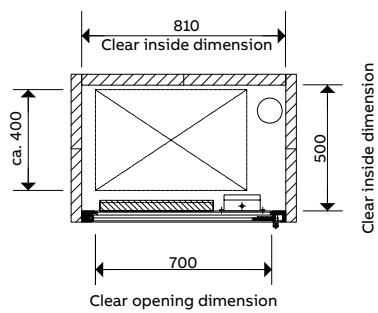
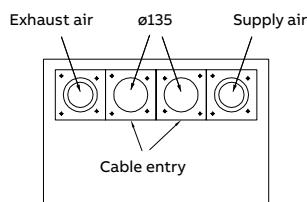
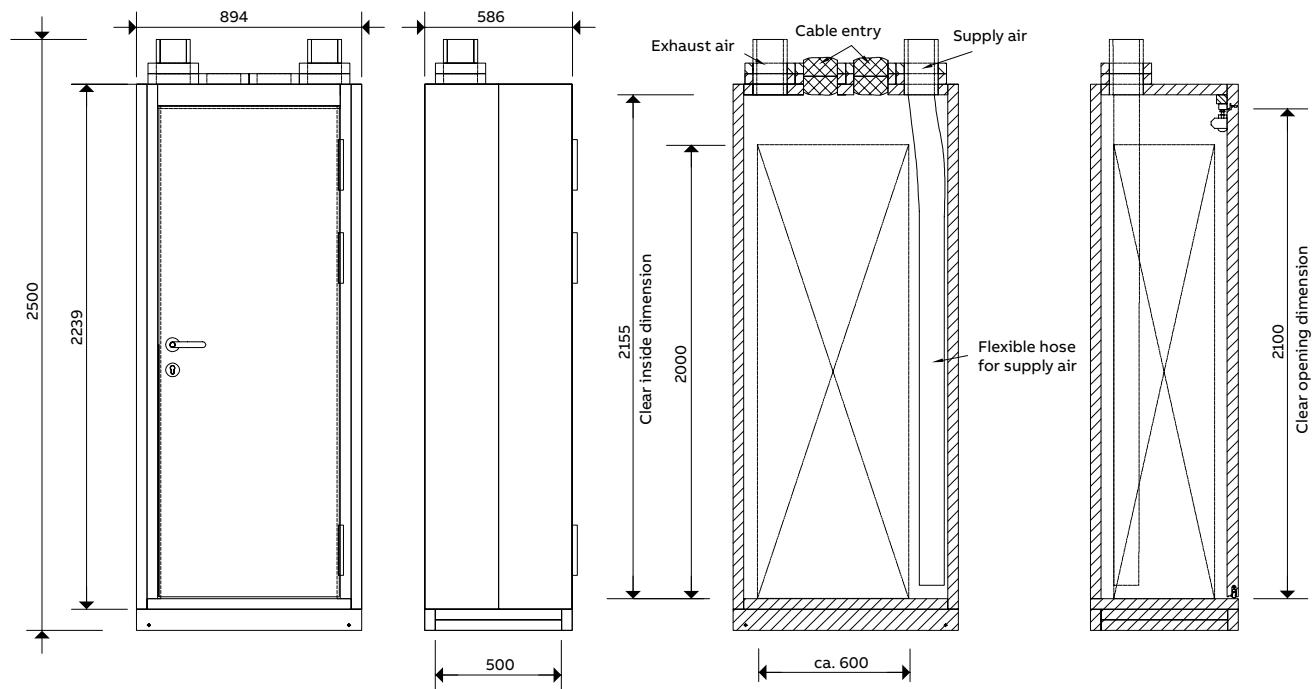
Dimensions

Type code	Internal dimensions in mm			External dimensions in mm		
	H1	B1	D1	H1	B1	D1
1/0VF10	665	345	0	895	575	51
2/0VF10	665	565	0	895	795	51
2/1VF10	815	565	0	1045	795	51
3/1VF10	815	815	0	1045	1045	51
2/2VF10	965	565	0	1195	795	51
3/2VF10	965	815	0	1195	1045	51
2/3VF10	1115	565	0	1345	795	51
3/3VF10	1115	815	0	1345	1045	51
2/4VF10	1265	565	0	1495	795	51
3/4VF10	1265	815	0	1495	1045	51
2/5VF10	1415	565	0	1645	795	51
3/5VF10	1415	815	0	1645	1045	51
2/8VF10	1865	565	0	2095	795	51
1/0VF11	665	345	22	895	545	71
2/0VF11	665	565	22	895	795	71
2/1VF11	815	565	22	1045	795	71
3/1VF11	815	815	22	1045	1045	71
2/2VF11	965	565	22	1195	795	71
3/2VF11	965	815	22	1195	1045	71
1/3VF11	1115	345	22	1345	575	71
2/3VF11	1115	565	22	1345	795	71
3/3VF11	1115	815	22	1345	1045	71
2/4VF11	1265	565	22	1495	795	71
3/4VF11	1265	815	22	1495	1045	71
2/8VF11	1865	565	22	2095	795	71
4/2VF20	965	1065	0	1195	1295	51
4/3VF20	1115	1065	0	1345	1295	51
4/4VF20	1265	1065	0	1495	1295	51
4/5VF20	1415	1065	0	1645	1295	51
4/8VF20	1865	1065	0	2095	1295	51
4/2VF21	965	1065	22	1195	1295	71
4/3VF21	1115	1065	22	1345	1295	71
4/4VF21	1265	1065	22	1495	1295	71
4/8VF21	1865	1065	22	2095	1295	71

## Subdistribution boards

Electric functional unit in compact design

Dimensions for 2-field width



### Power loss:

To calculate the allowable power dissipation for the low-voltage switchgear assemblies in the compact electric functional unit, assume an ambient temperature of 35 °C.

## Subdistribution boards

Electric functional unit in compact design

Dimensions for 3-field width

