

CONSUMER UNITS

CATALOGUE OF PLASTIC
AND METAL CONSUMER UNITS,
BUSBAR SYSTEMS AND TERMINALS



NOARK

CONSUMER UNITS

Consumer units are an essential part of any residential or industrial installation where safe and reliable operation is a must. That's why it is crucial to emphasize reliability and high-quality manufacturing processes to ensure product robustness, durability, and installation safety. In today's world, a wide range of installations exist to meet diverse market needs, offering smart solutions and adaptability to various conditions. Due to this variety, Noark offers an extensive portfolio of consumer unit series, including installation accessories, plastic and metal enclosures, and other types of consumer units. Each of these options supports both general and highly specific applications — from outdoor environments to the most demanding industrial conditions — while meeting all required installation standards.

Durability

Noark enclosures are made from high-quality materials to ensure long-lasting protection for the devices inside. Built for durability, these enclosures are designed to serve across generations. Certified to meet the highest standards, they guarantee safety and reliability.

Non-disturbing

Our enclosures are not just engineered to last — they're also designed to look great. Their sleek and discreet appearance allows them to blend into any environment without disrupting the overall look and feel of the space.

Matter of material

The material used determines the purpose of each enclosure. Plastic enclosures are typically suited for residential and general indoor use, while metal enclosures are ideal for industrial settings that demand higher mechanical strength and durability.

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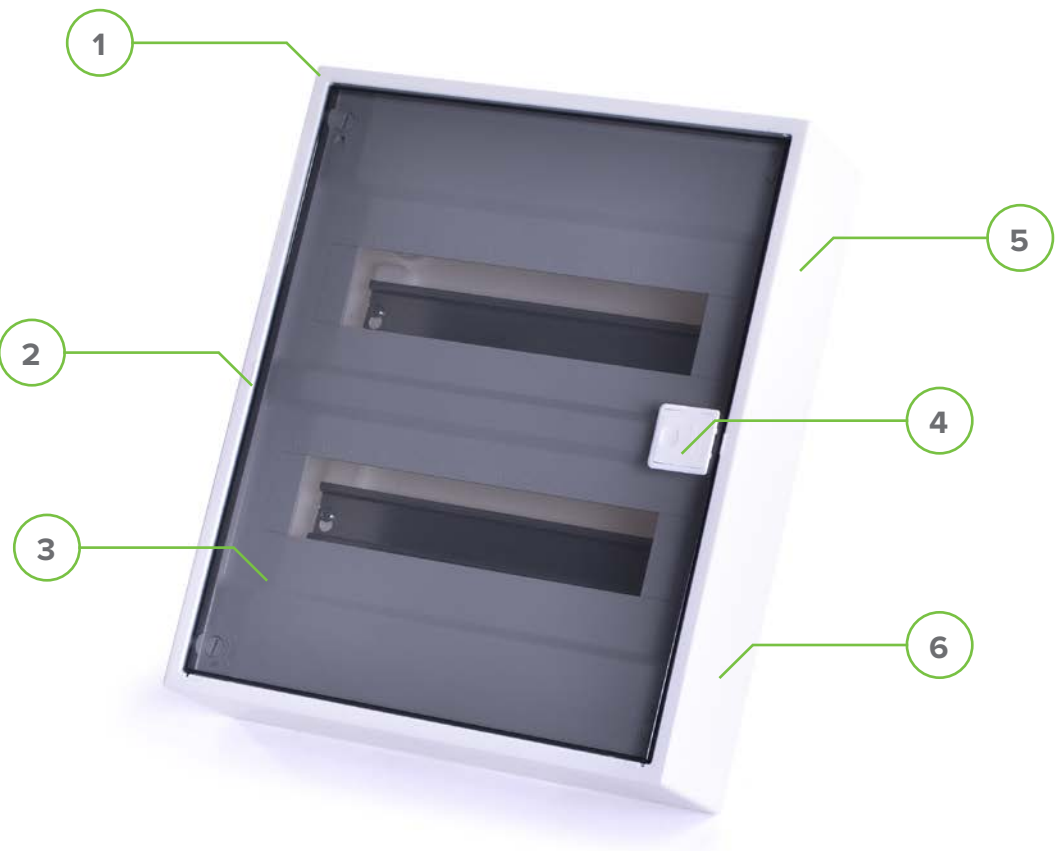
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PLASTIC CONSUMER UNITS



PLASTIC CONSUMER UNITS

Professional tips



- 1 5 years warranty
- 2 Surface and flush mounting version
- 3 Transparent and plain door
- 4 Wide range of accessories and spare parts
- 5 Special version for hollow walls
- 6 Design version

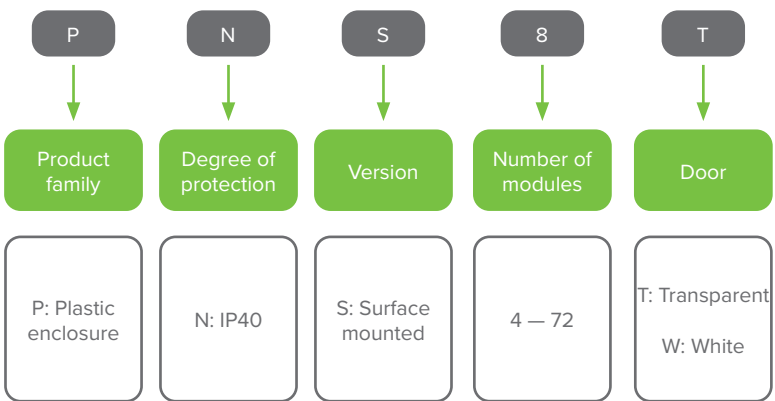
Surface-mounted IP40 Consumer Units **PNS**



- Surface-mounted consumer units PNS
- Degree of protection IP40
- 4 up to 72 modules
- 1 up to 4 rows
- Transparent or white door

Consumer units PNS are intended mainly for domestic applications. Their design is suitable for surface mounting. Scope of delivery consists of enclosure, door, device DIN rails, N + PE terminals, front cover with device cutout, cover for empty place and mounting material.

Type Key



Certification marks



Surface-mounted IP40 Consumer Units **PNS**

Consumer units **PNS** with transparent door

- Surface mounted version
- 4, 8, 12, 18 or 24 modules per row
- 1 up to 4 rows
- Scope of delivery: enclosure, door, device DIN rails, N + PE terminals, front cover with device cutout, cover for empty place, mounting material



N+PE terminals	Number of rows	Total modules	Article No.	Type	Packing
4+4	1	4	110815	PNS 4T	1
8+8	1	8	101497	PNS 8T	1
10+10	1	12	101498	PNS 12T	1
13+13	1	18	101499	PNS 18T	1
13+13	1	24	113298	PNS 1x24T	1
13+13	2	24	101500	PNS 24T	1
15+15	2	36	101501	PNS 2x18T	1
15+15	3	36	101502	PNS 36T	1
20+20	2	48	117813	PNS 2x24T	1
20+20	4	48	101503	PNS 48T	1
26+26	3	54	106196	PNS 3x18T	1
30+30	4	72	110816	PNS 4x18T	1

Consumer units **PNS** with white door

- Surface mounted version
- 4, 8, 12, 18 or 24 modules per row
- 1 up to 4 rows
- Scope of delivery: enclosure, door, device DIN rails, N + PE terminals, front cover with device cutout, cover for empty place, mounting material



N+PE terminals	Number of rows	Total modules	Article No.	Type	Packing
4+4	1	4	110817	PNS 4W	1
8+8	1	8	101504	PNS 8W	1
10+10	1	12	101505	PNS 12W	1
13+13	1	18	101506	PNS 18W	1
13+13	1	24	113299	PNS 1x24W	1
13+13	2	24	101507	PNS 24W	1
15+15	2	36	101508	PNS 2x18W	1
15+15	3	36	101509	PNS 36W	1
20+20	2	48	117814	PNS 2x24W	1
20+20	4	48	101510	PNS 48W	1
26+26	3	54	106197	PNS 3x18W	1
30+30	4	72	113272	PNS 4x18W	1

Surface-mounted IP40 Consumer Units **PNS**

Spare door, transparent

- Spare door for consumer unit
- Same version for PNS as well for PNF line of consumer units
- Packed separately



Version	For consumer units	Article No.	Type	Packing
Transparent	PNS 4T, PNF 4T	113281	DR PNS 4T	1
Transparent	PNS 8T, PNF 8T	101538	DR PNS 8T	1
Transparent	PNS 12T, PNF 12T	101539	DR PNS 12T	1
Transparent	PNS 18T, PNF 18T	101540	DR PNS 18T	1
Transparent	PNS 1x24T	113428	DR PNS 1x24T	1
Transparent	PNS 24T, PNF 24T	101541	DR PNS 24T	1
Transparent	PNS 2x18T, PNF 2x18T	101542	DR PNS 2x18T	1
Transparent	PNS 36T, PNF 36T	101543	DR PNS 36T	1
Transparent	PNS 2x24T	117815	DR PNS 2x24T	1
Transparent	PNS 48T	101544	DR PNS 48T	1
Transparent	PNS 3x18T, PNF 3x18T	106200	DR PNS 3x18T	1
Transparent	PNS 4x18T, PNF 4x18T	113427	DR PNS 4x18T	1

Spare door, white

- Spare door for consumer unit
- Same version for PNS as well for PNF line of consumer units
- Packed separately



Version	For consumer units	Article No.	Type	Packing
White	PNS 4W, PNF 4W	113282	DR PNS 4W	1
White	PNS 8W, PNF 8W	101545	DR PNS 8W	1
White	PNS 12W, PNF 12W	101546	DR PNS 12W	1
White	PNS 18W, PNF 18W	101547	DR PNS 18W	1
White	PNS 1x24W	113429	DR PNS 1x24W	1
White	PNS 24W, PNF 24W	101548	DR PNS 24W	1
White	PNS 2x18W, PNF 2x18W	101549	DR PNS 2x18W	1
White	PNS 36W, PNF 36W	101550	DR PNS 36W	1
White	PNS 2x24W	117816	DR PNS 2x24W	1
White	PNS 48W	101551	DR PNS 48W	1
White	PNS 3x18W, PNF 3x18W	106201	DR PNS 3x18W	1
White	PNS 4x18W, PNF 4x18W	113288	DR PNS 4x18W	1

Lock with key

- Lock with key
- For subsequent mounting onto enclosure door
- Metal version of lock



Version of lock	For consumer units	Article No.	Type	Packing
Metal	PNS, PNF, PNF-HW	101573	LK PN M	1

Surface-mounted IP40 Consumer Units **PNS**

Surface-mounted IP40 Consumer Units **PNS-SD**

Additional insulated terminal

- Additional insulated terminal with holder
- Grey colour
- 2 x 10 or 2 x 15 terminals or 2 x 16 for screwless version

Description	Number of N + PE terminals	Article No.	Type	Packing
Insulated terminal	10 + 10	109053	TH CUB D	1
Insulated terminal	15 + 15	101577	TH CUB P	1
Screwless terminal	16 + 16	116937	TH CUB S	1

Holder for double terminal

- Adding possibility to connect two insulate terminals together
- 1 set = 2 pieces (one per side)

Description	Article No.	Type	Packing
Holder for double terminal	110820	DTH	1 set

Cover for empty place

- Cover for unused 45 mm device cutout
- White, grey or black colour
- Total width 224 mm, can be shortened
- Segmented as 1x 15 mm, 22 x 1/2 module width, 1x 15 mm

Colour	Width	Article No.	Type	Packing
White	224 mm	101574	B CC45	1/500
Grey	224 mm	113277	B CC45 G	1/500
Black	224 mm	110192	B CC45 B	1/500

Spare mounting material

- For IP40 surface mounted consumer units
- Package contains: screws, wall plugs, stickers, empty place cover

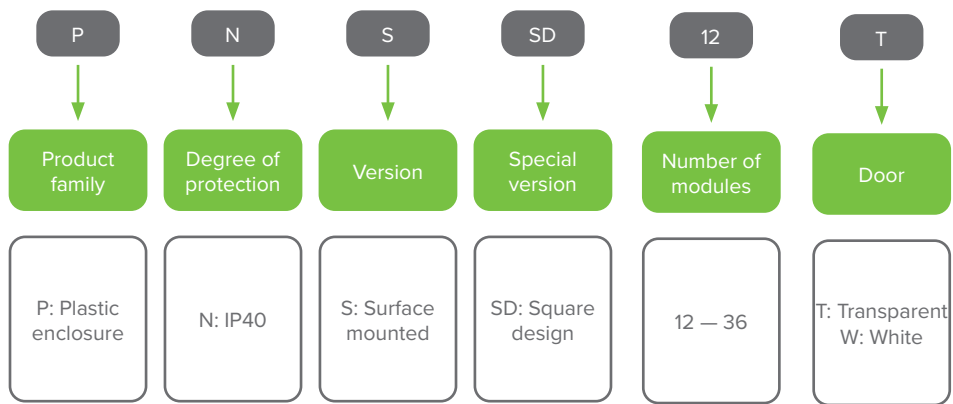
Description	Article No.	Type	Packing
Spare mounting material, IP40	106184	SMM IP40S	1 pack



- Surface-mounted consumer units PNS-SD
- Degree of protection IP40
- 12(+2) up to 36(+6) modules
- 1 up to 3 rows
- Transparent or white door
- White color RAL 9003

Consumer units PNS-SD are intended mainly for domestic applications. Theirs design is suitable for surface mounting. Scope of delivery consists of enclosure, door, device DIN rails, N + PE terminals, front cover with device cutout, cover for empty place and mounting material.

Type Key



Certification marks



Surface-mounted IP40 Consumer Units **PNS-SD**

Consumer units PNS-SD with transparent door

- Surface mounted version
- 12(+2) modules per row
- 1 up to 3 rows
- Scope of delivery: enclosure, door, device DIN rails, N + PE terminals, front cover with device cutout, cover for empty place, mounting material



N+PE terminals	Number of rows	Total modules	Article No.	Type	Packing
10+10	1	12(+2)	107274	PNS-SD 12T	1
13+13	2	24(+4)	107275	PNS-SD 24T	1
15+15	3	36(+6)	107276	PNS-SD 36T	1

Spare door, transparent

- Spare door for consumer unit
- Packed separately



Version	For consumer units	Article No.	Type	Packing
Transparent	PNS-SD 12T	107277	DR PNS-SD 12T	1
Transparent	PNS-SD 24T	107278	DR PNS-SD 24T	1
Transparent	PNS-SD 36T	107378	DR PNS-SD 36T	1

Consumer units PNS-SD with white door

- Surface mounted version
- 12(+2) modules per row
- 1 up to 3 rows
- Scope of delivery: enclosure, door, device DIN rails, N + PE terminals, front cover with device cutout, cover for empty place, mounting material



N+PE terminals	Number of rows	Total modules	Article No.	Type	Packing
10+10	1	12(+2)	113280	PNS-SD 12W	1
13+13	2	24(+4)	113283	PNS-SD 24W	1
15+15	3	36(+6)	113284	PNS-SD 36W	1

Spare door, white

- Spare door for consumer unit
- Packed separately



Version	For consumer units	Article No.	Type	Packing
White	PNS-SD 12W	113285	DR PNS-SD 12W	1
White	PNS-SD 24W	113286	DR PNS-SD 24W	1
White	PNS-SD 36W	113287	DR PNS-SD 36W	1

Surface-mounted IP40 Consumer Units **PNS-SD**

Lock with key

- Lock with key
- For subsequent mounting onto enclosure door



Version of lock	For consumer units	Article No.	Type	Packing
Metal	PMF, PNS-SD	105494	LK PM M	1

Spare plastic lock

- For PMF and PNS-SD line of consumer units
- Spare part, lock is in the standard scope of delivery



Description	Article No.	Type	Packing
Spare lock, PMF, PNS-SD	107121	SL PMF	1

Additional insulated terminals

- Additional insulated terminal with holder
- Grey colour
- 2 x 10 or 2 x 15 terminals or 2x 16 for screwless version



Description	Number of N + PE terminals	Article No.	Type	Packing
Insulated terminal	10 + 10	109053	TH CUB D	1
Insulated terminal	15 + 15	101577	TH CUB P	1
Screwless terminal	16 + 16	116937	TH CUB S	1

Holder for double terminal

- Adding possibility to connect two insulate terminals together
- 1 set = 2 pieces (one per side)



Description	Article No.	Type	Packing
Holder for double terminal	110820	DTH	1 set

Covers for empty places

- Cover for unused 45 mm device cutout
- White, grey or black colour
- Total width 224 mm, can be shortened
- Segmented as 1x 15 mm, 22 x 1/2 module width, 1x 15 mm



Colour	Width	Article No.	Type	Packing
White	224 mm	101574	B CC45	1/500
Grey	224 mm	113277	B CC45 G	1/500
Black	224 mm	110192	B CC45 B	1/500

NOTES



Surface-mounted IP40
Consumer Units **PNS2 E**

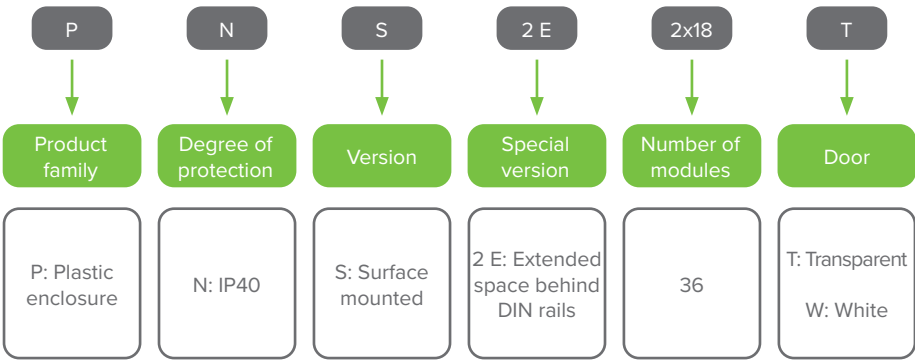


- Surface-mounted consumer units PNS2 E
- Degree of protection IP40
- Extra space behind DIN rails
- 36 modules
- 2 rows
- Transparent or white door

Surface-mounted IP40
Consumer Units **PNS2 E**

Consumer units PNS2 E are intended mainly for domestic applications. Their design is suitable for surface mounting. Special version with additional space behind DIN rails. Scope of delivery consists of enclosure, door, device DIN rails, N + PE terminals, front cover with device cutout, cover for empty place and mounting material.

Type Key



Certification marks



Consumer unit PNS2 E with transparent door

- Surface mounted version
- 18 modules per row
- 2 rows
- Scope of delivery: enclosure, door, device DIN rails, N + PE terminals, front cover with device cutout, cover for empty place, mounting material



N+PE terminals	Number of rows	Total modules	Article No.	Type	Packing
16+16	2	36	113289	PNS2 E 2x18T	1

Consumer unit PNS2 E with white door

- Surface mounted version
- 18 modules per row
- 2 rows
- Scope of delivery: enclosure, door, device DIN rails, N + PE terminals, front cover with device cutout, cover for empty place, mounting material



N+PE terminals	Number of rows	Total modules	Article No.	Type	Packing
16+16	2	36	113430	PNS2 E 2x18W	1

Lock with keys

- Lock with keys
- For subsequent mounting onto enclosure door
- Metal version of lock



Version of lock	For consumer units	Article No.	Type	Packing
Metal	PNS2 E	113431	LK PNS2	1

Additional insulated terminal

- Additional insulated terminal with holder
- Black colour
- 2 x 16 terminals



Description	Number of N + PE terminals	Article No.	Type	Packing
Insulated terminal	16 + 16	113432	TH PNS2	1

NOTES

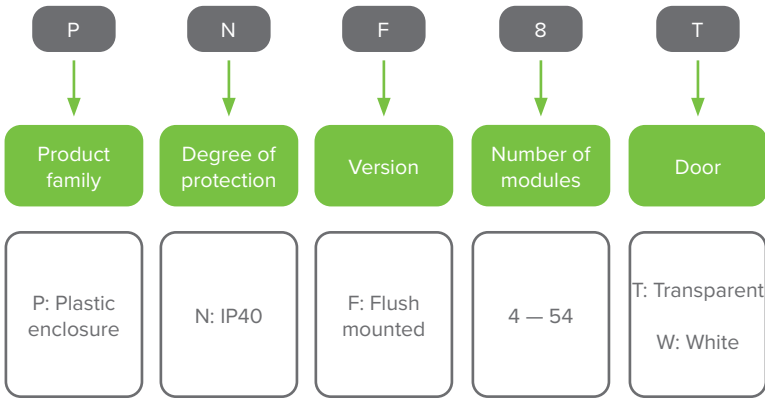
Flush-mounted IP40
Consumer Units **PNF**



- Flush-mounted consumer units PNF
- Degree of protection IP40
- 4 up to 54 modules
- 1 up to 4 rows
- Transparent or white door

Consumer units PNF are intended mainly for domestic applications. Their design is suitable for flush mounting. Scope of delivery consists of enclosure, door, device DIN rails, N + PE terminals, front cover with device cutout, cover for empty place, mounting material.

Type Key



Certification marks



Flush-mounted IP40 Consumer Units PNF

Consumer units PNF with transparent door

- Flush mounted version
- 4, 8, 12, 18 or 24 modules per row
- 1 up to 4 rows
- Scope of delivery: enclosure, door, device DIN rails, N + PE terminals, front cover with device cutout, cover for empty place, mounting material



N+PE terminals	Number of rows	Total modules	Article No.	Type	Packing
4+4	1	4	110818	PNF 4T	1
8+8	1	8	101511	PNF 8T	1
10+10	1	12	101512	PNF 12T	1
13+13	1	18	101513	PNF 18T	1
13+13	1	24	113773	PNF 1x24T	1
13+13	2	24	101514	PNF 24T	1
15+15	2	36	101515	PNF 2x18T	1
15+15	3	36	101516	PNF 36T	1
20+20	4	48	113772	PNF 48T	1
26+26	3	54	106198	PNF 3x18T	1

Consumer units PNF with white door

- Flush mounted version
- 4, 8, 12, 18 or 24 modules per row
- 1 up to 4 rows
- Scope of delivery: enclosure, door, device DIN rails, N + PE terminals, front cover with device cutout, cover for empty place, mounting material



N+PE terminals	Number of rows	Total modules	Article No.	Type	Packing
4+4	1	4	110819	PNF 4W	1
8+8	1	8	101517	PNF 8W	1
10+10	1	12	101518	PNF 12W	1
13+13	1	18	101519	PNF 18W	1
13+13	1	24	113775	PNF 1x24W	1
13+13	2	24	101520	PNF 24W	1
15+15	2	36	101521	PNF 2x18W	1
15+15	3	36	101522	PNF 36W	1
20+20	4	48	113774	PNF 48W	1
26+26	3	54	106199	PNF 3x18W	1

Flush-mounted IP40 Consumer Units PNF

Spare door, transparent

- Spare door for consumer unit
- Same version for PNS, PNF as well for -HW line of consumer units
- Packed separately



Version	For consumer units	Article No.	Type	Packing
Transparent	PNS 4T, PNF 4T	113281	DR PNS 4T	1
Transparent	PNS 8T, PNF 8T	101538	DR PNS 8T	1
Transparent	PNS 12T, PNF 12T	101539	DR PNS 12T	1
Transparent	PNS 18T, PNF 18T	101540	DR PNS 18T	1
Transparent	PNS 1x24T, PNF 1x24T	113428	DR PNS 1x24T	1
Transparent	PNS 24T, PNF 24T	101541	DR PNS 24T	1
Transparent	PNS 2x18T, PNF 2x18T	101542	DR PNS 2x18T	1
Transparent	PNS 36T, PNF 36T	101543	DR PNS 36T	1
Transparent	PNS 48T, PNF 48T	101544	DR PNS 48T	1
Transparent	PNS 3x18T, PNF 3x18T	106200	DR PNS 3x18T	1

Spare door, white

- Spare door for consumer unit
- Same version for PNS, PNF as well for -HW line of consumer units
- Packed separately



Version	For consumer units	Article No.	Type	Packing
White	PNS 4W, PNF 4W	113282	DR PNS 4W	1
White	PNS 8W, PNF 8W	101545	DR PNS 8W	1
White	PNS 12W, PNF 12W	101546	DR PNS 12W	1
White	PNS 18W, PNF 18W	101547	DR PNS 18W	1
White	PNS 1x24W, PNF 1x24W	113429	DR PNS 1x24W	1
White	PNS 24W, PNF 24W	101548	DR PNS 24W	1
White	PNS 2x18W, PNF 2x18W	101549	DR PNS 2x18W	1
White	PNS 36W, PNF 36W	101550	DR PNS 36W	1
White	PNS 48W, PNF 48W	101551	DR PNS 48W	1
White	PNS 3x18W, PNF 3x18W	106201	DR PNS 3x18W	1

Lock with key

- Lock with key
- For subsequent mounting onto enclosure door
- Metal version of lock



Version of lock	For consumer units	Article No.	Type	Packing
Metal	PNS, PNF, PNF-HW	101573	LK PN M	1

Holder for double terminal

- Adding possibility to connect two insulate terminals together
- 1 set = 2 pieces (one per side)



Description	Article No.	Type	Packing
Holder for double terminal	110820	DTH	1 set

Flush-mounted IP40 Consumer Units **PNF**

Additional insulated terminals

- Additional insulated terminal with holder
- Grey colour
- 2 x 10 or 2 x 15 terminals or 2x 16 for screwless version



Description	Number of N + PE terminals	Article No.	Type	Packing
Insulated terminal	10 + 10	109053	TH CUB D	1
Insulated terminal	15 + 15	101577	TH CUB P	1
Screwless terminal	16 + 16	116937	TH CUB S	1

Covers for empty places

- Cover for unused 45 mm device cutout
- White, grey or black colour
- Total width 224 mm, can be shortened
- Segmented as 1x 15 mm, 22 x 1/2 module width, 1x 15 mm



Colour	Width	Article No.	Type	Packing
White	224 mm	101574	B CC45	1/500
Grey	224 mm	113277	B CC45 G	1/500
Black	224 mm	110192	B CC45 B	1/500

Spare mounting material

- For IP40 flush mounted consumer units
- Package contains: wall holders, stickers, empty place cover



Description	Article No.	Type	Packing
Spare mounting material, IP40	106183	SMM IP40F	1 pack

Mounting frame

- DIN rails connected to mounting frame for easier manipulation and installation



Description	Article No.	Type	Packing
Mounting frame for PNF 24 (2x12MU)	106158	MF PNF 24	1
Mounting frame for PNF 36 (3x12MU)	106159	MF PNF 36	1
Mounting frame for PNF 36 (2x18MU)	106160	MF PNF 2x18	1
Mounting frame for PNF 3x18	107029	MF PNF 3x18	1

Flush-mounted IP40 Consumer Units **PNF-HW**

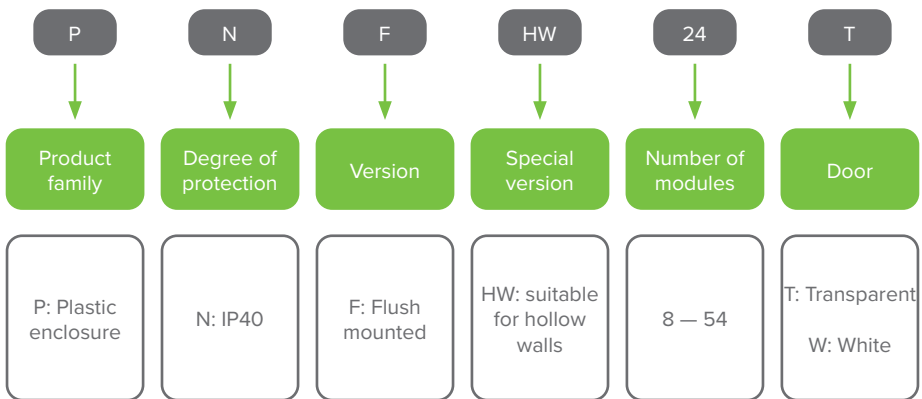


- Flush-mounted consumer units PNF-HW suitable for hollow-walls mounting
- Bottom part moulded from high-resistance plastic to fulfill requirements for hollow wall installation by means of glow wire test at 850 °C
- Degree of protection IP40
- 8 up to 54 modules
- 1 up to 3 rows
- Transparent or white door
- Special brackets for easy mounting into hollow walls

Consumer units PNF-HW are intended mainly for domestic applications. Their design is suitable for flush mounting. Dual fixing system allows using also for hollow walls. Tested with glow wire test at 850°C.

Scope of delivery consists of enclosure, door, device DIN rails, N + PE terminals, front cover with device cutout, cover for empty place and mounting material.

Type Key



Certification marks



Flush-mounted IP40 Consumer Units **PNF-HW**

Consumer units PNF-HW for hollow walls with transparent door

- Flush mounted version, suitable for hollow walls
- Glow wire test at 850°C
- 8, 12 or 18 modules per row
- 1 up to 3 rows
- Scope of delivery: enclosure, door, device DIN rails, N + PE terminals, front cover with device cutout, cover for empty place, mounting material



N+PE terminals	Number of rows	Total modules	Article No.	Type	Packing
8+8	1	8	106165	PNF-HW 8T	1
10+10	1	12	106166	PNF-HW 12T	1
13+13	1	18	106167	PNF-HW 18T	1
13+13	2	24	106168	PNF-HW 24T	1
15+15	2	36	106169	PNF-HW 2x18T	1
15+15	3	36	106170	PNF-HW 36T	1
26+26	3	54	106202	PNF-HW 3x18T	1

Consumer units PNF-HW for hollow walls with white door

- Flush mounted version, suitable for hollow walls
- Glow wire test at 850°C
- 8, 12 or 18 modules per row
- 1 up to 3 rows
- Scope of delivery: enclosure, door, device DIN rails, N + PE terminals, front cover with device cutout, cover for empty place, mounting material



N+PE terminals	Number of rows	Total modules	Article No.	Type	Packing
8+8	1	8	106171	PNF-HW 8W	1
10+10	1	12	106172	PNF-HW 12W	1
13+13	1	18	106173	PNF-HW 18W	1
13+13	2	24	106174	PNF-HW 24W	1
15+15	2	36	106175	PNF-HW 2x18W	1
15+15	3	36	106176	PNF-HW 36W	1
26+26	3	54	106203	PNF-HW 3x18W	1

Flush-mounted IP40 Consumer Units **PNF-HW**

Spare door, transparent

- Spare door for consumer unit
- Same version for PNS-MM as well for PNS and PNF line of consumer units
- Packed separately



Version	For consumer units	Article No.	Type	Packing
Transparent	PNF-HW 8T	101538	DR PNS 8T	1
Transparent	PNF-HW 12T	101539	DR PNS 12T	1
Transparent	PNF-HW 18T	101540	DR PNS 18T	1
Transparent	PNF-HW 24T	101541	DR PNS 24T	1
Transparent	PNF-HW 2x18T	101542	DR PNS 2x18T	1
Transparent	PNF-HW 36T	101543	DR PNS 36T	1
Transparent	PNF-HW 3x18T	106200	DR PNS 3x18T	1

Spare door, white

- Spare door for consumer unit
- Same version for PNF-MM as well for PNS and PNF line of consumer units
- Packed separately



Version	For consumer units	Article No.	Type	Packing
White	PNF-HW 8W	101545	DR PNS 8W	1
White	PNF-HW 12W	101546	DR PNS 12W	1
White	PNF-HW 18W	101547	DR PNS 18W	1
White	PNF-HW 24W	101548	DR PNS 24W	1
White	PNF-HW 2x18W	101549	DR PNS 2x18W	1
White	PNF-HW 36W	101550	DR PNS 36W	1
White	PNF-HW 3x18W	106201	DR PNS 3x18W	1

Lock with key

- Lock with key
- For subsequent mounting onto enclosure door
- Metal version of lock



Version of lock	For consumer units	Article No.	Type	Packing
Metal	PNS, PNF, PNF-HW	101573	LK PN M	1

Holder for double terminal

- Adding possibility to connect two insulate terminals together
- 1 set = 2 pieces (one per side)



Description	Article No.	Type	Packing
Holder for double terminal	110820	DTH	1 set

Surface-mounted IP40 Consumer Units **PNF-HW**

Additional insulated terminals

- Additional insulated terminal with holder
- Grey colour
- 2 x 10 or 2 x 15 terminals or 2x 16 for screwless version

Description	Number of N + PE terminals	Article No.	Type	Packing
 Insulated terminal	10 + 10	109053	TH CUB D	1
Insulated terminal	15 + 15	101577	TH CUB P	1
Screwless terminal	16 + 16	116937	TH CUB S	1

Covers for empty places

- Cover for unused 45 mm device cutout
- White, grey or black colour
- Total width 224 mm, can be shortened
- Segmented as 1x 15 mm, 22 x 1/2 module width, 1x 15 mm

Colour	Width	Article No.	Type	Packing
 White	224 mm	101574	B CC45	1/500
Grey	224 mm	113277	B CC45 G	1/500
Black	224 mm	110192	B CC45 B	1/500

Spare mounting material

- For IP40 flush mounted consumer units
- Package contains: wall holders, stickers, empty place cover

Description	Article No.	Type	Packing
 Spare mounting material PNF-HW, IP40	106163	SHW PNF	1 pack

Mounting frame

- DIN rails connected to mounting frame for easier manipulation and installation

Description	Article No.	Type	Packing
 Mounting frame for PNF 24 (2x12MU)	106158	MF PNF 24	1
Mounting frame for PNF 36 (3x12MU)	106159	MF PNF 36	1
Mounting frame for PNF 36 (2x18MU)	106160	MF PNF 2x18	1
Mounting frame for PNF 3x18	107029	MF PNF 3x18	1

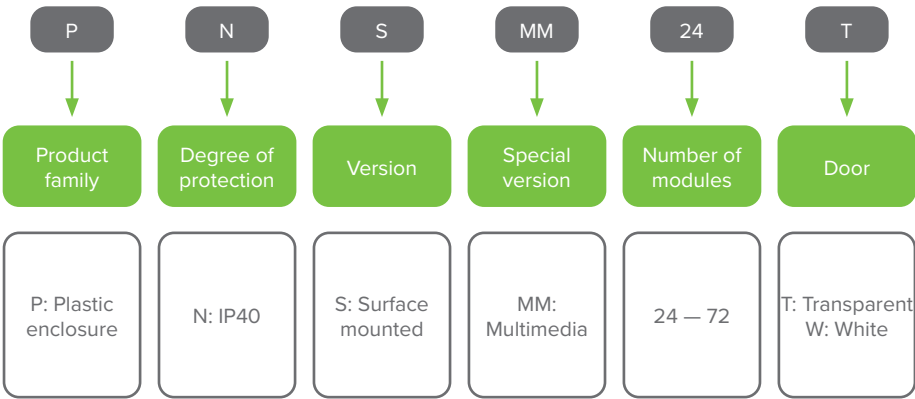
Surface-mounted IP40 Consumer Units **PNS-MM**



- Surface-mounted consumer units PNS-MM
- Degree of protection IP40
- 24 up to 72 modules
- 2 up to 4 rows
- Modules and rows for reference only - replaced with a mounting plate
- Transparent or white door
- Suitable for routers and modems

Consumer units PNS-MM are intended mainly for domestic applications. Their design is suitable for surface mounting. Suitable for routers and modems. Tested with glow wire test at 850°C. Scope of delivery consists of enclosure, front cover, door, mounting plate and mounting material.

Type Key



Certification marks



Consumer units PNS-MM with transparent door

- Surface mounted version
- Modules and rows for reference only - replaced with a mounting plate
- Scope of delivery: enclosure, front cover, door, mounting plate, mounting material

Door version	Number of rows	Total modules	Article No.	Type	Packing
Transparent	2	24	113407	PNS-MM 24T	1
Transparent	3	36	113408	PNS-MM 36T	1
Transparent	4	48	113409	PNS-MM 48T	1
Transparent	2	36	113410	PNS-MM 2x18T	1
Transparent	3	54	113411	PNS-MM 3x18T	1
Transparent	4	72	113412	PNS-MM 4x18T	1

Consumer units PNS-MM with white door

- Surface mounted version
- Modules and rows for reference only - replaced with a mounting plate
- Scope of delivery: enclosure, front cover, door, mounting plate, mounting material

Door version	Number of rows	Total modules	Article No.	Type	Packing
White	2	24	113413	PNS-MM 24W	1
White	3	36	113414	PNS-MM 36W	1
White	4	48	113415	PNS-MM 48W	1
White	2	36	113416	PNS-MM 2x18W	1
White	3	54	113417	PNS-MM 3x18W	1
White	4	72	113418	PNS-MM 4x18W	1

Spare door, transparent

- Spare door for consumer unit
- Same version for PNS-MM as well for PNS and PNF line of consumer units
- Packed separately

Version	For consumer units	Article No.	Type	Packing
Transparent	PNS-MM 24T	101541	DR PNS 24T	1
Transparent	PNS-MM 36T	101543	DR PNS 36T	1
Transparent	PNS-MM 48T	101544	DR PNS 48T	1
Transparent	PNS-MM 2x18T	101542	DR PNS 2x18T	1
Transparent	PNS-MM 3x18T	106200	DR PNS 3x18T	1
Transparent	PNS-MM 4x18T	113427	DR PNS 4x18T	1

Spare door, white

- Spare door for consumer unit
- Same version for PNS-MM as well for PNS and PNF line of consumer units
- Packed separately

Version	For consumer units	Article No.	Type	Packing
White	PNS-MM 24W	101548	DR PNS 24W	1
White	PNS-MM 36W	101550	DR PNS 36W	1
White	PNS-MM 48W	101551	DR PNS 48W	1
White	PNS-MM 2x18W	101549	DR PNS 2x18W	1
White	PNS-MM 3x18W	106201	DR PNS 3x18W	1
White	PNS-MM 4x18W	113288	DR PNS 4x18W	1

Lock with key

- Lock with key
- For subsequent mounting onto enclosure door
- Metal version of lock

Version of lock	For consumer units	Article No.	Type	Packing
Metal	PNS-MM, PNF- HW, PNF, PNF-MM, PNS	101573	LK PN M	1

Surface-mounted IP40 Consumer Units **PNS-MM**

Network devices holder

- Multi-functional holder for routers and switches up to 5 cm width
- Material: metal or plastic



Material	Article No.	Type	Packing
Metal	109047	RH PMF-MM	1
Plastic	116935	RH PMF-MM P	1

Additional insulated terminals

- Additional insulated terminal with holder
- Grey colour
- 2 x 10 or 2 x 15 terminals or 2 x 16 for screwless version



Description	Number of N + PE terminals	Article No.	Type	Packing
Insulated terminal	10 + 10	109053	TH CUB D	1
Insulated terminal	15 + 15	101577	TH CUB P	1
Screwless terminal	16 + 16	116937	TH CUB S	1

Holder for double terminal

- Adding possibility to connect two insulate terminals together
- 1 set = 2 pieces (one per side)



Description	Article No.	Type	Packing
Holder for double terminal	110820	DTH	1 set

Spare mounting material

- For IP40 surface mounted consumer units
- Package contains: screws, wall plugs, stickers, empty place cover



Description	Article No.	Type	Packing
Spare mounting material, IP40	106184	SMM IP40S	1 pack

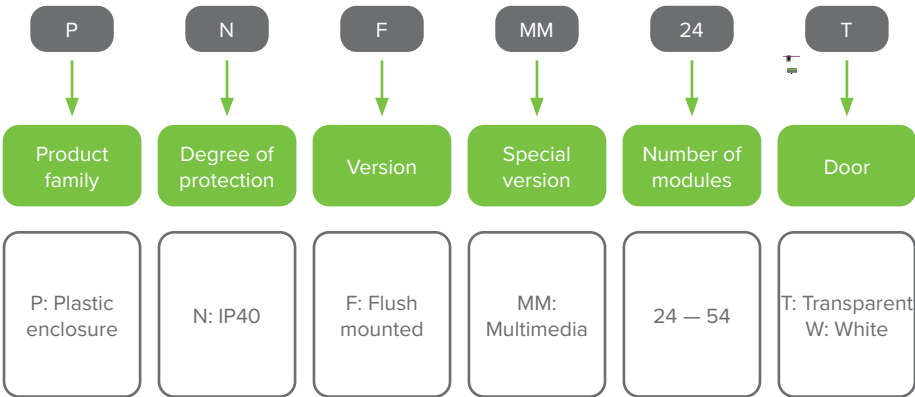
Flush-mounted IP40 Consumer Units **PNF-MM**



- Flush-mounted consumer units PNF-MM
- Degree of protection IP40
- 24 up to 54 modules
- 2 to 4 rows
- Modules and rows for reference only - replaced with a mounting plate
- Transparent or white door
- Suitable for routers and modems

Consumer units PNF-MM are intended mainly for domestic applications. Their design is suitable for flush mounting. Suitable for routers and modems. Scope of delivery consists of enclosure, front cover, door, mounting plate, mounting material.

Type Key



Certification marks



Flush-mounted IP40 Consumer Units **PNF-MM**

Consumer units PNF-MM with transparent door

- Flush mounted version
- Modules and rows for reference only - replaced with a mounting plate
- Scope of delivery: enclosure, front cover, door, mounting plate, mounting material



Door version	Number of rows	Total modules	Article No.	Type	Packing
Transparent	2	24	113419	PNF-MM 24T	1
Transparent	3	36	113420	PNF-MM 36T	1
Transparent	4	48	113776	PNF-MM 48T	1
Transparent	2	36	113421	PNF-MM 2x18T	1
Transparent	3	54	113422	PNF-MM 3x18T	1

Consumer units PNF-MM with white door

- Flush mounted version
- Modules and rows for reference only - replaced with a mounting plate
- Scope of delivery: enclosure, front cover, door, mounting plate, mounting material



Door version	Number of rows	Total modules	Article No.	Type	Packing
White	2	24	113423	PNF-MM 24W	1
White	3	36	113424	PNF-MM 36W	1
White	4	48	113777	PNF-MM 48W	1
White	2	36	113425	PNF-MM 2x18W	1
White	3	54	113426	PNF-MM 3x18W	1

Flush-mounted IP40 Consumer Units **PNF-MM**

Spare door, transparent

- Spare door for consumer unit
- Same version for PNF-MM as well for PNS and PNF line of consumer units
- Packed separately



Version	For consumer units	Article No.	Type	Packing
Transparent	PNF-MM 24T	101541	DR PNS 24T	1
Transparent	PNF-MM 36T	101543	DR PNS 36T	1
Transparent	PNF-MM 48T	101544	DR PNS 48T	1
Transparent	PNF-MM 2x18T	101542	DR PNS 2x18T	1
Transparent	PNF-MM 3x18T	106200	DR PNS 3x18T	1

Spare door, white

- Spare door for consumer unit
- Same version for PNF-MM as well for PNS and PNF line of consumer units
- Packed separately



Version	For consumer units	Article No.	Type	Packing
White	PNF-MM 24W	101548	DR PNS 24W	1
White	PNF-MM 36W	101550	DR PNS 36W	1
White	PNF-MM 48W	101551	DR PNS 48W	1
White	PNF-MM 2x18W	101549	DR PNS 2x18W	1
White	PNF-MM 3x18W	106201	DR PNS 3x18W	1

Lock with key

- Lock with key
- For subsequent mounting onto enclosure door
- Metal version of lock



Version of lock	For consumer units	Article No.	Type	Packing
Metal	PNF-MM, PNS-MM, PNS, PNF, PNF-HW	101573	LK PN M	1

Flush-mounted IP40 Consumer Units **PNF-MM**

Network devices holder

- Multi-functional holder for routers and switches up to 5 cm width
- Material: metal or plastic



Material	Article No.	Type	Packing
Metal	109047	RH PMF-MM	1
Plastic	116935	RH PMF-MM P	1

Additional insulated terminals

- Additional insulated terminal with holder
- Grey colour
- 2 x 10 or 2 x 15 terminals or 2 x 16 for screwless version



Description	Number of N + PE terminals	Article No.	Type	Packing
Insulated terminal	10 + 10	109053	TH CUB D	1
Insulated terminal	15 + 15	101577	TH CUB P	1
Screwless terminal	16 + 16	116937	TH CUB S	1

Holder for double terminal

- Adding possibility to connect two insulate terminals together
- 1 set = 2 pieces (one per side)



Description	Article No.	Type	Packing
Holder for double terminal	110820	DTH	1 set

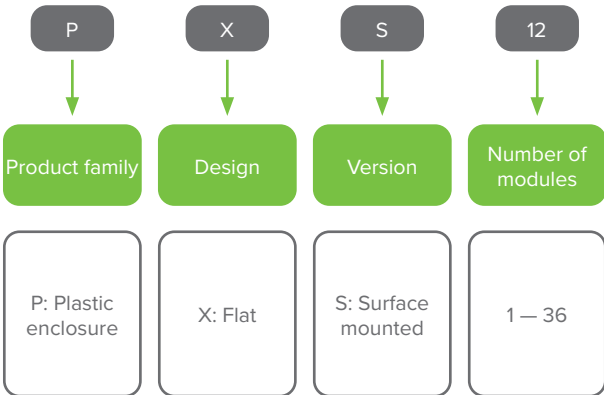
Surface-mounted IP30 Consumer Units **PXS**



- Surface-mounted consumer units PXS
- Degree of protection IP30
- 1 up to 36 modules
- 1 up to 3 rows
- Without door

Consumer units PXS are intended mainly for domestic applications. Their design is suitable for surface mounting. Scope of delivery consists of enclosure, device DIN rails, N + PE terminals (excl. PXS 1 and PXS 2), front cover with device cutout, cover for empty place, mounting material. Delivered without door.

Type Key



Certification marks



Surface-mounted IP30 Consumer Units **PXS**

Consumer units PXS

- Surface mounted version
- 1, 2, 3 or 12 modules per row
- 1 up to 3 rows
- Without door
- Scope of delivery: enclosure, device DIN rails, N + PE terminals (excl. PXS 1 and PXS 2), front cover with device cutout, cover for empty place, mounting material



N+PE terminals	Number of rows	Total modules	Article No.	Type	Packing
—	1	1	113275	PXS 1	1
—	1	2	113276	PXS 2	1
4+4	1	3	101525	PXS 3	1
10+10	1	12	101526	PXS 12	1
13+13	2	24	101527	PXS 24	1
15+15	3	36	101528	PXS 36	1

Additional insulated terminals

- Additional insulated terminal with holder
- Grey colour
- 2 x 10 or 2 x 15 terminals or 2 x 16 for screwless version



Number of N + PE terminals	Article No.	Type	Packing
10 + 10	109053	TH CUB D	1
15 + 15	101577	TH CUB P	1
16 + 16	116937	TH CUB S	1

Holder for double terminal

- Adding possibility to connect two insulate terminals together
- 1 set = 2 pieces (one per side)



Description	Article No.	Type	Packing
Holder for double terminal	110820	DTH	1 set

Covers for empty place

- Covers for unused 45 mm device cutout
- White, grey or black colour
- Total width 224 mm, can be shortened
- Segmented as 1x 15 mm, 22 x 1/2 module width, 1x 15 mm



Colour	Width	Article No.	Type	Packing
White	224 mm	101574	B CC45	1/500
Grey	224 mm	113277	B CC45 G	1/500
Black	224 mm	110192	B CC45 B	1/500

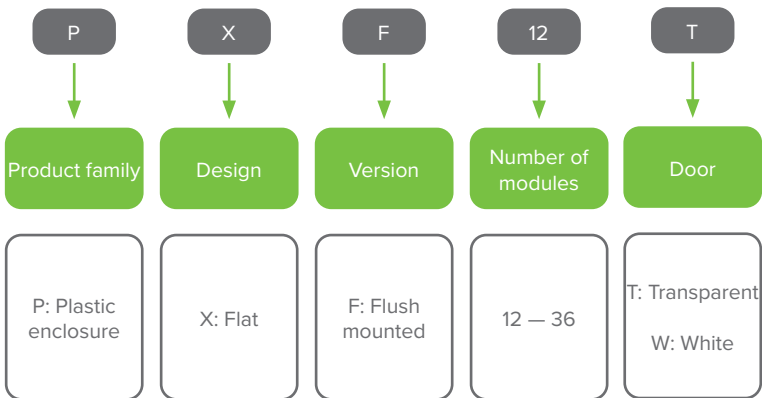
Flush-mounted IP40 Consumer Units **PXF**



- Flush-mounted consumer units PXF
- Degree of protection IP40
- 12 up to 36 modules
- 1 up to 3 rows
- Transparent or white door

Consumer units PXF are intended mainly for domestic applications. Their design is suitable for flush mounting. Scope of delivery consists of enclosure, door, device DIN rails, N + PE terminals, front cover with device cutout, cover for empty place, mounting material.

Type Key



Certification marks



Flush-mounted IP40 Consumer Units **PXF**

Consumer units PXF with transparent door

- Flush mounted version
- 12 modules per row
- 1 up to 3 rows
- Scope of delivery: enclosure, door, device DIN rails, N + PE terminals, front cover with device cutout, cover for empty place, mounting material



N+PE terminals	Number of rows	Total modules	Article No.	Type	Packing
10+10	1	12	101529	PXF 12T	1
13+13	2	24	101530	PXF 24T	1
15+15	3	36	101531	PXF 36T	1

Consumer units PXF with white door

- Flush mounted version
- 12 modules per row
- 1 up to 3 rows
- Scope of delivery: enclosure, door, device DIN rails, N + PE terminals, front cover with device cutout, cover for empty place, mounting material



N+PE terminals	Number of rows	Total modules	Article No.	Type	Packing
10+10	1	12	101532	PXF 12W	1
13+13	2	24	101523	PXF 24W	1
15+15	3	36	101524	PXF 36W	1

Flush-mounted IP40 Consumer Units **PXF**

Spare door, transparent

- Spare door for consumer unit
- For PXF line of consumer units
- Packed separately



Version	For consumer units	Article No.	Type	Packing
Transparent	PXF 12T	101564	DR PXF 12T	1
Transparent	PXF 24T	101565	DR PXF 24T	1
Transparent	PXF 36T	101566	DR PXF 36T	1

Spare door, white

- Spare door for consumer unit
- For PXF line of consumer units
- Packed separately



Version	For consumer units	Article No.	Type	Packing
White	PXF 12W	101567	DR PXF 12W	1
White	PXF 24W	101568	DR PXF 24W	1
White	PXF 36W	101569	DR PXF 36W	1

Additional insulated terminals

- Additional insulated terminal with holder
- Grey colour
- 2 x 10 or 2 x 15 terminals or 2 x 16 for screwless version



Number of N + PE terminals	Article No.	Type	Packing
10 + 10	109053	TH CUB D	1
15 + 15	101577	TH CUB P	1
16 + 16	116937	TH CUB S	1

Cover for empty places

- Covers for unused 45 mm device cutout
- White, grey or black colour
- Total width 224 mm, can be shortened
- Segmented as 1x 15 mm, 22 x 1/2 module width, 1x 15 mm



Colour	Width	Article No.	Type	Packing
White	224 mm	101574	B CC45	1/500
Grey	224 mm	113277	B CC45 G	1/500
Black	224 mm	110192	B CC45 B	1/500

Spare mounting material

- For IP40 flush mounted consumer units
- Package contains: wall holders, stickers, empty place cover



Description	Article No.	Type	Packing
Spare mounting material, IP40	106183	SMM IP40F	1 pack

Mounting frame

- DIN rails connected to mounting frame for easier manipulation and installation



Description	Article No.	Type	Packing
Mounting frame for PXF 24 (2x12MU)	106161	MF PXF 24	1

Holder for double terminal

- Adding possibility to connect two insulate terminals together
- 1 set = 2 pieces (one per side)



Description	Article No.	Type	Packing
Holder for double terminal	110820	DTH	1 set

PLASTIC CONSUMER UNITS WITH STEEL DOOR



PLASTIC CONSUMER UNITS WITH STEEL DOOR

Consumer Units **PMF**

Professional tips



- 1

5 years warranty
- 2

Mounting depth only 87 mm
- 3

1 up to 5 rows
- 4

Glow wire test 850 °C
- 5

Degree of protection IP40 (PMF), IP30 (PMF-MM + PMF-C)
- 6

Multimedia version with accessories
- 7

Mounting plates for data devices
- 8

Heat dissipation metal door with perforation



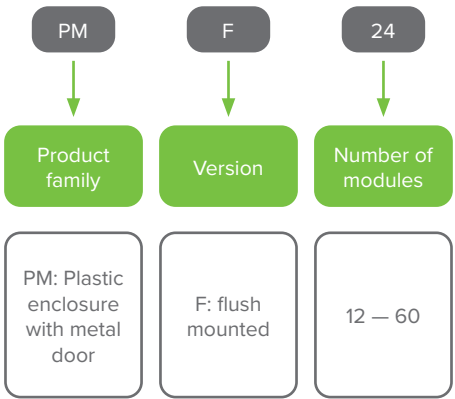
- Flush-mounted consumer units with sheet-steel door PMF
- Tested according to EN 60670 and EN 62208
- Rated current up to 63 A
- Degree of protection IP40
- 12 modules per a row, can be extended to 14
- 1 up to 5 rows
- White (RAL 9016) colour of the door
- Easy mounting into hollow walls
- Mounting depth 87 mm only
- Wall box with a relief for mechanical fixing of cables

Consumer units PMF are intended mainly for domestic applications. Their design is suitable for flush mounting. Dual fixing system allows using also for hollow walls. Tested with glow wire test at 850°C. The height-adjustable front metal frame allows to compensate wall surface imperfections.

The units are available in versions from 12 up to 60 modules with 12 (+2) modules per a row. Degree of protection is IP40, degree of protection against mechanical impact IK08.

Scope of delivery consists of enclosure, metal frame with door, mounting frame with device DIN rails, N + PE terminals, sealable front cover with device cutout, cover for empty place, mounting material and instructions.

Type Key



Certification marks



Consumer units PMF with white metal door

- Flush mounted
- 12 (+2) modules per row
- 1 up to 5 rows
- Scope of delivery: enclosure, metal frame with door, mounting frame with device DIN rails, insulated N + PE terminals, sealable front cover with device cutout, cover for empty place, mounting material and instructions

N+PE terminals	Number of rows	Total modules	Article No.	Type	Packing
10 + 10	1	12 (+2)	107101	PMF 12	1
13 + 13	2	24 (+4)	107102	PMF 24	1
15 + 15	3	36 (+6)	107103	PMF 36	1
20 + 20	4	48 (+8)	107104	PMF 48	1
30 + 30	5	60 (+10)	107262	PMF 60	1

Spare metal frame with door

- Spare metal frame with door for PMF line consumer unit
- Packed separately

For consumer units	Article No.	Type	Packing
PMF 12	107105	DR PMF 12	1
PMF 24	107106	DR PMF 24	1
PMF 36	107107	DR PMF 36	1
PMF 48	107108	DR PMF 48	1
PMF 60	107263	DR PMF 60	1

Lock with key

- Spare metal frame with door for PMF line consumer unit
- Packed separately

Version of lock	For consumer units	Article No.	Type	Packing
Metal	PMF, PNS-SD	105494	LK PM M	1

Connection bracket

- For PMF line of consumer units only
- Connection bar for series installation of several enclosures
- Made from zinc steel sheet
- Installation: 2 pieces for two enclosures

Description	Article No.	Type	Packing
Vertical connection bracket PMF	107280	VCB PM	1
Horizontal connection bracket PMF	108053	HCB PM	1

Additional insulated terminals

- Additional insulated terminal with holder
- Grey colour
- 2 x 10 or 2 x 15 terminals or 2 x 16 for screwless version
- PMF consumer units allow to mount terminals on the top as well as bottom

Description	Number of N + PE terminals	Article No.	Type	Packing
Insulated terminal	10 + 10	109053	TH CUB D	1
Insulated terminal	15 + 15	101577	TH CUB P	1
Screwless terminal	16 + 16	116937	TH CUB S	1

Holder for double terminal

- Adding possibility to connect two insulate terminals together
- 1 set = 2 pieces (one per side)

Description	Article No.	Type	Packing
Holder for double terminal	110820	DTH	1 set

Covers for empty places

- Covers for unused 45 mm device cutout
- White, grey or black colour
- Total width 224 mm, can be shortened
- Segmented as 1x 15 mm, 22 x 1/2 module width, 1x 15 mm

Colour	Width	Article No.	Type	Packing
White	224 mm	101574	B CC45	1/500
Grey	224 mm	113277	B CC45 G	1/500
Black	224 mm	110192	B CC45 B	1/500

Spare mounting material

- For PMF line mounted consumer units
- Scope of delivery
SMM PMF: wall holders (including hollow walls), stickers, empty place cover, screws
SDDA PMF: height-adjustable pads and lock parts for front cover, screws
- Spare parts, both packages are in the standard scope of delivery

Description	Article No.	Type	Packing
Spare mounting material, PMF	107120	SMM PMF	1 set
Height-adjustable pads for front cover, PMF	107122	SDDA PMF	1 set

Spare plastic lock

- For PMF and PNS-SD line of consumer units only
- Spare part, lock is in the standard scope of delivery

Description	Article No.	Type	Packing
Spare lock, PMF, PNS-SD	107121	SL PMF	1

NOTES

Multimedia Consumer Units
PMF-MM



- Flush-mounted consumer units PMF-MM
- Tested according to EN 62208 and EN 60670
- Rated current up to 63 A
- Degree of protection IP30 (IP40 for plastic door)
- 1 up to 5 rows
- Heat dissipation metal door with perforation or plastic door
- White (RAL 9016) colour of the door or transparent plastic door
- Easy mounting into hollow walls
- Mounting depth 87 mm only
- Suitable for routers and modems

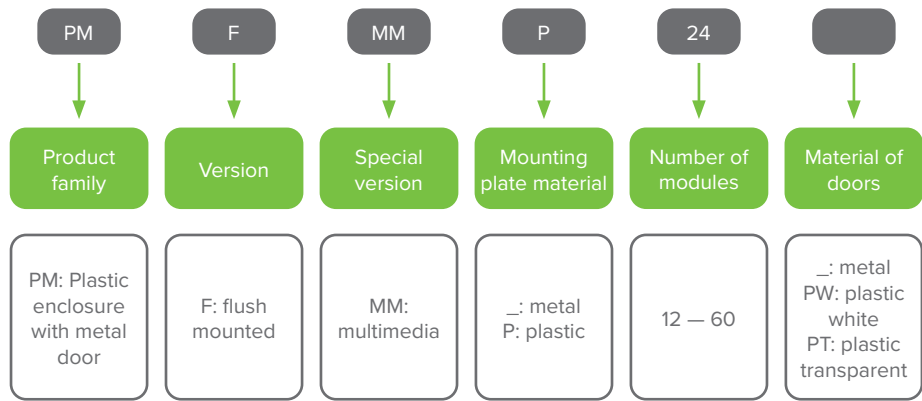
Consumer units PMF-MM are intended mainly for domestic applications. Theirs design is suitable for flush mounting. Dual fixing system allows using also for hollow walls. Tested with glow wire test at 850°C. The height-adjustable front frame allows to compensate wall surface imperfections.

The units are available in versions from 1 up to 5 mounting plates. Degree of protection is IP40 for plastic door and IP30 for metal door with perforation, degree of protection against mechanical impact IK08.

Scope of delivery consists of enclosure, frame with perforated door or plastic door, mounting plate, mounting material and instructions.

Possibility of installation accessories (N+PE terminals) and DIN rails.

Type Key



Certification marks



Multimedia consumer units PMF-MM with perforated white metal door

- Flush mounted
- 1 mouting plate per row
- Plastic or metal mounting plates
- 1 up to 5 rows
- Scope of delivery: enclosure, metal frame with perforated heat dissipation door, mounting plates, mounting material and instructions
- Possibility of installation accessories (N+PE terminals) and DIN rails

With plastic mounting plates

	Material of door	Number of rows	Mounting plates	Article No.	Type	Packing
	Metal, perforated	1	1	116896	PMF-MM P 12	1
	Metal, perforated	2	2	116899	PMF-MM P 24	1
	Metal, perforated	3	3	116902	PMF-MM P 36	1
	Metal, perforated	4	4	116905	PMF-MM P 48	1
	Metal, perforated	5	5	116908	PMF-MM P 60	1

With metal mounting plates

Material of door	Number of rows	Mounting plates	Article No.	Type	Packing
Metal, perforated	1	1	107264	PMF-MM 12	1
Metal, perforated	2	2	107265	PMF-MM 24	1
Metal, perforated	3	3	107266	PMF-MM 36	1
Metal, perforated	4	4	107267	PMF-MM 48	1
Metal, perforated	5	5	107268	PMF-MM 60	1

Multimedia consumer units PMF-MM with plastic door

- Flush mounted
- 1 mouting plate per row
- Plastic or metal mounting plates
- 1 up to 3 rows
- Scope of delivery: enclosure, plastic frame with plastic door, mounting plates, mounting material and instructions
- Possibility of installation accessories (N+PE terminals) and DIN rails

With plastic mounting plates

	Material of door	Number of rows	Mounting plates	Article No.	Type	Packing
	Plastic, white	1	1	116898	PMF-MM P 12 PW	1
	Plastic, white	2	2	116901	PMF-MM P 24 PW	1
	Plastic, white	3	3	116904	PMF-MM P 36 PW	1
	Plastic, white	4	4	116907	PMF MM P 48 PW	1
	Plastic, transparent	1	1	116897	PMF-MM P 12 PT	1
	Plastic, transparent	2	2	116900	PMF-MM P 24 PT	1
	Plastic, transparent	3	3	116903	PMF-MM P 36 PT	1
	Plastic, transparent	4	4	116906	PMF-MM P 48 PT	1

With metal mounting plates

Material of door	Number of rows	Mounting plates	Article No.	Type	Packing
Plastic, white	1	1	111143	PMF-MM 12 PW	1
Plastic, white	2	2	111144	PMF-MM 24 PW	1
Plastic, white	3	3	110708	PMF-MM 36 PW	1
Plastic, white	4	4	113780	PMF-MM 48 PW	1
Plastic, transparent	1	1	111141	PMF-MM 12 PT	1
Plastic, transparent	2	2	111142	PMF-MM 24 PT	1
Plastic, transparent	3	3	110707	PMF-MM 36 PT	1
Plastic, transparent	4	4	113779	PMF-MM 48 PT	1

Spare metal frame with perforated door

- Spare metal frame with perforated door for PMF-MM line consumer unit
- Packed separately

	For consumer units	Article No.	Type	Packing
	PMF-MM 12	107269	DR PMF-MM 12	1
	PMF-MM 24	107270	DR PMF-MM 24	1
	PMF-MM-36	107271	DR PMF-MM 36	1
	PMF-MM 48	107272	DR PMF-MM 48	1
	PMF-MM 60	107273	DR PMF-MM 60	1

Lock with key

- Lock with key
- For subsequent mounting onto enclosure door



Version of lock	For consumer units	Article No.	Type	Packing
Metal	PMF, PNS-SD	105494	LK PM M	1

Spare plastic lock

- For PMF and PNS-SD line of consumer units only
- Spare part, lock is in the standard scope of delivery



Description	Article No.	Type	Packing
Spare lock, PMF, PNS-SD	107121	SL PMF	1

Perforated mounting plate

- Made from zinc steel sheet or plastic
- Height 110 mm
- One mounting plate per row



Material	Height	Article No.	Type	Packing
Zinc steel	110 mm	108052	MP PM	1
Plastic	110 mm	116936	MP PM P	1

DIN rail

- Single DIN rail for 12 modules



Description	Article No.	Type	Packing
DIN rail (12 MU), PMF	108093	MF PNF 12	1

Connection bracket

- For PMF line of consumer units only
- Connection bar for series installation of several enclosures
- Made from zinc steel sheet
- Installation: 2 pieces for two enclosures



Description	Article No.	Type	Packing
Vertical connection bracket PMF	107280	VCB PM	1
Horizontal connection bracket PMF	108053	HCB PM	1

Network devices holder

- Multi-functional holder for routers and switches up to 5 cm width
- Material: metal or plastic



Material	Article No.	Type	Packing
Metal	109047	RH PMF-MM	1
Plastic	116935	RH PMF-MM P	1

Additional insulated terminals

- Additional insulated terminal with holder
- Grey colour
- 2 x 10 or 2 x 15 terminals or 2 x 16 for screwless version
- PMF consumer units allow to mount terminals on the top as well as bottom



Description	Number of N + PE terminals	Article No.	Type	Packing
Insulated terminal	10 + 10	109053	TH CUB D	1
Insulated terminal	15 + 15	101577	TH CUB P	1
Screwless terminal	16 + 16	116937	TH CUB S	1

Holder for double terminal

- Adding possibility to connect two insulate terminals together
- 1 set = 2 pieces (one per side)



Description	Article No.	Type	Packing
Holder for double terminal	110820	DTH	1 set

Spare mounting material

- For PMF line mounted consumer units
- Scope of delivery SMM PMF: wall holders (including hollow walls), stickers, empty place cover, screws
SDDA PMF: height-adjustable pads and lock parts for front cover, screws
- Spare parts, both packages are in the standard scope of delivery



Description	Article No.	Type	Packing
Spare mounting material, PMF	107120	SMM PMF	1 set
Height-adjustable pads for front cover PMF	107122	SDDA PMF	1 set

NOTES

Combo Consumer Units
PMF-C



- Combine energetics and IT equipment
- Tested according to EN 62208 and EN 60670
- Rated current up to 63 A
- Degree of protection IP30
- 3 up to 5 rows
- 1 up to 3 DIN-rails
- 1 up to 4 mounting plates
- Heat dissipation metal door with perforation
- Mounting depth 87 mm only
- Suitable for routers and modems

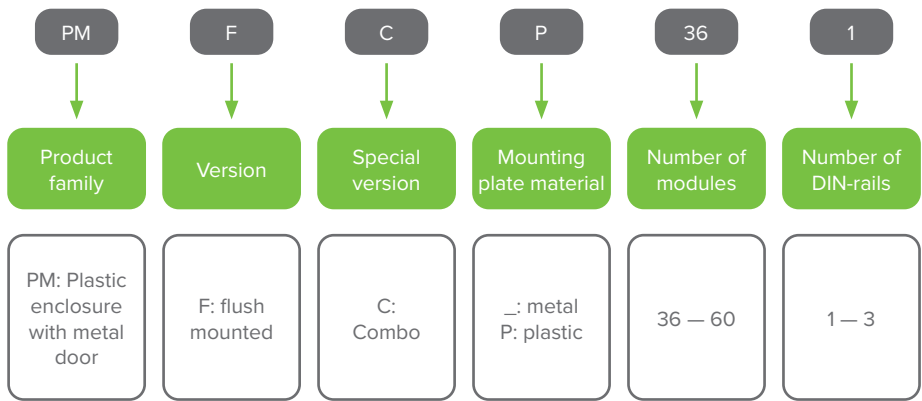
Consumer units PMF-C are intended mainly for domestic applications. Combine energetics and IT equipment, with a possibility to be placed all in one enclosure. This solution saves space and contributes to a greater comfort of housing. Theirs design is suitable for flush mounting. Dual fixing system allows usage also for hollow walls. Tested with glow wire test at 850°C. The height-adjustable front metal frame allows to compensate wall surface imperfections.

The units are available in versions from 1 up to 4 mounting plates and up to 3 DIN-rails. Degree of protection is IP30, degree of protection against mechanical impact IK08.

Scope of delivery consists of enclosure, metal frame with perforated door, mounting plates, DIN-rails, partition without socket, mounting material and instructions.

Possibility of installation accessories.

Type Key



Certification marks



Combo consumer units PMF-C with perforated white metal door

- Flush mounted
- Up to 4 mounting plates
- Plastic or metal mounting plates
- Up to 3 DIN-rails
- 3 up to 5 rows
- Scope of delivery: enclosure, metal frame with perforated door, mounting plates, DIN-rails, partition without socket, mounting material and instructions

With plastic mounting plates



Number of modules	Mounting plates	Number of DIN-rails	Article No.	Type	Packing
36	2	1	116890	PMF-C P 36-1	1
48	3	1	116891	PMF-C P 48-1	1
48	2	2	116892	PMF-C P 48-2	1
60	4	1	116893	PMF-C P 60-1	1
60	3	2	116894	PMF-C P 60-2	1
60	1	3	116895	PMF-C P 60-3	1

With metal mounting plates

Number of modules	Mounting plates	Number of DIN-rails	Article No.	Type	Packing
36	2	1	110709	PMF-C 36-1	1
48	3	1	110710	PMF-C 48-1	1
48	2	2	110711	PMF-C 48-2	1
60	4	1	110712	PMF-C 60-1	1
60	3	2	110713	PMF-C 60-2	1
60	1	3	110714	PMF-C 60-3	1

Spare metal frame with perforated door

- Spare metal frame with perforated door for PMF-MM line consumer unit
- Packed separately



For consumer units	Article No.	Type	Packing
PMF MM-36, PMF-C 36	107271	DR PMF-MM 36	1
PMF MM 48, PMF-C 48	107272	DR PMF-MM 48	1
PMF-MM 60, PMF-C 60	107273	DR PMF-MM 60	1

Lock with key

- Lock with key
- For subsequent mounting onto enclosure door



Version of lock	For consumer units	Article No.	Type	Packing
Metal	PMF, PNS-SD	105494	LK PM M	1

Spare plastic lock

- For PMF and PNS-SD line of consumer units only
- Spare part, lock is in the standard scope of delivery



Description	Article No.	Type	Packing
Spare lock, PMF, PNS-SD	107121	SL PMF	1

Perforated mounting plate

- Made from zinc steel sheet or plastic
- Height 110 mm
- One mounting plate per row



Material	Height	Article No.	Type	Packing
Zinc steel	110 mm	108052	MP PM	1
Plastic	110 mm	116936	MP PM P	1

DIN rail

- Single DIN rail for 12 modules



Description	Article No.	Type	Packing
DIN rail (12 MU), PMF	108093	MF PNF 12	1

Additional insulated terminals

- Additional insulated terminal with holder
- Grey colour
- 2 x 10 or 2 x 15 terminals or 2 x 16 for screwless version
- PMF consumer units allow to mount terminals on the top as well as bottom

	Description	Number of N + PE terminals	Article No.	Type	Packing
	Insulated terminal	10 + 10	109053	TH CUB D	1
	Insulated terminal	15 + 15	101577	TH CUB P	1
	Screwless terminal	16 + 16	116937	TH CUB S	1

Holder for double terminal

- Adding possibility to connect two insulate terminals together
- 1 set = 2 pieces (one per side)

	Description	Article No.	Type	Packing
	Holder for double terminal	110820	DTH	1 set

Partition for integrated socket

- Spare partition between IT and energetics parts

	Material	Article No.	Type	Packing
	Plastic	110715	PWS PMF-C	1

Integrated socket for partition

- Rated current up to 16A
- Rated insulation voltage 1000 V AC
- Terminal capacity up to 6mm²

	Voltage	Type	Article No.	Type	Packing
	250 V AC	Schucko	110716	GS PMF-C	1/5
	250 V AC	Earth pin	110717	FS PMF-C	1/5

Network devices holder

- Multi-functional holder for routers and switches up to 5 cm width
- Material: metal or plastic

	Material	Article No.	Type	Packing
	Metal	109047	RH PMF-MM	1
	Plastic	116935	RH PMF-MM P	1

Connection bracket

- For PMF line of consumer units only
- Connection bar for series installation of several enclosures
- Made from zinc steel sheet
- Installation: 2 pieces for two enclosures

	Description	Article No.	Type	Packing
	Vertical connection bracket PMF	107280	VCB PM	1
	Horizontal connection bracket PMF	108053	HCB PM	1

Spare mounting material

- For PMF line mounted consumer units
- Scope of delivery
 - SMM PMF: wall holders (including hollow walls), stickers, empty place cover, screws
 - SDDA PMF: height-adjustable pads and lock parts for front cover, screws
- Spare parts, both packages are in the standard scope of delivery

	Description	Article No.	Type	Packing
	Spare mounting material, PMF	107120	SMM PMF	1 set
	Height-adjustable pads for front cover, PMF	107122	SDDA PMF	1 set

PLASTIC CONSUMER UNITS FOR OUTDOOR USE



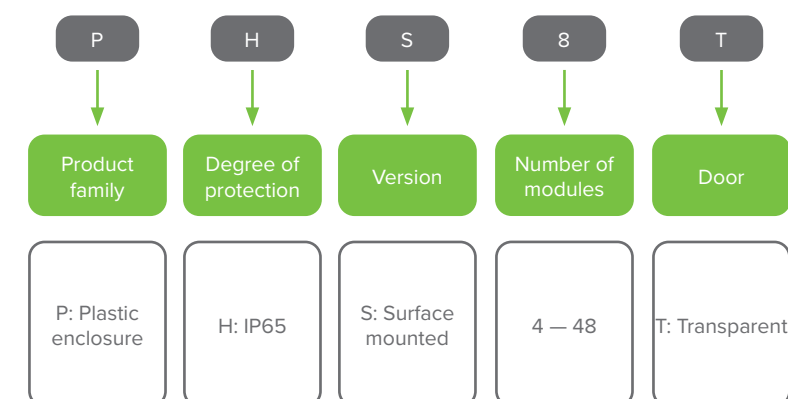
Surface-mounted IP65 Consumer Units **PHS**



- Surface-mounted consumer units PHS
- Rated oper. voltage 400 V AC, 1500 V DC
- Degree of protection IP65
- 4 up to 48 modules
- 1 up to 4 rows
- Transparent door

Consumer units PHS are intended for general applications including industrial ones with requirements for high degree of IP protection. Their design is suitable for surface mounting. Scope of delivery consists of enclosure, door, device DIN rails, N + PE terminals, front cover with device cutout, cover for empty place, mounting material.

Type Key



Certification marks



Consumer units PHS with transparent door

- Surface mounted version
- 4, 6, 8, 12 or 18 modules per row
- 1 up to 4 rows
- Scope of delivery: enclosure, door, device DIN rails, N + PE terminals, front cover with device cutout, cover for empty place, mounting material



N+PE terminals	Number of rows	Total modules	Article No.	Type	Packing
4+4	1	4	101492	PHS 4T	1
6+6	1	6	113262	PHS 6T	1
8+8	1	8	101493	PHS 8T	1
10+10	1	12	101494	PHS 12T	1
13+13	1	18	113263	PHS 18T	1
13+13	2	24	101495	PHS 24T	1
15+15	3	36	101496	PHS 36T	1
20+20	4	48	110814	PHS 48T	1

Spare door, transparent

- Spare door for consumer unit
- Suitable for PHS line of consumer units
- Packed separately



Version	For consumer units	Article No.	Type	Packing
Transparent	PHS 4T	101533	DR PHS 4T	1
Transparent	PHS 6T	113278	DR PHS 6T	1
Transparent	PHS 8T	101534	DR PHS 8T	1
Transparent	PHS 12T	101535	DR PHS 12T	1
Transparent	PHS 18T	113279	DR PHS 18T	1
Transparent	PHS 24T	101536	DR PHS 24T	1
Transparent	PHS 36T	101537	DR PHS 36T	1
Transparent	PHS 48T	111174	DR PHS 48T	1

Additional insulated terminal

- Additional insulated terminal with holder
- Only for PHS 12T or bigger
- Grey colour
- 2 x 10 or 2 x 15 terminals or 2 x 16 for screwless version



Description	Number of N + PE terminals	Article No.	Type	Packing
Insulated terminal	10 + 10	109053	TH CUB D	1
Insulated terminal	15 + 15	101577	TH CUB P	1
Screwless terminal	16 + 16	116937	TH CUB S	1

Lock with key

- Lock with key
- For subsequent mounting onto enclosure door
- Metal version of lock



Version of lock	For consumer units	Article No.	Type	Packing
Metal	PHS	101571	LK PH M	1

Cover for empty place

- Cover for unused 45 mm device cutout
- White, grey or black colour
- Total width 224 mm, can be shortened
- Segmented as 1x15 mm, 22x1/2 module width, 1x15 mm



Colour	Width	Article No.	Type	Packing
White	224 mm	101574	B CC45	1/500
Grey	224 mm	113277	B CC45 G	1/500
Black	224 mm	110192	B CC45 B	1/500

Spare mounting material

- For IP65 surface mounted consumer units
- Package contains: screws, wall plugs, screw covers, stickers, empty place cover



Description	Article No.	Type	Packing
Spare mounting material, IP65	106182	SMM IP65S	1 pack

Cable grommets

- Cable grommets suitable for cutouts prepared on the enclosures
- Used material allows to use various diameter of the conductors (up to 50 mm2)
- Packed separately



Description	Diameter	Article No.	Type	Packing
Cable grommet	16 mm	106860	CGQS M16	1
Cable grommet	20 mm	106208	CGQS M20	1
Cable grommet	25 mm	106209	CGQS M25	1
Cable grommet	32 mm	106210	CGQS M32	1

NOTES

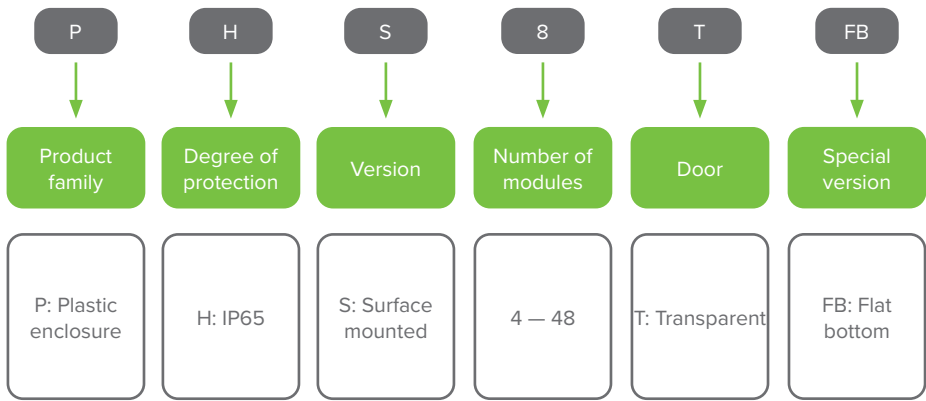
Surface-mounted IP65
Consumer Units **PHS-FB**



- Surface-mounted consumer units PHS
- Rated oper. voltage 400 V AC, 1500 V DC
- Degree of protection IP65
- Flat bottom - without marked cutouts
- Increased diameter of terminals (Φ 7.5 mm)
- 4 up to 48 modules
- 1 up to 4 rows
- Transparent door

Consumer units PHS FB are intended for general applications including industrial ones with requirements for high degree of IP protection. Their design is suitable for surface mounting. Flat bottom version features bottom part of the enclosure without marked cutouts and terminal bars with increased diameter of holes for conductors. Scope of delivery consists of enclosure, door, device DIN rails, N + PE terminals, front cover with device cutout, cover for empty place, mounting material.

Type Key



Certification marks



Consumer units PHS FB with transparent door

- Surface mounted version
- 4, 6, 8, 12 or 18 modules per row
- 1 up to 4 rows
- Scope of delivery: enclosure, door, device DIN rails, N + PE terminals, front cover with device cutout, cover for empty place, mounting material



N+PE terminals	Number of rows	Total modules	Article No.	Type	Packing
4+4	1	4	110821	PHS 4T FB	5
4+4	1	6	113264	PHS 6T FB	5
8+8	1	8	109051	PHS 8T FB	5
10+10	1	12	110684	PHS 12T FB	5
10+10	1	18	113265	PHS 18T FB	5
10+10	2	24	110685	PHS 24T FB	5
10+10	3	36	110822	PHS 36T FB	5
10+10	4	48	113266	PHS 48T FB	5

Spare door, transparent

- Spare door for consumer unit
- Suitable for PHS FB line of consumer units
- Packed separately



Version	For consumer units	Article No.	Type	Packing
Transparent	PHS 4T FB	101533	DR PHS 4T	1
Transparent	PHS 6T FB	113278	DR PHS 6T	1
Transparent	PHS 8T FB	101534	DR PHS 8T	1
Transparent	PHS 12T FB	101535	DR PHS 12T	1
Transparent	PHS 18T FB	113279	DR PHS 18T	1
Transparent	PHS 24T FB	101536	DR PHS 24T	1
Transparent	PHS 36T FB	101537	DR PHS 36T	1
Transparent	PHS 48T FB	111174	DR PHS 48T	1

Lock with key

- Lock with key
- For subsequent mounting onto enclosure door
- Metal version of lock



Version of lock	For consumer units	Article No.	Type	Packing
Metal	PHS	101571	LK PH M	1

Cover for empty place

- Cover for unused 45 mm device cutout
- White, grey or black colour
- Total width 224 mm, can be shortened
- Segmented as 1x 15 mm, 22 x 1/2 module width, 1x 15 mm



Colour	Width	Article No.	Type	Packing
White	224 mm	101574	B CC45	1/500
Grey	224 mm	113277	B CC45 G	1/500
Black	224 mm	110192	B CC45 B	1/500

Spare mounting material

- For IP65 surface mounted consumer units
- Package contains: screws, wall plugs, screw covers, stickers, empty place cover



Description	Article No.	Type	Packing
Spare mounting material, IP65	106182	SMM IP65S	1 pack

Cable grommets

- Cable grommets suitable for cutouts prepared on the enclosures
- Used material allows to use various diameter of the conductors (up to 50 mm²)
- Packed separately



Description	Diameter	Article No.	Type	Packing
Cable grommet	16 mm	106860	CGQS M16	1
Cable grommet	20 mm	106208	CGQS M20	1
Cable grommet	25 mm	106209	CGQS M25	1
Cable grommet	32 mm	106210	CGQS M32	1

Additional insulated terminals

- Additional insulated terminal with holder
- Increased terminals diameter compared to PHS line (Φ7.5 mm)
- Grey colour
- 2x 4/7/10 terminals



For enclosure	Number of N + PE terminals	Article No.	Type	Packing
PHS 4T FB	4 + 4	117707	TH CUB FB4	1
PHS 8T FB	7 + 7	117708	TH CUB FB7	1
PHS 12T FB and bigger	10 + 10	117709	TH CUB FB10	1

METAL FLAT ENCLOSURES



Metal flat enclosures EMF



- Metal (sheet-steel) flat enclosures EMF
- Complies to EN 62208
- Variants for surface and flush mounting
- Versions with 24 and 33 modules per a row, 2 up to 6 rows
- Degree of protection IP30
- Protection against mechanical impact IK07
- White colour
- Mounting depth lower than 118 mm, suitable also for narrow walls

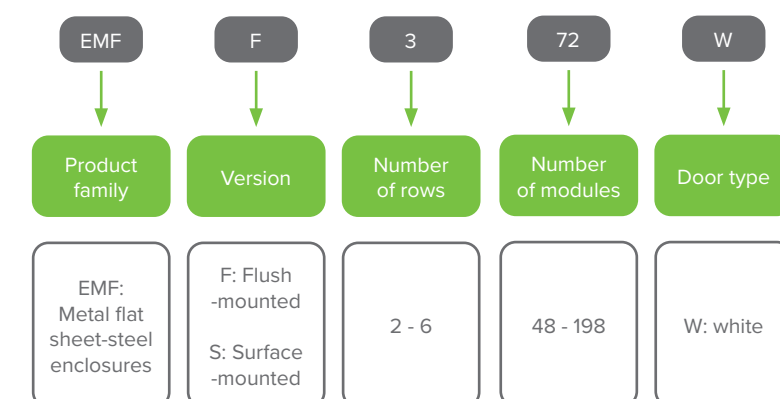
Sheet-steel enclosures EMFF/EMFS are suitable for various applications mainly in domestic and commercial installations. Their flat design and technical solution allow easy mounting onto wall or into relatively narrow walls, including plasterboard ones.

Removable adjustable doorframe allows to avoid possible damage during mounting and especially to compensate wall surface imperfections, including slight rotation. The door opening direction can be easily changed thanks to the applied system of hinges.

On the enclosures there are prepared pre-cut openings for conductors or cable grommets. The adjusting before connecting can thus be done very quickly. All variants are equipped with a removable mounting frame with DIN rails. Whole installation part is covered with self-earthed sheet-steel front plates.

An important part of enclosures EMF is a wide range of accessories for their customisation. There are offered mounting plates, space separators, front plates, cable grommets, cable fixing rail, key-locks and others.

Type Key



Certification marks





Flush mounted versions, sheet-steel door

- Flush mounted
- 24 or 33 modules per a row
- 2 up to 6 rows
- White door colour
- Scope of delivery: enclosure, metal frame with door, mounting frame with device DIN rails, N + PE terminals, front plates with device cutout, grounding cable for door connection, mounting material and instruction sheet



Modules per a row	Number of rows	Total modules	N+PE terminals	Article No.	Type	Packing
24	2	48	2x (1+44)	109809	EMFF2 48W	1
24	3	72	2x (1+44)	109810	EMFF3 72W	1
24	4	96	2x (1+44)	109811	EMFF4 96W	1
24	5	120	2x (1+44)	109812	EMFF5 120W	1
24	6	144	2x (1+44)	109813	EMFF6 144W	1
33	2	66	2x (1+44)	109819	EMFF2 66W	1
33	3	99	2x (1+44)	109820	EMFF3 99W	1
33	4	132	2x (1+44)	109821	EMFF4 132W	1
33	5	165	2x (1+44)	109822	EMFF5 165W	1
33	6	198	2x (1+44)	109823	EMFF6 198W	1

Surface mounted versions, sheet-steel door

- Surface mounted
- 24 or 33 modules per a row
- 2 up to 6 rows
- White door colour
- Scope of delivery: enclosure, metal frame with door, mounting frame with device DIN rails, N + PE terminals, front plates with device cutout, grounding cable for door connection, mounting material and instruction sheet



Modules per a row	Number of rows	Total modules	N+PE terminals	Article No.	Type	Packing
24	2	48	2x (1+44)	109814	EMFS2 48W	1
24	3	72	2x (1+44)	109815	EMFS3 72W	1
24	4	96	2x (1+44)	109816	EMFS4 96W	1
24	5	120	2x (1+44)	109817	EMFS5 120W	1
24	6	144	2x (1+44)	109818	EMFS6 144W	1
33	2	66	2x (1+44)	109824	EMFS2 66W	1
33	3	99	2x (1+44)	109825	EMFS3 99W	1
33	4	132	2x (1+44)	109826	EMFS4 132W	1
33	5	165	2x (1+44)	109827	EMFS5 165W	1
33	6	198	2x (1+44)	109828	EMFS6 198W	1

Spare door

- Spare door with plastic lock for EMF
- Common for flush and surface mounted enclosure's door
- 24 or 33 modules per a row
- 2 up to 6 rows
- White coloured sheet-steel parts of door
- Packed separately
- Door hinges are not included



Modules per a row	Number of rows	Total modules	Article No.	Type	Packing
24	2	48	109939	EMF DR2 48W	1
24	3	72	109940	EMF DR3 72W	1
24	4	96	109941	EMF DR4 96W	1
24	5	120	109942	EMF DR5 120W	1
24	6	144	109943	EMF DR6 144W	1
33	2	66	109944	EMF DR2 66W	1
33	3	99	109945	EMF DR3 99W	1
33	4	132	109946	EMF DR4 132W	1
33	5	165	109947	EMF DR5 165W	1
33	6	198	109948	EMF DR6 198W	1

Spare door hinges

- Spare door hinges set (1 set necessary for 1 door)
- Common for flush and surface mounted enclosure's door
- Packed separately
- In the scope of delivery: plastic holders, metal hinges



Description	Article No.	Type	Packing
Spare door hinges	109831	EMF SDH	1 set

Metal front plates

- Various types and sizes of spare front plates for covering of internal space in enclosures according to used devices and needs
- Common for flush and surface mounted enclosures
- 24 or 33 modules per a row variants
- White coloured sheet-steel
- Packed separately
- Mouting screws in the scope of delivery

Metal front plates with cutout 45 mm

	Description	Modules per row	Height	Article No.	Type	Packing
	Standard plate	24	141 mm	109935	EMF FP 1 24	1
	Wide outer plate	24	212 mm	109937	EMF FP 1+ 24	1
	Standard plate	33	141 mm	109936	EMF FP 1 33	1
	Wide outer plate	33	212 mm	109938	EMF FP 1+ 33	1

Blind metal front plates

	Description	Modules per row	Height	Article No.	Type	Packing
	Narrow outer plate	24	71 mm	109835	EMF FPB 0+ 24	1
	Narrow outer plate	33	71 mm	109933	EMF FPB 0+ 33	1

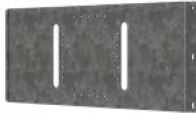
Universal mounting plates

- Universal mounting plates for mounting of arbitrary devices of appropriate dimensions with screws
- Can be fitted also by means of pressed screws in order to not overlap outer dimensions of the enclosure
- Common for flush and surface mounted enclosures
- 24 or 33 modules per row variants
- Galvanized sheet-steel
- Packed separately
- Mounting material in the scope of delivery

	Description	Modules per row	Height	Article No.	Type	Packing
	Universal mounting plate	24	80 mm	109836	EMF UMP 80 24	1
	Universal mounting plate	24	160 mm	109838	EMF UMP 160 24	1
	Universal mounting plate	33	80 mm	109932	EMF UMP 80 33	1
	Universal mounting plate	33	160 mm	109934	EMF UMP 160 33	1

Mounting plates for MCCBs line Ex9M

- Tailored pre-drilled mounting plates for mounting of MCCBs of Ex9M line, frame sizes M1 and M2
- Mounting holes with thread for easy mounting of Ex9M1 and Ex9M2
- In case common mounting depth of the M1 size breaker's front panel is requested, it is necessary to use mounting depth spacers WG 10
- Common for flush and surface mounted enclosures
- 24 or 33 modules per row variants
- Galvanized sheet-steel
- Packed separately
- Mounting material in the scope of delivery

	Description	Modules per row	Article No.	Type	Packing
	Mounting plate for MCCBs	24	110699	EMF MP M12 24	1
	Mounting plate for MCCBs	33	110700	EMF MP M12 33	1

Horizontal separators

- Horizontal space separators can be used e.g. for separation of electronic and electric part of installation
- Common for flush and surface mounted enclosures
- 24 modules per a row
- Galvanized sheet-steel
- Packed separately
- Mounting material in the scope of delivery

	Description	Modules per row	Article No.	Type	Packing
	Horizontal separator	24	109837	EMF HS 24	1

Cable fixing rails

- Metal rail suitable for cable fixing in the enclosure
- Common for flush and surface mounted enclosures
- 24 modules per row
- Galvanized sheet-steel
- Packed separately
- Mounting material in the scope of delivery

	Description	Modules per row	Article No.	Type	Packing
	Cable fixing rail	24	109839	EMF CFR24	1

Mounting holders

- Set of metal straps for fixing and easier mounting of flush mounted enclosures into the walls
- Can be used as mounting holders when installing into brick walls or for fixing into construction of plaster boards, when the wall supports are not located directly at the edge of the enclosure
- Packed separately
- Four pieces in the scope of delivery



Description	Article No.	Type	Packing
Set of mounting holders for flush mounted enclosures	109931	EMFF MH	1 set

Spare mounting material

- Spare mounting material for EMF line enclosures
- Scope of delivery: grounding cable for door with pads and nuts, screws



Description	Article No.	Type	Packing
Spare mounting material for flush mounted enclosures	109832	EMFF SMM	1 set
Spare mounting material for surface mounted enclosures	109833	EMFS SMM	1 set

Additional N/PE terminals

- Rated current up to 63 A
- Packed separately

Horizontal terminal bar holders



Description	Article No.	Type	Packing
Horizontal terminal bar holders	109830	EMF TBH	1 set

Terminal bars



Description	Terminals	Article No.	Type	Packing
N/PE terminal bar	2x (1 x 25 + 46 x 16 mm)	109829	EMF TB45+2	1

Set for mounting of EMF DLK lock-keys

- Set (two tailored metal cover plates) for mounting of lock-key to the plastic lock cutout in enclosure's door
- Suitable EMF DLK lock-key to be ordered separately
- Common for flush and surface mounted enclosures
- White coloured sheet-steel
- Packed separately without lock-key



Description	Article No.	Type	Packing
Set for mounting of EMF DLK lock-key	109834	EMF LMS	1 set

Lock-keys

- Suitable sets of lock-keys for mounting set EMF LMS
- Various types of inserts
- Housing diameter 28 mm, height 18 mm
- Cam length 35 mm
- Packed separately without EMF LMS
- In the scope of delivery: housing, insert, flat external seal, nut, cam, screw



Insert shape		Article No.	Type	Packing
square socket, 6 mm		106826	MF DLK SQ6	1 set
square pin, 6 mm		106863	MF DLK SP6	1 set
double bit, 3 mm pin		106825	MF DLK DB3	1 set
double bit, 5 mm pin		106828	MF DLK DB5	1 set
slotted 2x4mm		106829	MF DLK S24	1 set
Czech crescent		106827	MF DLK CZ	1 set
Daimler-Benz		106830	MF DLK D	1 set
Lock with key		109048	MF DLK K	1 set

Covered neutral and grounding terminal bars

- Rated current up to 63 A
- Rated operational voltage 690 V AC
- All side finger-safe
- One-side closed conductor notch
- Plastic DIN-rail clip
- For wires up to 16 mm²



Terminals	Terminal capacity	Colour	Article No.	Type	Packing
7	up to 16 mm²	blue	103850	TBB 7x16	1/10
7	up to 16 mm²	green	103851	TBG 7x16	1/10
15	up to 16 mm²	blue	103852	TBB 15x16	1/10
15	up to 16 mm²	green	103853	TBG 15x16	1/10

Uncovered neutral and grounding terminal bars

- Rated current up to 63 A
- Rated operational voltage 690 V AC
- Plastic DIN-rail clip
- For wires up to 10 mm²



Terminals	Terminal capacity	Colour	Article No.	Type	Packing
7	10 mm²	blue	103854	TBB 7x10	1/10
7	10 mm²	green	103855	TBG 7x10	1/10
15	10 mm²	blue	103856	TBB 12x10	1/10
15	10 mm²	green	103857	TBG 12x10	1/10

Terminal bars up to 63 A with steel DIN rail clip

- Rated current up to 63 A
- Rated operational voltage 690 V AC
- Steel-sheet DIN-rail clip, self-earthed
- For wires up to 10 mm²



Terminals	Terminal capacity	Article No.	Type	Packing
7	10 mm²	103858	TB 7x10	1/10
12	10 mm²	103859	TB 12x10	1/10

Plastic cover for empty place

- Plastic cover for unused 45 mm device cutouts
- Total width 224 mm, can be shortened
- Segmented as 1x 15 mm, 22 x 1/2 module width, 1x 15 mm
- White colour plastic
- Packed separately



Description	Article No.	Type	Packing
Plastic cover for unused 45 mm device cutout	101574	B CC45	1/500

Plastic documentation pocket

- Self-adhesive pocket for documentation
- Suitable for A4 paper size documents
- PVC material
- Packed separately



Description	Size	Article No.	Type	Packing
Self-adhesive documentation pocket, slim	A4	106832	MF PDP A4S	1

Cable grommets

- Cable grommets suitable for cutouts prepared on the topside of surface mounted enclosures
- Top panels of EMFS enclosures are pre-cut for 16 mm diameter grommets
- Used material allows to use various diameter of the conductors (up to 50 mm²)
- Packed separately



Description	Diameter	Article No.	Type	Packing
Cable grommet for EMFS enclosures	16 mm	106860	CGQS M16	1
Cable grommet	20 mm	106208	CGQS M20	1
Cable grommet	25 mm	106209	CGQS M25	1
Cable grommet	32 mm	106210	CGQS M32	1

Type label

- Pre-printed type label for distribution boards according to EN 61439
- Box texts in EN, CZ, SK, PL, RO, DE, FR, RU, UK, BG, HR, HU, IT, LT, LV, EE language
- Material: Aluminium foil, resistive to chemical cleaners
- Self-adhesive



Description	Article No.	Type	Packing
Empty type label for distribution boards, self-adhesive	107841	MF TL	10

Special colour on request

- Enclosures EMF can be produced in non-standard colours
- Standards RAL codes can be chosen
- Please contact NOARK staff with specification, based on which real possibility will be checked

Special version on request

- Enclosures EMF can be produced in modified design
- Changes must not affect general parameters of the enclosure
- Typical changes - e.g. non-standard dimensions (within the range of smallest and biggest type), different internal configuration, etc.
- Please contact NOARK staff with specification, based on which real possibility will be checked

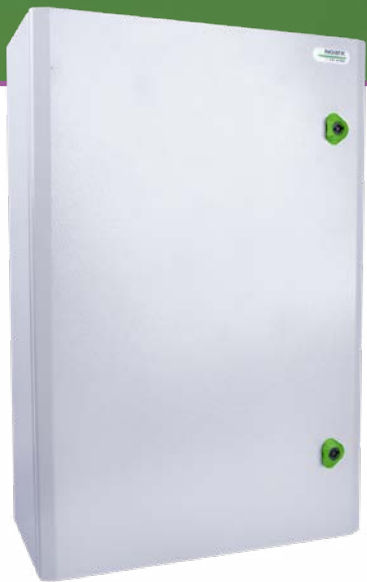
METAL ENCLOSURES WITH MOUNTING PLATES



NOTES



IP66 Metal enclosures
MHS



- Metal enclosures with high protection degree MHS
- According to IEC/EN 62208 standard
- Variants for surface mounting
- IP66 for single door enclosures, IP55 for double door enclosures
- Fully welded construction
- Light grey RAL 7035 powder coating
- Top and bottom gland plates
- Complementary accessories

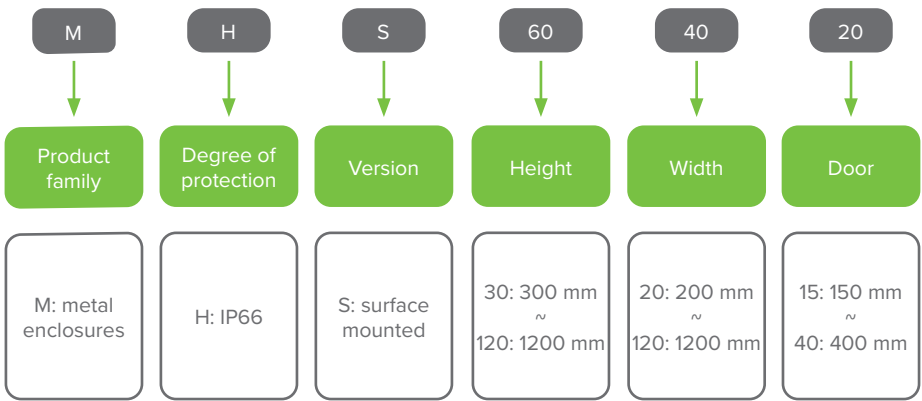
Metal enclosures MHS with mounting plates are surface mounted enclosures suitable mainly for industrial applications where high protection degree (IP) is needed. Protection degree IP66 for single door enclosures and IP55 for double door enclosures.

Usage of quality sheet steel and fully welded construction are the key elements for robustness and rigidity with IK10. Glad plates on bottom and top of enclosure can provide you a maximum possibility of adaptation your application requests. Also due to enclosure symetry, you can change the position of doors by simply putting it up side down.

We offer complementary accessories as rain canopies, mounting frames for cover plates, cover plates with or without cutout for modules, glazed doors, pole mountings and earthing cables. Spare parts as mounting plates, solid doors and wall brackets you can also find in our portfolio.

In scope of delivery is enclosure, door, mounting plate, gland plates, wall brackets and mounting material.

Type Key



Certification marks



Metal enclosure MHS with mounting plate

- Surface mounted metal enclosures with mounting plate and solid door
- High degree of protection IP66 for single door, IP55 for double door
- Top and bottom gland plate
- Scope of delivery: enclosure, solid door, mounting plate, gland plates, wall brackets and mounting material (earthing cable is not included)



Height	Width	Depth	Number of doors	Article No.	Type	Packing
300 mm	200 mm	150 mm	1	110562	MHS 30 20 15	1
300 mm	300 mm	150 mm	1	110563	MHS 30 30 15	1
300 mm	300 mm	200 mm	1	110564	MHS 30 30 20	1
400 mm	300 mm	150 mm	1	110565	MHS 40 30 15	1
400 mm	300 mm	200 mm	1	110566	MHS 40 30 20	1
400 mm	400 mm	200 mm	1	110567	MHS 40 40 20	1
500 mm	400 mm	150 mm	1	110568	MHS 50 40 15	1
500 mm	400 mm	200 mm	1	110569	MHS 50 40 20	1
600 mm	400 mm	200 mm	1	110570	MHS 60 40 20	1
600 mm	400 mm	300 mm	1	110571	MHS 60 40 30	1
600 mm	500 mm	200 mm	1	110572	MHS 60 50 20	1
600 mm	600 mm	200 mm	1	110573	MHS 60 60 20	1
600 mm	600 mm	300 mm	1	110574	MHS 60 60 30	1
600 mm	800 mm	300 mm	2	110575	MHS 60 80 30	1
700 mm	500 mm	200 mm	1	110576	MHS 70 50 20	1
700 mm	500 mm	300 mm	1	110577	MHS 70 50 30	1
800 mm	600 mm	200 mm	1	110578	MHS 80 60 20	1
800 mm	600 mm	300 mm	1	110579	MHS 80 60 30	1
1000 mm	600 mm	200 mm	1	115454	MHS 100 60 20	1
1000 mm	600 mm	300 mm	1	110580	MHS 100 60 30	1
1000 mm	800 mm	300 mm	1	110581	MHS 100 80 30	1
1000 mm	1000 mm	300 mm	2	110582	MHS 100 100 30	1
1200 mm	600 mm	300 mm	1	110583	MHS 120 60 30	1
1200 mm	800 mm	300 mm	1	110584	MHS 120 80 30	1
1200 mm	800 mm	400 mm	1	115451	MHS 120 80 40	1
1200 mm	1000 mm	300 mm	2	110585	MHS 120 100 30	1
1200 mm	1000 mm	400 mm	2	115452	MHS 120 100 40	1
1200 mm	1200 mm	300 mm	2	115455	MHS 120 120 30	1
1200 mm	1200 mm	400 mm	2	115453	MHS 120 120 40	1

Solid doors

- Solid door as a spare part for MHS enclosures
- Scope of delivery: solid door, lock



Height	Width	Double door	Article No.	Type	Packing
300 mm	200 mm	-	110643	SD MHS 30 20	1
300 mm	300 mm	-	110644	SD MHS 30 30	1
400 mm	300 mm	-	110645	SD MHS 40 30	1
400 mm	400 mm	-	110646	SD MHS 40 40	1
500 mm	400 mm	-	110647	SD MHS 50 40	1
600 mm	400 mm	-	110648	SD MHS 60 40	1
600 mm	500 mm	-	110649	SD MHS 60 50	1
700 mm	500 mm	-	110650	SD MHS 70 50	1
600 mm	600 mm	-	110651	SD MHS 60 60	1
800 mm	600 mm	-	110652	SD MHS 80 60	1
1000 mm	600 mm	-	110653	SD MHS 100 60	1
1200 mm	600 mm	-	110654	SD MHS 120 60	1
600 mm	800 mm	-	110655	SD MHS 60 80	1
600 mm	800 mm	yes	110656	SD MHS 60 80 D	1
1000 mm	800 mm	-	110657	SD MHS 100 80	1
1200 mm	800 mm	-	110658	SD MHS 120 80	1
1000 mm	1000 mm	yes	110659	SD MHS 100 100 D	1
1200 mm	1000 mm	yes	110660	SD MHS 120 100 D	1

Glazed doors

- Glazed door as a complementary part for MHS enclosures
- If used, protection degree of enclosure will be downgraded to IP65
- Tempered glass of thickness 4 mm
- Scope of delivery: glazed door, lock



Height	Width	Double door	Article No.	Type	Packing
300 mm	300 mm	-	110661	GD MHS 30 30	1
400 mm	300 mm	-	110662	GD MHS 40 30	1
400 mm	400 mm	-	110663	GD MHS 40 40	1
500 mm	400 mm	-	110664	GD MHS 50 40	1
600 mm	400 mm	-	110665	GD MHS 60 40	1
600 mm	500 mm	-	110666	GD MHS 60 50	1
700 mm	500 mm	-	110667	GD MHS 70 50	1
600 mm	600 mm	-	110668	GD MHS 60 60	1
800 mm	600 mm	-	110669	GD MHS 80 60	1
1000 mm	600 mm	-	110670	GD MHS 100 60	1
1200 mm	600 mm	-	110671	GD MHS 120 60	1
600 mm	800 mm	-	110672	GD MHS 60 80	1
1000 mm	800 mm	-	110673	GD MHS 100 80	1
1200 mm	800 mm	-	110674	GD MHS 120 80	1

Earthing cables

- Earthing cable for connecting door and body of MHS enclosures
- Scope of delivery: earthing cable



For screws	Length	Article No.	Type	Packing
M8 - M8	190 mm	110683	EC MHS	1/100

Mounting plates

- Galvanized mounting plates as spare part for MHS enclosures
- Scope of delivery: mounting plate, mounting material



Height	Width	Article No.	Type	Packing
300 mm	200 mm	110586	MP MHS 30 20	1/10
300 mm	300 mm	110587	MP MHS 30 30	1/10
400 mm	300 mm	110588	MP MHS 40 30	1/10
400 mm	400 mm	110589	MP MHS 40 40	1/10
500 mm	400 mm	110590	MP MHS 50 40	1/10
600 mm	400 mm	110591	MP MHS 60 40	1/2
600 mm	500 mm	110592	MP MHS 60 50	1/2
700 mm	500 mm	110593	MP MHS 70 50	1/2
600 mm	600 mm	110594	MP MHS 60 60	1/2
800 mm	600 mm	110595	MP MHS 80 60	1/2
1000 mm	600 mm	110596	MP MHS 100 60	1/2
1200 mm	600 mm	110597	MP MHS 120 60	1/2
600 mm	800 mm	110598	MP MHS 60 80	1/2
1000 mm	800 mm	110599	MP MHS 100 80	1/2
1200 mm	800 mm	110600	MP MHS 120 80	1/2
1000 mm	1000 mm	110601	MP MHS 100 100	1/2
1200 mm	1000 mm	110602	MP MHS 120 100	1/2

Rain canopies

- Rain canopy for MHS enclosure
- Scope of delivery: rain canopy, mounting material



Height	Width	Depth	Article No.	Type	Packing
-	300 mm	150 mm	110631	RC MHS 00 30 15	1
-	300 mm	200 mm	110632	RC MHS 00 30 20	1
-	400 mm	150 mm	110633	RC MHS 00 40 15	1
-	400 mm	200 mm	110634	RC MHS 00 40 20	1
-	400 mm	300 mm	110635	RC MHS 00 40 30	1
-	500 mm	200 mm	110636	RC MHS 00 50 20	1
-	500 mm	300 mm	110637	RC MHS 00 50 30	1
-	600 mm	200 mm	110638	RC MHS 00 60 20	1
-	600 mm	300 mm	110639	RC MHS 00 60 30	1
-	800 mm	200 mm	110640	RC MHS 00 80 20	1
-	800 mm	300 mm	110641	RC MHS 00 80 30	1
-	1000 mm	300 mm	110642	RC MHS 00 100 30	1

Cover plate mounting frames

- Mounting frame for placing the cover plates
- Scope of delivery: left and right part of frame, mounting material



Height	Article No.	Type	Packing
300 mm	110603	MF MHS 30	1
400 mm	110604	MF MHS 40	1
500 mm	110605	MF MHS 50	1
600 mm	110606	MF MHS 60	1
700 mm	110607	MF MHS 70	1
800 mm	110608	MF MHS 80	1
1000 mm	110609	MF MHS 100	1
1200 mm	110610	MF MHS 120	1

Cover plates

- Cover plate with or without cutout for modular devices
- Total height of cover plates must be at least 20 mm less than height of enclosure
- Scope of delivery: cover plate, mounting material



Height	For enclosure width	Number of modules	Article No.	Type	Packing
100 mm	300 mm	-	110611	CP MHS 10 30	1
120 mm	300 mm	-	110612	CP MHS 12 30	1
160 mm	300 mm	-	110613	CP MHS 16 30	1
100 mm	400 mm	-	110614	CP MHS 10 40	1
120 mm	400 mm	-	110615	CP MHS 12 40	1
160 mm	400 mm	-	110616	CP MHS 16 40	1
100 mm	500 mm	-	110617	CP MHS 10 50	1
120 mm	500 mm	-	110618	CP MHS 12 50	1
160 mm	500 mm	-	110619	CP MHS 16 50	1
100 mm	600 mm	-	110620	CP MHS 10 60	1
120 mm	600 mm	-	110621	CP MHS 12 60	1
160 mm	600 mm	-	110622	CP MHS 16 60	1
120 mm	300 mm	12	110623	CP MHS 12 30 12M	1
160 mm	300 mm	12	110624	CP MHS 16 30 12M	1
120 mm	400 mm	18	110625	CP MHS 12 40 18M	1
160 mm	400 mm	18	110626	CP MHS 16 40 18M	1
120 mm	500 mm	24	110627	CP MHS 12 50 24M	1
160 mm	500 mm	24	110628	CP MHS 16 50 24M	1
120 mm	600 mm	29	110629	CP MHS 12 60 29M	1
160 mm	600 mm	29	110630	CP MHS 16 60 29M	1

Wall brackets

- Wall brackets as a spare part for MHS enclosures
- Scope of delivery: wall brackets, mounting material



Quantity	Article No.	Type	Packing
4 pcs	110675	WB MHS 4	1 set
6 pcs	110676	WB MHS 6	1 set

Pole mountings

- Pole mounting for MHS enclosures
- Scope of delivery: pole mounting set, mounting material



Height	For enclosure width	Number of grips	Article No.	Type	Packing
-	300 mm	2	110677	PM MHS 00 30	1 set
-	400 mm	2	110678	PM MHS 00 40	1 set
-	500 mm	2	110679	PM MHS 00 50	1 set
-	600 mm	2	110680	PM MHS 00 60	1 set
-	600 mm	3	110681	PM MHS 00 60-3	1 set
-	800 mm	3	110682	PM MHS 00 80	1 set

Lock key

- Lock key suitable for MHS enclosures as replacement of supplied lock
- Only for single door enclosures (please check number of lock per enclosure)
- Cam length 22 mm
- Packed separately

Insert shape	Article No.	Type	Packing
Lock with key	110704	LK MHS K	1



Cable brush entry

- Height of brush 35 or 55 mm
- Roll of 25 m
- Materials: body - thermoplastic elastomer (TPE); brushes - polypropylene (PP)



Height of brush	Article No.	Type	Packing
55 mm	110811	CB MHS 5.5	1 roll
35 mm	110812	CB MHS 3.5	1 roll

STAND-ALONE ENCLOSURES



NOTES

Modular stand-alone enclosures **SHA**



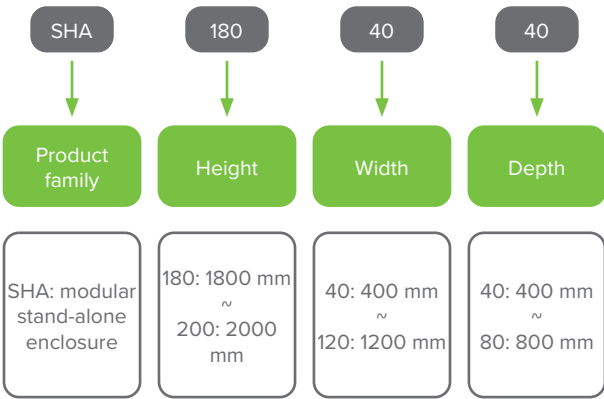
- Modular stand-alone enclosures with high protection degree SHA
- According to IEC/EN 62208 standard
- IP55 protection degree (EN 60529)
- Multiple mounting plate possibility
- Foamed-in door/rear panel PU sealing gasket
- Swing-handle polyamide lock (3 points locking, 333 key)
- Door and panel options for rear side
- The modular construction can be join
- Removable side panels
- Complementary accessories

Modular stand-alone enclosure SHA are suitable for industrial and commercial applications. Reliable sealing gasket on a door and other parts of body is a reason of high protection degree IP 55.

Modular system is based on assembly of many parts together and by this system is possible to customize enclosure to the details and can be equipped for specific needs. Many dimensional variants are available in two height versions of 1800 and 2000 mm; width from 400 to 1200 mm and depth 400 up to 800 mm. SHA have high quality sheet steel of proper thickness as a standard.

The wide range of accessories for SHA enclosures allows them to be adapted to different applications. Accessories for MSA and SHA are compatible.

Type Key



Certification marks



Body of stand-alone enclosure **SHA**

- Material DIN EN 10130 DC01 CCRS
- 1.5 mm thickness for frames and panel, 2mm thickness for door
- Surface is finished by RAL7035w powder coating
- Supply includes front and rear frame, solid door and rear panel, top cover, 4 or 6 pcs of side rails
- NOT INCLUDED: plinth, mounting plate and side panels (for complete usable enclosure)
- We deliver the products either assembled or disassembled, depending on your needs
- For more information, please contact our sales representative



Height	Width	Depth	Article No.	Type	Packing
1800 mm	400 mm	400 mm	110834	SHA 180 40 40	1
1800 mm	400 mm	600 mm	110835	SHA 180 40 60	1
1800 mm	400 mm	800 mm	110836	SHA 180 40 80	1
1800 mm	600 mm	400 mm	110837	SHA 180 60 40	1
1800 mm	600 mm	600 mm	110838	SHA 180 60 60	1
1800 mm	600 mm	800 mm	110839	SHA 180 60 80	1
1800 mm	800 mm	400 mm	110840	SHA 180 80 40	1
1800 mm	800 mm	600 mm	110841	SHA 180 80 60	1
1800 mm	800 mm	800 mm	110842	SHA 180 80 80	1
1800 mm	1000 mm	400 mm	110843	SHA 180 100 40	1
1800 mm	1000 mm	600 mm	110844	SHA 180 100 60	1
1800 mm	1000 mm	800 mm	110845	SHA 180 100 80	1
1800 mm	1200 mm	400 mm	110846	SHA 180 120 40	1
1800 mm	1200 mm	600 mm	110847	SHA 180 120 60	1
1800 mm	1200 mm	800 mm	110848	SHA 180 120 80	1
2000 mm	400 mm	400 mm	110849	SHA 200 40 40	1
2000 mm	400 mm	600 mm	110850	SHA 200 40 60	1
2000 mm	400 mm	800 mm	110851	SHA 200 40 80	1
2000 mm	600 mm	400 mm	110852	SHA 200 60 40	1
2000 mm	600 mm	600 mm	110853	SHA 200 60 60	1
2000 mm	600 mm	800 mm	110854	SHA 200 60 80	1
2000 mm	800 mm	400 mm	110855	SHA 200 80 40	1
2000 mm	800 mm	600 mm	110856	SHA 200 80 60	1
2000 mm	800 mm	800 mm	110857	SHA 200 80 80	1
2000 mm	1000 mm	400 mm	110858	SHA 200 100 40	1
2000 mm	1000 mm	600 mm	110859	SHA 200 100 60	1
2000 mm	1000 mm	800 mm	110860	SHA 200 100 80	1
2000 mm	1200 mm	400 mm	110861	SHA 200 120 40	1
2000 mm	1200 mm	600 mm	110862	SHA 200 120 60	1
2000 mm	1200 mm	800 mm	110863	SHA 200 120 80	1

Bottom cover plate

- Material DIN EN 10130 DC01 CCRS
- 2 mm thickness
- Surface is finished by RAL7035w powder coating
- Supply includes bottom cover plates fasteners



Width	Depth	Height	Article No.	Type	Packing
400 mm	400 mm	2 mm	110922	PL SHA 40 40	1
400 mm	600 mm	2 mm	110923	PL SHA 40 60	1
400 mm	800 mm	2 mm	110924	PL SHA 40 80	1
600 mm	400 mm	2 mm	110925	PL SHA 60 40	1
600 mm	600 mm	2 mm	110926	PL SHA 60 60	1
600 mm	800 mm	2 mm	110927	PL SHA 60 80	1
800 mm	400 mm	2 mm	110928	PL SHA 80 40	1
800 mm	600 mm	2 mm	110929	PL SHA 80 60	1
800 mm	800 mm	2 mm	110930	PL SHA 80 80	1
1000 mm	400 mm	2 mm	110931	PL SHA 100 40	1
1000 mm	600 mm	2 mm	110932	PL SHA 100 60	1
1000 mm	800 mm	2 mm	110933	PL SHA 100 80	1
1200 mm	400 mm	2 mm	110934	PL SHA 120 40	1
1200 mm	600 mm	2 mm	110935	PL SHA 120 60	1
1200 mm	800 mm	2 mm	110936	PL SHA 120 80	1

Plinth

- Material DIN EN 10130 DC01 CCRS
- 2 mm thickness
- Surface is finished by RAL7035w powder coating
- Supply includes cover plates, mounting screws and plinth mounting fasteners



Height	Width	Depth	Article No.	Type	Packing
100 mm	400 mm	400 mm	110888	PL SHA 10 40 40	1
100 mm	400 mm	600 mm	110889	PL SHA 10 40 60	1
100 mm	400 mm	800 mm	110890	PL SHA 10 40 80	1
100 mm	600 mm	400 mm	110891	PL SHA 10 60 40	1
100 mm	600 mm	500 mm	110892	PL SHA 10 60 50	1
100 mm	600 mm	600 mm	110893	PL SHA 10 60 60	1
100 mm	600 mm	800 mm	110894	PL SHA 10 60 80	1
100 mm	800 mm	400 mm	110895	PL SHA 10 80 40	1
100 mm	800 mm	500 mm	110896	PL SHA 10 80 50	1
100 mm	800 mm	600 mm	110897	PL SHA 10 80 60	1
100 mm	800 mm	800 mm	110898	PL SHA 10 80 80	1
100 mm	1000 mm	400 mm	110899	PL SHA 10 100 40	1
100 mm	1000 mm	500 mm	110900	PL SHA 10 100 50	1
100 mm	1000 mm	600 mm	110901	PL SHA 10 100 60	1
100 mm	1000 mm	800 mm	110902	PL SHA 10 100 80	1
100 mm	1200 mm	400 mm	110903	PL SHA 10 120 40	1
100 mm	1200 mm	500 mm	110904	PL SHA 10 120 50	1
100 mm	1200 mm	600 mm	110905	PL SHA 10 120 60	1
100 mm	1200 mm	800 mm	110906	PL SHA 10 120 80	1
200 mm	400 mm	400 mm	110907	PL SHA 20 40 40	1
200 mm	400 mm	600 mm	110908	PL SHA 20 40 60	1
200 mm	400 mm	800 mm	110909	PL SHA 20 40 80	1
200 mm	600 mm	400 mm	110910	PL SHA 20 60 40	1
200 mm	600 mm	600 mm	110911	PL SHA 20 60 60	1
200 mm	600 mm	800 mm	110912	PL SHA 20 60 80	1
200 mm	800 mm	400 mm	110913	PL SHA 20 80 40	1
200 mm	800 mm	600 mm	110914	PL SHA 20 80 60	1
200 mm	800 mm	800 mm	110915	PL SHA 20 80 80	1
200 mm	1000 mm	400 mm	110916	PL SHA 20 100 40	1
200 mm	1000 mm	600 mm	110917	PL SHA 20 100 60	1
200 mm	1000 mm	800 mm	110918	PL SHA 20 100 80	1
200 mm	1200 mm	400 mm	110919	PL SHA 20 120 40	1
200 mm	1200 mm	600 mm	110920	PL SHA 20 120 60	1
200 mm	1200 mm	800 mm	110921	PL SHA 20 120 80	1

Side panels

- Material DIN EN 10130 DC01 CCRS
- 1.5 mm thickness
- Surface is finished by RAL7035w powder coating
- Supply includes carriage slide cupport and fasteners



Height	Depth	Width	Article No.	Type	Packing
1800 mm	400 mm	18 mm	110937	SP SHA 180 40	2
1800 mm	600 mm	18 mm	110938	SP SHA 180 60	2
1800 mm	800 mm	18 mm	110939	SP SHA 180 80	2
2000 mm	400 mm	18 mm	110940	SP SHA 200 40	2
2000 mm	600 mm	18 mm	110941	SP SHA 200 60	2
2000 mm	800 mm	18 mm	110942	SP SHA 200 80	2

Mounting plate

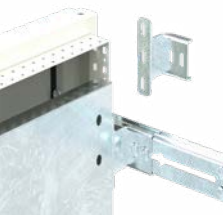
- Material DIN EN 10130 DC01 CCRS
- 2 mm thickness
- Surface is finished by RAL7035w powder coating



Height	Width	Depth	Article No.	Type	Packing
1800 mm	600 mm	30 mm	110944	MBP SHA 180 60	1
1800 mm	800 mm	30 mm	110945	MBP SHA 180 80	1
1800 mm	1000 mm	30 mm	110946	MBP SHA 180 100	1
1800 mm	1200 mm	30 mm	110947	MBP SHA 180 120	1
2000 mm	400 mm	30 mm	110948	MBP SHA 200 40	1
2000 mm	600 mm	30 mm	110949	MBP SHA 200 60	1
2000 mm	800 mm	30 mm	110950	MBP SHA 200 80	1
2000 mm	1000 mm	30 mm	110951	MBP SHA 200 100	1
2000 mm	1200 mm	30 mm	110952	MBP SHA 200 120	1

Mounting plate fixing brackets

- Material DIN EN 10327 DX51D + Z galvanized
- 2 mm thickness
- Supply includes side rail mouting fasteners
- Right and left connection
- MPB F SHA for fix mounting plate



Height	Width	Depth	Article No.	Type	Packing
60 mm	100 mm	60 mm	117521	MPB SHA (N)	1 set
60 mm	100 mm	60 mm	112868	MPB F SHA	1 set

Infill mounting plate

- Material DIN EN 10327 DX51D + Z galvanized
- 2 mm thickness
- Supply includes mounting screws



Height	Width	Depth	Article No.	Type	Packing
1800 mm	100 mm	16 mm	110954	IMP SHA 180	1
2000 mm	100 mm	16 mm	110955	IMP SHA 200	1

Modular stand-alone enclosures **SHA**

Partial mounting plate

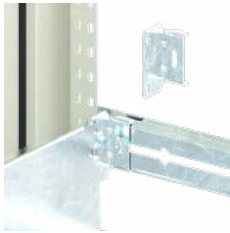
- Material DIN EN 10130 DC01 CCRS
- 1.5 mm thickness for frames and panel, 2mm thickness for door
- Surface is finished by RAL7035w powder coating



Height	Width	Depth	Article No.	Type	Packing
60 mm	600 mm	20 mm	110957	PBP SHA 60 06	1/2
160 mm	600 mm	20 mm	110958	PBP SHA 60 16	1/2
220 mm	600 mm	20 mm	110959	PBP SHA 60 22	1/2
280 mm	600 mm	20 mm	110960	PBP SHA 60 28	1/2
360 mm	600 mm	20 mm	110961	PBP SHA 60 36	1/2
60 mm	800 mm	20 mm	110962	PBP SHA 80 06	1/2
160 mm	800 mm	20 mm	110963	PBP SHA 80 16	1/2
220 mm	800 mm	20 mm	110964	PBP SHA 80 22	1/2
280 mm	800 mm	20 mm	110965	PBP SHA 80 28	1/2
360 mm	800 mm	20 mm	110966	PBP SHA 80 36	1/2
60 mm	1000 mm	20 mm	110967	PBP SHA 100 06	1/2
160 mm	1000 mm	20 mm	110968	PBP SHA 100 16	1/2
220 mm	1000 mm	20 mm	110969	PBP SHA 100 22	1/2
280 mm	1000 mm	20 mm	110970	PBP SHA 100 28	1/2
360 mm	1000 mm	20 mm	110971	PBP SHA 100 36	1/2
60 mm	1200 mm	20 mm	110972	PBP SHA 120 06	1/2
160 mm	1200 mm	20 mm	110973	PBP SHA 120 16	1/2
220 mm	1200 mm	20 mm	110974	PBP SHA 120 22	1/2
280 mm	1200 mm	20 mm	110975	PBP SHA 120 28	1/2
360 mm	1200 mm	20 mm	110976	PBP SHA 120 36	1/2
100 mm	600 mm	20 mm	110977	PBP SHA 60 10	1/2
200 mm	600 mm	20 mm	110978	PBP SHA 60 20	1/2
300 mm	600 mm	20 mm	110979	PBP SHA 60 30	1/2
400 mm	600 mm	20 mm	110980	PBP SHA 60 40	1/2
100 mm	800 mm	20 mm	110981	PBP SHA 80 10	1/2
200 mm	800 mm	20 mm	110982	PBP SHA 80 20	1/2
300 mm	800 mm	20 mm	110983	PBP SHA 80 30	1/2
400 mm	800 mm	20 mm	110984	PBP SHA 80 40	1/2
100 mm	1000 mm	20 mm	110985	PBP SHA 100 10	1/2
200 mm	1000 mm	20 mm	110986	PBP SHA 100 20	1/2
300 mm	1000 mm	20 mm	110987	PBP SHA 100 30	1/2
400 mm	1000 mm	20 mm	110988	PBP SHA 100 40	1/2
100 mm	1200 mm	20 mm	110989	PBP SHA 120 10	1/2
200 mm	1200 mm	20 mm	110990	PBP SHA 120 20	1/2
300 mm	1200 mm	20 mm	110991	PBP SHA 120 30	1/2
400 mm	1200 mm	20 mm	110992	PBP SHA 120 40	1/2

Partial mounting plate fixing brackets - vertical position

- Material DIN EN 10327 DX51D + Z galvanized
- 2 mm thickness
- Supply includes mounting screws



Article No.	Type	Packing
110993	VFB SHA	2

Partial mounting plate fixing brackets - horizontal position

- Material DIN EN 10327 DX51D + Z galvanized
- 2 mm thickness
- Supply includes side rail mounting fasteners



Article No.	Type	Packing
110994	HFB SHA	1/8

Solid door

- Material DIN EN 10130 DC01 CCRS
- 2 mm thickness
- Surface is finished by RAL7035w powder coating
- Supply includes lock and hinges



Height	Width	Depth	Article No.	Type	Packing
1800 mm	400 mm	23 mm	110995	SSD SHA 180 40	1
2000 mm	400 mm	23 mm	110996	SSD SHA 200 40	1
1800 mm	600 mm	23 mm	110997	SSD SHA 180 60	1
2000 mm	600 mm	23 mm	110998	SSD SHA 200 60	1
1800 mm	800 mm	23 mm	110999	SSD SHA 180 80	1
2000 mm	800 mm	23 mm	111000	SSD SHA 200 80	1
1800 mm	1000 mm	23 mm	111001	SSD SHA 180 100	1
2000 mm	1000 mm	23 mm	111002	SSD SHA 200 100	1
1800 mm	1200 mm	23 mm	111003	SSD SHA 180 120	1
2000 mm	1200 mm	23 mm	111004	SSD SHA 200 120	1

Glazed door

- Material: DIN EN 10130 DC01 CCRS and 4mm tempered glass
- 2 mm thickness
- Surface is finished by RAL7035w powder coating
- Supply includes lock and hinges



Height	Width	Depth	Article No.	Type	Packing
1800 mm	400 mm	23 mm	111005	GSD SHA 180 40	1
2000 mm	400 mm	23 mm	111006	GSD SHA 200 40	1
1800 mm	600 mm	23 mm	111007	GSD SHA 180 60	1
2000 mm	600 mm	23 mm	111008	GSD SHA 200 60	1
1800 mm	800 mm	23 mm	111009	GSD SHA 180 80	1
2000 mm	800 mm	23 mm	111010	GSD SHA 200 80	1

Rain canopy

- Material DIN EN 10130 DC01 CCRS
- 1.2 mm thickness
- Surface is finished by RAL7035w powder coating
- Supply includes mounting screws

Width	Depth	Depth	Article No.	Type	Packing
400 mm	400 mm	90 mm	111011	RC SHA 40 40	1
400 mm	600 mm	90 mm	111012	RC SHA 40 60	1
400 mm	840 mm	90 mm	111013	RC SHA 40 80	1
600 mm	400 mm	90 mm	111014	RC SHA 60 40	1
600 mm	600 mm	90 mm	111015	RC SHA 60 60	1
600 mm	800 mm	90 mm	111016	RC SHA 60 80	1
800 mm	400 mm	90 mm	111017	RC SHA 80 40	1
800 mm	600 mm	90 mm	111018	RC SHA 80 60	1
800 mm	800 mm	90 mm	111019	RC SHA 80 80	1
1000 mm	400 mm	90 mm	111020	RC SHA 100 40	1
1000 mm	600 mm	90 mm	111021	RC SHA 100 60	1
1000 mm	800 mm	90 mm	111022	RC SHA 100 80	1
1200 mm	400 mm	90 mm	111023	RC SHA 120 40	1
1200 mm	600 mm	90 mm	111024	RC SHA 120 60	1
1200 mm	800 mm	90 mm	111025	RC SHA 120 80	1

Cover plate profiles

- Material DIN EN 10130 DC01 CCRS
- 1.5 mm thickness
- Surface is finished by RAL7035w powder coating
- Supply includes mounting fasteners; one set includes left and right profile

Height	Width	Depth	Article No.	Type	Packing
1800 mm	75 mm	40 mm	112837	SC SHA 180 N	1 set
2000 mm	75 mm	40 mm	112838	SC SHA 200 N	1 set

Cover plates

- Material DIN EN 10130 DC01 CCRS
- 0.9 mm thickness
- Surface is finished by RAL7035w powder coating
- With standard precut for modular devices or plain
- Supply includes cover plate profile mounting screws, plastic nuts and handles

Height	Width	Modules	Article No.	Type	Packing
150 mm	600 mm	22	112839	CP SHA 15 60 N	1
150 mm	800 mm	33	112840	CP SHA 15 80 N	1
25 mm	600 mm	-	112841	CPP SHA 02 60 N	1
100 mm	600 mm	-	112842	CPP SHA 10 60 N	1
150 mm	600 mm	-	112843	CPP SHA 15 60 N	1
200 mm	600 mm	-	112844	CPP SHA 20 60 N	1
300 mm	600 mm	-	112845	CPP SHA 30 60 N	1
400 mm	600 mm	-	112846	CPP SHA 40 60 N	1
500 mm	600 mm	-	112847	CPP SHA 50 60 N	1
25 mm	800 mm	-	112848	CPP SHA 02 80 N	1
100 mm	800 mm	-	112849	CPP SHA 10 80 N	1
150 mm	800 mm	-	112850	CPP SHA 15 80 N	1
200 mm	800 mm	-	112851	CPP SHA 20 80 N	1
300 mm	800 mm	-	112852	CPP SHA 30 80 N	1
400 mm	800 mm	-	112853	CPP SHA 40 80 N	1
500 mm	800 mm	-	112854	CPP SHA 50 80 N	1
25 mm	100 mm	-	112855	CPP SHA 02 100 N	1
200 mm	1000 mm	-	112856	CPP SHA 20 100 N	1
300 mm	1000 mm	-	112857	CPP SHA 30 100 N	1
400 mm	1000 mm	-	112858	CPP SHA 40 100 N	1
500 mm	1000 mm	-	112859	CPP SHA 50 100 N	1
25 mm	1200 mm	-	112860	CPP SHA 02 120 N	1
200 mm	1200 mm	-	112861	CPP SHA 20 120 N	1
300 mm	1200 mm	-	112862	CPP SHA 30 120 N	1
400 mm	1200 mm	-	112863	CPP SHA 40 120 N	1
500 mm	1200 mm	-	112864	CPP SHA 50 120 N	1

Joining set

- Material DIN EN 10025 S235 JR
- 5 mm thickness
- Surface is finished by Z coated Cr¹³ passivation
- Supply includes 2pcs lifting and joining profiles and fasteners, 10m 10x3mm EPDM gasket and frame fasteners
- M12 connection
- 25 mm diameter

Article No.	Type	Packing
111056	JS SHA	1

Modular stand-alone enclosures **SHA**

Eye bolts

- Material C15E Forged steel
- Surface is finished by Z coated Cr³ passivation
- DIN 580 standards
- M12 connection
- Eye bolt diameter is 30mm
- 1 set = 4 pcs

	Article No.	Type	Packing
	111057	EB SHA	1 set

Infill depth profiles

- Material DIN EN 10327 DX51D + Z galvanized
- 2 mm thickness
- Supply includes mounting screws

	Depth	Height	Width	Article No.	Type	Packing
	400 mm	29 mm	12 mm	111058	IP SHA 40	1/2
	600 mm	29 mm	12 mm	111059	IP SHA 60	1/2
	800 mm	29 mm	12 mm	111060	IP SHA 80	1/2

Side rails

- Material DIN EN 10327 DX51D + Z galvanized
- 1.5 mm thickness
- Supply includes mounting screws

	Depth	Height	Width	Article No.	Type	Packing
	400 mm	37 mm	15 mm	111061	SR SHA 40	2
	600 mm	37 mm	15 mm	111062	SR SHA 60	2
	800 mm	37 mm	15 mm	111063	SR SHA 80	2

Modular stand-alone enclosures **SHA**

U profile

- Material DIN EN 10327 DX51D + Z galvanized
- 2 mm thickness
- Supply includes mounting screws

	Depth	Height	Width	Article No.	Type	Packing
	600 mm	39 mm	25 mm	111064	UP SHA 60	2
	800 mm	39 mm	25 mm	111065	UP SHA 80	2
	1000 mm	39 mm	25 mm	111066	UP SHA 1000	2
	1200 mm	39 mm	25 mm	111067	UP SHA 1200	2

Busbar & depth profiles

- Material DIN EN 10327 DX51D + Z galvanized
- 2 mm thickness
- Supply includes mounting screws

	Depth	Height	Width	Article No.	Type	Packing
	400 mm	40 mm	50 mm	111068	BB SHA 40	2
	600 mm	40 mm	50 mm	111069	BB SHA 60	2
	800 mm	40 mm	50 mm	111070	BB SHA 80	2

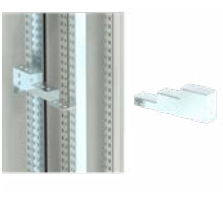
Notched busbar & depth profiles

- Material DIN EN 10327 DX51D + Z galvanized
- 2 mm thickness
- Left or right (described in Type)
- Supply includes mounting screws

	Depth	Height	Width	Article No.	Type	Packing
	400 mm	40 mm	50 mm	111071	NBL SHA 40	1/2
	400 mm	40 mm	50 mm	111072	NBR SHA 40	1/2
	600 mm	40 mm	50 mm	111073	NBL SHA 60	1/2
	600 mm	40 mm	50 mm	111074	NBR SHA 60	1/2
	800 mm	40 mm	50 mm	111075	NBL SHA 80	1/2
	800 mm	40 mm	50 mm	111076	NBR SHA 80	1/2

Ladder busbar profiles

- Material DIN EN 10327 DX51D + Z galvanized
- 2 mm thickness
- Left or right (described in Type)
- Supply includes mounting screws

	Depth	Height	Width	Article No.	Type	Packing
	400 mm	70 mm	50 mm	111077	LBL SHA 40	1/2
	400 mm	70 mm	50 mm	111078	LBR SHA 40	1/2
	600 mm	70 mm	50 mm	111079	LBL SHA 60	1/2
	600 mm	70 mm	50 mm	111080	LBR SHA 60	1/2
	800 mm	70 mm	50 mm	111081	LBL SHA 80	1/2
	800 mm	70 mm	50 mm	111082	LBR SHA 80	1/2

L Bracket

- Material DIN EN 10327 DX51D + Z galvanized
- 2 mm thickness
- Left or right (described in Type)
- Supply includes mounting screws



Depth	Height	Width	Article No.	Type	Packing
30 mm	55 mm	42 mm	111083	LBL SHA 42 30	1/8
30 mm	55 mm	42 mm	111084	LBR SHA 42 30	1/8
50 mm	55 mm	42 mm	111085	LBL SHA 42 50	1/8
50 mm	55 mm	42 mm	111086	LBR SHA 42 50	1/8
90 mm	55 mm	42 mm	111087	LBL SHA 42 90	1/8
90 mm	55 mm	42 mm	111088	LBR SHA 42 90	1/8

Z Bracket

- Material DIN EN 10327 DX51D + Z galvanized
- 2 mm thickness
- Left or right (described in Type)
- Supply includes mounting screws



Depth	Height	Width	Article No.	Type	Packing
58 mm	55 mm	30 mm	111089	ZBL SHA 30 30	1/3
58 mm	55 mm	30 mm	111090	ZBR SHA 30 30	1/3

Z Profile

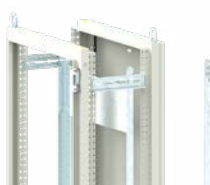
- Material DIN EN 10327 DX51D + Z galvanized
- 2 mm thickness
- Supply includes mounting screws



Width	Height	Depth	Article No.	Type	Packing
400 mm	38 mm	22 mm	111096	ZP SHA 40	1
600 mm	38 mm	22 mm	111097	ZP SHA 60	1
800 mm	38 mm	22 mm	111098	ZP SHA 80	1
1000 mm	38 mm	22 mm	111099	ZP SHA 100	1
1200 mm	38 mm	22 mm	111100	ZP SHA 120	1

L Profile

- Material DIN EN 10327 DX51D + Z galvanized
- 1.5 mm thickness
- Supply includes mounting fasteners
- 1 set = 2 pcs



Height	Width	Depth	Article No.	Type	Packing
1800 mm	41.5 mm	30 mm	111101	LP SHA 180	1 set
2000 mm	41.5 mm	30 mm	111102	LP SHA 200	1 set

Depth partition profile

- Material DIN EN 10327 DX51D + Z galvanized
- 2 mm thickness
- Supply includes mounting screws
- 1 set = 2 pcs



Height	Width	Depth	Article No.	Type	Packing
800 mm	89 mm	109 mm	112865	DPP SHA 180 N	1 set
2000 mm	89 mm	109 mm	112866	DPP SHA 200 N	1 set

Partition profile

- Material DIN EN 10327 DX51D + Z galvanized
- 2 mm thickness
- Supply includes frame fasteners
- 1 set = 2 pcs



Height	Width	Depth	Article No.	Type	Packing
1800 mm	42 mm	40 mm	111105	PP SHA 180	1 set
2000 mm	42 mm	40 mm	111106	PP SHA 200	1 set

Adjustable shelf

- Material DIN EN 10130 DC01 CCRS
- 1.5 mm thickness
- Surface is finished by RAL7035w powder coating
- Supply includes mounting fasteners

	Width	Depth	Height	Article No.	Type	Packing
	600 mm	400 mm	30 mm	111107	AS SHA 60 40	1/2
	600 mm	600 mm	30 mm	111108	AS SHA 60 60	1/2
	600 mm	800 mm	30 mm	111109	AS SHA 60 80	1/2
	800 mm	400 mm	30 mm	111110	AS SHA 80 40	1/2
	800 mm	600 mm	30 mm	111111	AS SHA 80 60	1/2
	800 mm	800 mm	30 mm	111112	AS SHA 80 80	1/2

Pull out shelf

- Material DIN EN 10130 DC01 CCRS
- 1.5 mm thickness
- Surface is finished by RAL7035w powder coating
- Supply includes shelf, pull out side rails, connection profiles and mounting fasteners

	Width	Depth	Height	Article No.	Type	Packing
	600 mm	400 mm	30 mm	111113	POL SHA 60 40	1/2
	600 mm	600 mm	30 mm	111114	POL SHA 60 60	1/2
	600 mm	800 mm	30 mm	111115	POL SHA 60 80	1/2
	800 mm	400 mm	30 mm	111116	POL SHA 80 40	1/2
	800 mm	600 mm	30 mm	111117	POL SHA 80 60	1/2
	800 mm	800 mm	30 mm	111118	POL SHA 80 80	1/2

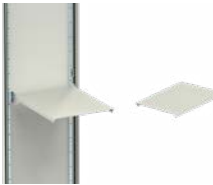
Plan pockets A4/A3

- Material DIN EN 10130 DC01 CCRS
- 1.5 mm thickness
- Surface is finished by RAL7035w powder coating
- Supply includes mounting fasteners to fix door reinforcement frame

	Width	Depth	Height	Article No.	Type	Packing
	all	200 mm	30 mm	111119	PP SHA A4	1/10
	600/1200 mm	240 mm	60 mm	111120	PP SHA A3	1/6
	800 mm	240 mm	60 mm	111121	PP SHA A3A	1/6

Laptop tray

- Material DIN EN 10130 DC01 CCRS
- 2 mm thickness
- Surface is finished by RAL7035w powder coating
- Supply includes laptop tray, mounting fasteners to fix to door reinforcement frame

	Width	Depth	Height	Article No.	Type	Packing
	600 mm	365 mm	70 mm	111122	LT SHA 60	1
	800 mm	365 mm	70 mm	111123	LT SHA 80	1
	1000 mm	365 mm	70 mm	111124	LT SHA 100	1

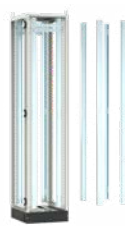
Swing frame

- Material DIN EN 10130 DC01 CCRS and DIN EN 10327 DX51D + Z galvanized
- 2 mm thickness
- Surface is finished by RAL7035w powder coating
- Supply includes mounting fasteners

	Height	Width	Depth	Article No.	Type	Packing
	1800 mm	600 mm	70 mm	111125	SF SHA 60 36U	1
	2000 mm	600 mm	70 mm	111126	SF SHA 60 40U	1
	1800 mm	800 mm	70 mm	111127	SF SHA 80 36U	1
	2000 mm	800 mm	70 mm	111128	SF SHA 80 40U	1

19“ Profiles

- Material DIN EN 10327 DX51D + Z galvanized
- 1.5 mm thickness
- 1 set = 2 pcs

	Height	Width	Depth	Article No.	Type	Packing
	1800 mm	130 mm	50 mm	111129	CP SHA 180 39U	1 set
	2000 mm	130 mm	50 mm	111130	CP SHA 180 43U	1 set

SHA lock systems EK333

- Spare lock mechanism



Article No.	Type	Packing
111131	LS SHA	1/100

SHA hinges

- Spare hinges for SHA enclosures



Article No.	Type	Packing
112867	HI SHA N	1/50

Hinge for cover plate

- Hinge for creating hinged cover plates
- ZAMAK M5



Article No.	Type	Packing
111134	HCP SHA	1/50

Lock for cover plates

- Additional lock for hinged cover plates
- Plastic lock with metal tongue
- KY69.1.5.14 (7x23)



Article No.	Type	Packing
111133	LFC SHA	1/100

Earthing cables

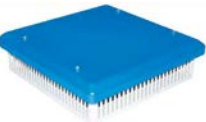
- Materials of the cable are nickel plated, braided copper conductor
- 16 mm² cross sections
- M8-M8 connection



Length	Article No.	Type	Packing
275 mm	111135	EC SHA 275	1/50
350 mm	111136	EC SHA 350	1/50

Roof mounted fan units

- Roof ventilation system
- 230 V AC / 50Hz
- Air flow 650 or 860 m³/h
- Dimensions (H x W x D) - 100 x 350 x 350 mm



Air flow	Power	Noise level	Article No.	Type	Packing
650 m ³ /h	65 W	68 dB	111137	RMF SHA 650	1
860 m ³ /h	100 W	73 dB	111138	RMF SHA 860	1

Busbar support 3P and 4P, 2 bars/pole

- Isolators between flat busbars



Height	Width	Depth	Article No.	Type	Packing
40 mm	340 mm	42 mm	111139	BBS SHA 3P	1/2
40 mm	440 mm	42 mm	111140	BBS SHA 4P	1/2

NOTES

Monobloc stand-alone enclosures **MSA**



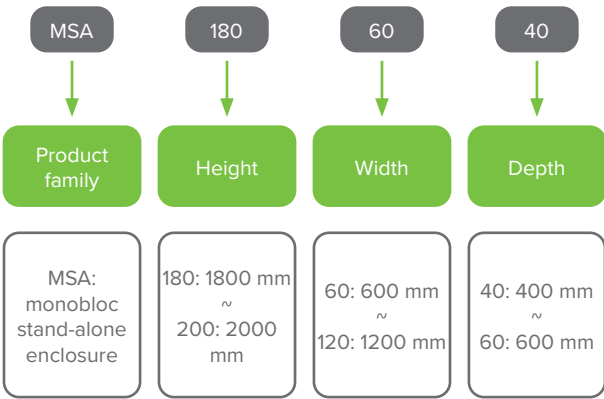
- Monobloc stand-alone enclosures with high protection degree MSA
- According to IEC/EN 62208 standard
- IP65 protection degree (EN 60529)
- Multiple mounting plate possibility
- Foamed-in door/rear panel PU sealing gasket
- Swing-handle polyamide lock (3 points locking, 333 key)
- Folded and welded monobloc body
- Plinth and cover options

Monobloc stand-alone enclosure MSA are suitable for industrial and commercial applications. MSA has full welded body and reliable sealing gasket on a door and other parts of the body which it is a reason of high protection degree IP65.

Monobloc system is based on fully welded body from which you expect maximum robustness and higher degree of protection. Many dimensional variants are available in two height versions of 1800 and 2000 mm; width from 600 to 1200 mm and depth 400 up to 600 mm. MSA have high quality sheet steel of proper thickness as a standard.

We offer complementary accessories as rain canopy, door inside mounting profile, partial mounting plate, carriage depth slide and support, L profile, U profile, Z profile, L brackers, Z brackets, plan pocket, earthing cable. Accessories for MSA and SHA are compatible.

Type Key



Certification marks



Monobloc stand-alone enclosures MSA

- Fully welded body and reliable sealing gasket on a door and other parts of the body
- High degree of protection IP65
- Surface is finished by RAL7035w powder coating
- Supply includes base frame, rear panel, front door and 4/6 pcs side rails
- NOT INCLUDED: plinth and mounting plate (for complete usable enclosure)
- We deliver the products either assembled or disassembled, depending on your needs
- For more information, please contact our sales representative



Height	Width	Depth	Article No.	Type	Packing
1800 mm	600 mm	400 mm	110864	MSA 180 60 40	1
1800 mm	600 mm	500 mm	110865	MSA 180 60 50	1
1800 mm	600 mm	600 mm	110866	MSA 180 60 60	1
1800 mm	800 mm	400 mm	110867	MSA 180 80 40	1
1800 mm	800 mm	500 mm	110868	MSA 180 80 50	1
1800 mm	800 mm	600 mm	110869	MSA 180 80 60	1
1800 mm	1000 mm	400 mm	110870	MSA 180 100 40	1
1800 mm	1000 mm	500 mm	110871	MSA 180 100 50	1
1800 mm	1000 mm	600 mm	110872	MSA 180 100 60	1
1800 mm	1200 mm	400 mm	110873	MSA 180 120 40	1
1800 mm	1200 mm	500 mm	110874	MSA 180 120 50	1
1800 mm	1200 mm	600 mm	110875	MSA 180 120 60	1
2000 mm	600 mm	400 mm	110876	MSA 200 60 40	1
2000 mm	600 mm	500 mm	110877	MSA 200 60 50	1
2000 mm	600 mm	600 mm	110878	MSA 200 60 60	1
2000 mm	800 mm	400 mm	110879	MSA 200 80 40	1
2000 mm	800 mm	500 mm	110880	MSA 200 80 50	1
2000 mm	800 mm	600 mm	110881	MSA 200 80 60	1
2000 mm	1000 mm	400 mm	110882	MSA 200 100 40	1
2000 mm	1000 mm	500 mm	110883	MSA 200 100 50	1
2000 mm	1000 mm	600 mm	110884	MSA 200 100 60	1
2000 mm	1200 mm	400 mm	110885	MSA 200 120 40	1
2000 mm	1200 mm	500 mm	110886	MSA 200 120 50	1
2000 mm	1200 mm	600 mm	110887	MSA 200 120 60	1

Bottom cover plate

- Material DIN EN 10130 DC01 CCRS
- 2 mm thickness
- Surface is finished by RAL7035w powder coating
- Supply includes bottom cover plates fasteners



Width	Depth	Height	Article No.	Type	Packing
600 mm	400 mm	2 mm	110925	PL SHA 60 40	1
600 mm	600 mm	2 mm	110926	PL SHA 60 60	1
800 mm	400 mm	2 mm	110928	PL SHA 80 40	1
800 mm	600 mm	2 mm	110929	PL SHA 80 60	1
1000 mm	400 mm	2 mm	110931	PL SHA 100 40	1
1000 mm	600 mm	2 mm	110932	PL SHA 100 60	1
1200 mm	400 mm	2 mm	110934	PL SHA 120 40	1
1200 mm	600 mm	2 mm	110935	PL SHA 120 60	1

Plinth

- Material DIN EN 10130 DC01 CCRS
- 2 mm thickness
- Surface is finished by RAL7035w powder coating
- Supply includes cover plates, mounting screws and plinth mounting fasteners



Height	Width	Depth	Article No.	Type	Packing
100 mm	600 mm	400 mm	110891	PL SHA 10 60 40	1
100 mm	600 mm	500 mm	110892	PL SHA 10 60 50	1
100 mm	600 mm	600 mm	110893	PL SHA 10 60 60	1
100 mm	800 mm	400 mm	110895	PL SHA 10 80 40	1
100 mm	800 mm	500 mm	110896	PL SHA 10 80 50	1
100 mm	800 mm	600 mm	110897	PL SHA 10 80 60	1
100 mm	1000 mm	400 mm	110899	PL SHA 10 100 40	1
100 mm	1000 mm	500 mm	110900	PL SHA 10 100 50	1
100 mm	1000 mm	600 mm	110901	PL SHA 10 100 60	1
100 mm	1200 mm	400 mm	110903	PL SHA 10 120 40	1
100 mm	1200 mm	500 mm	110904	PL SHA 10 120 50	1
100 mm	1200 mm	600 mm	110905	PL SHA 10 120 60	1
200 mm	600 mm	400 mm	110910	PL SHA 20 60 40	1
200 mm	600 mm	600 mm	110911	PL SHA 20 60 60	1
200 mm	800 mm	400 mm	110913	PL SHA 20 80 40	1
200 mm	800 mm	600 mm	110914	PL SHA 20 80 60	1
200 mm	1000 mm	400 mm	110916	PL SHA 20 100 40	1
200 mm	1000 mm	600 mm	110917	PL SHA 20 100 60	1
200 mm	1200 mm	400 mm	110919	PL SHA 20 120 40	1
200 mm	1200 mm	600 mm	110920	PL SHA 20 120 60	1

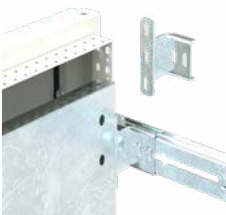
Mounting plate

- Material DIN EN 10130 DC01 CCRS
- 2 mm thickness
- Surface is finished by RAL7035w powder coating

	Height	Width	Depth	Article No.	Type	Packing
	1800 mm	600 mm	30 mm	110944	MBP SHA 180 60	1
	1800 mm	800 mm	30 mm	110945	MBP SHA 180 80	1
	1800 mm	1000 mm	30 mm	110946	MBP SHA 180 100	1
	1800 mm	1200 mm	30 mm	110947	MBP SHA 180 120	1
	2000 mm	400 mm	30 mm	110948	MBP SHA 200 40	1
	2000 mm	600 mm	30 mm	110949	MBP SHA 200 60	1
	2000 mm	800 mm	30 mm	110950	MBP SHA 200 80	1
	2000 mm	1000 mm	30 mm	110951	MBP SHA 200 100	1
	2000 mm	1200 mm	30 mm	110952	MBP SHA 200 120	1

Mounting plate fixing brackets

- Material DIN EN 10327 DX51D + Z galvanized
- 2 mm thickness
- Supply includes side rail mouting fasteners
- Right and left connection
- MPB F SHA for fix mounting plate

	Height	Width	Depth	Article No.	Type	Packing
	60 mm	100 mm	60 mm	117521	MPB SHA (N)	1 set
	60 mm	100 mm	60 mm	112868	MPB F SHA	1 set

Partial mounting plate

- Material DIN EN 10327 DX51D + Z galvanized
- 2mm thickness
- Supply includes mounting screws

	Height	Width	Depth	Article No.	Type	Packing
	60 mm	600 mm	20 mm	110957	PBP SHA 60 06	1/2
	160 mm	600 mm	20 mm	110958	PBP SHA 60 16	1/2
	220 mm	600 mm	20 mm	110959	PBP SHA 60 22	1/2
	280 mm	600 mm	20 mm	110960	PBP SHA 60 28	1/2
	360 mm	600 mm	20 mm	110961	PBP SHA 60 36	1/2
	60 mm	800 mm	20 mm	110962	PBP SHA 80 06	1/2
	160 mm	800 mm	20 mm	110963	PBP SHA 80 16	1/2
	220 mm	800 mm	20 mm	110964	PBP SHA 80 22	1/2
	280 mm	800 mm	20 mm	110965	PBP SHA 80 28	1/2
	360 mm	800 mm	20 mm	110966	PBP SHA 80 36	1/2
	60 mm	1000 mm	20 mm	110967	PBP SHA 100 06	1/2
	160 mm	1000 mm	20 mm	110968	PBP SHA 100 16	1/2
	220 mm	1000 mm	20 mm	110969	PBP SHA 100 22	1/2
	280 mm	1000 mm	20 mm	110970	PBP SHA 100 28	1/2
	360 mm	1000 mm	20 mm	110971	PBP SHA 100 36	1/2
	60 mm	1200 mm	20 mm	110972	PBP SHA 120 06	1/2
	160 mm	1200 mm	20 mm	110973	PBP SHA 120 16	1/2
	220 mm	1200 mm	20 mm	110974	PBP SHA 120 22	1/2
	280 mm	1200 mm	20 mm	110975	PBP SHA 120 28	1/2
	360 mm	1200 mm	20 mm	110976	PBP SHA 120 36	1/2
	100 mm	600 mm	20 mm	110977	PBP SHA 60 10	1/2
	200 mm	600 mm	20 mm	110978	PBP SHA 60 20	1/2
	300 mm	600 mm	20 mm	110979	PBP SHA 60 30	1/2
	400 mm	600 mm	20 mm	110980	PBP SHA 60 40	1/2
	100 mm	800 mm	20 mm	110981	PBP SHA 80 10	1/2
	200 mm	800 mm	20 mm	110982	PBP SHA 80 20	1/2
	300 mm	800 mm	20 mm	110983	PBP SHA 80 30	1/2
	400 mm	800 mm	20 mm	110984	PBP SHA 80 40	1/2
	100 mm	1000 mm	20 mm	110985	PBP SHA 100 10	1/2
	200 mm	1000 mm	20 mm	110986	PBP SHA 100 20	1/2
	300 mm	1000 mm	20 mm	110987	PBP SHA 100 30	1/2
	400 mm	1000 mm	20 mm	110988	PBP SHA 100 40	1/2
	100 mm	1200 mm	20 mm	110989	PBP SHA 120 10	1/2
	200 mm	1200 mm	20 mm	110990	PBP SHA 120 20	1/2
	300 mm	1200 mm	20 mm	110991	PBP SHA 120 30	1/2
	400 mm	1200 mm	20 mm	110992	PBP SHA 120 40	1/2

Partial mounting plate fixing brackets - vertical position

- Material DIN EN 10327 DX51D + Z galvanized
- 2 mm thickness
- Supply includes mounting screws

	Article No.	Type	Packing
	110993	VFB SHA	2

Partial mounting plate fixing brackets - horizontal position

- Material DIN EN 10327 DX51D + Z galvanized
- 2 mm thickness
- Supply includes side rail mounting fasteners



Article No.	Type	Packing
110994	HFB SHA	1/8

Solid door

- Material DIN EN 10130 DC01 CCRS
- 2 mm thickness
- Surface is finished by RAL7035w powder coating
- Supply includes lock and hinges



Height	Width	Depth	Article No.	Type	Packing
1800 mm	400 mm	23 mm	110995	SSD SHA 180 40	1
2000 mm	400 mm	23 mm	110996	SSD SHA 200 40	1
1800 mm	600 mm	23 mm	110997	SSD SHA 180 60	1
2000 mm	600 mm	23 mm	110998	SSD SHA 200 60	1
1800 mm	800 mm	23 mm	110999	SSD SHA 180 80	1
2000 mm	800 mm	23 mm	111000	SSD SHA 200 80	1
1800 mm	1000 mm	23 mm	111001	SSD SHA 180 100	1
2000 mm	1000 mm	23 mm	111002	SSD SHA 200 100	1
1800 mm	1200 mm	23 mm	111003	SSD SHA 180 120	1
2000 mm	1200 mm	23 mm	111004	SSD SHA 200 120	1

Glazed door

- Material: DIN EN 10130 DC01 CCRS and 4mm tempered glass
- 2 mm thickness
- Surface is finished by RAL7035w powder coating
- Supply includes lock and hinges



Height	Width	Depth	Article No.	Type	Packing
1800 mm	600 mm	23 mm	111007	GSD SHA 180 60	1
2000 mm	600 mm	23 mm	111008	GSD SHA 200 60	1
1800 mm	800 mm	23 mm	111009	GSD SHA 180 80	1
2000 mm	800 mm	23 mm	111010	GSD SHA 200 80	1

Rain canopy

- Material DIN EN 10130 DC01 CCRS
- 1.2 mm thickness
- Surface is finished by RAL7035w powder coating
- Supply includes mounting screws



Width	Depth	Depth	Article No.	Type	Packing
400 mm	400 mm	90 mm	111011	RC SHA 40 40	1
400 mm	600 mm	90 mm	111012	RC SHA 40 60	1
400 mm	840 mm	90 mm	111013	RC SHA 40 80	1
600 mm	400 mm	90 mm	111014	RC SHA 60 40	1
600 mm	600 mm	90 mm	111015	RC SHA 60 60	1
600 mm	800 mm	90 mm	111016	RC SHA 60 80	1
800 mm	400 mm	90 mm	111017	RC SHA 80 40	1
800 mm	600 mm	90 mm	111018	RC SHA 80 60	1
800 mm	800 mm	90 mm	111019	RC SHA 80 80	1
1000 mm	400 mm	90 mm	111020	RC SHA 100 40	1
1000 mm	600 mm	90 mm	111021	RC SHA 100 60	1
1000 mm	800 mm	90 mm	111022	RC SHA 100 80	1
1200 mm	400 mm	90 mm	111023	RC SHA 120 40	1
1200 mm	600 mm	90 mm	111024	RC SHA 120 60	1
1200 mm	800 mm	90 mm	111025	RC SHA 120 80	1

Cover plate profiles

- Material DIN EN 10130 DC01 CCRS
- 1.5 mm thickness
- Surface is finished by RAL7035w powder coating
- Supply includes mounting fasteners; one set includes left and right profile



Height	Width	Depth	Article No.	Type	Packing
1800 mm	75 mm	40 mm	112837	SC SHA 180 N	1 set
2000 mm	75 mm	40 mm	112838	SC SHA 200 N	1 set

Cover plates

- Material DIN EN 10130 DC01 CCRS
- 0.9 mm thickness
- Surface is finished by RAL7035w powder coating
- With standard precut for modular devices or plain
- Supply includes cover plate profile mounting screws, plastic nuts and handles



Height	Width	Modules	Article No.	Type	Packing
150 mm	600 mm	22	112839	CP SHA 15 60 N	1
150 mm	800 mm	33	112840	CP SHA 15 80 N	1
25 mm	600 mm	-	112841	CPP SHA 02 60 N	1
100 mm	600 mm	-	112842	CPP SHA 10 60 N	1
150 mm	600 mm	-	112843	CPP SHA 15 60 N	1
200 mm	600 mm	-	112844	CPP SHA 20 60 N	1
300 mm	600 mm	-	112845	CPP SHA 30 60 N	1
400 mm	600 mm	-	112846	CPP SHA 40 60 N	1
500 mm	600 mm	-	112847	CPP SHA 50 60 N	1
25 mm	800 mm	-	112848	CPP SHA 02 80 N	1
100 mm	800 mm	-	112849	CPP SHA 10 80 N	1
150 mm	800 mm	-	112850	CPP SHA 15 80 N	1
200 mm	800 mm	-	112851	CPP SHA 20 80 N	1
300 mm	800 mm	-	112852	CPP SHA 30 80 N	1
400 mm	800 mm	-	112853	CPP SHA 40 80 N	1
500 mm	800 mm	-	112854	CPP SHA 50 80 N	1
25 mm	1000 mm	-	112855	CPP SHA 02 100 N	1
200 mm	1000 mm	-	112856	CPP SHA 20 100 N	1
300 mm	1000 mm	-	112857	CPP SHA 30 100 N	1
400 mm	1000 mm	-	112858	CPP SHA 40 100 N	1
500 mm	1000 mm	-	112859	CPP SHA 50 100 N	1
25 mm	1200 mm	-	112860	CPP SHA 02 120 N	1
200 mm	1200 mm	-	112861	CPP SHA 20 120 N	1
300 mm	1200 mm	-	112862	CPP SHA 30 120 N	1
400 mm	1200 mm	-	112863	CPP SHA 40 120 N	1
500 mm	1200 mm	-	112864	CPP SHA 50 120 N	1

Eye bolts

- Material C15E Forged steel
- Surface is finished by Z coated Cr+3 passivation
- DIN 580 standards
- M12 connection
- Eye bolt diameter is 30mm
- 1 set = 4 pcs



Article No.	Type	Packing
111057	EB SHA	1 set

Infill depth profiles

- Material DIN EN 10327 DX51D + Z galvanized
- 2 mm thickness
- Supply includes mounting screws



Depth	Height	Width	Article No.	Type	Packing
400 mm	29 mm	12 mm	111058	IP SHA 40	1/2
600 mm	29 mm	12 mm	111059	IP SHA 60	1/2

U profile

- Material DIN EN 10327 DX51D + Z galvanized
- 2 mm thickness
- Supply includes mounting screws



Width	Height	Depth	Article No.	Type	Packing
600 mm	39 mm	25 mm	111064	UP SHA 60	2
800 mm	39 mm	25 mm	111065	UP SHA 80	2
1000 mm	39 mm	25 mm	111066	UP SHA 1000	2
1200 mm	39 mm	25 mm	111067	UP SHA 1200	2

Busbar & depth profiles

- Material DIN EN 10327 DX51D + Z galvanized
- 2 mm thickness
- Supply includes mounting screws



Depth	Height	Width	Article No.	Type	Packing
400 mm	40 mm	50 mm	111068	BB SHA 40	2
600 mm	40 mm	50 mm	111069	BB SHA 60	2

Notched busbar & depth profiles

- Material DIN EN 10327 DX51D + Z galvanized
- 2 mm thickness
- Left or right (described in Type)
- Supply includes mounting screws



Depth	Height	Width	Article No.	Type	Packing
400 mm	40 mm	50 mm	111071	NBL SHA 40	1/2
400 mm	40 mm	50 mm	111072	NBR SHA 40	1/2
600 mm	40 mm	50 mm	111073	NBL SHA 60	1/2
600 mm	40 mm	50 mm	111074	NBR SHA 60	1/2

Ladder busbar profiles

- Material DIN EN 10327 DX51D + Z galvanized
- 2 mm thickness
- Left or right (described in Type)
- Supply includes mounting screws



Depth	Height	Width	Article No.	Type	Packing
400 mm	70 mm	50 mm	111077	LBL SHA 40	1/2
400 mm	70 mm	50 mm	111078	LBR SHA 40	1/2
600 mm	70 mm	50 mm	111079	LBL SHA 60	1/2
600 mm	70 mm	50 mm	111080	LBR SHA 60	1/2

L Bracket

- Material DIN EN 10327 DX51D + Z galvanized
- 2 mm thickness
- Left or right (described in Type)
- Supply includes mounting screws



Depth	Height	Width	Article No.	Type	Packing
0 mm	55 mm	42 mm	111083	LBL SHA 42 30	1/8
30 mm	55 mm	42 mm	111084	LBR SHA 42 30	1/8
50 mm	55 mm	42 mm	111085	LBL SHA 42 50	1/8
50 mm	55 mm	42 mm	111086	LBR SHA 42 50	1/8
90 mm	55 mm	42 mm	111087	LBL SHA 42 90	1/8
90 mm	55 mm	42 mm	111088	LBR SHA 42 90	1/8

Z Bracket

- Material DIN EN 10327 DX51D + Z galvanized
- 2 mm thickness
- Left or right (described in Type)
- Supply includes mounting screws



Depth	Height	Width	Article No.	Type	Packing
58 mm	55 mm	30 mm	111089	ZBL SHA 30 30	1/3
58 mm	55 mm	30 mm	111090	ZBR SHA 30 30	1/3

Monobloc stand-alone enclosures

MSA

Z Profile

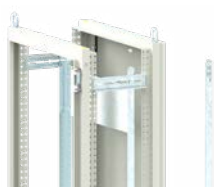
- Material DIN EN 10327 DX51D + Z galvanized
- 2 mm thickness
- Supply includes mounting screws



Width	Height	Depth	Article No.	Type	Packing
600 mm	38 mm	22 mm	111097	ZP SHA 60	1
800 mm	38 mm	22 mm	111098	ZP SHA 80	1
1000 mm	38 mm	22 mm	111099	ZP SHA 100	1
1200 mm	38 mm	22 mm	111100	ZP SHA 120	1

L Profile

- Material DIN EN 10327 DX51D + Z galvanized
- 1.5 mm thickness
- Supply includes mounting fasteners
- 1 set = 2 pcs



Height	Width	Depth	Article No.	Type	Packing
1800 mm	41.5 mm	30 mm	111101	LP SHA 180	1 set
2000 mm	41.5 mm	30 mm	111102	LP SHA 200	1 set

Depth partition profile

- Material DIN EN 10327 DX51D + Z galvanized
- 2 mm thickness
- Supply includes mounting screws
- 1 set = 2 pcs



Height	Width	Depth	Article No.	Type	Packing
800 mm	89 mm	109 mm	112865	DPP SHA 180 N	1 set
2000 mm	89 mm	109 mm	112866	DPP SHA 200 N	1 set

Partition profile

- Material DIN EN 10327 DX51D + Z galvanized
- 2 mm thickness
- Supply includes frame fasteners
- 1 set = 2 pcs



Height	Width	Depth	Article No.	Type	Packing
1800 mm	42 mm	40 mm	111105	PP SHA 180	1 set
2000 mm	42 mm	40 mm	111106	PP SHA 200	1 set

Monobloc stand-alone enclosures

MSA

Adjustable shelf

- Material DIN EN 10130 DC01 CCRS
- 1.5 mm thickness
- Surface is finished by RAL7035w powder coating
- Supply includes mounting fasteners



Width	Depth	Height	Article No.	Type	Packing
600 mm	400 mm	30 mm	111107	AS SHA 60 40	1/2
600 mm	600 mm	30 mm	111108	AS SHA 60 60	1/2
800 mm	400 mm	30 mm	111110	AS SHA 80 40	1/2
800 mm	600 mm	30 mm	111111	AS SHA 80 60	1/2

Pull out shelf

- Material DIN EN 10130 DC01 CCRS
- 1.5 mm thickness
- Surface is finished by RAL7035w powder coating
- Supply includes shelf, pull out side rails, connection profiles and mounting fasteners



Width	Depth	Height	Article No.	Type	Packing
600 mm	400 mm	30 mm	111113	POL SHA 60 40	1/2
600 mm	600 mm	30 mm	111114	POL SHA 60 60	1/2
800 mm	400 mm	30 mm	111116	POL SHA 80 40	1/2
800 mm	600 mm	30 mm	111117	POL SHA 80 60	1/2

Plan pockets A4/A3

- Material DIN EN 10130 DC01 CCRS
- 1.5 mm thickness
- Surface is finished by RAL7035w powder coating
- Supply includes mounting fasteners to fix door reinforcement frame



Width	Height	Depth	Article No.	Type	Packing
all	200 mm	30 mm	111119	PP SHA A4	1/10
600/1200 mm	240 mm	60 mm	111120	PP SHA A3	1/6
800 mm	240 mm	60 mm	111121	PP SHA A3A	1/6

Laptop tray

- Material DIN EN 10130 DC01 CCRS
- 2 mm thickness
- Surface is finished by RAL7035w powder coating
- Supply includes laptop tray, mounting fasteners to fix to door reinforcement frame



Width	Height	Depth	Article No.	Type	Packing
600 mm	365 mm	70 mm	111122	LT SHA 60	1
800 mm	365 mm	70 mm	111123	LT SHA 80	1
1000 mm	365 mm	70 mm	111124	LT SHA 100	1

Swing frame

- Material DIN EN 10130 DC01 CCRS and DIN EN 10327 DX51D + Z galvanized
- 2 mm thickness
- Surface is finished by RAL7035w powder coating
- Supply includes mounting fasteners



Height	Width	Depth	Article No.	Type	Packing
1800 mm	600 mm	70 mm	111125	SF SHA 60 36U	1
2000 mm	600 mm	70 mm	111126	SF SHA 60 40U	1
1800 mm	800 mm	70 mm	111127	SF SHA 80 36U	1
2000 mm	800 mm	70 mm	111128	SF SHA 80 40U	1

19“ Profiles

- Material DIN EN 10327 DX51D + Z galvanized
- 1.5 mm thickness
- 1 set = 2 pcs



Height	Width	Depth	Article No.	Type	Packing
1800 mm	130 mm	50 mm	111129	CP SHA 180 39U	1 set
2000 mm	130 mm	50 mm	111130	CP SHA 180 43U	1 set

SHA lock systems EK333

- Spare lock mechanism



Article No.	Type	Packing
111131	LS SHA	1/100

SHA hinges

- Spare hinges for SHA enclosures



Article No.	Type	Packing
112867	HI SHA N	1/50

Hinge for cover plate

- Hinge for creating hinged cover plates
- ZAMAK M5



Article No.	Type	Packing
111134	HCP SHA	1/50

Lock for cover plates

- Additional lock for hinged cover plates
- Plastic lock with metal tongue
- KY69.1.5.14 (7x23)



Article No.	Type	Packing
111133	LFC SHA	1/100

Earthing cables

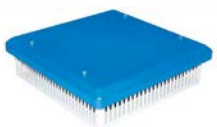
- Materials of the cable are nickel plated, braided copper conductor
- 16 mm² cross sections
- M8-M8 connection



Length	Article No.	Type	Packing
275 mm	111135	EC SHA 275	1/50
350 mm	111136	EC SHA 350	1/50

Roof mounted fan units

- Roof ventilation system
- 230 V AC / 50Hz
- Air flow 650 or 860 m³/h
- Dimensions (H x W x D) - 100 x 350 x 350 mm



Air flow	Power	Noise level	Article No.	Type	Packing
650 m ³ /h	65 W	68 dB	111137	RMF SHA 650	1
860 m ³ /h	100 W	73 dB	111138	RMF SHA 860	1

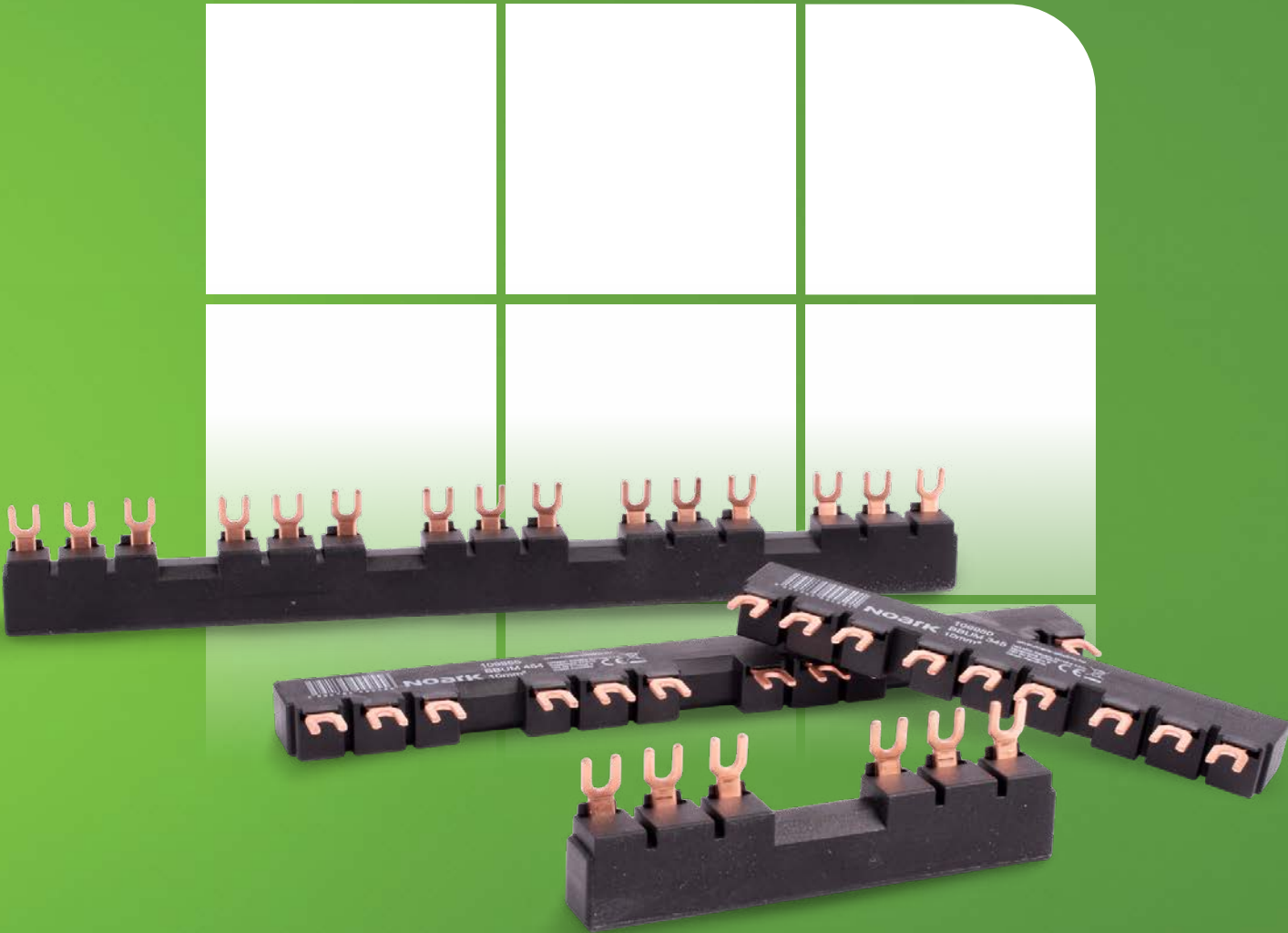
Busbar support 3P and 4P, 2 bars/pole

- Isolators between flat busbars



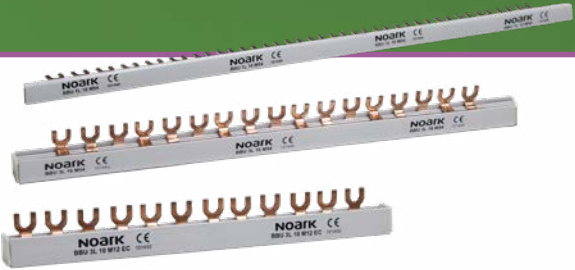
Height	Width	Depth	Article No.	Type	Packing
40 mm	340 mm	42 mm	111139	BBS SHA 3P	1/2
40 mm	440 mm	42 mm	111140	BBS SHA 4P	1/2

INTERCONNECTION
SYSTEMS



NOTES

Busbars **BBU, BBP** and **BBUE**

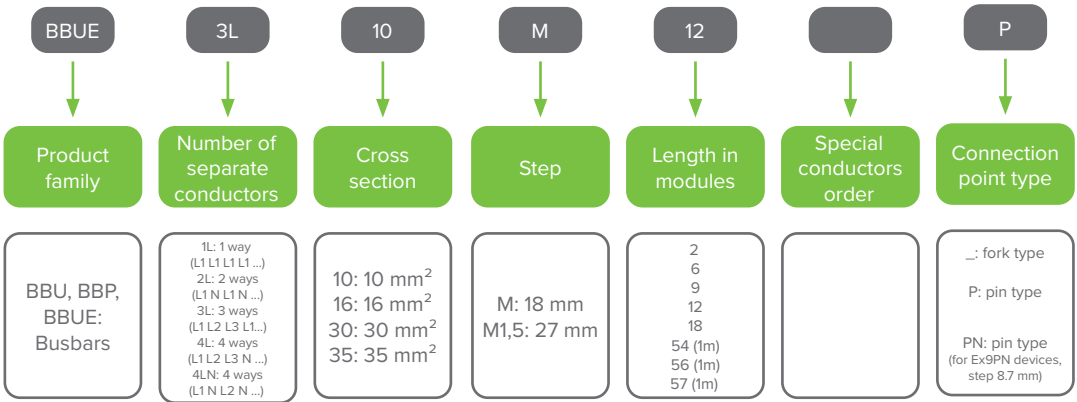


- Busbars BBU, BBP and BBUE for connection of installation devices
- 1, 2, 3 and 4-pole versions
- 10 mm² for 63 A, 16 mm² for 80 A and 35 mm² for 125 A circuits
- 1 meter long or shortened versions
- Fork and pin type connection points
- 8.7, 13.5, 18 or 27 mm connection point step
- Tailored versions for specific combinations of Noark devices

Busbars for simple and reliable interconnection of installation devices.

Some versions are equipped with end caps. There are available separately packed end caps for all types of busbars.

Type Key



Certification marks



Busbars BBU

1 meter fork type busbars

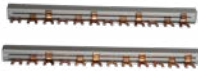
- 1, 2, 3 and 4-phase busbars
- With 54 and 56 fork type connection points
- 10 mm² for rated current up to 63 A
- 16 mm² for rated current up to 80 A
- Delivered without end caps



Number of phases	Length MU	Cross section	Article No.	Type	Packing
1	54 MU	10 mm ²	101446	BBU 1L 10 M54	1/100
1	54 MU	16 mm ²	101447	BBU 1L 16 M54	1/100
2	56 MU	10 mm ²	114573	BBU 2L 10 M56	1/100
3	54 MU	10 mm ²	101448	BBU 3L 10 M54	1/50
3	54 MU	16 mm ²	101449	BBU 3L 16 M54	1/50
4	56 MU	10 mm ²	114575	BBU 4L 10 M56	1/50
4	56 MU	16 mm ²	114576	BBU 4L 16 M56	1/50

Shortened fork type busbars

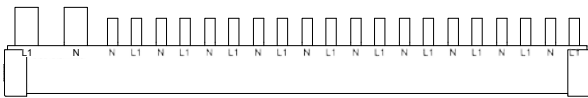
- 1 and 3-phase busbars
- With 6, 9, 12 and 18 fork type connection points
- 10 mm² for rated current up to 63 A
- 16 mm² for rated current up to 80 A
- Delivered with end caps



Number of phases	Length MU	Cross section	Article No.	Type	Packing
1	12 MU	10 mm ²	114569	BBU 1L 10 M12	1/10/200
1	12 MU	16 mm ²	114570	BBU 1L 16 M12	1/10/200
3	18 MU	10 mm ²	114571	BBU 3L 10 M18	1/5/400
3	12 MU	10 mm ²	101450	BBU 3L 10 M12 EC	1/10/200
3	12 MU	16 mm ²	101451	BBU 3L 16 M12 EC	1/10/200
3	6 MU	10 mm ²	110830	BBU 3L 10 M6 EU	1/5/400
3	6 MU	16 mm ²	110832	BBU 3L 16 M6 EU	1/5/400
3	9 MU	10 mm ²	110831	BBU 3L 10 M9 EU	1/5/250
3	9 MU	16 mm ²	110833	BBU 3L 16 M9 EU	1/5/250

Special shortened pin type busbar

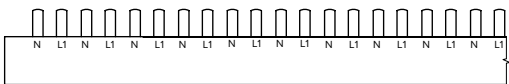
- 2-phase busbar for combination of RCCB of line Ex9BL and Ex9PN line MCBs
- 10 mm² for rated current up to 63 A
- Step between MCB connection points 8.7 mm
- Pin type connection point
- Delivered with end caps



Number of phases	Length MU	Cross section	Article No.	Type	Packing
2	12	10 mm ²	114572	BBU 2L 10 M12 LN+10xNLPN	1/25

Special pin type busbar

- 2-phase busbar - configuration N L1 N L1 N ...
- Suitable for 1MU 1P+N-pole MCBs line Ex9PN
- 10 mm² for rated current up to 63 A
- Step between connection points 8.7 mm
- Pin type connection points
- Delivered without end caps



Number of phases	Length MU	Cross section	Article No.	Type	Packing
2	56 (1m)	10 mm ²	114574	BBU 2L 10 M56 NLPN	1/10

Busbars BBP

1 meter pin type busbars

- 1 and 3-phase busbars
- With 54 pin type connection points
- 10 mm² for rated current up to 63 A
- Delivered without end caps



Number of phases	Length MU	Cross section	Article No.	Type	Packing
1	54 MU	10 mm ²	113240	BBP 1L 10 M54 EU	1/5/50
3	54 MU	10 mm ²	113241	BBP 3L 10 M54 EU	1/5/20

Shortened pin type busbars

- 1 and 3-phase busbars
- With 54 pin type connection points
- 10 mm² for rated current up to 63 A
- Delivered without end caps

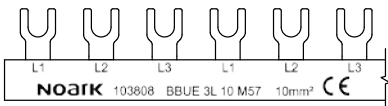


Number of phases	Length MU	Cross section	Article No.	Type	Packing
1	12	10 mm ²	113242	BBP 1L 10 M12 EU	1/10/500
3	12	10 mm ²	113243	BBP 3L 10 M12 EU	1/5/180

Busbars **BBUE**

1 meter fork type busbars

- 1, 2, 3 and 4-phase versions
- Lenght 1 meter (can be shortened)
- Step between connection points 18 mm
- Fork type connection points
- 10 mm² for 63 A or 16 mm² for 80 A rated current
- Delivered without end caps



Number of phases	Length MU	Cross section	Article No.	Type	Packing
1P	56 (1m)	10 mm ²	103798	BBUE 1L 10 M56	1/10
1P	56 (1m)	16 mm ²	103804	BBUE 1L 16 M56	1/10
2P	56 (1m)	10 mm ²	103864	BBUE 2L 10 M56	1/10
2P	56 (1m)	16 mm ²	103865	BBUE 2L 16 M56	1/10
3P	57 (1m)	10 mm ²	103808	BBUE 3L 10 M57	1/10
3P	57 (1m)	16 mm ²	103812	BBUE 3L 16 M57	1/10
4P	56 (1m)	10 mm ²	103816	BBUE 4L 10 M56	1/10
4P	56 (1m)	16 mm ²	103817	BBUE 4L 16 M56	1/10

Shortened fork type busbars

- 1 and 3-phase versions
- 10 mm² for 63 A or 16 mm² for 80 A rated current
- Step between connection points 18 mm
- Fork type connection points
- Delivered without end caps

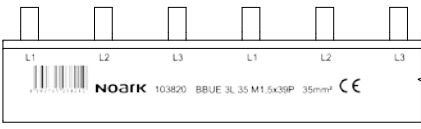


Number of phases	Length MU	Cross section	Article No.	Type	Packing
1	2	10 mm ²	103799	BBUE 1L 10 M2	1/25
1	6	10 mm ²	103800	BBUE 1L 10 M6	1/25
1	9	10 mm ²	103801	BBUE 1L 10 M9	1/25
1	12	10 mm ²	103802	BBUE 1L 10 M12	1/25
1	12	16 mm ²	103805	BBUE 1L 16 M12	1/25
1	18	10 mm ²	103803	BBUE 1L 10 M18	1/25
1	18	16 mm ²	103806	BBUE 1L 16 M18	1/25
3	9	10 mm ²	103809	BBUE 3L 10 M9	1/25
3	9	16 mm ²	103813	BBUE 3L 16 M9	1/25
3	12	10 mm ²	103810	BBUE 3L 10 M12	1/25
3	12	16 mm ²	103814	BBUE 3L 16 M12	1/25
3	18	10 mm ²	103811	BBUE 3L 10 M18	1/25
3	18	16 mm ²	103815	BBUE 3L 16 M18	1/25

Busbars **BBP** and **BBUE**

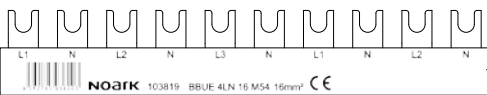
Special type busbars

- 1, 3 and 4-phase versions
- Suitable for Ex9B125 line MCBs
- For rated current up to 125 A
- Step between connection points 27 mm
- Pin type connection points
- Delivered without end caps



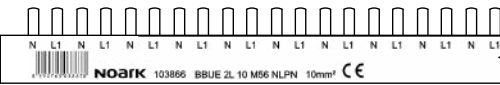
Number of phases	Length MU	Cross section	Article No.	Type	Packing
1	37 (1m)	35 mm ²	103807	BBUE 1L 35 M1.5x37P	1/10
3	39 (1m)	35 mm ²	103820	BBUE 3L 35 M1.5x39P	1/10
4	40 (1m)	30 mm ²	103821	BBUE 4L 30 M1.5x40P	1/10

- 4-phase busbars - configuration L1 N L2 N L3 N L1 ...
- Suitable for 2MU 1P+N-pole MCBs line Ex9B
- 10 mm² for rated current up to 63 A
- 16 mm² for rated current up to 80 A
- Step between connection points 18 mm
- Fork type connection points
- Delivered without end caps



Number of phases	Length MU	Cross section	Article No.	Type	Packing
4	54 (1m)	10 mm ²	103818	BBUE 4LN 10 M54	1/10
4	54 (1m)	16 mm ²	103819	BBUE 4LN 16 M54	1/10

- 2-phase busbar - configuration N L1 N L1 N ...
- Suitable for 1MU 1P+N-pole MCBs line Ex9PN
- 10 mm² for rated current up to 63 A
- Step between connection points 8.7 mm
- Pin type connection points
- Delivered without end caps
- Busbar is designed for connecting devices from the bottom side, the order of the devices is quoted from left



Number of phases	Length MU	Cross section	Article No.	Type	Packing
2	56 (1m)	10 mm ²	103866	BBUE 2L 10 M56 NLPN	1/10

- 2-phase busbar - configuration N L1 N L1 N ...
- 4-phase busbar - configuration N L1 N L2 N L3 N L1...
- Suitable for 1MU 1P+N-pole MCBs line Ex9PN, 1MU RCBO Ex9NLE and Ex9BL20J
- 10 mm² for rated current up to 63 A
- Step between connection points 8,7 mm
- Pin type connection points
- Delivered without end caps
- Busbar is designed for connecting devices from the top side, the order of the devices is quoted from left



Number of phases	Length MU	Cross section	Article No.	Type	Packing
2	54 (1m)	10 mm ²	113238	BBP 2LN 10 M54 EU	1/5/25
4	54 (1m)	10 mm ²	113239	BBP 4LN 10 M54 EU	1/5/20

Busbars **BBP** and **BBUE**

1 meter special type busbars

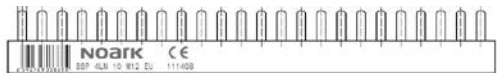
- Suitable for 3/4MU Ex9B40J line MCBs
- 10 mm² for rated current up to 63 A
- Step between connection points 13,5 mm
- Pin type connection points
- Delivered without end caps
- For 72 slim MCBs in line



Number of phases	Length MU	Cross section	Article No.	Type	Packing
1	72	10 mm ²	113236	BBP 1L 10 M72 13.5mm EU	1/10/50
3	72	10 mm ²	113237	BBP 3L 10 M72 13.5mm EU	1/5/20

Special type shortened busbars

- 2-phase busbar - configuration N L1 N L1 N L1...
- 4-phase busbar - configuration N L1 N L2 N L3 N L1 ...
- Suitable for 1MU 1P+N-pole MCBs line Ex9PN, 1M RCBO Ex9NLE and Ex9BL20J
- 10 mm² for rated current up to 63 A
- Step between connection points 8.7 mm
- Pin type connection points
- Delivered with end caps
- Busbar is designed for connecting devices from the top side, the order of the devices is quoted from left



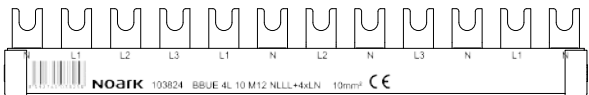
Number of phases	Length MU	Cross section	Article No.	Type	Packing
2	12	10 mm ²	111407	BBP 2LN 10 M12 EU	1/5/150
4	12	10 mm ²	111408	BBP 4LN 10 M12 EU	1/5/100

- Suitable for 3/4MU MCBs line Ex9B40J
- 10 mm² for rated current up to 63 A
- Step between connection points 13.5 mm
- Pin type connection points
- Delivered with end caps
- For 12 MCBs in line



Number of phases	Length MU	Cross section	Article No.	Type	Packing
1	12	10 mm ²	111405	BBP 1L 10 M12 EU	1/10/300
3	12	10 mm ²	111406	BBP 3L 10 M12 EU	1/5/150

- 2 and 4-phase busbars for combination of Ex9L RCCB with 1P+N-pole Ex9B line MCBs
- 10 mm² for rated current up to 63 A
- Step between MCB connection points 18 mm
- Fork type connection point
- Delivered with end caps
- Busbar is designed for connecting devices from the bottom side, the order of the devices is quoted from left

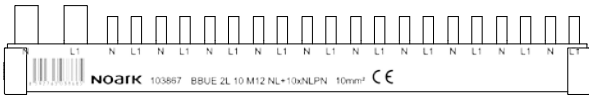


Number of phases	Length MU	Cross section	Article No.	Type	Packing
2	12	10 mm ²	103868	BBUE 2L 10 M12 NL+5xLN	1/25
4	12	10 mm ²	103824	BBUE 4L 10 M12 NLLL+4xLN	1/25
4	18	10 mm ²	103825	BBUE 4L 10 M18 NLLL+7xLN	1/25

Busbars **BBP** and **BBUE**

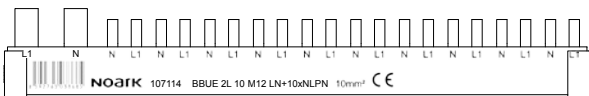
Special type shortened busbars

- 2 and 4-phase busbars for combination of Ex9L RCCB with Ex9PN line MCBs
- 10 mm² for rated current up to 63 A
- Step between MCB connection points 8.7 mm
- Pin type connection points
- Delivered with end caps
- Busbar is designed for connecting devices from the bottom side, the order of the devices is quoted from left



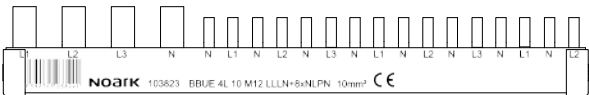
Number of phases	Length MU	Cross section	Article No.	Type	Packing
2	12	10 mm ²	103867	BBUE 2L 10 M12 NL+10xNLPN	1/25
4	12	10 mm ²	103822	BBUE 4L 10 M12 NLLL+8xNLPN	1/25

- 2-phase busbar for combination of RCCB of line Ex9BL and Ex9PN line MCBs
- 10 mm² for rated current up to 63 A
- Step between MCB connection points 8.7 mm
- Pin type connection point
- Delivered with end caps
- Busbar is designed for connecting devices from the bottom side, the order of the devices is quoted from left



Number of phases	Length MU	Cross section	Article No.	Type	Packing
2	12	10 mm ²	107114	BBUE 2L 10 M12 LN+10xNLPN	1/25

- 4-pole busbar for combination of RCD with N-pole on right hand side and Ex9PN line MCBs
- 10 mm² for rated current up to 63 A
- Step between MCB connection points 8.7 mm
- Pin type connection point
- Delivered with end caps
- Busbar is designed for connecting devices from the bottom side, the order of the devices is quoted from left



Number of phases	Length MU	Cross section	Article No.	Type	Packing
4	12	10 mm ²	103823	BBUE 4L 10 M12 LLLN+8xNLPN	1/25

Busbars **BBU**, **BBP** and **BBUE**

End caps for BBU and BBP busbars

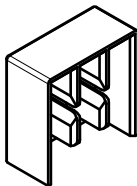
■ End caps for 1 and 3-phase BBU busbars



Cross section	For number of phases	Article No.	Type	Packing
10 / 16 mm ²	1	101452	ECU 1L 10/16	1/1000
10 mm ²	2	113244	ECU 2L 10	1/1000
16 mm ²	2	113245	ECU 2L 16	1/1000
10 / 16 mm ²	3	101453	ECU 3L 10	1/1000
10 / 16 mm ²	4	113247	ECU 4L 10	1/500

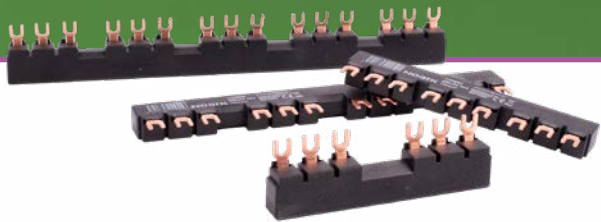
End Caps

■ End Caps for BBUE busbars



For Busbars	For Number of phases	Article No.	Type	Packing
BBUE 1L	1	103826	ECUE 1L	1/50
BBUE 2L	2	103827	ECUE 2L	1/50
BBUE 3L	3	103828	ECUE 3L	1/50
BBUE 4L	4	103829	ECUE 4L	1/50
BBUE 1L 35	1	103831	ECUE 1L 35	1/50
BBUE 3L 35	3	103830	ECUE 3L 35	1/50

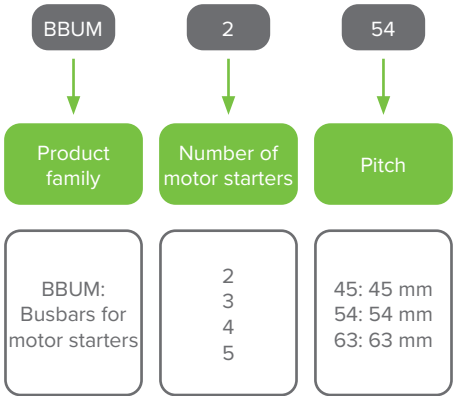
Busbars **BBUM**



- Busbars BBUM for connection of Motor Protective Circuit Breakers
- For up to 5 motor starters
- 10 mm² for 63 A circuits
- Fork type connection points
- 45, 54 or 63 mm connection point step

Busbars for simple and reliable interconnection of motor protective circuit breakers.

Type Key



Certification marks



Busbars BBUM

BBUM busbars

- For up to 5 motor protective circuit breakers
- 45, 54 or 63 mm pitch
- Fork type connection points
- 10 mm² for rated current up to 63 A



Number of motor starters	Pitch	Article No.	Type	Packing
2	45 mm	109949	BBUM 245	1/10/200
3	45 mm	109950	BBUM 345	1/10/200
4	45 mm	109951	BBUM 445	1/10/100
5	45 mm	109952	BBUM 545	1/10/100
2	54 mm	109953	BBUM 254	1/10/250
3	54 mm	109954	BBUM 354	1/10/200
4	54 mm	109955	BBUM 454	1/10/100
5	54 mm	109956	BBUM 554	1/10/100
2	63 mm	109957	BBUM 263	1/10/100
3	63 mm	109958	BBUM 363	1/10/100
4	63 mm	109959	BBUM 463	1/10/100
5	63 mm	109960	BBUM 563	1/10/200

Feeder terminal

- Fork type connection points
- 10 mm² for rated current up to 63 A



Description	Article No.	Type	Packing
Feeder terminal	109961	FTUM	1/10/200

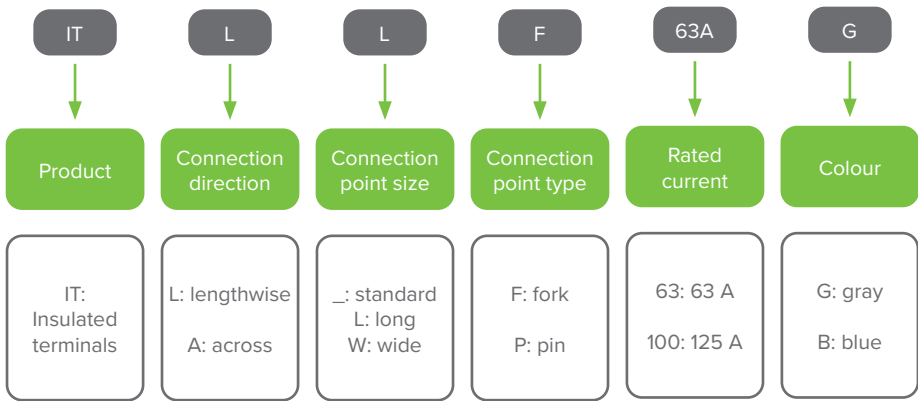
Insulated terminals IT



- Insulated terminals
- Tested according to EN 60999-1 and EN 60999-2
- Rated current up to 125 A
- Connection lengthwise or across
- Fork or pin connection point type
- Gray or blue terminal colour versions

The terminals IT are intended as feeder terminals in, for example, busbars connections. Can be used also for connecting a wire of a type which is not suitable for a device terminal. Different length and shape variants allow the installation in boards with low space for wire bending.

Type Key



Certification marks



Insulated terminals IT

Insulated terminals up to 63 A, fork connection point type

- Rated current up to 63 A
- Rated operational voltage 690 V AC
- Fork with cutout for M5 screw
- For single/multi wire 6 - 25 mm², fine wired with sleeve 4 - 16 mm²

	Connection direction	Connection point size	Colour	Article No.	Type	Packing
	lengthwise	13.5 x 11 x 2 mm	gray	103832	ITL F 63A G	1/25
	lengthwise	13.5 x 11 x 2 mm	blue	103833	ITL F 63A B	1/25
	across	13.5 x 11 x 2 mm	gray	103834	ITA F 63A G	1/25
	across	13.5 x 11 x 2 mm	blue	103835	ITA F 63A B	1/25
	lengthwise	28 x 11 x 2 mm	gray	103836	ITLL F 63A G	1/25
	lengthwise	28 x 11 x 2 mm	blue	103837	ITLL F 63A B	1/25
	across	28 x 11 x 2 mm	gray	103838	ITAL F 63A G	1/25
	across	28 x 11 x 2 mm	blue	103839	ITAL F 63A B	1/25

Insulated terminals up to 63 A, pin connection point type

- Rated current up to 63 A
- Rated operational voltage 690 V AC
- For single/multi wire 6 - 25 mm², fine wired with sleeve 4 - 16 mm²

	Connection direction	Connection point size	Colour	Article No.	Type	Packing
	lengthwise	13.5 x 4,3 x 2 mm	gray	103840	ITL P 63A G	1/25
	lengthwise	13.5 x 4,3 x 2 mm	blue	103841	ITL P 63A B	1/25
	across	13.5 x 4,3 x 2 mm	gray	103842	ITA P 63A G	1/25
	across	13.5 x 4,3 x 2 mm	blue	103843	ITA P 63A B	1/25
	lengthwise	13.5 x 6 x 2 mm	gray	103844	ITLW P 63A G	1/25
	lengthwise	13.5 x 6 x 2 mm	blue	103845	ITLW P 63A B	1/25
	across	13.5 x 6 x 2 mm	gray	103846	ITAW P 63A G	1/25
	across	13.5 x 6 x 2 mm	blue	103847	ITAW P 63A B	1/25

Insulated terminals up to 125 A, pin connection point type

- Rated current up to 125 A
- Rated operational voltage 690 V AC
- For single/multi wire 6 - 50 mm², fine wired with sleeve 4 - 35 mm²

	Connection direction	Connection point size	Colour	Article No.	Type	Packing
	lengthwise	13.5 x 7 x 2 mm	gray	103848	ITL P 100A G	1/25
	lengthwise	13.5 x 7 x 2 mm	blue	103849	ITL P 100A B	1/25

Power distribution blocks PDB

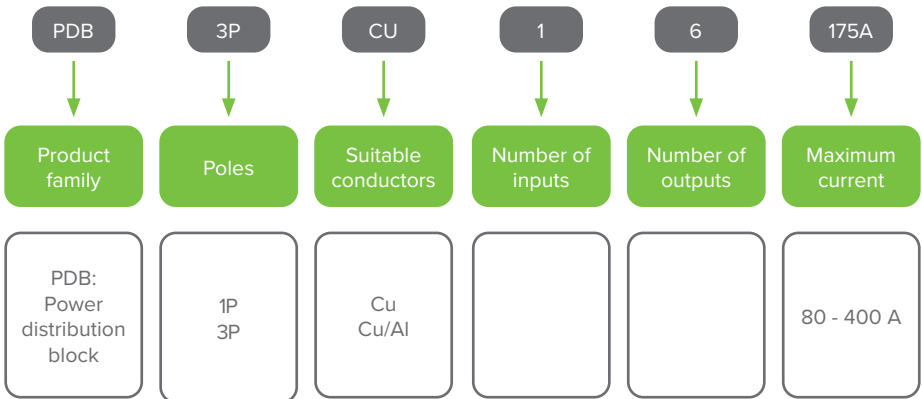


- Power distribution blocks
- Meets requirements of EN 60947-7-1
- Versions suitable for Cu or Cu/Al conductors
- Maximum current I_{max} up to 400 A
- Various combinations of outputs and inputs
- Mounting onto 35 mm DIN rail or onto panel

Power distribution blocks are used for saving time and space on distribution board wiring. You can save up to 80% of used space.

Due to modular construction it is possible to interconnect the power distribution blocks together and create multipole combinations.

Type Key



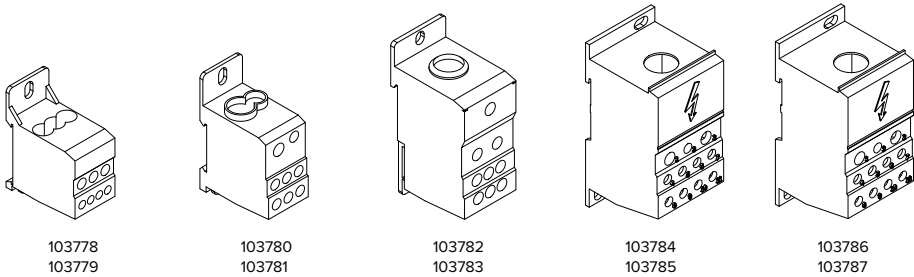
Certification marks



1-pole versions

- Suitable for copper (Cu) or copper/aluminium (Cu/Al) conductors - Al connections are not maintenance free
- Mounting onto DIN-rail or onto panel
- Rigid cables assumed for maximum currents and maximum connection cable cross sections

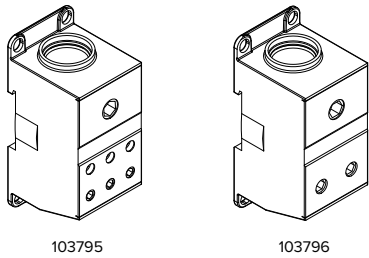
Maximum current (Cu/Al)	Inputs	Outputs	Suitable for	Article No.	Type	Packing
80 A	1x 2.5 - 16 mm ²	4x 2.5 - 6 mm ² 2x 2.5 - 16 mm ²	Cu	103778	PDB 1P CU 1x4+2 80A	1/25
125 A	1x 10 - 35 mm ² +1x 2.5 - 16 mm ²	6x 2.5 - 16 mm ²	Cu	103780	PDB 1P CU 1+1x6 125A	1/25
160 A	1x 10 - 70 mm ²	6x 2.5 - 16 mm ²	Cu	103782	PDB 1P CU 1x6 160A	1/20
250 A	1x 35 - 120 mm ²	2x 6 - 35 mm ² +5x 1.5 - 16 mm ² +4x 1.5 - 10 mm ²	Cu	103784	PDB 1P CU 1x2+5+4 250A	1/20
400 A	1x 95 - 185 mm ²	2x 6 - 35 mm ² +5x 1.5 - 16 mm ² +4x 1.5 - 10 mm ²	Cu	103786	PDB 1P CU 1x2+5+4 400A	1/20
80/63 A	1x 2.5 - 16 mm ²	4x 2.5 - 6 mm ² +2x 2.5 - 16 mm ²	Cu/Al	103779	PDB 1P CU/AL 1x4+2 80/63A	1/25
125/100 A	1x 10 - 35 mm ² +1x 2.5 - 16 mm ²	6x 2.5 - 16 mm ²	Cu/Al	103781	PDB 1P CU/AL 1+1x6 125/100A	1/25
160/125 A	1x 10 - 70 mm ²	6x 2.5 - 16 mm ²	Cu/Al	103783	PDB 1P CU/AL 1x6 160/125A	1/20
250/200 A	1x 35 - 120 mm ²	2x 6 - 35 mm ² +5x 1.5 - 16 mm ² +4x 1.5 - 10 mm ²	Cu/Al	103785	PDB 1P CU/AL 1x2+5+4 250/200A	1/20
400/300 A	1x 95 - 185 mm ²	2x 6 - 35 mm ² +5x 1.5 - 16 mm ² +4x 1.5 - 10 mm ²	Cu/Al	103787	PDB 1P CU/AL 1x2+5+4 400/300A	1/20



1-pole versions

- Suitable for copper (Cu) or copper/aluminium (Cu/Al) conductors - Al connections are not maintenance free
- Mounting onto DIN-rail or onto panel
- Rigid cables assumed for maximum currents and maximum connection cable cross sections

Maximum current (Cu/Al)	Inputs	Outputs	Suitable for	Article No.	Type	Packing
400 A	1x 95 - 240 mm ²	6x 10 - 50 mm ²	Cu	105509	PDB 1P CU 1x6 400A	1/10
400 A	1x 95 - 240 mm ²	2x 50 - 120 mm ²	Cu	105510	PDB 1P CU 1x2 400A	1/10
400/350 A	1x 95 - 240 mm ²	6x 10 - 50 mm ²	Cu/Al	103795	PDB 1P CU/AL 1x6 400/350A	1/10
400/350 A	1x 95 - 240 mm ²	2x 50 - 120 mm ²	Cu/Al	103796	PDB 1P CU/AL 1x2 400/350A	1/10

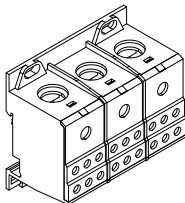


Power distribution blocks **PDB**

3-pole versions

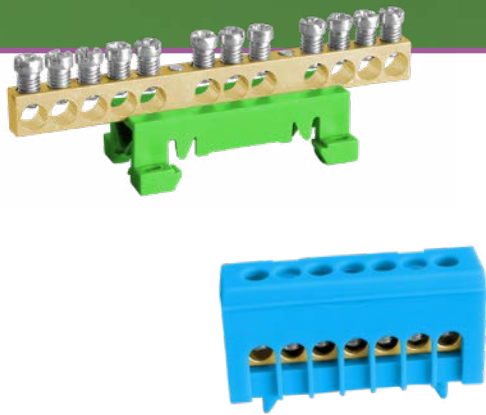
- Suitable for copper (Cu) or copper/aluminium (Cu/Al) conductors - Al connections are not maintenance free
- Mounting onto DIN-rail or onto panel
- Rigid cables assumed for maximum currents and maximum connection cable cross sections

Maximum current (Cu/Al)	Inputs	Outputs	Suitable for	Article No.	Type	Packing
175 A	1x 16 - 70 mm ²	6x 2.5 - 16 mm ²	Cu	103788	PDB 3P CU 1x6 175A	1/10
175/125 A	1x 16 - 70 mm ²	6x 2.5 - 16 mm ²	Cu/Al	103789	PDB 3P CU/AL 1x6 175/125A	1/10



103788
103789

Terminal bars **TB**

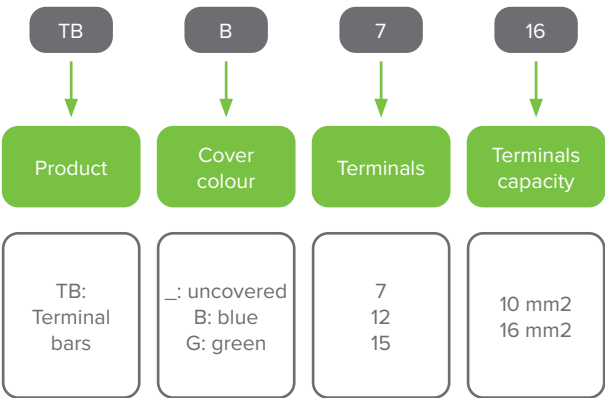


- Neutral and grounding terminal bars
- Tested according to EN 60998-1, -2-1
- Rated currents up to 63 A
- Rated isolation voltage 690 V AC
- 7, 12 and 15 terminal versions
- Terminals capacity 10 and 16 mm²
- Uncovered and covered coloured versions
- DIN-rail mounting

Terminal bars TB are used as additional terminals in most of distribution boards. Their design and compact size allows it usage in various applications with rated current up to 63 A.

Terminals are offered in various sizes. All types are equipped with either coloured (N, PE) plastic DIN rail holder or DIN rail clip.

Type Key



Certification marks



Terminal bars **TB**

Covered neutral and grounding terminal bars up to 63 A

- Rated current up to 63 A
- Rated isolation voltage 690 V AC
- All side finger-safe
- One-side closed conductor notch
- For wires up to 16 mm²



Terminals	Terminal capacity	Colour	Article No.	Type	Packing
7	up to 16 mm ²	blue	103850	TBB 7x16	1/10
7	up to 16 mm ²	green	103851	TBG 7x16	1/10
15	up to 16 mm ²	blue	103852	TBB 15x16	1/10
15	up to 16 mm ²	green	103853	TBG 15x16	1/10

Uncovered neutral and grounding terminal bars up to 63 A

- Rated current up to 63 A
- Rated isolation voltage 690 V AC
- For wires up to 10 mm²



Terminals	Terminal capacity	Colour	Article No.	Type	Packing
7	10 mm ²	blue	103854	TBB 7x10	1/10
7	10 mm ²	green	103855	TBG 7x10	1/10
15	10 mm ²	blue	103856	TBB 12x10	1/10
15	10 mm ²	green	103857	TBG 12x10	1/10

Terminal bars up to 63 A with steel DIN rail clip

- Rated current up to 63 A
- Rated isolation voltage 690 V AC
- For wires up to 10 mm²



Terminals	Terminal capacity	Article No.	Type	Packing
7	10 mm ²	103858	TB 7x10	1/10
12	10 mm ²	103859	TB 12x10	1/10

DIN-rail service socket **Ex9DS**



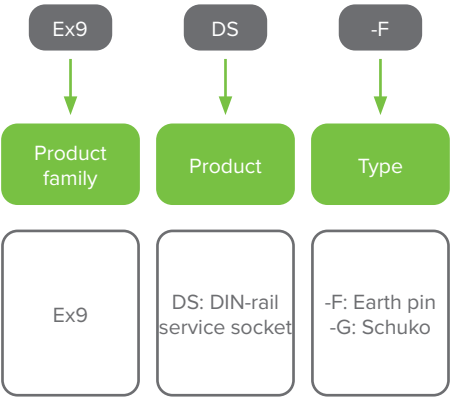
- Tested according to IEC/EN 60884-1
- Rated currents up to 16 A
- Rated operating voltage 250 V AC
- Rated insulation voltage 1000 V AC
- Terminals capacity 6 mm²
- DIN-rail mounting

DIN rail service socket is available in two version. Schuko standard and Earth pin standard socket are with 45mm housing for fitting onto symmetrical DIN rail.

DIN rail servise sockets can be quickly fitted and connected in enclosures.

These modular electrical sockets allow the use of auxiliary devices, tools or electrical and electronic non modular equipments in civil and industrial electrical switchboards.

Type Key



Certification marks



DIN-rail service socket - Earth pin standard

- Rated current up to 16 A
- Rated insulation voltage 1000 V AC
- Terminal capacity up to 6 mm²



Operating voltage	Article No.	Type	Packing
250 V AC	106194	Ex9DS-F	1/5/100

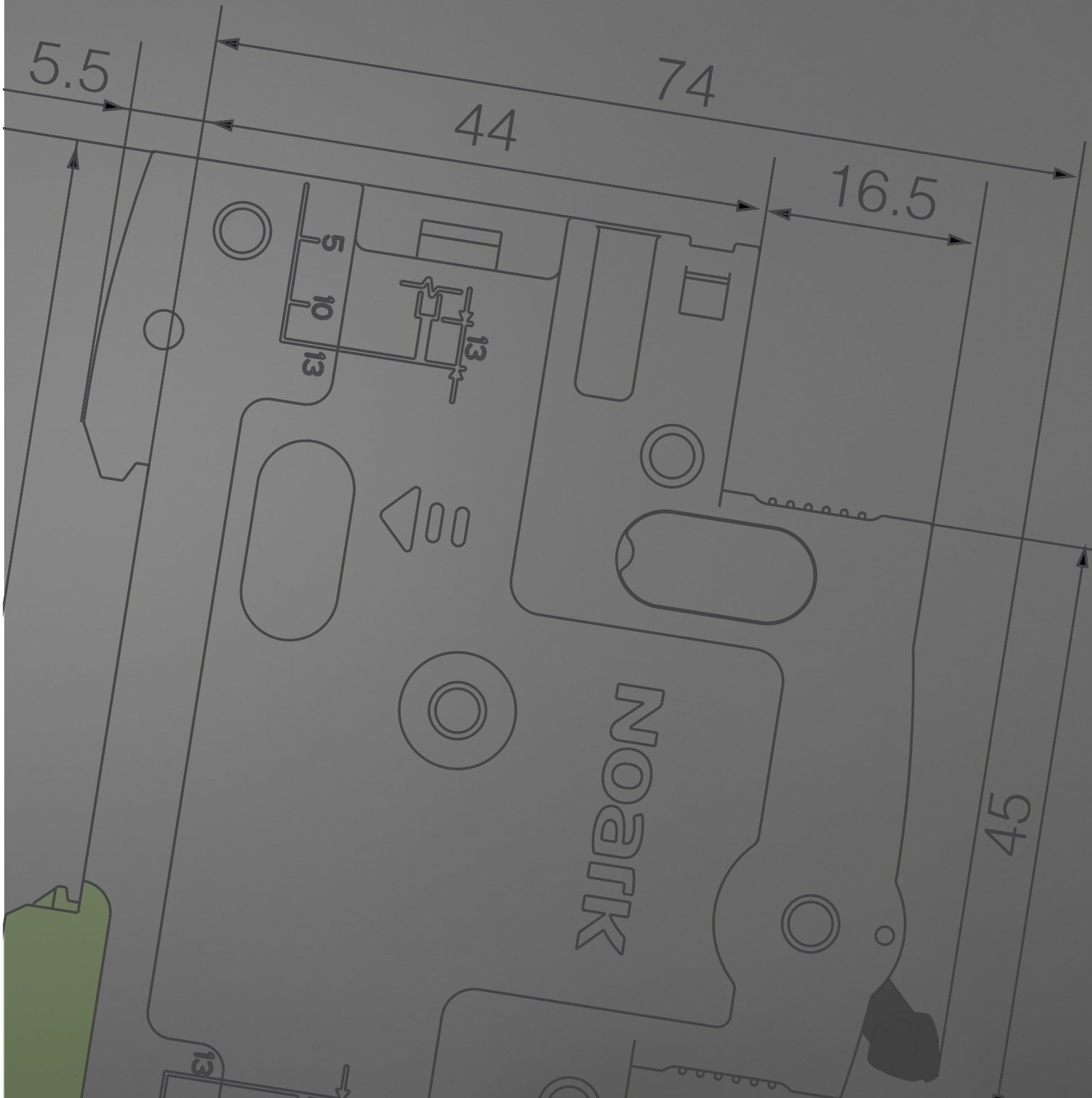
DIN-rail service socket - Schuko standard

- Rated current up to 16 A
- Rated insulation voltage 1000 V AC
- Terminal capacity up to 6 mm²



Operating voltage	Article No.	Type	Packing
250 V AC	106195	Ex9DS-G	1/5/100

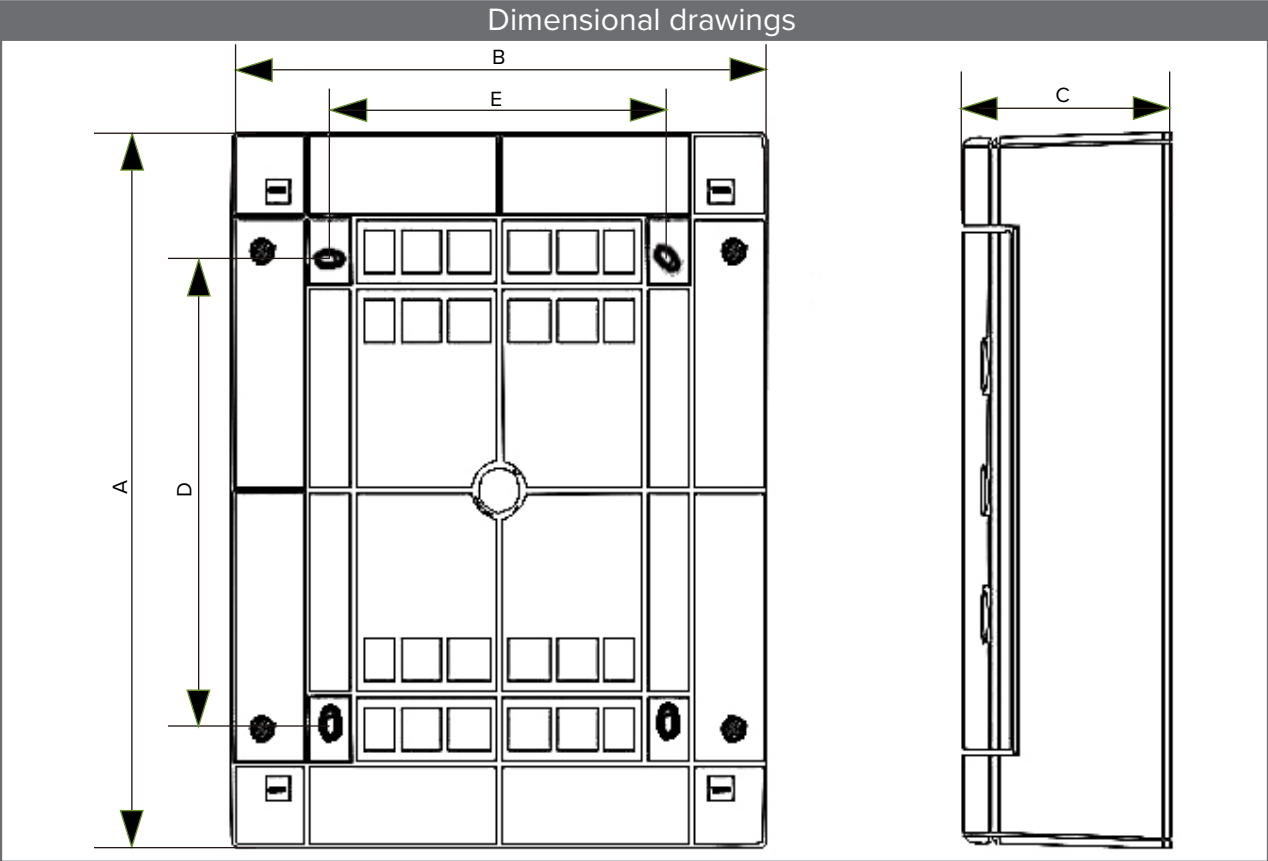
TECHNICAL
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Plastic consumer units, IP40, surface mounted	
General parameters	
Consumer units for domestic applications mainly	
Surface mounted version	
Scope of delivery: enclosure, door, device DIN rails, N + PE terminals, front cover with device cutout, cover for empty place, mounting material	
Electrical parameters	
Tested according to	EN 60670
Rated operational voltage	400 V AC 1000 V DC
Rated current	63 A
Rated frequency	50 Hz
Degree of protection	IP40
Protection class	II
Maximum power dissipation of all installed devices at ambient temperature 30 °C	
PNS 4T / PNS 4W	10 W
PNS 8T / PNS 8W	16 W
PNS 12T / PNS 12W	25 W
PNS 18T / PNS 18W	25 W
PNS 1x24T / PNS 1x24W	30 W
PNS 24T / PNS 24W	30 W
PNS 2x18T / PNS 2x18W	30 W
PNS 36T / PNS 36W	30 W
PNS 48T / PNS 48W	35 W
PNS 3x18T / PNS 3x18W	35 W
PNS 4x18T / PNS 4x18W	40 W
PNS 2x24T / PNS 2x24W	65 W
Mechanical parameters	
Glow-wire test	650 °C
Mechanical impact resistance	IK07
Used plastics	Halogen-free
Body color	RAL9003
Operating temperature	-25°C – +60°C
Material	Acrylonitrile butadiene styrene

Plastic consumer units, IP40, surface mounted



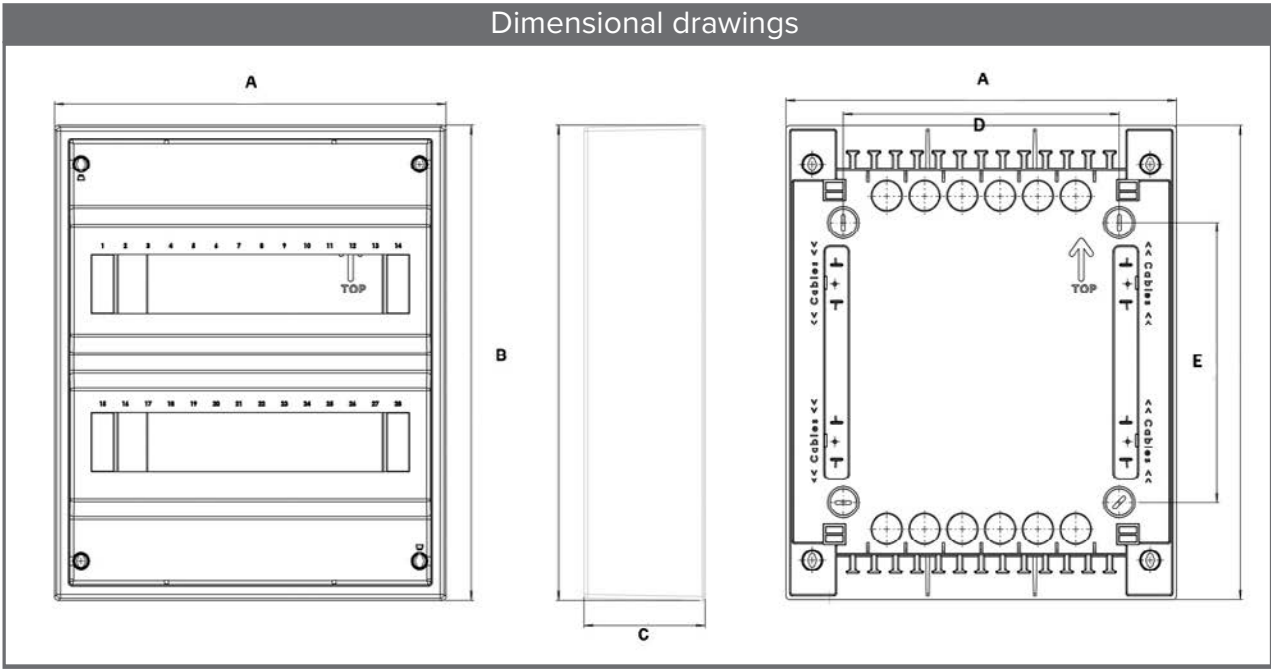
Dimensions					
Type	Dimensions [mm]				
	A	B	C	D	E
PNS 4T / PNS 4W	235	143	98	127	46
PNS 8T / PNS 8W	236	215	102	107	120
PNS 12T / PNS 12W	236	287	112	107	180
PNS 18T / PNS 18W	236	396	112	107	289
PNS 1x24T / PNS 1x24W	236	503	112	107	396
PNS 24T / PNS 24W	361	287	112	232	180
PNS 2x18T / PNS 2x18W	361	396	112	232	289
PNS 36T / PNS 36W	485	287	112	357	180
PNS 2x24T / PNS 2x24W	400	500	110	232	396
PNS 48T / PNS 48W	652	287	112	482	180
PNS 3x18T / PNS 3x18W	526	396	112	357	289
PNS 4x18T / PNS 4x18W	651	396	112	482	289

Plastic consumer units, IP40, surface mounted

General parameters	
Consumer units for domestic applications mainly	
Surface mounted version	
Scope of delivery: enclosure, door, device DIN rails, N + PE terminals, front cover with device cutout, cover for empty place, mounting material	
Electrical parameters	
Tested according to	EN 60670, EN 62208
Rated operational voltage	400 V AC
Rated current	63 A
Rated frequency	50 Hz
Degree of protection	IP40
Protection class	II
Rated current I _c	Up to 63A
Operating temperature	-25°C – +60°C
Maximum power dissipation of all installed devices at ambient temperature 30 °C	
PNS-SD 12T / PNS-SD 12W	30 W
PNS-SD 24T / PNS-SD 24W	40 W
PNS-SD 36T / PNS-SD 36W	60 W
Mechanical parameters	
Glow-wire test	650 °C
Mechanical impact resistance	IK07
Used plastics	ABS-Halogen-free

Plastic consumer units, IP40, surface mounted

Dimensional drawings



Dimensions

Type	Dimensions [mm]					Weight [kg]
	A	B	C	D	E	
PNS-SD 12T / PNS-SD 12W	310	251	96	125	126	1.2
PNS-SD 24T / PNS-SD 24W	310	377	96	223	126	1.6
PNS-SD 36T / PNS-SD 36W	310	505	96	125	126	2.0

Plastic consumer units, IP40, surface mounted

General parameters

Consumer units for domestic applications mainly
Surface mounted version
Additional space behind DIN rails
Scope of delivery: enclosure, door, device DIN rails, N + PE terminals, front cover with device cutout, cover for empty place, mounting material

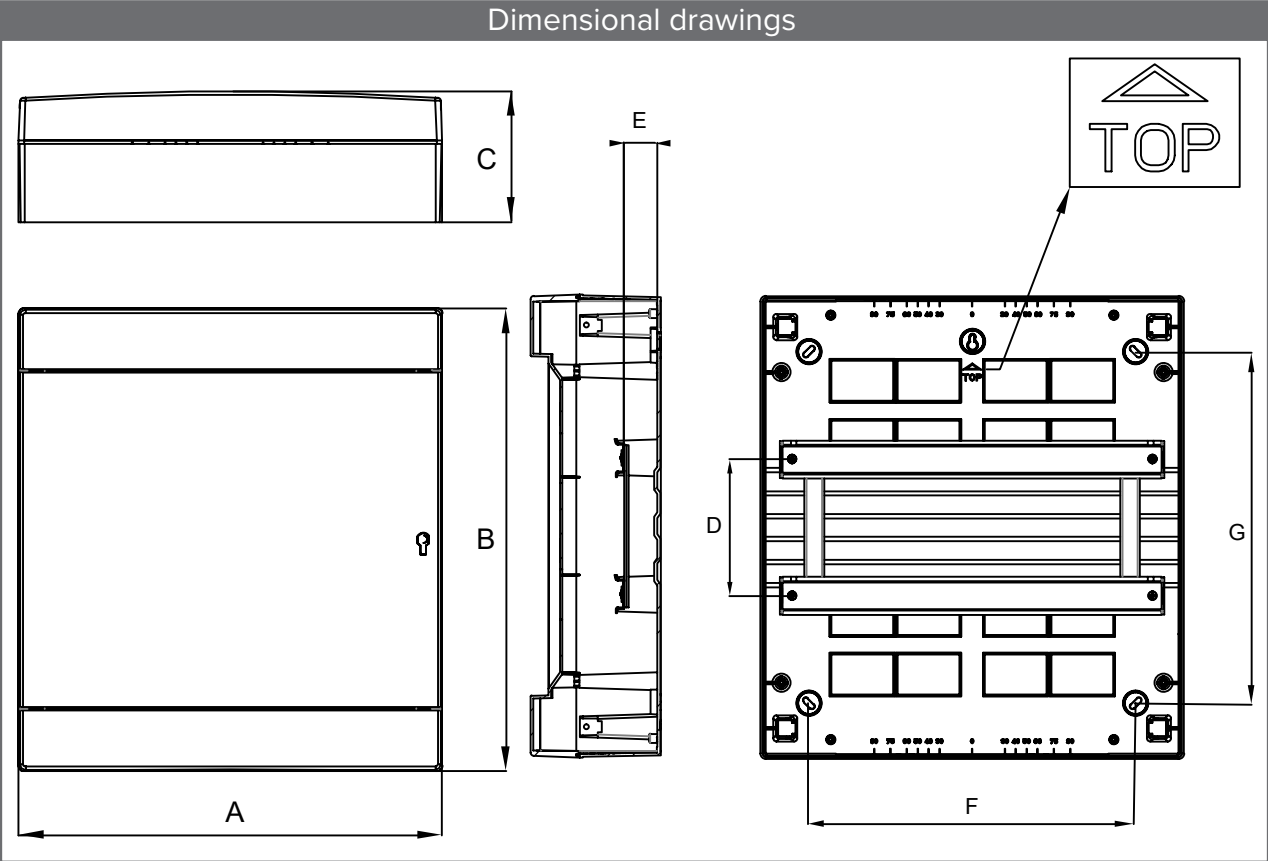
Electrical parameters

Tested according to	EN 60670
Rated operational voltage	400 V AC
Rated current	up to 63 A
Rated frequency	50 Hz
Degree of protection	IP40
Protection class	II
Maximum power dissipation of all installed devices at ambient temperature 30 °C	
PNS2 E 2x18T / PNS2 E 2x18W	60 W

Mechanical parameters

Glow-wire test	650 °C
Used plastics	Halogen-free
Body color	RAL9003
Operating temperature	-15°C – +60°C
Material	Acrylonitrile butadiene styrene

Plastic consumer units, IP40, surface mounted



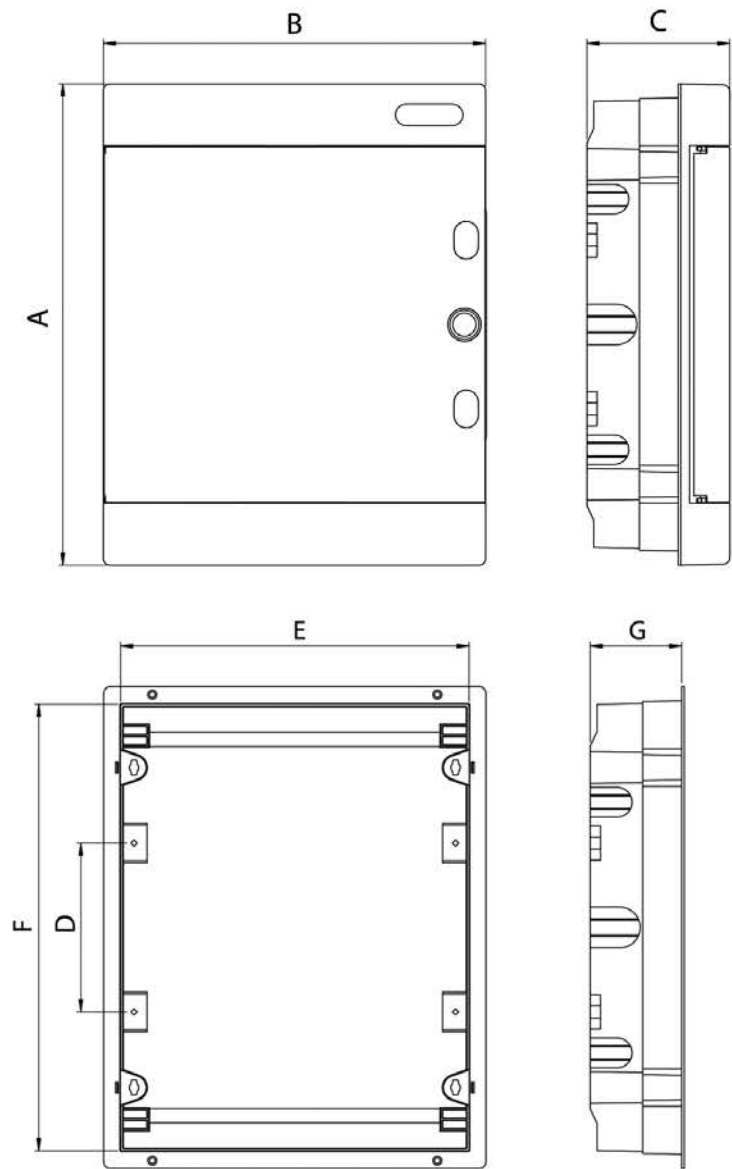
Dimensions							
Type	Dimensions [mm]						
	A	B	C	D	E	F	G
PNS2 E 2x18T / PNS2 E 2x18W	389	425	119,2	125	30	300	323

Plastic consumer units, IP40, flush mounted

General parameters	
Consumer units for domestic applications mainly	
Flush mounted version	
Scope of delivery: enclosure, door, device DIN rails, N + PE terminals, front cover with device cutout, cover for empty place, mounting material	
Electrical parameters	
Tested according to	EN 60670, EN 62208
Rated operational voltage	400 V AC 1000 V DC
Rated current	63 A
Rated frequency	50 Hz
Degree of protection	IP40
Protection class	II
Maximum power dissipation of all installed devices at ambient temperature 30 °C	
PNF 4T / PNF 4W	10 W
PNF 8T / PNF 8W	16 W
PNF 12T / PNF 12W	25 W
PNF 18T / PNF 18W	25 W
PNF 1x24T / PNF 1x24W	30 W
PNF 24T / PNF 24W	30 W
PNF 2x18T / PNF 2x18W	30 W
PNF 36T / PNF 36W	30 W
PNF 48T / PNF 48W	35 W
PNF 3x18T / PNF 3x18W	35 W
Mechanical parameters	
Glow-wire test	650 °C
Mechanical impact resistance	IK07
Used plastics	Halogen-free
Body color	RAL9003
Operating temperature	-25°C – +60°C
Material	Acrylonitrile butadiene styrene

Plastic consumer units, IP40, flush mounted

Dimensional drawings



Dimensions

Type	Dimensions [mm]						
	A	B	C	D	E	F	G
PNF 4T / PNF 4W	232	139	99	—	123	216	69
PNF 8T / PNF 8W	232	211	99	—	201	212	68
PNF 12T / PNF 12W	232	283	106	—	273	212	68
PNF 18T / PNF 18W	232	392	106	—	382	212	68
PNF 1x24T / PNF 1x24W	500	255	106	125	489	235	68
PNF 24T / PNF 24W	357	283	106	125	273	336	68
PNF 2x18T / PNF 2x18W	357	392	106	125	382	336	68
PNF 36T / PNF 36W	482	283	106	125	273	462	68
PNF 48T / PNF 48W	676	283	106	125	273	656	68
PNF 3x18T / PNF 3x18W	522	392	106	125	382	502	68

Plastic consumer units suitable for hollow-walls, IP40, flush mounted

General parameters

Consumer units for domestic applications mainly
Flush mounted version, suitable for hollow-walls mounting
Scope of delivery: enclosure, door, device DIN rails, N + PE terminals, front cover with device cutout, cover for empty place, mounting material

Electrical parameters

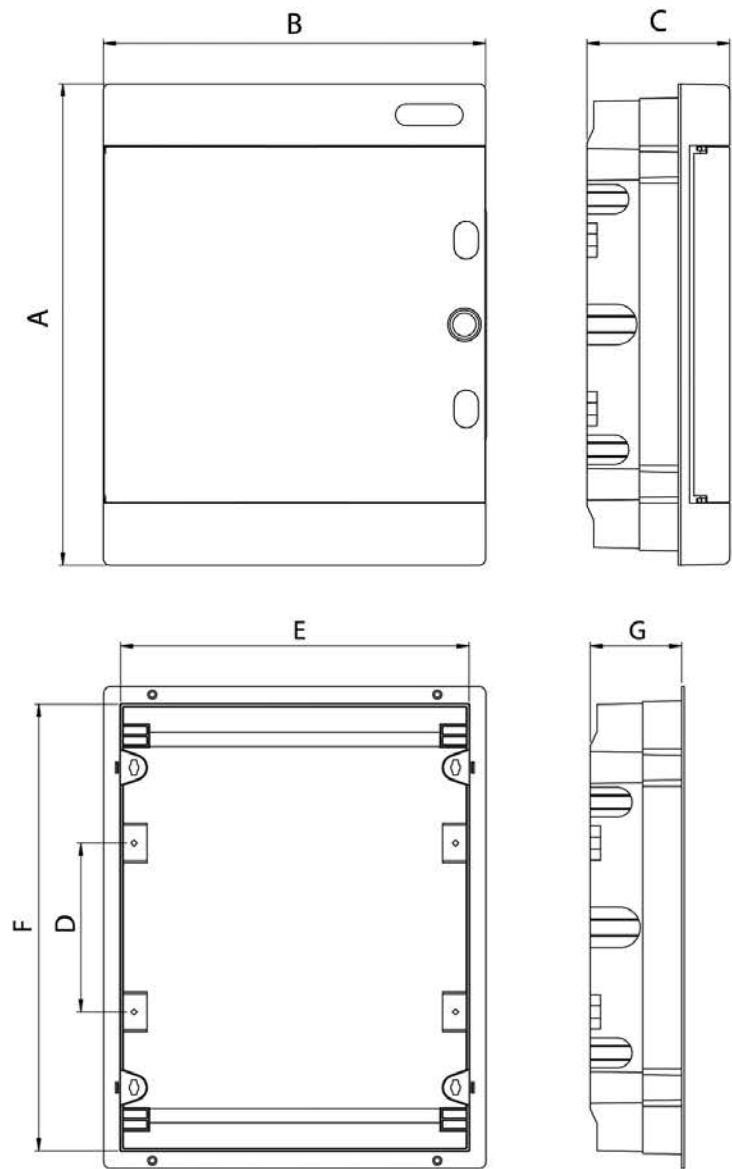
Tested according to	EN 60670, EN 62208
Rated op. voltage	400 V AC
Rated current	63 A
Rated frequency	50 Hz
Degree of protection	IP40
Protection class	II
Maximum power dissipation of all installed devices at ambient temperature 30 °C	
PNF-HW 8T / PNF-HW 8W	16 W
PNF-HW 12T / PNF-HW 12W	25 W
PNF-HW 18T / PNF-HW 18W	25 W
PNF-HW 24T / PNF-HW 24W	30 W
PNF-HW 2x18T / PNF-HW 2x18W	30 W
PNF-HW 36T / PNF-HW 36W	30 W
PNF-HW 3x18T / PNF-HW 3x18W	35 W

Mechanical parameters

Glow-wire test	850 °C (bottom part)
Mechanical impact resistance	IK08
Used plastics	Halogen-free
Body color	RAL9003
Operating temperature	-25°C – +60°C
Material	ABS

Plastic consumer units, IP40, flush mounted

Dimensional drawings



Dimensions

Type	Dimensions [mm]						
	A	B	C	D	E	F	G
PNF-HW 8T / PNF-HW 8W	232	211	99	—	201	212	68
PNF-HW 12T / PNF-HW 12W	232	283	106	—	273	212	68
PNF-HW 18T / PNF-HW 18W	232	392	106	—	382	212	68
PNF-HW 24T / PNF-HW 24W	357	283	106	125	273	336	68
PNF-HW 2x18T / PNF-HW 2x18W	357	392	106	125	382	336	68
PNF-HW 36T / PNF-HW 36W	482	283	106	125	273	462	68
PNF-HW 3x18T / PNF-HW 3x18W	522	392	106	125	382	502	68

Plastic consumer units, IP40, surface mounted

General parameters

Consumer units for domestic applications mainly
Suitable for modems and routers
Surface mounted version
Scope of delivery: enclosure, front cover, door, mounting plate, mounting material

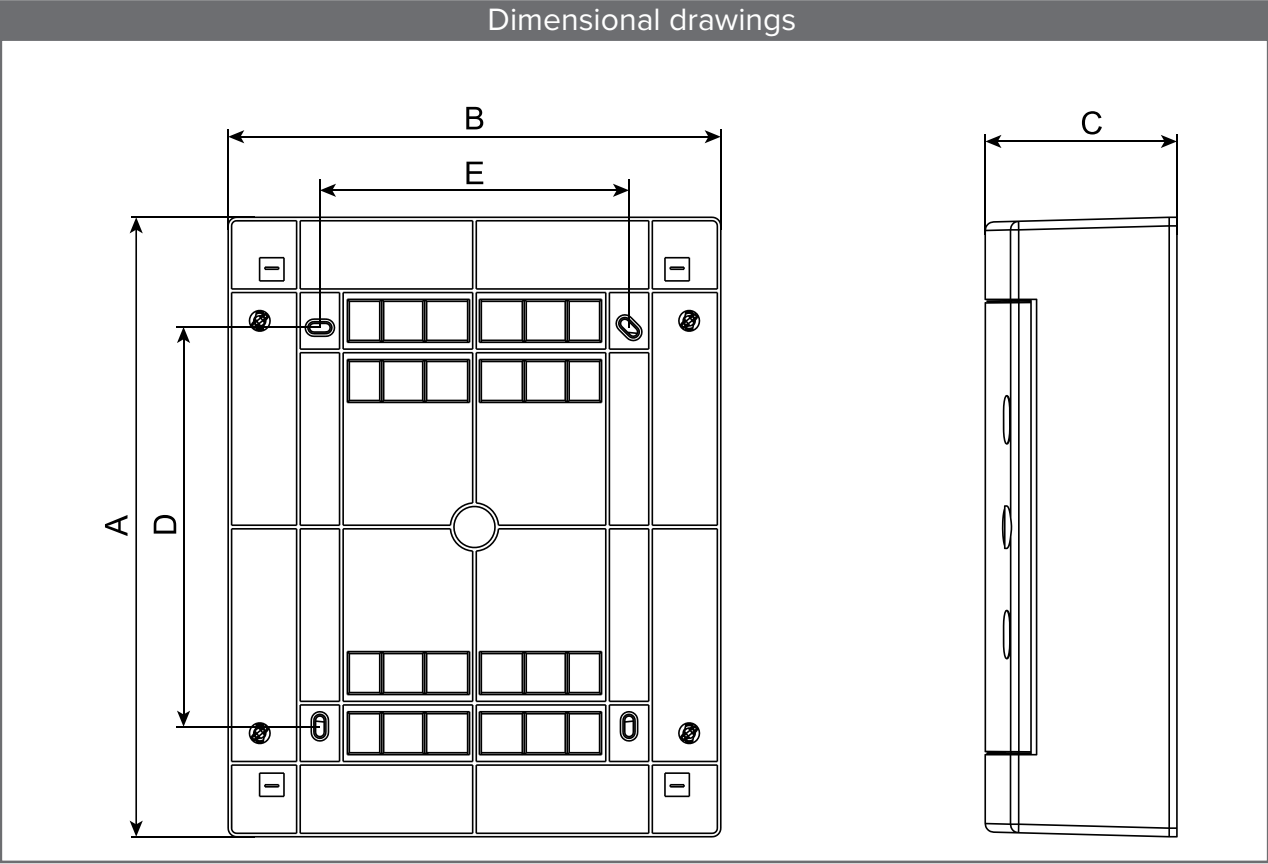
Electrical parameters

Tested according to	EN 60670, EN 62208
Rated operational voltage	400 V AC
Rated current	63 A
Rated frequency	50 Hz
Degree of protection	IP40
Protection class	II
Maximum power dissipation of all installed devices at ambient temperature 30 °C	
PNS-MM 24T / PNS-MM 24W	30 W
PNS-MM 36T / PNS-MM 36W	30 W
PNS-MM 48T / PNS-MM 48W	35 W
PNS-MM 2x18T / PNS-MM 2x18W	30 W
PNS-MM 3x18T / PNS-MM 3x18W	35 W
PNS-MM 4x18T / PNS-MM 4x18W	40 W

Mechanical parameters

Glow-wire test	850 °C
Mechanical impact resistance	IK08
Used plastics	Halogen-free
Body color	RAL9003
Operating temperature	-25°C – +60°C
Material	Acrylonitrile butadiene styrene

Plastic consumer units, IP40, surface mounted



Dimensions					
Type	Dimensions [mm]				
	A	B	C	D	E
PNS-MM 24T / PNS-MM 24W	361	287	112	232	180
PNS-MM 36T / PNS-MM 36W	485	287	112	357	180
PNS-MM 48T / PNS-MM 48W	652	287	112	482	180
PNS-MM 2x18T / PNS-MM 2x18W	361	396	112	232	289
PNS-MM 3x18T / PNS-MM 3x18W	526	396	112	357	289
PNS-MM 4x18T / PNS-MM 4x18W	651	396	112	482	289

Plastic consumer units, IP40, flush mounted

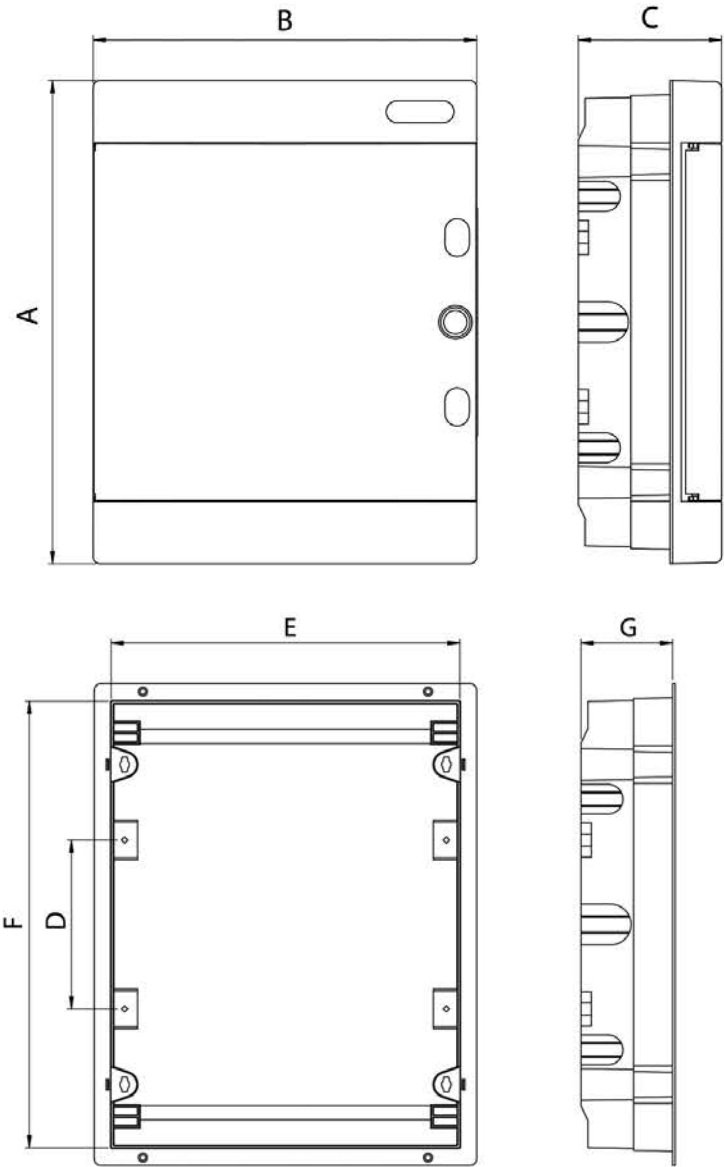
General parameters
Consumer units for domestic applications mainly
Suitable for modems and routers
Flush mounted version
Scope of delivery: enclosure, front cover, door, mounting plate, mounting material

Electrical parameters	
Tested according to	EN 60670, EN 62208
Rated operational voltage	400 V AC
Rated current	63 A
Rated frequency	50 Hz
Degree of protection	IP40
Protection class	II
Maximum power dissipation of all installed devices at ambient temperature 30 °C	
PNF-MM 24T / PNF-MM 24W	30 W
PNF-MM 36T / PNF-MM 36W	30 W
PNF-MM 48T / PNF-MM 48W	35 W
PNF-MM 2x18T / PNF-MM 2x18W	30 W
PNF-MM 3x18T / PNF-MM 3x18W	35 W

Mechanical parameters	
Glow-wire test	850 °C
Mechanical impact resistance	IK08
Used plastics	Halogen-free
Body color	RAL9003
Operating temperature	-25°C – +60°C
Material	Acrylonitrile butadiene styrene

Plastic consumer units, IP40, flush mounted

Dimensional drawings



Dimensions

Type	Dimensions [mm]						
	A	B	C	D	E	F	G
PNF-MM 24T / PNF-MM 24W	357	283	106	125	273	336	68
PNF-MM 36T / PNF-MM 36W	482	283	106	125	273	462	68
PNF-MM 48T / PNF-MM 48W	676	283	106	125	273	656	68
PNF-MM 2x18T / PNF-MM 2x18W	357	392	106	125	382	336	68
PNF-MM 3x18T / PNF-MM 3x18W	522	392	106	125	382	502	68

Plastic consumer units, IP30, surface mounted

General parameters

Consumer units for domestic applications mainly
Surface mounted version
Scope of delivery: enclosure, device DIN rails, N + PE terminals (excl. PXS 1 and PXS 2), front cover with device cutout, cover for empty place, mounting material

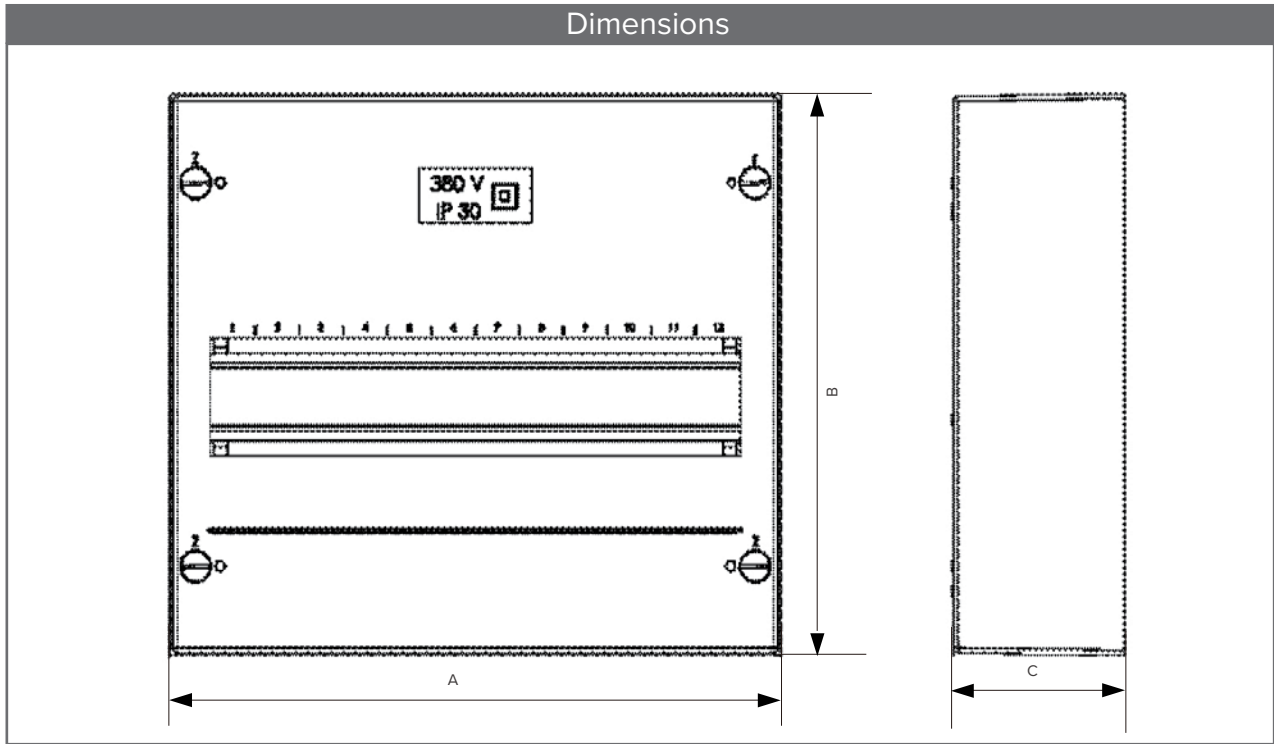
Electrical parameters

Tested according to	EN 60670
Rated operational voltage	230 / 400 V AC
Rated current	63 A
Rated frequency	50 Hz
Degree of protection	IP30
Protection class	II
Maximum power dissipation of all installed devices at ambient temperature 30 °C	
PXS 1	14 W
PXS 2	14 W
PXS 3	14 W
PXS 12	22 W
PXS 24	22 W
PXS 36	26 W

Mechanical parameters

Glow-wire test	650 °C
Mechanical impact resistance	IK07
Used plastics	Halogen-free
Body color	RAL9003
Operating temperature	-25°C – +60°C
Material	Styrene

Plastic consumer units, IP30, surface mounted



Dimensions			
Type	Dimensions [mm]		
	A	B	C
PXS 1	51	130	57
PXS 2	87	130	57
PXS 3	97	155	57
PXS 12	250	225	70
PXS 24	250	353	70
PXS 36	250	463	70

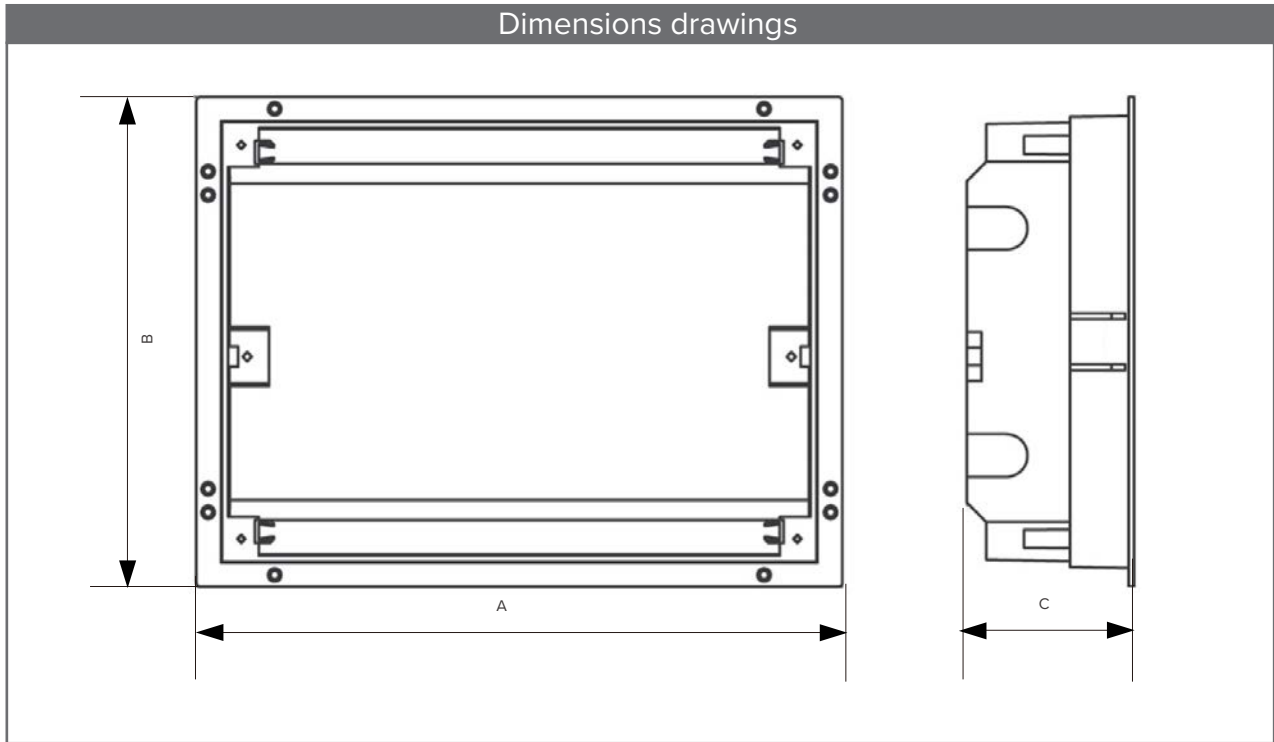
Plastic consumer units, IP40, flush mounted

General parameters	
Consumer units for domestic applications mainly	
Flush mounted version	
Scope of delivery: enclosure, door, device DIN rails, N + PE terminals, front cover with device cutout, cover for empty place, mounting material	

Electrical parameters	
Tested according to	EN 60670
Rated operational voltage	400 V AC
Rated current	63 A
Rated frequency	50 Hz
Degree of protection	IP40
Protection class	II
Maximum power dissipation of all installed devices at ambient temperature 30 °C	
PXF 12T / PXF 12W	53 W
PXF 24T / PXF 24W	69 W
PXF 36T / PXF 36W	84 W

Mechanical parameters	
Glow-wire test	650 °C
Mechanical impact resistance	IK07
Used plastics	Halogen-free
Body color	RAL9003
Operating temperature	-25°C – +60°C
Material	Styrene

Plastic consumer units, IP40, flush mounted



Type	Dimensions		
	Dimensions [mm]		
	A	B	C
PXF 12T / PXF 12W	338	260	88
PXF 24T / PXF 24W	338	380	92
PXF 36T / PXF 36W	338	508	92

Flush-mounted plastic consumer units with sheet-steel doors

General parameters
Consumer units for domestic applications
Flush-mounted version, suitable also for hollow-walls mounting
Scope of delivery: enclosure, metal frame with door, mounting frame with device DIN rails, N + PE terminals, sealable front cover with device cutout, cover for empty place, mounting material and instructions

Electrical parameters	
Tested according to	EN 62208, EN 60670
Rated operational voltage U_e	400 V AC
Rated current I_e	up to 63 A
Rated frequency	50 Hz
Insulation voltage U_i	400 V AC
Degree of protection	IP40
Degree of protection against mechanical impact	IK08
Protection class	II
Operating temperature	-25°C – +60°C
Maximum power dissipation of all installed devices at ambient temperature 30 °C	
PMF 12	31 W
PMF 24	40 W
PMF 36	50 W
PMF 48	60 W
PMF 60	70 W

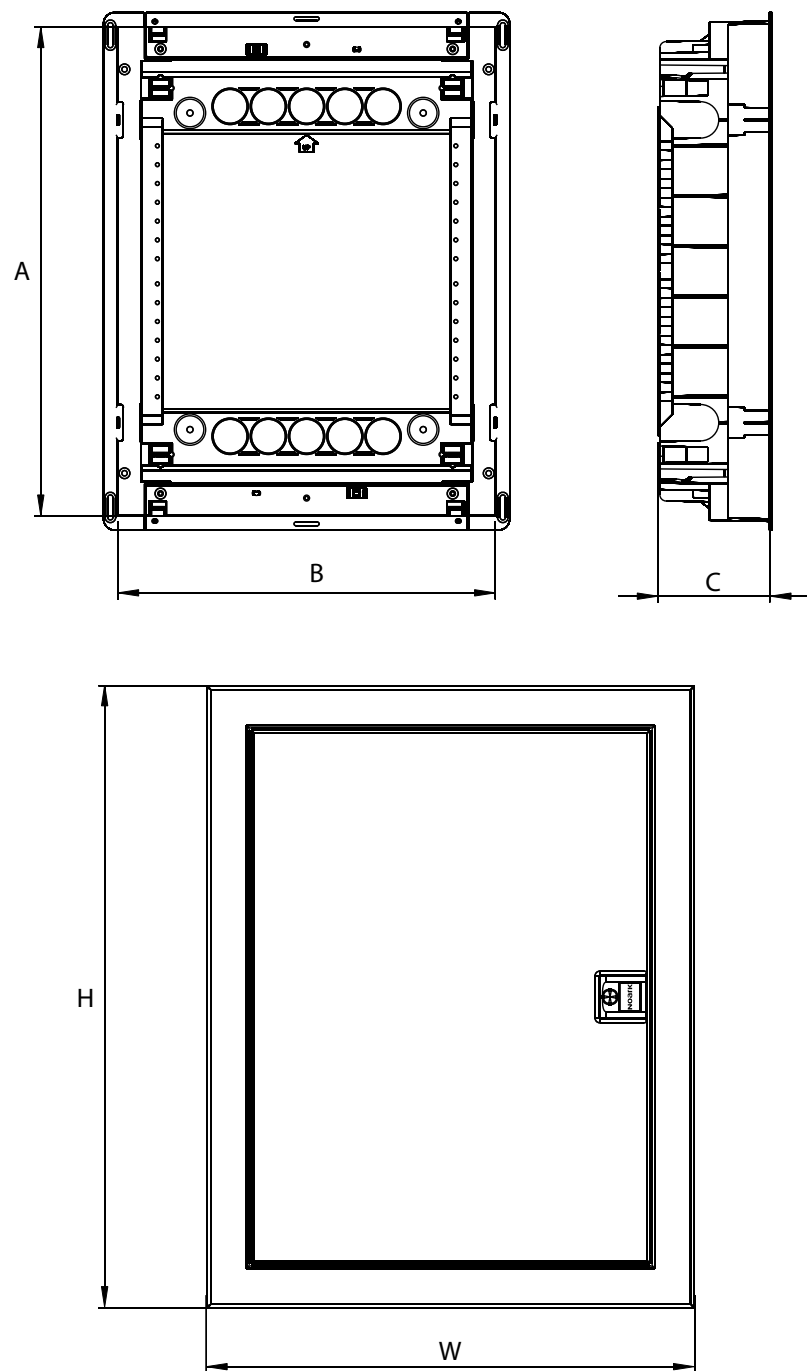
Mechanical parameters	
Glow-wire test	850 °C
Used plastics	Halogen-free
Metal parts colour	powder coated, white, flat, RAL 9016

Mechanical parameters	
1.	enclosure wall box with N+PE terminals
2.	removable top and bottom box side with cable cutout relief
3.	DIN-rail mounting frame
4.	sealable front cover with device cutout
5.	front metal frame with door

The diagram shows an exploded view of the PMF flush-mounted plastic consumer unit. It illustrates the assembly of the unit from its components, which are numbered 1 through 5. Component 1 is the enclosure wall box with N+PE terminals. Component 2 is the removable top and bottom box side with cable cutout relief. Component 3 is the DIN-rail mounting frame. Component 4 is the sealable front cover with device cutout. Component 5 is the front metal frame with door. The diagram shows how these components fit together to form the complete unit.

Flush-mounted plastic consumer units with sheet-steel doors

Dimensional drawings



Dimensions

Type	Dimensions [mm]					Weight [kg]
	A	B	C	H	W	
PMF 12	274	306	87	317	346	2.0
PMF 24	399	306	87	442	346	2.5
PMF 36	549	306	87	592	346	3.0
PMF 48	673	306	87	717	346	3.5
PMF 60	799	306	87	842	346	4.5

Flush-mounted multimedia consumer units

General parameters

Consumer units for domestic applications
Flush-mounted version, suitable also for hollow-walls mounting
Scope of delivery: enclosure, frame with perforated door or plastic door, mounting plates, mounting material and instructions

Electrical parameters

Tested according to	EN 62208, EN 60670
Rated operational voltage U_e	400 V AC
Rated current I_e	up to 63 A
Rated frequency	50 Hz
Insulation voltage U_i	400 V AC
Degree of protection	IP30 (IP40 for plastic door)
Degree of protection against mechanical impact	IK08
Protection class	II
Operating temperature	-25°C – +60°C
Maximum power dissipation of all installed devices at ambient temperature 30 °C	
PMF-MM 12	31 W
PMF-MM 24	40 W
PMF-MM 36	50 W
PMF-MM 48	60 W
PMF-MM 60	70 W

Mechanical parameters

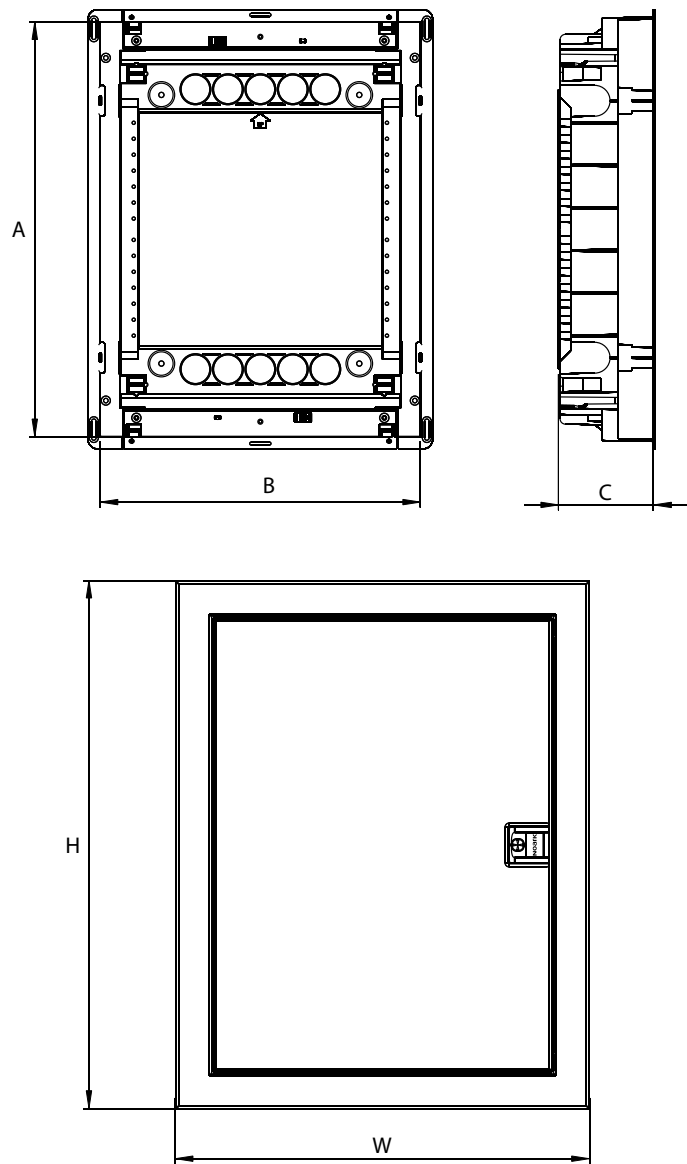
Glow-wire test	850 °C
Used plastics	Halogen-free
Metal parts colour	powder coated white, RAL 9016

Mechanical parameters

1. Enclosure wall box	The diagram illustrates the assembly of the PMF-MM multimedia consumer unit. It shows the enclosure wall box (1), mounting plates (2), front metal or plastic frame (3), and the metal perforated door or plastic door (4). The unit is shown in a partially assembled state, with the door open to reveal the internal components.
2. Mounting plates	
3. Front metal or plastic frame	
4. Metal perforated door or plastic door	

Flush-mounted multimedia consumer units

Dimensional drawings



Dimensions

Type	Dimensions [mm]					Weight [kg]	
	A	B	C	H	W	Metal doors	Plastic doors
PMF-MM 12	274	306	87	317	346	1.8	1.75
PMF-MM 24	399	306	87	442	346	2.3	2.2
PMF-MM 36	549	306	87	592	346	2.8	2.7
PMF-MM 48	673	306	87	717	346	3.3	-
PMF-MM 60	799	306	87	842	346	3.8	-

Flush-mounted plastic consumer units with sheet-steel perforated doors

General parameters

Consumer units for domestic applications
Flush-mounted version, suitable also for hollow-walls mounting
Scope of delivery: enclosure, metal frame with perforated door, mounting plates, DIN-rails, partition without socket, mounting material and instructions

Electrical parameters

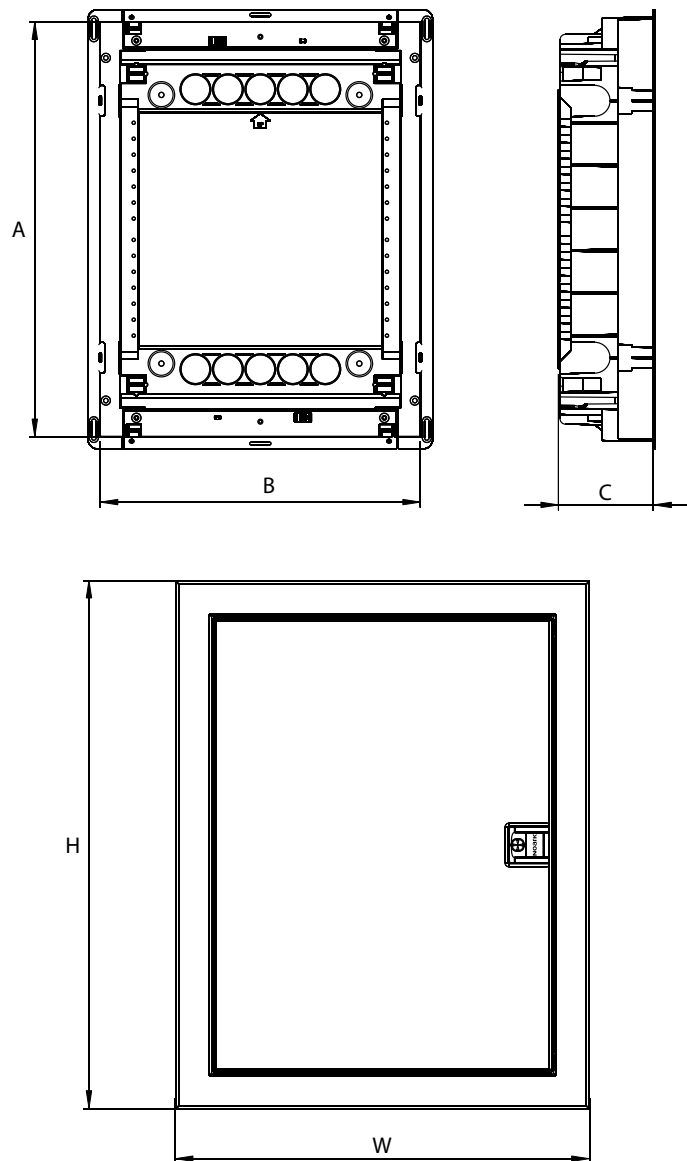
Tested according to	EN 62208, EN 60670
Rated operational voltage U_e	400 V AC
Rated current I_e	up to 63 A
Rated frequency	50 Hz
Insulation voltage U_i	400 V AC
Degree of protection	IP30
Degree of protection against mechanical impact	IK08
Protection class	II
Operating temperature	-25°C — +60°C
Maximum power dissipation of all installed devices at ambient temperature 30 °C	
PMF-C 36	50 W
PMF-C 48	60 W
PMF-C 60	70 W

Mechanical parameters

Glow-wire test	850 °C
Used plastics	Halogen-free
Metal parts colour	powder coated white, RAL 9016

Flush-mounted plastic consumer units with sheet-steel perforated doors

Dimensional drawings

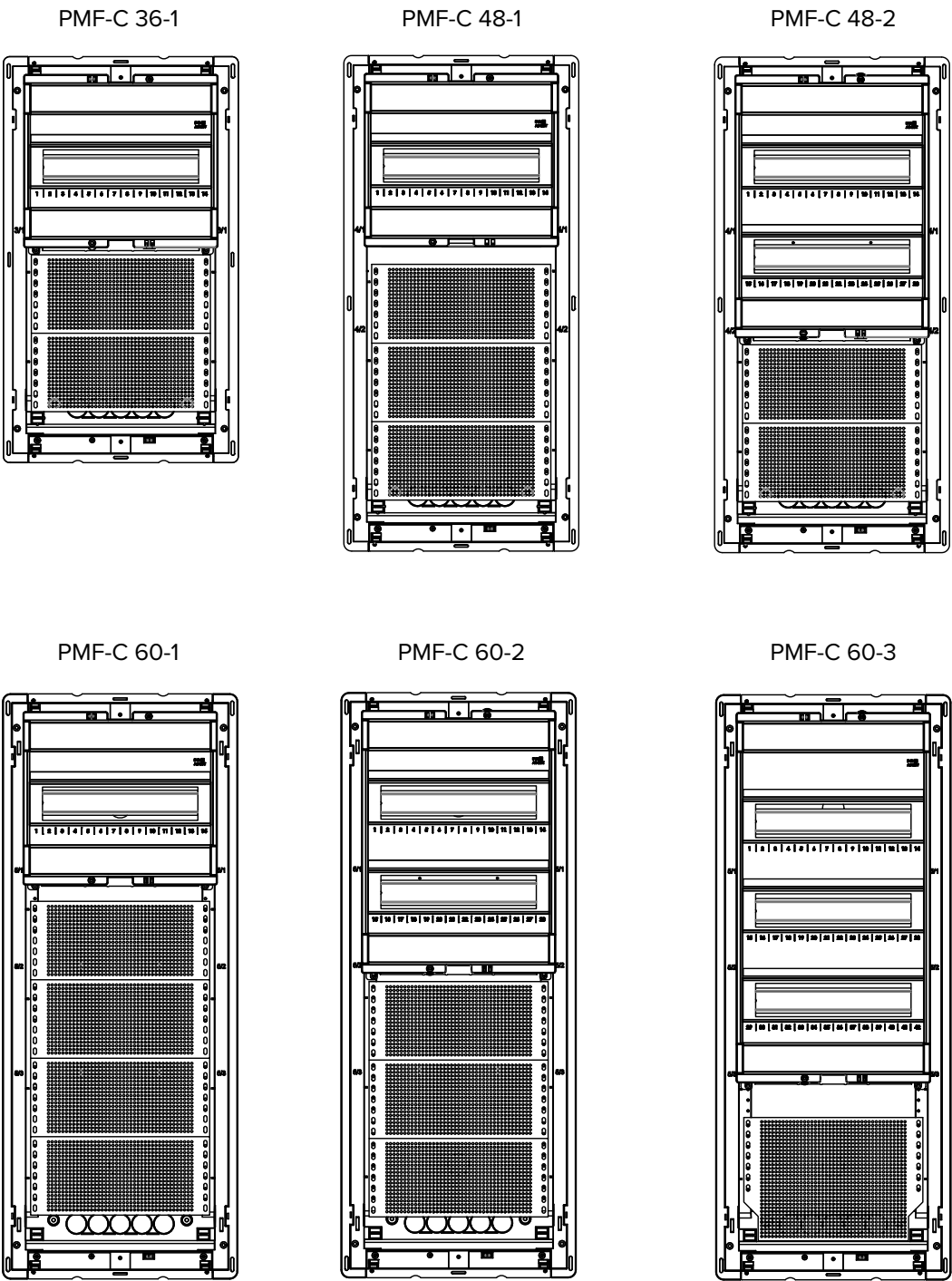


Dimensions

Type	Dimensions [mm]					Weight [kg]
	A	B	C	H	W	
PMF-C 36	549	306	92	592	346	3.0
PMF-C 48	673	306	92	717	346	3.5
PMF-C 60	799	306	92	842	346	4.5

Flush-mounted plastic consumer units with sheet-steel perforated doors

Internal structure of enclosures



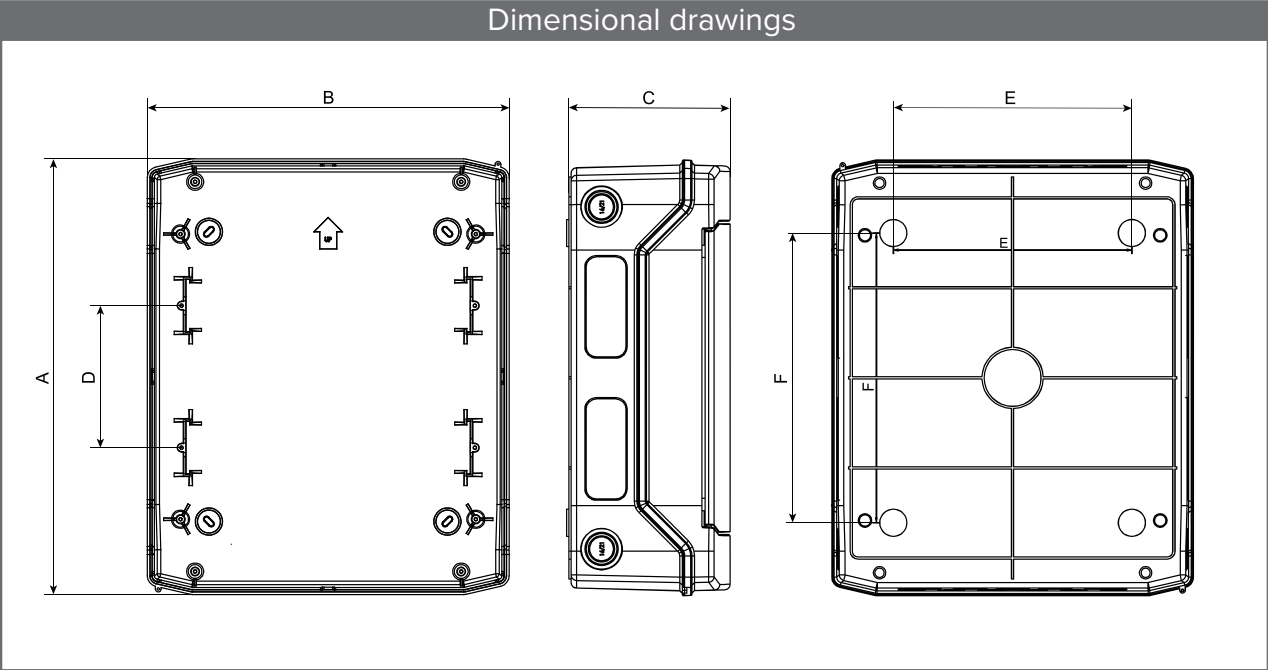
Plastic consumer units, IP65, surface mounted

General parameters
Consumer units for general and industrial applications
Surface mounted version
Scope of delivery: enclosure, door, device DIN rails, N + PE terminals, front cover with device cutout, cover for empty place, mounting material

Electrical parameters	
Tested according to	EN 60670, EN 62208
Rated op. voltage U _n	400 V AC 1500 V DC
Rated current I _n	63 A
Rated frequency	50 Hz
Degree of protection	IP65
Protection class	II
Rated insulating voltage U _i	690 V AC 1500 V DC
Maximum power dissipation of all installed devices at ambient temperature 30 °C	
PHS 4T	10 W
PHS 6T	10 W
PHS 8T	13 W
PHS 12T	16 W
PHS 18T	20 W
PHS 24T	24 W
PHS 36T	26 W
PHS 48T	35 W

Mechanical parameters	
Glow-wire test	650 °C
Mechanical impact resistance	IK08
Used plastics	Halogen-free
Body color	RAL7035
UV stable	Yes
Temperature	-25°C – +60°C
Material	Acrylonitrile styrene acrylate (ASA)

Plastic consumer units, IP65, surface mounted



Dimensions						
Type	Dimensions [mm]					
	A	B	C	D	E	F
PHS 4T	201	128	120	—	—	140
PHS 6T	201	165	118	—	63	140
PHS 8T	201	202	120	—	100	140
PHS 12T	259	319	144	—	210	130
PHS 18T	259	428	144	—	259	130
PHS 24T	384	319	144	125	210	255
PHS 36T	535	319	144	125	210	380
PHS 48T	664	319	144	125	210	505

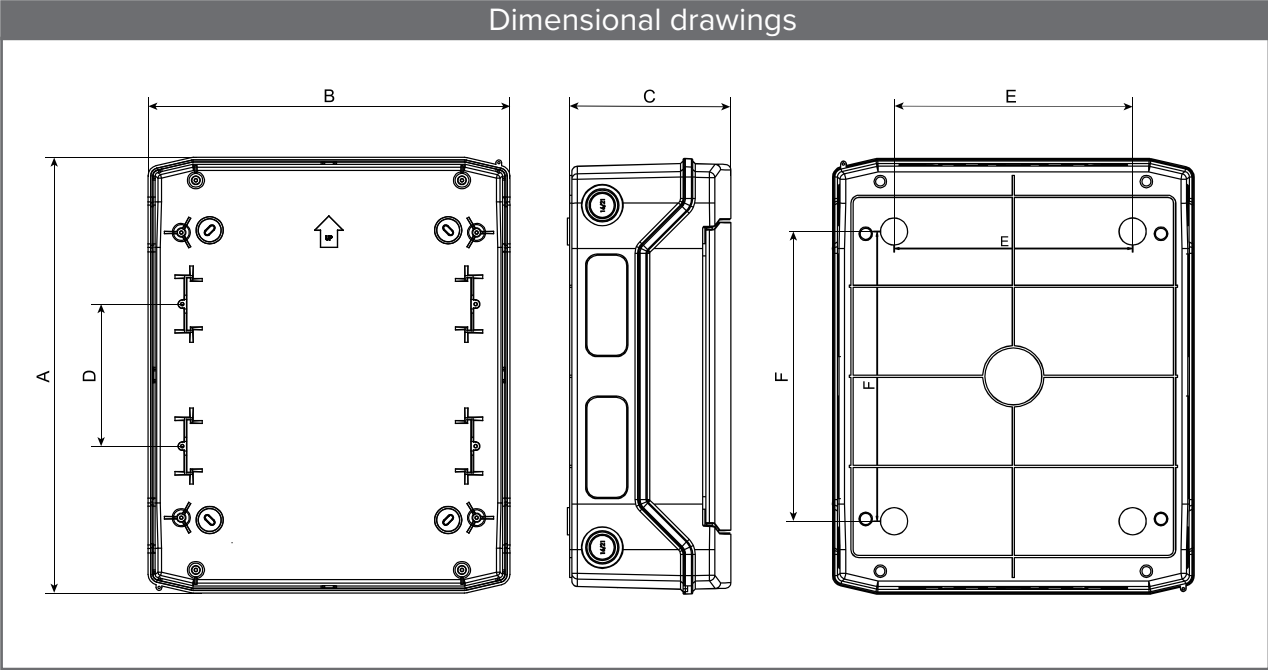
Plastic consumer units, IP65, surface mounted

General parameters	
Consumer units for general and industrial applications	
Surface mounted version	
Increased diameter of terminal bar holes (Φ 7.5 mm)	
Scope of delivery: enclosure, door, device DIN rails, N + PE terminals, front cover with device cutout, cover for empty place, mounting material	

Electrical parameters	
Tested according to	EN 60670, EN 62208
Rated op. voltage U _n	400 V AC 1500 V DC
Rated current I _n	63 A
Rated frequency	50 Hz
Degree of protection	IP65
Protection class	II
Rated insulating voltage U _i	690 V AC 1500 V DC
Maximum power dissipation of all installed devices at ambient temperature 30 °C	
PHS 4T FB	10 W
PHS 6T FB	10 W
PHS 8T FB	13 W
PHS 12T FB	16 W
PHS 18T FB	20 W
PHS 24T FB	24 W
PHS 36T FB	26 W
PHS 48T FB	35 W

Mechanical parameters	
Glow-wire test	650 °C
Mechanical impact resistance	IK08
Used plastics	Halogen-free
Body color	RAL7035
UV stable	Yes
Temperature	-25°C – +60°C
Material	Acrylonitrile styrene acrylate (ASA)

Plastic consumer units, IP65, surface mounted



Dimensions						
Type	Dimensions [mm]					
	A	B	C	D	E	F
PHS 4T FB	201	128	120	—	—	140
PHS 6T FB	201	165	118	—	63	140
PHS 8T FB	201	202	120	—	100	140
PHS 12T FB	259	319	144	—	210	130
PHS 18T FB	259	428	144	—	259	130
PHS 24T FB	384	319	144	125	210	255
PHS 36T FB	508	319	144	125	210	380
PHS 48T FB	664	319	144	125	210	505

Metal (sheet-steel) flat enclosures

General parameters	
Sheet-steel enclosures suitable for various applications mainly in domestic and commercial applications	
Variants for surface and flush mounting, usable also for hollow walls including plasterboard ones	
Removable adjustable doorframe allows to compensate wall surface imperfections, including slight rotation	
Prepared pre-cut openings for conductors or cable grommets	
Wide range of accessories	

Electrical parameters	
Tested according to	EN 62208
Rated operational voltage U _e	400 V AC
Rated frequency	50 Hz
Insulation voltage U _i	415 V AC
Degree of protection	IP30
Degree of protection against external mechanical impact	IK07
Protection class	I
Overvoltage category	IV
Pollution degree	1

Mechanical parameters	
Number of modules (MU) per row	24, 33
Number of rows	2, 3, 4, 5, 6
Mounting	surface and flush-mounting
Mounting depth (EMFF)	118 mm
Door	white sheet-steel
Door opening	left and right
Door load	1 kg
Door to front plates distance EMFF / EMFS	34 / 34 mm
Maximum door opening angle	110°
Used metal material	painting sheet-steel
- enclosure, door, front plates, separators, etc.	thickness 1 mm
- mounting plates	thickness 2 mm
Painted metal parts colour	powder coated, white, flat, RAL 9003

N/PE terminals in the scope of delivery	
Max. rated current of N/PE terminals	63 A
Suitable material of conductors	Cu
Number of N/PE terminal bars	2
Terminal capacity	1x 25 mm ² + 46x 16 mm ²
Width	332 mm

Metal (sheet-steel) flat enclosures

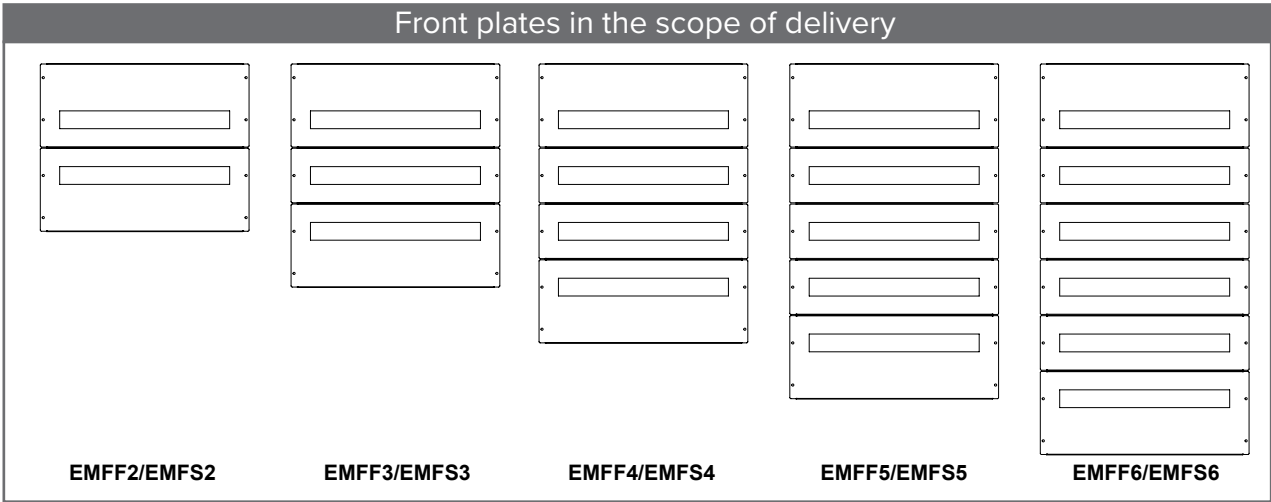
Maximum static load			
Maximum allowed load of all installed devices and other non-standard parts			
EMFF2 48W	10.8 kg	EMFS2 48W	11 kg
EMFF3 72W	15.6 kg	EMFS3 72W	16 kg
EMFF4 96W	20.2 kg	EMFS4 96W	20.8 kg
EMFF5 120W	23.4 kg	EMFS5 120W	24.3 kg
EMFF6 144W	25.9 kg	EMFS6 144W	28 kg
EMFF2 66W	13.9 kg	EMFS2 66W	14.4 kg
EMFF3 99W	20 kg	EMFS3 99W	20.8 kg
EMFF4 132W	25.7 kg	EMFS4 132W	26.7 kg
EMFF5 165W	29.7 kg	EMFS5 165W	32 kg
EMFF6 198W	32 kg	EMFS6 198W	37 kg

Power dissipation			
Maximum power dissipation of all installed devices at ambient temperature 30 °C			
EMFF2 48W	69 W	EMFS2 48W	76 W
EMFF3 72W	82 W	EMFS3 72W	90 W
EMFF4 96W	95 W	EMFS4 96W	105 W
EMFF5 120W	109 W	EMFS5 120W	117 W
EMFF6 144W	123 W	EMFS6 144W	130 W
EMFF2 66W	78 W	EMFS2 66W	88 W
EMFF3 99W	102 W	EMFS3 99W	110 W
EMFF4 132W	120 W	EMFS4 132W	128 W
EMFF5 165W	135 W	EMFS5 165W	141 W
EMFF6 198W	144 W	EMFS6 198W	156 W

Weight			
Total weight of complete enclosure (including doors, front plates, mounting frame, etc.) without devices			
EMFF2 48W	10.5 kg	EMFS2 48W	10.0 kg
EMFF3 72W	13.2 / kg	EMFS3 72W	12.7 kg
EMFF4 96W	15.9 kg	EMFS4 96W	16.8 kg
EMFF5 120W	18.5 kg	EMFS5 120W	17.8 kg
EMFF6 144W	21.1 kg	EMFS6 144W	20.5 kg
EMFF2 66W	12.6 kg	EMFS2 66W	12.2 kg
EMFF3 99W	15.7 kg	EMFS3 99W	15.3 kg
EMFF4 132W	18.8 kg	EMFS4 132W	18.5 kg
EMFF5 165W	21.9 kg	EMFS5 165W	21.8 kg
EMFF6 198W	25.1 kg	EMFS6 198W	24.9 kg

Metal (sheet-steel) flat enclosures

Front plates in the scope of delivery

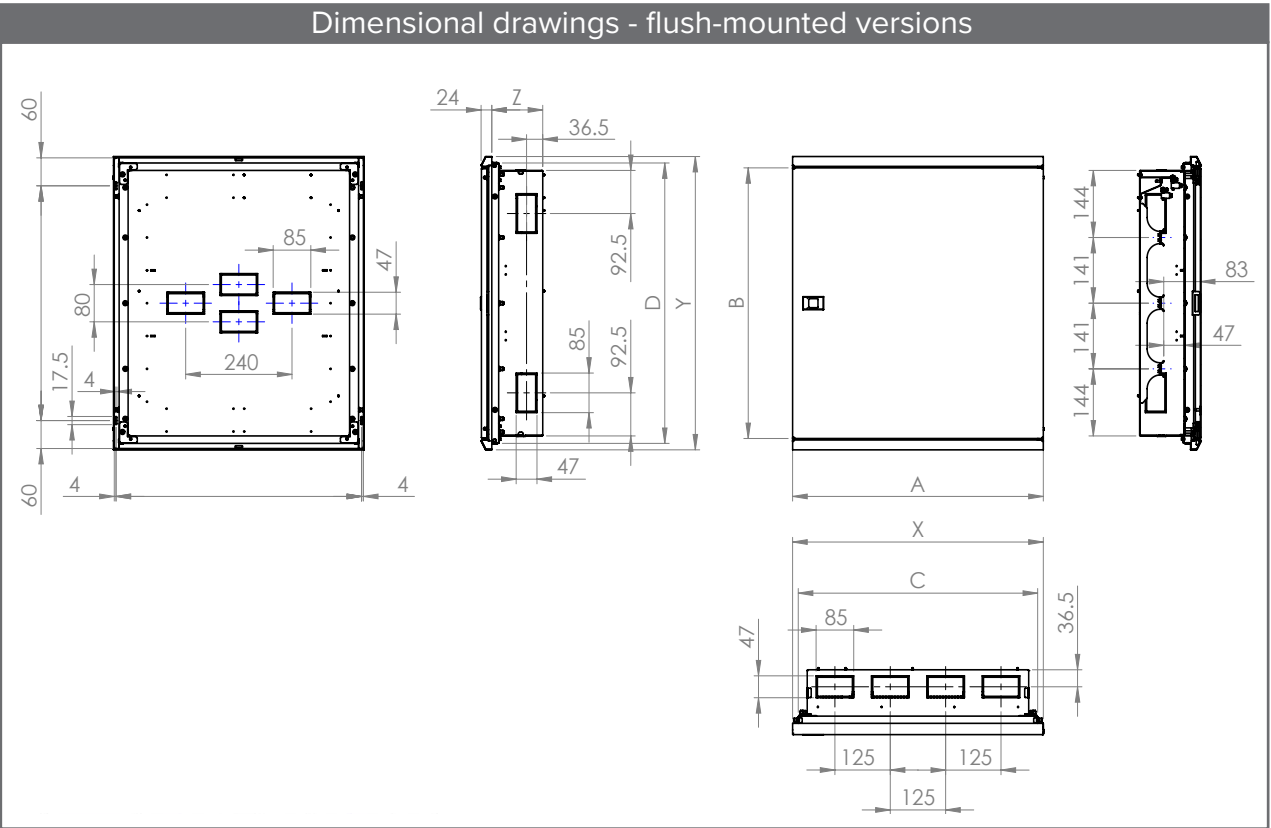


Pre-cut openings for conductors or cable grommets - flush-mounted versions		
EMFF2 48W EMFF3 72W EMFF4 96W EMFF5 120W		4x 47x85 mm (back side, center) + 4x 47x85 mm (top) + 4x 47x85 mm (bottom) + 2x 47x85 mm (left-hand side) + 2x 47x85 mm (right-hand side)
EMFF6 144W		4x 47x85 mm (back side, center) + 4x 47x85 mm (top) + 4x 47x85 mm (bottom) + 2x 47x85 mm (left-hand side) + 2x 47x85 mm (right-hand side)
EMFF2 66W EMFF3 99W EMFF4 132W EMFF5 165W		4x 47x85 mm (back side, center) + 5x 47x85 mm (top) + 5x 47x85 mm (bottom) + 2x 47x85 mm (left-hand side) + 2x 47x85 mm (right-hand side)
EMFF6 198 W		4x 47x85 mm (back side, center) + 5x 47x85 mm (top) + 5x 47x85 mm (bottom) + 3x 47x85 mm (left-hand side) + 3x 47x85 mm (right-hand side)

Pre-cut openings for conductors or cable grommets - surface-mounted versions		
all EMFS variants		4x 47x55.6 mm (back side, center) + 4x 47x85 mm (back size, corners) + 14x round Ø20 mm (top)

Metal (sheet-steel) flat enclosures

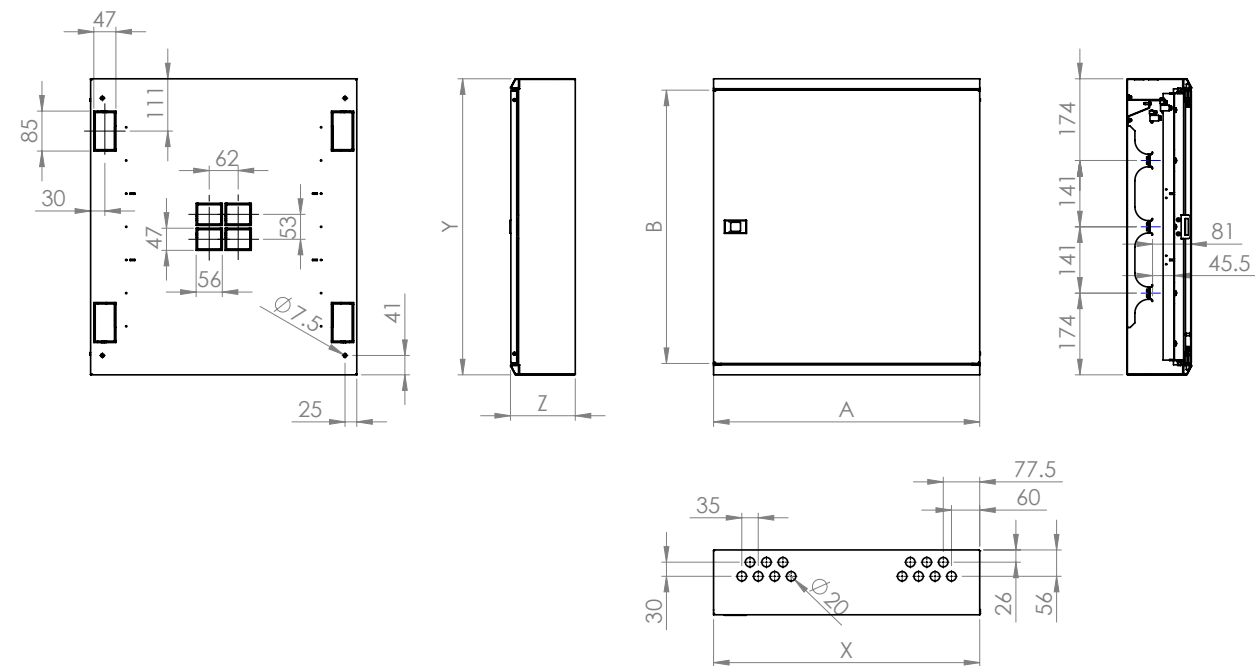
Dimensional drawings - flush-mounted versions



Type	Dimensions [mm]						
	Width (X)	Height (Y)	Mounting depth (Z)	Door width (A)	Door height (B)	Wall opening width (C)	Wall opening height (D)
EMFF2 48W	566	489	115	566	440	541	461
EMFF3 72W	566	630	115	566	581	541	602
EMFF4 96W	566	771	115	566	722	541	743
EMFF5 120W	566	912	115	566	863	541	884
EMFF6 144W	566	1053	115	566	1004	541	1025
EMFF2 66W	730	489	115	730	440	705	461
EMFF3 99W	730	630	115	730	581	705	602
EMFF4 132W	730	771	115	730	722	705	743
EMFF5 165W	730	912	115	730	863	705	884
EMFF6 198W	730	1053	115	730	1004	705	1025

Metal (sheet-steel) flat enclosures

Dimensional drawings - surface-mounted versions



Dimensions

Type	Dimensions [mm]				
	Width (X)	Height (Y)	Depth (Z)	Door width (A)	Door height (B)
EMFS2 48W	566	489	137	566	440
EMFS3 72W	566	630	137	566	581
EMFS4 96W	566	771	137	566	722
EMFS5 120W	566	912	137	566	863
EMFS6 144W	566	1053	137	566	1004
EMFS2 66W	730	489	137	730	440
EMFS3 99W	730	630	137	730	581
EMFS4 132W	730	771	137	730	722
EMFS5 165W	730	912	137	730	863
EMFS6 198W	730	1053	137	730	1004

IP66 Metal enclosures MHS

General parameters

For heavy duty uses with IP66 protection rating, IP55 for big enclosures with double door and IP65 while using a glazed door
Fully welded construction
Top and bottom gland plates with PE gasket for maximum adjustability
Foamed-in door PU sealing gasket

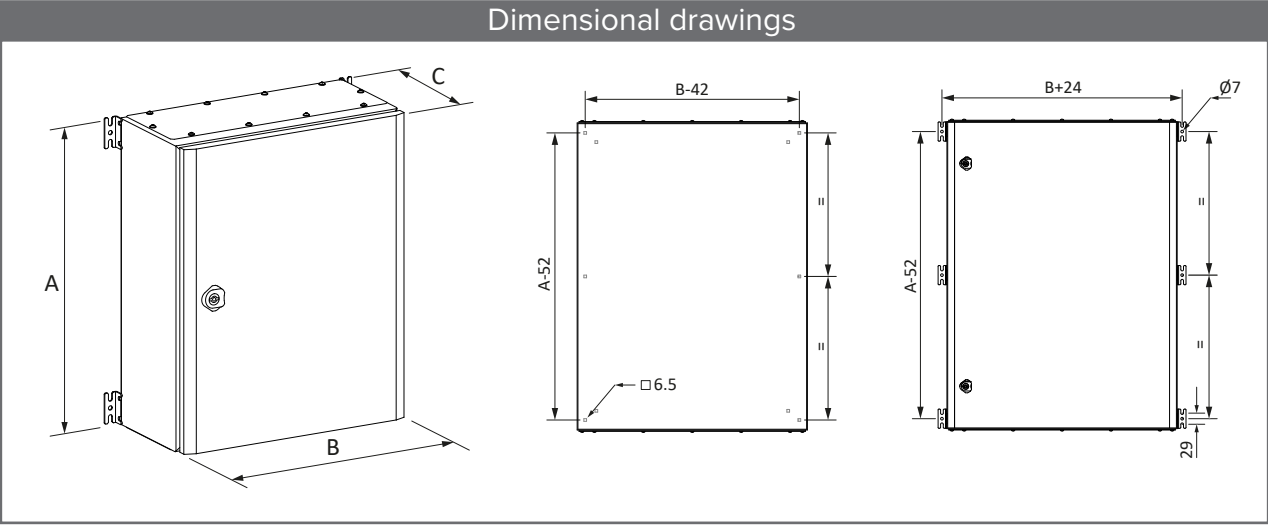
Electrical parameters

Tested according to	IEC/EN 62208
Rated operational voltage U _e	1 000 V AC
Rated frequency f	up to 1 000 Hz
Rated impulse voltage U _{imp}	8 kV
Insulation voltage U _i	1000 V AC
Maximum short-circuit current I _{dc}	35 kA
Degree of protection	IP66 (single door), IP55 (double door) IP65 (with glazed door)
Mechanical impact protection	IK10 (solid door)
Insulation class	I

Mechanical parameters

Material of enclosure	sheet steel
Thickness of body and door	1.2 or 1.5 mm
Maximum door opening angle	155°
Colour	RAL 7035
Material of mounting plate	galvanized steel
Thickness of mounting plate	1.5 or 2 mm
Ambient temperature	-40 – +100 °C

IP66 Metal enclosures MHS



IP66 Metal enclosures MHS

Type	Dimensions [mm]			Dimensions								
	A	B	C	Door	Lock	Hinge	Wall bracket	Glazed door	Cover plate*	Rain canopy	Power dissipation [W]	Weight [kg]
MHS 30 20 15	300	200	150	1	1	2	4	—	—	—	10	4.2
MHS 30 30 15	300	300	150	1	1	2	4	•	—	•	16	5.6
MHS 30 30 20	300	300	200	1	1	2	4	•	•	•	18	6.3
MHS 40 30 15	400	300	150	1	1	2	4	•	—	•	19	7.0
MHS 40 30 20	400	300	200	1	1	2	4	•	•	•	21	7.9
MHS 40 40 20	400	400	200	1	1	2	4	•	•	•	26	9.8
MHS 50 40 15	500	400	150	1	1	2	4	•	—	•	27	10.5
MHS 50 40 20	500	400	200	1	1	2	4	•	•	•	29	11.6
MHS 60 40 20	600	400	200	1	2	2	4	•	•	•	38	13.5
MHS 60 40 30	600	400	300	1	2	2	4	•	•	•	41	15.6
MHS 60 50 20	600	500	200	1	2	2	4	•	•	•	41	16.2
MHS 60 60 20	600	600	200	1	2	2	4	•	•	•	49	20.6
MHS 60 60 30	600	600	300	1	2	2	4	•	•	•	55	23.2
MHS 60 80 30	600	800	300	2	1	4	6	•	•	•	65	28.3
MHS 70 50 20	700	500	200	1	2	3	4	•	•	•	46	18.5
MHS 70 50 30	700	500	300	1	2	3	4	•	•	•	53	21.2
MHS 80 60 20	800	600	200	1	2	3	6	•	•	•	56	26.2
MHS 80 60 30	800	600	300	1	2	3	6	•	•	•	63	29.0
MHS 100 60 20	1000	600	200	1	2	3	6	•	•	•	66	35.0
MHS 100 60 30	1000	600	300	1	2	3	6	•	•	•	69	35.2
MHS 100 80 30	1000	800	300	1	2	4	6	•	—	•	96	45.3
MHS 100 100 30	1000	1000	300	2	1	4+4	6	—	—	•	117	60.0
MHS 120 60 30	1200	600	300	1	2	4	6	•	•	•	77	39.7
MHS 120 80 30	1200	800	300	1	2	4	6	•	—	•	105	59.0
MHS 120 80 40	1200	800	400	1	2	4	6	•	—	—	205	72.5
MHS 120 100 30	1200	1000	300	2	1	4+4	6	—	—	•	140	70.0
MHS 120 100 40	1200	1000	400	2	1	4+4	6	—	—	—	259	83.5
MHS 120 120 30	1200	1200	300	2	1	4+4	6	—	—	—	262	87.5
MHS 120 120 40	1200	1200	400	2	1	4+4	6	—	—	—	286	87.5

* Total height of cover plates must be at least 20 mm less than height of enclosure

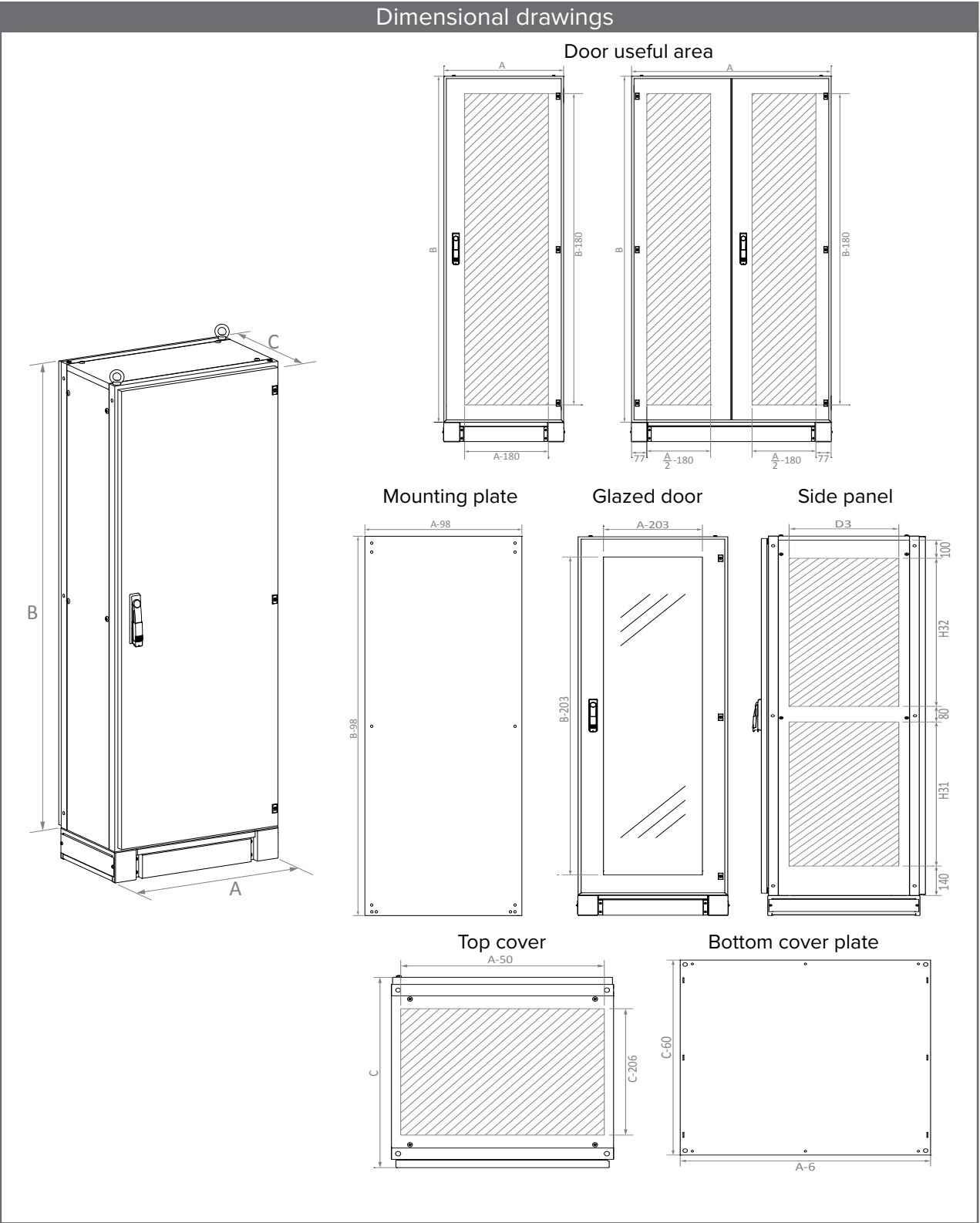
Modular stand-alone enclosures

General parameters	
For heavy duty uses with IP55 protection rating	
Modular construction for customization	
Foamed-in door and rear panel PU sealing gasket	
Swing-handle polyamide lock (3 point locking, 333 key)	

Electrical parameters	
Tested according to	IEC/EN 62208
Rated operational voltage U _e	1 000 V AC
Rated frequency f _e	up to 1 000 Hz
Rated impulse voltage U _{imp}	8 kV
Insulation voltage U _i	1000 V AC
Maximum short-circuit current I _{dc}	35 kA
Degree of protection	IP55 (single door) IP55 (double door) IP55 (with glazed door)
Mechanical impact protection	IK10 (solid door)
Insulation class	I

Mechanical parameters	
Material of enclosure	sheet steel
Thickness of frame/panel/door/plinth	1.5 / 1.5 / 2.0 / 2.0 mm
Maximum door opening angle	135°
Colour	RAL 7035wp
Material of mounting plate	galvanized steel
Thickness of mounting plate	2 mm
Ambient temperature	-40 — +100 °C

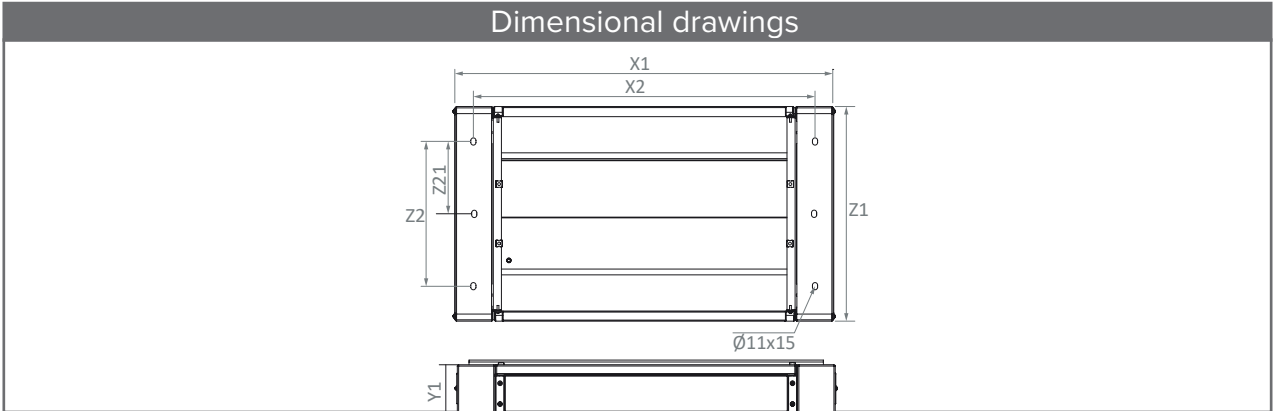
Modular stand-alone enclosures



Modular stand-alone enclosures

Dimensions						
Type	Door	Hinge	Glazed Door	Height (B) [mm]	Width (A) [mm]	Depth (C) [mm]
SHA 180 40 40	1	3	.	1800	400	400
SHA 180 40 60	1	3	.	1800	400	600
SHA 180 40 80	1	3	.	1800	400	800
SHA 180 60 40	1	3	.	1800	600	400
SHA 180 60 60	1	3	.	1800	600	600
SHA 180 60 80	1	3	.	1800	600	800
SHA 180 80 40	1	3	.	1800	800	400
SHA 180 80 60	1	3	.	1800	800	600
SHA 180 80 80	1	3	.	1800	800	800
SHA 180 100 40	2	3+3		1800	1000	400
SHA 180 100 60	2	3+3		1800	1000	600
SHA 180 100 80	2	3+3		1800	1000	800
SHA 180 120 40	2	3+3		1800	1200	400
SHA 180 120 60	2	3+3		1800	1200	600
SHA 180 120 80	2	3+3		1800	1200	800
SHA 200 40 40	1	3	.	2000	400	400
SHA 200 40 60	1	3	.	2000	400	600
SHA 200 40 80	1	3	.	2000	400	800
SHA 200 60 40	1	3	.	2000	600	400
SHA 200 60 60	1	3	.	2000	600	600
SHA 200 60 80	1	3	.	2000	600	800
SHA 200 80 40	1	3	.	2000	800	400
SHA 200 80 60	1	3	.	2000	800	600
SHA 200 80 80	1	3	.	2000	800	800
SHA 200 100 40	2	3+3		2000	1000	400
SHA 200 100 60	2	3+3		2000	1000	600
SHA 200 100 80	2	3+3		2000	1000	800
SHA 200 120 40	2	3+3		2000	1200	400
SHA 200 120 60	2	3+3		2000	1200	600
SHA 200 120 80	2	3+3		2000	1200	800

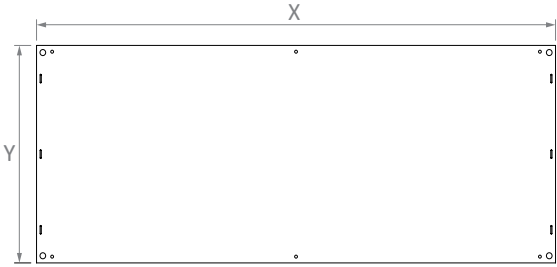
Plinth



Dimensions									
Type	Connection			Width (A) [mm]	Height (Y1) [mm]	Depth (C) [mm]	Width (X1) [mm]	Length (Z1) [mm]	Weight [kg]
	X2 [mm]	Z2 [mm]	Z21 [mm]						
PL SHA 10 40 40	325	200	100	400	100	400	400	345	5.7
PL SHA 10 40 60	325	400	200	400	100	600	400	545	8.4
PL SHA 10 40 80	325	600	300	400	100	800	400	745	11
PL SHA 10 60 40	525	200	100	600	100	400	600	345	8.1
PL SHA 10 60 50	525	300	150	600	100	500	600	445	9.4
PL SHA 10 60 60	525	400	200	600	100	600	600	545	10.8
PL SHA 10 60 80	525	600	300	600	100	800	600	745	13.4
PL SHA 10 80 40	725	200	100	800	100	400	800	345	10.5
PL SHA 10 80 50	725	300	150	800	100	500	800	445	11.8
PL SHA 10 80 60	725	400	200	800	100	600	800	545	13.1
PL SHA 10 80 80	725	600	300	800	100	800	800	745	15.8
PL SHA 10 100 40	925	200	100	1000	100	400	1000	345	12.9
PL SHA 10 100 50	925	300	150	1000	100	500	1000	445	14.2
PL SHA 10 100 60	925	400	200	1000	100	600	1000	545	15.5
PL SHA 10 100 80	925	600	300	1000	100	800	1000	745	18.2
PL SHA 10 120 40	1125	200	100	1200	100	400	1200	345	15.3
PL SHA 10 120 50	1125	300	150	1200	100	500	1200	445	16.6
PL SHA 10 120 60	1125	400	200	1200	100	600	1200	545	17.9
PL SHA 10 120 80	1125	600	300	1200	100	800	1200	745	20.6
PL SHA 20 40 40	325	200	100	400	200	400	400	345	7.4
PL SHA 20 40 60	325	400	200	400	200	600	400	545	10.1
PL SHA 20 40 80	325	600	300	400	200	800	400	745	12.7
PL SHA 20 60 40	525	200	100	600	200	400	600	345	9.8
PL SHA 20 60 60	525	400	200	600	200	600	600	545	12.5
PL SHA 20 60 80	525	600	300	600	200	800	600	745	15.1
PL SHA 20 80 40	725	200	100	800	200	400	800	345	12.2
PL SHA 20 80 60	725	400	200	800	200	600	800	545	14.8
PL SHA 20 80 80	725	600	300	800	200	800	800	745	17.5
PL SHA 20 100 40	925	200	100	1000	200	400	1000	345	14.6
PL SHA 20 100 60	925	400	200	1000	200	600	1000	545	17.2
PL SHA 20 100 80	925	600	300	1000	200	800	1000	745	19.9
PL SHA 20 120 40	1125	200	100	1200	200	400	1200	345	17
PL SHA 20 120 60	1125	400	200	1200	200	600	1200	545	19.6
PL SHA 20 120 80	1125	600	300	1200	200	800	1200	745	22.3

Bottom cover plate

Dimensional drawings

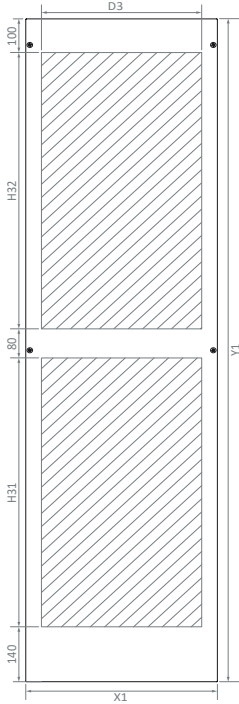


Dimensions

Type	Width (A) [mm]	Depth (C) [mm]	Width (X) [mm]	Length (Y) [mm]	Weight [kg]
PL SHA 40 40	400	400	395	340	2.2
PL SHA 40 60	400	600	395	540	3.5
PL SHA 40 80	400	800	395	740	4.7
PL SHA 60 40	600	400	595	340	3.3
PL SHA 60 60	600	600	595	540	5.2
PL SHA 60 80	600	800	595	740	7.1
PL SHA 80 40	800	400	795	340	4.4
PL SHA 80 60	800	600	795	540	6.9
PL SHA 80 80	800	800	795	740	9.4
PL SHA 100 40	1000	400	995	340	5.5
PL SHA 100 60	1000	600	995	540	8.6
PL SHA 100 80	1000	800	995	740	11.8
PL SHA 120 40	1200	400	1195	340	6.6
PL SHA 120 60	1200	600	1195	540	10.4
PL SHA 120 80	1200	800	1195	740	14.2

Side panels

Dimensional drawings

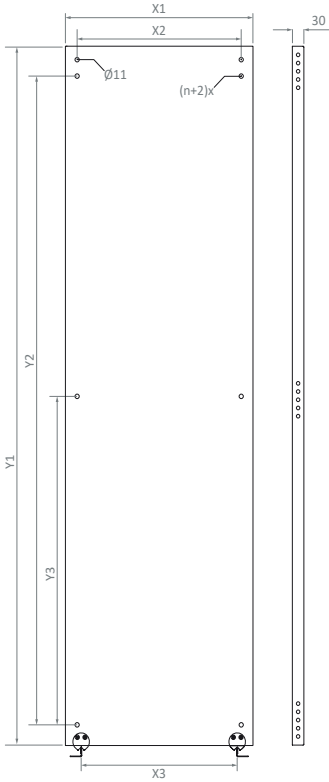


Dimensions

Type	Useful Area			Height (B) [mm]	Depth (C) [mm]	Width (X1) [mm]	Length (Y1) [mm]	Weight [kg]
	D3 [mm]	H31 [mm]	H32 [mm]					
SP SHA 180 40	194	720	740	1800	400	270	1780	6.5
SP SHA 180 60	394	720	740	1800	600	470	1780	10.8
SP SHA 180 80	594	720	740	1800	800	670	1780	15.4
SP SHA 200 40	194	840	820	2000	400	270	1980	7.5
SP SHA 200 60	394	840	820	2000	600	470	1980	12
SP SHA 200 80	594	840	820	2000	800	670	1980	16.9

Mounting plate

Dimensional drawings

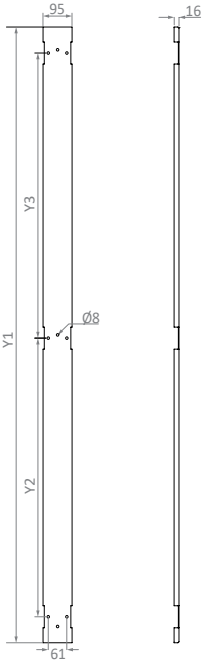


Dimensions

Type	Connection					Width (A) [mm]	Height (B) [mm]	Width (X1) [mm]	Length (Y1) [mm]	Weight [kg]
	X2 [mm]	Y2 [mm]	X3 [mm]	Y3 [mm]	n					
MBP SHA 180 60	241	1780	220	900	6	600	1800	502	1702	16
MBP SHA 180 80	441	1580	420	800	6	800	1800	702	1702	21.6
MBP SHA 180 100	441	1780	420	900	6	1000	1800	902	1702	27.2
MBP SHA 180 120	641	1580	620	800	6	1200	1800	1102	1702	32.8
MBP SHA 200 40	641	1780	620	900	6	400	2000	302	1902	11.6
MBP SHA 200 60	841	1580	820	800	6	600	2000	502	1902	17.8
MBP SHA 200 80	841	1780	820	900	6	800	2000	702	1902	24.2
MBP SHA 200 100	1041	1580	1020	800	6	1000	2000	902	1902	30.3
MBP SHA 200 120	1041	1780	1020	900	6	1200	2000	1102	1902	36.6

Infill mounting plate

Dimensional drawings

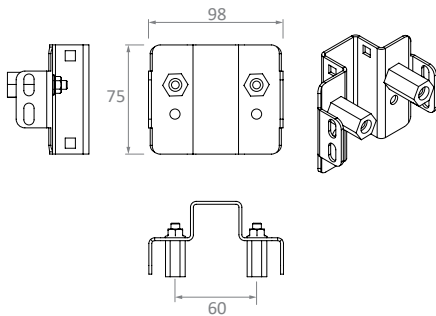


Dimensions

Type	Connection		Height (B) [mm]	Length (Y1) [mm]	Weight [kg]
	Y2 [mm]	Y3 [mm]			
IMP SHA 180	780	760	1800	1700	4
IMP SHA 200	860	880	2000	1900	4.8

Infill support (bracket)

Dimensional drawings

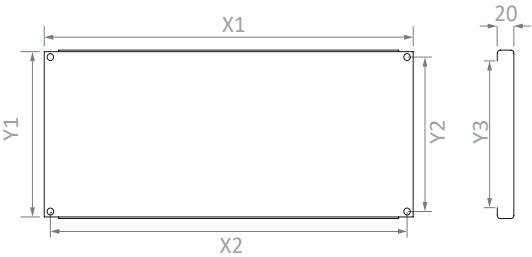


Dimensions

Type	Weight [kg]
ISP SHA	0.2

Partial mounting plate

Dimensional drawings

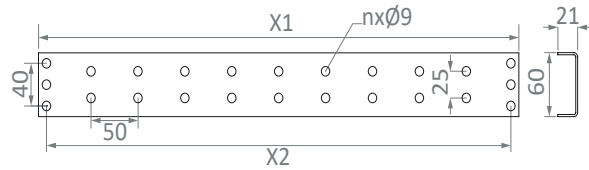


Dimensions

Type	Connection		Width (A) [mm]	Width (X1) [mm]	Length (Y1) [mm]	Length (Y3) [mm]	Weight [kg]
	X2 [mm]	Y2 [mm]					
PBP SHA 60 16	495	140	600	512	160	130	1.7
PBP SHA 60 22	495	200	600	512	220	190	2.2
PBP SHA 60 28	495	260	600	512	280	250	2.7
PBP SHA 60 36	495	340	600	512	360	330	3.3
PBP SHA 80 16	695	140	800	712	160	130	2.4
PBP SHA 80 22	695	200	800	712	220	190	3.1
PBP SHA 80 28	695	260	800	712	280	250	3.8
PBP SHA 80 36	695	340	800	712	360	330	4.7
PBP SHA 100 16	895	140	1000	912	160	130	3.1
PBP SHA 100 22	895	200	1000	912	220	190	4
PBP SHA 100 28	895	260	1000	912	280	250	4.8
PBP SHA 100 36	895	340	1000	912	360	330	6
PBP SHA 120 16	1095	140	1200	1112	160	130	3.8
PBP SHA 120 22	1095	200	1200	1112	220	190	4.8
PBP SHA 120 28	1095	260	1200	1112	280	250	5.9
PBP SHA 120 36	1095	340	1200	1112	360	330	7.3
PBP SHA 60 10	495	80	600	512	100	70	1
PBP SHA 60 20	495	180	600	512	200	170	2
PBP SHA 60 30	495	280	600	512	300	270	3
PBP SHA 60 40	495	380	600	512	400	370	4
PBP SHA 80 10	695	80	800	712	100	70	2
PBP SHA 80 20	695	180	800	712	200	170	3
PBP SHA 80 30	695	280	800	712	300	270	4
PBP SHA 80 40	695	380	800	712	400	370	5
PBP SHA 100 10	895	80	1000	912	100	70	3
PBP SHA 100 20	895	180	1000	912	200	170	3.5
PBP SHA 100 30	895	280	1000	912	300	270	4
PBP SHA 100 40	895	380	1000	912	400	370	5
PBP SHA 120 10	1095	80	1200	1112	100	70	3.5
PBP SHA 120 20	1095	180	1200	1112	200	170	4.3
PBP SHA 120 30	1095	280	1200	1112	300	270	5
PBP SHA 120 40	1095	380	1200	1112	400	370	6

Partial mounting plate

Dimensional drawings

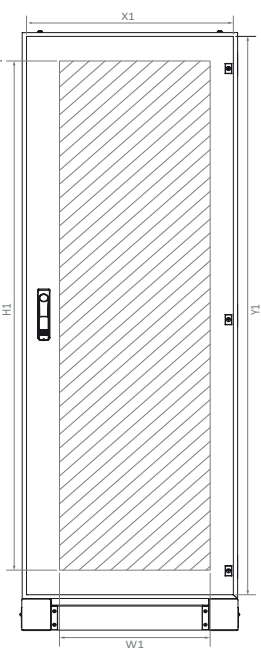


Dimensions

Type	Connection	Width (A) [mm]	Length (X1) [mm]	Weight [kg]
	X2 [mm]			
PBP SHA 60 06	495	600	512	0.7
PBP SHA 80 06	695	800	712	1
PBP SHA 100 06	895	1000	912	1.3
PBP SHA 120 06	1095	1200	1112	1.5

Solid door

Dimensional drawings

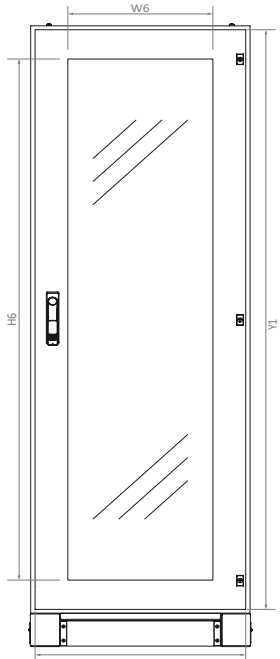


Dimensions

Type	Door	Hinge	Lock Type	Useful Area				Width (A) [mm]	Height (B) [mm]	Width (X1) [mm]	Length (Y1) [mm]	Weight [kg]
				W1 [mm]	W11 [mm]	W12 [mm]	H1 [mm]					
SSD SHA 180 40	1	3	I	220	-	-	1620	400	1800	376	1776	12.9
SSD SHA 200 40	1	3	I	220	-	-	1820	400	2000	376	1976	14.2
SSD SHA 180 60	1	3	I	420	-	-	1620	600	1800	576	1776	15.2
SSD SHA 200 60	1	3	I	420	-	-	1820	600	2000	576	1976	16.5
SSD SHA 180 80	1	3	I	620	-	-	1620	800	1800	776	1776	28.5
SSD SHA 200 80	1	3	I	620	-	-	1820	800	2000	776	1976	31.4
SSD SHA 180 100	2	3+3	I	-	320	320	1620	1000	1800	976	1776	37
SSD SHA 200 100	2	3+3	I	-	320	320	1820	1000	2000	976	1976	40
SSD SHA 180 120	2	3+3	I	-	420	420	1620	1200	1800	1176	1776	41.6
SSD SHA 200 120	2	3+3	I	-	420	420	1820	1200	2000	1176	1976	46.2

Glazed door

Dimensional drawings

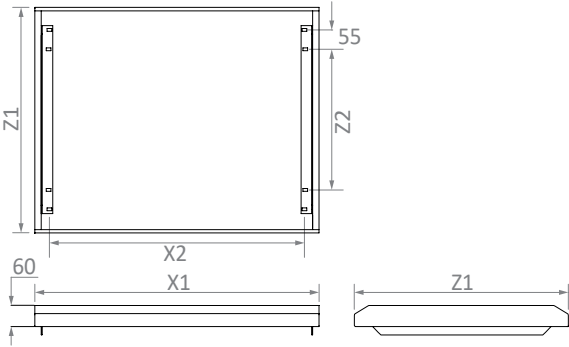


Dimensions

Type	Door	Hinge	Lock Type	Transparent Area		Width (A) [mm]	Height (B) [mm]	Width (X1) [mm]	Length (Y1) [mm]	Weight [kg]
				W1 [mm]	H1 [mm]					
GSD SHA 180 40	1	3	I	197	1597	400	1800	376	1776	12.9
GSD SHA 200 40	1	3	I	197	1797	400	2000	376	1976	14.2
GSD SHA 180 60	1	3	I	397	1597	600	1800	576	1776	15.2
GSD SHA 200 60	1	3	I	397	1797	600	2000	576	1976	16.5
GSD SGA 180 80	1	3	I	597	1597	800	1800	776	1776	28.5
GSD SGA 200 80	1	3	I	597	1797	800	2000	776	1976	31.4

Rain canopy

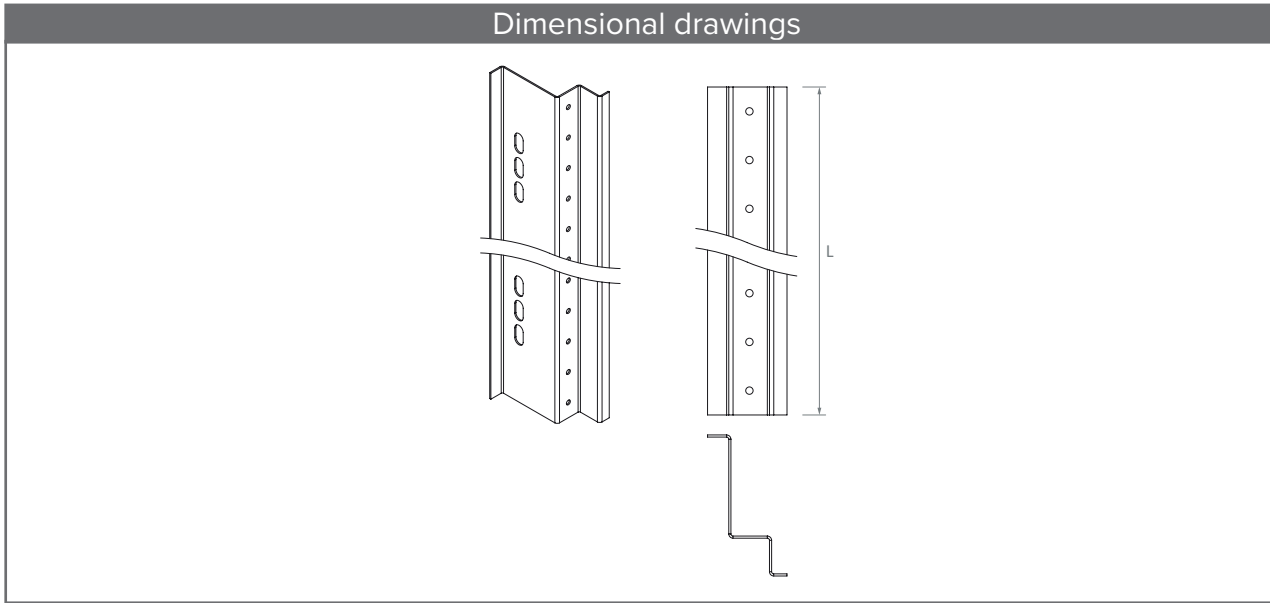
Dimensional drawings



Dimensions

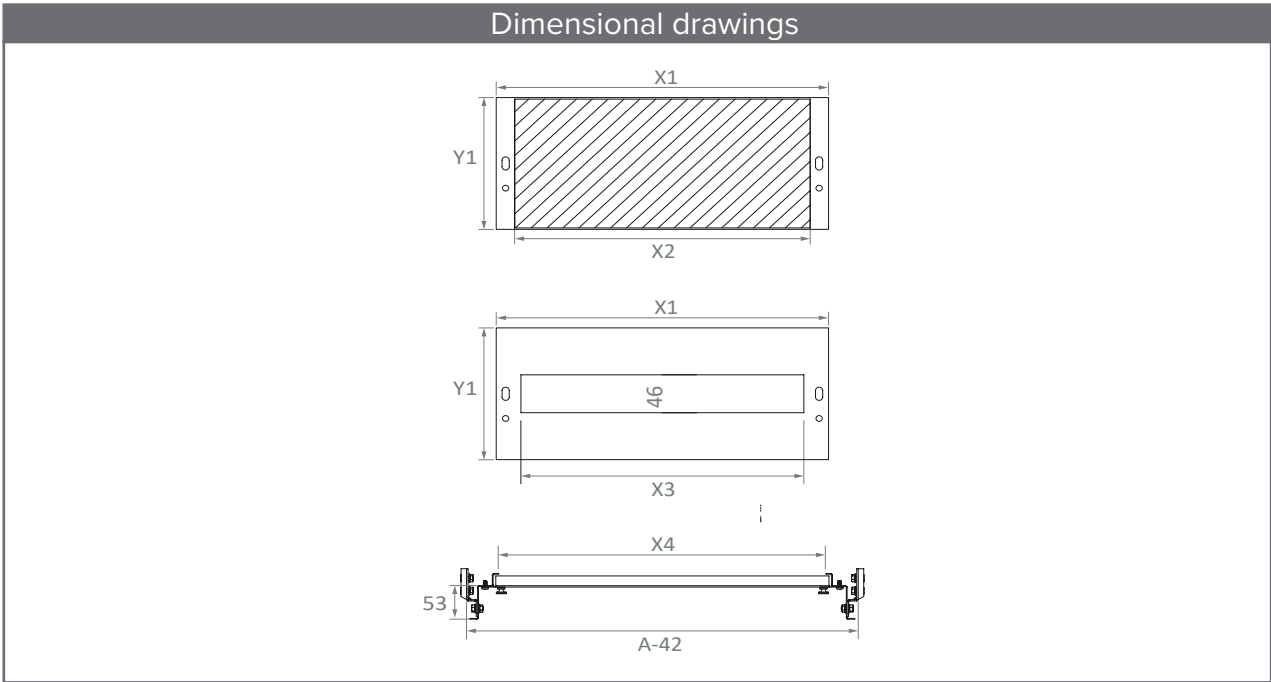
Type	Connection		Width (A) [mm]	Depth (C) [mm]	Width (X1) [mm]	Length (Z1) [mm]	Weight [kg]
	X2 [mm]	Z2 [mm]					
RC SHA 40 40	363	199	400	400	450	440	3
RC SHA 40 60	363	399	400	600	450	640	4.8
RC SHA 40 80	363	599	400	800	450	840	6.5
RC SHA 60 40	563	199	600	400	650	440	4.4
RC SHA 60 60	563	399	600	600	650	640	6.1
RC SHA 60 80	563	599	600	800	650	840	7.9
RC SHA 80 40	763	199	800	400	850	440	5.8
RC SHA 80 60	763	399	800	600	850	640	7.5
RC SHA 80 80	763	599	800	800	850	840	9.3
RC SHA 100 40	963	199	1000	400	1050	440	7.2
RC SHA 100 60	963	399	1000	600	1050	640	8.9
RC SHA 100 80	963	599	1000	800	1050	840	10.6
RC SHA 120 40	1163	199	1200	400	1250	440	8.5
RC SHA 120 60	1163	399	1200	600	1250	640	10.3
RC SHA 120 80	1163	599	1200	800	1250	840	12

Screw type cover plate profiles



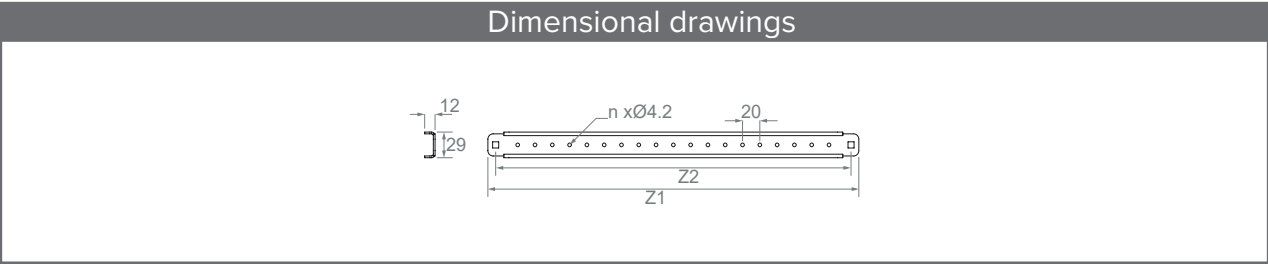
Dimensions			
Type	Height (B) [mm]	Length (L) [mm]	Weight [mm]
SC SHA 180 N	1800	1750	2.2
SC SHA 200 N	2000	1950	2.5

Screw type cover plates



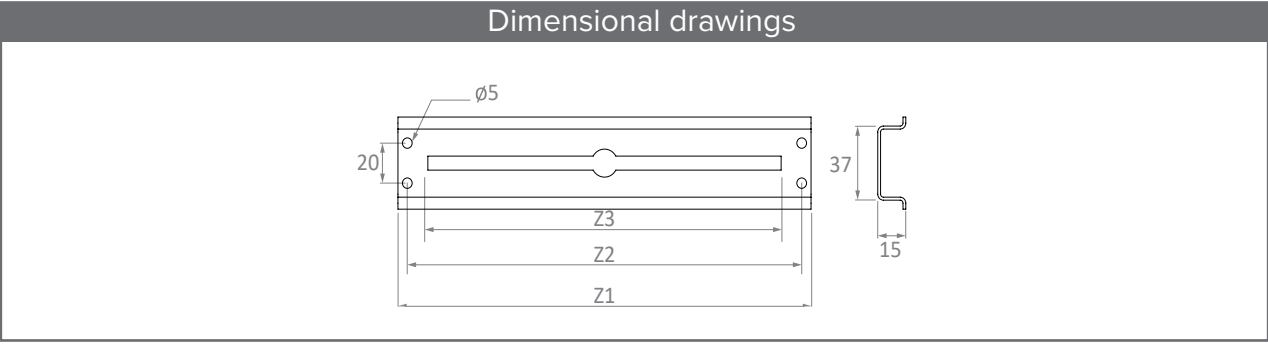
Dimensions							
Type	Useful Area			Width (A) [mm]	Length		Weight [kg]
	X2 [mm]	X3 [modules]	X4 [mm]		X1 [mm]	Y1 [mm]	
CP SHA 15 60 N	-	22	440	600	516	150	0.5
CP SHA 15 80 N	-	33	640	800	716	150	0.7
CPP SHA 02 60 N	425	-	440	600	516	25	0.5
CPP SHA 10 60 N	425	-	440	600	516	100	0.7
CPP SHA 15 60 N	425	-	440	600	516	150	0.8
CPP SHA 20 60 N	425	-	440	600	516	200	0.9
CPP SHA 30 60 N	425	-	440	600	516	300	1.3
CPP SHA 40 60 N	425	-	440	600	516	400	1.7
CPP SHA 50 60 N	425	-	440	600	516	500	2.2
CPP SHA 02 80 N	625	-	640	800	516	25	0.7
CPP SHA 10 80 N	625	-	640	800	716	100	0.7
CPP SHA 15 80 N	625	-	640	800	716	150	0.8
CPP SHA 20 80 N	625	-	640	800	716	200	0.9
CPP SHA 30 80 N	625	-	640	800	716	300	1.3
CPP SHA 40 80 N	625	-	640	800	716	400	1.7
CPP SHA 50 80 N	625	-	640	800	716	500	2.2
CPP SHA 02 100 N	825	-	840	1000	916	25	0.9
CPP SHA 20 100 N	825	-	840	1000	916	200	1.3
CPP SHA 30 100 N	825	-	840	1000	916	300	1.7
CPP SHA 40 100 N	825	-	840	1000	916	400	2.2
CPP SHA 50 100 N	825	-	840	1000	916	500	2.5
CPP SHA 02 120 N	1025	-	1040	1200	1116	25	1.2
CPP SHA 20 120 N	1025	-	1040	1200	1116	200	1.7
CPP SHA 30 120 N	1025	-	1040	1200	1116	300	2.2
CPP SHA 40 120 N	1025	-	1040	1200	1116	400	2.5
CPP SHA 50 120 N	1025	-	1040	1200	1116	500	2.9

Infill depth profiles



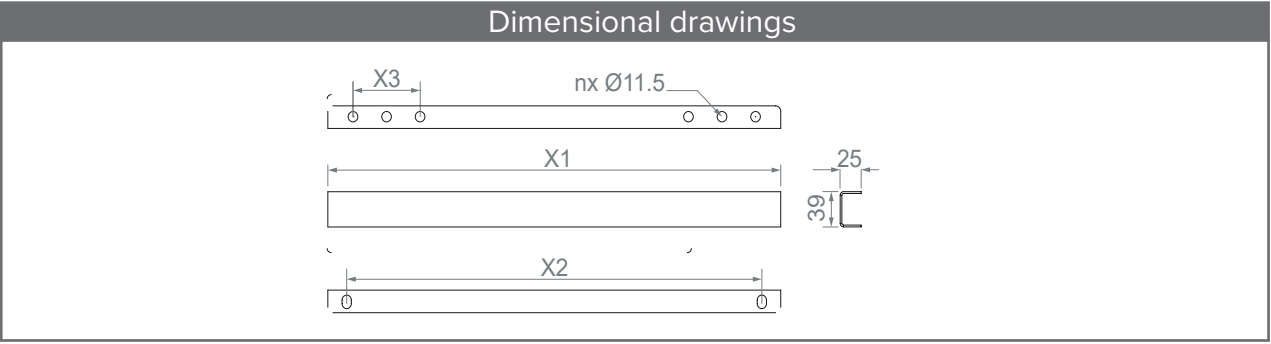
Type	Connection		Depth (C) [mm]	Length (Z1) [mm]	Weight [kg]
	Z2 [mm]	n			
IP SHA 40	211	9	400	228	0.3
IP SHA 60	411	19	600	428	0.6
IP SHA 80	611	29	800	628	0.9

Side rails



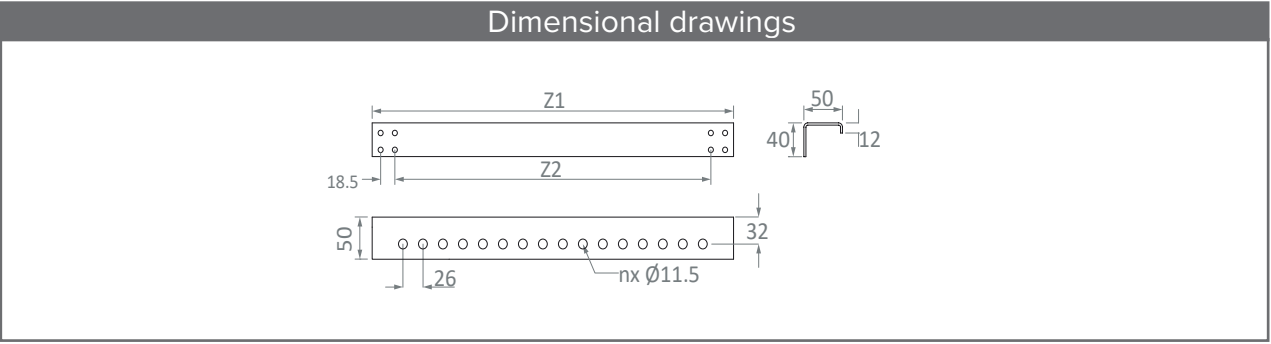
Type	Connection		Depth (C) [mm]	Length (Z1) [mm]	Weight [kg]
	Z2 [mm]	Z3 [mm]			
SR SHA 40	211	192	400	224	0.2
SR SHA 60	411	392	600	424	0.4
SR SHA 80	611	592	800	624	0.6

U profile



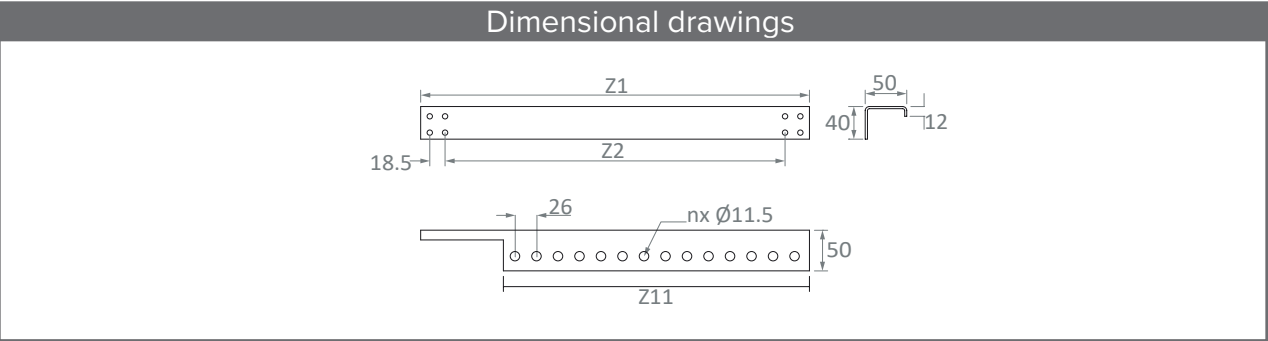
Dimensions						
Type	Connection			Width (A) [mm]	Length (Z1) [mm]	Weight [kg]
	X2 [mm]	X3 [mm]	n			
UP SHA 60	495	80	6	600	540	0.9
UP SHA 80	695	80	6	800	740	1.2
UP SHA 1000	895	80	6	1000	940	1.5
UP SHA 1200	1095	80	6	1200	1140	1.8

Busbar & depth profiles



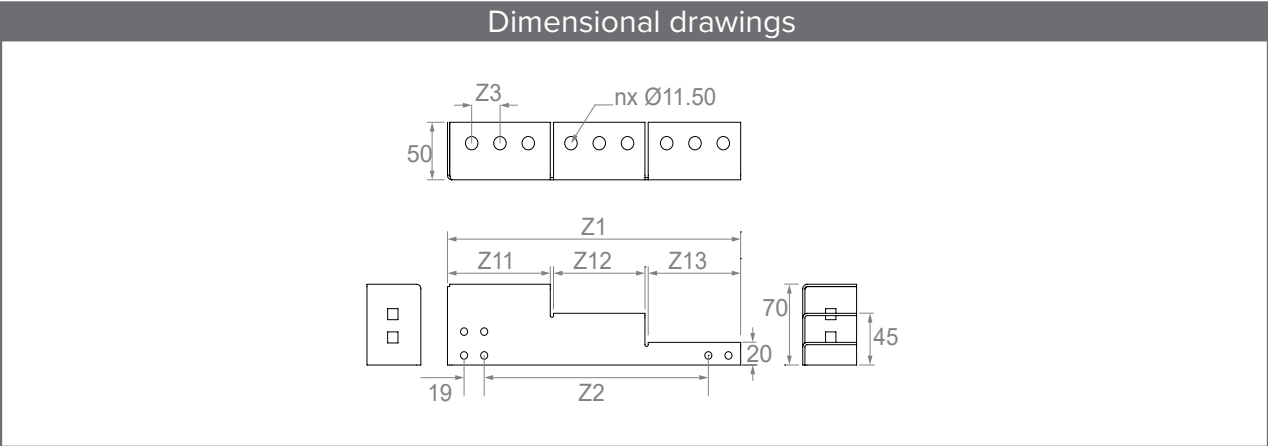
Dimensions					
Type	Connection		Depth (C) [mm]	Length (Z1) [mm]	Weight [kg]
	Z2 [mm]	n			
BB SHA 40	211	8	400	270	0.4
BB SHA 60	411	16	600	470	0.8
BB SHA 80	611	24	800	670	1.2

Notched busbar & depth profile



Type	Connection			Depth (C) [mm]	Length (Z1) [mm]	Weight [kg]
	Z11 [mm]	Z2 [mm]	n			
NBL SHA 40	170	211	6	400	270	0.4
NBR SHA 40	170	211	6	400	270	0.4
NBL SHA 60	370	411	14	600	470	0.7
NBR SHA 60	370	411	14	600	470	0.7
NBL SHA 80	570	611	22	800	670	1.1
NBR SHA 80	570	611	22	800	670	1.1

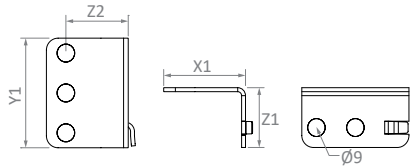
Ladder busbar profiles



Type	Connection						Depth (C) [mm]	Length (Z1) [mm]	Weight [kg]
	Z11 [mm]	Z12 [mm]	Z13 [mm]	Z2 [mm]	Z3 [mm]	n			
LBL SHA 40	85	85	92	211	26	3	400	270	0.7
LBR SHA 40	85	85	92	211	26	3	400	270	0.7
LBL SHA 60	155	155	152	411	26	4	600	470	0.9
LBR SHA 60	155	155	152	411	26	4	600	470	0.9
LBL SHA 80	220	225	217	611	26	7	800	670	1
LBR SHA 80	220	225	217	611	26	7	800	670	1

L brackets

Dimensional drawings

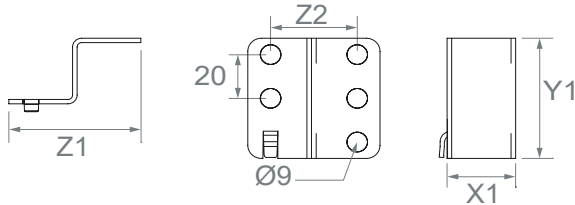


Dimensions

Type	Length			Connection	Weight [kg]
	X1 [mm]	Y1 [mm]	Z1 [mm]	Z2 [mm]	
LBL SHA 42 30	42	55	50	32	0.1
LBR SHA 42 30	42	55	50	32	0.1
LBL SHA 42 50	42	55	50	32	0.1
LBR SHA 42 50	42	55	50	32	0.1
LBL SHA 42 90	42	55	50	32	0.1
LBR SHA 42 90	42	55	50	32	0.1

Z Brackets

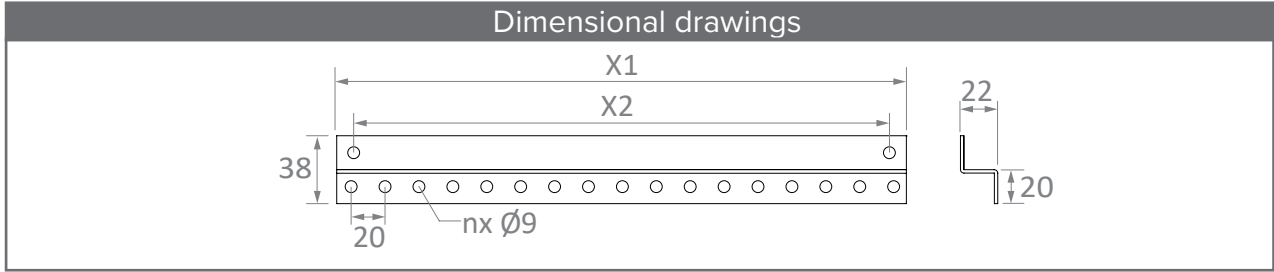
Dimensional drawings



Dimensions

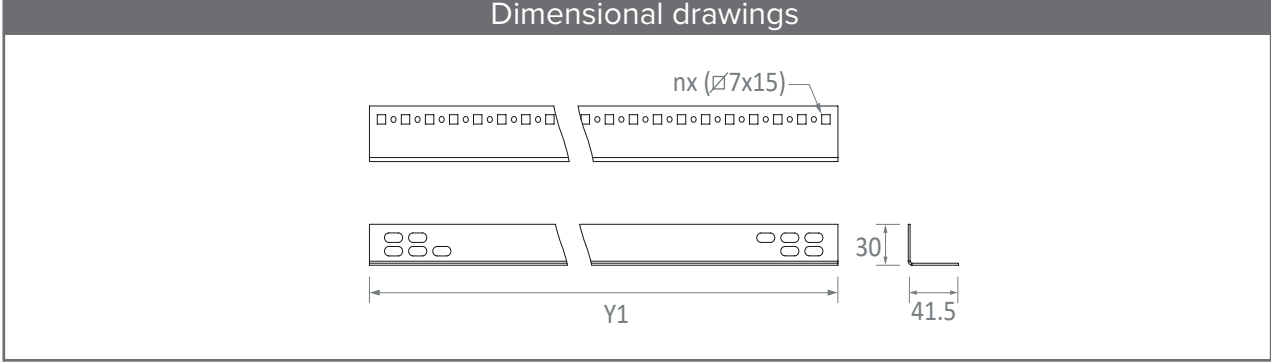
Type	Length			Connection	Weight [kg]
	X1 [mm]	Y1 [mm]	Z1 [mm]	Z2 [mm]	
ZBL SHA 30 30	30	55	58	38	0.1
ZBR SHA 30 30	30	55	58	38	0.1

Z profile



Type	Connection		Width (A) [mm]	Length (X1) [mm]	Weight [kg]
	X2 [mm]	n			
ZP SHA 40	295	16	400	312	0.1
ZP SHA 60	495	26	600	512	0.1
ZP SHA 80	695	36	800	712	0.1
ZP SHA 100	895	49	1000	912	0.2
ZP SHA 120	1095	66	1200	1112	0.2

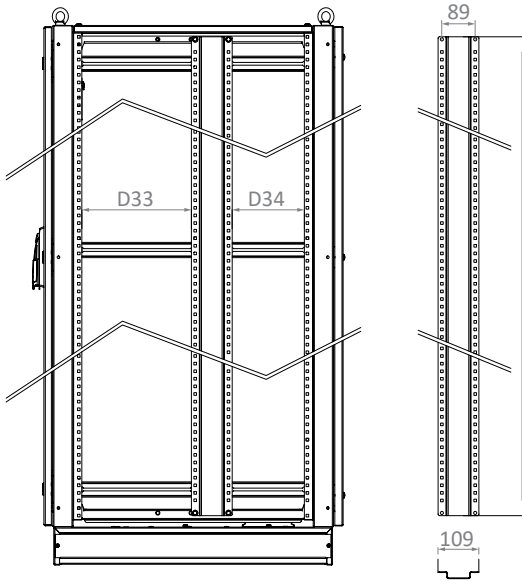
L profile



Dimensions				
Type	Connection	Length (Y1) [mm]	Length (X1) [mm]	Weight [kg]
	n			
LP SHA 180	82	1800	1640	1.3
LP SHA 200	92	2000	1840	1.5

Depth partition profile

Dimensional drawings

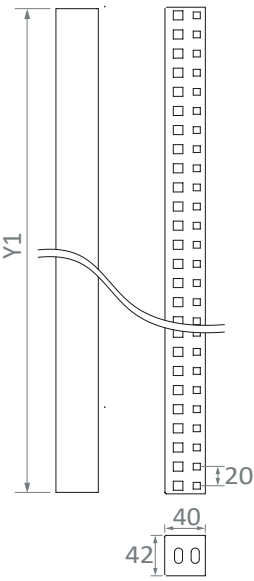


Dimensions

Type	C = 800mm for Useful Area		C = 1000mm for Useful Area		Height (B) [mm]	Length (Y1) [mm]	Weight [kg]
	D33 [mm]	D34 [mm]	D33 [mm]	D34 [mm]			
DPP SHA 180 N	193/293	293/193	293/393	393/293	1800	1740	3.6
DPP SHA 200 N	193/293	293/193	293/393	393/293	2000	1940	4.6

Partition profile

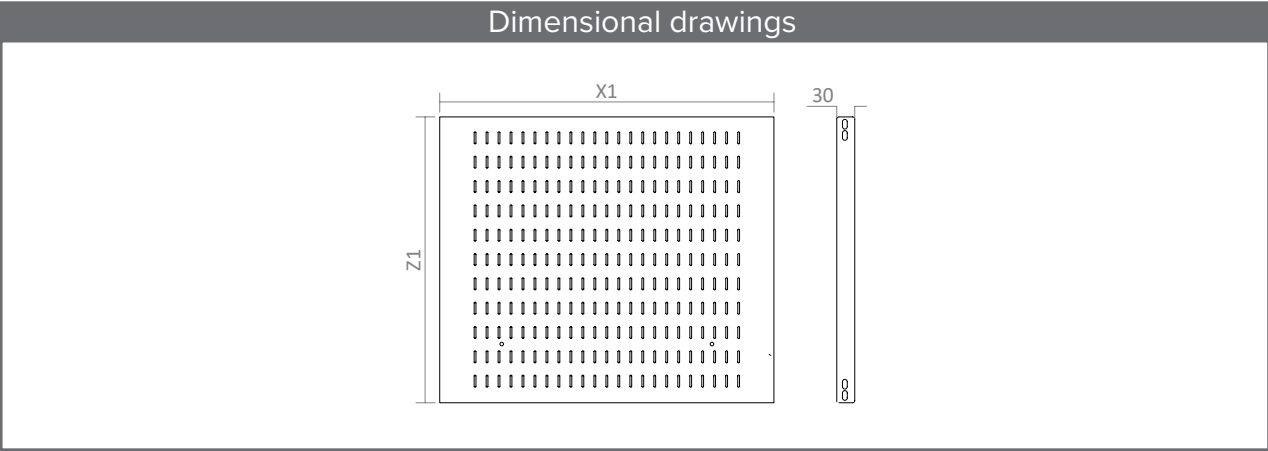
Dimensional drawings



Dimensions

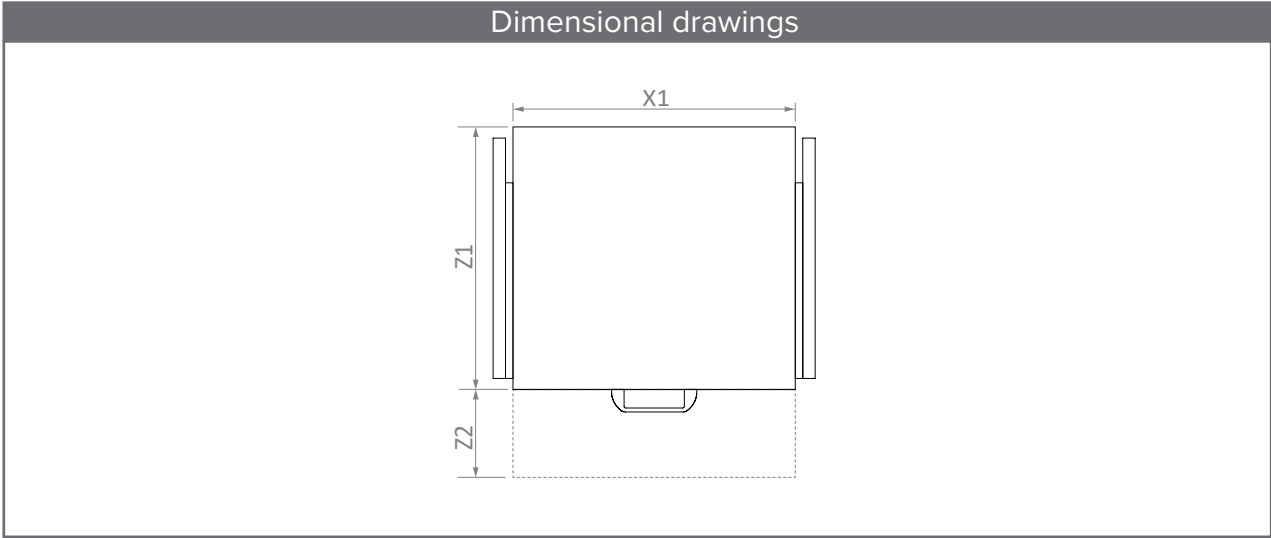
Type	Width (A) [mm]	Height (B) [mm]	Length (Y1) [mm]	Weight [kg]
PP SHA 180	1800	1800	1754	2.1
PP SHA 200	2000	2000	1954	2.3

Adjustable shelves



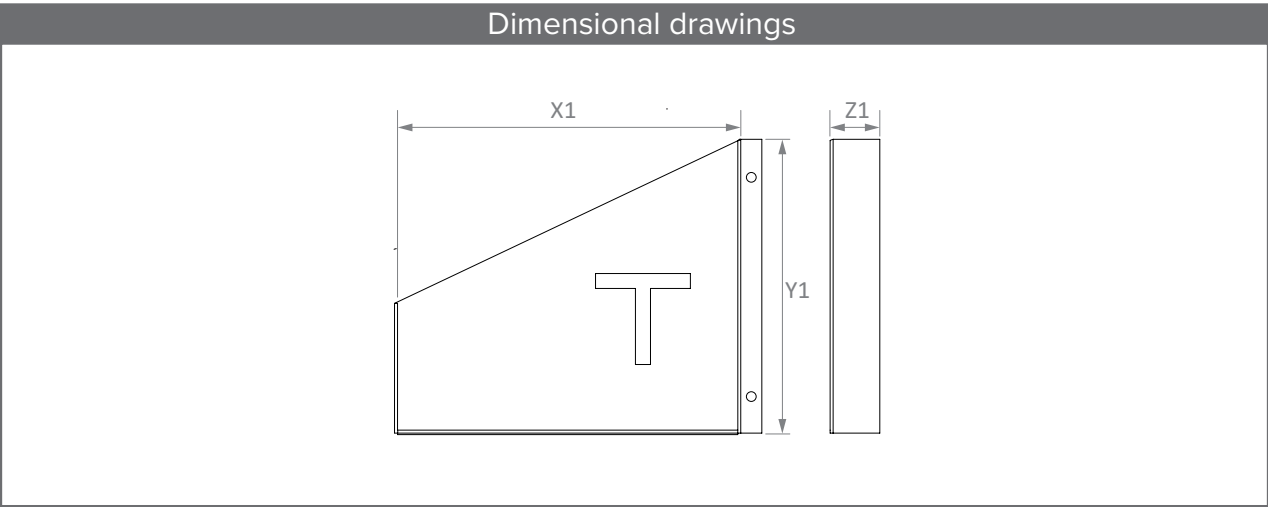
Type	Length		Width (A) [mm]	Depth (C) [mm]	Weight [kg]
	X1 [mm]	Z1 [mm]			
AS SHA 60 40	560	270	600	400	2.4
AS SHA 60 60	560	470	600	600	3.8
AS SHA 60 80	560	670	600	800	5.1
AS SHA 80 40	760	270	800	400	3.1
AS SHA 80 60	760	470	800	600	4.9
AS SHA 80 80	760	670	800	800	6.6

Pull out shelves



Type	Extension	Width (A) [mm]	Depth (C) [mm]	Width (X1) [mm]	Length (Z1) [mm]	Loading capacity [kg]	Weight [kg]
	Z2 [mm]						
POL SHA 60 40	200	600	400	490	235	30	2
POL SHA 60 60	400	600	600	490	435	30	3.2
POL SHA 60 80	600	600	800	490	35	30	4.5
POL SHA 80 40	200	800	400	690	235	30	2.6
POL SHA 80 60	400	800	600	690	435	30	4.4
POL SHA 80 80	600	800	800	690	635	30	6.2

Plan pockets



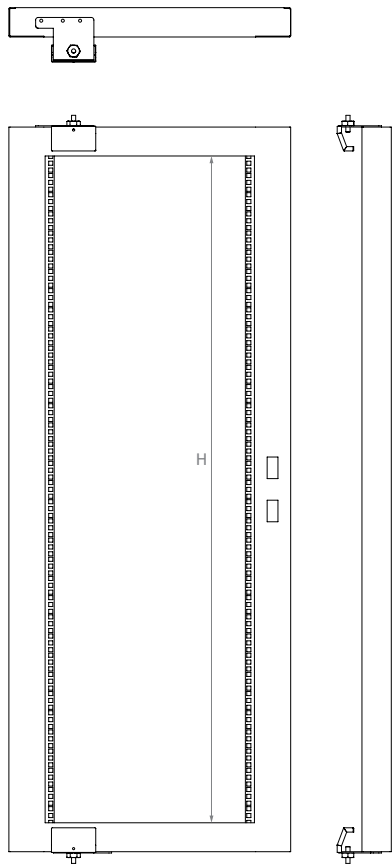
Dimensions					
Type	Length			Width (A) [mm]	Weight [kg]
	X1	Y1 [mm]	Z1 [mm]		
PP SHA A4	A4	200	30	All Dimensions	0.4
PP SHA A3	A3	240	60	600/1200	1.9
PP SHA A3A	A3	240	60	800	2.6

Laptop tray

Dimensions		
Type	Width (A) [mm]	Weight [kg]
LT SHA 60	600/1200	2.3
LT SHA 80	800	3.2
LT SHA 100	1000	2.1

Swing frame

Dimensional drawings



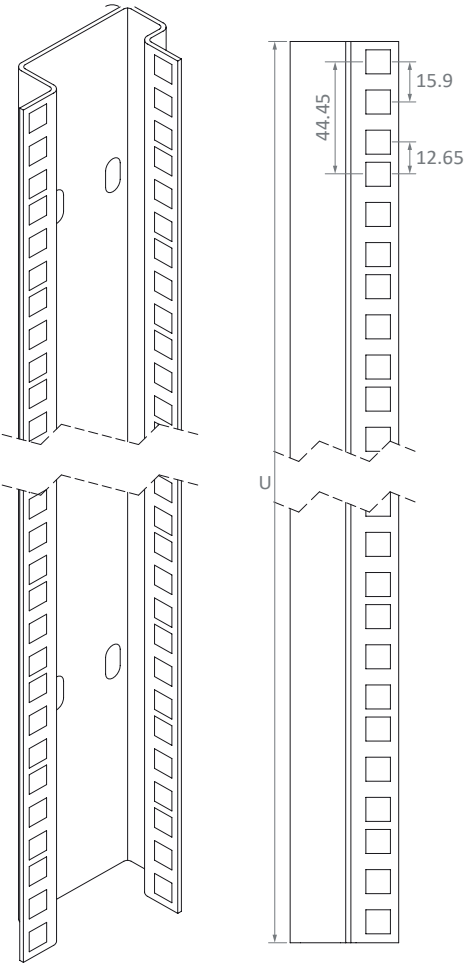
Dimensions

Type	Swing Frame (H)	Width (A [mm])	Height (B) [mm]
SF SHA 60 36U	36U	600	1800
SF SHA 60 40U	40U	600	2000
SF SHA 80 36U	36U	800	1800
SF SHA 80 40U	40U	800	2000

*1U = 44.45 mm

19" Profiles

Dimensional drawings



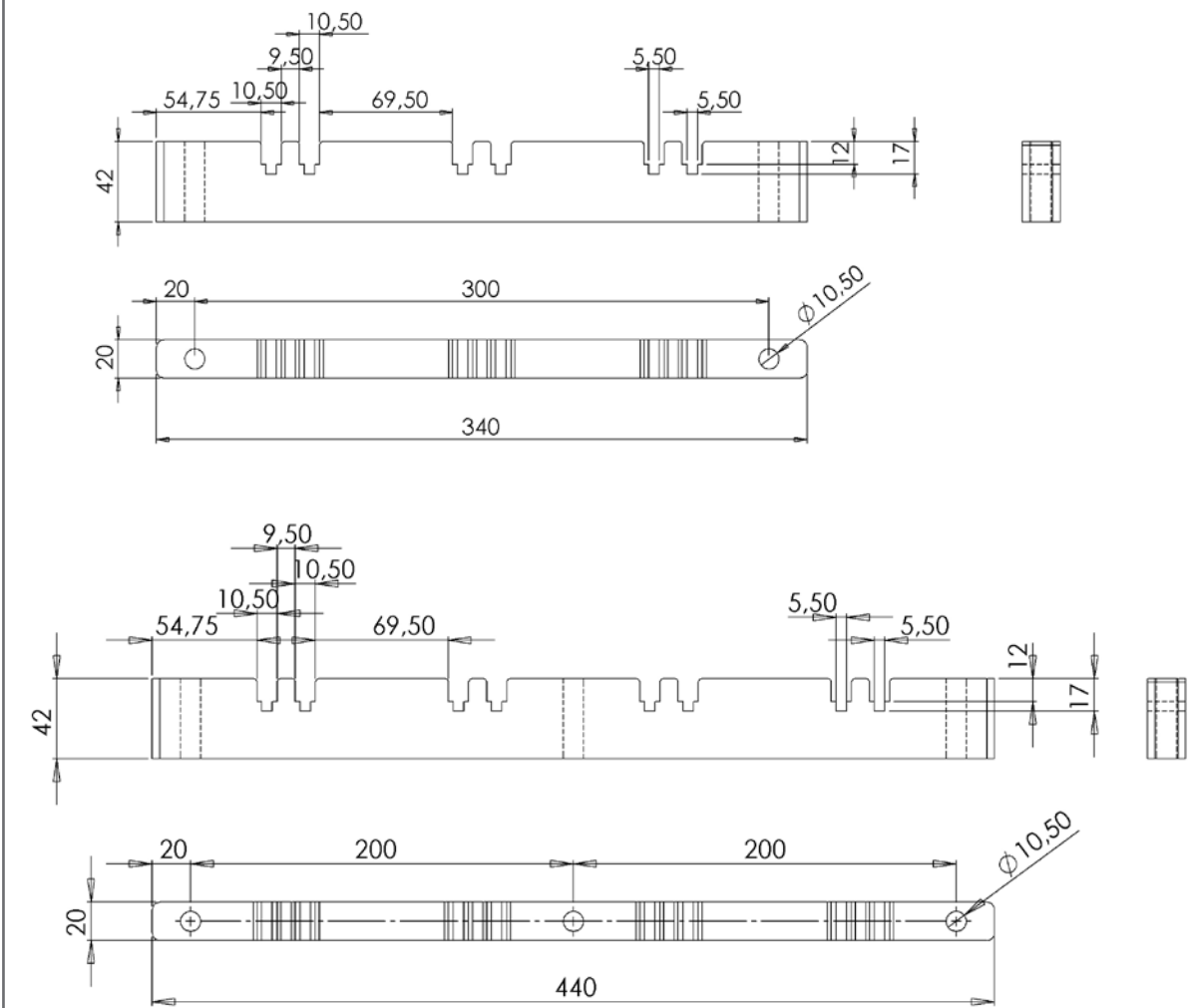
Dimensions

Type	Height (B) [mm]	Length
CP SHA 180 39U	1800	39U
CP SHA 200 43U	2000	44U

*1U = 44.45 mm

Busbar support

Dimensional drawings



Monobloc stand-alone enclosures

General parameters

Protection degree IP65 (EN 60529)
Fully welded construction = monobloc
Foamed-in door and rear panel PU sealing gasket
Swing-handle polymide lock (3 point locking, 333 key)
Accessories for SHA and MSA are compatible

Electrical parameters

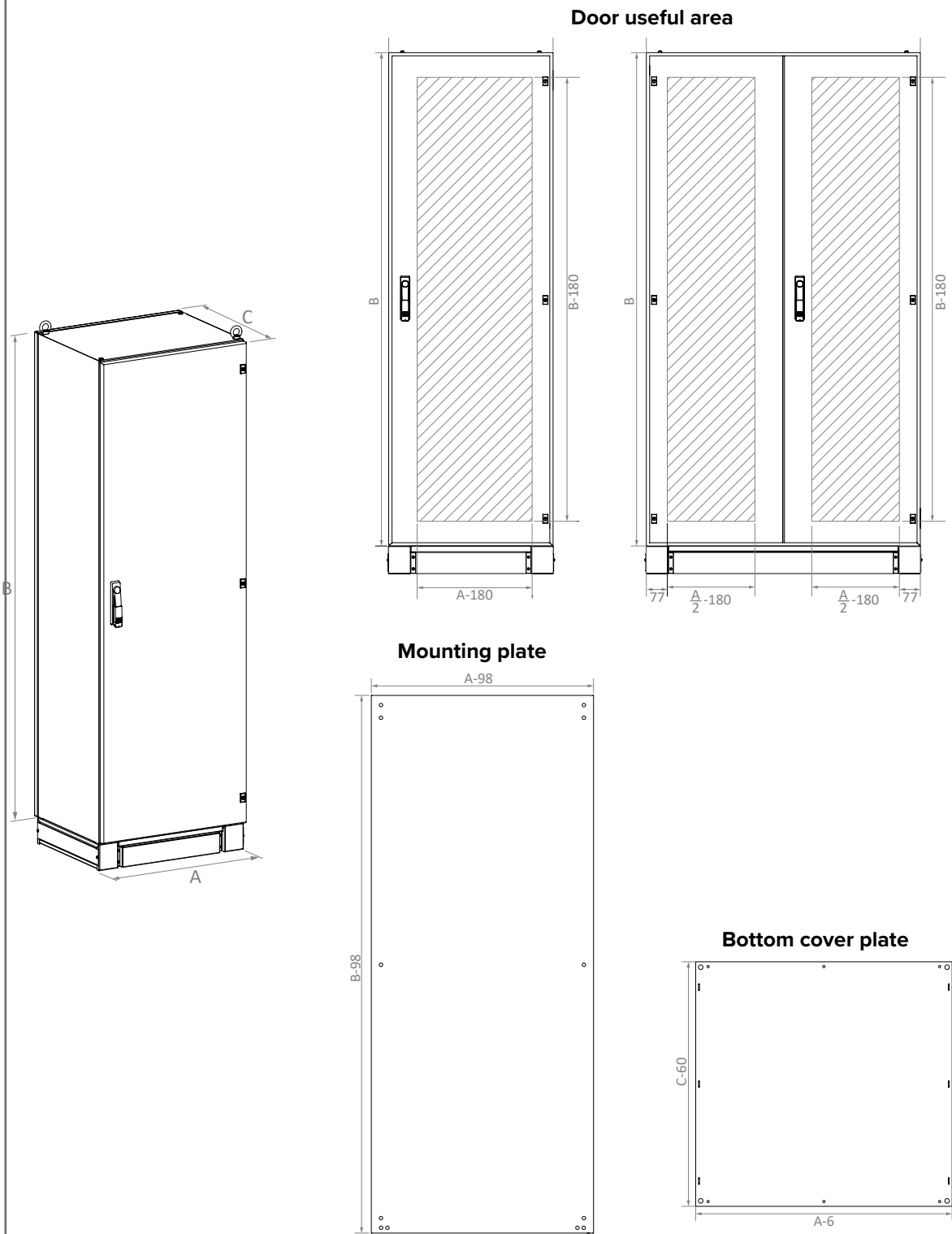
Tested according to	IEC/EN 62208
Rated operational voltage U_e	1 000 V AC
Rated frequency f	up to 1 000 Hz
Rated impulse voltage U_{imp}	8 kV
Insulation voltage U_i	1000 V AC
Maximum short-circuit current I_{dc}	35 kA
Degree of protection	IP65 (single door), IP55 (double door)
Mechanical impact protection	IK10 (solid door)
Insulation class	I

Mechanical parameters

Material of enclosure	sheet steel
Thickness of body / door	1.5 / 2.0 mm
Maximum door opening angle	135°
Colour	RAL7035w
Material of mounting plate	galvanized steel
Thickness of mounting plate	2 mm
Ambient temperature	-40 — +100 °C

Monobloc stand-alone enclosures

Dimensional drawings



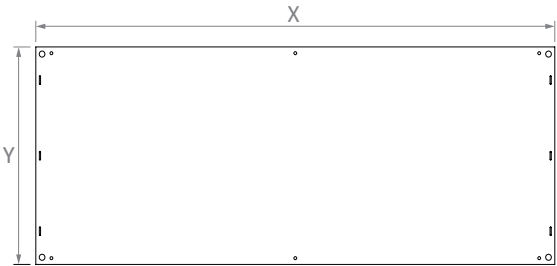
Monobloc stand-alone enclosures

Dimensions

Type	Door	Hinge	Height (B) [mm]	Width (A) [mm]	Depth (C) [mm]
MSA 180 60 40	1	3	1800	600	400
MSA 180 60 50	1	3	1800	600	500
MSA 180 60 60	1	3	1800	600	600
MSA 180 80 40	1	3	1800	800	400
MSA 180 80 50	1	3	1800	800	500
MSA 180 80 60	1	3	1800	800	600
MSA 180 100 40	2	3+3	1800	1000	400
MSA 180 100 50	2	3+3	1800	1000	500
MSA 180 100 60	2	3+3	1800	1000	600
MSA 180 120 40	2	3+3	1800	1200	400
MSA 180 120 50	2	3+3	1800	1200	500
MSA 180 120 60	2	3+3	1800	1200	600
MSA 200 60 40	1	3	2000	600	400
MSA 200 60 50	1	3	2000	600	500
MSA 200 60 60	1	3	2000	600	600
MSA 200 80 40	1	3	2000	800	400
MSA 200 80 50	1	3	2000	800	500
MSA 200 80 60	1	3	2000	800	600
MSA 200 100 40	2	3+3	2000	1000	400
MSA 200 100 50	2	3+3	2000	1000	500
MSA 200 100 60	2	3+3	2000	1000	600
MSA 200 120 40	2	3+3	2000	1200	400
MSA 200 120 50	2	3+3	2000	1200	500
MSA 200 120 60	2	3+3	2000	1200	600

Bottom cover plate

Dimensional drawings

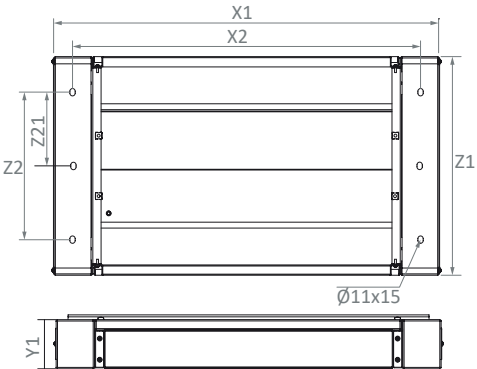


Dimensions

Type	Width (A) [mm]	Depth (C) [mm]	Width (X) [mm]	Length (Y) [mm]	Weight [kg]
PL SHA 60 40	600	400	595	340	3.3
PL SHA 60 60	600	600	595	540	5.2
PL SHA 80 40	800	400	795	340	4.4
PL SHA 80 60	800	600	795	540	6.9
PL SHA 100 40	1000	400	995	340	5.5
PL SHA 100 60	1000	600	995	540	8.6
PL SHA 120 40	1200	400	1195	340	6.6
PL SHA 120 60	1200	600	1195	540	10.4

Plinth

Dimensional drawings

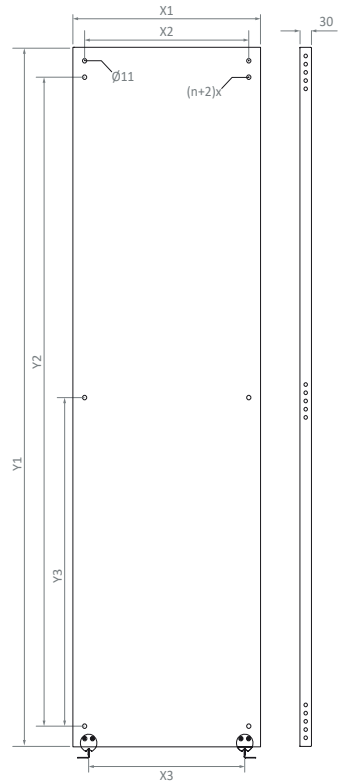


Dimensions

Type	Connection			Width (A) [mm]	Height (Y1) [mm]	Depth (C) [mm]	Width (X1) [mm]	Length (Z1) [mm]	Weight [kg]
	X2 [mm]	Z2 [mm]	Z21 [mm]						
PL SHA 10 60 40	525	200	100	600	100	400	600	345	8.1
PL SHA 10 60 50	525	300	150	600	100	500	600	445	9.4
PL SHA 10 60 60	525	400	200	600	100	600	600	545	10.8
PL SHA 10 80 40	725	200	100	800	100	400	800	345	10.5
PL SHA 10 80 50	725	300	150	800	100	500	800	445	11.8
PL SHA 10 80 60	725	400	200	800	100	600	800	545	13.1
PL SHA 10 100 40	925	200	100	1000	100	400	1000	345	12.9
PL SHA 10 100 50	925	300	150	1000	100	500	1000	445	14.2
PL SHA 10 100 60	925	400	200	1000	100	600	1000	545	15.5
PL SHA 10 120 40	1125	200	100	1200	100	400	1200	345	15.3
PL SHA 10 120 50	1125	300	150	1200	100	500	1200	445	16.6
PL SHA 10 120 60	1125	400	200	1200	100	600	1200	545	17.9
PL SHA 20 60 40	525	200	100	600	200	400	600	345	9.8
PL SHA 20 60 60	525	400	200	600	200	600	600	545	12.5
PL SHA 20 80 40	725	200	100	800	200	400	800	345	12.2
PL SHA 20 80 60	725	400	200	800	200	600	800	545	14.8
PL SHA 20 100 40	925	200	100	1000	200	400	1000	345	14.6
PL SHA 20 100 60	925	400	200	1000	200	600	1000	545	17.2
PL SHA 20 120 40	1125	200	100	1200	200	400	1200	345	17
PL SHA 20 120 60	1125	400	200	1200	200	600	1200	545	19.6

Mounting plates

Dimensional drawings

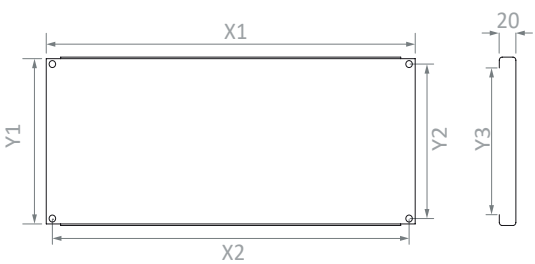


Dimensions

Type	Connection					Width (A) [mm]	Height (B) [mm]	Width (X1) [mm]	Length (Y1) [mm]	Weight [kg]
	X2 [mm]	Y2 [mm]	X3 [mm]	Y3 [mm]	n					
MBP SHA 180 60	241	1780	220	900	6	600	1800	502	1702	16
MBP SHA 180 80	441	1580	420	800	6	800	1800	702	1702	21.6
MBP SHA 180 100	441	1780	420	900	6	1000	1800	902	1702	27.2
MBP SHA 180 120	641	1580	620	800	6	1200	1800	1102	1702	32.8
MBP SHA 200 60	841	1580	820	800	6	600	2000	502	1902	17.8
MBP SHA 200 80	841	1780	820	900	6	800	2000	702	1902	24.2
MBP SHA 200 100	1041	1580	1020	800	6	1000	2000	902	1902	30.3
MBP SHA 200 120	1041	1780	1020	900	6	1200	2000	1102	1902	36.6

Partial mounting plate

Dimensional drawings

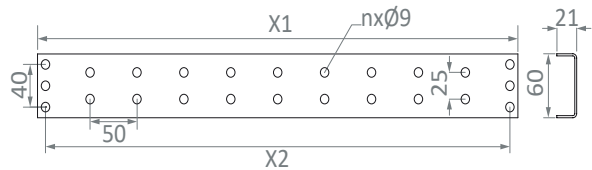


Dimensions

Type	Connection		Width (A) [mm]	Width (X1) [mm]	Length (Y1) [mm]	Length (Y3) [mm]	Weight [kg]
	X2 [mm]	Y2 [mm]					
PBP SHA 60 16	495	140	600	512	160	130	1.7
PBP SHA 60 22	495	200	600	512	220	190	2.2
PBP SHA 60 28	495	260	600	512	280	250	2.7
PBP SHA 60 36	495	340	600	512	360	330	3.3
PBP SHA 80 16	695	140	800	712	160	130	2.4
PBP SHA 80 22	695	200	800	712	220	190	3.1
PBP SHA 80 28	695	260	800	712	280	250	3.8
PBP SHA 80 36	695	340	800	712	360	330	4.7
PBP SHA 100 16	895	140	1000	912	160	130	3.1
PBP SHA 100 22	895	200	1000	912	220	190	4
PBP SHA 100 28	895	260	1000	912	280	250	4.8
PBP SHA 100 36	895	340	1000	912	360	330	6
PBP SHA 120 16	1095	140	1200	1112	160	130	3.8
PBP SHA 120 22	1095	200	1200	1112	220	190	4.8
PBP SHA 120 28	1095	260	1200	1112	280	250	5.9
PBP SHA 120 36	1095	340	1200	1112	360	330	7.3
PBP SHA 60 10	495	80	600	512	100	70	1
PBP SHA 60 20	495	180	600	512	200	170	2
PBP SHA 60 30	495	280	600	512	300	270	3
PBP SHA 60 40	495	380	600	512	400	370	4
PBP SHA 80 10	695	80	800	712	100	70	2
PBP SHA 80 20	695	180	800	712	200	170	3
PBP SHA 80 30	695	280	800	712	300	270	4
PBP SHA 80 40	695	380	800	712	400	370	5
PBP SHA 100 10	895	80	1000	912	100	70	3
PBP SHA 100 20	895	180	1000	912	200	170	3.5
PBP SHA 100 30	895	280	1000	912	300	270	4
PBP SHA 100 40	895	380	1000	912	400	370	5
PBP SHA 120 10	1095	80	1200	1112	100	70	3.5
PBP SHA 120 20	1095	180	1200	1112	200	170	4.3
PBP SHA 120 30	1095	280	1200	1112	300	270	5
PBP SHA 120 40	1095	380	1200	1112	400	370	6

Partial mounting plate

Dimensional drawings

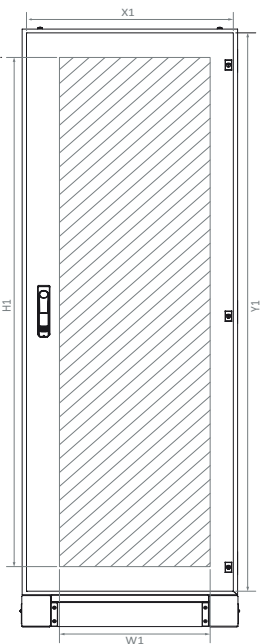


Dimensions

Type	Connection	Width (A) [mm]	Length (X1) [mm]	Weight [kg]
	X2 [mm]			
PBP SHA 60 06	495	600	512	0.7
PBP SHA 80 06	695	800	712	1
PBP SHA 100 06	895	1000	912	1.3
PBP SHA 120 06	1095	1200	1112	1.5

Solid door

Dimensional drawings

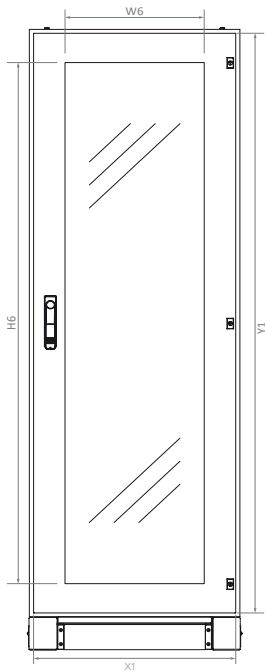


Dimensions

Type	Door	Hinge	Lock Type	Useful Area				Width (A) [mm]	Height (B) [mm]	Width (X1) [mm]	Length (Y1) [mm]	Weight [kg]
				W1 [mm]	W11 [mm]	W12 [mm]	H1 [mm]					
SSD SHA 180 60	1	3	I	420	-	-	1620	600	1800	576	1776	15.2
SSD SHA 200 60	1	3	I	420	-	-	1820	600	2000	576	1976	16.5
SSD SHA 180 80	1	3	I	620	-	-	1620	800	1800	776	1776	28.5
SSD SHA 200 80	1	3	I	620	-	-	1820	800	2000	776	1976	31.4
SSD SHA 180 100	2	3+3	I	-	320	320	1620	1000	1800	976	1776	37
SSD SHA 200 100	2	3+3	I	-	320	320	1820	1000	2000	976	1976	40
SSD SHA 180 120	2	3+3	I	-	420	420	1620	1200	1800	1176	1776	41.6
SSD SHA 200 120	2	3+3	I	-	420	420	1820	1200	2000	1176	1976	46.2

Glazed door

Dimensional drawings

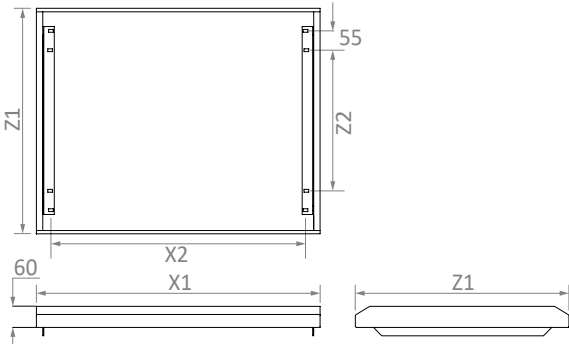


Dimensions

Type	Door	Hinge	Lock Type	Transparent Area		Width (A) [mm]	Height (B) [mm]	Width (X1) [mm]	Length (Y1) [mm]	Weight [kg]
				W1 [mm]	H1 [mm]					
GSD SHA 180 60	1	3	I	397	1597	600	1800	576	1776	15.2
GSD SHA 200 60	1	3	I	397	1797	600	2000	576	1976	16.5
GSD SGA 180 80	1	3	I	597	1597	800	1800	776	1776	28.5
GSD SGA 200 80	1	3	I	597	1797	800	2000	776	1976	31.4

Rain canopy

Dimensional drawings

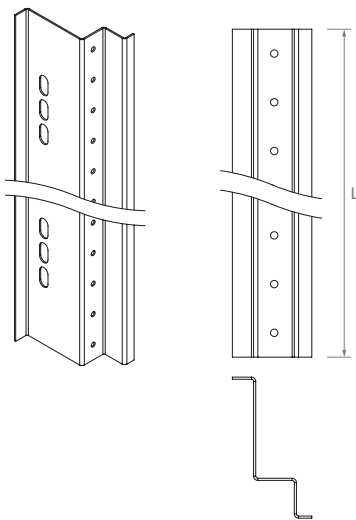


Dimensions

Type	Connection		Width (A) [mm]	Depth (C) [mm]	Width (X1) [mm]	Length (Z1) [mm]	Weight [kg]
	X2 [mm]	Z2 [mm]					
RC SHA 60 40	563	199	600	400	650	440	4.4
RC SHA 60 60	563	399	600	600	650	640	6.1
RC SHA 80 40	763	199	800	400	850	440	5.8
RC SHA 80 60	763	399	800	600	850	640	7.5
RC SHA 100 40	963	199	1000	400	1050	440	7.2
RC SHA 100 60	963	399	1000	600	1050	640	8.9
RC SHA 120 40	1163	199	1200	400	1250	440	8.5
RC SHA 120 60	1163	399	1200	600	1250	640	10.3

Screw type cover plate profiles

Dimensional drawings

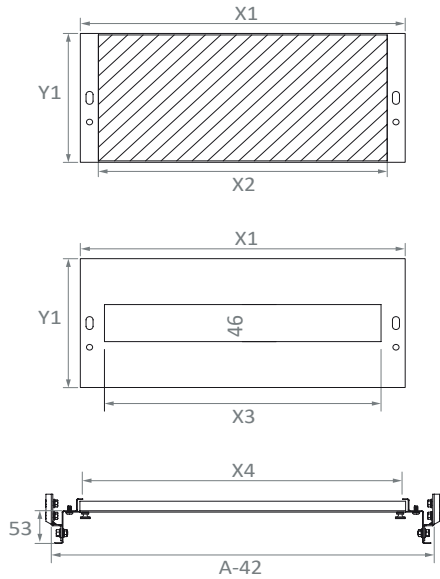


Dimensions

Type	Height (B) [mm]	Length (L) [mm]	Weight [kg]
SC SHA 180 N	1800	1750	2.2
SC SHA 200 N	2000	1950	2.5

Screw type cover plates

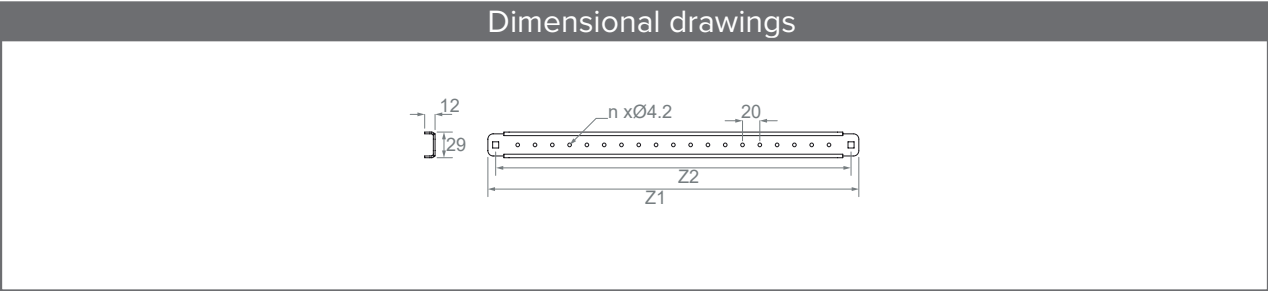
Dimensional drawings



Dimensions

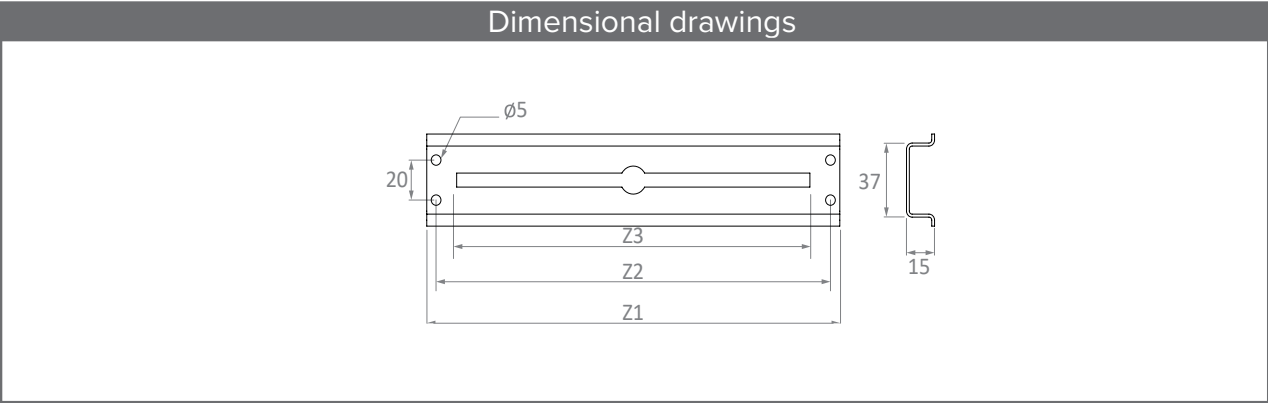
Type	Useful Area			Width (A) [mm]	Length		Weight [kg]
	X2 [mm]	X3 [modules]	X4 [mm]		X1 [mm]	Y1 [mm]	
CP SHA 15 60 N	-	22	440	600	516	150	0.5
CP SHA 15 80 N	-	33	640	800	716	150	0.7
CPP SHA 02 60 N	425	-	440	600	516	25	0.5
CPP SHA 10 60 N	425	-	440	600	516	100	0.7
CPP SHA 15 60 N	425	-	440	600	516	150	0.8
CPP SHA 20 60 N	425	-	440	600	516	200	0.9
CPP SHA 30 60 N	425	-	440	600	516	300	1.3
CPP SHA 40 60 N	425	-	440	600	516	400	1.7
CPP SHA 50 60 N	425	-	440	600	516	500	2.2
CPP SHA 02 80 N	625	-	640	800	516	25	0.7
CPP SHA 10 80 N	625	-	640	800	716	100	0.7
CPP SHA 15 80 N	625	-	640	800	716	150	0.8
CPP SHA 20 80 N	625	-	640	800	716	200	0.9
CPP SHA 30 80 N	625	-	640	800	716	300	1.3
CPP SHA 40 80 N	625	-	640	800	716	400	1.7
CPP SHA 50 80 N	625	-	640	800	716	500	2.2
CPP SHA 02 100 N	825	-	840	1000	916	25	0.9
CPP SHA 20 100 N	825	-	840	1000	916	200	1.3
CPP SHA 30 100 N	825	-	840	1000	916	300	1.7
CPP SHA 40 100 N	825	-	840	1000	916	400	2.2
CPP SHA 50 100 N	825	-	840	1000	916	500	2.5
CPP SHA 02 120 N	1025	-	1040	1200	1116	25	1.2
CPP SHA 20 120 N	1025	-	1040	1200	1116	200	1.7
CPP SHA 30 120 N	1025	-	1040	1200	1116	300	2.2
CPP SHA 40 120 N	1025	-	1040	1200	1116	400	2.5
CPP SHA 50 120 N	1025	-	1040	1200	1116	500	2.9

Infill depth profiles



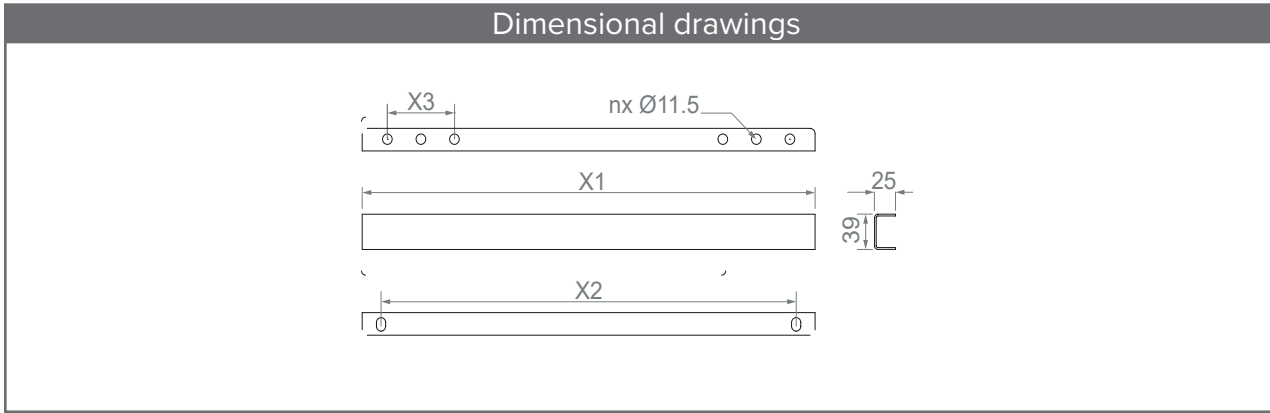
Type	Connection		Depth (C) [mm]	Length (Z1) [mm]	Weight [kg]
	Z2 [mm]	n			
IP SHA 40	211	9	400	228	0.3
IP SHA 60	411	19	600	428	0.6

Side rails



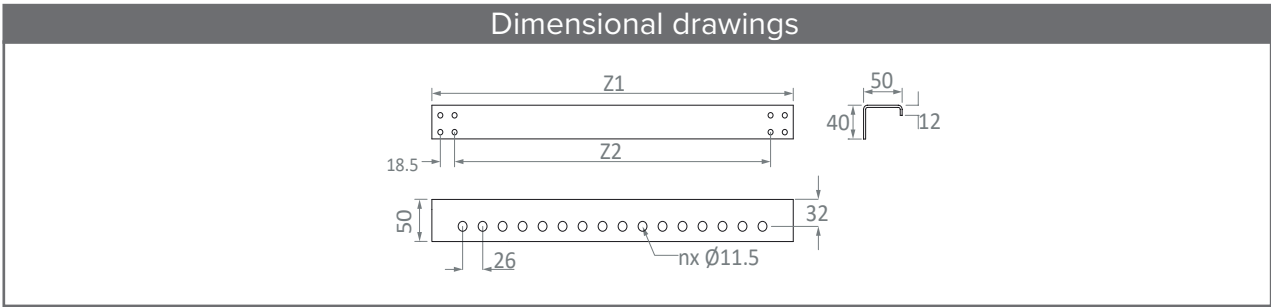
Type	Connection		Depth (C) [mm]	Length (Z1) [mm]	Weight [kg]
	Z2 [mm]	Z3 [mm]			
SR SHA 40	211	192	400	224	0.2
SR SHA 60	411	392	600	424	0.4

U profile



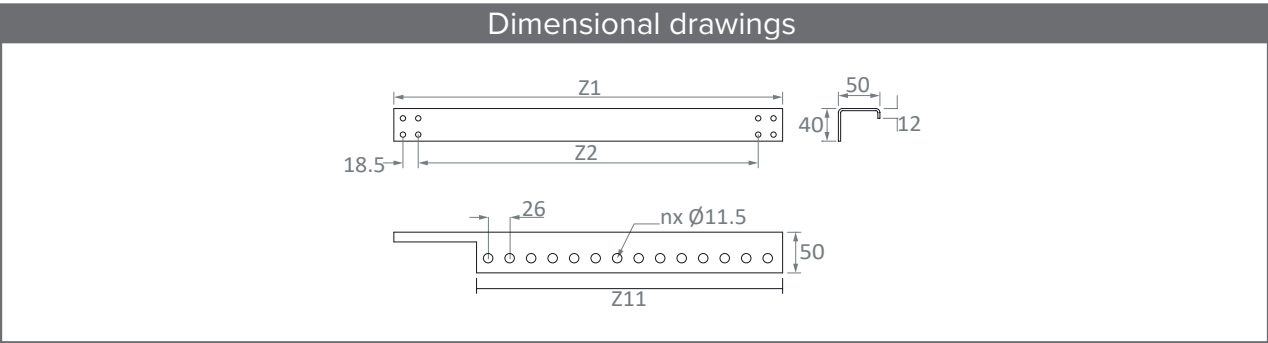
Dimensions						
Type	Connection			Width (A) [mm]	Length (Z1) [mm]	Weight [kg]
	X2 [mm]	X3 [mm]	n			
UP SHA 60	495	80	6	600	540	0.9
UP SHA 80	695	80	6	800	740	1.2
UP SHA 1000	895	80	6	1000	940	1.5
UP SHA 1200	1095	80	6	1200	1140	1.8

Busbar & depth profiles



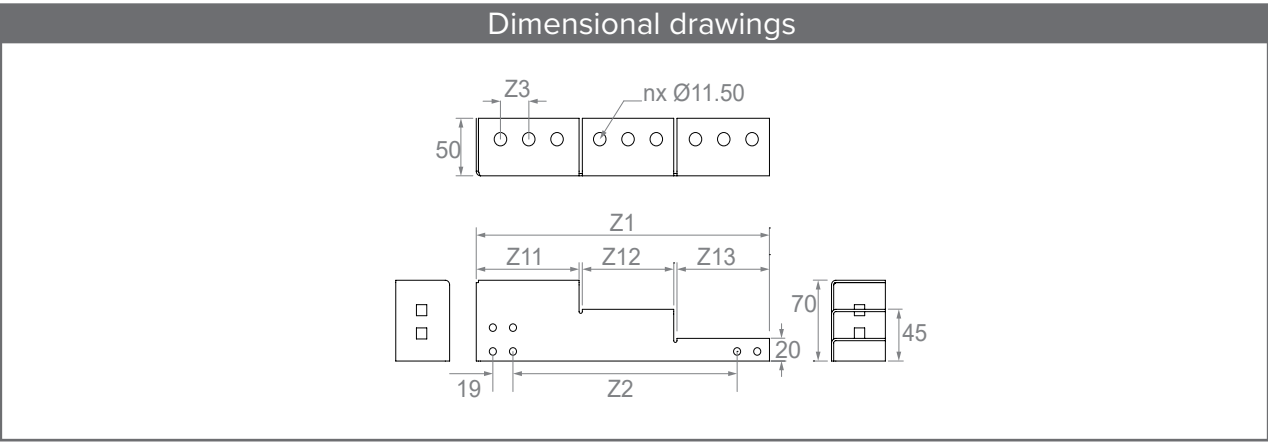
Dimensions					
Type	Connection		Depth (C) [mm]	Length (Z1) [mm]	Weight [kg]
	Z2 [mm]	n			
BB SHA 40	211	8	400	270	0.4
BB SHA 60	411	16	600	470	0.8

Notched busbar & depth profile



Type	Connection			Depth (C) [mm]	Length (Z1) [mm]	Weight [kg]
	Z11 [mm]	Z2 [mm]	n			
NBL SHA 40	170	211	6	400	270	0.4
NBR SHA 40	170	211	6	400	270	0.4
NBL SHA 60	370	411	14	600	470	0.7
NBR SHA 60	370	411	14	600	470	0.7

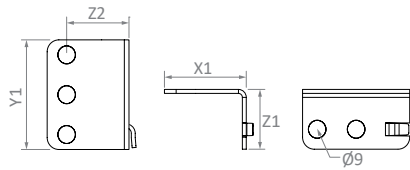
Ladder busbar profiles



Type	Connection						Depth (C) [mm]	Length (Z1) [mm]	Weight [kg]
	Z11 [mm]	Z12 [mm]	Z13 [mm]	Z2 [mm]	Z3 [mm]	n			
LBL SHA 40	85	85	92	211	26	3	400	270	0.7
LBR SHA 40	85	85	92	211	26	3	400	270	0.7
LBL SHA 60	155	155	152	411	26	4	600	470	0.9
LBR SHA 60	155	155	152	411	26	4	600	470	0.9

L brackets

Dimensional drawings

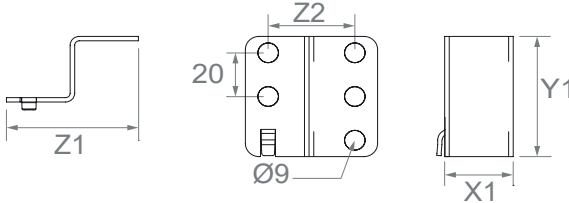


Dimensions

Type	Length			Connection	Weight [kg]
	X1 [mm]	Y1 [mm]	Z1 [mm]	Z2 [mm]	
LBL SHA 42 30	42	55	50	32	0.1
LBR SHA 42 30	42	55	50	32	0.1
LBL SHA 42 50	42	55	50	32	0.1
LBR SHA 42 50	42	55	50	32	0.1
LBL SHA 42 90	42	55	50	32	0.1
LBR SHA 42 90	42	55	50	32	0.1

Z Brackets

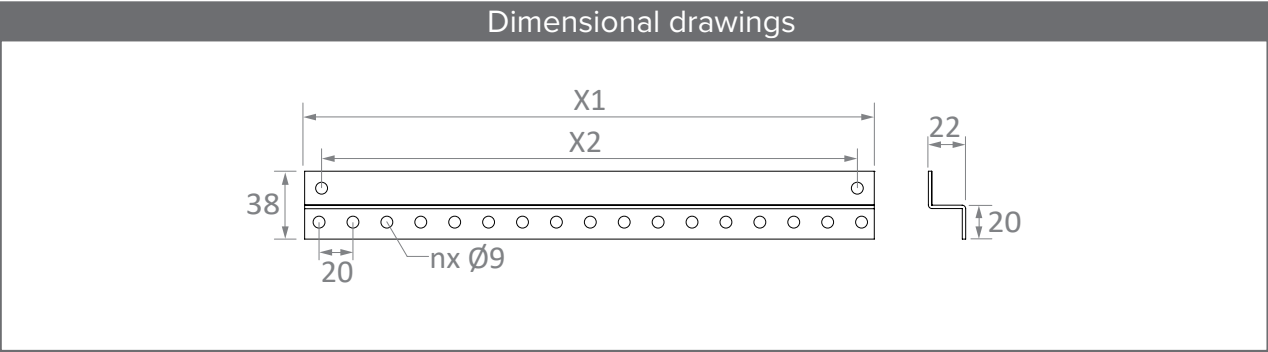
Dimensional drawings



Dimensions

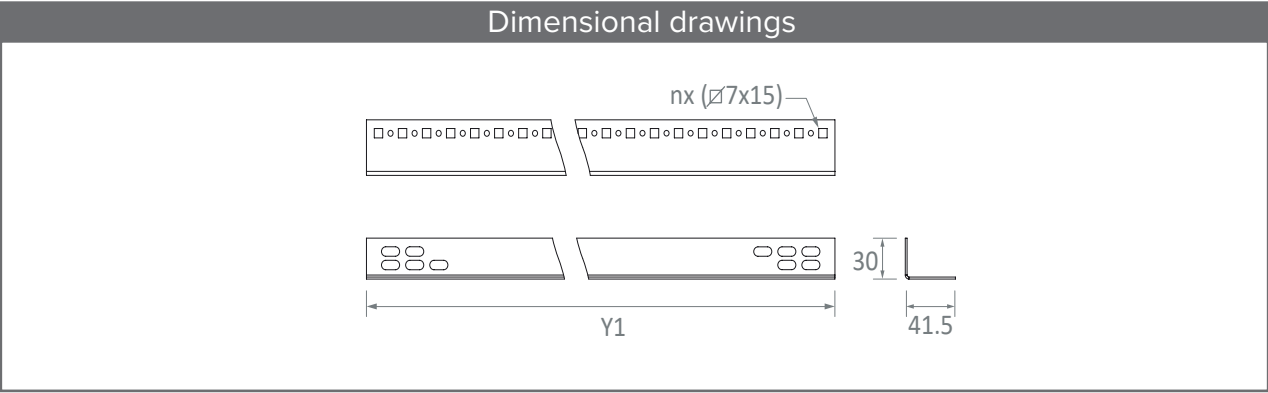
Type	Length			Connection	Weight [kg]
	X1 [mm]	Y1 [mm]	Z1 [mm]	Z2 [mm]	
ZBL SHA 30 30	30	55	58	38	0.1
ZBR SHA 30 30	30	55	58	38	0.1

Z profile



Type	Connection		Width (A) [mm]	Length (X1) [mm]	Weight [kg]
	X2 [mm]	n			
ZP SHA 60	495	26	600	512	0.1
ZP SHA 80	695	36	800	712	0.1
ZP SHA 100	895	49	1000	912	0.2
ZP SHA 120	1095	66	1200	1112	0.2

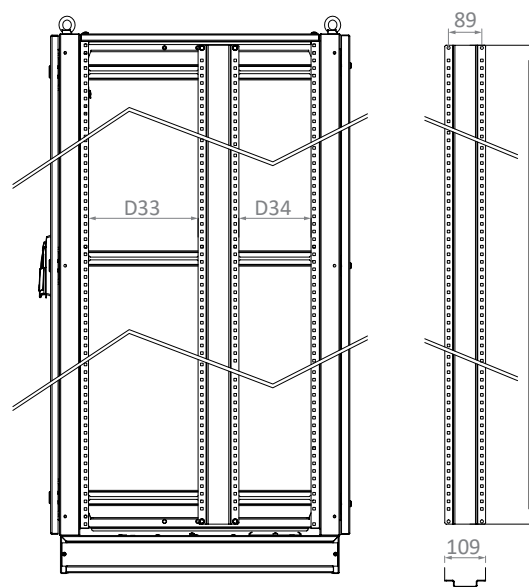
L profiles



Dimensions				
Type	Connection	Length (Y1) [mm]	Length (X1) [mm]	Weight [kg]
	n			
LP SHA 180	82	1800	1640	1.3
LP SHA 200	92	2000	1840	1.5

Depth partition profile

Dimensional drawings

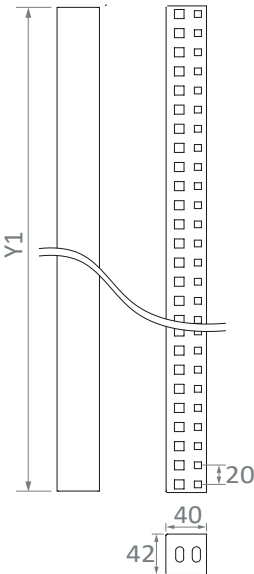


Dimensions

Type	C = 800mm for Useful Area		C = 1000mm for Useful Area		Height (B) [mm]	Length (Y1) [mm]	Weight [kg]
	D33 [mm]	D34 [mm]	D33 [mm]	D34 [mm]			
DPP SHA 180 N	193/293	293/193	293/393	393/293	1800	1740	3.6
DPP SHA 200 N	193/293	293/193	293/393	393/293	2000	1940	4.6

Partition profile

Dimensional drawings

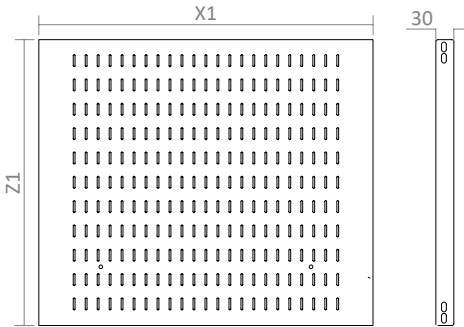


Dimensions

Type	Width (A) [mm]	Height (B) [mm]	Length (Y1) [mm]	Weight [kg]
PP SHA 180	1800	1800	1754	2.1
PP SHA 200	2000	2000	1954	2.3

Adjustable shelves

Dimensional drawings

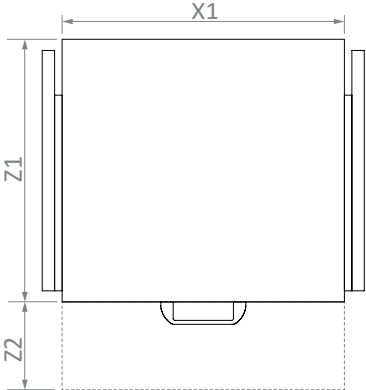


Dimensions

Type	Length		Width (A) [mm]	Depth (C) [mm]	Weight [kg]
	X1 [mm]	Z1 [mm]			
AS SHA 60 40	560	270	600	400	2.4
AS SHA 60 60	560	470	600	600	3.8
AS SHA 80 40	760	270	800	400	3.1
AS SHA 80 60	760	470	800	600	4.9

Pull out shelves

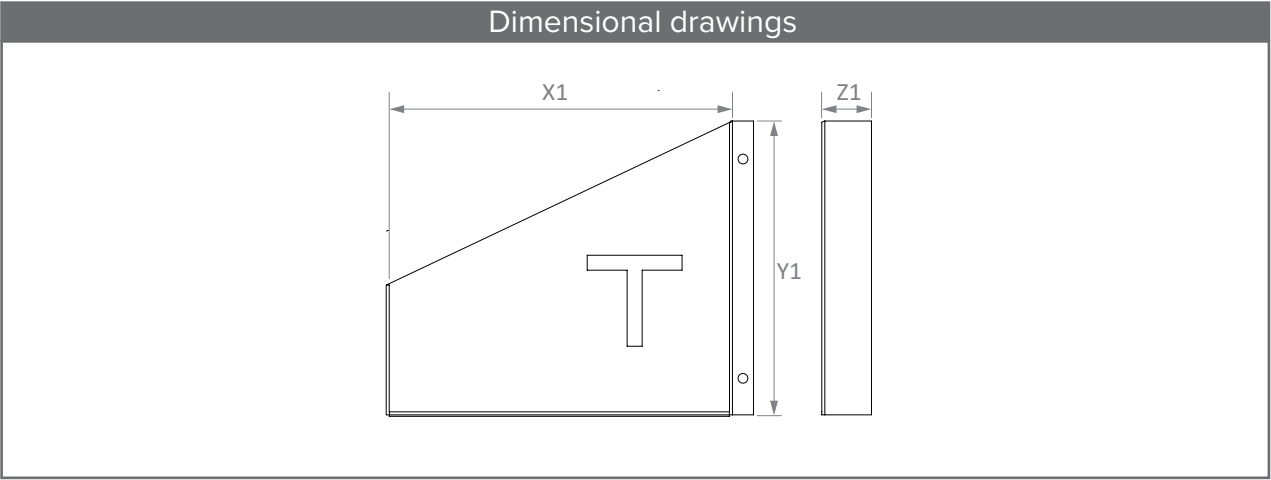
Dimensional drawings



Dimensions

Type	Extension	Width (A) [mm]	Depth (C) [mm]	Width (X1) [mm]	Length (Z1) [mm]	Loading capacity [kg]	Weight [kg]
	Z2 [mm]						
POL SHA 60 40	200	600	400	490	235	30	2
POL SHA 60 60	400	600	600	490	435	30	3.2
POL SHA 80 40	200	800	400	690	235	30	2.6
POL SHA 80 60	400	800	600	690	435	30	4.4

Plan pockets



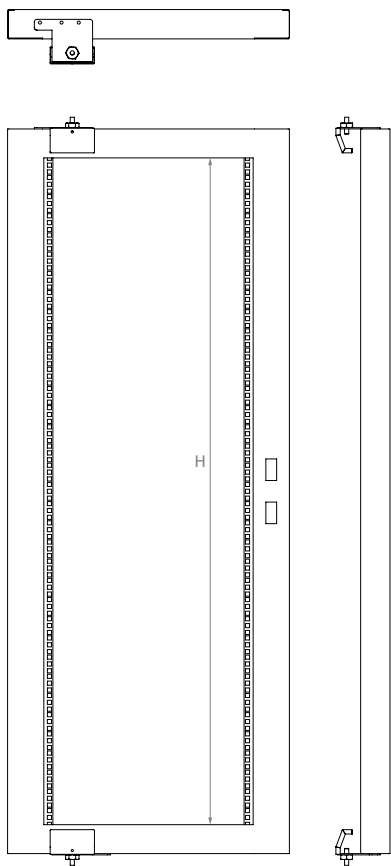
Dimensions					
Type	Length			Width (A) [mm]	Weight [kg]
	X1	Y1 [mm]	Z1 [mm]		
PP SHA A4	A4	200	30	All Dimensions	0.4
PP SHA A3	A3	240	60	600/1200	1.9
PP SHA A3A	A3	240	60	800	2.6

Laptop tray

Dimensions		
Type	Width (A) [mm]	Weight [kg]
LT SHA 60	600/1200	2.3
LT SHA 80	800	3.2
LT SHA 100	1000	2.1

Swing frame

Dimensional drawings



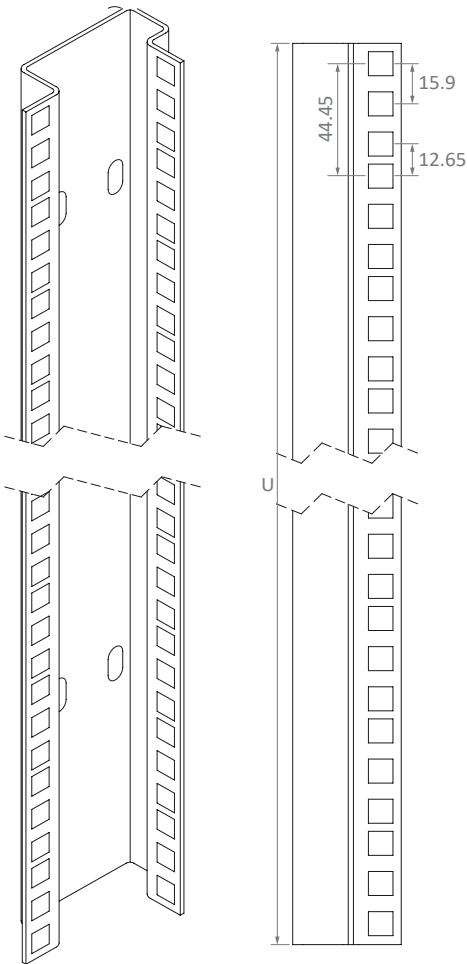
Dimensions

Type	Swing Frame (H)	Width (A) [mm]	Height (B) [mm]
SF SHA 60 36U	36U	600	1800
SF SHA 60 40U	40U	600	2000
SF SHA 80 36U	36U	800	1800
SF SHA 80 40U	40U	800	2000

*1U = 44.45 mm

19" Profiles

Dimensional drawings



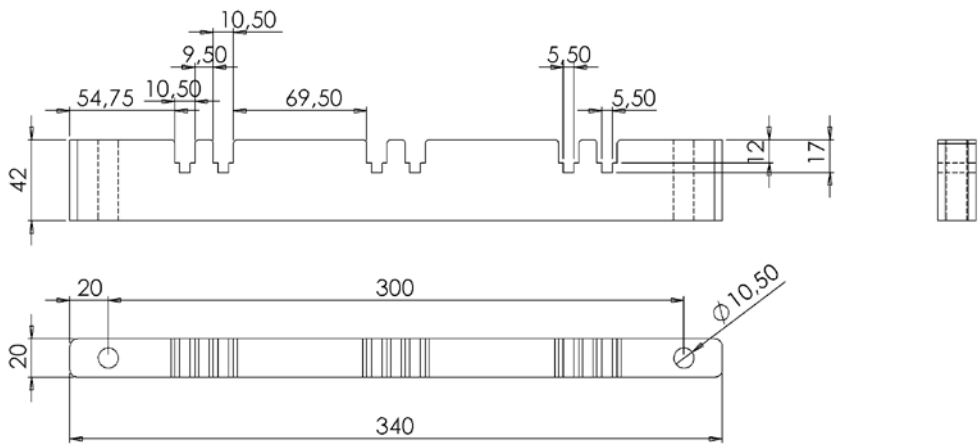
Dimensions

Type	Height (B) [mm]	Length
CP SHA 180 39U	1800	39U
CP SHA 200 43U	2000	44U

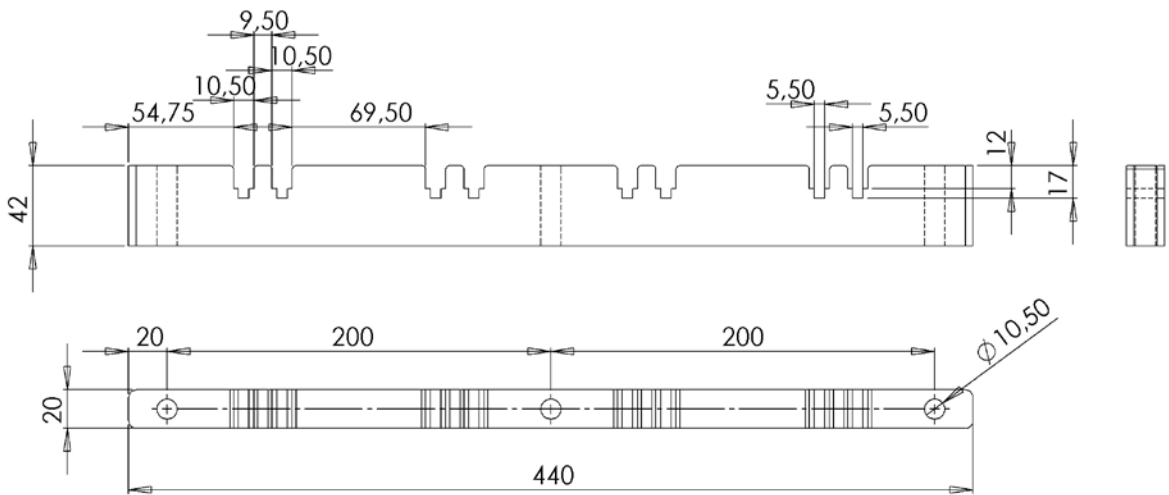
*1U = 44.45 mm

Busbar support

Dimensional



BBS SHA 3P



BBS SHA 4P

Busbars BBU, BBP and BBUE

General parameters

1, 2, 3 and 4-phase busbars
Length 1 meter (can be shortened) or shortened versions (2, 6, 9, 12, 18 modules)
Special type busbars are designed for connecting devices from the bottom side, the order of the devices is quoted from left

Electrical parameters

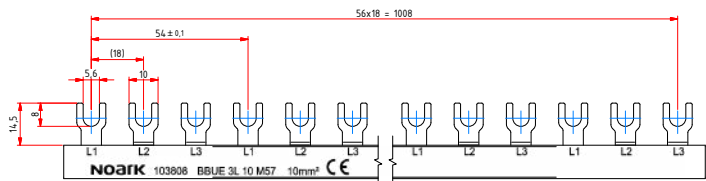
Tested according to	EN 60439-1
Rated operation voltage U_e	230 / 400 V AC
Rated current I_e	63 A (10 mm ²), 80 A (16 mm ²), 125 A (30/35 mm ²)
Rated frequency f	50 Hz
Rated impulse withstand voltage U_{imp}	4 kV (BBU, BBP) 8 kV (BBUE 35), 6 kV (BBUE)

Mechanical parameters

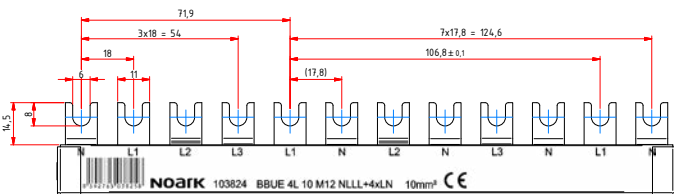
Busbar cross section	10 / 16 / 30 / 35 mm ²
Connection point type	Fork or Pin
Connection point step	8.7 mm / 13.5 mm / 18 mm / 27 mm

Dimensions

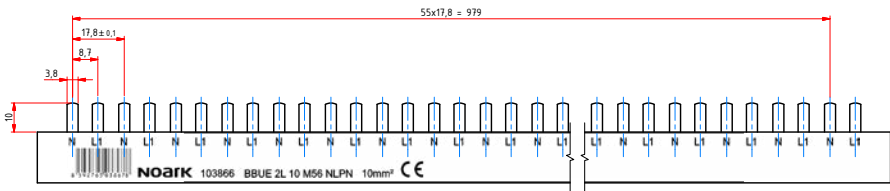
Fork types



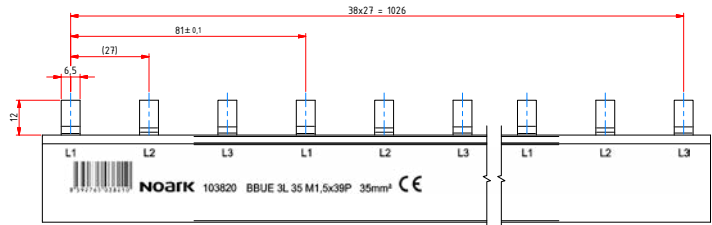
4LN fork types



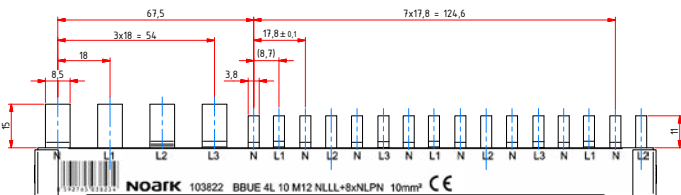
Pin types



35 mm² pin types

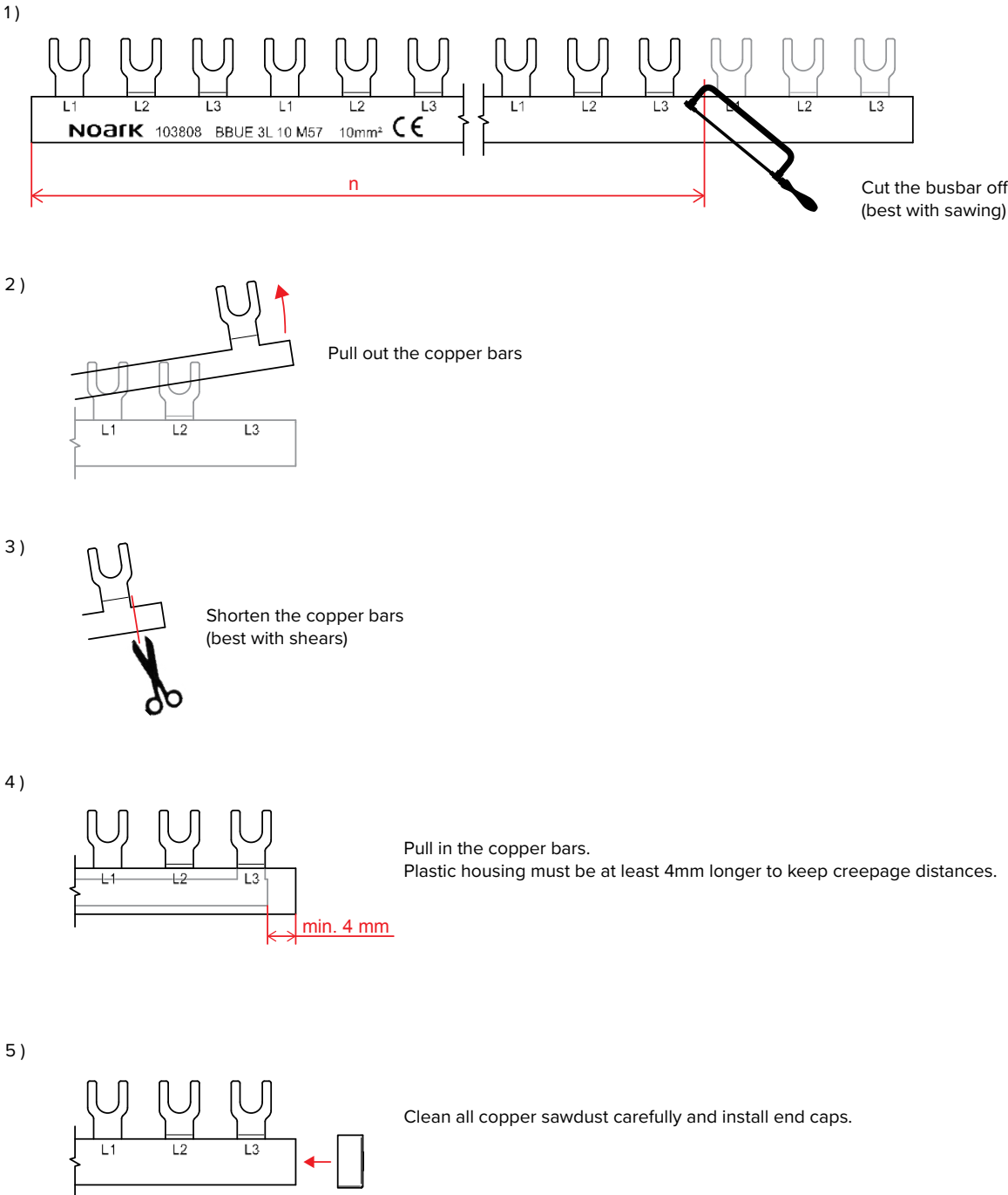


Device combination types



Busbars **BBU**, **BBP** and **BBUE**

Shortening



Busbars **BBUM**

General parameters

Busbars BBUM for connection of Motor Protective Circuit Breakers
For up to 5 motor protective circuit breakers
45, 54 or 63 mm pitch

Electrical parameters

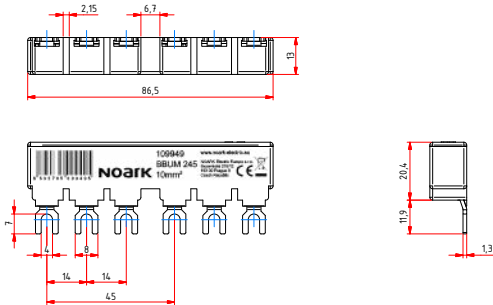
Tested according to	EN 60947-1
Rated operation voltage U_e	690 V AC
Rated current I_e	63 A
Rated frequency f	50 Hz
Rated impulse withstand voltage U_{imp}	9,5 kV

Mechanical parameters

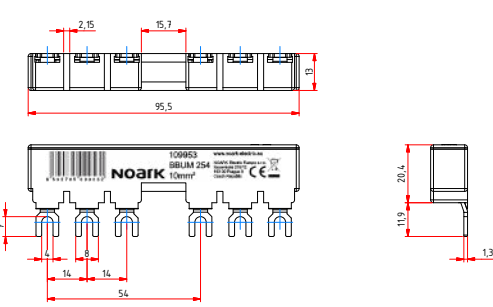
Busbar cross section	10 mm ²
Connection point type	Fork
Connection point step	45 mm / 54 mm / 63 mm
Number of connected devices	2 / 3 / 4 / 5

Dimensions

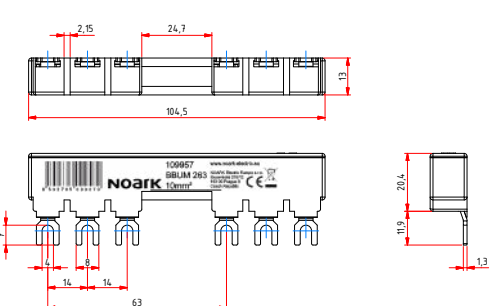
Pitch 45 mm



Pitch 54 mm



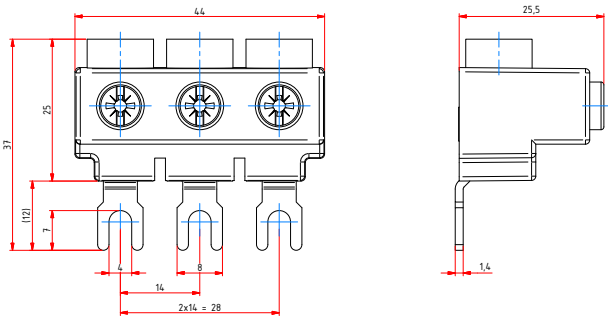
Pitch 63 mm



Busbars BBUM

Dimensions

Feeder terminal



Shortening



DO NOT CUT THE BUSBARS

Insulated terminals IT

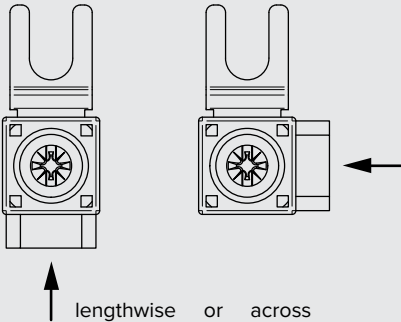
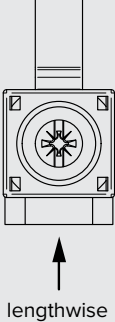
General parameters

- Fork or pin connection point type
- Connection lengthwise or across
- Gray or blue terminal colour versions

Electrical parameters

	IT.. F 63A	IT.. P 63A	IT.. P 100A
Tested according to	EN 60999-1 and EN 60999-2		
Nominal rated current I _e	63 A	63 A	125 A
Maximum current I _{max}	80 A	80 A	125 A
Max. rated operational voltage U _e	690 V AC		
Rated frequency f	50 Hz		

Mechanical parameters

	IT.. F 63A	IT.. P 63A	IT.. P 100A
Connection poing type	fork	pin	pin
Terminal	tunnel		
Terminal capacity single/multi wire fine wired with sleeve	6 - 25 mm ² 4 - 16 mm ²	6 - 25 mm ² 4 - 16 mm ²	6 - 50 mm ² 4 - 35 mm ²
Connection direction	 lengthwise or across		 lengthwise
Suitable for conductors type	Al / Cu		
Terminal colour	gray / blue		

Power distribution blocks **PDB** - 1-pole versions

General parameters					
Versions suitable for Cu conductors					
Mounting possible onto DIN rail or onto panel					

Electrical parameters					
Type suitable for Cu conductors Cu/Al conductors	103778 -	103780 -	103782 -	103784 -	103786 -
Tested according to	EN 60947-7-1				
Maximum current I _{max} with rigid cable of maximum cross section	80 A	125 A	160 A	250 A	400 A
Conventional thermal current I _{th}	80 A	125 A	160 A	250 A	400 A
Maximum operating voltage U _{max}	1000 V AC / 1500 V DC				
Short circuit withstand peak current I _{pk} 1s current I _{cw}	2.7 kA 1.9 kA	30 kA 4.2 kA	30 kA 11 kA	51 kA 21 kA	51 kA 21 kA
Comparative tracking index	600 V				
Interconnection	-	possible with Cu 15x5	possible with Cu 15x5	-	-
Pollution degree	2				
Rated impulse withstand voltage U _{imp}	4 kV				
Other parameters	according to EN 60947-7-1				

Mechanical parameters					
Height	66 mm	74 mm	92 mm	95.5 mm	95.5 mm
Width	27 mm	27 mm	35 mm	44.5 mm	44.5 mm
Depth	47 mm	47 mm	49 mm	49 mm	49 mm
Mounting	Onto 35 mm device DIN rail or onto panel				
Rated cross section of input terminal connection conductors	16 mm²	35 mm² + 16 mm²	50 mm²	95 mm²	150 mm²
Input terminals capacity for I _n (rigid cable)	1x 2.5-16 mm²	1x 10-35 mm² + 1x 2.5-16 mm²	1x 10-70 mm²	1x 35-120 mm²	1x 95-185 mm²
Fastening torque of input terminals	1.5-3 Nm	3.5-5 Nm 1.5-3 Nm	5-6 Nm	19-21 Nm	25 Nm
Rated cross section of output terminal connection conductors	16 mm² + 6 mm²	16 mm²	16 mm²	25 mm² + 16 mm² + 10 mm²	25 mm² + 16 mm² + 10 mm²
Output terminals capacity for I _n (rigid cables)	2x 2.5-16 mm² + 4x 2.5-6 mm²	6x 2.5-16 mm²	6x 2.5-16 mm²	2x 6-35 mm² + 5x 1.5-16 mm² + 4x 1.5-10 mm²	2x 6-35 mm² + 5x 1.5-16 mm² + 4x 1.5-10 mm²
Fastening torque of output terminals	2x 1.5-3 Nm 4x 0.8-1.5 Nm	2-3 Nm	1.5-3 Nm	2x 3.5-7 Nm 5x 2-3 Nm 4x 2-3 Nm	2x 3.5-7 Nm 5x 2-3 Nm 4x 2-3 Nm
Heat deflection temperature	100°C (UL94-V0)				
Degree of protection	IP20				
Weight	0.062 kg	0.136 kg	0.246 kg	0.434 kg	0.410 kg

Power distribution blocks **PDB** - 1-pole versions

General parameters					
Versions suitable for Cu or Cu/Al conductors - Al connections are not maintenance free					
Mounting possible onto DIN rail or onto panel					

Electrical parameters					
Type suitable for Cu conductors Cu/Al conductors	- 103779	- 103781	- 103783	- 103785	- 103787
Tested according to	EN 60947-7-1				
Maximum current I _{max} (Cu/Al) with rigid cable of maximum cross section	80 / 63 A	125 / 100 A	160 / 125 A	250 / 200 A	400 / 300 A
Conventional thermal current I _{th} (Cu/Al)	80 / 63 A	125 / 100 A	160 / 125 A	250 / 200 A	400 / 300 A
Maximum operating voltage U _{max}	1000 V AC / 1500 V DC				
Short circuit withstand peak current I _{pk} 1s current I _{cw}	2.7 kA 1.9 kA	30 kA 4.2 kA	30 kA 11 kA	51 kA 21 kA	51 kA 21 kA
Comparative tracking index	600 V				
Interconnection	-	possible with Cu 15x5	possible with Cu 15x5	-	-
Pollution degree	2				
Rated impulse withstand voltage U _{imp}	4 kV				
Other parameters	according to EN 60947-7-1				

Mechanical parameters					
Height	66 mm	74 mm	92 mm	95.5 mm	95.5 mm
Width	27 mm	27 mm	35 mm	44.5 mm	44.5 mm
Depth	47 mm	47 mm	49 mm	49 mm	49 mm
Mounting	Onto 35 mm device DIN rail or onto panel				
Rated cross section of input terminal connection conductors	16 mm²	35 mm² + 16 mm²	50 mm²	95 mm²	150 mm²
Input terminals capacity for I _n (rigid cable)	1x 2.5-16 mm²	1x 10-35 mm² + 1x 2.5-16 mm²	1x 10-70 mm²	1x 35-120 mm²	1x 95-185 mm²
Fastening torque of input terminals	1.5-3 Nm	3.5-5 Nm 1.5-3 Nm	5-6 Nm	19-21 Nm	25 Nm
Rated cross section of output terminal connection conductors	16 mm² + 6 mm²	16 mm²	16 mm²	25 mm² + 16 mm² + 10 mm²	25 mm² + 16 mm² + 10 mm²
Output terminals capacity for I _n (rigid cables)	2x 2.5-16 mm² + 4x 2.5-6 mm²	6x 2.5-16 mm²	6x 2.5-16 mm²	2x 6-35 mm² + 5x 1.5-16 mm² + 4x 1.5-10 mm²	2x 6-35 mm² + 5x 1.5-16 mm² + 4x 1.5-10 mm²
Fastening torque of output terminals	2x 1.5-3 Nm 4x 0.8-1.5 Nm	2-3 Nm	1.5-3 Nm	2x 3.5-7 Nm 5x 2-3 Nm 4x 2-3 Nm	2x 3.5-7 Nm 5x 2-3 Nm 4x 2-3 Nm
Heat deflection temperature	100°C (UL94-V0)				
Degree of protection	IP20				
Weight	0.062 kg	0.136 kg	0.246 kg	0.434 kg	0.410 kg

Power distribution blocks PDB - 1-pole versions

General parameters				
Versions suitable for Cu or Cu/Al conductors - Al connections are not maintenance free				
Mounting possible onto DIN rail or onto panel				

Electrical parameters				
Type suitable for Cu conductors Cu/Al conductors	105509 -	105510 -	- 103795	- 103796
Tested according to	EN 60947-7-1			
Maximum current I _{max} (Cu/Al) with rigid cable/bar of max. cross section	400 A / -	400 A / -	400 / 350 A	400 / 350 A
Conventional thermal current I _{th} (Cu/Al)	400 A / -	400 A / -	400 / 350 A	400 / 350 A
Maximum operating voltage U _{max}	1000 V AC / 1500 V DC			
Short circuit withstand peak current I _{pk} 1s current I _{cw}	50 kA 21 kA	50 kA 21 kA	50 kA 21 kA	50 kA 21 kA
Comparative tracking index	600 V			
Interconnection	-	-	-	-
Pollution degree	2			
Rated impulse withstand voltage U _{imp}	4 kV			
Other parameters	according to EN 60947-7-1			

Mechanical parameters				
Height	103 mm	103 mm	103 mm	103 mm
Width	45 mm	45 mm	45 mm	45 mm
Depth	50.2 mm	50.2 mm	50.2 mm	50.2 mm
Mounting	Onto 35 mm device DIN rail or onto panel			
Rated cross section of input terminal connection conductors	185 mm ²	185 mm ²	185 mm ²	185 mm ²
Input terminals capacity for I _n (rigid cable)	1x single/multi wire 95 - 240 mm ²	1x single/multi wire 95 - 240 mm ²	1x single/multi wire 95 - 240 mm ²	1x single/multi wire 95 - 240 mm ²
Other input connection possibilities with reduced current with respect to actual cable cross section	fine wire (with sleeve) 70 - 185 mm ²	fine wire (with sleeve) 70 - 185 mm ²	fine wire (with sleeve) 70 - 185 mm ²	fine wire (with sleeve) 70 - 185 mm ²
Fastening torque of input terminals	25 Nm	25 Nm	25 Nm	25 Nm
Rated cross section of output terminal connection conductors	35 mm ²	95 mm ²	35 mm ²	95 mm ²
Output terminals capacity for I _n (rigid cables)	6x single/multi wire 10-50 mm ²	2x single/multi wire 50-120 mm ²	6x single/multi wire 10-50 mm ²	2x single/multi wire 50-120 mm ²
Other output connection possibilities with reduced current with respect to actual cable cross section	fine wire (with sleeve) 6-35 mm ²	fine wire (with sleeve) 35-95 mm ²	fine wire (with sleeve) 6-35 mm ²	fine wire (with sleeve) 35-95 mm ²
Fastening torque of output terminals	3.5-7 Nm	19 Nm	3.5-7 Nm	19 Nm
Heat deflection temperature	100°C (UL94-V0)			
Degree of protection	IP20			
Weight	0.516 kg	0. 581 kg	0.516 kg	0. 581 kg

Power distribution blocks PDB - 3-pole versions

General parameters		
Versions suitable for Cu or Cu/Al conductors - Al connections are not maintenance free		
Mounting possible onto DIN rail or onto panel		

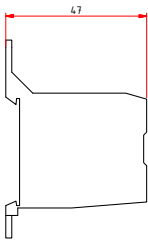
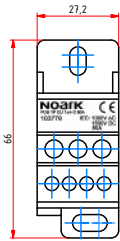
Electrical parameters		
Type suitable for Cu conductors Cu/Al conductors	103788 -	- 103789
Tested according to	EN 60947-7-1	
Maximum current I _{max} (Cu/Al) with rigid cable of maximum cross section	175 A / -	175 / 125 A
Conventional thermal current I _{th} (Cu/Al)	175 A / -	175 / 125 A
Maximum operating voltage U _{max}	1000 V AC / 1500 V DC	
Short circuit withstand peak current I _{pk} 1s current I _{cw}	30 kA 11 kA	30 kA 11 kA
Comparative tracking index	600 V	
Poles	3	3
Interconnection	-	-
Pollution degree	2	
Rated impulse withstand voltage U _{imp}	4 kV	
Other parameters	according to EN 60947-7-1	

Mechanical parameters		
Height	80 mm	80 mm
Width	71.5 mm	71.5 mm
Depth	42.5 mm	42.5 mm
Mounting	Onto 35 mm device DIN rail or onto panel	
Rated cross section of input terminal connection conductors	50 mm ²	50 mm ²
Input terminals capacity for I _n per pole (rigid cable)	1x 16-70 mm ²	1x 16-70 mm ²
Fastening torque of input terminals	6-10 Nm	6-10 Nm
Rated cross section of output terminal connection conductors	16 mm ²	16 mm ²
Output terminals capacity for I _n per pole (rigid cables)	6x 2.5-16 mm ²	6x 2.5-16 mm ²
Fastening torque of output terminals	3-4 Nm	3-4 Nm
Heat deflection temperature	100°C (UL94-V0)	
Degree of protection	IP20	
Weight	0.385 kg	0.375 kg

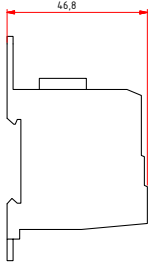
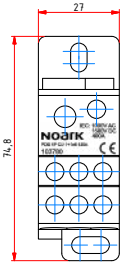
Power distribution blocks PDB

Dimensional drawings

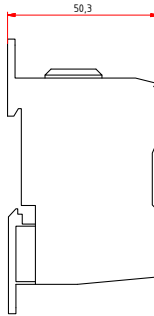
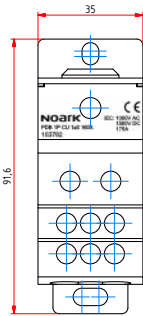
103778 - PDB 1P CU 1x4+2 80A
103779 - PDB 1P CU/AL 1x4+2 80/63A



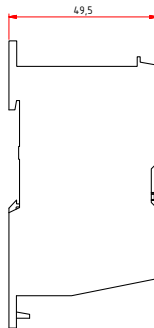
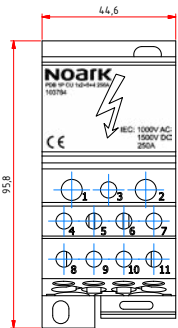
103780 - PDB 1P CU 1+1x6 125A
103781 - PDB 1P CU/AL 1+1x6 125/100A



103782 - PDB 1P CU 1x6 160A
103783 - PDB 1P CU/AL 1x6 160/125A



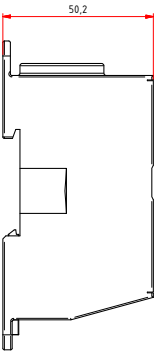
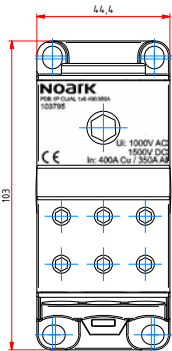
103784 - PDB 1P CU 1x2+5+4 250A
103786 - PDB 1P CU 1x2+5+4 400A
103785 - PDB 1P CU/AL 1x2+5+4 250/200A
103787 - PDB 1P CU/AL 1x2+5+4 400/300A



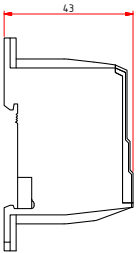
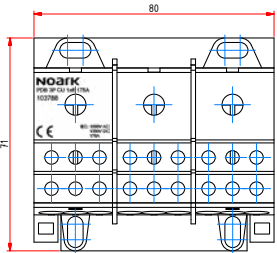
Power distribution blocks PDB

Dimensional

105509 - PDB 1P CU 1x6 400A
105510 - PDB 1P CU 1x2 400A
103795 - PDB 1P CU/AL 1x6 400/350A
103796 - PDB 1P CU/AL 1x2 400/350A



103788 - PDB 3P CU 1x6 175A
103789 - PDB 3P CU/AL 1x6 175/125A



Neutral and earthing terminal bars

Neutral and grounding terminal bars for distribution enclosures
7, 12 and 15 terminal versions
DIN-rail mounting

Electrical parameters			
	TBB / TBG ÷16	TBB / TBG ÷10	TB ÷10
Tested according to	EN 60998-1 EN 60998-2-1		
Rated current I _e	63 A		
Rated isolation voltage U _i	690 V AC		
Rated frequency f	50 Hz		

Mechanical parameters			
	TBB / TBG ÷16	TBB / TBG ÷10	TB ÷10
Terminal capacity	up to 16 mm ²	up to 10 mm ²	up to 10 mm ²
Min. terminal capacity	1.5 mm ²	1.5 mm ²	1.5 mm ²
Terminal cover colour	blue / green	blue / green	-

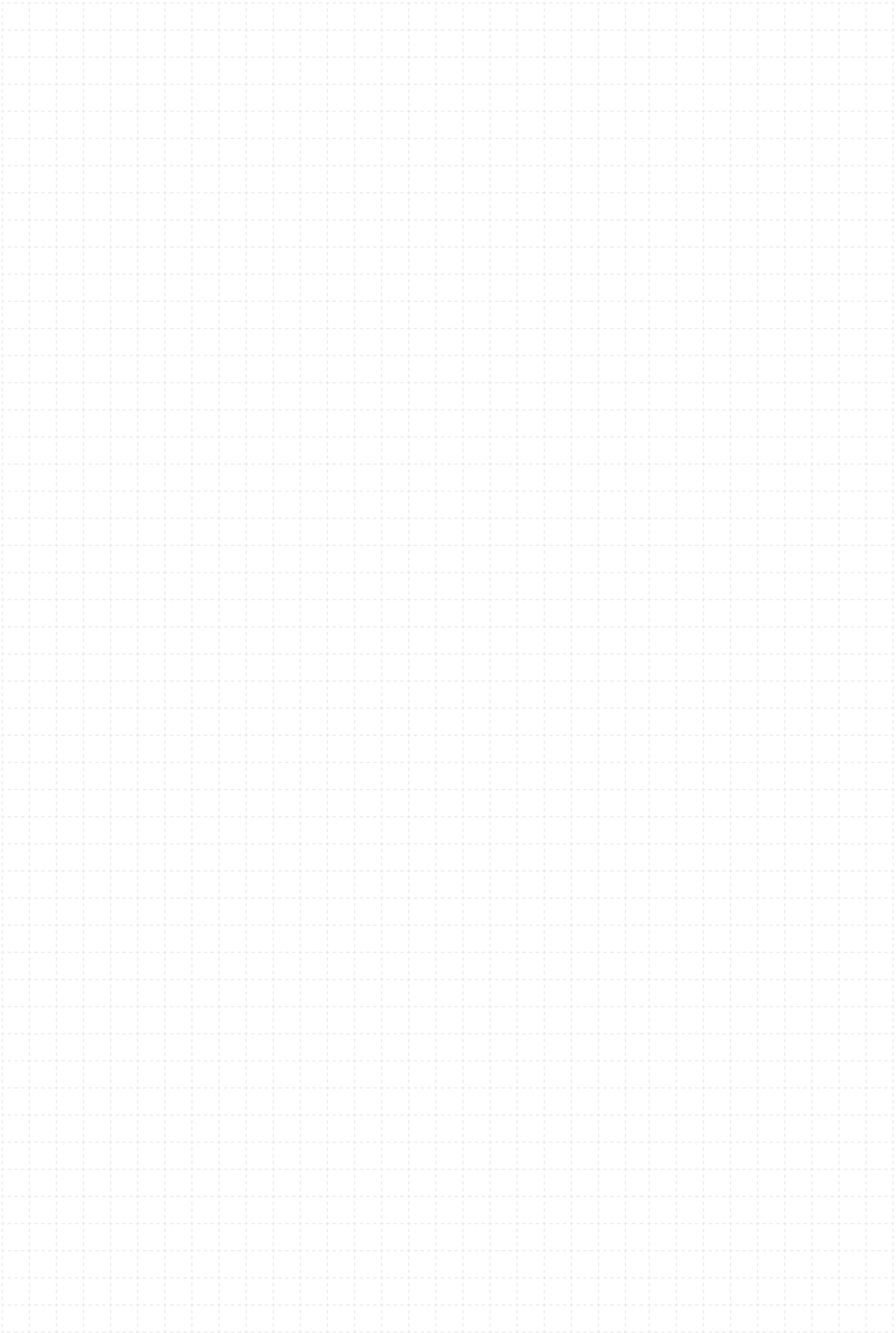
DIN-rail service socket

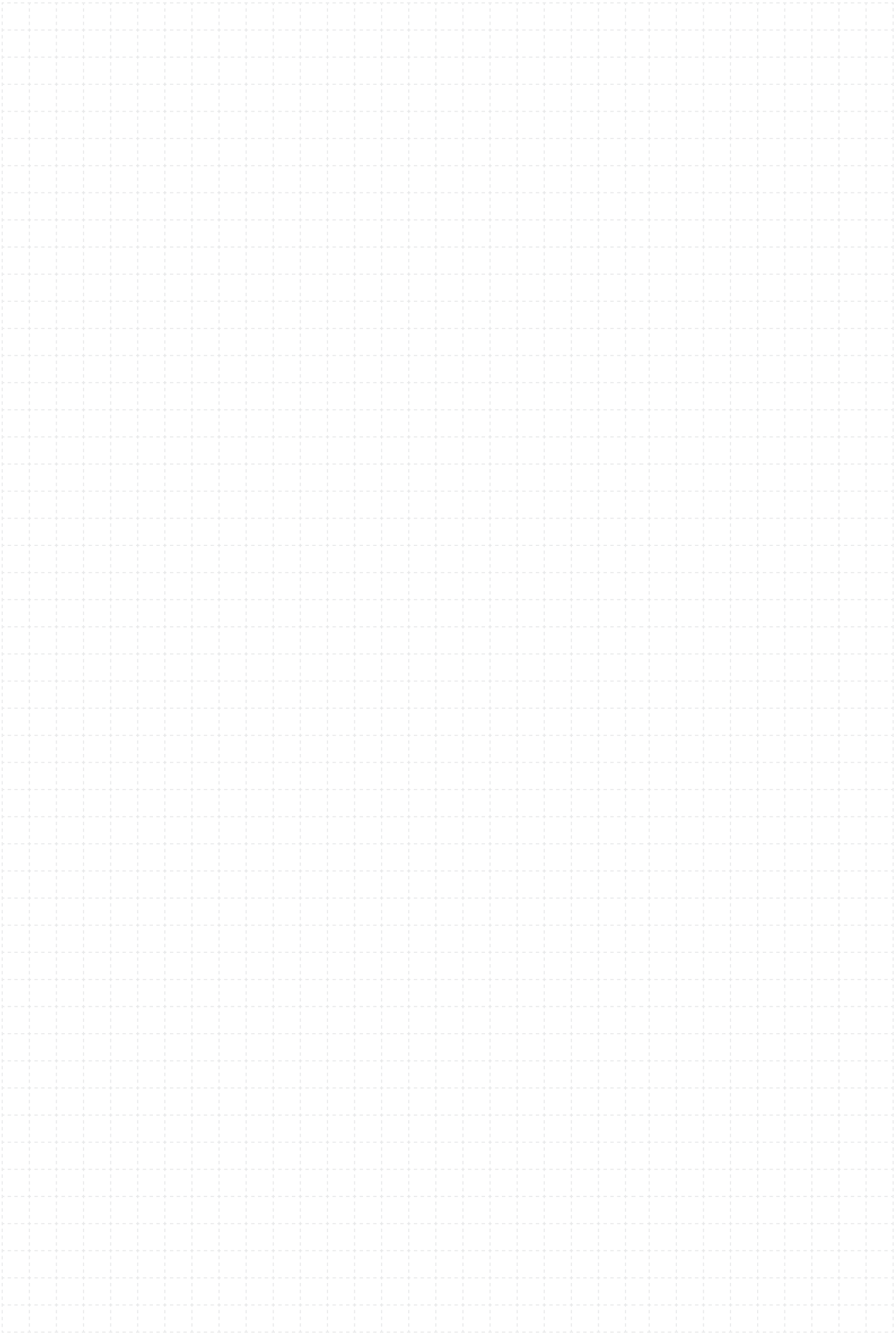
General parameters
Earth pin and Schuko standard
DIN-rail mounting

Electrical parameters	
Tested according to	IEC 60884-1
Rated current I _e	16 A
Rated operating voltage U _e	250 V AC
Rated insulation voltage U _i	1000 V AC
Rated frequency f	50/60 Hz

Mechanical parameters	
Device width	45 mm
Device height	65 mm
Frame size	45 mm
Mounting	easy fastening onto 35 mm device rail (DIN)
Degree of protection	IP20
Terminals	lift
Terminal capacity	1 — 6 mm ²
Fastening torque of terminals	0.8 — 2 Nm
Ambient temperature	-25 — +40 °C
Weight	0.11 kg

Dimensions	





WIDE RANGE
OF **ENCLOSURES**
FOR **DOMESTIC**
AND **INDUSTRIAL**
USAGE

5 years
WARRANTY





MOULDED CASE CIRCUIT BREAKERS CATALOGUE

- MOULDED CASE CIRCUIT BREAKERS
- MOULDED CASE SWITCH DISCONNECTORS
- DC MOULDED CASE CIRCUIT BREAKERS
- DC MOULDED CASE SWITCH DISCONNECTORS
- ACCESSORIES FOR MOULDED CASE CIRCUIT BREAKERS



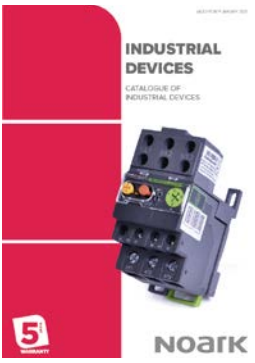
INSTALLATION DEVICES CATALOGUE

- MINIATURE CIRCUIT BREAKERS
- POWER SUPPLIES
- RESIDUAL CURRENT CIRCUIT BREAKERS
- SURGE PROTECTION DEVICES
- AND MANY MORE ...



PHOTOVOLTAIC COMPONENTS AND SOLUTIONS CATALOGUE

- MINIATURE CIRCUIT BREAKERS
- FUSE DISCONNECTORS
- EV CHARGERS
- SURGE PROTECTION DEVICES
- AND MANY MORE ...



INDUSTRIAL DEVICES CATALOGUE

- CONTACTORS AND RELAYS
- MOTOR PROTECTIVE CIRCUIT BREAKERS
- OVERLOAD THERMAL RELAYS
- PANEL MOUNTED DEVICES
- AND MANY MORE ...



CONSUMER UNITS CATALOGUE

- PLASTIC CONSUMER UNITS
- PLASTIC CONSUMER UNITS WITH SHEET STEEL DOOR
- PLASTIC CONSUMER UNITS FOR OUTDOOR USE
- METAL ENCLOSURES WITH MOUNTING PLATES
- AND MANY MORE ...

