

CONSUMER UNITS

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

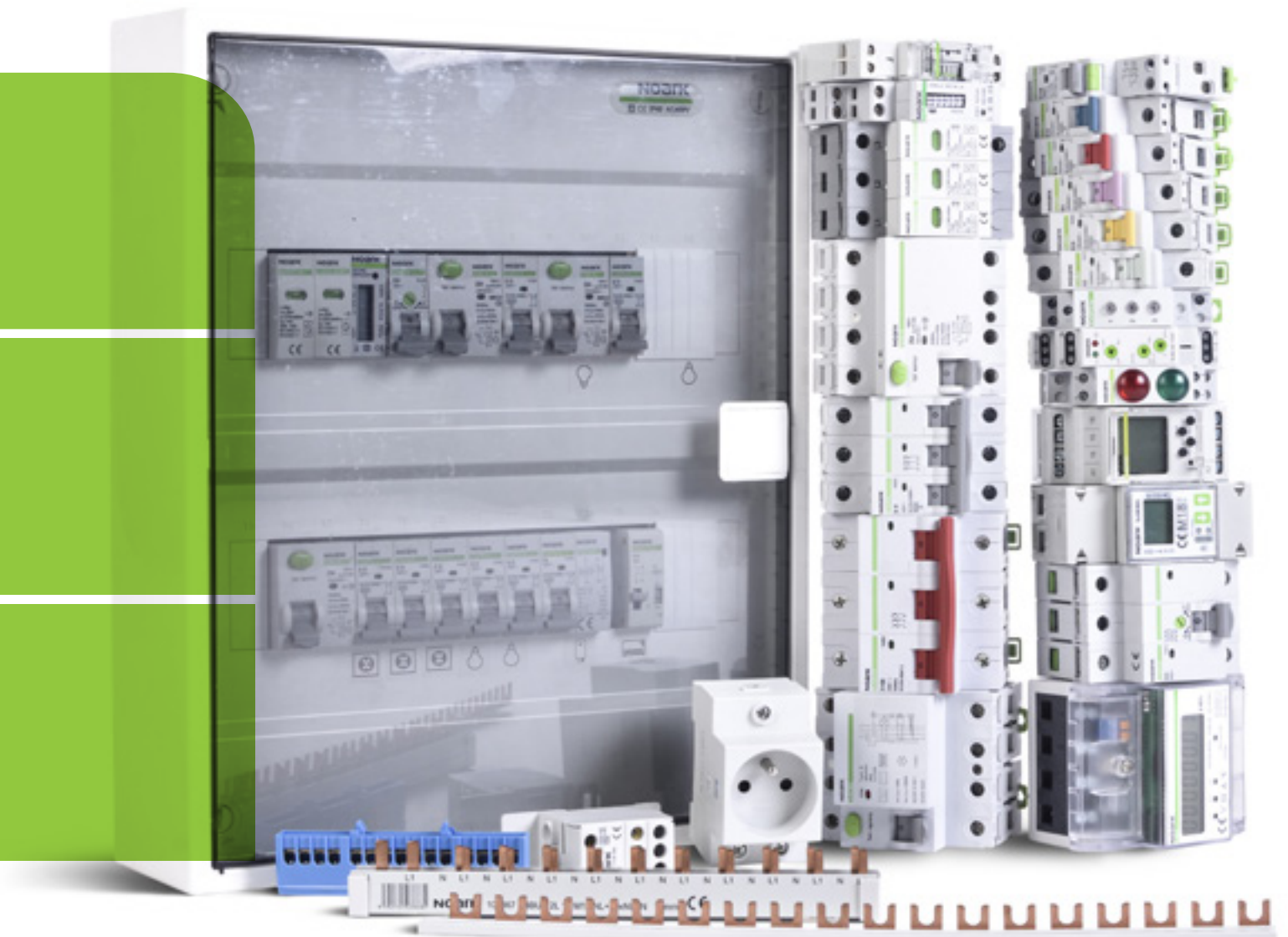


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Interconnection Systems

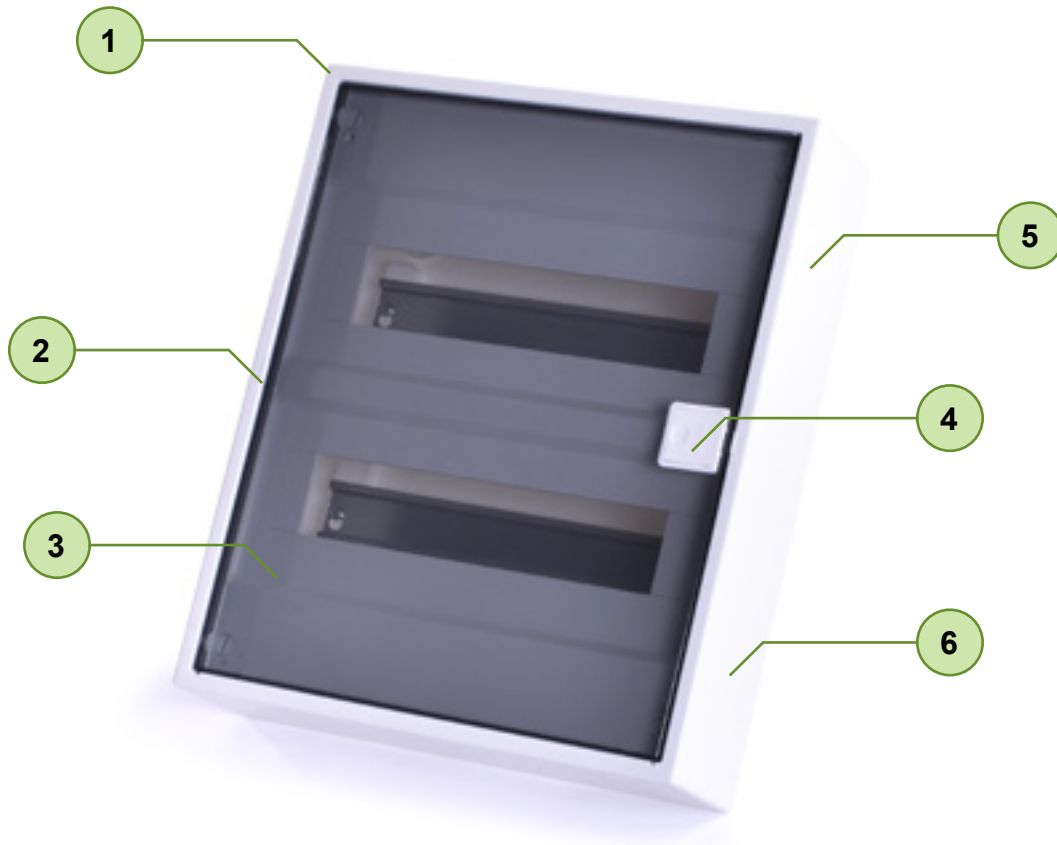
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Plastic Consumer Units



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 Desing version

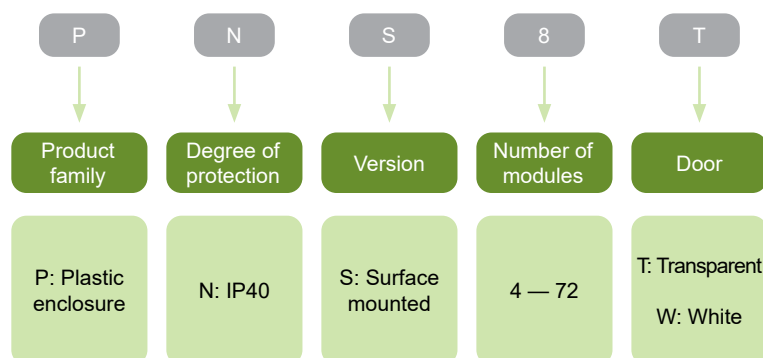
Surface-mounted IP40 Consumer Units PNS



- 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	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	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 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 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

Additional insulated terminal


- Additional insulated terminal with holder
- Grey colour
- 2 x 10 or 2 x 15 terminals



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

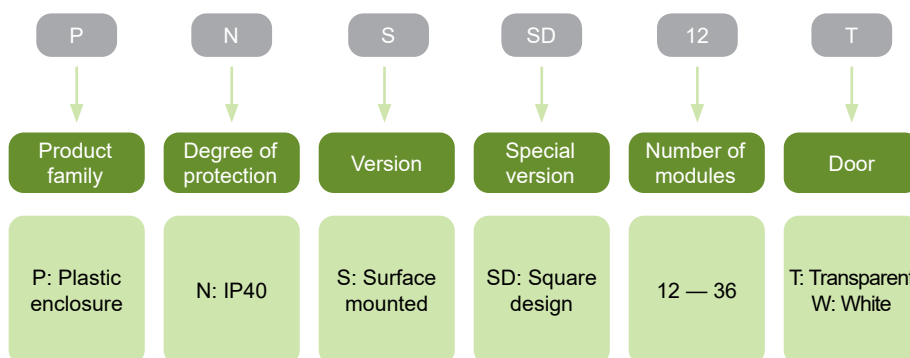
Surface-mounted IP40 Consumer Units PNS-SD



- 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. 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-SD

Consumer units PNS 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 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

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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



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

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

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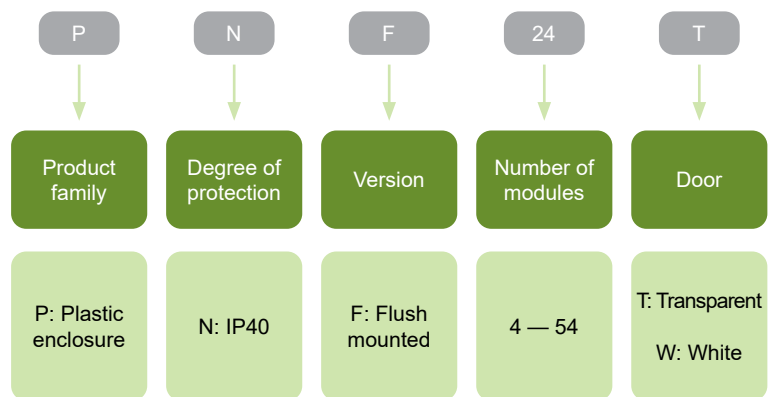
Flush-mounted IP40 Consumer Units PNF



- Flush-mounted consumer units PNF
- Degree of protection IP40
- 4 up to 54 modules
- 1 up to 3 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 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
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	2	24	101514	PNF 24T	1
15+15	2	36	101515	PNF 2x18T	1
15+15	3	36	101516	PNF 36T	1
26+26	3	54	106198	PNF 3x18T	1

Consumer units PNF with white door

- Flush mounted version
- 4, 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
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	2	24	101520	PNF 24W	1
15+15	2	36	101521	PNF 2x18W	1
15+15	3	36	101522	PNF 36W	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 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 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 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 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 terminals with holder
- Grey colour
- 2 x 10 or 2 x 15 terminals



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

Covers for empty places

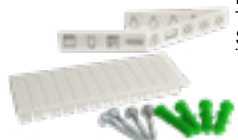
- Covers for unused 45 mm device cutouts
- White, grey or black colour
- Total width 224 mm, can be shortened
- Segmented as 1x 15 mm, 22 x 1/2 module width, 1x 15 mm



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

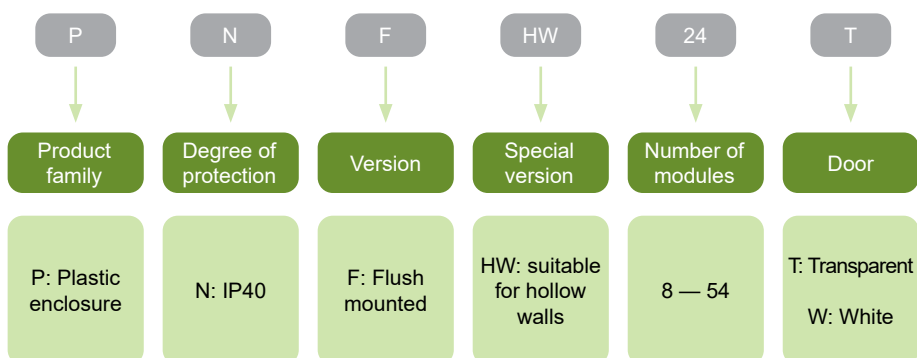


- Flush-mounted consumer units PNF-HW suitable for hollow-walls mounting
- Bottom part moulded from high-resistance plastic to fulfill requirements for hollow wall installation by means of glow wire test at 850 °C
- Degree of protection IP40
- 8 up to 54 modules
- 1 up to 3 rows
- Transparent or white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

Additional insulated terminal


- Additional insulated terminal with holder
- Grey colour
- 2 x 10 or 2 x 15 terminals



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

Covers for empty place


- Covers for unused 45 mm device cutouts
- 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

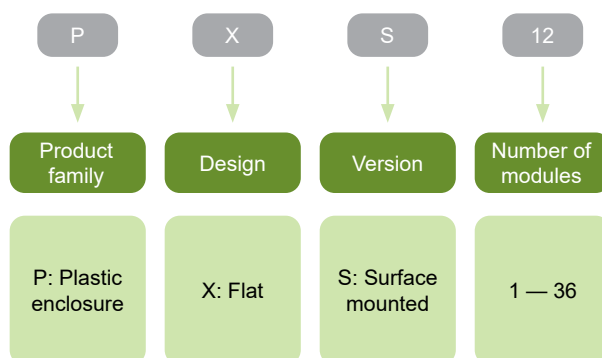
Surface-mounted IP30 Consumer Units PXS



- 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 terminals with holder
- Grey colour
- 2x10 or 2 x 15 terminals



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

Technical data p. 103

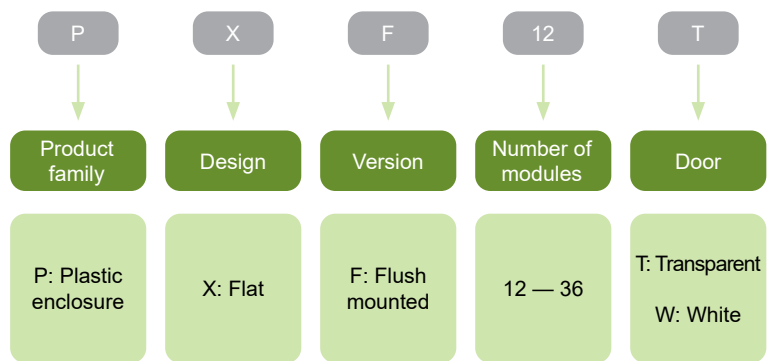
Flush-mounted IP40 Consumer Units PXF



- 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



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

Cover 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

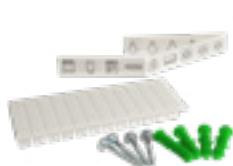


Colour	Width	Article No.	Type	Packing
White	224 mm	101574	B CC45	1/500
Grey	224 mm	113277	B CC45 G	1/500
Black	224 mm	110192	B CC45 B	1/500

Flush-mounted IP40 Consumer Units PXF

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)



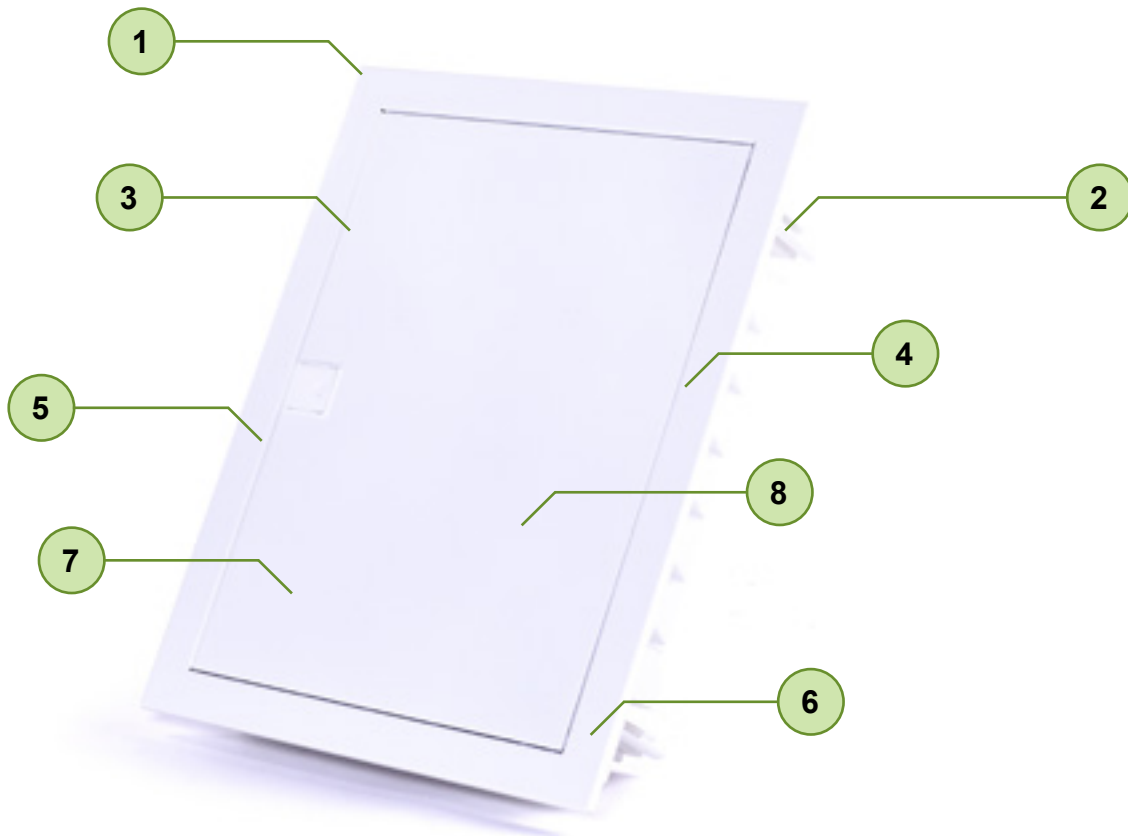
Description	Article No.	Type	Packing
Holder for double terminal	110820	DTH	1 set

Plastic Consumer Units with Sheet Steel Door



Plastic Consumer Units with Sheet Steel Door

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 accesories
- 7 Mounting plates for data devices
- 8 Heat dissipation metal door with perforation

Consumer Units PMF



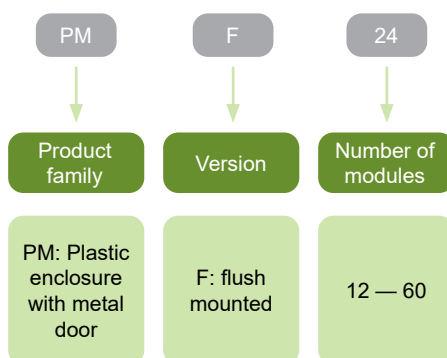
- Flush-mounted consumer units with sheet-steel door PMF
- Tested according to EN 60670 and EN 62208
- Rated current up to 63 A
- Degree of protection IP40
- 12 modules per a row, can be extended to 14
- 1 up to 5 rows
- White (RAL 9016) colour of the door
- Easy mounting into hollow walls
- Mounting 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 IK06.

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

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

- 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

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

Consumer Units PMF

Additional insulated terminal


- Additional insulated terminal with holder, one insulated terminal in the standard scope of delivery
- Grey colour
- 2 x 10 or 2 x 15 terminals
- 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

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 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

Notes

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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

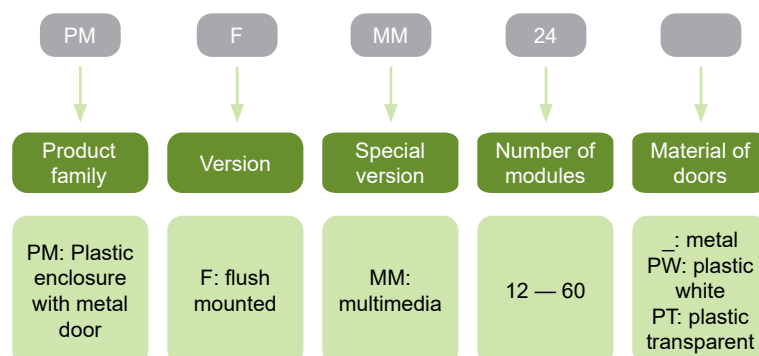
Consumer units PMF- MM are intended mainly for domestic applications. Theirs design is suitable for flush mounting. Dual fixing system allows using also for hollow walls. Tested with glow wire test at 850°C. The height-adjustable front frame allows to compensate wall surface imperfections.

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 IK06.

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

Multimedia consumer units PMF-MM with perforated white metal door

- Flush mounted
- 1 mouting plate per row
- 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



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
- 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



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, 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

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

Multimedia Consumer Units PMF-MM

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
- Height 110 mm
- One mounting plate per row



Description	Height	Article No.	Type	Packing
Mounting plate	110 mm	108052	MP PM	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

Multimedia Consumer Units PMF-MM

Network devices holder

- Multi-functional holder for routers and switches up to 5 cm width



Description	Article No.	Type	Packing
Network devices holder	109047	RH PMF-MM	1

Additional insulated terminals

- Additional insulated terminals with holder, one insulated terminal in the standard scope of delivery
- Grey colour
- 2 x 10 or 2 x 15 terminals
- 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

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

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

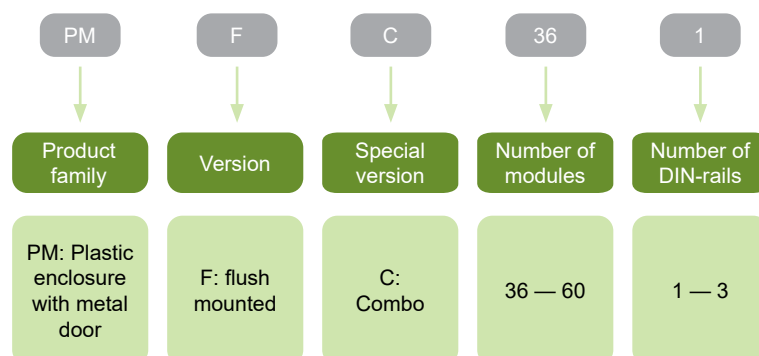
Consumer units PMF-C are intended mainly for domestic applications. Combine energetics and IT equipment, with a possibility to be placed all in one enclosure. This solution saves space and contributes to a greater comfort of housing. Theirs design is suitable for flush mounting. Dual fixing system allows 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 IK06.

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

Combo consumer units PMF-C with perforated white metal door

- Flush mounted
- Up to 4 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



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 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

Combo Consumer Units PMF-C

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
- Height 110 mm
- One mounting plate per row



Description	Height	Article No.	Type	Packing
Mounting plate	110 mm	108052	MP PM	1

DIN rail

- Single DIN rail for 12 modules




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

Combo Consumer Units PMF-C

Additional insulated terminal


- Additional insulated terminal with holder, one insulated terminal in the standard scope of delivery
- Grey colour
- 2 x 10 or 2 x 15 terminals
- 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

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

Combo Consumer Units PMF-C

Network devices holder

- Multi-functional holder for routers and switches up to 5 cm width



Description	Article No.	Type	Packing
Network devices holder	109047	RH PMF-MM	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

Notes

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Plastic Consumer Units for Outdoor Use



Plastic Consumer Units for Outdoor Use

Professional Tips



- 1 5 years warranty
- 2 Degree of protection IP65
- 3 4 up to 36 modules
- 4 Transparent door
- 5 Surface mounting version
- 6 Wide range of accessories and spare parts

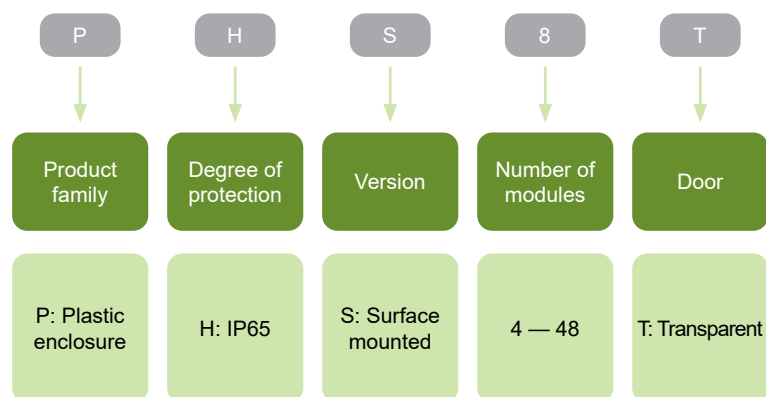
Surface-mounted IP65 Consumer Units PHS



- 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



Surface-mounted IP65 Consumer Units PHS

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

Surface-mounted IP65 Consumer Units PHS

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

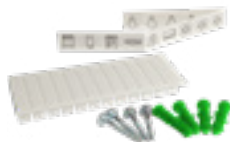
- Cover for unused 45 mm device cutout
- White, grey or black colour
- Total width 224 mm, can be shortened
- Segmented as 1x 15 mm, 22 x 1/2 module width, 1x 15 mm



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

Notes

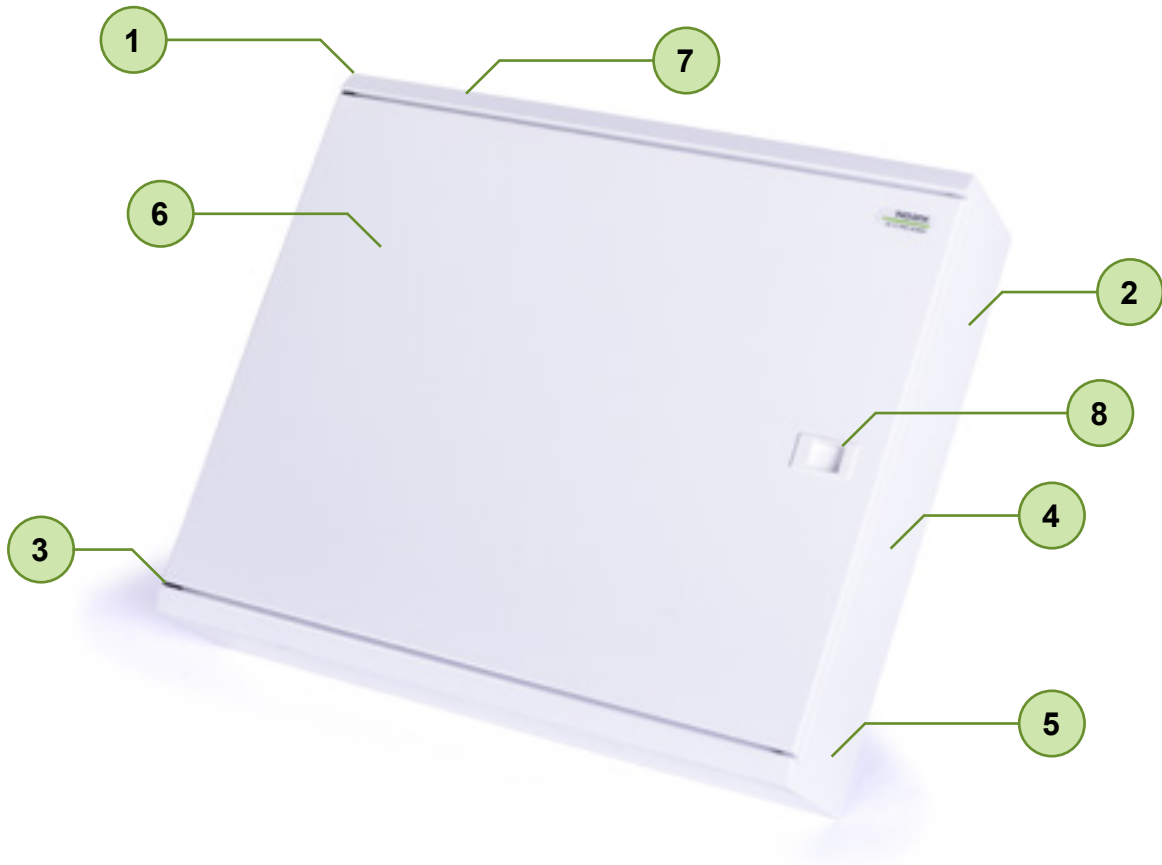
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Metal Flat Enclosure



Metal Flat Enclosure

Professional Tips



- 1 5 years warranty
- 2 Surface and flush mounting version
- 3 Adjustable door frame
- 4 Comfortable mounting into all types of walls
- 5 Pre-cut openings for conductors
- 6 Easy change of door
- 7 Pre-pressed openings for cable grommets
- 8 Standardized key-lock system

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

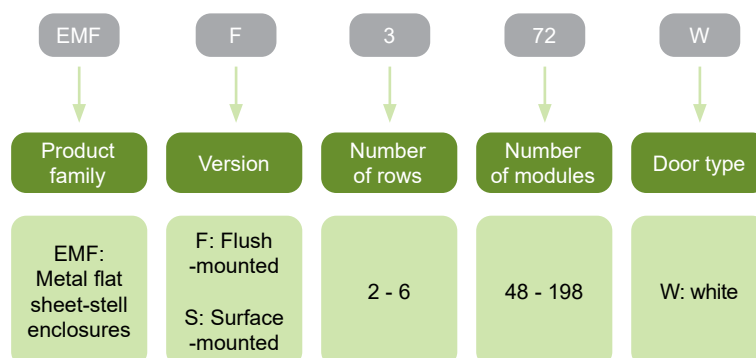
Sheet-steel enclosures EMFF/EMFS are suitable for various applications mainly in domestic and commercial installations. Their flat design and technical solution allow easy mounting onto wall or into relatively narrow walls, including plasterboard ones.

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.

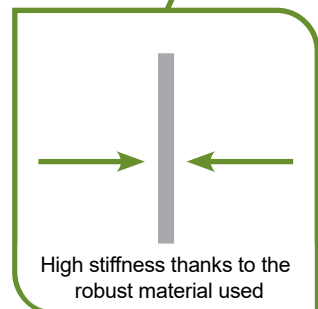
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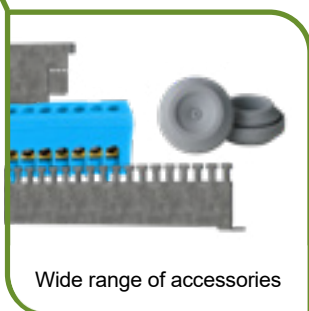
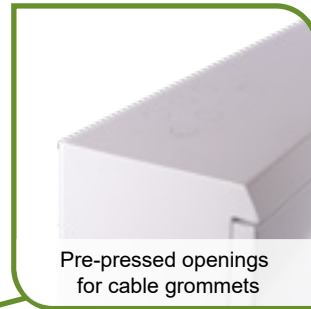
Certification marks



Metal flat enclosures EMF



Metal flat enclosures EMF



Metal flat enclosures EMF

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

Metal flat enclosures EMF

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 flat enclosures EMF

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
- Mounting screws in the scope of delivery

Metal front plates with device cutout 45 mm



Description	Modules per a 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 a 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-sheet
- Packed separately
- Mounting material in the scope of delivery




Description	Modules per a 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

Metal flat enclosures EMF

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-sheet
- 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-sheet
- Packed separately
- Mounting material in the scope of delivery



Description	Modules per a 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-sheet
- Packed separately
- Mounting material in the scope of delivery



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

Metal flat enclosures EMF

Mounting holders

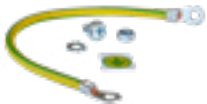
- Set of metal straps for fixing and easier mounting of flush mounted enclosures into the walls
- Can be used as mounting holders when installing into brick walls or for fixing into construction of plaster boards, when the wall supports are not located directly at the edge of the enclosure
- Packed separately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

Technical data p.117

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 (1x 25 + 46x 16 mm ²)	109829	EMF TB45+2	1

Metal flat enclosures EMF

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

Metal flat enclosures EMF

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 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

- 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 mm ²	blue	103854	TBB 7x10	1/10
7	10 mm ²	green	103855	TBG 7x10	1/10
12	10 mm ²	blue	103856	TBB 12x10	1/10
12	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 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 mm ²	103858	TB 7x10	1/10
12	10 mm ²	103859	TB 12x10	1/10

Metal flat enclosures EMF

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
- Two versions according to number of pages
- PVC material
- Packed separately



Description	Size	Article No.	Type	Packing
Self-adhesive documentation pocket	A4	106831	MF PDP A4	1
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

Metal flat enclosures EMF

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

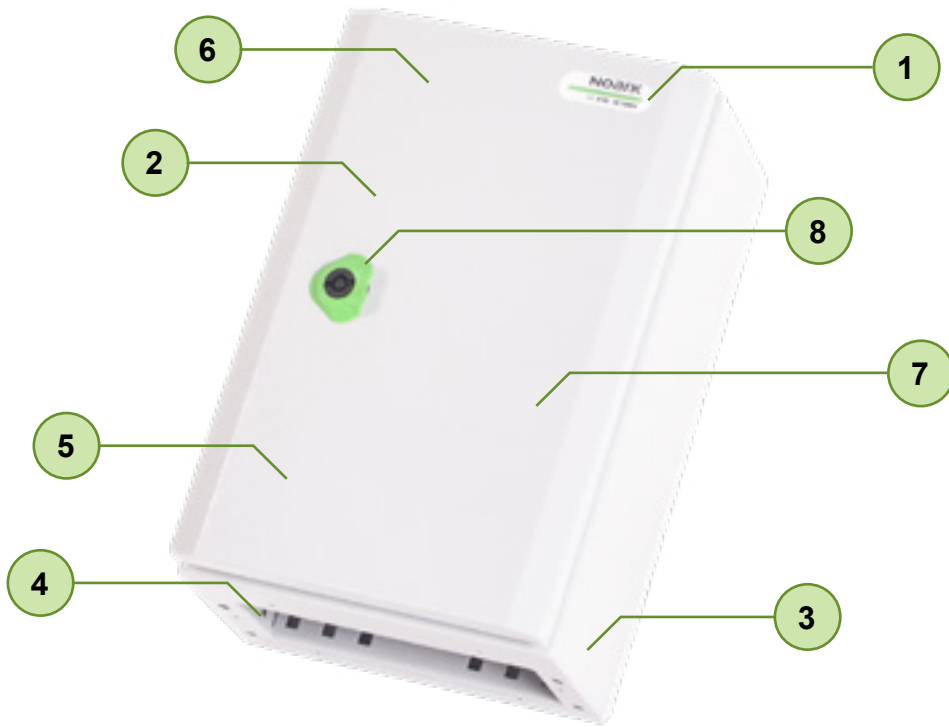
- Enclosures EMF can be produced in modified design
- Changes must not affect general parameters of the enclosure
- Typical changes - e.g. non-standard dimensions (within the range of smallest and biggest type), different internal configuration, etc.
- Please contact NOARK staff with specification, based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

Metal Enclosures with Mounting Plates



Metal Enclosures with Mounting Plates

Professional Tips



- 1 5 years warranty
- 2 High protection degree IP66
- 3 Fully welded construction
- 4 Top and bottom gland plates
- 5 Robust design with IK10
- 6 Durable powder coating RAL 7035
- 7 Thick galvanized mounting plate
- 8 Wide range of accessories

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

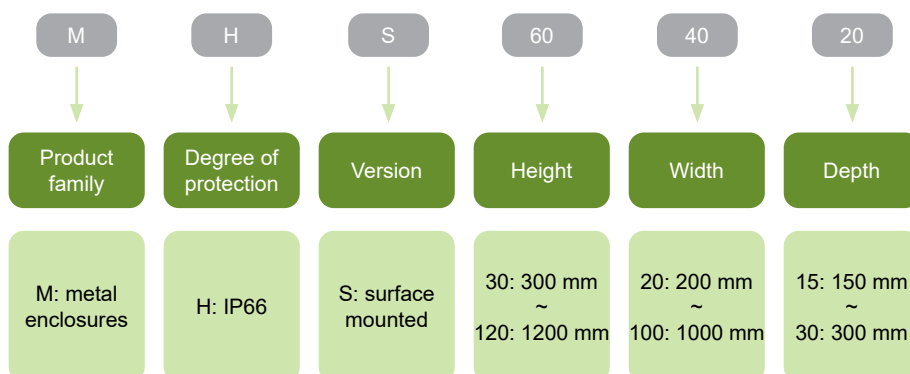
Metal enclosures MHS with mounting plates are surface mounted enclosures suitable mainly for industrial applications where high protection degree (IP) is needed. Protection degree IP66 for single door enclosures and IP55 for double door enclosures.

Usage of quality sheet steel and fully welded construction are the key elements for robustness and rigidity with IK10. Gland plates on bottom and top of enclosure can provide you a maximum possibility of adaptation your application requests. Also due to enclosure symmetry, 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



IP66 Metal enclosures MHS

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	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	1000 mm	300 mm	2	110585	MHS 120 100 30	1

IP66 Metal enclosures MHS

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 downgrade 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

IP66 Metal enclosures MHS

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

IP66 Metal enclosures MHS

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

IP66 Metal enclosures MHS

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

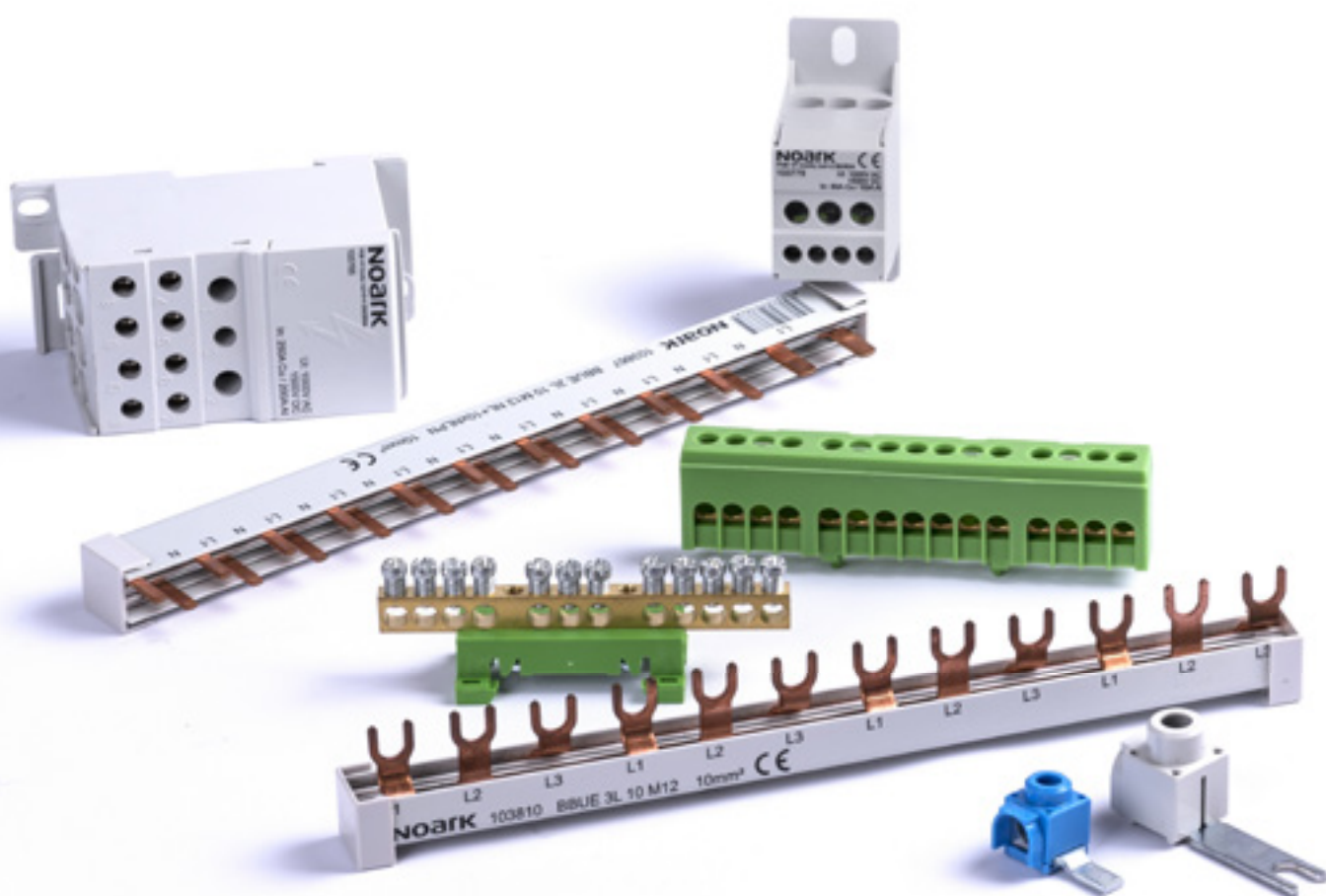
Cable brush entry

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



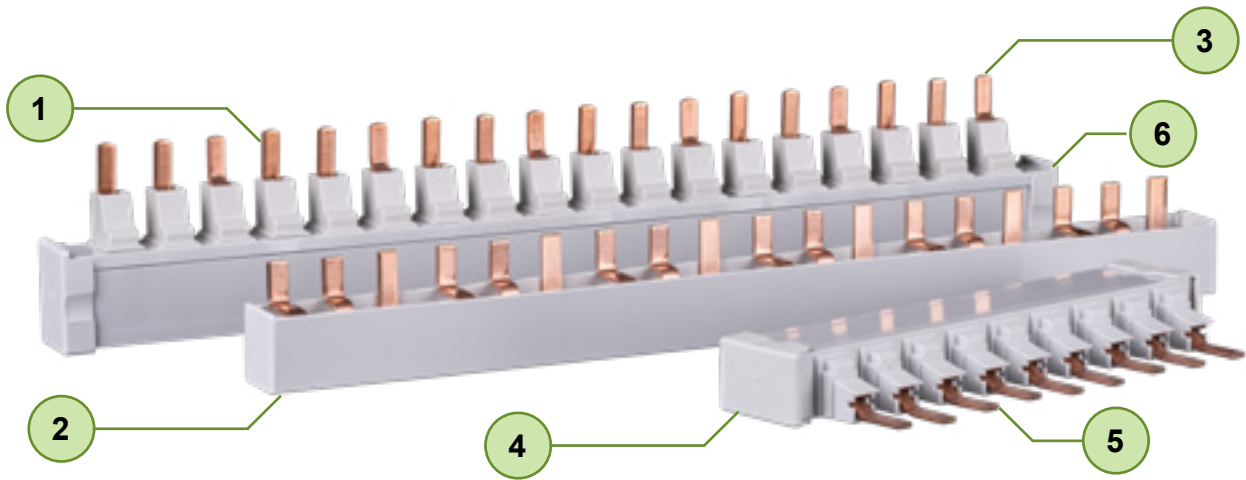
Height of brush	Article No.	Type	Packing
55 mm	110811	CB MHS 5.5	1 roll
35 mm	110812	CB MHS 3.5	1 roll

Interconnection Systems



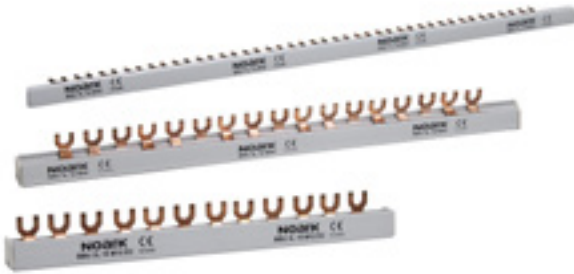
Interconnection Systems

Professional Tips



- 1 5 years warranty
- 2 Wide range of different busbars
- 3 Fork and pin type connection points
- 4 Distribution blocks up to 400 A
- 5 Various combinations of outputs and inputs
- 6 Different types of spare terminals

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
- 9, 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

BBUE	3L	10	M	12		P
Product family	Number of separate conductors	Cross section	Step	Length in modules	Special conductors order	Connection point type
BBU, BBP, BBUE: Busbars	1L: 1 way (L1 L1 L1 L1...) 2L: 2 ways (L1 N L1 N...) 3L: 3 ways (L1 L2 L3 L1...) 4L: 4 ways (L1 L2 L3 N...) 4LN: 4 ways (L1 N L2 N...)	10: 10 mm ² 16: 16 mm ² 30: 30 mm ² 35: 35 mm ²	M: 18 mm M1,5: 27 mm	2 6 9 12 18 54 (1m) 56 (1m) 57 (1m) 72 (1m)		_: fork type P: pin type PN: pin type (for Ex9PN devices, step 9 mm)

Certification mark



Busbars BBU

1 meter BBU busbars

- 1 and 3-phase busbars
- With 54 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
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

Shortened BBU busbars

- 3-phase busbars
- 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
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

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

Pin type shortened 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

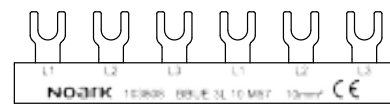


Number of phases	Length MU	Cross section	Article No.	Type	Packing
1	12	10 mm ²	113242	BBP 1L 10 M12 EU	1/10/500
3	12	10 mm ²	113243	BBP 3L 10 M12 EU	1/5/180

Busbars BBUE

1 meter fork type busbars

- 1, 2, 3 and 4-phase versions
- Length 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

1 meter 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 and 1MU RCBO Ex9NLE
- 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 3/4MU	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 and 1M RCBO Ex9NLE
- 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



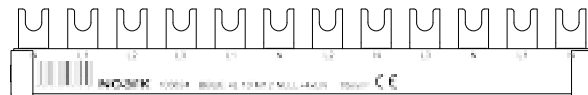
Number of phases	Length MU	Cross section	Article No.	Type	Packing
2	12	10 mm ²	111407	BBP 2LN 10 M12 EU	1/5/150
4	12	10 mm ²	111408	BBP 4LN 10 M12 EU	1/5/100

- 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 3/4MU	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

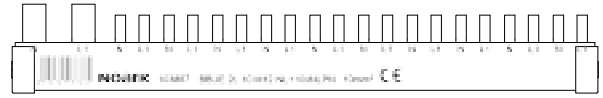


Number of phases	Length MU	Cross section	Article No.	Type	Packing
2	12	10 mm ²	103868	BBUE 2L 10 M12 NL+5xLN	1/25
4	12	10 mm ²	103824	BBUE 4L 10 M12 NLLL+4xLN	1/25
4	18	10 mm ²	103825	BBUE 4L 10 M18 NLLL+7xLN	1/25

Busbars BBU and BBUE

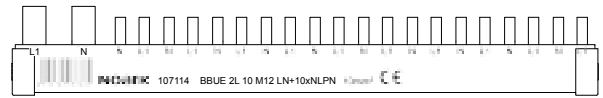
Special type shortened busbars

- 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 LLLL+8xNLPN	1/25

Busbars BBU, BBP and BBUE

End caps for BBU and BBP busbars

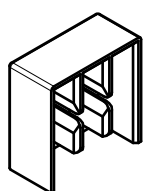
- End caps for 1 and 3-phase BBU and BBP busbars



Cross section	For number of phases	Article No.	Type	Packing
10 / 16 mm ²	1	101452	ECU 1L	1/1000
10 mm ²	2	113244	ECU 2LN 10	1/1000
16 mm ²	2	113245	ECU 2LN 16	1/1000
10 mm ²	3	113246	ECU 3L 10	1/1000
16 mm ²	3	101453	ECU 3L 16	1/1000
10 / 16 mm ²	4	113247	ECU 4LN	1/500

End caps for BBUE busbars


- End caps for BBUE busbars





For busbar	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

Protection covers for busbars

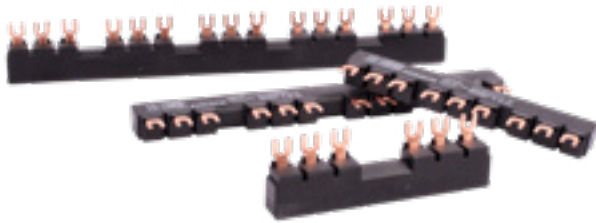
- Protection covers for unused connection points on BBUE busbars
- 5 pieces connected together, breakable



Cover type	Cross section	Colour	Article No.	Type	Packing
L-type	10/16 mm ²	yellow	105728	SPBB1	5/50
<ul style="list-style-type: none"> • suitable for 1-phase (103798, 103799, 103800, 103801, 103802, 103803, 103804, 103805, 103806), 2-phase (103864, 103865) and 4-phase (103816, 103817, 103818, 103819) busbars 					
Roof-type	10/16 mm ²	yellow	105729	SPBB2	5/50
<ul style="list-style-type: none"> • suitable for 3-phase (103808, 103809, 103810, 103811, 103812, 103813, 103814, 103815) busbars 					
L-type	30/35 mm ²	yellow	105730	SPBB3	5/50
<ul style="list-style-type: none"> • suitable for 30 and 35 mm² (103807, 103820, 103821) busbars 					

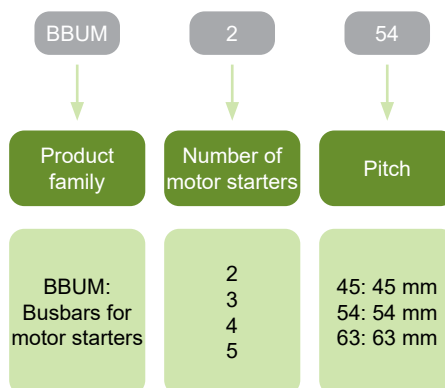
Busbars BBUM



- 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 mark



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	FBUM	1/10/200

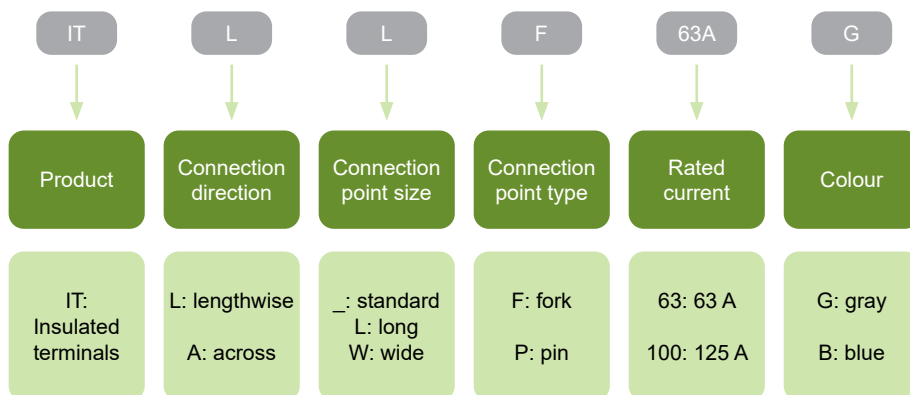
Insulated terminals IT



- Insulated terminals
- Tested according to EN 60439-1
- 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

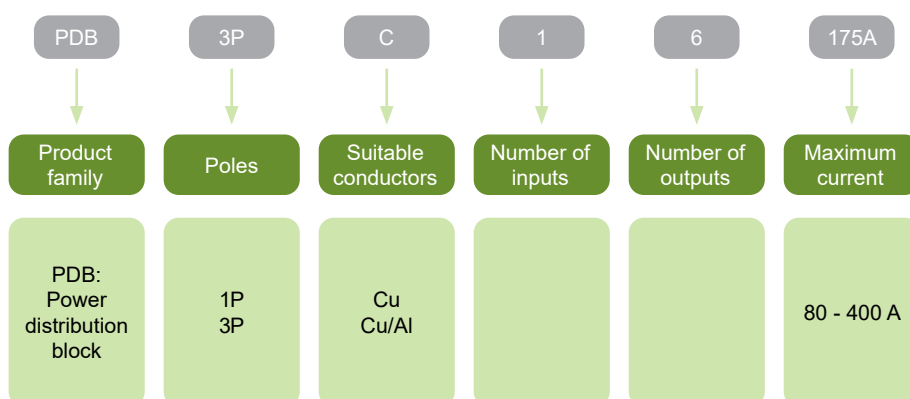


- Power distribution blocks
- Meets requirements of EN 60947-7-1
- Versions suitable for Cu or Cu/Al conductors
- Maximum current I_{max} up to 400 A
- Various combinations of outputs and inputs
- Mounting onto 35 mm DIN rail or onto panel

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

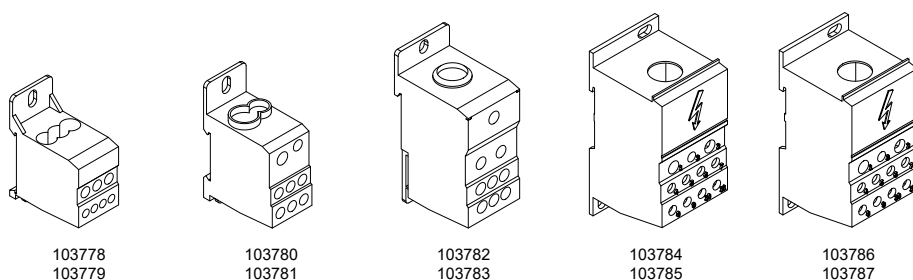


Power distribution blocks PDB

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

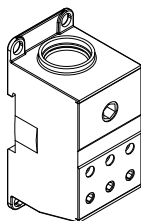


Power distribution blocks PDB

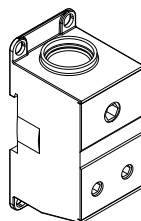
1-pole versions

- 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



103795



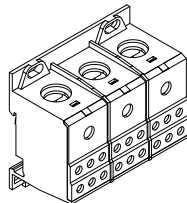
103796

Power distribution blocks PDB

3-pole versions

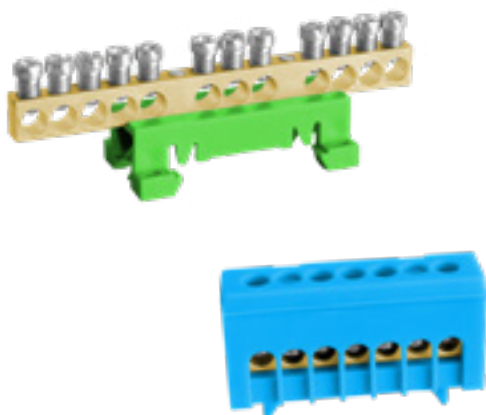
- Suitable for copper (Cu) or copper/aluminium (Cu/Al) conductors - Al connections are not maintenance free
- Mounting onto DIN-rail or onto panel
- Rigid cables assumed for maximum currents and maximum connection cable cross sections

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

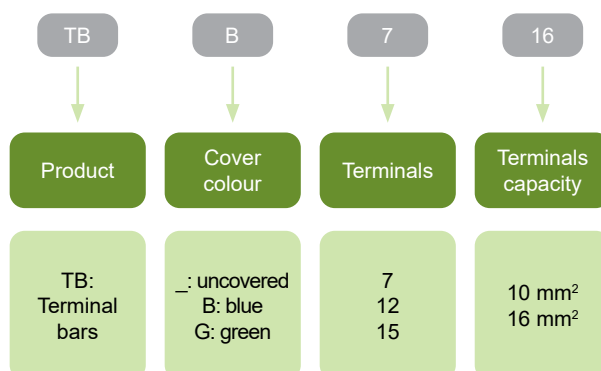


- Neutral and grounding terminal bars
- Tested according to EN 60998-1, -2-1
- Rated currents up to 63 A
- Rated isolation voltage 690 V AC
- 7, 12 and 15 terminal versions
- Terminals capacity 10 and 16 mm²
- Uncovered and covered coloured versions
- DIN-rail mounting

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
12	10 mm ²	blue	103856	TBB 12x10	1/10
12	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



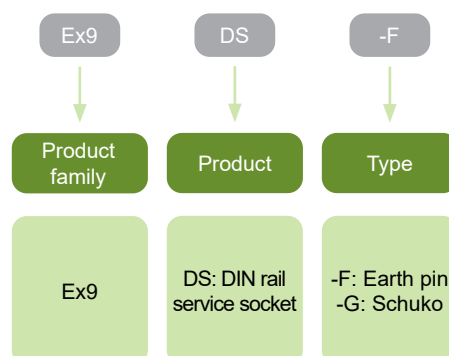
- Tested according to IEC/EN 60884-1
- Rated currents up to 16 A
- Rated operating voltage 250 V AC
- Rated insulation voltage 1000 V AC
- Terminals capacity 6 mm²
- DIN-rail mounting

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 service 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 Ex9DS

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

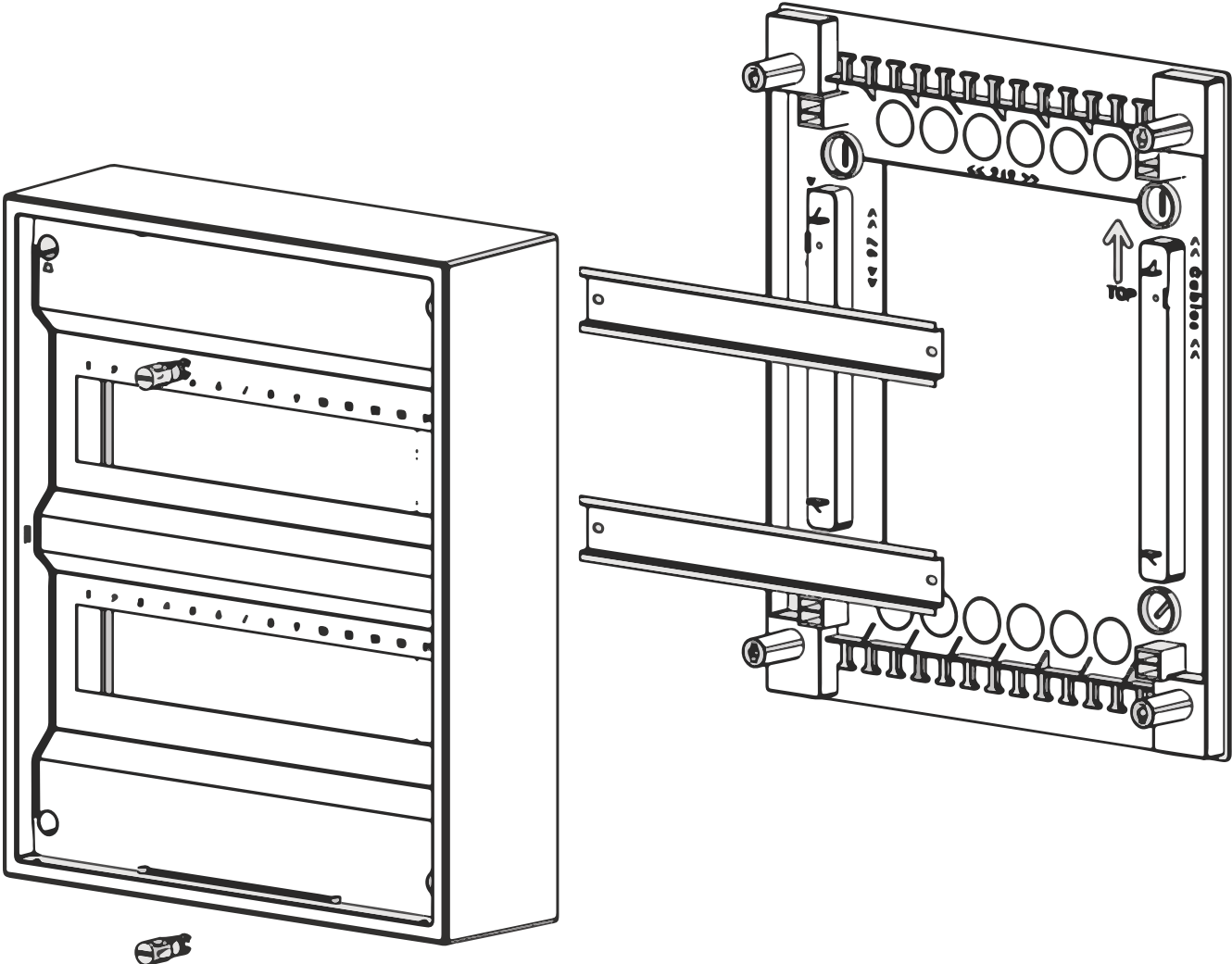
DIN rail service socket - Schuko standard

- 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 Data



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Technical Data PNS

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
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

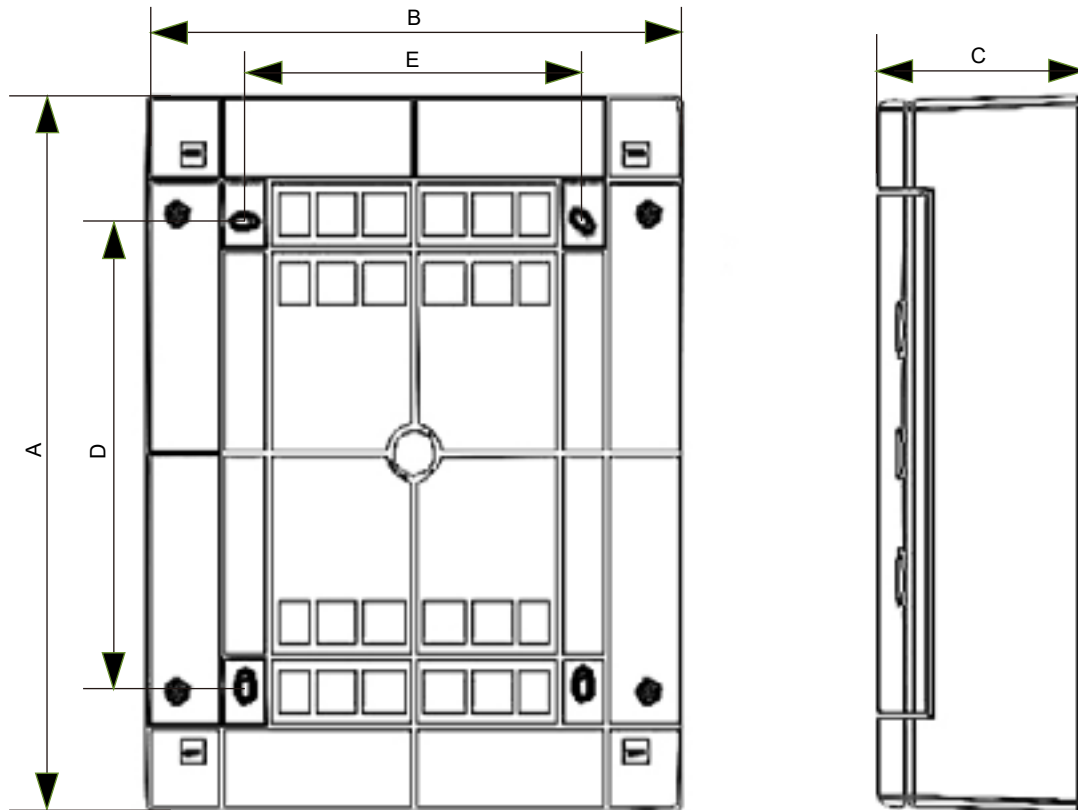
Mechanical parameters

Glow-wire test	650 °C
Mechanical impact resistance	IK08
Used plastics	Halogen-free
Body color	RAL9003
Operating temperature	-25°C – +60°C
Material	Acrylonitrile butadiene styrene

Technical Data PNS

Plastic consumer units, IP40, surface mounted

Dimensional drawings



Dimensions

Type	Dimensions [mm]				
	A	B	C	D	E
PNS 4T / PNS 4W	235	143	98	127	46
PNS 8T / PNS 8W	236	287	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 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

Technical Data PNS-SD

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 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

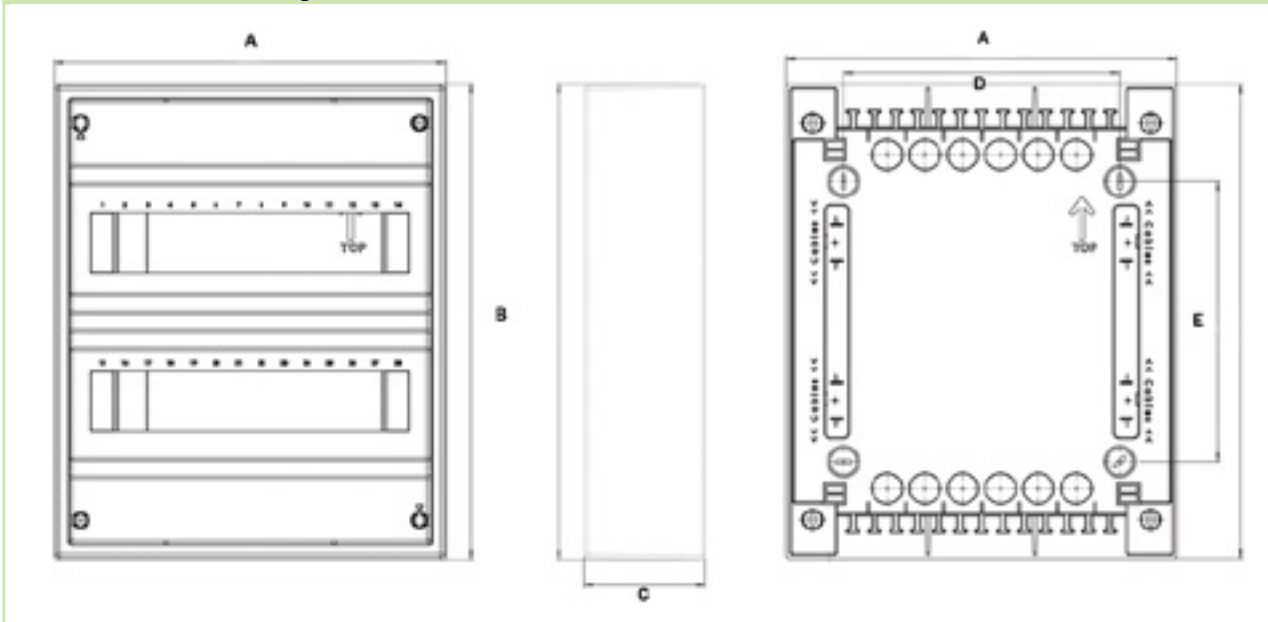
Mechanical parameters

Glow-wire test	650 °C
Mechanical impact resistance	IK07
Used plastics	ABS-Halogen-free

Technical Data PNS-SD

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

Technical Data PNF

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
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 24T / PNF 24W	30 W
PNF 2x18T / PNF 2x18W	30 W
PNF 36T / PNF 36W	30 W
PNF 3x18T / PNF 3x18W	35 W

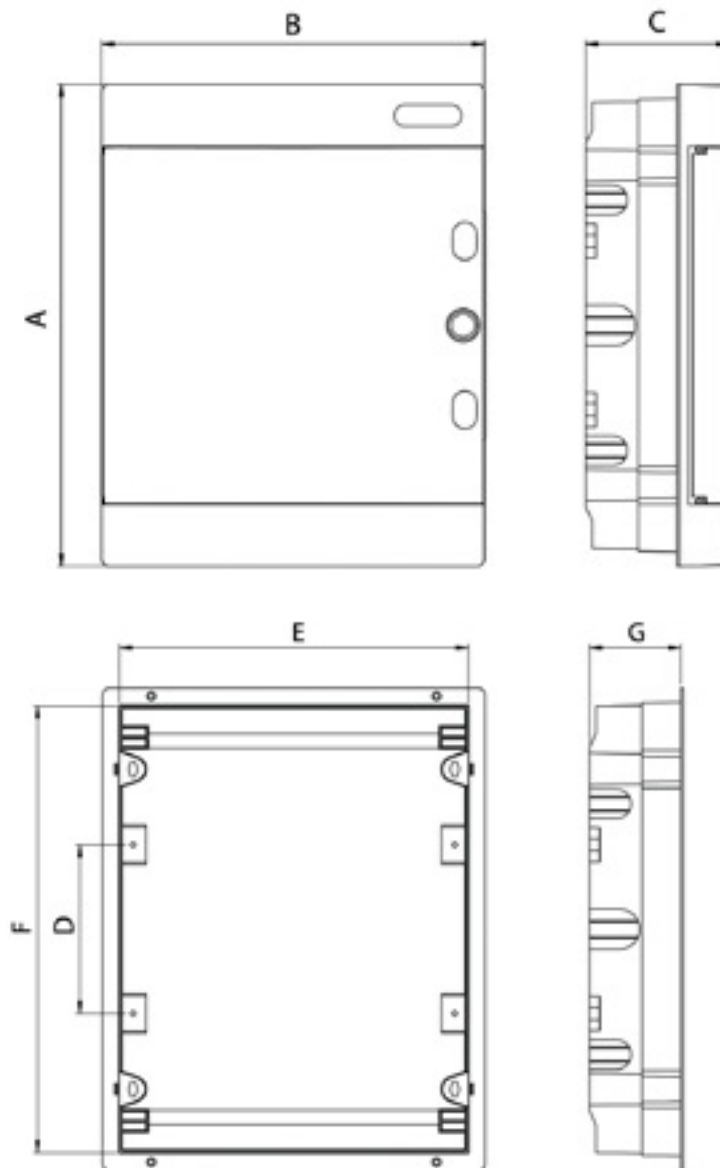
Mechanical parameters

Glow-wire test	650 °C
Mechanical impact resistance	IK08
Used plastics	Halogen-free
Body color	RAL9003
Operating temperature	-25°C – +60°C
Material	Acrylonitrile butadiene styrene

Technical Data PNF

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 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 3x18T / PNF 3x18W	522	392	106	125	382	502	68

Technical Data PNF-HW

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 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

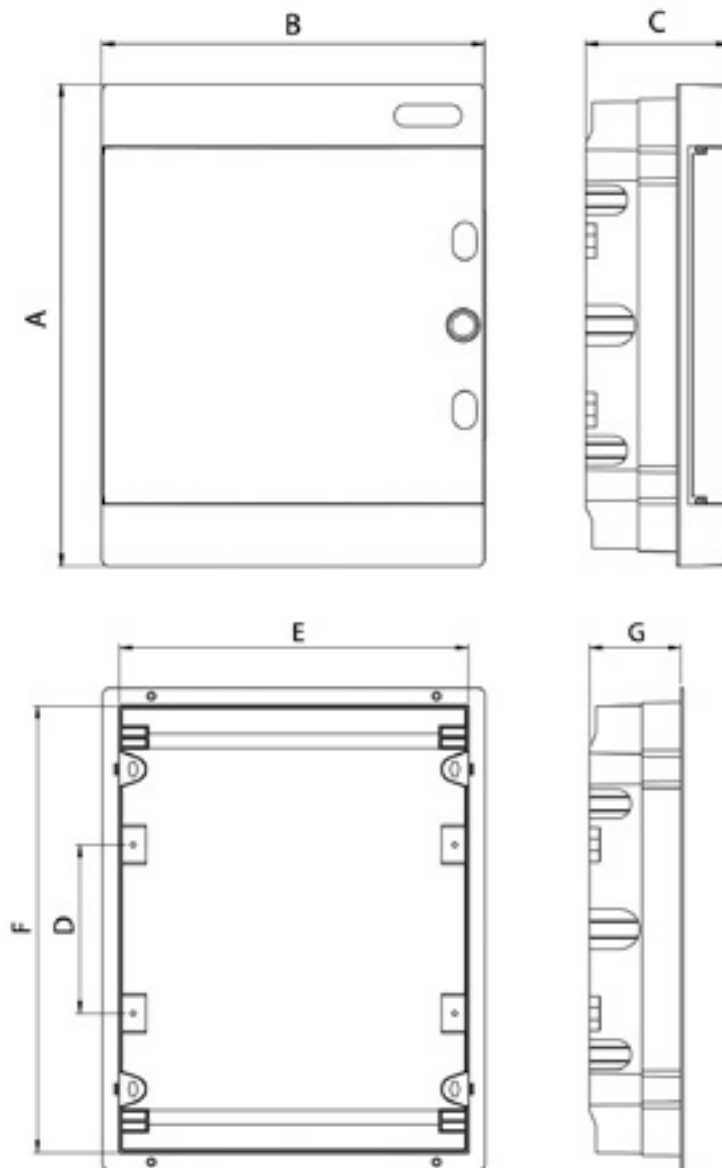
Mechanical parameters

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	

Technical Data PNF-HW

Plastic consumer units suitable for hollow-walls, 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

Technical Data PXS

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 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

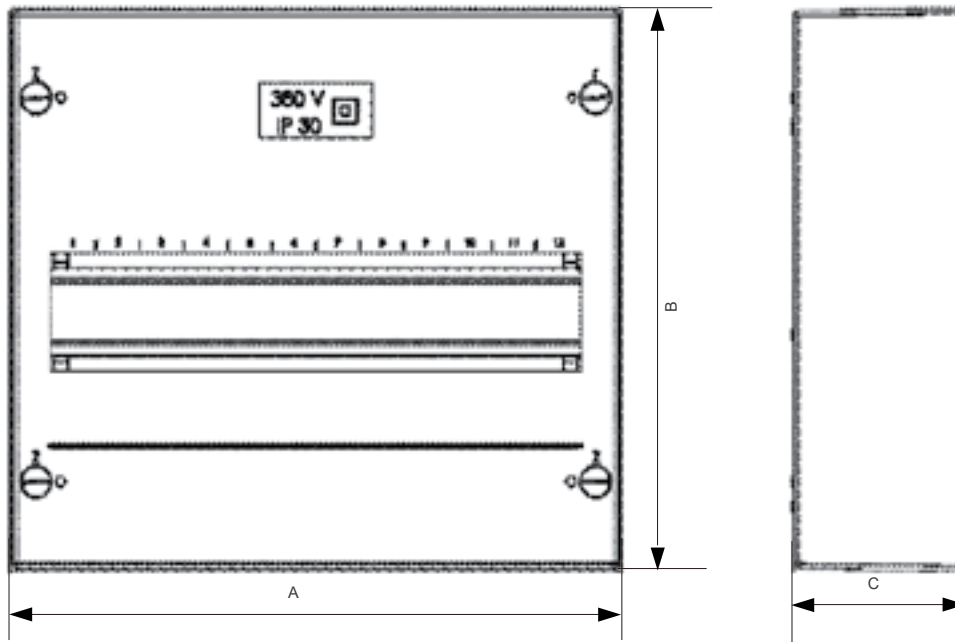
Mechanical parameters

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

Technical Data PXS

Plastic consumer units, IP30, surface mounted

Dimensional drawings



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

Technical Data PXF

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 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

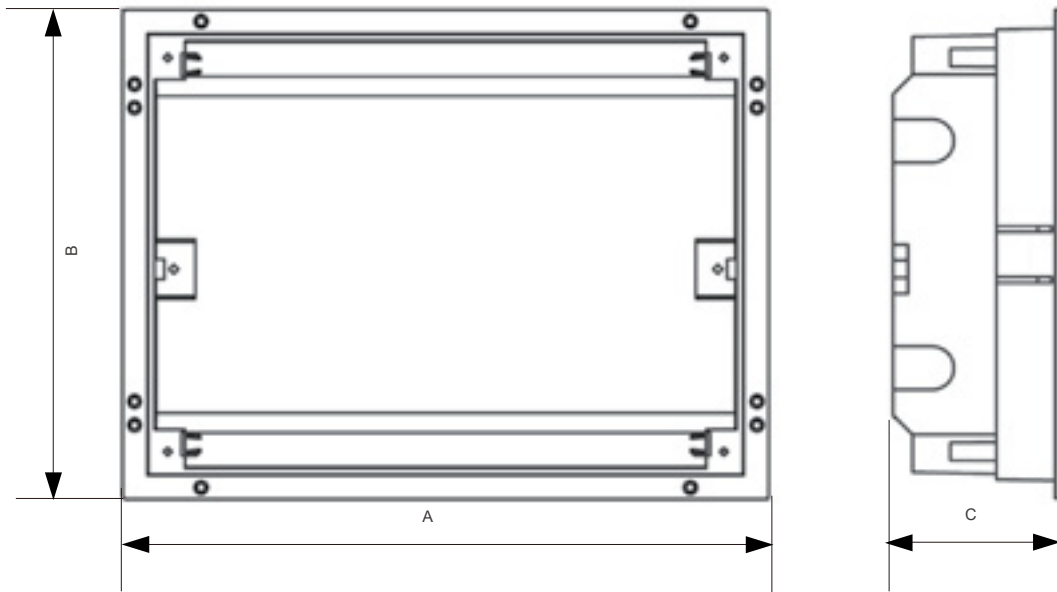
Mechanical parameters

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

Technical Data PXF

Plastic consumer units, IP40, flush mounted

Dimensional drawings



Dimensions

Type	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

Technical Data PMF

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	IK06
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

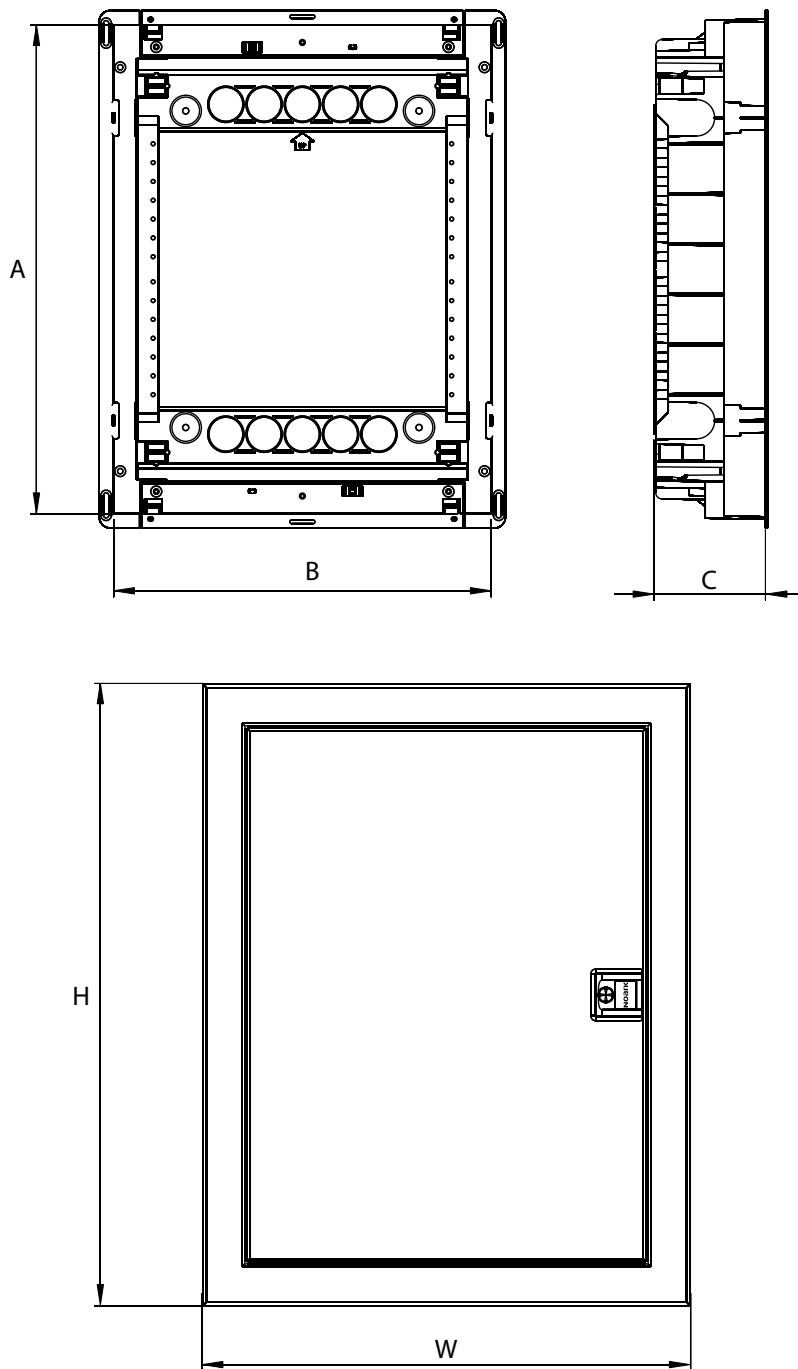
Mechanical parameters

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	

Technical Data PMF

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

Ordering information p. 29

Technical Data PMF-MM

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	IK06
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

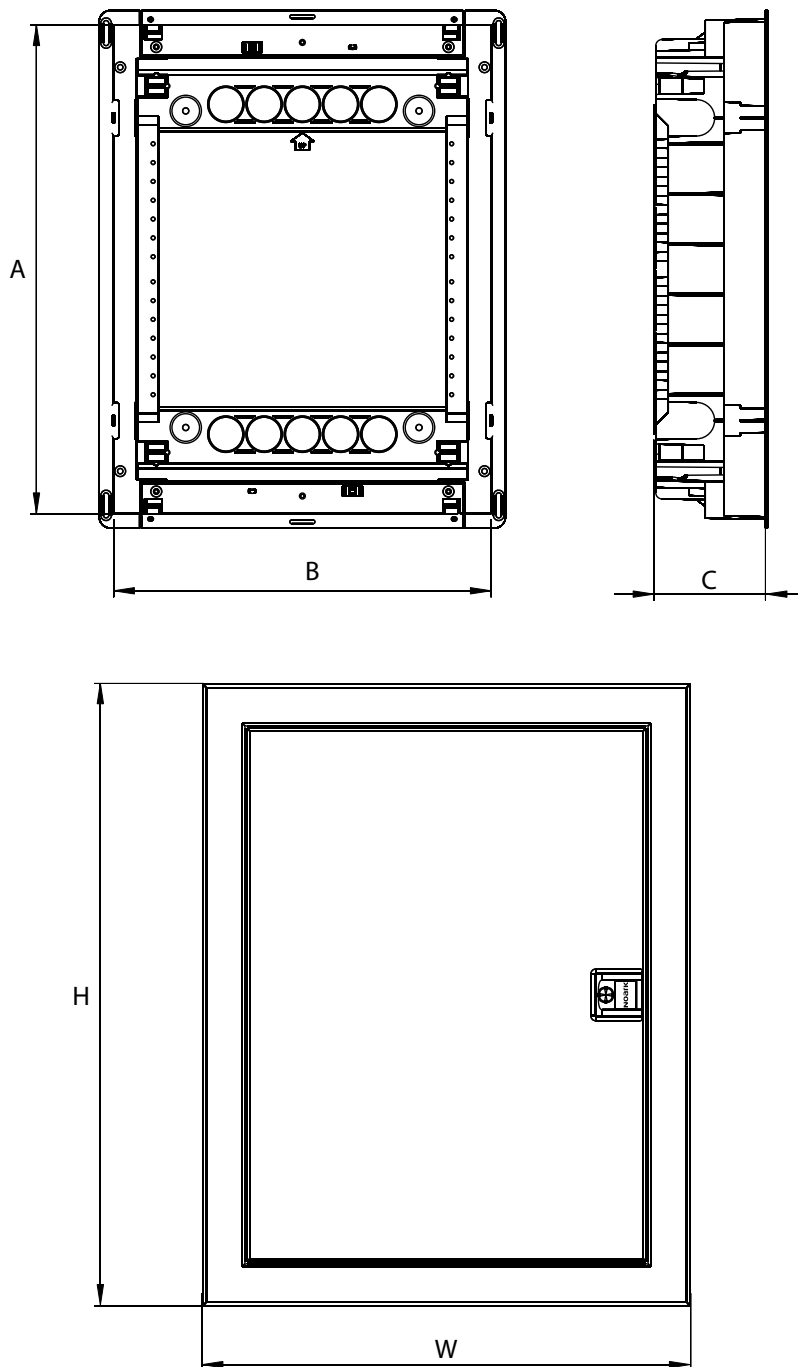
Mechanical parameters

1.	Enclosure wall box	
2.	Mounting plates	
3.	Front metal or plastic frame	
4.	Metal perforated door or plastic door	

Technical Data PMF-MM

Flush-mounted multimedia consumer units

Dimensional drawings



Dimensions

Type	Dimensions [mm]					Weight [kg]	
	A	B	C	H	W	Metal door	Plastic door
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	-

Technical Data PMF-C

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	IK06
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

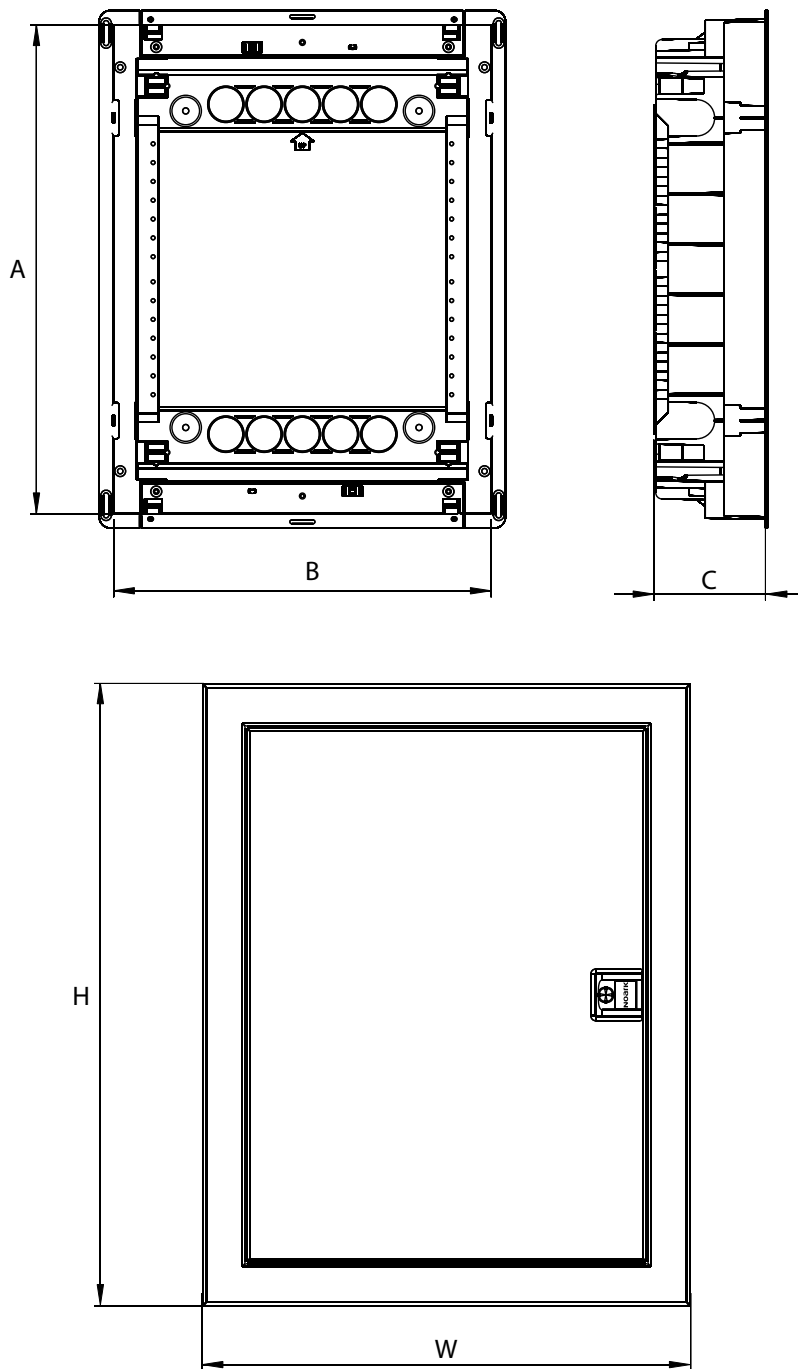
Mechanical parameters

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

Technical Data PMF-C

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

Dimensional drawings



Dimensions

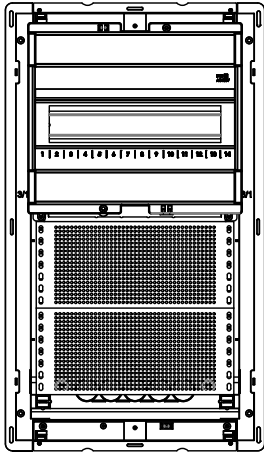
Type	Dimensions [mm]					Weight [kg]
	A	B	C	H	W	
PMF-C 36	549	306	92	592	346	3.0
PMF-C 48	673	306	92	717	346	3.5
PMF-C 60	799	306	92	842	346	4.5

Technical Data PMF-C

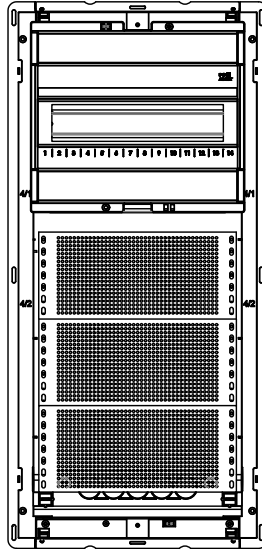
Flush-mounted plastic consumer units with sheet-steel perforated doors

Internal structure of enclosures

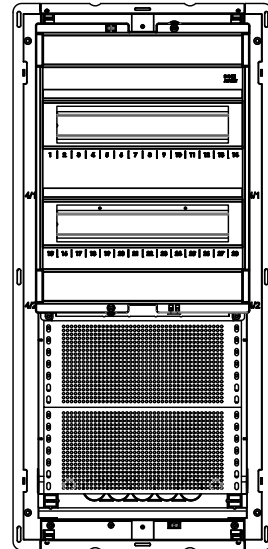
PMF-C 36-1



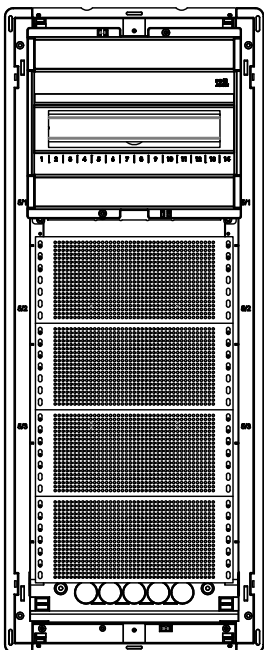
PMF-C 48-1



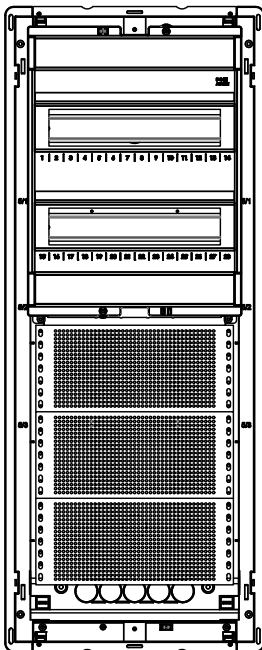
PMF-C 48-2



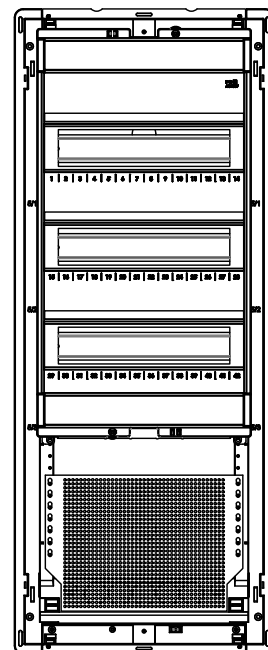
PMF-C 60-1



PMF-C 60-2



PMF-C 60-3



Technical Data PHS

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

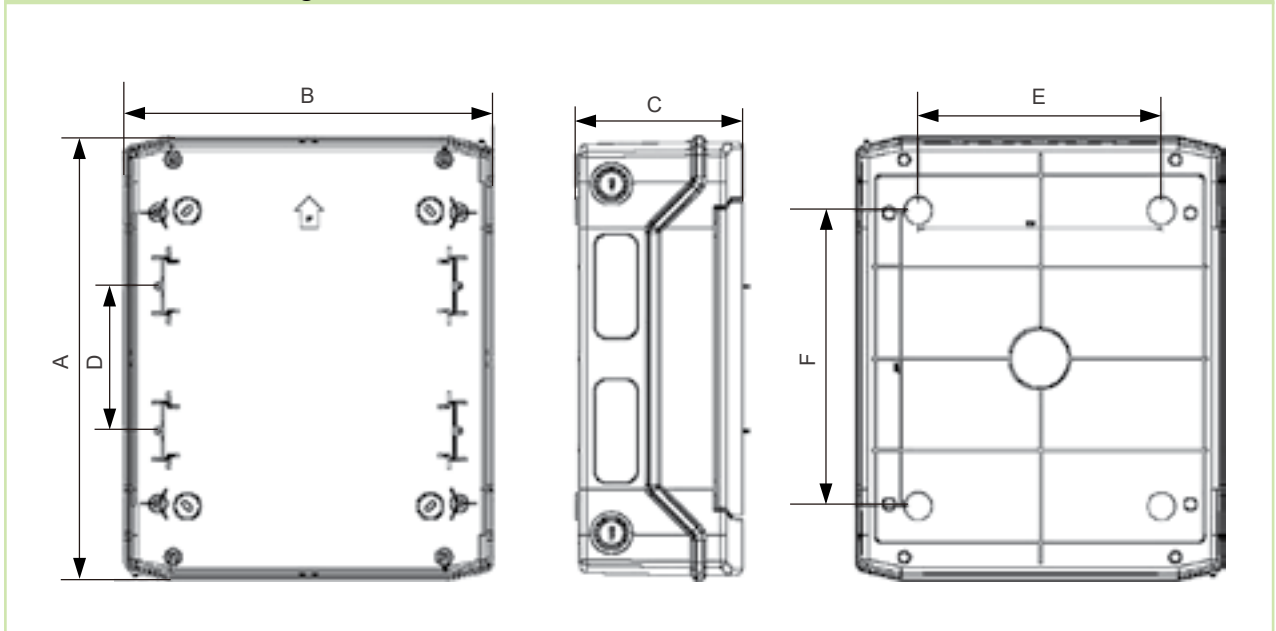
Mechanical parameters

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 acrylic styrene

Technical Data PHS

Plastic consumer units, IP65, surface mounted

Dimensional drawings



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	508	319	144	125	210	380
PHS 48T	664	319	144	125	210	505

Technical Data EMF

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 - enclosure, door, front plates, separators, etc. - mounting plates	<p> painted sheet-steel thickness 1 mm </p> <p> thickness 2 mm </p>
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

Technical Data EMF

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

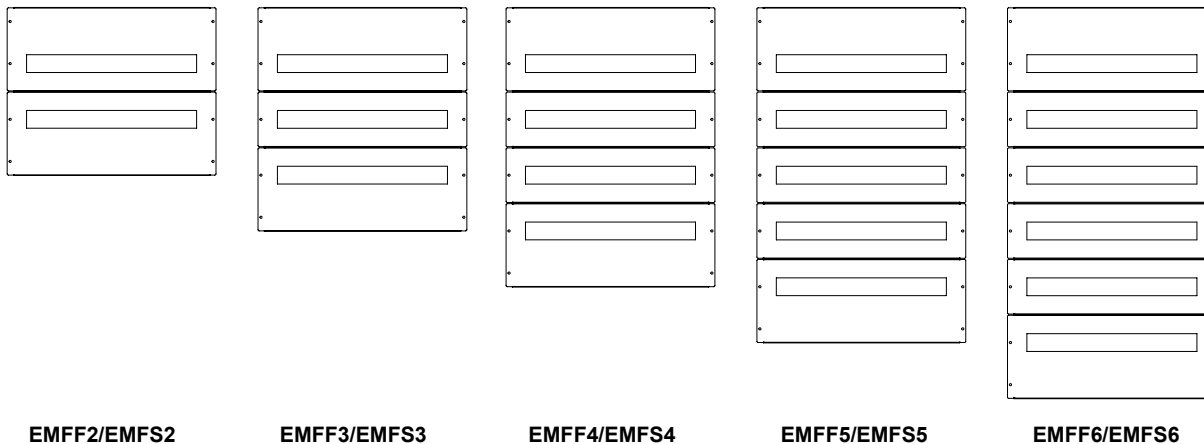
Total weight of complete enclosure (including doors, front plates, mounting frame, etc.) without devices

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

Technical Data EMF

Metal (sheet-steel) flat enclosures

Front plates in the scope of delivery



EMFF2/EMFS2

EMFF3/EMFS3

EMFF4/EMFS4

EMFF5/EMFS5

EMFF6/EMFS6

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)

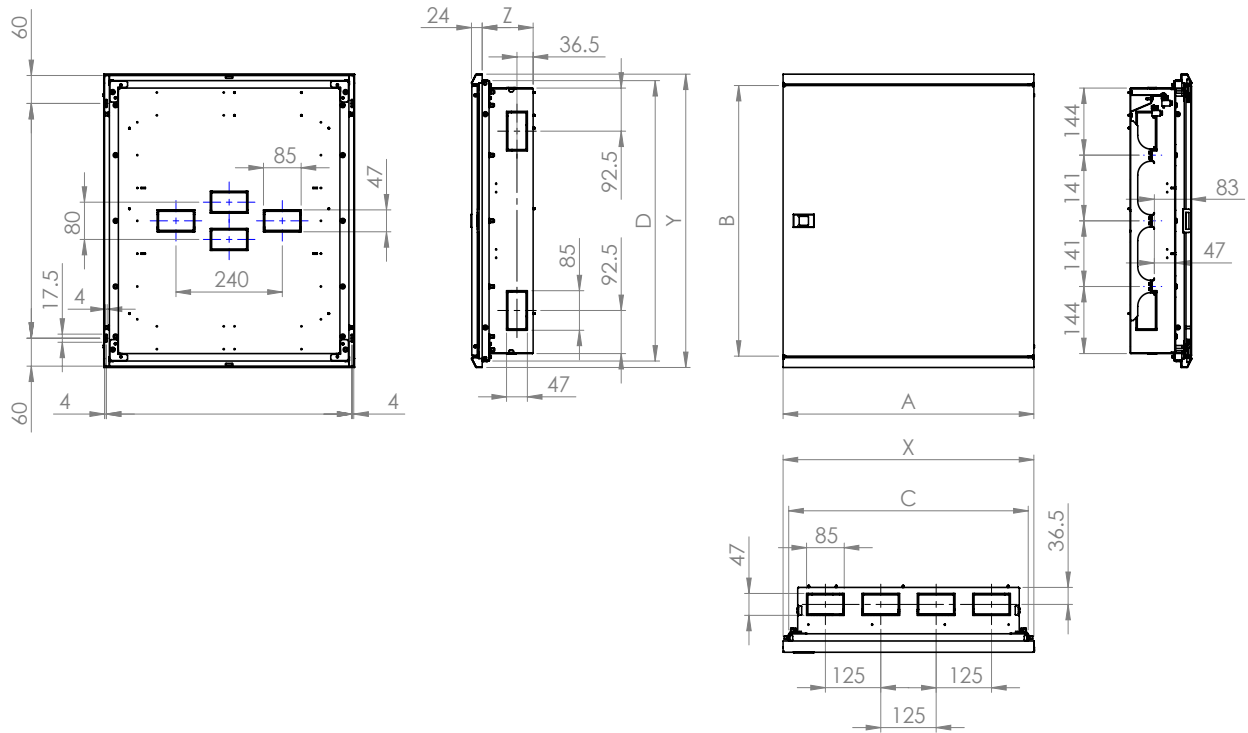
Pre-cut openings for conductors or cable grommets - surface-mounted versions

all EMFS variants	4x 47x55.6 mm (back side, center) + 4x 47x85 mm (back size, corners) + 14x round Ø20 mm (top)
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Technical Data EMF

Metal (sheet-steel) flat enclosures

Dimensional drawings - flush-mounted versions



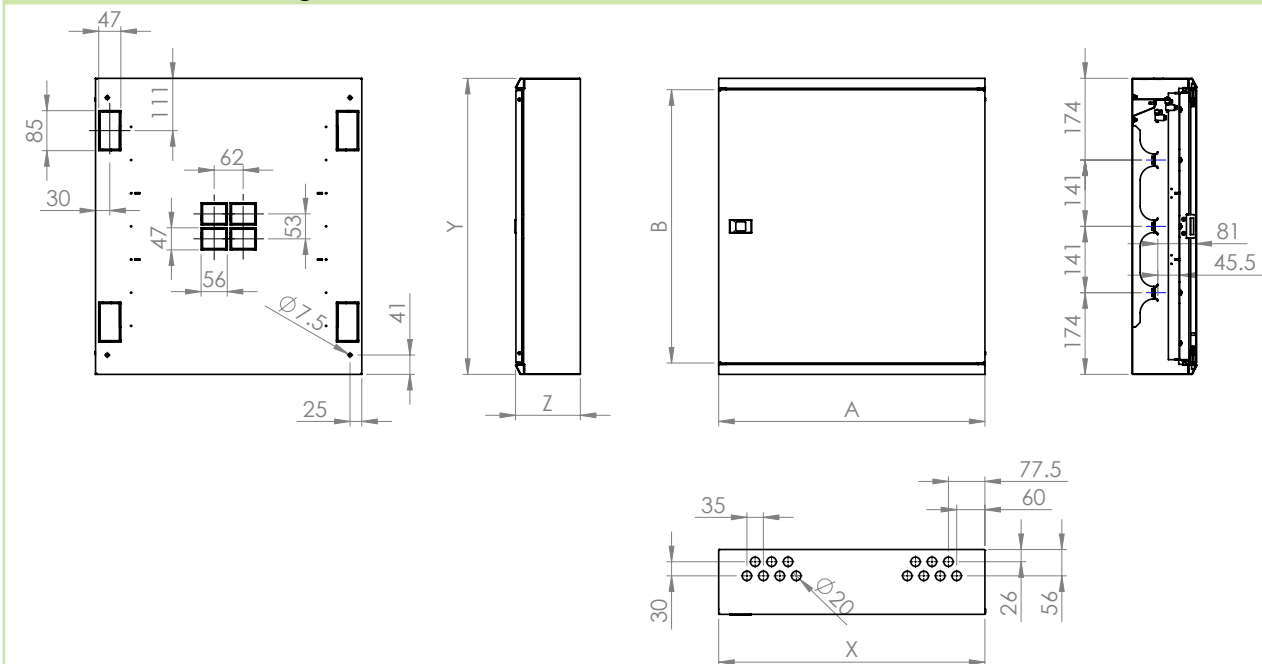
Dimensions

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

Technical Data EMF

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

Technical Data MHS

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

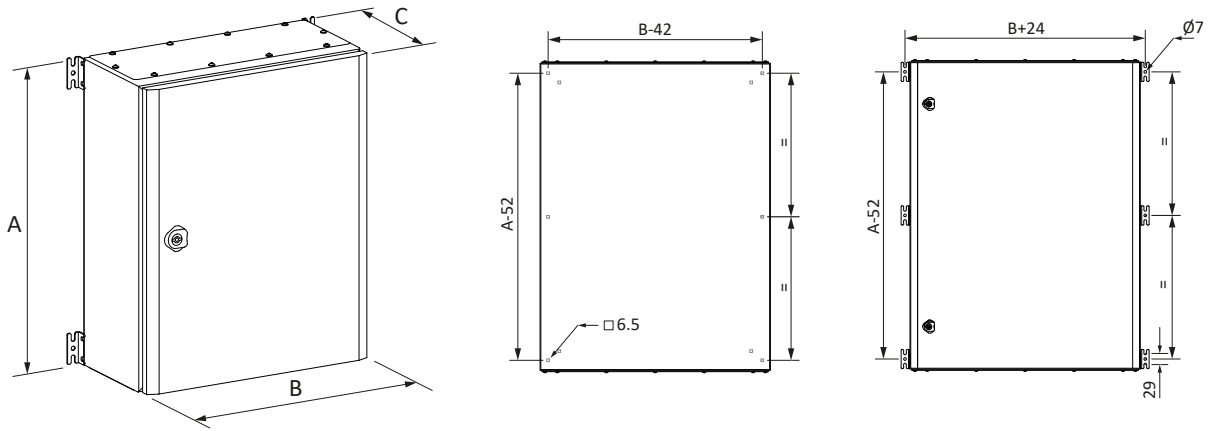
Mechanical parameters

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

Technical Data MHS

IP66 Metal enclosures MHS

Dimensional drawings



Dimensions

Type	Dimensions [mm]			Door	Lock	Hinge	Wall bracket	Glazed door	Cover plate*	Rain canopy	Power dissipation [W]	Weight [kg]
	A	B	C									
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 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	600	300	1	2	4	6	•	-	•	105	59.0
MHS 120 100 30	1200	1000	300	2	1	4+4	6	-	-	•	140	70.0

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

Technical Data BBU, BBP and BBUE

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 or top side, the order of the devices is quoted from left

Electrical parameters

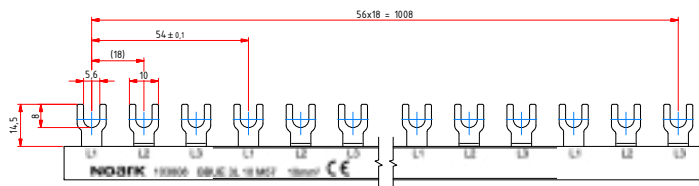
Tested according to	EN 60439-1
Rated operation voltage U_e	230 / 400 V AC
Rated current I_e	63 A (10 mm ²), 80 A (16 mm ²), 125 A (30/35 mm ²)
Rated frequency f	50 Hz
Rated impulse withstand voltage U_{imp}	4 kV (BBU, BBP) 8 kV (BBUE 35), 6 kV (BBUE)

Mechanical parameters

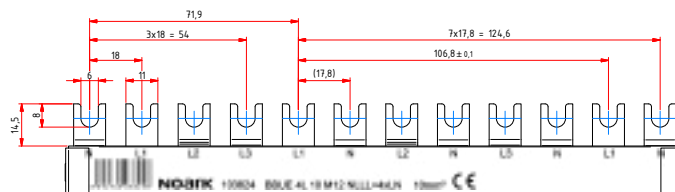
Busbar cross section	10 / 16 / 30 / 35 mm ²
Connection point type	Fork or Pin
Connection point step	8.7 mm / 13.5 mm / 18 mm / 27 mm

Dimensions

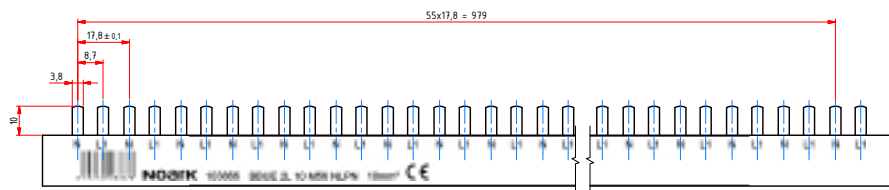
Fork types



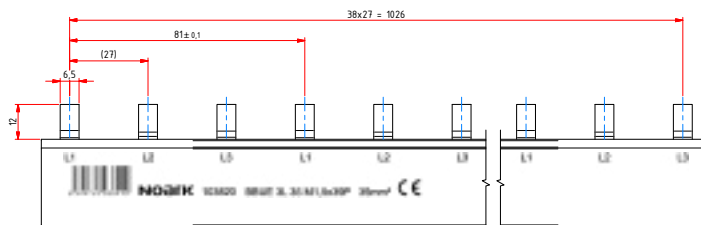
4LN fork types



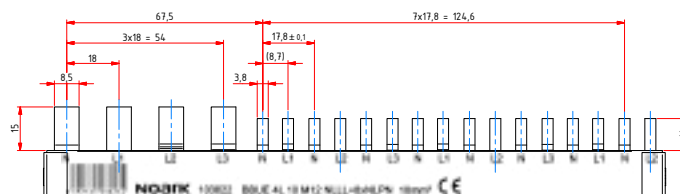
Pin types



35 mm² pin types



Device combination types

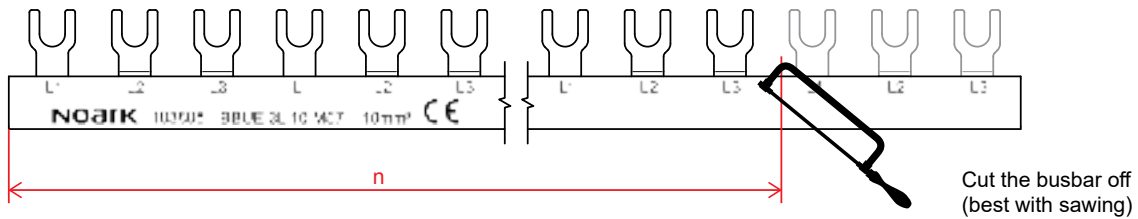


Technical Data BBU, BBP and BBUE

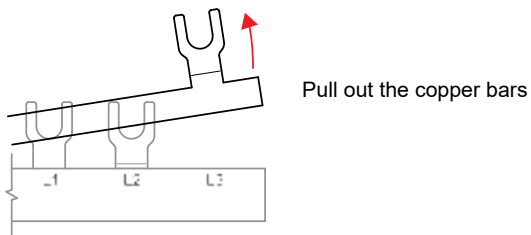
Busbars BBU, BBP and BBUE

Shortening

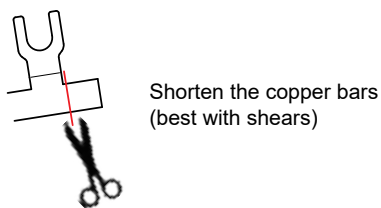
1)



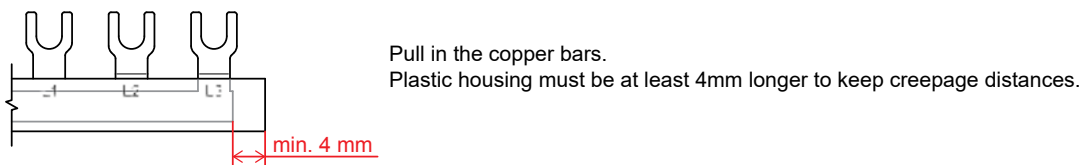
2)



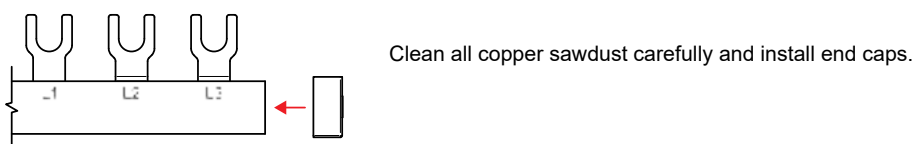
3)



4)



5)



Technical Data BBUM

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

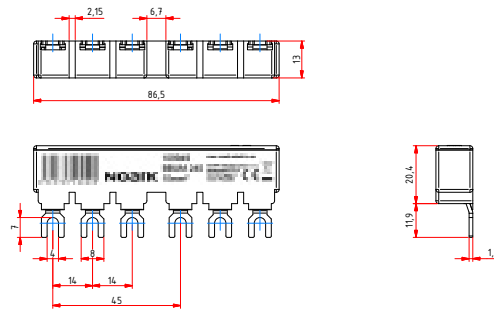
Tested according to	EN 60947-1
Rated operation voltage U_e	690 V AC
Rated current I_e	63 A
Rated frequency f	50 Hz
Rated impulse withstand voltage U_{imp}	9,5 kV

Mechanical parameters

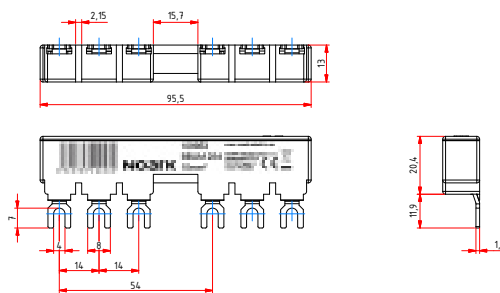
Busbar cross section	10 mm ²
Connection point type	Fork
Connection point step	45 mm / 54 mm / 63 mm
Number of connected devices	2 / 3 / 4 / 5

Dimensions

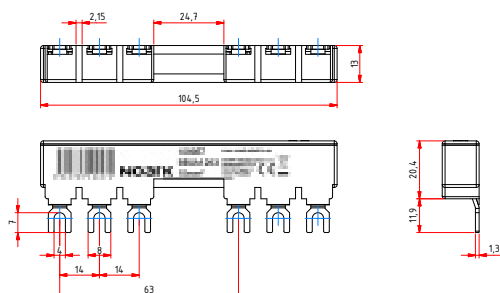
Pitch 45 mm



Pitch 54 mm



Pitch 63 mm

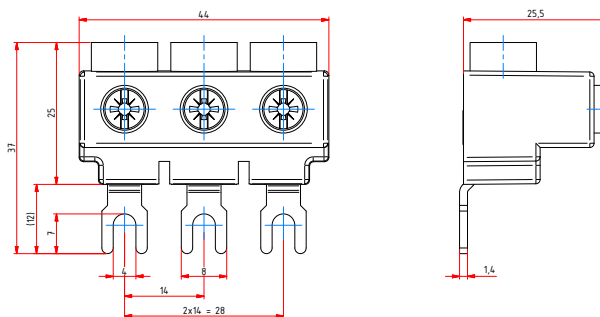


Technical Data BBUM

Busbars BBUM

Dimensions

Feeder terminal



Shortening



DO NOT CUT THE BUSBARS

Technical Data IT

Insulated terminals IT

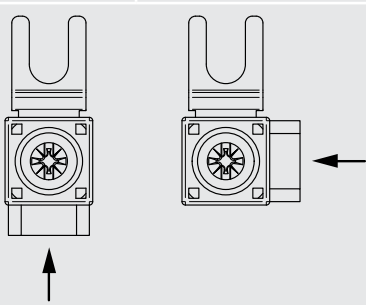
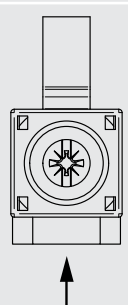
General parameters

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 60439-1		
Nominal rated current I_n	63 A	63 A	125 A
Maximum current I_{max}	80 A	80 A	125 A
Max. rated operational voltage U_n	690 V AC		
Rated frequency f	50 Hz		

Mechanical parameters

	IT.. F 63A .	IT.. P 63A .	IT. P 100A .
Connection point 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	 <p>lengthwise or across</p>		 <p>lengthwise</p>
Suitable for conductors type	Al / Cu		
Terminal colour	gray / blue		

Technical Data PDB

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 mm ²	35 mm ² + 16 mm ²	50 mm ²	95 mm ²	150 mm ²
Input terminals capacity for I_n (rigid cable)	1x 2.5-16 mm ²	1x 10-35 mm ² + 1x 2.5-16 mm ²	1x 10-70 mm ²	1x 35-120 mm ²	1x 95-185 mm ²
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 mm ² + 6 mm ²	16 mm ²	16 mm ²	25 mm ² + 16 mm ² + 10 mm ²	25 mm ² + 16 mm ² + 10 mm ²
Output terminals capacity for I_n (rigid cables)	2x 2.5-16 mm ² + 4x 2.5-6 mm ²	6x 2.5-16 mm ²	6x 2.5-16 mm ²	2x 6-35 mm ² + 5x 1.5-16 mm ² + 4x 1.5-10 mm ²	2x 6-35 mm ² + 5x 1.5-16 mm ² + 4x 1.5-10 mm ²
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

Technical Data PDB

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 mm ²	35 mm ² + 16 mm ²	50 mm ²	95 mm ²	150 mm ²
Input terminals capacity for I_n (rigid cable)	1x 2.5-16 mm ²	1x 10-35 mm ² + 1x 2.5-16 mm ²	1x 10-70 mm ²	1x 35-120 mm ²	1x 95-185 mm ²
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 mm ² + 6 mm ²	16 mm ²	16 mm ²	25 mm ² + 16 mm ² + 10 mm ²	25 mm ² + 16 mm ² + 10 mm ²
Output terminals capacity for I_n (rigid cables)	2x 2.5-16 mm ² + 4x 2.5-6 mm ²	6x 2.5-16 mm ²	6x 2.5-16 mm ²	2x 6-35 mm ² + 5x 1.5-16 mm ² + 4x 1.5-10 mm ²	2x 6-35 mm ² + 5x 1.5-16 mm ² + 4x 1.5-10 mm ²
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

Technical Data PDB

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

Technical Data PDB

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	103788	-
Cu/Al conductors	-	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

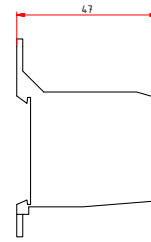
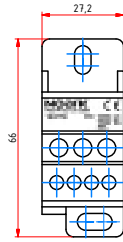
Height	80 mm	80 mm
Width	71.5 mm	71.5 mm
Depth	42.5 mm	42.5 mm
Mounting	Onto 35 mm device DIN rail or onto panel	
Rated cross section of input terminal connection conductors	50 mm ²	50 mm ²
Input terminals capacity for I_n per pole (rigid cable)	1x 16-70 mm ²	1x 16-70 mm ²
Fastening torque of input terminals	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

Technical Data PDB

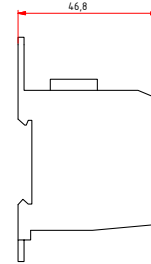
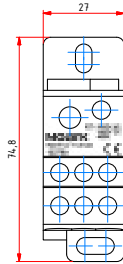
Power distribution blocks PDB

Dimensional drawings

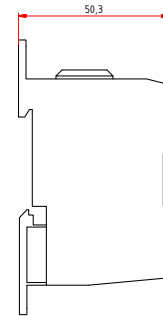
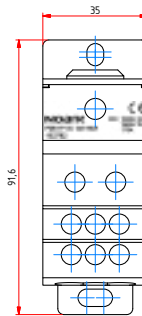
103778 - PDB 1P CU 1x4+2 80A
103779 - PDB 1P CU/AL 1x4+2 80/63A



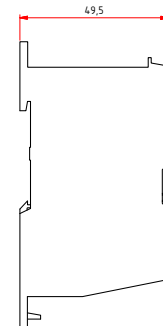
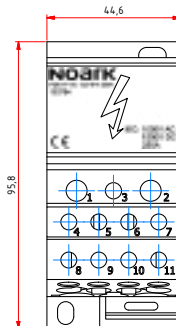
103780 - PDB 1P CU 1+1x6 125A
103781 - PDB 1P CU/AL 1+1x6 125/100A



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

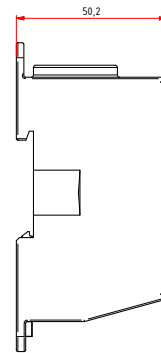
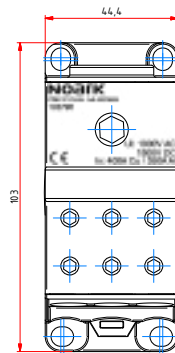


Technical Data PDB

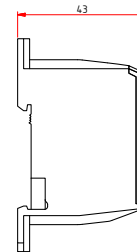
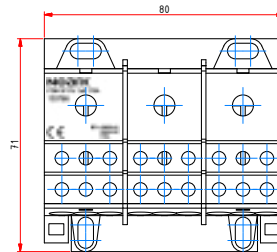
Power distribution blocks PDB

Dimensions

- 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



Technical Data TB

Neutral and earthing terminal bars

General parameters

Neutral and grounding terminal bars for distribution enclosures

7, 12 and 15 terminal versions

DIN-rail mounting

Electrical parameters

	TBB / TBG <i>ix</i> 16	TBB / TBG <i>ix</i> 10	TB <i>ix</i> 10
Tested according to		EN 60998-1 EN 60998-2-1	
Rated current I_n		63 A	
Rated isolation voltage U_i		690 V AC	
Rated frequency f		50 Hz	

Mechanical parameters

	TBB / TBG <i>ix</i> 16	TBB / TBG <i>ix</i> 10	TB <i>ix</i> 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	-

Technical Data Ex9DS

DIN rail service socket

General parameters

Earth pin and Schuko standard
DIN-rail mounting

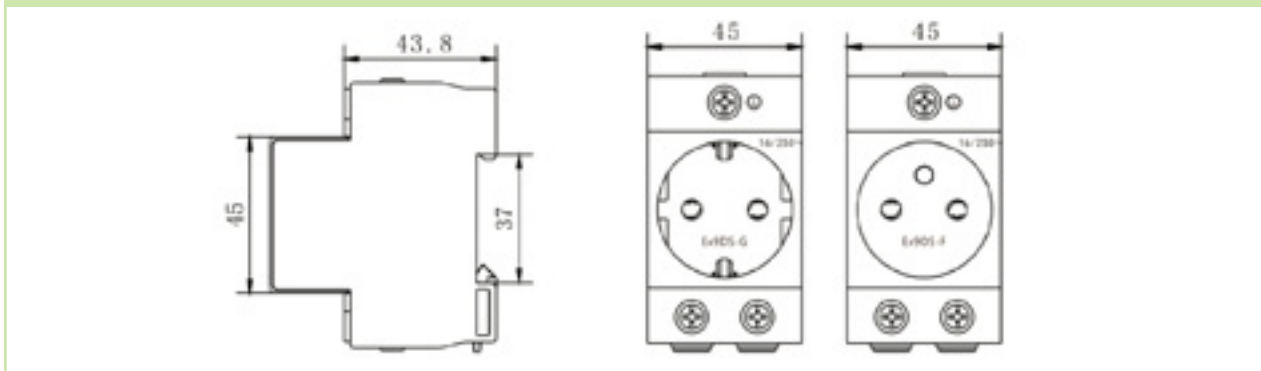
Electrical parameters

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



Index

Type	Ordering info	Technical data	Type	Ordering info	Technical data
B CC45	8		LK MHS	70	
BBP	75		LK PH M	47	
BBU	74	125	LK PM M	11	
BBUE	76	123	LK PN M	7	
BBUM	82		MF PDP	61	
CB MHS	70		MF PNF	16	
CGQS	47		MF PNF12	39	
CP MHS	69		MF PXF	26	
DR PHS	46		MF TL	62	
DR PMF	30		MHS	66	122
DR PMF-MM	38		MP MHS	68	
DR PNS	7		MP PM	35	
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DR PXF	25		PHS	46	114
DTH	8		PM MHS	69	
EC MHS	67		PMF	30	107
ECU	80	124	PMF-C	38	111
ECUE	80	124	PMF-MM	34	109
EFMS SMM	58		PNF	14	99
EMF	54	116	PNF-HW	18	101
EMF CFR	57		PNS	6	95
EMF DR	55		PNS-SD	10	97
EMF FP	56		PWS PMF-C	40	
EMF FPB	56		PXF	24	105
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EMFF MH	58		SMM IP65S	47	
EMFF SMM	58		SMM PMF	31	
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ITLW	84				

Notes

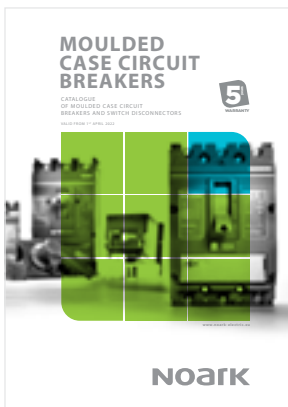


Catalogues and assortment overview



INSTALLATION DEVICES

- Miniature Circuit Breakers
- Fuse Holders and Disconnectors
- Isolators
- Residual Current Devices
- Energy Meters
- Motor Protective Circuit Breakers
- Accessories for Installation Devices
- Surge Protection Device
- Installation Relays and Contactors
- Switches and Signal Lamps
- Timers and Light Intensity Switches
- Other Installation Devices



MOULDED CASE CIRCUIT BREAKERS

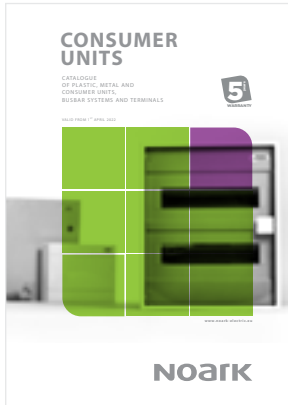
- AC Thermomagnetic Moulded Case Circuit Breakers Ex9M
- AC Electronic Moulded Case Circuit Breakers Ex9M SU20L (DIP switches version)
- AC Electronic Moulded Case Circuit Breakers Ex9M SU20S (LCD version)
- AC MCCB Switch Disconnectors Ex9MSD
- DC Thermomagnetic Moulded Case Circuit Breakers Ex9M
- DC MCCB Switch Disconnectors Ex9MSD
- Accessories for MCCBs



INDUSTRIAL DEVICES

- Contactors and Relays
- Motor Protective Circuit Breakers
- Overload Relays
- Accessories
- Panel Mounted Devices

Catalogues and assortment overview



CONSUMER UNITS

- Plastic Consumer Units
- Plastic Consumer Units with Sheet Steel Door
- Plastic Consumer Units for Outdoor Use
- Metal Flat Enclosures
- Metal Enclosures with Mounting Plates
- Interconnection Systems



PHOTOVOLTAIC COMPONENTS AND SOLUTIONS

- Miniature Circuit Breakers
- Fuse Disconnectors
- Isolators
- Surge Protection Devices
- Moulded Case Circuit Breakers and Switch Disconnectors
- EV chargers



AIR CIRCUIT BREAKERS

- Digital Tripping Units
- Air Circuit Breakers
- Air Switch Disconnectors
- Accessories



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