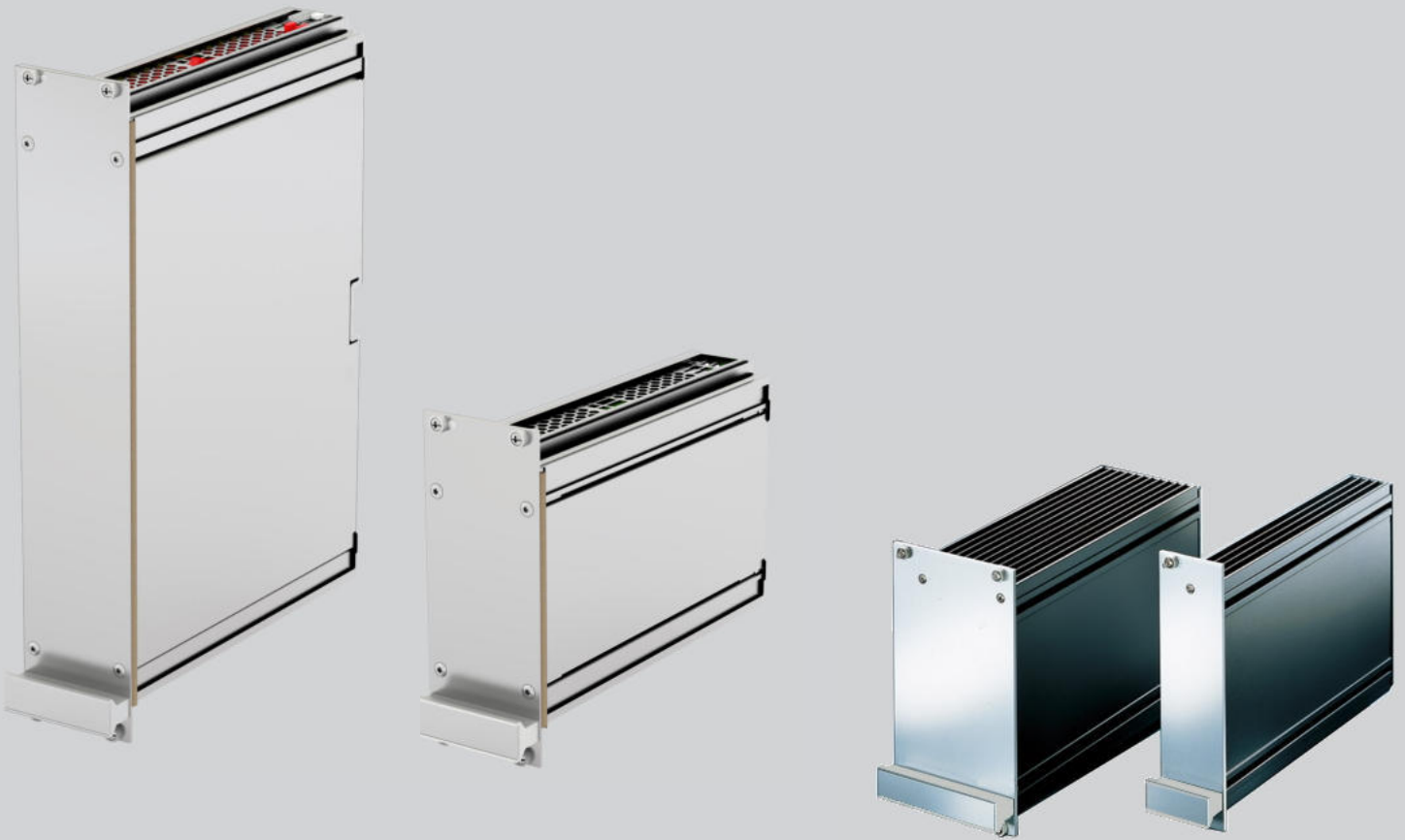




**CONNECT AND PROTECT**

# Frame Type Plug-in Units

04/2024

# Frame type plug-in units – Kits

## OVERVIEW

### MAIN KATALOG

Cabinets ..... 1

Wall mounted cases ..... 2

Accessories for cabinets and wall mounted cases .. 3

Climate control .. 4

Electronics cases ..... 5

Subracks/ 19" chassis ..... 6

Front panels, plug-in units .... 7

Systems ..... 8

Power supply units ..... 9

Backplanes .... 10

Connectors, front panel component system ..... 11

Appendix ..... 12



130961416 130962301 130962310 130961413

130962236 108230748 130961515

19" modules are mechanical components that serve to carry one or more circuit boards. The boards housed in a module are thus combined into a larger electronic function unit that is self-contained and testable. Mechanical dimensions conform to IEC 60297-3-101 / IEEE 1101.1/11 standards, i.e. the so-called 19" standard. These function units are integrated into the subrack or case; their dimensions likewise form a component of IEC 60297-3-101 / IEEE 1101.1/11.

The dimension obligations of the standard give only little freedom for individual design of frame type plug-in units. The aim is therefore to make optimum use of what freedoms regarding dimensions it does allow, e.g.

- to maximise the internal space of a plug-in unit and thus create maximum space for electronic components, or
- to ensure optimal EMC shielding with minimum loss of mounting space to the shielding components

### Standards

- IEC 60297-3-101 / IEEE 1101.1/11

| Width                                          | 5 HP |   | 6 HP |   | 7 HP |   | 8 HP |   | 10 HP |   | 12 HP |   | 14 HP |   | 21 HP |   | 28 HP |   | 42 HP |   |
|------------------------------------------------|------|---|------|---|------|---|------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|
| Height in U                                    | 3    | 6 | 3    | 6 | 3    | 6 | 3    | 6 | 3     | 6 | 3     | 6 | 3     | 6 | 3     | 6 | 3     | 6 | 3     | 6 |
| Frame-type plug-in units PRO                   | -    | - | -    | - | -    | - | x    | x | x     | x | x     | x | x     | x | x     | x | x     | x | x     | x |
| Frame type plug-in units PRO with cooling fins | -    | - | -    | - | -    | - | -    | - | -     | - | x     | x | x     | x | x     | x | -     | - | -     | - |
| Frame-type plug-in units PRO with hood         | x    | x | x    | x | x    | x | -    | - | x     | x | x     | x | x     | x | -     | - | -     | - | -     | - |
| HF frame-type plug-in units                    | -    | - | -    | - | x    | - | -    | - | x     | - | x     | - | x     | - | x     | - | x     | - | -     | - |

# Frame type plug-in units – Kits

## OVERVIEW

### FRAME-TYPE PLUG-IN UNITS TO HOUSE PRINTED BOARDS

- For PCBs in euroboard format
- Kits or configuration from single components
- Front panels: unshielded or EMC shielded



#### FRAME-TYPE PLUG-IN UNITS PRO

- Kit or configuration from single components in 3 U and 6 U, 8 ... 42 HP
- Shielded and unshielded versions
- Side panel with screw on option for top / bottom cover (page 7.70)
- For one or several PCBs or one or several connectors
- Various possibilities for combining the individual components

**NEW**

Overview ..... 7.64

Introduction:  
Product features,  
product  
comparison .... 7.66

Frame type plug-in units  
PRO

Frame type  
plug-in units PRO,  
shielded/  
unshielded ..... 7.68

Frame type  
plug-in units PRO,  
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Frame-type  
plug-in units PRO  
with hood,  
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ServicePLUS  
configuration ..... 7.86

**NEW**

HF plug-in units

Kits 3 U ..... 7.92

ServicePLUS  
configuration .... 7.93

Accessories for plug-in units  
see page ..... 7.52



#### PLUG-IN UNITS PRO WITH HOOD

- Kit in 3 U and 6 U, 5 ... 14 HP
- Shielded and unshielded versions
- For one PCB with one connector
- Various possibilities for combining the individual components

#### HF FRAME-TYPE PLUG-IN UNITS

- Kit or configuration from single components in 3 U, 7 ... 28 HP
- For shielding against high-frequency radiation
- Tube with cooling fins, in extruded aluminium
- For one or more PCBs, one or more connectors

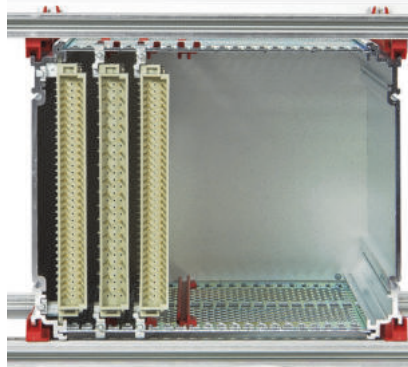


#### SERVICEPLUS

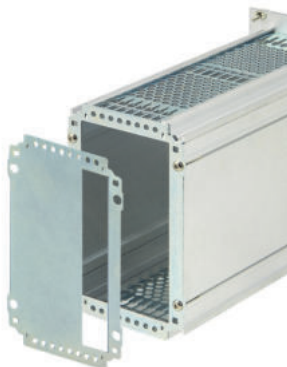
e.g. individual configuration and assembly  
 e.g. modification (special colours)  
 e.g. customised solutions with modified frame-type plug-in units  
 (special sizes)

# Frame type plug-in units

## THE NEW GENERATION



Rear view: frame type plug-in unit mounted in subrack

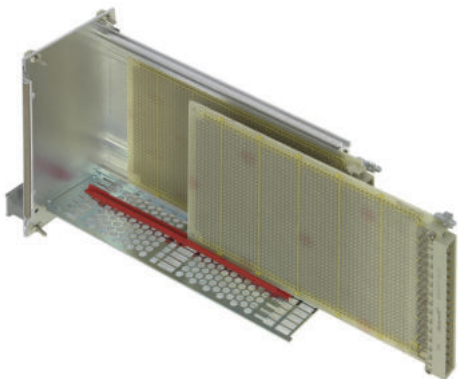


04808013 04808014

The frame type plug-in units conform to IEC 60297-3-101. They serve to house standardized PCBs and bulky components. Because of the standardized assembly dimensions the frame type plug-in units can be mounted on guide rails, to be pushed into the subrack, in any order and using any plug-in unit. The robust Al extrusion construction is especially suited for heavy components and the rough handling as "Field Replaceable Unit".

### Details

The EMC version of the front panel was improved for frequencies over 1 GHz by using a conductive textile gasket and a robust U-shaped front panel

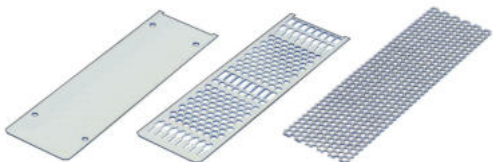


Board for slot 1 fixes to the side panel; further boards are fixed with guide rails

04808012



04808011



Sliding cover plates

134357858



130961416

Push-in cover plates for quick fitting

Handles to be bolted-on from the front, easy mounting

Optimised air flow rate thanks to slender extruded side panels and large perforation areas in the cover plates, a perforation degree of up to 65 % is possible

3 cover plate versions (solid (1), perforated (2), perforated for guide rail mounting (3)). Versions 1 + 3 can be screwed on to side panels

Width of frame-type plug-in units from 8 HP

To achieve a higher airflow rate, exceptionally slender guide rails are used to fix the boards

From slot 2 guide rails can be positioned in HP grid

Easy fixing of the boards in the frame-type plug-in units; only 2 x 1 screws per board are needed to fix the boards

3 rear panel variants (solid, for one DIN connector, for multiple DIN connectors)

The flat rear panel enables simple reworking (e.g. punching); the rear panel can be removed without removing the PCBs

For better EMC contacting between rear panel and cover plate and to increase the stability of broad frame-type plug-in units, a rear panel retainer is available

Use of Torx screws for secure machine mounting

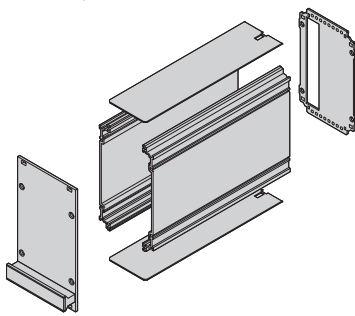
### Note:

Frame type plug-in units cannot be combined with guide rails for CompactPCI or VME64x applications (width 4 HP)

# Frame type plug-in units

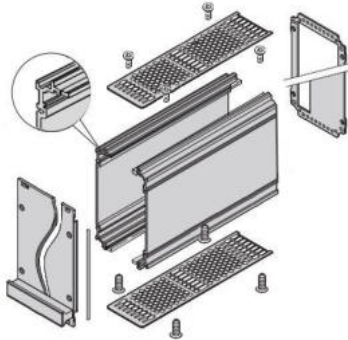
## COMPARISON: FRAME-TYPE PLUG-IN UNITS PRO/FRAME-TYPE PLUG-IN UNITS PRO WITH HOOD

### Frame-type plug-in units PRO



Cover plate, slide-in option

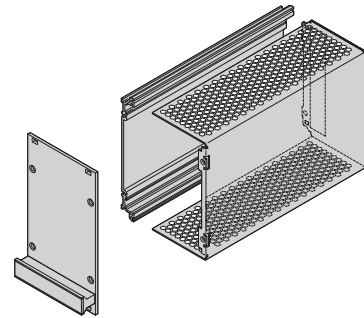
04808125



Cover plate, screw-on option

135201668

### Frame-type plug-in units PRO with hood (shielded)



04808115

For one or multiple PCBs

Only for one PCB

Modular, at least 6 components  
(front panel, 2 side panels, 2 cover plates, rear panel)

Only 3 components  
(front panel, left hand side panel, hood with integrated rear panel)

Identical front panel and front handle

Identical front panel and front handle

Identical left hand side panel (Al extrusion)

Identical left hand side panel (Al extrusion)

Side panel on right hand side (Al extrusion)

Hood on right hand side (Al sheet)

Separate rear panel

Hood includes rear panel

Widths from 8 HP to 42 HP

Widths from 5 HP to 14 HP

Guiding in subrack/case with 4 guide rails; left and right side panels

Guiding in subrack/case with 2 guide rails;  
left side panel

3 rear panel variants (for one DIN connector, for multiple DIN connectors,  
rear panel without cut-out)

1 rear panel variant (for one DIN connector)

3 cover plate versions (solid (1), perforated (2), perforated for guide rail  
mounting (3)). On request, versions 1+3 can be screwed on to side panels

2 cover versions (solid and perforated). Please see service plus table  
page 7.86



130961416



130961413

# Frame type plug-in units PRO

## FRAME TYPE PLUG-IN UNITS PRO, 3 U KITS, FRONT PANEL SHIELDED (TEXTILE GASKET)



130962293

130961416

Illustration shows 10 HP width, side panel depth 227 and 167 mm

- Extruded side panels with groove to right and left, to insert a PCB (board position in accordance with standard in left side panel only)
- 2 board depths: 160 mm and 220 mm
- 2 cover plate versions
  - with perforation, for guide rails (5a, airflow rate approx. 60 %); please order guide rails separately
  - Without perforation (5b)
- 2 rear panel versions
  - With cut-out for one connector (3a, in accordance with EN 60603-2, DIN 41612)
  - With cut-out for multiple connectors (3b, in accordance with EN 60603-2, DIN 41612)

### DELIVERY COMPRISES (Kit)

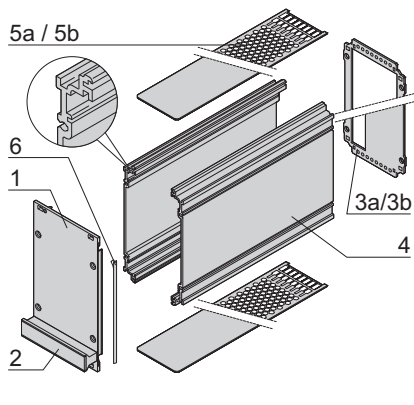
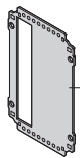
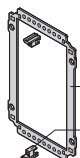
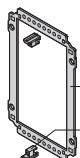
| Item | Qty | Description                                                                                                                                              |
|------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | 1   | Front panel, U profile anodised, rear conductive, alignment pin pressed-in                                                                               |
| 2    | 1   | Handle, grey, (RAL 7035), PC, UL 94 V0, EN 45545-2, R22-R24, HL3                                                                                         |
| 3a   | 1   | Rear panel, St, zinc-plated, 1.5 mm, with cut-out for one connector, incl. PCB fixing (slot 1)                                                           |
| 3b   | 1   | Rear panel, St, zinc-plated, 1.5 mm, with cut-out for multiple connectors, incl. PCB fixing (slot 1 and slot 2), incl. 2 guide rails rear panel fastener |
| 3c   | 2   |                                                                                                                                                          |
| 4    | 2   | Side panel, Al extrusion, colourless passivated, with groove for one PCB                                                                                 |
| 5a   | 2   | Cover plate, St, zinc-plated, 1.0 mm, with perforation                                                                                                   |
| 5b   | 2   | Cover plate, St, zinc-plated, 1.0 mm, without perforation                                                                                                |
| 6    | 1   | EMC sealing (textile)                                                                                                                                    |
| 7    | 1   | Assembly kit (*)                                                                                                                                         |



Screw Driver, Torx 8, **64560-026**  
Assembly Tool, Torx 8, **24812-650**

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### ORDER INFORMATION

|                                                                                    | Rear panel                                                                          | Height | Width | Cover plate without perforation                                                      |                         | Cover plate with perforation, for guide rails                                         |                         |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------|-------|--------------------------------------------------------------------------------------|-------------------------|---------------------------------------------------------------------------------------|-------------------------|
|                                                                                    |                                                                                     |        |       |  |                         |  |                         |
|                                                                                    |                                                                                     |        |       | 107887669                                                                            |                         | 107887758                                                                             |                         |
| Side panel depth                                                                   |                                                                                     | U      | HP    | 167 mm deep<br>Part no.                                                              | 227 mm deep<br>Part no. | 167 mm deep<br>Part no.                                                               | 227 mm deep<br>Part no. |
|  |  | 3      | 8     | <b>24813-408</b>                                                                     | <b>24813-458</b>        | <b>24813-208</b>                                                                      | <b>24813-258</b>        |
|                                                                                    |                                                                                     | 3      | 10    | <b>24813-410</b>                                                                     | <b>24813-460</b>        | <b>24813-210</b>                                                                      | <b>24813-260</b>        |
|                                                                                    |                                                                                     | 3      | 12    | <b>24813-412</b>                                                                     | <b>24813-462</b>        | <b>24813-212</b>                                                                      | <b>24813-262</b>        |
|                                                                                    |                                                                                     | 3      | 14    | <b>24813-414</b>                                                                     | <b>24813-464</b>        | <b>24813-214</b>                                                                      | <b>24813-264</b>        |
|                                                                                    |                                                                                     | 3      | 21    | <b>24813-421</b>                                                                     | <b>24813-471</b>        | <b>24813-221</b>                                                                      | <b>24813-271</b>        |
|                                                                                    |                                                                                     | 3      | 28    | <b>24813-428</b>                                                                     | <b>24813-478</b>        | <b>24813-228</b>                                                                      | <b>24813-278</b>        |
|                                                                                    |  | 3      | 42    | <b>24813-442</b>                                                                     | <b>24813-492</b>        | <b>24813-242</b>                                                                      | <b>24813-292</b>        |
|                                                                                    |                                                                                     | 3      | 8     | –                                                                                    | –                       | <b>24813-308</b>                                                                      | <b>24813-358</b>        |
|                                                                                    |                                                                                     | 3      | 10    | –                                                                                    | –                       | <b>24813-310</b>                                                                      | <b>24813-360</b>        |
|                                                                                    |                                                                                     | 3      | 12    | –                                                                                    | –                       | <b>24813-312</b>                                                                      | <b>24813-362</b>        |
|                                                                                    |                                                                                     | 3      | 14    | –                                                                                    | –                       | <b>24813-314</b>                                                                      | <b>24813-364</b>        |
|                                                                                    |                                                                                     | 3      | 21    | –                                                                                    | –                       | <b>24813-321</b>                                                                      | <b>24813-371</b>        |
|                                                                                    |  | 3      | 28    | –                                                                                    | –                       | <b>24813-328</b>                                                                      | <b>24813-378</b>        |
|                                                                                    |                                                                                     | 3      | 42    | –                                                                                    | –                       | <b>24813-342</b>                                                                      | <b>24813-392</b>        |

EMC gasket stainless steel, for U-shaped front panel

1 Kit, 3U, 10pcs **21102-105**

- Description of individual components, guide rails, dimension drawings, other combinations cover plates/rear panels etc. see from page 7.73

# Frame type plug-in units PRO

## FRAME TYPE PLUG-IN UNITS PRO, 6 U KITS, FRONT PANEL SHIELDED (TEXTILE GASKET)



130962340

130962301

Illustration shows 10 HP width, side panel depth 227 and 167 mm

- Extruded side panels with groove to right and left, to insert a PCB (board position in accordance with standard in left side panel only)
- 2 board depths: 160 mm and 220 mm
- 2 cover plate versions
  - With perforation, for guide rails (5a, airflow rate approx. 60 %),
  - please order guide rails separately
  - Without perforation (5b)
- 2 rear panel versions
  - With cut-out for one connector (3a; in accordance with EN 60603-2, DIN 41612)
  - With cut-out for multiple connectors (3b; in accordance with EN 60603-2, DIN 41612)
  - 6 U has cut-outs for connectors at top and bottom

### DELIVERY COMPRISES (Kit)

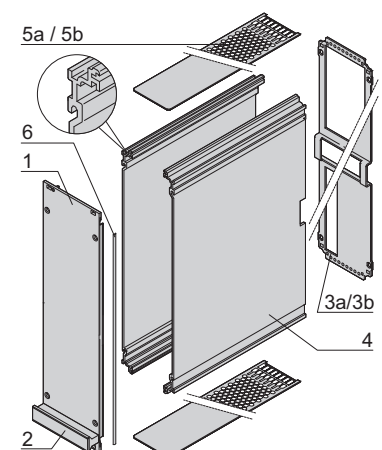
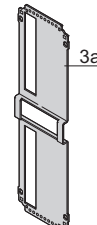
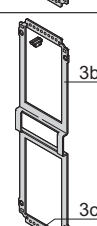
| Item | Qty | Description                                                                                                                                              |
|------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | 1   | Front panel, U profile anodised, rear conductive, alignment pin pressed-in                                                                               |
| 2    | 1   | Handle, grey, (RAL 7035), PC, UL 94 V0, EN 45545-2, R22-R24, HL3                                                                                         |
| 3a   | 1   | Rear panel, St, zinc-plated, 1.5 mm, with cut-out for one connector, incl. PCB fixing (slot 1)                                                           |
| 3b   | 1   | Rear panel, St, zinc-plated, 1.5 mm, with cut-out for multiple connectors, incl. PCB fixing (slot 1 and slot 2), incl. 2 guide rails rear panel fastener |
| 3c   | 2   |                                                                                                                                                          |
| 4    | 2   | Side panel, Al extrusion, colourless passivated, with groove for one PCB                                                                                 |
| 5a   | 2   | Cover plate, St, zinc-plated, 1.0 mm, with perforation                                                                                                   |
| 5b   | 2   | Cover plate, St, zinc-plated, 1.0 mm, without perforation                                                                                                |
| 6    | 1   | EMC sealing (textile)                                                                                                                                    |
| 7    | 1   | Assembly kit (*)                                                                                                                                         |



Screw Driver, Torx 8, **64560-026**  
Assembly Tool, Torx 8, **24812-650**

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### ORDER INFORMATION

|                                                                                     | Rear panel                                                                          | Height | Width | Cover plate without perforation                                                      |                         | Cover plate with perforation, for guide rails                                         |                         |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------|-------|--------------------------------------------------------------------------------------|-------------------------|---------------------------------------------------------------------------------------|-------------------------|
|                                                                                     |                                                                                     |        |       |  |                         |  |                         |
|                                                                                     |                                                                                     |        |       | 107887669                                                                            |                         | 107887758                                                                             |                         |
| Side panel depth                                                                    |                                                                                     | U      | HP    | 167 mm deep<br>Part no.                                                              | 227 mm deep<br>Part no. | 167 mm deep<br>Part no.                                                               | 227 mm deep<br>Part no. |
|  |  | 6      | 8     | <b>24813-908</b>                                                                     | <b>24813-958</b>        | <b>24813-708</b>                                                                      | <b>24813-758</b>        |
|                                                                                     |                                                                                     | 6      | 10    | <b>24813-910</b>                                                                     | <b>24813-960</b>        | <b>24813-710</b>                                                                      | <b>24813-760</b>        |
|                                                                                     |                                                                                     | 6      | 12    | <b>24813-912</b>                                                                     | <b>24813-962</b>        | <b>24813-712</b>                                                                      | <b>24813-762</b>        |
|                                                                                     |                                                                                     | 6      | 14    | <b>24813-914</b>                                                                     | <b>24813-964</b>        | <b>24813-714</b>                                                                      | <b>24813-764</b>        |
|                                                                                     |                                                                                     | 6      | 21    | <b>24813-921</b>                                                                     | <b>24813-971</b>        | <b>24813-721</b>                                                                      | <b>24813-771</b>        |
|                                                                                     |                                                                                     | 6      | 28    | <b>24813-928</b>                                                                     | <b>24813-978</b>        | <b>24813-728</b>                                                                      | <b>24813-778</b>        |
|                                                                                     |  | 6      | 42    | <b>24813-942</b>                                                                     | <b>24813-992</b>        | <b>24813-742</b>                                                                      | <b>24813-792</b>        |
|                                                                                     |                                                                                     | 6      | 8     | —                                                                                    | —                       | <b>24813-808</b>                                                                      | <b>24813-858</b>        |
|                                                                                     |                                                                                     | 6      | 10    | —                                                                                    | —                       | <b>24813-810</b>                                                                      | <b>24813-860</b>        |
|                                                                                     |                                                                                     | 6      | 12    | —                                                                                    | —                       | <b>24813-812</b>                                                                      | <b>24813-862</b>        |
|                                                                                     |                                                                                     | 6      | 14    | —                                                                                    | —                       | <b>24813-814</b>                                                                      | <b>24813-864</b>        |
|                                                                                     |                                                                                     | 6      | 21    | —                                                                                    | —                       | <b>24813-821</b>                                                                      | <b>24813-871</b>        |
|                                                                                     |                                                                                     | 6      | 28    | —                                                                                    | —                       | <b>24813-828</b>                                                                      | <b>24813-878</b>        |
|                                                                                     |                                                                                     | 6      | 42    | —                                                                                    | —                       | <b>24813-842</b>                                                                      | <b>24813-892</b>        |

EMC gasket stainless steel, for U-shaped front panel

1 Kit, 6U, 10pcs **21102-107**

- Description of individual components, guide rails, dimension drawings, other combinations cover plates/rear panels etc. see from page 7.73

# Frame type plug-in units PRO

## FRAME TYPE PLUG-IN UNITS PRO, 3 U KITS, SHIELDED / NON SHIELDED, WITH SCREW-ON OPTION



Illustration shows 12 HP width, shielded version, side panel depth 167 mm

135205278

- Extruded side panels with groove to right and left, to insert a PCB (board position in accordance with standard in left side panel only).  
Screw-on option for top / bottom covers
- 2 board depths: 160 mm and 220 mm
- With perforation, for guide rail assembly (please order the guide rails separately)
- 1 Rear Panel with one cut-out for one DIN connector (conform with EN 60603-2, DIN 41612)

### LIEFERUMFANG (Bausatz)

| Pos. | Menge | Beschreibung                                                                                                              |
|------|-------|---------------------------------------------------------------------------------------------------------------------------|
| 1    | 1     | Front panel, U profile anodised, rear conductive, alignment pin pressed-in (EMC shielded)                                 |
| 1a   | 1     | Front panel, Al, 2.5 mm, anodised, cut edges plain                                                                        |
| 2    | 1     | Handle, grey, (RAL 7035), PC, UL 94 V0, EN 45545-2, R22-R24, HL3                                                          |
| 3a   | 1     | Rear panel, St, zinc-plated, 1.5 mm, with cut-out for one connector, incl. PCB fixing (slot 1).                           |
| 3b   | 1     | Cut-out for Multiple Connectors                                                                                           |
| 4    | 2     | Side panel, Al extrusion, colourless passivated,<br>Side panel with screw-on option for fixing of the top / bottom covers |
| 5    | 2     | Cover plate, with screw-on option, St, zinc-plated, 1.0 mm, with perforation (Guide rails can be assembled)               |
| 6    | 1     | EMC sealing (textile)                                                                                                     |
| 7    | 1     | Assembly kit                                                                                                              |



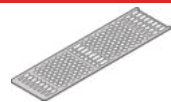
Screw Driver, Torx 8,  
Assembly Tool, Torx 8,

**64560-026**  
**24812-650**

107888226 110434981

### ORDER INFORMATIONEN

135201668

|    |   |    | Height           | Width | Shielded Version<br>(U-shaped Front Panel)                                           | Unshielded Version<br>(Flat Front Panel)                                              |
|----|---|----|------------------|-------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|    |   |    |                  |       |  |  |
|    |   |    | Side panel depth |       | 167 mm deep                                                                          | 227 mm deep                                                                           |
|    |   |    | U                | HP    | Part-No.                                                                             | Part-No.                                                                              |
| 3a | 3 | 12 |                  |       | <b>24813-245</b>                                                                     | -                                                                                     |
| 3a | 3 | 14 |                  |       | <b>24813-246</b>                                                                     | <b>24812-246</b>                                                                      |
| 3a | 3 | 21 |                  |       | -                                                                                    | <b>24813-297</b>                                                                      |
| 3a | 3 | 28 |                  |       | -                                                                                    | <b>24812-247</b>                                                                      |
| 3a | 3 | 28 |                  |       | -                                                                                    | <b>24812-248</b>                                                                      |
| 3b | 3 | 21 |                  |       | -                                                                                    | <b>24813-397</b>                                                                      |
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135201668

EMC gasket stainless steel, for U-shaped front panel  
**21102-105**

- Description of individual components, guide rails, dimension drawings, other combinations cover plates/rear panels etc.  
see from page 7.73

# Frame type plug-in units PRO

## FRAME-TYPE PLUG-IN UNITS PRO, 3 U KITS, FRONT PANEL UNSHIELDED



Illustration shows 10 HP width, side panel depth 227 and 167 mm

- Extruded side panels with groove to right and left, to insert a PCB (board position in accordance with standard in left side panel only)
- 2 board depths: 160 mm and 220 mm
- 2 cover plate versions
  - with perforation, for guide rails (5a, airflow approx. 60 %); please order guide rails separately
  - Without perforation (5b)
- 2 rear panel versions
  - With cut-out for one connector (3a, in accordance with EN 60603-2, DIN 41612)
  - With cut-out for multiple connectors (3b, in accordance with EN 60603-2, DIN 41612)

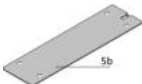
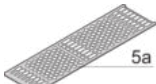
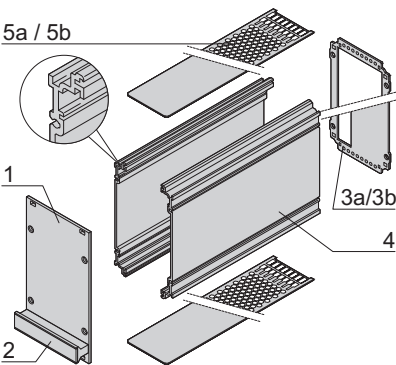
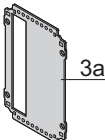
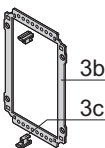
### DELIVERY COMPRISES (Kit)

| Item | Qty | Description                                                                                                                                              |
|------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | 1   | Front panel, Al, 2.5 mm, anodised, cut edges plain                                                                                                       |
| 2    | 1   | Handle, grey, (RAL 7035), PC, UL 94 V0, EN 45545-2, R22-R24, HL3                                                                                         |
| 3a   | 1   | Rear panel, St, zinc-plated, 1.5 mm, with cut-out for one connector, incl. PCB fixing (slot 1)                                                           |
| 3b   | 1   | Rear panel, St, zinc-plated, 1.5 mm, with cut-out for multiple connectors, incl. PCB fixing (slot 1 and slot 2), incl. 2 guide rails rear panel fastener |
| 3c   | 2   |                                                                                                                                                          |
| 4    | 2   | Side panel, Al extrusion, colourless passivated, with groove for one PCB                                                                                 |
| 5a   | 2   | Cover plate, St, zinc-plated, 1.0 mm, with perforation                                                                                                   |
| 5b   | 2   | Cover plate, St, zinc-plated, 1.0 mm, without perforation                                                                                                |
| 6    | 1   | Assembly kit (*)                                                                                                                                         |



Screw Driver, Torx 8, **64560-026**  
Assembly Tool, Torx 8, **24812-650**

### ORDER INFORMATION

|                                                                                    | Rear panel                                                                          | Height | Width | Cover plate without perforation                                                      |                         | Cover plate with perforation, for guide rails                                         |                         |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------|-------|--------------------------------------------------------------------------------------|-------------------------|---------------------------------------------------------------------------------------|-------------------------|
|                                                                                    |                                                                                     |        |       |  |                         |  |                         |
|                                                                                    |                                                                                     |        |       | 107887669                                                                            |                         | 107887758                                                                             |                         |
| Side panel depth                                                                   |                                                                                     | U      | HP    | 167 mm deep<br>Part no.                                                              | 227 mm deep<br>Part no. | 167 mm deep<br>Part no.                                                               | 227 mm deep<br>Part no. |
|  |  | 3      | 8     | <b>24812-408</b>                                                                     | <b>24812-458</b>        | <b>24812-208</b>                                                                      | <b>24812-258</b>        |
|                                                                                    |                                                                                     | 3      | 10    | <b>24812-410</b>                                                                     | <b>24812-460</b>        | <b>24812-210</b>                                                                      | <b>24812-260</b>        |
|                                                                                    |                                                                                     | 3      | 12    | <b>24812-412</b>                                                                     | <b>24812-462</b>        | <b>24812-212</b>                                                                      | <b>24812-262</b>        |
|                                                                                    |                                                                                     | 3      | 14    | <b>24812-414</b>                                                                     | <b>24812-464</b>        | <b>24812-214</b>                                                                      | <b>24812-264</b>        |
|                                                                                    |                                                                                     | 3      | 21    | <b>24812-421</b>                                                                     | <b>24812-471</b>        | <b>24812-221</b>                                                                      | <b>24812-271</b>        |
|                                                                                    |                                                                                     | 3      | 28    | <b>24812-428</b>                                                                     | <b>24812-478</b>        | <b>24812-228</b>                                                                      | <b>24812-278</b>        |
|                                                                                    |                                                                                     | 3      | 42    | <b>24812-442</b>                                                                     | <b>24812-492</b>        | <b>24812-242</b>                                                                      | <b>24812-292</b>        |
|                                                                                    |  | 3      | 8     | –                                                                                    | –                       | <b>24812-308</b>                                                                      | <b>24812-358</b>        |
|                                                                                    |                                                                                     | 3      | 10    | –                                                                                    | –                       | <b>24812-310</b>                                                                      | <b>24812-360</b>        |
|                                                                                    |                                                                                     | 3      | 12    | –                                                                                    | –                       | <b>24812-312</b>                                                                      | <b>24812-362</b>        |
|                                                                                    |                                                                                     | 3      | 14    | –                                                                                    | –                       | <b>24812-314</b>                                                                      | <b>24812-364</b>        |
|                                                                                    |                                                                                     | 3      | 21    | –                                                                                    | –                       | <b>24812-321</b>                                                                      | <b>24812-371</b>        |
|                                                                                    |                                                                                     | 3      | 28    | –                                                                                    | –                       | <b>24812-328</b>                                                                      | <b>24812-378</b>        |
|                                                                                    |                                                                                     | 3      | 42    | –                                                                                    | –                       | <b>24812-342</b>                                                                      | <b>24812-392</b>        |

- Description of individual components, guide rails, dimension drawings, other combinations cover plates/rear panels etc. see from page 7.73

# Frame type plug-in units PRO

## FRAME TYPE PLUG-IN UNITS PRO, 6 U KITS, FRONT PANEL UNSHIELDED



Illustration shows 10 HP width, side panel depth 227 and 167 mm

- Extruded side panels with groove to right and left, to insert a PCB (board position in accordance with standard in left side panel only)
- 2 board depths: 160 mm and 220 mm
- 2 cover plate versions
  - with perforation, for guide rails (5a, airflow approx. 60 %); please order guide rails separately
  - Without perforation (5b)
- 2 rear panel versions
  - With cut-out for one connector (3a; in accordance with EN 60603-2, DIN 41612)
  - With cut-out for multiple connectors (3b; in accordance with EN 60603-2, DIN 41612)
  - 6 U has cut-outs for connectors at top and bottom

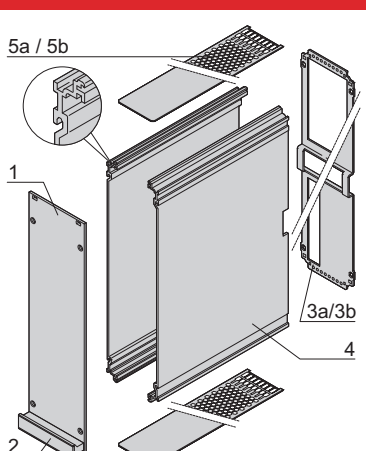
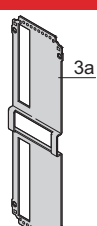
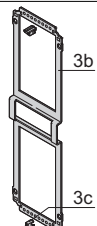
### DELIVERY COMPRISES (Kit)

| Item | Qty | Description                                                                                                                                              |
|------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | 1   | Front panel, Al, 2.5 mm, anodised, cut edges plain                                                                                                       |
| 2    | 1   | Handle, grey, (RAL 7035), PC, UL 94 V0, EN 45545-2, R22-R24, HL3                                                                                         |
| 3a   | 1   | Rear panel, St, zinc-plated, 1.5 mm, with cut-out for one connector, incl. PCB fixing (slot 1)                                                           |
| 3b   | 1   | Rear panel, St, zinc-plated, 1.5 mm, with cut-out for multiple connectors, incl. PCB fixing (slot 1 and slot 2), incl. 2 guide rails rear panel fastener |
| 3c   | 2   |                                                                                                                                                          |
| 4    | 2   | Side panel, Al extrusion, colourless passivated, with groove for one PCB                                                                                 |
| 5a   | 2   | Cover plate, St, zinc-plated, 1.0 mm, with perforation                                                                                                   |
| 5b   | 2   | Cover plate, St, zinc-plated, 1.0 mm, without perforation                                                                                                |
| 6    | 1   | Assembly kit (*)                                                                                                                                         |



Screw Driver, Torx 8, **64560-026**  
Assembly Tool, Torx 8, **24812-650**

### ORDER INFORMATION

|                                                                                     | Rear panel                                                                          | Height | Width | Cover plate without perforation                                                      |                         | Cover plate with perforation, for guide rails                                         |                         |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------|-------|--------------------------------------------------------------------------------------|-------------------------|---------------------------------------------------------------------------------------|-------------------------|
|                                                                                     |                                                                                     |        |       |  |                         |  |                         |
| Side panel depth                                                                    |                                                                                     | U      | HP    | 167 mm deep<br>Part no.                                                              | 227 mm deep<br>Part no. | 167 mm deep<br>Part no.                                                               | 227 mm deep<br>Part no. |
|  |  | 6      | 8     | <b>24812-908</b>                                                                     | <b>24812-958</b>        | <b>24812-708</b>                                                                      | <b>24812-758</b>        |
|                                                                                     |                                                                                     | 6      | 10    | <b>24812-910</b>                                                                     | <b>24812-960</b>        | <b>24812-710</b>                                                                      | <b>24812-760</b>        |
|                                                                                     |                                                                                     | 6      | 12    | <b>24812-912</b>                                                                     | <b>24812-962</b>        | <b>24812-712</b>                                                                      | <b>24812-762</b>        |
|                                                                                     |                                                                                     | 6      | 14    | <b>24812-914</b>                                                                     | <b>24812-964</b>        | <b>24812-714</b>                                                                      | <b>24812-764</b>        |
|                                                                                     |                                                                                     | 6      | 21    | <b>24812-921</b>                                                                     | <b>24812-971</b>        | <b>24812-721</b>                                                                      | <b>24812-771</b>        |
|                                                                                     |                                                                                     | 6      | 28    | <b>24812-928</b>                                                                     | <b>24812-978</b>        | <b>24812-728</b>                                                                      | <b>24812-778</b>        |
|                                                                                     |  | 6      | 42    | <b>24812-942</b>                                                                     | <b>24812-992</b>        | <b>24812-742</b>                                                                      | <b>24812-792</b>        |
|                                                                                     |                                                                                     | 6      | 8     | —                                                                                    | —                       | <b>24812-808</b>                                                                      | <b>24812-858</b>        |
|                                                                                     |                                                                                     | 6      | 10    | —                                                                                    | —                       | <b>24812-810</b>                                                                      | <b>24812-860</b>        |
|                                                                                     |                                                                                     | 6      | 12    | —                                                                                    | —                       | <b>24812-812</b>                                                                      | <b>24812-862</b>        |
|                                                                                     |                                                                                     | 6      | 14    | —                                                                                    | —                       | <b>24812-814</b>                                                                      | <b>24812-864</b>        |
|                                                                                     |                                                                                     | 6      | 21    | —                                                                                    | —                       | <b>24812-821</b>                                                                      | <b>24812-871</b>        |
|                                                                                     |                                                                                     | 6      | 28    | —                                                                                    | —                       | <b>24812-828</b>                                                                      | <b>24812-878</b>        |
|                                                                                     |                                                                                     | 6      | 42    | —                                                                                    | —                       | <b>24812-842</b>                                                                      | <b>24812-892</b>        |

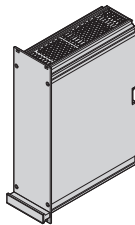
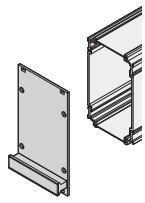
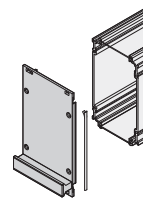
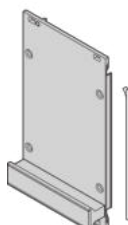
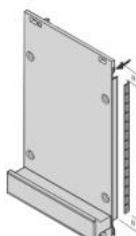
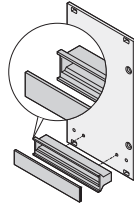
- Description of individual components, guide rails, dimension drawings, other combinations cover plates/rear panels etc. see from page 7.73

# Frame type plug-in units PRO ServicePLUS

**SCHROFF**

## INDIVIDUAL COMPONENTS

## FRONT PANELS, FRONT HANDLES

|                                                                                                                                                                                  | Front panel                                                                                                                                                                     | Shieldable front panel, U profile                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                           |               |                                                                                                                                                                                                                                                       | Trapeziform handle, grey (without extraction function) |                                                                                                                                                                                                                                                                                                                                             |                               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
|                                                                                                                                                                                  | unshielded                                                                                                                                                                      | Front panel                                                                                                                                                                                  | EMC shielding - textile, for front panel and 19" bracket/rear profile                                                                                                                                                                                                                                                     |               | EMC shielding - stainless steel, for front panel and 19" bracket/rear profile                                                                                                                                                                         |                                                        | Grey                                                                                                                                                                                                                                                                                                                                        | Black                         |
| <div><br/>04808124</div> <div>Supplied quantity for assembly of 5 frame type plug-in units</div> | <div><br/>04808060</div> <div>Al, 2.5 mm, front anodized, rear anodized, cut edges blank</div> | <div><br/>04808061</div> <div>Al extrusion, alignment pin pressed-in, front anodised, rear conductive</div> | <div><br/>04808062</div> <div>always fixed laterally on the front panel, in the groove of the profile, textile gasket, core: foam, TPE foam; sleeve: textile cladding with CuNi coating, UL 94 V-0 temperature range -40 ... 70 °C</div> |               | <div></div> <div>Easy mounting by clipping the gasket onto the right front panel bracket stainless steel gasket</div> <div>temperature range -200 ... +160 °C</div> |                                                        | <div><br/>04808063</div> <div>Handle: PC, UL 94 V0; EN 45545-2, R22- R24, HL3 identification plate: Al, 1.5 mm, anodised, cut edges plain; please order clip separately (included in mounting kit for five plug-in units or individual parts) 7.75</div> |                               |
|                                                                                                                                                                                  | 1 piece (SPQ 5) <sup>1)</sup>                                                                                                                                                   | 1 piece (SPQ 5) <sup>1)</sup>                                                                                                                                                                | PU 10 pieces                                                                                                                                                                                                                                                                                                              | PU 100 pieces | PU 10 pieces                                                                                                                                                                                                                                          | PU 100 pieces                                          | 1 piece (SPQ 5) <sup>1)</sup>                                                                                                                                                                                                                                                                                                               | 1 piece (SPQ 5) <sup>1)</sup> |
| 3 U Height                                                                                                                                                                       |                                                                                                                                                                                 |                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                           |               |                                                                                                                                                                                                                                                       |                                                        |                                                                                                                                                                                                                                                                                                                                             |                               |
| PCB depth 160 mm                                                                                                                                                                 |                                                                                                                                                                                 |                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                           |               |                                                                                                                                                                                                                                                       |                                                        |                                                                                                                                                                                                                                                                                                                                             |                               |
| 8                                                                                                                                                                                | 34812-108                                                                                                                                                                       | 34813-108                                                                                                                                                                                    | 21101-853                                                                                                                                                                                                                                                                                                                 | 21101-854     | 21102-105                                                                                                                                                                                                                                             | 21102-106                                              | 20808-062                                                                                                                                                                                                                                                                                                                                   | 20808-083                     |
| 10                                                                                                                                                                               | 34812-110                                                                                                                                                                       | 34813-110                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                           |               |                                                                                                                                                                                                                                                       |                                                        | 20808-004                                                                                                                                                                                                                                                                                                                                   | 20808-085                     |
| 12                                                                                                                                                                               | 34812-112                                                                                                                                                                       | 34813-112                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                           |               |                                                                                                                                                                                                                                                       |                                                        | 20808-064                                                                                                                                                                                                                                                                                                                                   | 20808-086                     |
| 14                                                                                                                                                                               | 34812-114                                                                                                                                                                       | 34813-114                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                           |               |                                                                                                                                                                                                                                                       |                                                        | 20808-065                                                                                                                                                                                                                                                                                                                                   | 20808-087                     |
| 21                                                                                                                                                                               | 34812-121                                                                                                                                                                       | 34813-121                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                           |               |                                                                                                                                                                                                                                                       |                                                        | 20808-066                                                                                                                                                                                                                                                                                                                                   | 20808-088                     |
| 28                                                                                                                                                                               | 34812-128                                                                                                                                                                       | 34813-128                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                           |               |                                                                                                                                                                                                                                                       |                                                        | 20808-067                                                                                                                                                                                                                                                                                                                                   | 20808-089                     |
| 42                                                                                                                                                                               | 34812-142                                                                                                                                                                       | 34813-142                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                           |               |                                                                                                                                                                                                                                                       |                                                        | 20808-068                                                                                                                                                                                                                                                                                                                                   | 20808-091                     |
| PCB depth 220 mm                                                                                                                                                                 |                                                                                                                                                                                 |                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                           |               |                                                                                                                                                                                                                                                       |                                                        |                                                                                                                                                                                                                                                                                                                                             |                               |
| 8                                                                                                                                                                                | 34812-108                                                                                                                                                                       | 34813-108                                                                                                                                                                                    | 21101-853                                                                                                                                                                                                                                                                                                                 | 21101-854     | 21102-105                                                                                                                                                                                                                                             | 21102-106                                              | 20808-062                                                                                                                                                                                                                                                                                                                                   | 20808-083                     |
| 10                                                                                                                                                                               | 34812-110                                                                                                                                                                       | 34813-110                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                           |               |                                                                                                                                                                                                                                                       |                                                        | 20808-004                                                                                                                                                                                                                                                                                                                                   | 20808-085                     |
| 12                                                                                                                                                                               | 34812-112                                                                                                                                                                       | 34813-112                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                           |               |                                                                                                                                                                                                                                                       |                                                        | 20808-064                                                                                                                                                                                                                                                                                                                                   | 20808-086                     |
| 14                                                                                                                                                                               | 34812-114                                                                                                                                                                       | 34813-114                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                           |               |                                                                                                                                                                                                                                                       |                                                        | 20808-065                                                                                                                                                                                                                                                                                                                                   | 20808-087                     |
| 21                                                                                                                                                                               | 34812-121                                                                                                                                                                       | 34813-121                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                           |               |                                                                                                                                                                                                                                                       |                                                        | 20808-066                                                                                                                                                                                                                                                                                                                                   | 20808-088                     |
| 28                                                                                                                                                                               | 34812-128                                                                                                                                                                       | 34813-128                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                           |               |                                                                                                                                                                                                                                                       |                                                        | 20808-067                                                                                                                                                                                                                                                                                                                                   | 20808-089                     |
| 42                                                                                                                                                                               | 34812-142                                                                                                                                                                       | 34813-142                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                           |               |                                                                                                                                                                                                                                                       |                                                        | 20808-068                                                                                                                                                                                                                                                                                                                                   | 20808-091                     |
| 6 U Height                                                                                                                                                                       |                                                                                                                                                                                 |                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                           |               |                                                                                                                                                                                                                                                       |                                                        |                                                                                                                                                                                                                                                                                                                                             |                               |
| PCB depth 160 mm                                                                                                                                                                 |                                                                                                                                                                                 |                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                           |               |                                                                                                                                                                                                                                                       |                                                        |                                                                                                                                                                                                                                                                                                                                             |                               |
| 8                                                                                                                                                                                | 34812-608                                                                                                                                                                       | 34813-608                                                                                                                                                                                    | 21101-855                                                                                                                                                                                                                                                                                                                 | 21101-856     | 21102-107                                                                                                                                                                                                                                             | 21102-108                                              | 20808-062                                                                                                                                                                                                                                                                                                                                   | 20808-083                     |
| 10                                                                                                                                                                               | 34812-610                                                                                                                                                                       | 34813-610                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                           |               |                                                                                                                                                                                                                                                       |                                                        | 20808-004                                                                                                                                                                                                                                                                                                                                   | 20808-085                     |
| 12                                                                                                                                                                               | 34812-612                                                                                                                                                                       | 34813-612                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                           |               |                                                                                                                                                                                                                                                       |                                                        | 20808-064                                                                                                                                                                                                                                                                                                                                   | 20808-086                     |
| 14                                                                                                                                                                               | 34812-614                                                                                                                                                                       | 34813-614                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                           |               |                                                                                                                                                                                                                                                       |                                                        | 20808-065                                                                                                                                                                                                                                                                                                                                   | 20808-087                     |
| 21                                                                                                                                                                               | 34812-621                                                                                                                                                                       | 34813-621                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                           |               |                                                                                                                                                                                                                                                       |                                                        | 20808-066                                                                                                                                                                                                                                                                                                                                   | 20808-088                     |
| 28                                                                                                                                                                               | 34812-628                                                                                                                                                                       | 34813-628                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                           |               |                                                                                                                                                                                                                                                       |                                                        | 20808-067                                                                                                                                                                                                                                                                                                                                   | 20808-089                     |
| 42                                                                                                                                                                               | 34812-642                                                                                                                                                                       | 34813-642                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                           |               |                                                                                                                                                                                                                                                       |                                                        | 20808-068                                                                                                                                                                                                                                                                                                                                   | 20808-091                     |
| PCB depth 220 mm                                                                                                                                                                 |                                                                                                                                                                                 |                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                           |               |                                                                                                                                                                                                                                                       |                                                        |                                                                                                                                                                                                                                                                                                                                             |                               |
| 8                                                                                                                                                                                | 34812-608                                                                                                                                                                       | 34813-608                                                                                                                                                                                    | 21101-855                                                                                                                                                                                                                                                                                                                 | 21101-856     | 21102-107                                                                                                                                                                                                                                             | 21102-108                                              | 20808-062                                                                                                                                                                                                                                                                                                                                   | 20808-083                     |
| 10                                                                                                                                                                               | 34812-610                                                                                                                                                                       | 34813-610                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                           |               |                                                                                                                                                                                                                                                       |                                                        | 20808-004                                                                                                                                                                                                                                                                                                                                   | 20808-085                     |
| 12                                                                                                                                                                               | 34812-612                                                                                                                                                                       | 34813-612                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                           |               |                                                                                                                                                                                                                                                       |                                                        | 20808-064                                                                                                                                                                                                                                                                                                                                   | 20808-086                     |
| 14                                                                                                                                                                               | 34812-614                                                                                                                                                                       | 34813-614                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                           |               |                                                                                                                                                                                                                                                       |                                                        | 20808-065                                                                                                                                                                                                                                                                                                                                   | 20808-087                     |
| 21                                                                                                                                                                               | 34812-621                                                                                                                                                                       | 34813-621                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                           |               |                                                                                                                                                                                                                                                       |                                                        | 20808-066                                                                                                                                                                                                                                                                                                                                   | 20808-088                     |
| 28                                                                                                                                                                               | 34812-628                                                                                                                                                                       | 34813-628                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                           |               |                                                                                                                                                                                                                                                       |                                                        | 20808-067                                                                                                                                                                                                                                                                                                                                   | 20808-089                     |
| 42                                                                                                                                                                               | 34812-642                                                                                                                                                                       | 34813-642                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                           |               |                                                                                                                                                                                                                                                       |                                                        | 20808-068                                                                                                                                                                                                                                                                                                                                   | 20808-091                     |
| Dimensions see page                                                                                                                                                              | 7.80                                                                                                                                                                            | 7.80                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                           |               |                                                                                                                                                                                                                                                       |                                                        | 7.80                                                                                                                                                                                                                                                                                                                                        | 7.80                          |

1) SPQ (standard pack quantity): Order number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ) Please order at least the SPQ quantity or a multiple thereof  
Order number includes one packaging unit (PU); delivery is exclusively made in PU

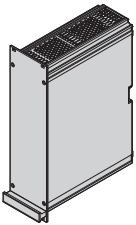
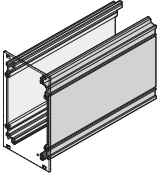
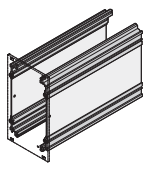
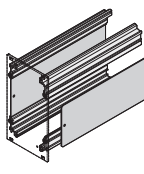
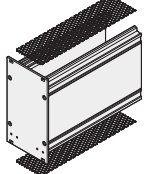


Screw Driver, Torx 8, **64560-026**  
Assembly Tool, Torx 8, **24812-650**

# Frame type plug-in units PRO ServicePLUS

## INDIVIDUAL COMPONENTS

## SIDE PANELS, COVER PLATES, GUIDE RAILS

|                                                                                                                                                                       | Extruded side panel                                                                                                                   |                                                                                              | Extruded side panel for screw on covers                                                                                      |                                                                                                    | Side panel, corner profile and side plate                                                          |                                                                                                     | Cover plate                                                                                          |                                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
|                                                                                                                                                                       | Left                                                                                                                                  | Right                                                                                        | Left                                                                                                                         | Right                                                                                              | Corner profile                                                                                     | Side plate                                                                                          | Without perforation                                                                                  | With perforation                                                                                    |
|  <p>04808124</p> <p>Supplied quantity for assembly of 5 frame type plug-in units</p> |  <p>108909312</p>                                    |  <p>tbd</p> |  <p>135592973</p>                           |  <p>137452826</p> |  <p>04808066</p> |  <p>04808067</p> |  <p>137452824</p> |  <p>04808070</p> |
|                                                                                                                                                                       | Al extrusion, colourless passivated, with groove for one PCB; 3 U symmetrical; 6 U asymmetrical, right and left side panel different) |                                                                                              | Al-profile, passivated, colourless, with bar for fixing screw-on cover covers. With groove for one PCB (S1); 3U symmetrical) |                                                                                                    | Al extrusion, colourless passivated, with groove for one PCB, please order side plate separately   | St, 1 mm, zinc-plated, is inserted into side panel rear angle                                       | St, 1.0 mm, zinc-plated; PCB only possible in slot 1                                                 | St, 1.2 mm, Al, airflow rate in perforated area approx. 65 %; PCB only possible in slot 1           |
|                                                                                                                                                                       | 1 piece (SPQ 10) <sup>1)</sup>                                                                                                        | 1 piece (SPQ 10) <sup>1)</sup>                                                               | 1 piece (SPQ 10) <sup>1)</sup>                                                                                               | 1 piece (SPQ 10) <sup>1)</sup>                                                                     | 1 piece (SPQ 10) <sup>1)</sup>                                                                     | 1 piece (SPQ 5) <sup>1)</sup>                                                                       | 1 piece (SPQ 10) <sup>1)</sup>                                                                       | 1 piece (SPQ 10) <sup>1)</sup>                                                                      |
| <b>3 U Height</b>                                                                                                                                                     |                                                                                                                                       |                                                                                              |                                                                                                                              |                                                                                                    |                                                                                                    |                                                                                                     |                                                                                                      |                                                                                                     |
| PCB depth 160 mm                                                                                                                                                      |                                                                                                                                       |                                                                                              |                                                                                                                              |                                                                                                    |                                                                                                    |                                                                                                     |                                                                                                      |                                                                                                     |
| 8                                                                                                                                                                     |                                                                                                                                       |                                                                                              |                                                                                                                              |                                                                                                    |                                                                                                    |                                                                                                     | <b>34812-408</b>                                                                                     | <b>34812-958</b>                                                                                    |
| 10                                                                                                                                                                    |                                                                                                                                       |                                                                                              |                                                                                                                              |                                                                                                    |                                                                                                    |                                                                                                     | <b>34812-410</b>                                                                                     | <b>34812-960</b>                                                                                    |
| 12                                                                                                                                                                    |                                                                                                                                       |                                                                                              |                                                                                                                              |                                                                                                    |                                                                                                    |                                                                                                     | <b>34812-412</b>                                                                                     | <b>34812-962</b>                                                                                    |
| 14                                                                                                                                                                    | <b>34812-100</b>                                                                                                                      | <b>34812-100</b>                                                                             | <b>34812-300</b>                                                                                                             | <b>34812-300</b>                                                                                   | <b>34812-102</b>                                                                                   | <b>34812-103</b>                                                                                    | <b>34812-414</b>                                                                                     | <b>34812-964</b>                                                                                    |
| 21                                                                                                                                                                    | 1 piece (SPQ 10) <sup>1)</sup>                                                                                                        | 1 piece (SPQ 10) <sup>1)</sup>                                                               |                                                                                                                              |                                                                                                    |                                                                                                    |                                                                                                     | <b>34812-421</b>                                                                                     | <b>34812-971</b>                                                                                    |
| 28                                                                                                                                                                    |                                                                                                                                       |                                                                                              |                                                                                                                              |                                                                                                    |                                                                                                    |                                                                                                     | <b>34812-428</b>                                                                                     | <b>34812-978</b>                                                                                    |
| 42                                                                                                                                                                    |                                                                                                                                       |                                                                                              |                                                                                                                              |                                                                                                    |                                                                                                    |                                                                                                     | <b>34812-442</b>                                                                                     | <b>34812-992</b>                                                                                    |
| PCB depth 220 mm                                                                                                                                                      |                                                                                                                                       |                                                                                              |                                                                                                                              |                                                                                                    |                                                                                                    |                                                                                                     |                                                                                                      |                                                                                                     |
| 8                                                                                                                                                                     |                                                                                                                                       |                                                                                              |                                                                                                                              |                                                                                                    |                                                                                                    |                                                                                                     | <b>34813-408</b>                                                                                     | <b>34813-958</b>                                                                                    |
| 10                                                                                                                                                                    |                                                                                                                                       |                                                                                              |                                                                                                                              |                                                                                                    |                                                                                                    |                                                                                                     | <b>34813-410</b>                                                                                     | <b>34813-960</b>                                                                                    |
| 12                                                                                                                                                                    |                                                                                                                                       |                                                                                              |                                                                                                                              |                                                                                                    |                                                                                                    |                                                                                                     | <b>34813-412</b>                                                                                     | <b>34813-962</b>                                                                                    |
| 14                                                                                                                                                                    | <b>34813-100</b>                                                                                                                      | <b>34813-100</b>                                                                             | <b>34813-300</b>                                                                                                             | <b>34813-300</b>                                                                                   | <b>34813-102</b>                                                                                   | <b>34813-103</b>                                                                                    | <b>34813-414</b>                                                                                     | <b>34813-964</b>                                                                                    |
| 21                                                                                                                                                                    | 1 piece (SPQ 10) <sup>1)</sup>                                                                                                        | 1 piece (SPQ 10) <sup>1)</sup>                                                               |                                                                                                                              |                                                                                                    |                                                                                                    |                                                                                                     | <b>34813-421</b>                                                                                     | <b>34813-971</b>                                                                                    |
| 28                                                                                                                                                                    |                                                                                                                                       |                                                                                              |                                                                                                                              |                                                                                                    |                                                                                                    |                                                                                                     | <b>34813-428</b>                                                                                     | <b>34813-978</b>                                                                                    |
| 42                                                                                                                                                                    |                                                                                                                                       |                                                                                              |                                                                                                                              |                                                                                                    |                                                                                                    |                                                                                                     | <b>34813-442</b>                                                                                     | <b>34813-992</b>                                                                                    |
| <b>6 U Height</b>                                                                                                                                                     |                                                                                                                                       |                                                                                              |                                                                                                                              |                                                                                                    |                                                                                                    |                                                                                                     |                                                                                                      |                                                                                                     |
| PCB depth 160 mm                                                                                                                                                      |                                                                                                                                       |                                                                                              |                                                                                                                              |                                                                                                    |                                                                                                    |                                                                                                     |                                                                                                      |                                                                                                     |
| 8                                                                                                                                                                     |                                                                                                                                       |                                                                                              |                                                                                                                              |                                                                                                    |                                                                                                    |                                                                                                     | <b>34812-408</b>                                                                                     | <b>34812-958</b>                                                                                    |
| 10                                                                                                                                                                    |                                                                                                                                       |                                                                                              |                                                                                                                              |                                                                                                    |                                                                                                    |                                                                                                     | <b>34812-410</b>                                                                                     | <b>34812-960</b>                                                                                    |
| 12                                                                                                                                                                    |                                                                                                                                       |                                                                                              |                                                                                                                              |                                                                                                    |                                                                                                    |                                                                                                     | <b>34812-412</b>                                                                                     | <b>34812-962</b>                                                                                    |
| 14                                                                                                                                                                    | <b>34812-600</b>                                                                                                                      | <b>34812-601</b>                                                                             | –                                                                                                                            | –                                                                                                  | <b>34812-102</b>                                                                                   | <b>34812-603</b>                                                                                    | <b>34812-414</b>                                                                                     | <b>34812-964</b>                                                                                    |
| 21                                                                                                                                                                    | 1 piece (SPQ 5) <sup>1)</sup>                                                                                                         | 1 piece (SPQ 5) <sup>1)</sup>                                                                |                                                                                                                              |                                                                                                    |                                                                                                    |                                                                                                     | <b>34812-421</b>                                                                                     | <b>34812-971</b>                                                                                    |
| 28                                                                                                                                                                    |                                                                                                                                       |                                                                                              |                                                                                                                              |                                                                                                    |                                                                                                    |                                                                                                     | <b>34812-428</b>                                                                                     | <b>34812-978</b>                                                                                    |
| 42                                                                                                                                                                    |                                                                                                                                       |                                                                                              |                                                                                                                              |                                                                                                    |                                                                                                    |                                                                                                     | <b>34812-442</b>                                                                                     | <b>34812-992</b>                                                                                    |
| PCB depth 220 mm                                                                                                                                                      |                                                                                                                                       |                                                                                              |                                                                                                                              |                                                                                                    |                                                                                                    |                                                                                                     |                                                                                                      |                                                                                                     |
| 8                                                                                                                                                                     |                                                                                                                                       |                                                                                              |                                                                                                                              |                                                                                                    |                                                                                                    |                                                                                                     | <b>34813-408</b>                                                                                     | <b>34813-958</b>                                                                                    |
| 10                                                                                                                                                                    |                                                                                                                                       |                                                                                              |                                                                                                                              |                                                                                                    |                                                                                                    |                                                                                                     | <b>34813-410</b>                                                                                     | <b>34813-960</b>                                                                                    |
| 12                                                                                                                                                                    |                                                                                                                                       |                                                                                              |                                                                                                                              |                                                                                                    |                                                                                                    |                                                                                                     | <b>34813-412</b>                                                                                     | <b>34813-962</b>                                                                                    |
| 14                                                                                                                                                                    | <b>34813-600</b>                                                                                                                      | <b>34813-601</b>                                                                             | –                                                                                                                            | –                                                                                                  | <b>34813-102</b>                                                                                   | <b>34813-603</b>                                                                                    | <b>34813-414</b>                                                                                     | <b>34813-964</b>                                                                                    |
| 21                                                                                                                                                                    | 1 piece (SPQ 5) <sup>1)</sup>                                                                                                         | 1 piece (SPQ 5) <sup>1)</sup>                                                                |                                                                                                                              |                                                                                                    |                                                                                                    |                                                                                                     | <b>34813-421</b>                                                                                     | <b>34813-971</b>                                                                                    |
| 28                                                                                                                                                                    |                                                                                                                                       |                                                                                              |                                                                                                                              |                                                                                                    |                                                                                                    |                                                                                                     | <b>34813-428</b>                                                                                     | <b>34813-978</b>                                                                                    |
| 42                                                                                                                                                                    |                                                                                                                                       |                                                                                              |                                                                                                                              |                                                                                                    |                                                                                                    |                                                                                                     | <b>34813-442</b>                                                                                     | <b>34813-992</b>                                                                                    |
| Dimensions see page                                                                                                                                                   | 7.78                                                                                                                                  | 7.78                                                                                         | 7.78                                                                                                                         | 7.78                                                                                               | 7.79                                                                                               | 7.79                                                                                                | 7.82                                                                                                 | 7.82                                                                                                |

1) SPQ (standard pack quantity): Order number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ) Please order at least the SPQ quantity or a multiple thereof  
Order number includes one packaging unit (PU); delivery is exclusively made in PU

**Part number in bold face type: ready for despatch within 2 working days**  
Part number in normal type: ready for despatch within 10 working days

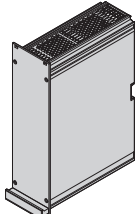
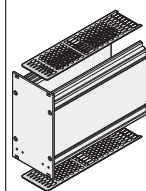
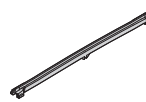
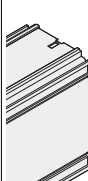
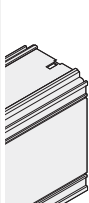
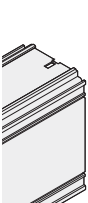
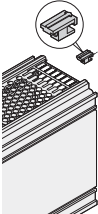


Screw Driver, Torx 8, **64560-026**  
Assembly Tool, Torx 8, **24812-650**

# Frame type plug-in units PRO ServicePLUS

## INDIVIDUAL COMPONENTS

## REAR PANELS, ASSEMBLY MATERIAL

|                                                                                              | With perforation for guide rails                                                              |                                                                                               | Rear panel                                                                                    |                                                                                               |                                                                                                | Rear panel fastener                                                                             | Assembly kit                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                              | Cover plate                                                                                   | Guide rail                                                                                    | Without cut-out                                                                               | Cut-out for one connector                                                                     | Cut-out for multiple connectors                                                                | for connection of rear panel with cover plate                                                   |                                                                                                                                                                                                                                                                                                                                                                       |
| <br>04808124 | <br>04808069 | <br>04808074 | <br>04808073 | <br>04808071 | <br>04808072 | <br>04808123 | For mounting of five 3 U or 6 U frame type plug-in units from ServicePLUS components: Front panel, rear panel, side panel, cover plate and handle, <b>Delivery includes:</b> 40x screw 3x20, Torx, self-tapping; 30x plastic nipples; 30x neck screw M2.5x12.3; 10x fixing clip; 10x pan head screw M2.5x10, Torx, 40 x screw M2,5x6, Torx8 description see page 7.75 |
| Supplied quantity for assembly of 5 frame type plug-in units                                 | 1 piece (SPQ 10) <sup>1)</sup>                                                                | PU 10 pieces                                                                                  | 1 piece (SPQ 5) <sup>1)</sup>                                                                 | 1 piece (SPQ 5) <sup>1)</sup>                                                                 | 1 piece (SPQ 5) <sup>1)</sup>                                                                  | PU 1 kit                                                                                        | PU 1 kit                                                                                                                                                                                                                                                                                                                                                              |
| <b>3 U Height</b>                                                                            |                                                                                               |                                                                                               |                                                                                               |                                                                                               |                                                                                                |                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                       |
| PCB depth 160 mm                                                                             |                                                                                               |                                                                                               |                                                                                               |                                                                                               |                                                                                                |                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                       |
| 8                                                                                            | <b>34812-908</b>                                                                              | <b>24812-101</b>                                                                              | <b>34813-208</b>                                                                              | <b>34812-208</b>                                                                              | <b>34812-308</b>                                                                               | <b>24812-401</b>                                                                                | <b>24812-100</b>                                                                                                                                                                                                                                                                                                                                                      |
| 10                                                                                           | <b>34812-910</b>                                                                              |                                                                                               | <b>34813-210</b>                                                                              | <b>34812-210</b>                                                                              | <b>34812-310</b>                                                                               |                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                       |
| 12                                                                                           | <b>34812-912</b>                                                                              |                                                                                               | <b>34813-212</b>                                                                              | <b>34812-212</b>                                                                              | <b>34812-312</b>                                                                               |                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                       |
| 14                                                                                           | <b>34812-914</b>                                                                              |                                                                                               | <b>34813-214</b>                                                                              | <b>34812-214</b>                                                                              | <b>34812-314</b>                                                                               |                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                       |
| 21                                                                                           | <b>34812-921</b>                                                                              |                                                                                               | <b>34813-221</b>                                                                              | <b>34812-221</b>                                                                              | <b>34812-321</b>                                                                               |                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                       |
| 28                                                                                           | <b>34812-928</b>                                                                              |                                                                                               | <b>34813-228</b>                                                                              | <b>34812-228</b>                                                                              | <b>34812-328</b>                                                                               |                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                       |
| 42                                                                                           | <b>34812-942</b>                                                                              |                                                                                               | <b>34813-242</b>                                                                              | <b>34812-242</b>                                                                              | <b>34812-342</b>                                                                               |                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                       |
| PCB depth 220 mm                                                                             |                                                                                               |                                                                                               |                                                                                               |                                                                                               |                                                                                                |                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                       |
| 8                                                                                            | <b>34813-908</b>                                                                              | <b>24812-101</b>                                                                              | <b>34813-208</b>                                                                              | <b>34812-208</b>                                                                              | <b>34812-308</b>                                                                               | <b>24812-401</b>                                                                                | <b>24812-100</b>                                                                                                                                                                                                                                                                                                                                                      |
| 10                                                                                           | <b>34813-910</b>                                                                              |                                                                                               | <b>34813-210</b>                                                                              | <b>34812-210</b>                                                                              | <b>34812-310</b>                                                                               |                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                       |
| 12                                                                                           | <b>34813-912</b>                                                                              |                                                                                               | <b>34813-212</b>                                                                              | <b>34812-212</b>                                                                              | <b>34812-312</b>                                                                               |                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                       |
| 14                                                                                           | <b>34813-914</b>                                                                              |                                                                                               | <b>34813-214</b>                                                                              | <b>34812-214</b>                                                                              | <b>34812-314</b>                                                                               |                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                       |
| 21                                                                                           | <b>34813-921</b>                                                                              |                                                                                               | <b>34813-221</b>                                                                              | <b>34812-221</b>                                                                              | <b>34812-321</b>                                                                               |                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                       |
| 28                                                                                           | <b>34813-928</b>                                                                              |                                                                                               | <b>34813-228</b>                                                                              | <b>34812-228</b>                                                                              | <b>34812-328</b>                                                                               |                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                       |
| 42                                                                                           | <b>34813-942</b>                                                                              |                                                                                               | <b>34813-242</b>                                                                              | <b>34812-242</b>                                                                              | <b>34812-342</b>                                                                               |                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                       |
| <b>6 U Height</b>                                                                            |                                                                                               |                                                                                               |                                                                                               |                                                                                               |                                                                                                |                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                       |
| PCB depth 160 mm                                                                             |                                                                                               |                                                                                               |                                                                                               |                                                                                               |                                                                                                |                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                       |
| 8                                                                                            | <b>34812-908</b>                                                                              | <b>24812-101</b>                                                                              | <b>34813-708</b>                                                                              | <b>34812-708</b>                                                                              | <b>34812-808</b>                                                                               | <b>24812-401</b>                                                                                | <b>24812-100</b>                                                                                                                                                                                                                                                                                                                                                      |
| 10                                                                                           | <b>34812-910</b>                                                                              |                                                                                               | <b>34813-710</b>                                                                              | <b>34812-710</b>                                                                              | <b>34812-810</b>                                                                               |                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                       |
| 12                                                                                           | <b>34812-912</b>                                                                              |                                                                                               | <b>34813-712</b>                                                                              | <b>34812-712</b>                                                                              | <b>34812-812</b>                                                                               |                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                       |
| 14                                                                                           | <b>34812-914</b>                                                                              |                                                                                               | <b>34813-714</b>                                                                              | <b>34812-714</b>                                                                              | <b>34812-814</b>                                                                               |                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                       |
| 21                                                                                           | <b>34812-921</b>                                                                              |                                                                                               | <b>34813-721</b>                                                                              | <b>34812-721</b>                                                                              | <b>34812-821</b>                                                                               |                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                       |
| 28                                                                                           | <b>34812-928</b>                                                                              |                                                                                               | <b>34813-728</b>                                                                              | <b>34812-728</b>                                                                              | <b>34812-828</b>                                                                               |                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                       |
| 42                                                                                           | <b>34812-942</b>                                                                              |                                                                                               | <b>34813-742</b>                                                                              | <b>34812-742</b>                                                                              | <b>34812-842</b>                                                                               |                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                       |
| PCB depth 220 mm                                                                             |                                                                                               |                                                                                               |                                                                                               |                                                                                               |                                                                                                |                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                       |
| 8                                                                                            | <b>34813-908</b>                                                                              | <b>24812-101</b>                                                                              | <b>34813-708</b>                                                                              | <b>34812-708</b>                                                                              | <b>34812-808</b>                                                                               | <b>24812-401</b>                                                                                | <b>24812-100</b>                                                                                                                                                                                                                                                                                                                                                      |
| 10                                                                                           | <b>34813-910</b>                                                                              |                                                                                               | <b>34813-710</b>                                                                              | <b>34812-710</b>                                                                              | <b>34812-810</b>                                                                               |                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                       |
| 12                                                                                           | <b>34813-912</b>                                                                              |                                                                                               | <b>34813-712</b>                                                                              | <b>34812-712</b>                                                                              | <b>34812-812</b>                                                                               |                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                       |
| 14                                                                                           | <b>34813-914</b>                                                                              |                                                                                               | <b>34813-714</b>                                                                              | <b>34812-714</b>                                                                              | <b>34812-814</b>                                                                               |                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                       |
| 21                                                                                           | <b>34813-921</b>                                                                              |                                                                                               | <b>34813-721</b>                                                                              | <b>34812-721</b>                                                                              | <b>34812-821</b>                                                                               |                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                       |
| 28                                                                                           | <b>34813-928</b>                                                                              |                                                                                               | <b>34813-728</b>                                                                              | <b>34812-728</b>                                                                              | <b>34812-828</b>                                                                               |                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                       |
| 42                                                                                           | <b>34813-942</b>                                                                              |                                                                                               | <b>34813-742</b>                                                                              | <b>34812-742</b>                                                                              | <b>34812-842</b>                                                                               |                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                       |
| Dimensions see page                                                                          | 7.82                                                                                          | 7.82                                                                                          | 7.81                                                                                          | 7.81                                                                                          | 7.81                                                                                           |                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                       |

1) SPQ (standard pack quantity): Order number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ) Please order at least the SPQ quantity or a multiple thereof  
Order number includes one packaging unit (PU); delivery is exclusively made in PU

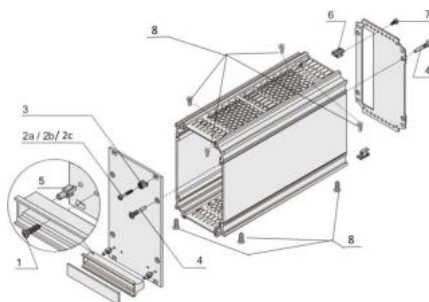


Screw Driver, Torx 8, **64560-026**  
Assembly Tool, Torx 8, **24812-650**

107888226

110434981

# Frame type plug-in units PRO ServicePLUS

**SCHROFF**
**INDIVIDUAL COMPONENTS**
**FIXING MATERIAL (100 PIECES)**


04808085

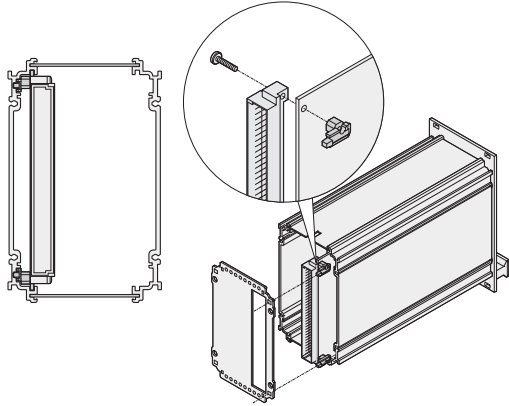
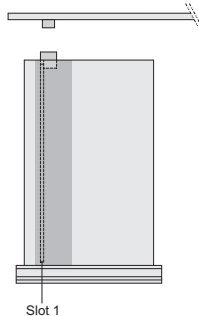
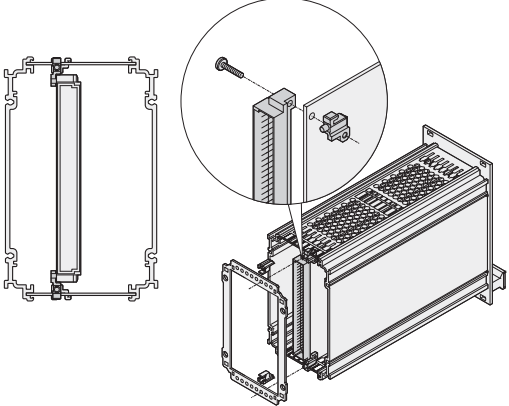
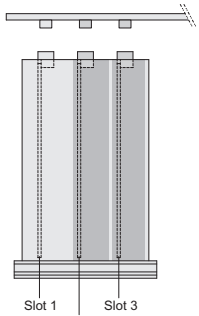
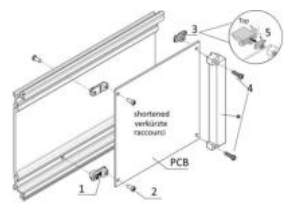
| Fixing parts                                                          | Item |                                                                                     | Required quantity per plug-in unit | Description                                                                                | Qty/PU  | Part No.         |
|-----------------------------------------------------------------------|------|-------------------------------------------------------------------------------------|------------------------------------|--------------------------------------------------------------------------------------------|---------|------------------|
| <b>Fixing parts for mounting the module in subrack or case</b>        |      |                                                                                     |                                    |                                                                                            |         |                  |
| Torx panhead screw, M2.5 x 10, St, zinc-plated, self-forming thread   | 1    |    | 2                                  | Assembly of handle on front panel                                                          | 100     | <b>24560-179</b> |
| Collar screws pozidrive/slot (Philips) M2.5 x 12.3, St, nickel-plated | 2a   |    | 4 / 6*                             | Mounting of front panel on horizontal rail                                                 | 100     | <b>21102-026</b> |
| Slotted Pozidrive collar screw M2.5 x 12.3, St, nickel-plated         | 2b   |   | 4 / 6*                             | Mounting of front panel on horizontal rail                                                 | 100     | <b>21101-101</b> |
| Torx 8, collar screw M2.5 x 12.3, St, nickel-plated                   | 2c   |  | 4 / 6*                             | Mounting of front panel on horizontal rail                                                 | 100     | <b>21101-782</b> |
| Plastic sleeves for form hole 5.9 x 3.3, PA, UL 94 V-2, grey          | 3    |  | 4 / 6*<br>( 6* = 42HP)             | Is needed to fix collar screws                                                             | 100     | <b>21100-464</b> |
| <b>Fixing parts for mounting the module (Frame Type PIU)</b>          |      |                                                                                     |                                    |                                                                                            |         |                  |
| Torx raised countersunk panhead screw, T8 3 x 20, St, nickel-plated   | 4    |  | 8                                  | Assembly of front panel and rear panel on extruded side panel/rear extrusion of side panel | 100     | <b>24812-501</b> |
| Fixing clip for trapeziform plastic handle PPE UL 94 V-0, black       | 5    |  | 2                                  | Alignment aid for handle on front panel                                                    | 100     | <b>21101-239</b> |
| Rear panel fastener Zn die-cast                                       | 6    |  | 2                                  | To stabilise rear panel with wide frame-type plug-in units                                 | 100     | <b>24812-402</b> |
| Torx panhead screw, T8 M2.5 x 10, St, nickel-plated                   | 7    |  | 2                                  | To fix rear panel fastener or board fixing                                                 | 100     | <b>24560-148</b> |
| Torx panhead screw, T8 M2.5 x 5, St, nickel-plated                    | 8    |  | 8                                  | To fix the screw-on top covers to the side panels                                          | 100     | <b>24812-751</b> |
| Board support (slot 1) Zn die-cast                                    |      |  | 2                                  | Board support (slot 1) see page 7.76                                                       | 50 Pair | <b>24812-202</b> |
| Board support (from slot 2) Zn die-cast                               |      |  | 2                                  | Board support (from slot 2) see page 7.76                                                  | 50 Pair | <b>24812-302</b> |
| Torx panhead screw, T8 M2.5 x 6, St, nickel-plated                    |      |  | 2                                  | is needed for board fixing without connector see page 7.76                                 | 100     | <b>24560-178</b> |
| Torx T8, Screw driver                                                 |      |  | 1                                  |                                                                                            |         | <b>64560-026</b> |
| Torx T8, -Assembly tool                                               |      |  | 1                                  |                                                                                            |         | <b>24812-650</b> |

Further collar screws and sleeves see page 7.107

# Frame type plug-in units PRO ServicePLUS

## INDIVIDUAL COMPONENTS

## BOARD FIXING

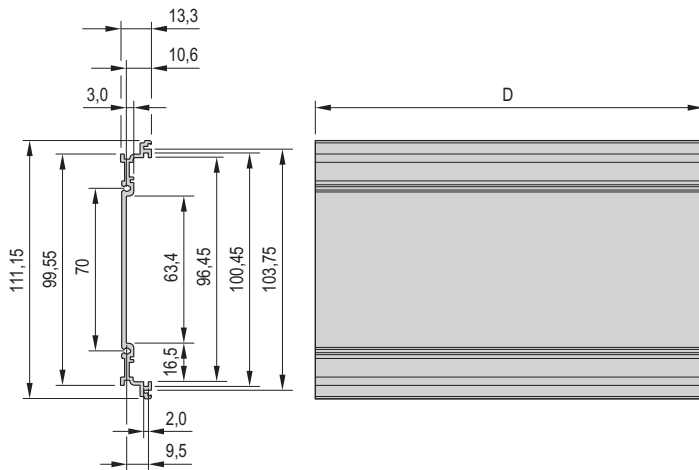
|                                                                                                                                                                                                                                                                                                                               | Board fixing slot 1                                                                                                                                                                                                                                                                                                                                                                          |  | Board fixing from slot 2                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                               |   <p>Slot 1</p> <p>04808118 04808109 04808129</p> <p>Zn die-cast, Torx panhead screw M2.5 x 10;<br/>PCB is pushed into the guiding groove of the left side panel/<br/>side panel rear angle, is fixed with rear panel</p> |  |   <p>Slot 1 Slot 2 Slot 3</p> <p>04808119 04808110 bga42785 kaa46417</p> <p>With connector from slot 2</p> <p>Without connector from slot 2</p> <p>Zn die-cast, Torx panhead screw M2.5 x 10;<br/>PCB is pushed into guide rail,<br/>is fixed with rear panel</p> |                                                                                                                         |
| Height                                                                                                                                                                                                                                                                                                                        | PU 5 pair                                                                                                                                                                                                                                                                                                                                                                                    |  | PU 5 pair                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                         |
| 3 U + 6 U                                                                                                                                                                                                                                                                                                                     | <b>24812-201</b>  <p>135484119</p>                                                                                                                                                                                                                                                                        |  | <b>24812-301</b>                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                         |
| <b>Assembly kits</b>                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                              |  | With connector from slot 2                                                                                                                                                                                                                                                                                                                                                                                                             | Without connector from slot 2                                                                                           |
| Torx panhead screw, M2.5 x 6, St, nickel-plated, PU 100 pieces;<br>is needed for board fixing without connector                                                                                                                                                                                                               | <b>24560-178</b>  <p>136404292</p>                                                                                                                                                                                                                                                                        |  | —                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>24560-178</b>  <p>136404292</p> |
| Connector mounting on PCB, for 6 U frame type plug-in units (centre)<br>Torx panhead screw M2.5 x 10, nut M2.5; PU 10 pieces (screw + nut)                                                                                                                                                                                    | <b>24812-600</b>  <p>04808120</p>                                                                                                                                                                                                                                                                         |  | <b>24812-600</b>                                                                                                                                                                                                                                                                                                                                  |                                                                                                                         |
| To fix a shortened PCB to slot 1 (side panel profile) the die-cast holder can be used.<br>10 x die-cast holder (1), 20 x screw M2.5 x 7, 5 (2) x PCB fixation, 10 x (3) screw M2.5 x 10 (4), 1x mounting tool (5)<br><b>Please note:</b><br>2 or 4 holes must be drilled in the side panel depending on the depth of the PCB. | <b>24812-750</b>  <p>134121025</p>                                                                                                                                                                                                                                                                        |  | <b>Remark:</b><br>The screw connection with kit 24812-750 makes an electrically conductive connection between the side wall of the cassette and the printed circuit board (PCB).                                                                                                                                                                                                                                                       |                                                                                                                         |

# Frame type plug-in units PRO

## DIMENSIONS

## SIDE PANEL

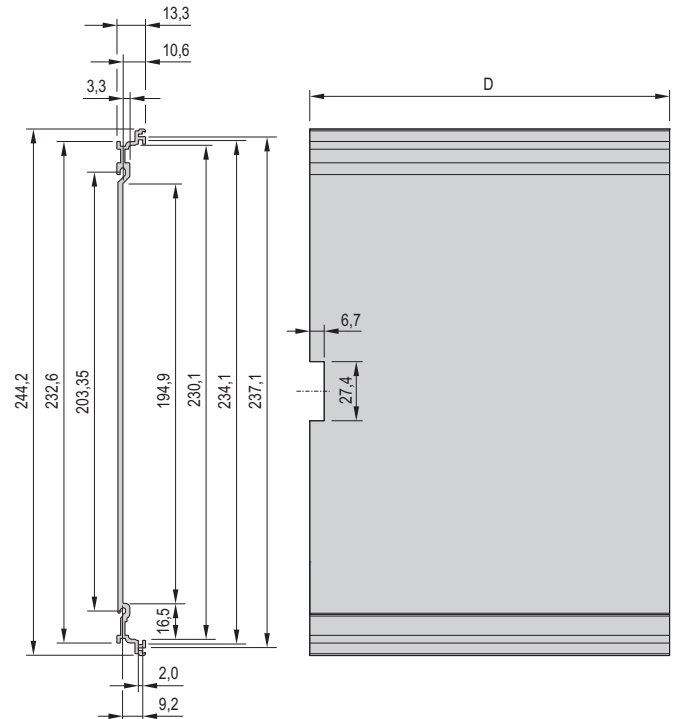
3 U



Depth = 167/227 mm

04808101

6 U

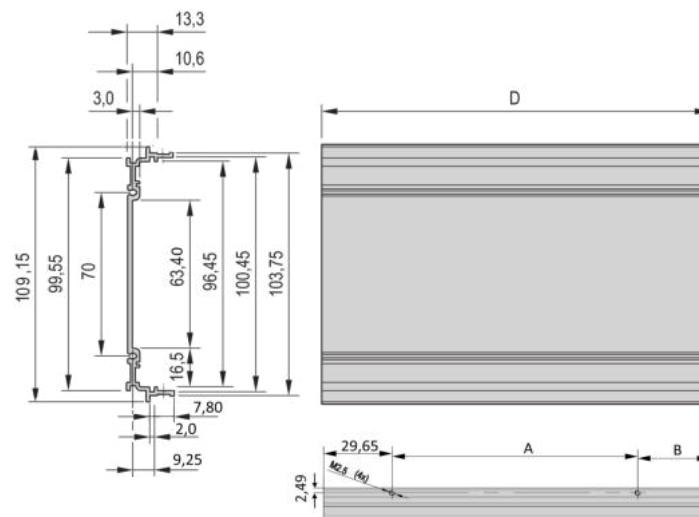


04808102

## DIMENSIONS

## SIDE PANEL WITH SCREW ON OPTION

3 U



134397199

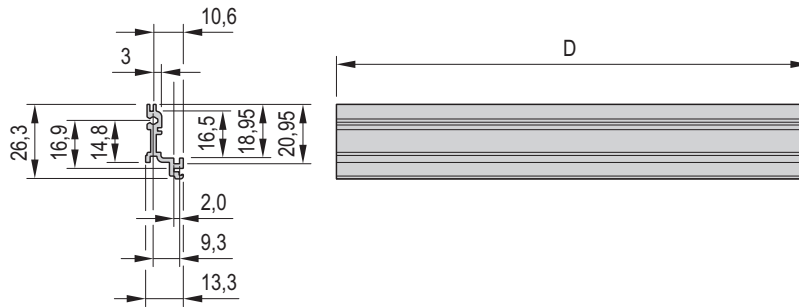
| D   | A      | B     |
|-----|--------|-------|
| 167 | 106,10 | 31,15 |
| 227 | 170,65 | 26,60 |

Depth = 167/227 mm

# Frame type plug-in units PRO

## DIMENSIONS

## SIDE PANEL REAR ANGLE

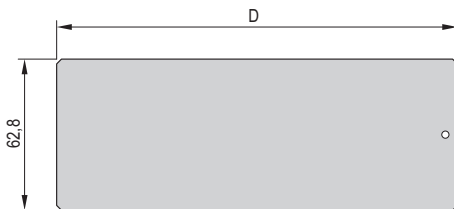


Depth = 167/227 mm

04808103

## DIMENSIONS

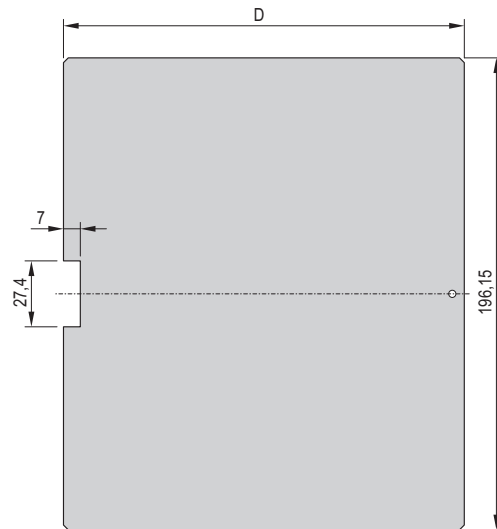
## SIDE PLATE



3 U for side panel rear angle

04808100

6



6 U for side panel rear angle

04808099

## Frame type plug-in units PRO

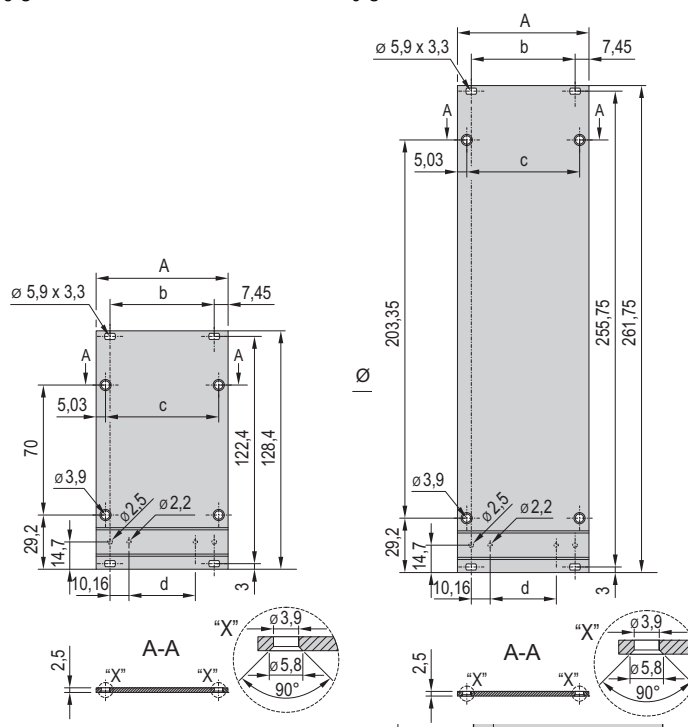
## DIMENSIONS

## FRONT PANELS

Unshielded

3 U

6 U



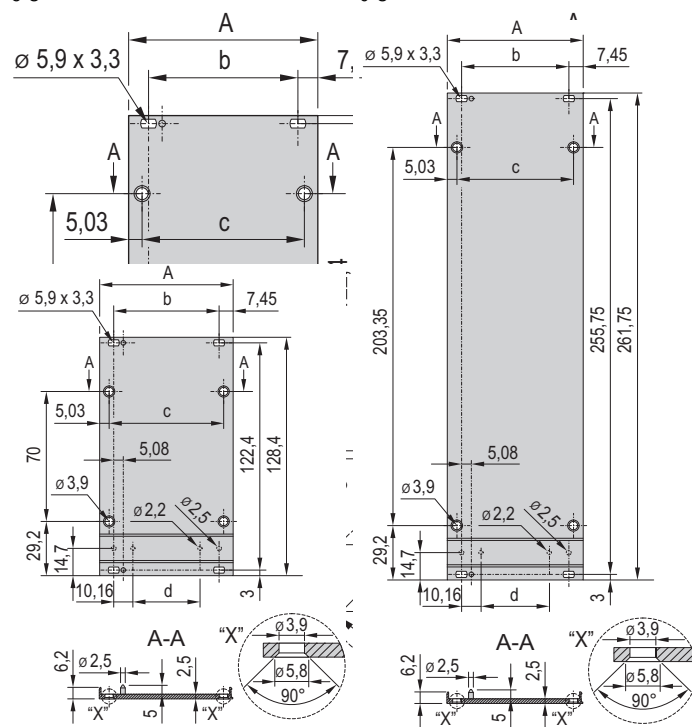
04808086

04808087

Shieldable, for EMC textile gasket

3 U

6 U



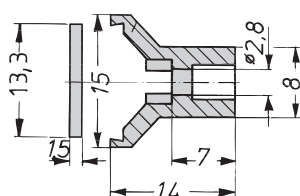
04808088

04808089

|       | A      | b      | c      | d      |
|-------|--------|--------|--------|--------|
| Width | mm     | mm     | mm     | mm     |
| 8 HP  | 40.30  | 25.40  | 30.24  | 5.08   |
| 10 HP | 50.46  | 35.56  | 40.40  | 15.24  |
| 12 HP | 60.62  | 45.72  | 50.56  | 25.40  |
| 14 HP | 70.78  | 55.88  | 60.72  | 35.56  |
| 21 HP | 106.34 | 91.44  | 96.28  | 71.12  |
| 28 HP | 141.90 | 127.00 | 131.84 | 106.68 |
| 42 HP | 213.02 | 198.12 | 202.96 | 177.80 |

## DIMENSIONS

## FRONT HANDLE



A4-328e

## Dimensions table

| Width<br>HP | Width<br>mm |
|-------------|-------------|
| 8 HP        | 39.2        |
| 10 HP       | 49.4        |
| 12 HP       | 59.6        |
| 14 HP       | 69.7        |
| 21 HP       | 105.2       |
| 28 HP       | 140.8       |
| 42 HP       | 212.0       |

# Frame type plug-in units PRO

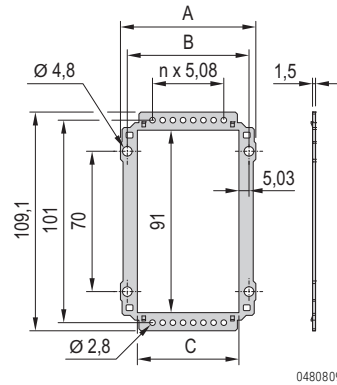
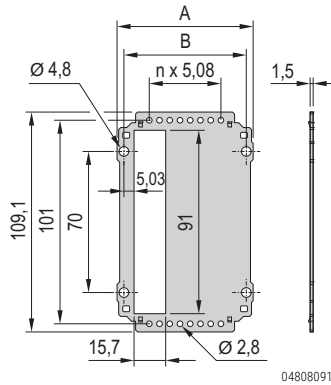
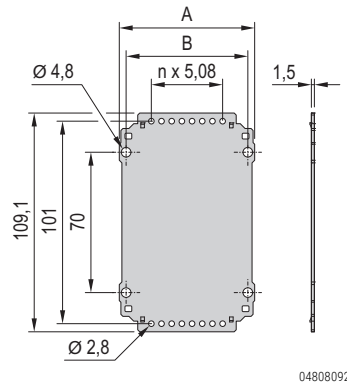
## DIMENSIONS

### REAR PANEL 3 U

Without cut-out

For one connector

For multiple connectors



Dimensions table

|       | A      | B      | C      | n  |
|-------|--------|--------|--------|----|
| HP    | mm     | mm     | mm     |    |
| 8 HP  | 37.04  | 30.24  | 20.18  | 1  |
| 10 HP | 47.20  | 40.40  | 30.34  | 3  |
| 12 HP | 57.36  | 50.56  | 40.50  | 5  |
| 14 HP | 67.52  | 60.72  | 50.66  | 7  |
| 21 HP | 103.08 | 96.28  | 86.22  | 14 |
| 28 HP | 138.64 | 131.84 | 121.78 | 21 |
| 42 HP | 209.76 | 202.96 | 192.90 | 35 |

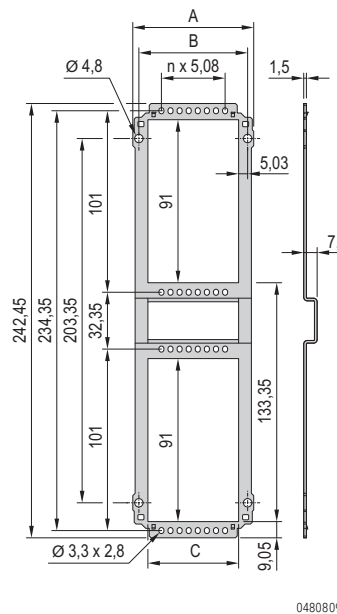
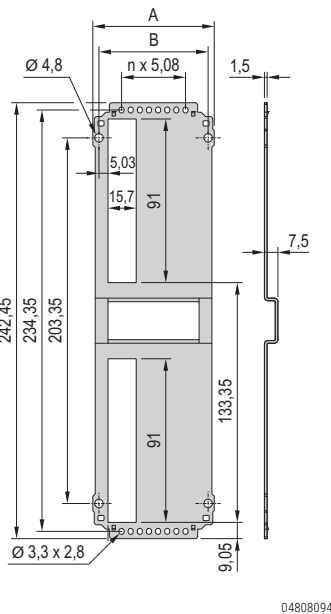
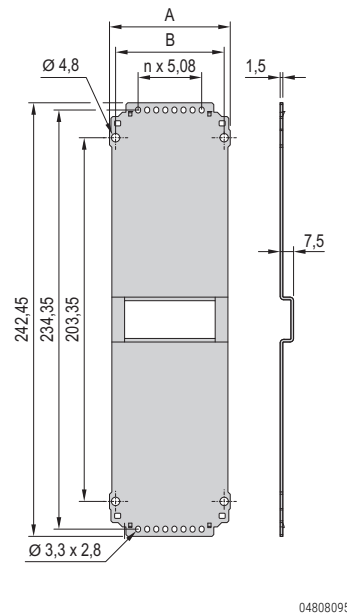
## DIMENSIONS

### REAR PANEL 6 U

Without cut-out

For one connector

For multiple connectors



Dimensions table

|       | A      | B      | C      | n  |
|-------|--------|--------|--------|----|
| HP    | mm     | mm     | mm     |    |
| 8 HP  | 37.04  | 30.24  | 20.18  | 1  |
| 10 HP | 47.20  | 40.40  | 30.34  | 3  |
| 12 HP | 57.36  | 50.56  | 40.50  | 5  |
| 14 HP | 67.52  | 60.72  | 50.66  | 7  |
| 21 HP | 103.08 | 96.28  | 86.22  | 14 |
| 28 HP | 138.64 | 131.84 | 121.78 | 21 |
| 42 HP | 209.76 | 202.96 | 192.90 | 35 |

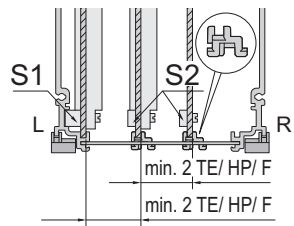


# Frame type plug-in units PRO

## DIMENSIONS

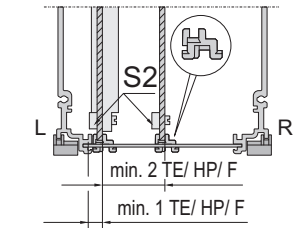
## MOUNTING INSTRUCTIONS FOR GUIDE RAILS IN FRAME TYPE PLUG-IN UNITS

Slot 1 + slot 2



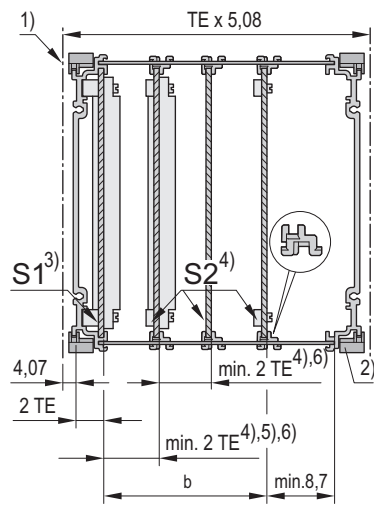
04809050

Slot 2



04809051

Front view



04808107

- Mounting pitch for guide rails: 1 HP
- Min. distance between 2 guide rails: 2 HP

| Width of frame type<br>plug-in unit<br>HP | b<br>mm | Max. number of PCBs mountable |             |
|-------------------------------------------|---------|-------------------------------|-------------|
|                                           |         | slot 1                        | from slot 2 |
| 8                                         | –       | 1                             | 1           |
|                                           | 5.08    | –                             | 1 5)        |
| 10                                        | 10.16   | 1                             | 1 6)        |
|                                           | 15.24   | –                             | 2 5) 6)     |
| 12                                        | 20.32   | 1                             | 2 6)        |
|                                           | 25.40   | –                             | 3 5) 6)     |
| 14                                        | 30.48   | 1                             | 3 6)        |
|                                           | 35.56   | –                             | 4 5) 6)     |
| 21                                        | 71.12   | 1                             | 7 6)        |
|                                           | 66.04   | –                             | 7 5) 6)     |
| 28                                        | 101.60  | 1                             | 10 6)       |
|                                           | 106.68  | –                             | 11 5) 6)    |
| 42                                        | 172.72  | 1                             | 17 6)       |
|                                           | 177.80  | –                             | 18 5) 6)    |

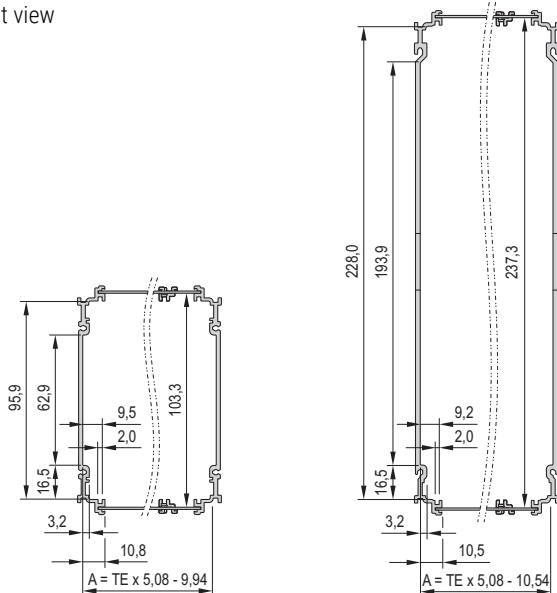
TE = HP = F

- 1) Division line
- 2) Guide rail rotated by 180° from standard position
- 3) The first PCB is held in the extruded side panel, corresponds to standard position (slot 1)
- 4) All additional PCBs are fitted into guide rails (from slot 2)
- 5) Min. 1 HP where slot 1 is not used (slot 2)
- 6) Dependent on construction of connector used (not every connector allows a 2 HP fitting)

## DIMENSIONS

## MOUNTING SPACE FRAME-TYPE PLUG-IN UNIT 3 U/6 U

Front view



04808097

04808098

### DIMENSIONS TABLE

| Height<br>U | Width<br>HP | A<br>mm |
|-------------|-------------|---------|
| 3           | 8           | 30.70   |
| 3           | 10          | 40.86   |
| 3           | 12          | 51.02   |
| 3           | 14          | 61.18   |
| 3           | 21          | 96.74   |
| 3           | 28          | 132.30  |
| 3           | 42          | 203.42  |
| 6           | 8           | 30.10   |
| 6           | 10          | 40.26   |
| 6           | 12          | 50.42   |
| 6           | 14          | 60.58   |
| 6           | 21          | 96.14   |
| 6           | 28          | 131.70  |
| 6           | 42          | 202.82  |

# Frame type plug-in units PRO with hood

## FRAME TYPE PLUG-IN UNITS PRO WITH HOOD, 3/6 U, FRONT PANEL SHIELDED (TEXTILE GASKET)



130961454



130961515

- Protects a PCB against mechanical damage and deflects electrostatic discharge; for euroboard formats
- Suitable in all subracks and these cases: ratiopacPRO/-air, propacPRO and compacPRO
- Useable connectors in accordance with EN 60603-2 (DIN 41612)
- 2 depths, for 160 mm and 220 mm boards

### DELIVERY COMPRISES (kit)

| Item | Qty | Description                                                                               |
|------|-----|-------------------------------------------------------------------------------------------|
| 1    | 1   | Front panel, U profile, 2.5 mm, front anodised, rear conductive, alignment pin pressed-in |
| 2    | 1   | Handle, grey, (RAL 7035), PC, UL 94 V0, EN 45545-2, R22-R24, HL3                          |
| 3    | 1   | Side panel, Al extrusion, colourless passivated, with groove for one PCB                  |
| 4    | 1   | Hood, Al, 1 mm, with perforation, rear panel integrated                                   |
| 5    | 1   | EMC textile gasket                                                                        |
| 6    | 1   | Assembly kit (*) (incl. PCB fixing for slot 1)                                            |



107888226

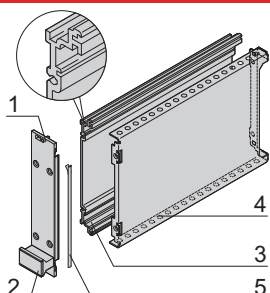
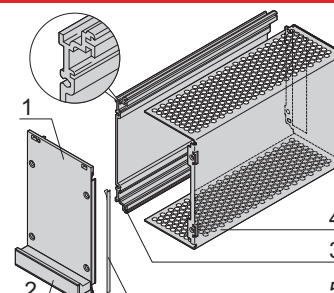
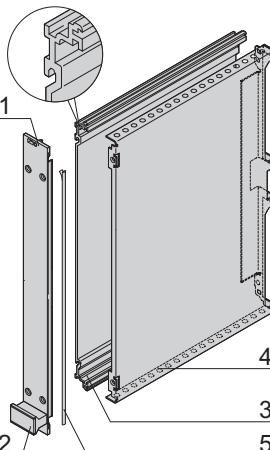
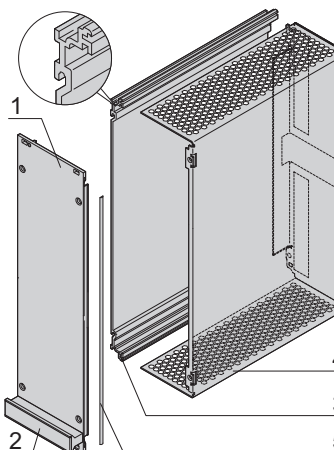


110434981

Screw Driver, Torx 8, **64560-026**  
Assembly Tool, Torx 8, **24812-650**

Illustration shows 10HP / 7 HP width, side panel depth 167 mm

### ORDER INFORMATION

| 5 HP                                                                                | 6 ... 14 HP                                                                         | Height U | Width HP | Depth = 167 mm Part no. | Depth = 227 mm Part no. |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------|----------|-------------------------|-------------------------|
|  |  | 3        | 5        | <b>24813-005</b>        | <b>24813-055</b>        |
|                                                                                     |                                                                                     | 3        | 6        | <b>24813-006</b>        | <b>24813-056</b>        |
|                                                                                     |                                                                                     | 3        | 7        | <b>24813-007</b>        | <b>24813-057</b>        |
|                                                                                     |                                                                                     | 3        | 10       | <b>24813-010</b>        | <b>24813-060</b>        |
|                                                                                     |                                                                                     | 3        | 12       | <b>24813-012</b>        | <b>24813-062</b>        |
|                                                                                     |                                                                                     | 3        | 14       | <b>24813-014</b>        | <b>24813-064</b>        |
|  |  | 6        | 5        | <b>24813-505</b>        | <b>24813-555</b>        |
|                                                                                     |                                                                                     | 6        | 6        | <b>24813-506</b>        | <b>24813-556</b>        |
|                                                                                     |                                                                                     | 6        | 7        | <b>24813-507</b>        | <b>24813-557</b>        |
|                                                                                     |                                                                                     | 6        | 10       | <b>24813-510</b>        | <b>24813-560</b>        |
|                                                                                     |                                                                                     | 6        | 12       | <b>24813-512</b>        | <b>24813-562</b>        |
|                                                                                     |                                                                                     | 6        | 14       | <b>24813-514</b>        | <b>24813-564</b>        |

EMC gasket stainless steel, for U-shaped front panel

1 Kit, 3U, 10pcs **21102-105**

1 Kit, 6U, 10pcs **21102-107**

- Dimension drawings see from page 7.89

# Frame type plug-in units PRO with hood

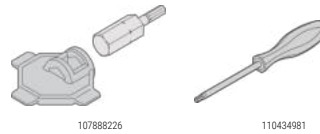
## PLUG-IN UNITS PRO WITH HOOD, 3/6 U, FRONT PANEL UNSHIELDED



- Protects a PCB against mechanical damage and deflects electrostatic discharge; for euroboard formats
- Suitable in all subracks and these cases: ratiopacPRO/-air, propacPRO and compacPRO
- Useable connectors in accordance with EN 60603-2 (DIN 41612)
- 2 depths, for 160 mm or 220 mm board

### DELIVERY COMPRISES (kit)

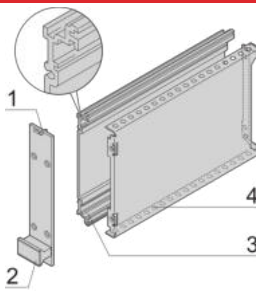
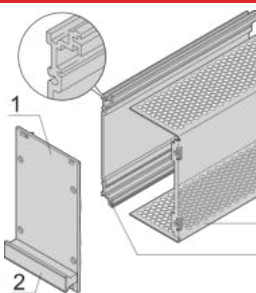
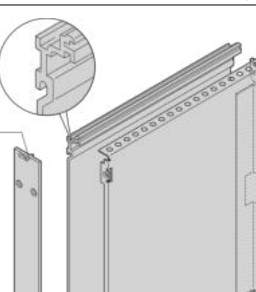
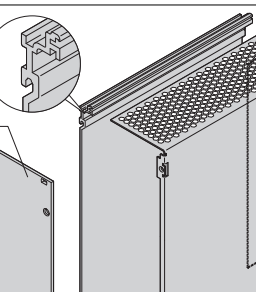
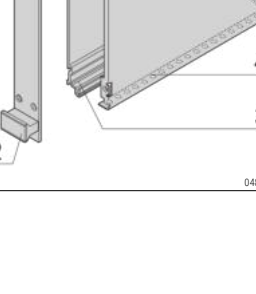
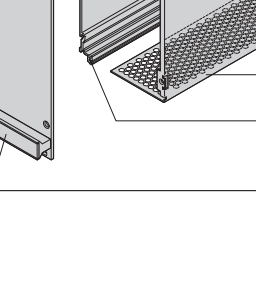
| Item | Qty | Description                                                              |
|------|-----|--------------------------------------------------------------------------|
| 1    | 1   | Front panel, Al, 2.5 mm, anodised, cut edges plain                       |
| 2    | 1   | Handle, grey, (RAL 7035), PC, UL 94 V0, EN 45545-2, R22-R24, HL3         |
| 3    | 1   | Side panel, Al extrusion, colourless passivated, with groove for one PCB |
| 4    | 1   | Hood, Al, 1 mm, with perforation, rear panel integrated                  |
| 5    | 1   | Assembly kit (*) (incl. PCB fixing for slot 1)                           |



Screw Driver, Torx 8, **64560-026**  
Assembly Tool, Torx 8, **24812-650**

Illustration shows 10HP / 7 HP width, side panel depth 167 mm

### ORDER INFORMATION

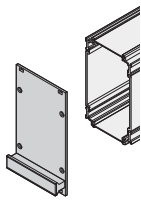
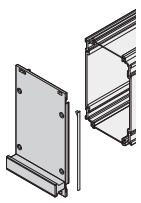
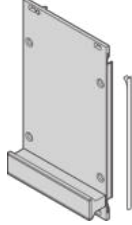
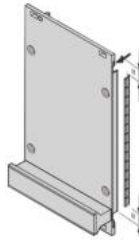
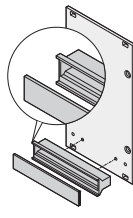
| 5 HP                                                                               | 6 ... 14 HP                                                                         | Height U | Width HP | Depth = 167 mm Part no. | Depth = 227 mm Part no. |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------|----------|-------------------------|-------------------------|
|  |  | 3        | 5        | <b>24812-005</b>        | <b>24812-055</b>        |
|                                                                                    |                                                                                     | 3        | 6        | <b>24812-006</b>        | <b>24812-056</b>        |
|                                                                                    |                                                                                     | 3        | 7        | <b>24812-007</b>        | <b>24812-057</b>        |
|                                                                                    |                                                                                     | 3        | 10       | <b>24812-010</b>        | <b>24812-060</b>        |
|                                                                                    |                                                                                     | 3        | 12       | <b>24812-012</b>        | <b>24812-062</b>        |
|  |  | 3        | 14       | <b>24812-014</b>        | <b>24812-064</b>        |
|                                                                                    |                                                                                     | 6        | 5        | <b>24812-505</b>        | <b>24812-555</b>        |
|                                                                                    |                                                                                     | 6        | 6        | <b>24812-506</b>        | <b>24812-556</b>        |
|                                                                                    |                                                                                     | 6        | 7        | <b>24812-507</b>        | <b>24812-557</b>        |
|                                                                                    |                                                                                     | 6        | 10       | <b>24812-510</b>        | <b>24812-560</b>        |
|  |  | 6        | 12       | <b>24812-512</b>        | <b>24812-562</b>        |
|                                                                                    |                                                                                     | 6        | 14       | <b>24812-514</b>        | <b>24812-564</b>        |

- Dimension drawings see from page 7.89

# Frame type plug-in units PRO ServicePLUS

## INDIVIDUAL COMPONENTS

## FRONT PANELS, FRONT HANDLES

|                                                                                                                                                                                                                                                                                             | Front panel                                                                                                                                                                     | Shieldable front panel, U profile                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                           |                  |                                                                                                                                                                                                                                | Trapeziform handle, grey (without extraction function) |                                                                                                                                                                                                                                                                                                                                             |                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
|                                                                                                                                                                                                                                                                                             | unshielded                                                                                                                                                                      | Front panel                                                                                                                                                                                  | EMC shielding - textile, for front panel and 19" bracket/rear profile                                                                                                                                                                                                                                                     |                  | EMC shielding - stainless steel, for front panel and 19" bracket/rear profile                                                                                                                                                  |                                                        | Grey                                                                                                                                                                                                                                                                                                                                        | Black                         |
| <div><br/>130961413</div> <div><br/>130961515</div> <div>Supplied quantity for assembly of 5 frame type plug-in units</div> | <div><br/>04808060</div> <div>Al, 2.5 mm, front anodized, rear anodized, cut edges blank</div> | <div><br/>04808061</div> <div>Al extrusion, alignment pin pressed-in, front anodised, rear conductive</div> | <div><br/>04808062</div> <div>always fixed laterally on the front panel, in the groove of the profile, textile gasket, core: foam, TPE foam; sleeve: textile cladding with CuNi coating, UL 94 V-0 temperature range -40 ... 70 °C</div> |                  | <div></div> <div>Easy mounting by clipping the gasket onto the right front panel bracket</div> <div>temperature range -200 ... +160 °C</div> |                                                        | <div><br/>04808063</div> <div>Handle: PC, UL 94 V0; EN 45545-2, R22- R24, HL3 identification plate: Al, 1.5 mm, anodised, cut edges plain; please order clip separately (included in mounting kit for five plug-in units or individual parts) 7.75</div> |                               |
|                                                                                                                                                                                                                                                                                             | 1 piece (SPQ 5) <sup>1)</sup>                                                                                                                                                   | 1 piece (SPQ 5) <sup>1)</sup>                                                                                                                                                                | Temperature range -40... +70 °C<br>PU 10 pieces    PU 100 pieces                                                                                                                                                                                                                                                          |                  | Temperature range -200... +160 °C<br>PU 10 pieces    PU 100 pieces                                                                                                                                                             |                                                        | 1 piece (SPQ 5) <sup>1)</sup>                                                                                                                                                                                                                                                                                                               | 1 piece (SPQ 5) <sup>1)</sup> |
| <b>3 U Height</b>                                                                                                                                                                                                                                                                           |                                                                                                                                                                                 |                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                           |                  |                                                                                                                                                                                                                                |                                                        |                                                                                                                                                                                                                                                                                                                                             |                               |
| PCB depth 160 mm                                                                                                                                                                                                                                                                            |                                                                                                                                                                                 |                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                           |                  |                                                                                                                                                                                                                                |                                                        |                                                                                                                                                                                                                                                                                                                                             |                               |
| 5                                                                                                                                                                                                                                                                                           | <b>34812-105</b>                                                                                                                                                                | <b>34813-105</b>                                                                                                                                                                             | <b>21101-853</b>                                                                                                                                                                                                                                                                                                          | <b>21101-854</b> | <b>21102-105</b>                                                                                                                                                                                                               | <b>21102-106</b>                                       | <b>20808-003</b>                                                                                                                                                                                                                                                                                                                            | <b>20808-080</b>              |
| 6                                                                                                                                                                                                                                                                                           | <b>34812-106</b>                                                                                                                                                                | <b>34813-106</b>                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                           |                  |                                                                                                                                                                                                                                |                                                        | <b>20808-060</b>                                                                                                                                                                                                                                                                                                                            | <b>20808-081</b>              |
| 7                                                                                                                                                                                                                                                                                           | <b>34812-107</b>                                                                                                                                                                | <b>34813-107</b>                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                           |                  |                                                                                                                                                                                                                                |                                                        | <b>20808-061</b>                                                                                                                                                                                                                                                                                                                            | <b>20808-082</b>              |
| 10                                                                                                                                                                                                                                                                                          | <b>34812-110</b>                                                                                                                                                                | <b>34813-110</b>                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                           |                  |                                                                                                                                                                                                                                |                                                        | <b>20808-004</b>                                                                                                                                                                                                                                                                                                                            | <b>20808-085</b>              |
| 12                                                                                                                                                                                                                                                                                          | <b>34812-112</b>                                                                                                                                                                | <b>34813-112</b>                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                           |                  |                                                                                                                                                                                                                                |                                                        | <b>20808-064</b>                                                                                                                                                                                                                                                                                                                            | <b>20808-086</b>              |
| 14                                                                                                                                                                                                                                                                                          | <b>34812-114</b>                                                                                                                                                                | <b>34813-114</b>                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                           |                  |                                                                                                                                                                                                                                |                                                        | <b>20808-065</b>                                                                                                                                                                                                                                                                                                                            | <b>20808-087</b>              |
| PCB depth 220 mm                                                                                                                                                                                                                                                                            |                                                                                                                                                                                 |                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                           |                  |                                                                                                                                                                                                                                |                                                        |                                                                                                                                                                                                                                                                                                                                             |                               |
| 5                                                                                                                                                                                                                                                                                           | <b>34812-105</b>                                                                                                                                                                | <b>34813-105</b>                                                                                                                                                                             | <b>21101-853</b>                                                                                                                                                                                                                                                                                                          | <b>21101-854</b> | <b>21102-105</b>                                                                                                                                                                                                               | <b>21102-106</b>                                       | <b>20808-003</b>                                                                                                                                                                                                                                                                                                                            | <b>20808-080</b>              |
| 6                                                                                                                                                                                                                                                                                           | <b>34812-106</b>                                                                                                                                                                | <b>34813-106</b>                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                           |                  |                                                                                                                                                                                                                                |                                                        | <b>20808-060</b>                                                                                                                                                                                                                                                                                                                            | <b>20808-081</b>              |
| 7                                                                                                                                                                                                                                                                                           | <b>34812-107</b>                                                                                                                                                                | <b>34813-107</b>                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                           |                  |                                                                                                                                                                                                                                |                                                        | <b>20808-061</b>                                                                                                                                                                                                                                                                                                                            | <b>20808-082</b>              |
| 10                                                                                                                                                                                                                                                                                          | <b>34812-110</b>                                                                                                                                                                | <b>34813-110</b>                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                           |                  |                                                                                                                                                                                                                                |                                                        | <b>20808-004</b>                                                                                                                                                                                                                                                                                                                            | <b>20808-085</b>              |
| 12                                                                                                                                                                                                                                                                                          | <b>34812-112</b>                                                                                                                                                                | <b>34813-112</b>                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                           |                  |                                                                                                                                                                                                                                |                                                        | <b>20808-064</b>                                                                                                                                                                                                                                                                                                                            | <b>20808-086</b>              |
| 14                                                                                                                                                                                                                                                                                          | <b>34812-114</b>                                                                                                                                                                | <b>34813-114</b>                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                           |                  |                                                                                                                                                                                                                                |                                                        | <b>20808-065</b>                                                                                                                                                                                                                                                                                                                            | <b>20808-087</b>              |
| <b>6 U Height</b>                                                                                                                                                                                                                                                                           |                                                                                                                                                                                 |                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                           |                  |                                                                                                                                                                                                                                |                                                        |                                                                                                                                                                                                                                                                                                                                             |                               |
| PCB depth 160 mm                                                                                                                                                                                                                                                                            |                                                                                                                                                                                 |                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                           |                  |                                                                                                                                                                                                                                |                                                        |                                                                                                                                                                                                                                                                                                                                             |                               |
| 5                                                                                                                                                                                                                                                                                           | <b>34812-605</b>                                                                                                                                                                | <b>34813-605</b>                                                                                                                                                                             | <b>21101-855</b>                                                                                                                                                                                                                                                                                                          | <b>21101-856</b> | <b>21102-107</b>                                                                                                                                                                                                               | <b>21102-108</b>                                       | <b>20808-003</b>                                                                                                                                                                                                                                                                                                                            | <b>20808-080</b>              |
| 6                                                                                                                                                                                                                                                                                           | <b>34812-606</b>                                                                                                                                                                | <b>34813-606</b>                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                           |                  |                                                                                                                                                                                                                                |                                                        | <b>20808-060</b>                                                                                                                                                                                                                                                                                                                            | <b>20808-081</b>              |
| 7                                                                                                                                                                                                                                                                                           | <b>34812-607</b>                                                                                                                                                                | <b>34813-607</b>                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                           |                  |                                                                                                                                                                                                                                |                                                        | <b>20808-061</b>                                                                                                                                                                                                                                                                                                                            | <b>20808-082</b>              |
| 10                                                                                                                                                                                                                                                                                          | <b>34812-610</b>                                                                                                                                                                | <b>34813-610</b>                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                           |                  |                                                                                                                                                                                                                                |                                                        | <b>20808-004</b>                                                                                                                                                                                                                                                                                                                            | <b>20808-085</b>              |
| 12                                                                                                                                                                                                                                                                                          | <b>34812-612</b>                                                                                                                                                                | <b>34813-612</b>                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                           |                  |                                                                                                                                                                                                                                |                                                        | <b>20808-064</b>                                                                                                                                                                                                                                                                                                                            | <b>20808-086</b>              |
| 14                                                                                                                                                                                                                                                                                          | <b>34812-614</b>                                                                                                                                                                | <b>34813-614</b>                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                           |                  |                                                                                                                                                                                                                                |                                                        | <b>20808-065</b>                                                                                                                                                                                                                                                                                                                            | <b>20808-087</b>              |
| PCB depth 220 mm                                                                                                                                                                                                                                                                            |                                                                                                                                                                                 |                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                           |                  |                                                                                                                                                                                                                                |                                                        |                                                                                                                                                                                                                                                                                                                                             |                               |
| 5                                                                                                                                                                                                                                                                                           | <b>34812-605</b>                                                                                                                                                                | <b>34813-605</b>                                                                                                                                                                             | <b>21101-855</b>                                                                                                                                                                                                                                                                                                          | <b>21101-856</b> | <b>21102-107</b>                                                                                                                                                                                                               | <b>21102-108</b>                                       | <b>20808-003</b>                                                                                                                                                                                                                                                                                                                            | <b>20808-080</b>              |
| 6                                                                                                                                                                                                                                                                                           | <b>34812-606</b>                                                                                                                                                                | <b>34813-606</b>                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                           |                  |                                                                                                                                                                                                                                |                                                        | <b>20808-060</b>                                                                                                                                                                                                                                                                                                                            | <b>20808-081</b>              |
| 7                                                                                                                                                                                                                                                                                           | <b>34812-607</b>                                                                                                                                                                | <b>34813-607</b>                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                           |                  |                                                                                                                                                                                                                                |                                                        | <b>20808-061</b>                                                                                                                                                                                                                                                                                                                            | <b>20808-082</b>              |
| 10                                                                                                                                                                                                                                                                                          | <b>34812-610</b>                                                                                                                                                                | <b>34813-610</b>                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                           |                  |                                                                                                                                                                                                                                |                                                        | <b>20808-004</b>                                                                                                                                                                                                                                                                                                                            | <b>20808-085</b>              |
| 12                                                                                                                                                                                                                                                                                          | <b>34812-612</b>                                                                                                                                                                | <b>34813-612</b>                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                           |                  |                                                                                                                                                                                                                                |                                                        | <b>20808-064</b>                                                                                                                                                                                                                                                                                                                            | <b>20808-086</b>              |
| 14                                                                                                                                                                                                                                                                                          | <b>34812-614</b>                                                                                                                                                                | <b>34813-614</b>                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                           |                  |                                                                                                                                                                                                                                |                                                        | <b>20808-065</b>                                                                                                                                                                                                                                                                                                                            | <b>20808-087</b>              |
| Dimensions see page                                                                                                                                                                                                                                                                         | 7.79                                                                                                                                                                            | 7.79                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                           |                  |                                                                                                                                                                                                                                |                                                        | 7.89                                                                                                                                                                                                                                                                                                                                        | 7.89                          |

1) SPQ (standard pack quantity): Order number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ) Please order at least the SPQ quantity or a multiple thereof  
Order number includes one packaging unit (PU); delivery is exclusively made in PU



Screw Driver, Torx 8, **64560-026**  
Assembly Tool, Torx 8, **24812-650**

# Frame type plug-in units PRO ServicePLUS

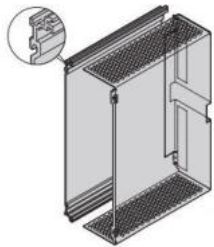


AbN  
automation

**SCHROFF**

**INDIVIDUAL  
COMPONENTS**

**SIDE PANEL AND HOODS**

|                                                                                                                                                                                                                                                 | Side panel profile<br>left                                                                                                                                         | Hood with Perforation                                                                                                                                                                                                                  | Hood without Perforation                                                                                                                                                                                                   | Assembly Kit                                                                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br><br>Supplied quantity<br>for assembly of<br>5 frame type<br>plug-in units | <br>137452920<br>Al extrusion, colourless passivated, with<br>groove for one PCB; | <br>136537976<br>Hood, bottom and top perforated,<br>Aluminium 1mm, with cut-out on the<br>rear side for one DIN-connector,<br>EN 60603-2 (DIN 41612) | <br>136536460<br>Hood, solid version,<br>Aluminium 1mm, with cut-out on the<br>rear side for one DIN-connector<br>EN 60603-2 (DIN 41612) | For mounting of five 3 U or 6 U<br>frame type plug-in units from<br>ServicePLUS components:<br>Front panel, side panel, hood,<br>rear panel, and handle plus<br>assembly instruction |
|                                                                                                                                                                                                                                                 | 1 piece (SPQ 5) <sup>1)</sup>                                                                                                                                      | 1 piece (SPQ 5) <sup>1)</sup>                                                                                                                                                                                                          | 1 piece (SPQ 5) <sup>1)</sup>                                                                                                                                                                                              |                                                                                                                                                                                      |
| <b>3 U Height</b>                                                                                                                                                                                                                               |                                                                                                                                                                    |                                                                                                                                                                                                                                        |                                                                                                                                                                                                                            |                                                                                                                                                                                      |
| HP                                                                                                                                                                                                                                              | PCB depth 160 mm                                                                                                                                                   |                                                                                                                                                                                                                                        |                                                                                                                                                                                                                            |                                                                                                                                                                                      |
| 5                                                                                                                                                                                                                                               | <b>34812-100</b>                                                                                                                                                   | <b>34812-005</b>                                                                                                                                                                                                                       | <b>34812-055</b>                                                                                                                                                                                                           | <b>24812-850</b>                                                                                                                                                                     |
| 6                                                                                                                                                                                                                                               | <b>34812-100</b>                                                                                                                                                   | <b>34812-006</b>                                                                                                                                                                                                                       | <b>34812-056</b>                                                                                                                                                                                                           | <b>24812-850</b>                                                                                                                                                                     |
| 7                                                                                                                                                                                                                                               | <b>34812-100</b>                                                                                                                                                   | <b>34812-007</b>                                                                                                                                                                                                                       | <b>34812-057</b>                                                                                                                                                                                                           | <b>24812-850</b>                                                                                                                                                                     |
| 10                                                                                                                                                                                                                                              | <b>34812-100</b>                                                                                                                                                   | <b>34812-010</b>                                                                                                                                                                                                                       | <b>34812-058</b>                                                                                                                                                                                                           | <b>24812-850</b>                                                                                                                                                                     |
| 12                                                                                                                                                                                                                                              | <b>34812-100</b>                                                                                                                                                   | <b>34812-012</b>                                                                                                                                                                                                                       | <b>34812-059</b>                                                                                                                                                                                                           | <b>24812-850</b>                                                                                                                                                                     |
| 14                                                                                                                                                                                                                                              | <b>34812-100</b>                                                                                                                                                   | <b>34812-014</b>                                                                                                                                                                                                                       | <b>34812-060</b>                                                                                                                                                                                                           | <b>24812-850</b>                                                                                                                                                                     |
|                                                                                                                                                                                                                                                 | PCB depth 220 mm                                                                                                                                                   |                                                                                                                                                                                                                                        |                                                                                                                                                                                                                            |                                                                                                                                                                                      |
| 5                                                                                                                                                                                                                                               | <b>34813-100</b>                                                                                                                                                   | <b>34813-005</b>                                                                                                                                                                                                                       | <b>34813-055</b>                                                                                                                                                                                                           | <b>24812-850</b>                                                                                                                                                                     |
| 6                                                                                                                                                                                                                                               | <b>34813-100</b>                                                                                                                                                   | <b>34813-006</b>                                                                                                                                                                                                                       | <b>34813-056</b>                                                                                                                                                                                                           | <b>24812-850</b>                                                                                                                                                                     |
| 7                                                                                                                                                                                                                                               | <b>34813-100</b>                                                                                                                                                   | <b>34813-007</b>                                                                                                                                                                                                                       | <b>34813-057</b>                                                                                                                                                                                                           | <b>24812-850</b>                                                                                                                                                                     |
| 10                                                                                                                                                                                                                                              | <b>34813-100</b>                                                                                                                                                   | <b>34813-010</b>                                                                                                                                                                                                                       | <b>34813-058</b>                                                                                                                                                                                                           | <b>24812-850</b>                                                                                                                                                                     |
| 12                                                                                                                                                                                                                                              | <b>34813-100</b>                                                                                                                                                   | <b>34813-012</b>                                                                                                                                                                                                                       | <b>34813-059</b>                                                                                                                                                                                                           | <b>24812-850</b>                                                                                                                                                                     |
| 14                                                                                                                                                                                                                                              | <b>34813-100</b>                                                                                                                                                   | <b>34813-014</b>                                                                                                                                                                                                                       | <b>34813-060</b>                                                                                                                                                                                                           | <b>24812-850</b>                                                                                                                                                                     |
| <b>6 U Height</b>                                                                                                                                                                                                                               |                                                                                                                                                                    |                                                                                                                                                                                                                                        |                                                                                                                                                                                                                            |                                                                                                                                                                                      |
| HP                                                                                                                                                                                                                                              | PCB depth 160 mm                                                                                                                                                   |                                                                                                                                                                                                                                        |                                                                                                                                                                                                                            |                                                                                                                                                                                      |
| 5                                                                                                                                                                                                                                               | <b>34812-600</b>                                                                                                                                                   | <b>34812-505</b>                                                                                                                                                                                                                       | <b>34812-555</b>                                                                                                                                                                                                           | <b>24812-850</b>                                                                                                                                                                     |
| 6                                                                                                                                                                                                                                               | <b>34812-600</b>                                                                                                                                                   | <b>34812-506</b>                                                                                                                                                                                                                       | <b>34812-556</b>                                                                                                                                                                                                           | <b>24812-850</b>                                                                                                                                                                     |
| 7                                                                                                                                                                                                                                               | <b>34812-600</b>                                                                                                                                                   | <b>34812-507</b>                                                                                                                                                                                                                       | <b>34812-557</b>                                                                                                                                                                                                           | <b>24812-850</b>                                                                                                                                                                     |
| 10                                                                                                                                                                                                                                              | <b>34812-600</b>                                                                                                                                                   | <b>34812-510</b>                                                                                                                                                                                                                       | <b>34812-558</b>                                                                                                                                                                                                           | <b>24812-850</b>                                                                                                                                                                     |
| 12                                                                                                                                                                                                                                              | <b>34812-600</b>                                                                                                                                                   | <b>34812-512</b>                                                                                                                                                                                                                       | <b>34812-559</b>                                                                                                                                                                                                           | <b>24812-850</b>                                                                                                                                                                     |
| 14                                                                                                                                                                                                                                              | <b>34812-600</b>                                                                                                                                                   | <b>34812-514</b>                                                                                                                                                                                                                       | <b>34812-560</b>                                                                                                                                                                                                           | <b>24812-850</b>                                                                                                                                                                     |
|                                                                                                                                                                                                                                                 | PCB depth 220 mm                                                                                                                                                   |                                                                                                                                                                                                                                        |                                                                                                                                                                                                                            |                                                                                                                                                                                      |
| 5                                                                                                                                                                                                                                               | <b>34813-600</b>                                                                                                                                                   | <b>34813-505</b>                                                                                                                                                                                                                       | <b>34813-555</b>                                                                                                                                                                                                           | <b>24812-850</b>                                                                                                                                                                     |
| 6                                                                                                                                                                                                                                               | <b>34813-600</b>                                                                                                                                                   | <b>34813-506</b>                                                                                                                                                                                                                       | <b>34813-556</b>                                                                                                                                                                                                           | <b>24812-850</b>                                                                                                                                                                     |
| 7                                                                                                                                                                                                                                               | <b>34813-600</b>                                                                                                                                                   | <b>34813-507</b>                                                                                                                                                                                                                       | <b>34813-557</b>                                                                                                                                                                                                           | <b>24812-850</b>                                                                                                                                                                     |
| 10                                                                                                                                                                                                                                              | <b>34813-600</b>                                                                                                                                                   | <b>34813-510</b>                                                                                                                                                                                                                       | <b>34813-558</b>                                                                                                                                                                                                           | <b>24812-850</b>                                                                                                                                                                     |
| 12                                                                                                                                                                                                                                              | <b>34813-600</b>                                                                                                                                                   | <b>34813-512</b>                                                                                                                                                                                                                       | <b>34813-559</b>                                                                                                                                                                                                           | <b>24812-850</b>                                                                                                                                                                     |
| 14                                                                                                                                                                                                                                              | <b>34813-600</b>                                                                                                                                                   | <b>34813-514</b>                                                                                                                                                                                                                       | <b>34813-560</b>                                                                                                                                                                                                           | <b>24812-850</b>                                                                                                                                                                     |
| Dimensions see<br>page                                                                                                                                                                                                                          | 7.88                                                                                                                                                               | 7.89                                                                                                                                                                                                                                   | 7.89                                                                                                                                                                                                                       |                                                                                                                                                                                      |

1) SPQ (standard pack quantity): Order number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ) Please order at least the SPQ quantity or a multiple thereof  
Order number includes one packaging unit (PU); delivery is exclusively made in PU



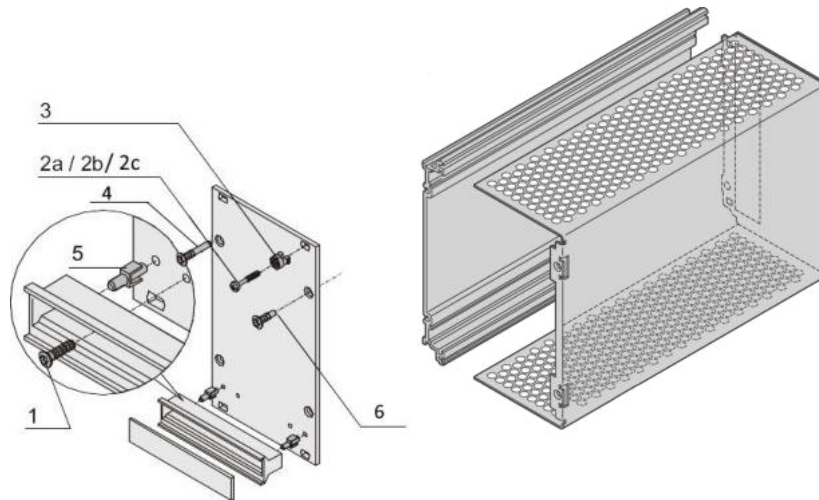
Screw Driver, Torx 8, **64560-026**  
Assembly Tool, Torx 8, **24812-650**

# Frame type plug-in units PRO ServicePLUS nVent

**SCHROFF**

**INDIVIDUAL  
COMPONENTS**

**FIXING MATERIAL (100 PIECES)**



| Fixing parts                                                                | Item |                                                                                     | Required quantity<br>per plug-in unit | Description                                                                                   | Qty/PU | Part No.         |
|-----------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------|---------------------------------------|-----------------------------------------------------------------------------------------------|--------|------------------|
| <b>Fixing parts for mounting the module in subrack or case</b>              |      |                                                                                     |                                       |                                                                                               |        |                  |
| Torx panhead screw, M2.5 x 10,<br>St, zinc-plated, self-forming<br>thread   | 1    |   | 2                                     | Assembly of handle on front panel                                                             | 100    | <b>24560-179</b> |
|                                                                             |      | 135485443                                                                           |                                       |                                                                                               |        |                  |
| Collar screws pozidrive/slot<br>(Philips)<br>M2.5 x 12.3, St, nickel-plated | 2a   |  | 4                                     | Mounting of front panel on horizontal rail                                                    | 100    | <b>21102-026</b> |
|                                                                             |      | 109123734                                                                           |                                       |                                                                                               |        |                  |
| Slotted Pozidrive collar screw<br>M2.5 x 12.3, St, nickel-plated            | 2b   |  | 4                                     | Mounting of front panel on horizontal rail                                                    | 100    | <b>21101-101</b> |
|                                                                             |      | 109123734                                                                           |                                       |                                                                                               |        |                  |
| Torx 8, collar screw<br>M2.5 x 12.3, St, nickel-plated                      | 2c   |  | 4                                     | Mounting of front panel on horizontal rail                                                    | 100    | <b>21101-782</b> |
|                                                                             |      | 110435009                                                                           |                                       |                                                                                               |        |                  |
| Plastic sleeves<br>for form hole 5.9 x 3.3,<br>PA, UL 94 V-2, grey          | 3    |  | 4                                     | Is needed to fix collar screws                                                                | 100    | <b>21100-464</b> |
|                                                                             |      | 108230374                                                                           |                                       |                                                                                               |        |                  |
| <b>Fixing parts for mounting the module (Frame Type PIU)</b>                |      |                                                                                     |                                       |                                                                                               |        |                  |
| Torx raised countersunk panhead<br>screw, T8<br>3 x 20, St, nickel-plated   | 4    |  | 4                                     | Assembly of front panel and rear panel on extruded<br>side panel/rear extrusion of side panel | 100    | <b>24812-501</b> |
|                                                                             |      | 067 08052                                                                           |                                       |                                                                                               |        |                  |
| Fixing clip for trapeziform plastic<br>handle<br>PPE UL 94 V-0, black       | 5    |  | 2                                     | Alignment aid for handle on front panel                                                       | 100    | <b>21101-239</b> |
|                                                                             |      | 046 08090                                                                           |                                       |                                                                                               |        |                  |
| Torx-countersunk panhead<br>screw, T8,<br>3 x 8, St, nickel-plated          | 6    |  | 2                                     | Assembly of front panel and rear panel on the hood                                            | 100    | <b>21191-589</b> |
|                                                                             |      | 135314301                                                                           |                                       |                                                                                               |        |                  |
| Torx-T8, Screw driver                                                       |      |  |                                       |                                                                                               | 1      | <b>64560-026</b> |
|                                                                             |      | 110434981                                                                           |                                       |                                                                                               |        |                  |
| Torx T8, -Assembly tool                                                     |      |  |                                       |                                                                                               | 1      | <b>24812-650</b> |
|                                                                             |      | 107888226                                                                           |                                       |                                                                                               |        |                  |

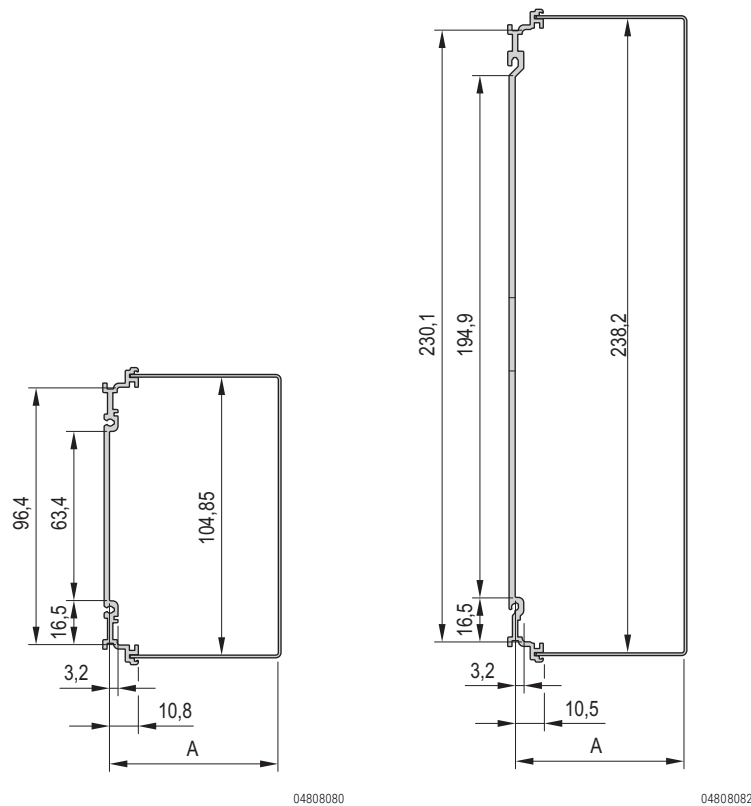
• Other screws and sleeves page 7.107

# Frame type plug-in units PRO with hood

**SCHROFF**

## DIMENSIONS

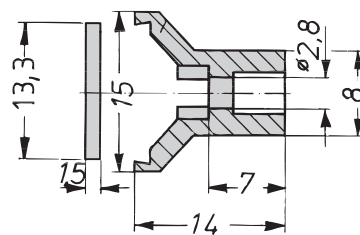
## CROSS-SECTION FRAME-TYPE PLUG-IN UNITS PRO WITH HOOD 3 U/6 U



| Height<br>U | Width<br>HP | A<br>mm |
|-------------|-------------|---------|
| 3           | 5           | 17.52   |
| 3           | 6           | 22.60   |
| 3           | 7           | 27.68   |
| 3           | 10          | 42.92   |
| 3           | 12          | 53.08   |
| 3           | 14          | 63.24   |
| 6           | 5           | 17.22   |
| 6           | 6           | 22.30   |
| 6           | 7           | 27.38   |
| 6           | 10          | 42.62   |
| 6           | 12          | 57.78   |
| 6           | 14          | 62.94   |

## DIMENSIONS

## FRONT HANDLE



a4-328e

## DIMENSIONS TABLE

| Width<br>HP | Width<br>mm |
|-------------|-------------|
| 5           | 24.0        |
| 6           | 29.0        |
| 7           | 34.1        |
| 10          | 49.4        |
| 12          | 59.6        |
| 14          | 69.7        |

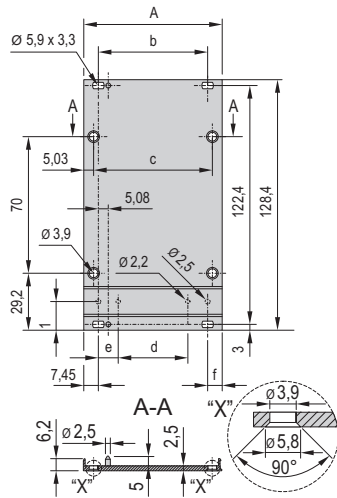
# Frame type plug-in units PRO with hood

## DIMENSIONS

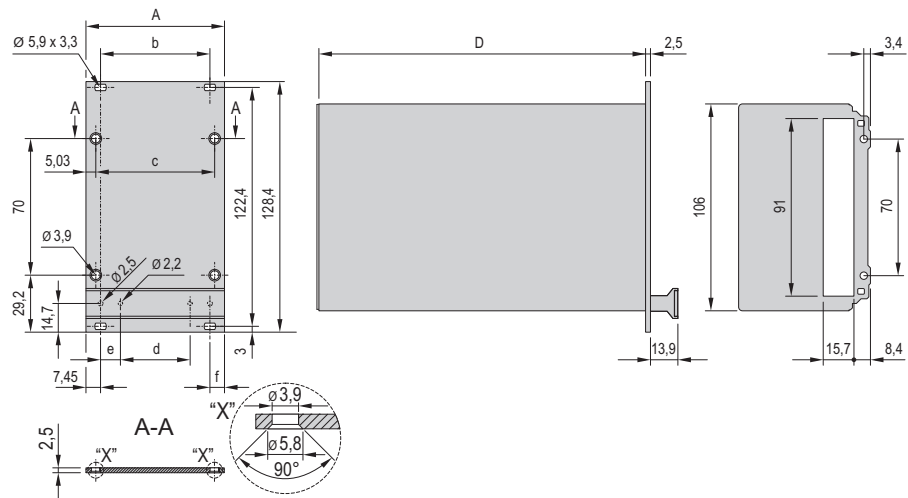
## 3/6 U FRAME-TYPE PLUG-IN UNITS PRO WITH HOOD

3 U Front panel shieldable

Front panel unshielded



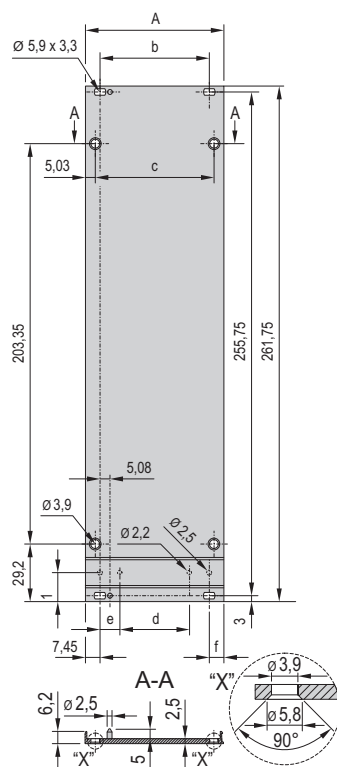
04808052



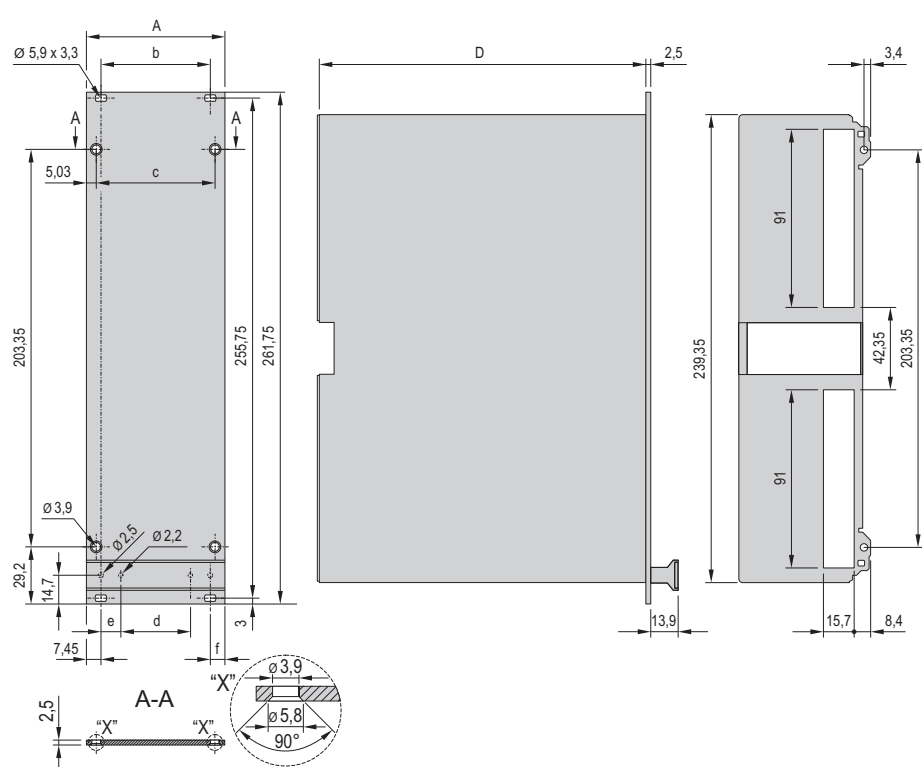
04808111

6 U Front panel shieldable

Front panel unshielded



04809053

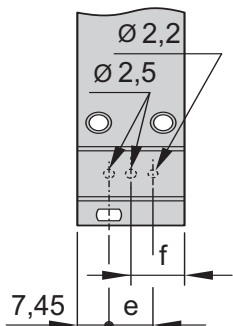


04808112

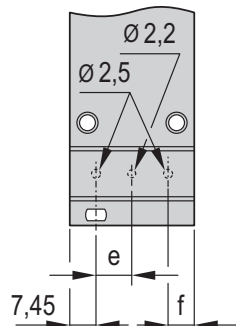
Front panel

5 HP

6 + 7 HP



04809067



04809066

Dimensions table

|       | 5     | 6     | 7     | 10    | 12    | 14 |  |
|-------|-------|-------|-------|-------|-------|----|--|
| 25.06 | -     | 15.00 | -     | 10.16 | 12.53 |    |  |
| 30.14 | -     | 20.08 | -     | 10.16 | 7.45  |    |  |
| 35.22 | -     | 25.16 | -     | 10.16 | 7.45  |    |  |
| 50.46 | 35.56 | 40.40 | 15.24 | 10.16 | 7.45  |    |  |
| 60.62 | 45.72 | 50.56 | 25.40 | 10.16 | 7.45  |    |  |
| 70.78 | 55.88 | 60.72 | 35.56 | 10.16 | 7.45  |    |  |

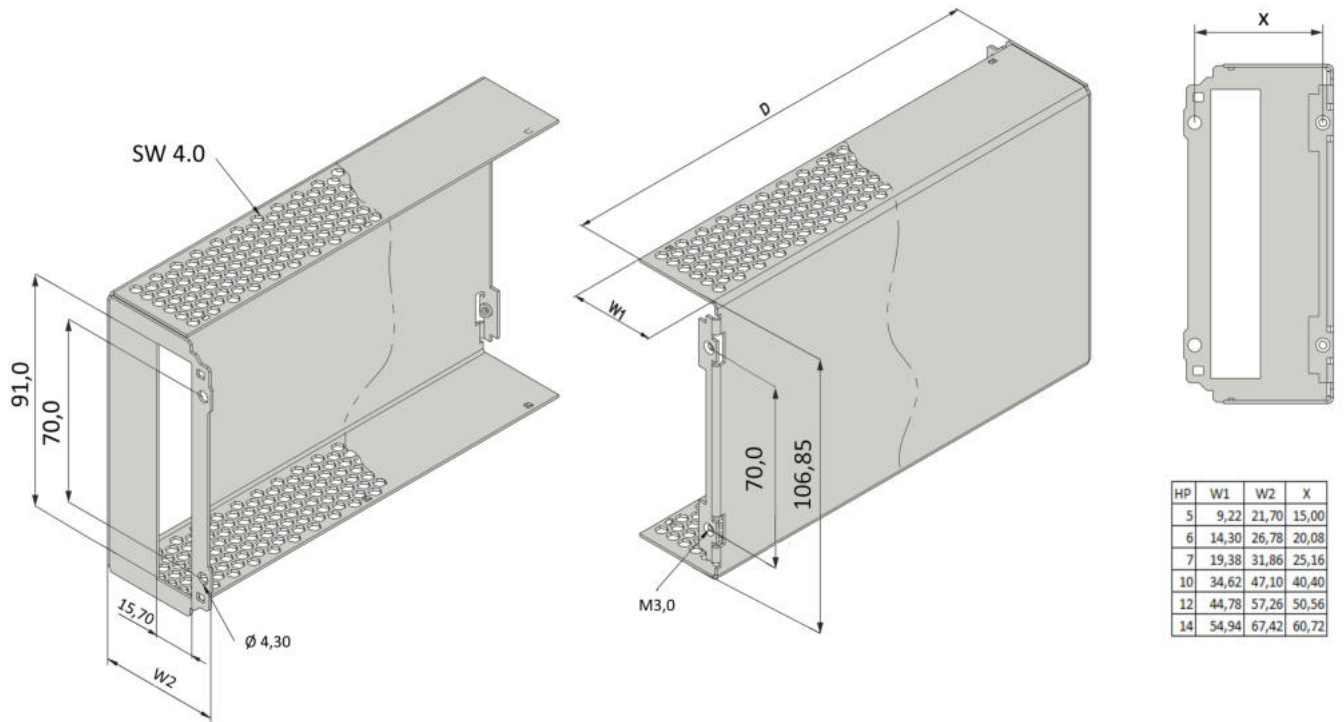
167 mm/  
227 mm

# Frame type plug-in units PRO with hood

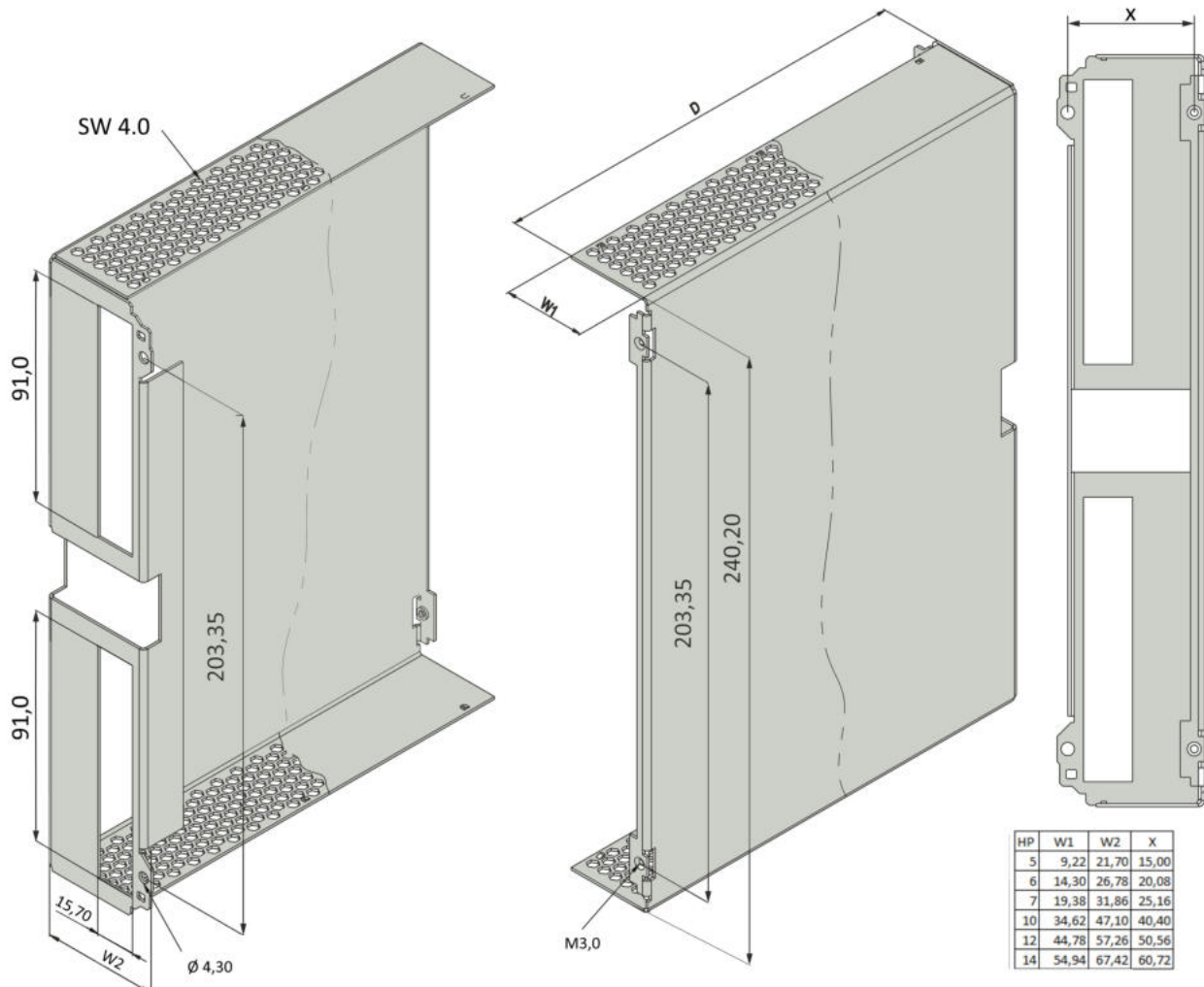
## DIMENSIONS

## 3/6 U HOOD WITH / WITHOUT PERFORATION

D = 168 / 228



134909378



134909379

# HF frame type plug-in units

## HF FRAME TYPE PLUG-IN UNITS, 3 U KITS, FRONT PANEL SHIELDED



108230748

- With high shielding from high-frequency radiation
- To accept boards in HP grid increments
- Solid body on all sides, with cooling fins

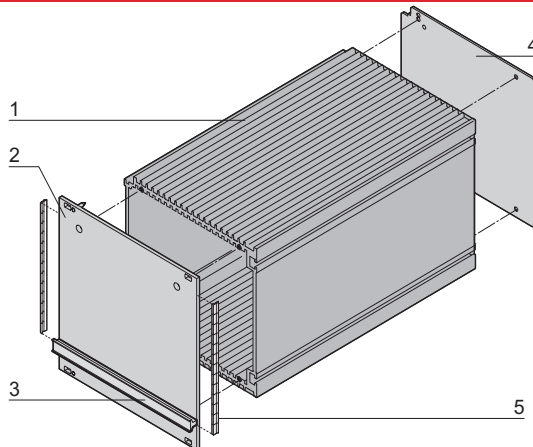
### DELIVERY COMPRISES (kit)

| Item | Qty | Description                                                                                                                                               |
|------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | 1   | Body tube, Al extrusion, black anodised, cut edges plain                                                                                                  |
| 2    | 1   | Front panel, Al, 2.5 mm, with lateral grooves for EMC gasket (stainless steel), alignment pin pressed-in, front anodised, rear iridescent green chromated |
| 3    | 1   | Handle, grey, (RAL 7035), PC, UL 94 V0, EN 45545-2, R22-R24, HL3 identification plate, Al, anodised, cut edges plain                                      |
| 4    | 1   | Rear panel, Al, 1.5 mm, etched without cut-outs                                                                                                           |
| 5    | 2   | EMC gasket (steel, stainless)                                                                                                                             |
| 6    | 1   | Assembly kit                                                                                                                                              |

### TECHNICAL DATA

| HF plug-in unit | Thermal resistance K/W |                |
|-----------------|------------------------|----------------|
| HP              | Depth = 167 mm         | Depth = 227 mm |
| 7               | 1.68                   | 1.51           |
| 10              | 1.62                   | 1.46           |
| 12              | 1.56                   | 1.40           |
| 14              | 1.50                   | 1.35           |
| 21              | 1.06                   | 0.95           |
| 28              | 0.94                   | 0.85           |

### ORDER INFORMATION



04802050

| Height<br>U | Width<br>HP | Depth = 167 mm<br>Part no. | Depth = 227 mm<br>Part no. |
|-------------|-------------|----------------------------|----------------------------|
| 3           | 7           | <b>20809-529</b>           | <b>20809-536</b>           |
| 3           | 10          | <b>20809-530</b>           | <b>20809-537</b>           |
| 3           | 12          | <b>20809-531</b>           | <b>20809-538</b>           |
| 3           | 14          | <b>20809-532</b>           | <b>20809-539</b>           |
| 3           | 21          | <b>20809-533</b>           | <b>20809-540</b>           |
| 3           | 28          | <b>20809-534</b>           | <b>20809-541</b>           |

### NOTE

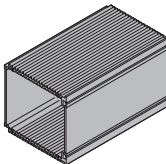
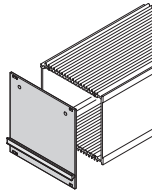
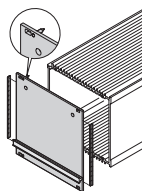
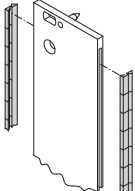
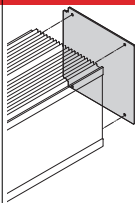
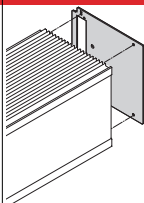
- Dimension drawings see from page 7.96

# HF frame type plug-in units ServicePLUS

## INDIVIDUAL COMPONENTS

## HF BODY TUBE, FRONT PANELS WITH HANDLE, REAR PANELS

### ORDER INFORMATION

|                     |          | HF body tube                                                                                  | Shieldable front panel, with handle                                                              | Shieldable front panel, with handle<br>for EMC gasket (stainless steel)                                                                                                                                        | EMC gasket (stainless steel)                                                                  | Assembly tool                                                                                   | Rear panel<br>without cut-out                                                                   | with cut-out                                                                                                                 |
|---------------------|----------|-----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
|                     |          | <br>KAA45832 | <br>KAA45831    | <br>04807074                                                                                                                  | <br>bga45760 | <br>135542978 | <br>04807075 | <br>KAA45834                              |
|                     |          | Al extrusion, black anodised, cut edges plain                                                 | Al, 2,5 mm, front anodised, rear iridescent green chromated; static handle, grey, PPE, UL 94 V-1 | Al, 2,5 mm, front anodised, rear iridescent green chromated, with lateral grooves for stainless steel EMC gasket (please order separately), alignment pin pressed-in, trapeziform handle, grey, PPE, UL 94 V-1 | inserted laterally into the grooves of the front panel                                        | to mount the stainless steel EMC gasket                                                         | Al, 1,5 mm, etched                                                                              | Al, 2,5 mm, etched, cut-out for connector types EN 60603 (DIN 41612); 7 HP: B, C, D, R; 10 - 28 HP: B, C, D, R, F, H, MF, MH |
| Height U            | Width HP | 1 piece (SPQ 5) <sup>1)</sup>                                                                 | 1 piece (SPQ 5) <sup>1)</sup>                                                                    | 1 piece (SPQ 5) <sup>1)</sup>                                                                                                                                                                                  | PU 100 pieces                                                                                 | 1 piece                                                                                         | 1 piece (SPQ 5) <sup>1)</sup>                                                                   | 1 piece (SPQ 5) <sup>1)</sup>                                                                                                |
|                     |          | PCB depth 160 mm                                                                              |                                                                                                  |                                                                                                                                                                                                                |                                                                                               |                                                                                                 |                                                                                                 |                                                                                                                              |
| 3                   | 7        | <b>30809-667</b>                                                                              | <b>20838-001</b>                                                                                 | <b>20838-093</b>                                                                                                                                                                                               | <b>21101-705</b>                                                                              | <b>24560-270</b>                                                                                | <b>30809-635</b>                                                                                | <b>30809-641</b>                                                                                                             |
|                     | 10       | <b>30809-677</b>                                                                              | <b>20838-002</b>                                                                                 | <b>20838-094</b>                                                                                                                                                                                               |                                                                                               |                                                                                                 | <b>30809-636</b>                                                                                | <b>30809-642</b>                                                                                                             |
|                     | 12       | <b>30809-675</b>                                                                              | <b>20838-003</b>                                                                                 | <b>20838-095</b>                                                                                                                                                                                               |                                                                                               |                                                                                                 | <b>30809-637</b>                                                                                | <b>30809-643</b>                                                                                                             |
|                     | 14       | <b>30809-673</b>                                                                              | <b>20838-004</b>                                                                                 | <b>20838-096</b>                                                                                                                                                                                               |                                                                                               |                                                                                                 | <b>30809-638</b>                                                                                | <b>30809-644</b>                                                                                                             |
|                     | 21       | <b>30809-671</b>                                                                              | <b>20838-005</b>                                                                                 | <b>20838-097</b>                                                                                                                                                                                               |                                                                                               |                                                                                                 | <b>30809-639</b>                                                                                | <b>30809-645</b>                                                                                                             |
|                     | 28       | <b>30809-669</b>                                                                              | <b>20838-006</b>                                                                                 | <b>20838-098</b>                                                                                                                                                                                               |                                                                                               |                                                                                                 | <b>30809-640</b>                                                                                | <b>30809-646</b>                                                                                                             |
|                     |          | PCB depth 220 mm                                                                              |                                                                                                  |                                                                                                                                                                                                                |                                                                                               |                                                                                                 |                                                                                                 |                                                                                                                              |
| 3                   | 7        | <b>30809-668</b>                                                                              | <b>20838-001</b>                                                                                 | <b>20838-093</b>                                                                                                                                                                                               | <b>21101-705</b>                                                                              | <b>24560-270</b>                                                                                | <b>30809-635</b>                                                                                | <b>30809-641</b>                                                                                                             |
|                     | 10       | <b>30809-678</b>                                                                              | <b>20838-002</b>                                                                                 | <b>20838-094</b>                                                                                                                                                                                               |                                                                                               |                                                                                                 | <b>30809-636</b>                                                                                | <b>30809-642</b>                                                                                                             |
|                     | 12       | <b>30809-676</b>                                                                              | <b>20838-003</b>                                                                                 | <b>20838-095</b>                                                                                                                                                                                               |                                                                                               |                                                                                                 | <b>30809-637</b>                                                                                | <b>30809-643</b>                                                                                                             |
|                     | 14       | <b>30809-674</b>                                                                              | <b>20838-004</b>                                                                                 | <b>20838-096</b>                                                                                                                                                                                               |                                                                                               |                                                                                                 | <b>30809-638</b>                                                                                | <b>30809-644</b>                                                                                                             |
|                     | 21       | <b>30809-672</b>                                                                              | <b>20838-005</b>                                                                                 | <b>20838-097</b>                                                                                                                                                                                               |                                                                                               |                                                                                                 | <b>30809-639</b>                                                                                | <b>30809-645</b>                                                                                                             |
|                     | 28       | <b>30809-670</b>                                                                              | <b>20838-006</b>                                                                                 | <b>20838-098</b>                                                                                                                                                                                               |                                                                                               |                                                                                                 | <b>30809-640</b>                                                                                | <b>30809-646</b>                                                                                                             |
| Dimensions see page |          | 7.96                                                                                          | 7.97                                                                                             |                                                                                                                                                                                                                |                                                                                               |                                                                                                 | 7.96                                                                                            |                                                                                                                              |

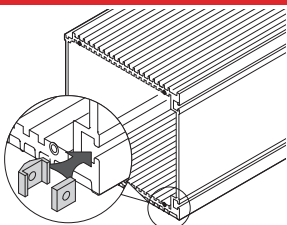
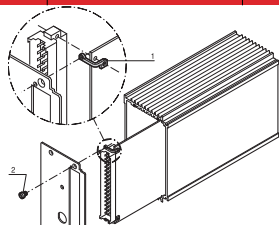
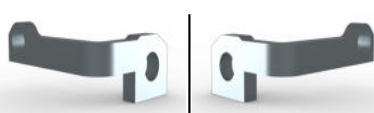
1) SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple  
Part no. includes one packing unit (PU); delivery is exclusively made in PU

# HF frame type plug-in units

## INDIVIDUAL COMPONENTS

## SLIDE NUTS, FIXING FOR PCBs, MOUNTING KIT

### ORDER INFORMATION

|                                                                   |                                 | Slide nut                                                                                                                                                                                                                |                  | Fixing for PCBs                                                                                                                                                                       |                                | Complete assembly kit | Fixing material for one HF frame type plug-in unit |
|-------------------------------------------------------------------|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-----------------------|----------------------------------------------------|
|                                                                   |                                 | M 2.5                                                                                                                                                                                                                    | M 3              | Individual components                                                                                                                                                                 |                                |                       |                                                    |
|                                                                   |                                 |                                                                                                                                                                                                                          |                  | top                                                                                                                                                                                   | bottom                         |                       |                                                    |
|                                                                   |                                 |  <p>width across flats (WAF) 7, for insertion into HF body tube, top and bottom, provides lateral fixing (on right)</p> <p>04807076</p> |                  |  <p>bracket (stainless steel), 1.5 mm; please order retention screws separately</p> <p>KAA45843</p> |                                |                       |                                                    |
|                                                                   |                                 |                                                                                                                                                                                                                          |                  |                                                                                                    |                                |                       |                                                    |
| Height<br>U                                                       | Width<br>HP                     | PU 100 pieces                                                                                                                                                                                                            | PU 100 pieces    | 1 piece (SPQ 10) <sup>1)</sup>                                                                                                                                                        | 1 piece (SPQ 10) <sup>1)</sup> | PU 1 kit              | PU 1 kit                                           |
| 3                                                                 | 7<br>10<br>12<br>14<br>21<br>28 | <b>21100-112</b>                                                                                                                                                                                                         | <b>21100-289</b> | <b>30809-701</b>                                                                                                                                                                      | <b>30809-700</b>               | <b>21101-937</b>      | <b>21100-105</b>                                   |
| <b>Accessories</b>                                                |                                 |                                                                                                                                                                                                                          |                  |                                                                                                                                                                                       |                                |                       |                                                    |
| Cheesehead screw<br>M2.5 x 4, St, nickel-plated, PU<br>100 pieces |                                 | –                                                                                                                                                                                                                        | –                | <b>21100-431</b>                                                                                                                                                                      | <b>21100-431</b>               | –                     | –                                                  |

1) SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ);

please order at least the SPQ quantity or a multiple

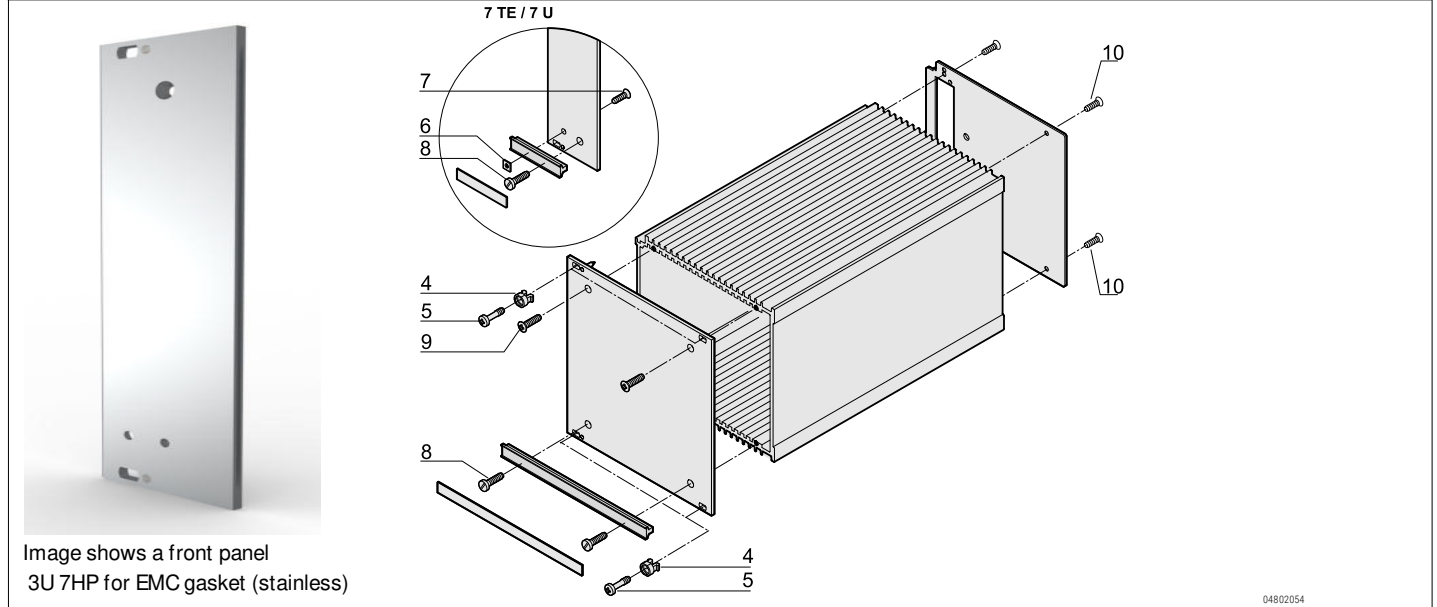
Part no. includes one packing unit (PU); delivery is exclusively made in PU

# HF frame type plug-in units

**INDIVIDUAL COMPONENTS**

**FIXING MATERIAL (100 PIECES)**

## ORDER INFORMATION



| Description                                                                  | Item |                                                                                                                 | Required quantity<br>per plug-in unit | Description | Qty/PU                                                                                                   | Part no. |           |
|------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------------------|---------------------------------------|-------------|----------------------------------------------------------------------------------------------------------|----------|-----------|
| Fixing parts for mounting the module in subrack or case                      |      |                                                                                                                 |                                       |             |                                                                                                          |          |           |
| Plastic sleeve<br>for form hole 5.9 x 3.3,<br>PA, UL 94 V-2, grey            | 4    | <br><small>108220374</small> | 2 at 7 HP                             |             | Front panel is fitted to horizontal rail with threaded insert pushed in to front                         | 100      | 21100-464 |
|                                                                              |      |                                                                                                                 | 4 at > 7 HP                           |             |                                                                                                          |          |           |
| Collar screws pozidrive/slot<br>(Philips)<br>M2.5 x 12.3, St, nickel-plated  | 5    |                              | 2 at 7 HP                             |             | Mounting of front panel on horizontal rail with threaded insert pushed in to front                       | 100      | 21102-026 |
|                                                                              |      |                                                                                                                 | 4 at > 7 HP                           |             |                                                                                                          |          |           |
| Pozidrive/slotted collar screw<br>M2.5 x 12.3, St, nickel-plated             | 5    |                              | 2 at 7 HP                             |             | Front panel is fitted to horizontal rail with threaded insert pushed in to rear in the standard position | 100      | 21101-101 |
|                                                                              |      |                                                                                                                 | 4 at > 7 HP                           |             |                                                                                                          |          |           |
| Fixing parts for mounting the module                                         |      |                                                                                                                 |                                       |             |                                                                                                          |          |           |
| Square nut<br>DIN 562, M2.5,St,<br>nickel-plated                             | 6    | <br><small>135314303</small> | 1 at 7 HP                             |             | To mount handle on front panel                                                                           | 100      | 21100-359 |
| Pozidrive countersunk screw<br>M2.5 x 12, St, nickel-plated                  | 7    |                              | 1 at 7 HP                             |             | To mount handle on front panel                                                                           | 100      | 21100-507 |
| Slotted cheesehead screw<br>M2.5 x 16, St, nickel-plated                     | 8    | <br><small>135201532</small> | 1 at 7 HP                             |             | To mount handle and front panel on HF body tube                                                          | 100      | 21100-150 |
|                                                                              |      |                                                                                                                 | 2 at > 7 HP                           |             |                                                                                                          |          |           |
| Raised Pozidrive countersunk<br>panhead screw<br>M2.5 x 8, St, nickel-plated | 9    |                              | 2                                     |             | To mount front panel on HF body tube                                                                     | 100      | 21100-429 |
| Pozidrive countersunk screw<br>M2.5 x 6, St, nickel-plated                   | 10   | <br><small>06702056</small>  | 4                                     |             | To mount rear panel on HF body tube                                                                      | 100      | 21100-515 |

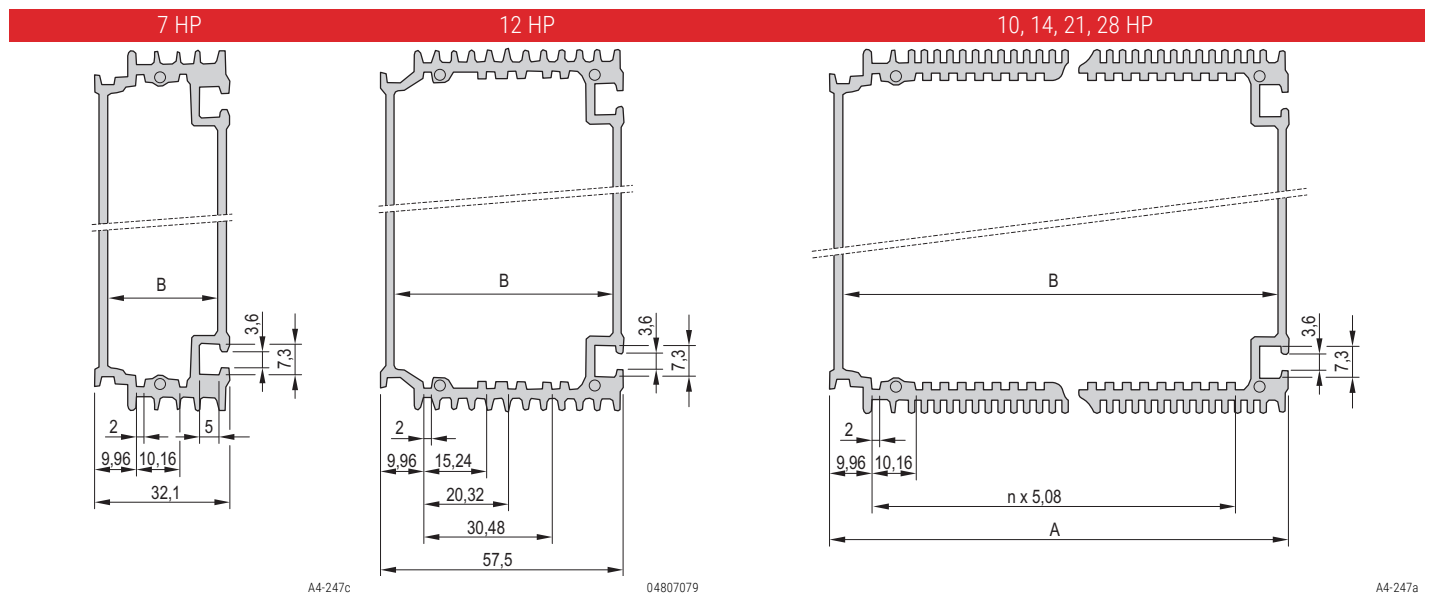
### NOTE

- Further collar screws and sleeves see page 7.107

# HF frame type plug-in units

## DIMENSIONS

### HF BODY TUBE

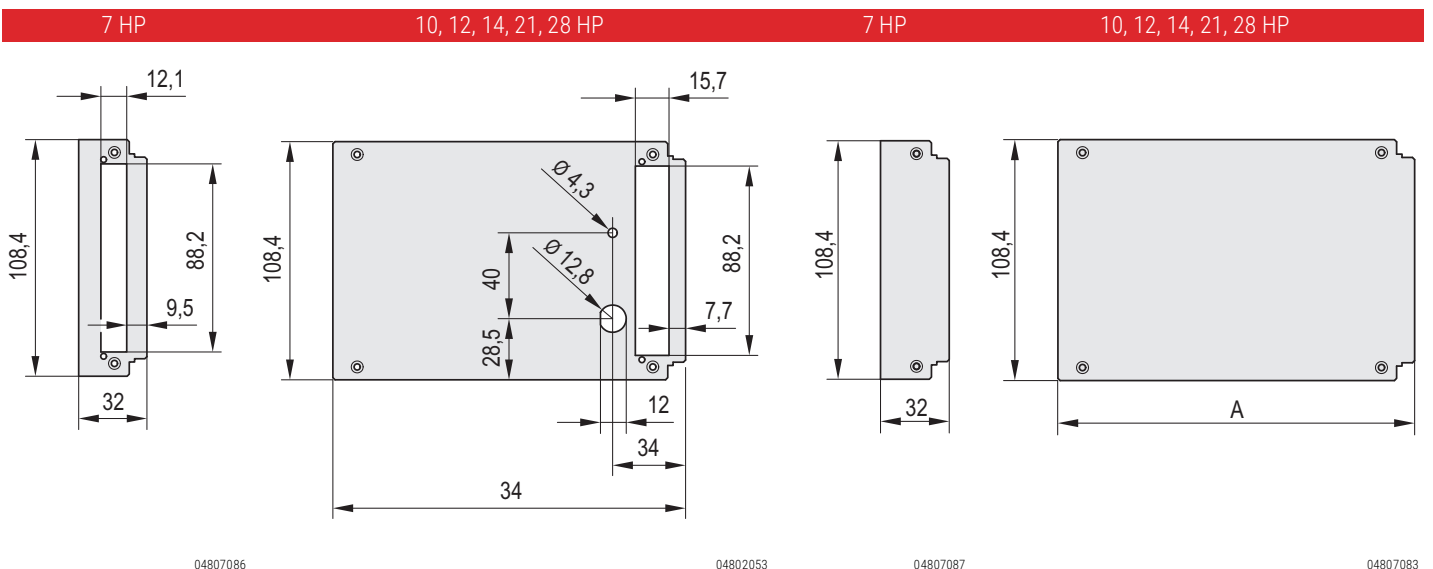


Dimensions table

| Dimension<br>mm | 7 HP  | 10 HP    | 12 HP | 14 HP    | 21 HP     | 28 HP     |
|-----------------|-------|----------|-------|----------|-----------|-----------|
| n               | –     | 3 × 5.08 | –     | 7 × 5.08 | 14 × 5.08 | 21 × 5.08 |
| A               | –     | 47.34    | –     | 67.66    | 103.22    | 138.78    |
| B               | 26.34 | 41.58    | 51.74 | 61.90    | 97.46     | 133.02    |

## DIMENSIONS

### REAR PANEL WITH/WITHOUT CUT-OUT FOR CONNECTOR



Dimensions table

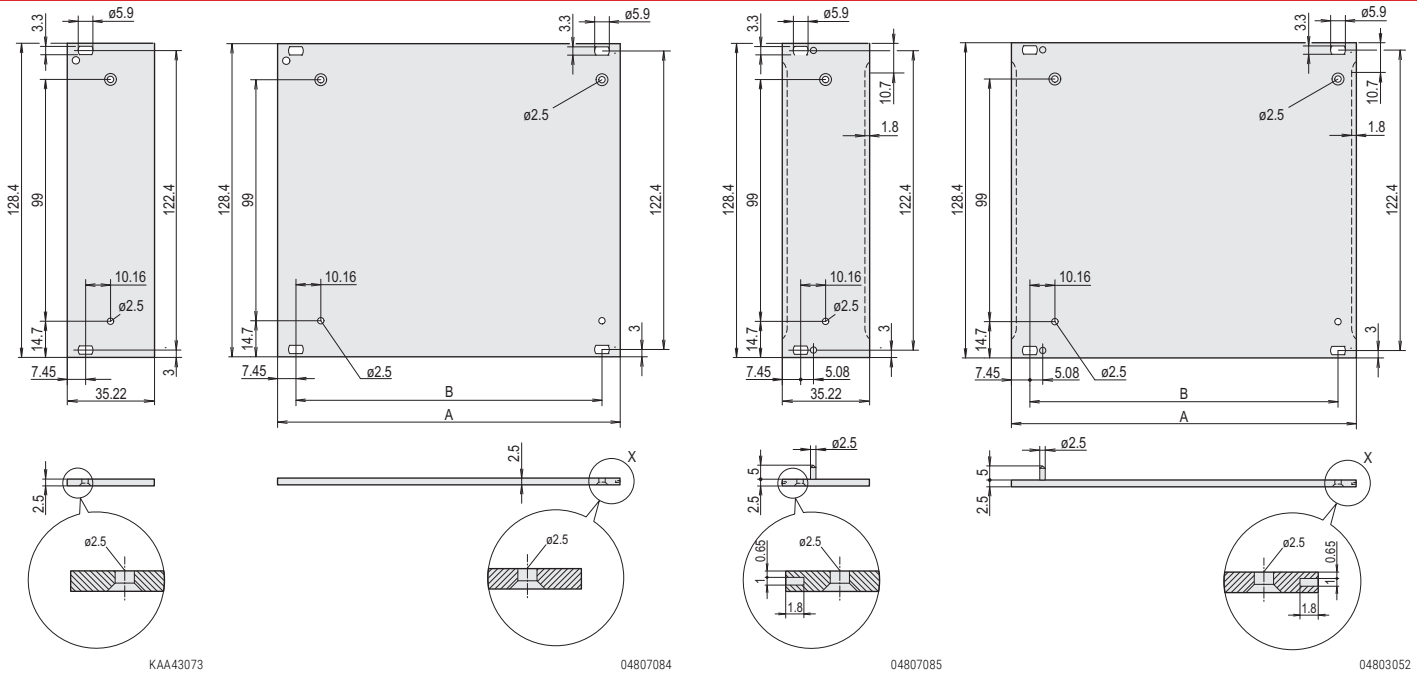
| Width | A<br>mm |
|-------|---------|
| 7 HP  | 32.00   |
| 10 HP | 47.24   |
| 12 HP | 57.40   |
| 14 HP | 67.40   |
| 21 HP | 103.12  |
| 28 HP | 136.68  |

# HF frame type plug-in units

## DIMENSIONS

## FRONT PANELS

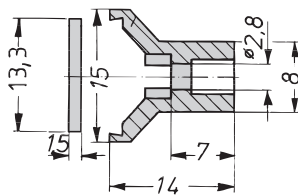
| Unshielded<br>7 HP | 10, 12, 14, 21, 28 HP | Shieldable, slotted for EMC stainless steel gasket<br>7 HP | 10, 12, 14, 21, 28 HP |
|--------------------|-----------------------|------------------------------------------------------------|-----------------------|
|--------------------|-----------------------|------------------------------------------------------------|-----------------------|



| Dimensions table |        |        |
|------------------|--------|--------|
| Width            | A      | w      |
| HP               | mm     | mm     |
| 7 HP             | 32.22  | —      |
| 10 HP            | 50.46  | 35.56  |
| 12 HP            | 60.62  | 45.72  |
| 14 HP            | 70.78  | 55.88  |
| 21 HP            | 106.34 | 91.44  |
| 28 HP            | 141.90 | 127.00 |

## DIMENSIONS

## FRONT HANDLE

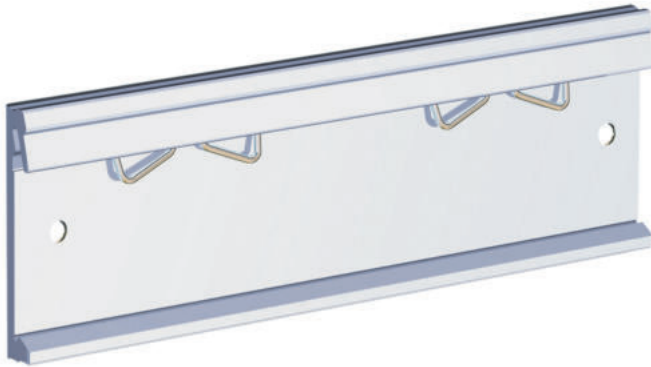


A4-328e

| Dimensions table |       |
|------------------|-------|
| Width            | Width |
| HP               | mm    |
| 10 HP            | 49.4  |
| 12 HP            | 59.6  |
| 14 HP            | 69.7  |
| 21 HP            | 105.2 |
| 28 HP            | 140.8 |

# HF frame type plug-in units

## ADAPTOR FOR HORIZONTAL RAIL MOUNTING



- For fitting of e.g. subracks, wall mounted cases, frame type plug-in units or PSUs on a horizontal rail with lip
- Adaptor is bolted to the desired product and can then be clipped onto the lipped horizontal rail (DIN 43880)

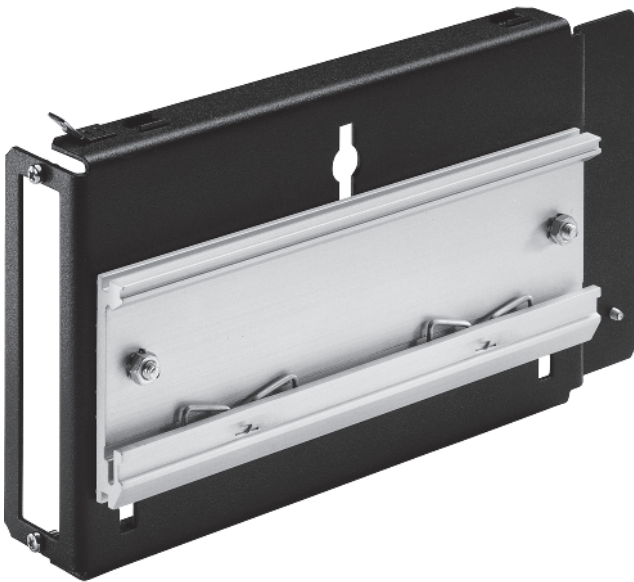
### DELIVERY COMPRISES

| Item | Qty | Description                          |
|------|-----|--------------------------------------|
| 1    | 1   | Adaptor, Al extrusion, length 160 mm |
| 1    | 1   | Fixing material                      |

### ORDER INFORMATION

| Description                          | Part no.         |
|--------------------------------------|------------------|
| Adaptor for horizontal rail mounting | <b>11000-002</b> |

04812021



Example: horizontal rail adaptor with lip for 19" PSU

11395007

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