

Schroff®
MAIN CATALOG

EQUIPMENT PROTECTION SOLUTIONS

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07 Front panels, plug-in units

Overview 0

Cabinets 1

Wall mounted
cases 2

Accessories for
cabinets and wall
mounted cases 3

Climate control 4

Desk-top 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

Front panels, plug-in units, frame-type plug-in units

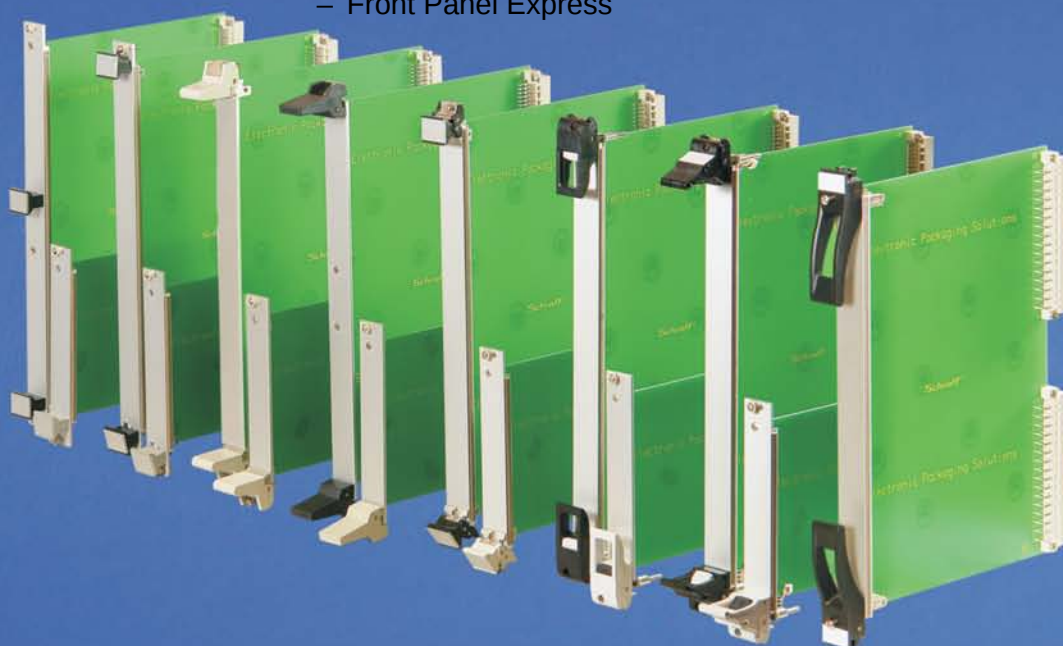
Front panels

- Extensive standard range
- Individual modification to customer requirements:
drill holes, cut-outs
- Individual printing
- Front Panel Express



Plug-in units

- Front panels with handles in various designs
 - Extensive standard range
 - Individual modification to customer requirements:
drill holes, cut-outs
 - Individual printing
 - Front Panel Express



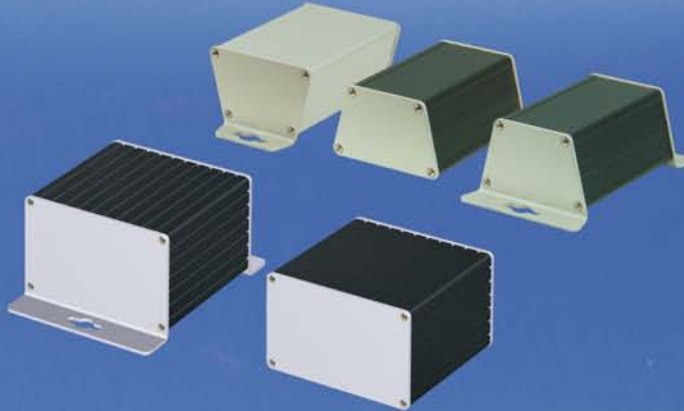
Frame-type plug-in units

- To hold and protect PCBs
- High stability
- Outstanding cooling
- With or without EMC shielding



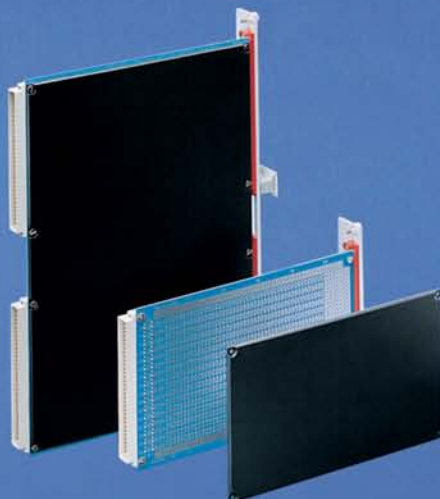
minipac

- Convenient small case - flexible enough for all your requirements
- To accommodate non-standardised or standardised PCBs
- As desktop enclosure, for wall mounting or mounting on a DIN support rail



Accessories

- Brackets, handles, covers
- Assembly material
- Tools



Overview 7.0

Front panels . 7.2

Plug-in units . 7.16

Frame type
plug-in units . 7.64

minipac 7.98

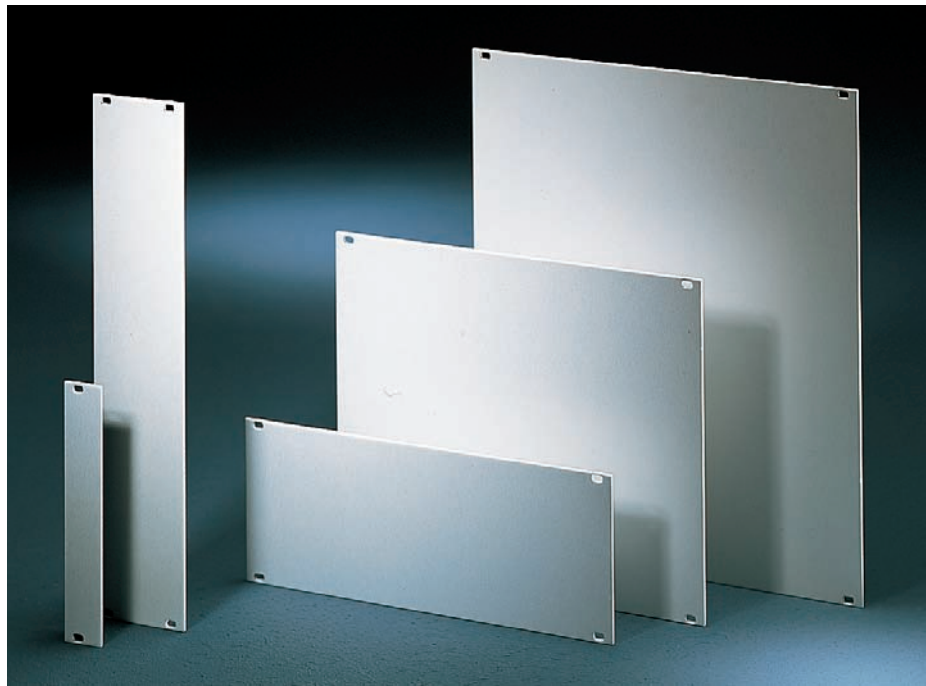
PCB
accessories.. 7.102

Assembly
material 7.107

Modules to mount
drive units
see chapter
System
Accessories . 8.110

Overview	0
Cabinets	1
Wall mounted cases	2
Accessories for cabinets and wall mounted cases	3
Climate control	4
Desk-top 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

Front panels



04292001

Standards

- IEC 60297-3-101/IEEE 1101.1/10



ServicePLUS

- e.g. individual colouring
- e.g. customised cut-outs
- e.g. printing
- e.g. mounting service
- e.g. special dimensions

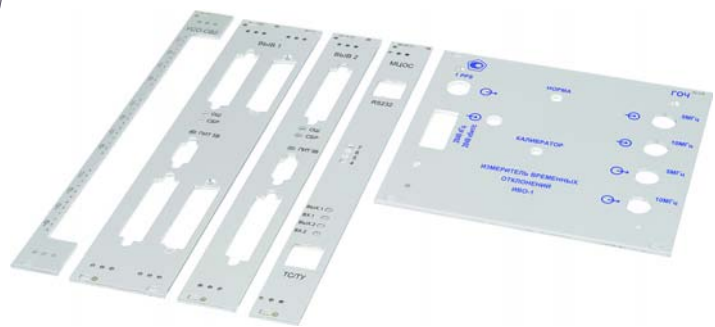
www.frontpanelexpress.eu

30407004

FRONT PANEL EXPRESS



32304003



04210001 04603009



Downloads and further important information can be found on the Internet under www.schroff.biz

Front panels for fitting in subracks, cases and systems

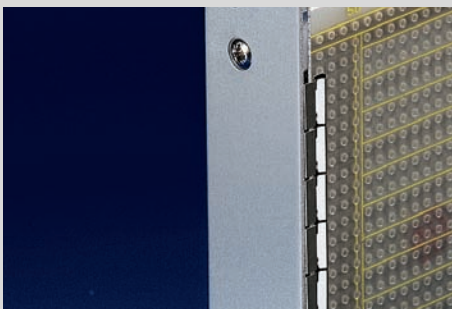
- Extensive standard range with various finishes and materials (aluminium or stainless steel)
- Front Panel Express:
Fast delivery service of customised versions (from 2 days)
- EMC shielding retrofittable



04292001

Front panels, unshielded

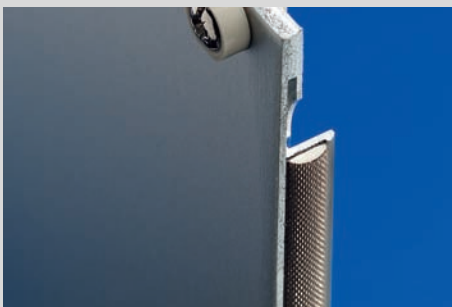
- Aluminium, clear anodised
- Aluminium, clear pre-anodised, cut edge untreated
- Aluminium, front anodised, rear iridescent green chromated
- Other finishes on request



04600006

Front panels shieldable, flat

- With lateral grooves to fit EMC gaskets (stainless steel)
- Compatible with the shielded U profile version



04602004

Front panels, shieldable, U profile

- With lateral groove to fix a textile self-adhesive EMC gasket
- Compatible with the shielded flat version
- High robustness through U profile



04295001 04295002

Further front panels

- Hinged/folding front panels
- Front panels with GND/earthing
- Mezzanine front panels
- AdvancedTCA front panels
- MicroTCA front panels
- AdvancedMC front panels

Front panels

- Unshielded 7.4
- Shieldable 7.5
- EMC stainless steel gaskets ... 7.6
- Assembly tool .. 7.6

Front panels

- Shieldable (U profile) 7.7
- EMC textile gasket 7.6

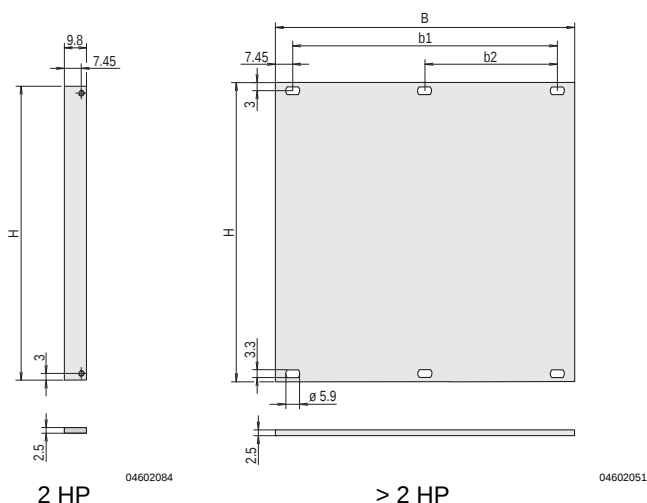
Further front panels

- Hinged 7.8
- Hinged, shielded 7.9
- For D-Sub connectors 7.10
- For Coax connectors 7.11
- 3 U with GND/earthing 7.11
- Mezzanine front panels 7.12

- Assembly kit ... 7.107
- AdvancedTCA front panels 8.12
- MicroTCA front panels 8.65
- AdvancedMC front panels 8.60

Front panels

Front panels, unshielded



■ Front panel, Al, 2.5 mm

■ Versions:

- Al, anodised
- Al, anodised, cut edges plain
- Al, front anodised, rear iridescent green chromated

Note

- Other sizes and finishes available on request
- Please order fixing material separately, see chapter Assembly parts, page 7.107

Order Information

Height H	Width	B	b1	b2	Qty	Anodised, cut edges plain	Anodised	Front anodised, rear colorless chromated
U	mm	HP	mm	mm	1)	Part no.	Part no.	Part no.
1	39.5	84	426.4	411.5	203.2	1	–	20850-426
2	84.0	84	426.4	411.5	203.2	1	30818-271	30807-416
3	128.4	2	9.8	–	–	1 (SPQ 5) ¹⁾	30810-433	30810-432
3	128.4	3	14.9	–	–	1 (SPQ 5) ¹⁾	30818-272	30807-508
3	128.4	4	20.0	–	–	1 (SPQ 5) ¹⁾	30818-273	30807-481
3	128.4	5	25.0	–	–	1 (SPQ 5) ¹⁾	30818-274	30807-510
3	128.4	6	30.1	–	–	1 (SPQ 5) ¹⁾	30818-275	30807-482
3	128.4	7	35.2	–	–	1 (SPQ 5) ¹⁾	30818-276	30807-509
3	128.4	8	40.3	25.4 ²⁾	–	1 (SPQ 5) ¹⁾	30818-277	30807-484
3	128.4	10	50.5	35.6	–	1 (SPQ 5) ¹⁾	30818-279	30807-483
3	128.4	12	60.6	45.7	–	1 (SPQ 5) ¹⁾	30818-281	30807-485
3	128.4	14	70.8	55.9	–	1 (SPQ 5) ¹⁾	30818-282	30807-501
3	128.4	21	106.3	91.4	–	1 (SPQ 5) ¹⁾	30818-289	30807-487
3	128.4	28	141.9	127.0	–	1 (SPQ 5) ¹⁾	30818-296	30807-496
3	128.4	42	213.0	198.1	101.6 ²⁾	1	30818-310	30807-494
3	128.4	63	319.7	304.8	157.5	1	30818-331	30808-067
3	128.4	84	426.4	411.5	203.2	1	30818-352	30807-506
4	172.9	84	426.4	411.5	203.2	1	30818-434	30807-596
6	261.8	2	9.8	–	–	1 (SPQ 5) ¹⁾	30818-747	30818-741
6	261.8	4	20.0	–	–	1 (SPQ 5) ¹⁾	30818-518	30807-778
6	261.8	5	25.0	–	–	1 (SPQ 5) ¹⁾	30818-519	30807-777
6	261.8	6	30.1	–	–	1 (SPQ 5) ¹⁾	30818-520	30807-752
6	261.8	7	35.2	–	–	1 (SPQ 5) ¹⁾	30818-521	–
6	261.8	8	40.3	25.4 ²⁾	–	1 (SPQ 5) ¹⁾	30818-522	30807-779
6	261.8	10	50.5	35.6	–	1 (SPQ 5) ¹⁾	30818-524	30807-753
6	261.8	12	60.6	45.7	–	1 (SPQ 5) ¹⁾	30818-526	30807-755
6	261.8	14	70.8	55.9	–	1 (SPQ 5) ¹⁾	30818-528	30807-758
6	261.8	16	80.9	66.0	–	1 (SPQ 5) ¹⁾	30818-530	30807-780
6	261.8	21	106.3	91.4	–	1 (SPQ 5) ¹⁾	30818-535	30807-757
6	261.8	28	141.9	127.0	–	1 (SPQ 5) ¹⁾	30818-542	30807-766
6	261.8	42	213.0	198.1	101.6 ²⁾	1	30818-556	30807-764
6	261.8	63	319.7	304.8	157.5	1	30818-577	30807-771
6	261.8	84	426.4	411.5	203.2	1	30818-598	30807-776
9	395.1	84	426.4	411.5	203.2	1	–	–

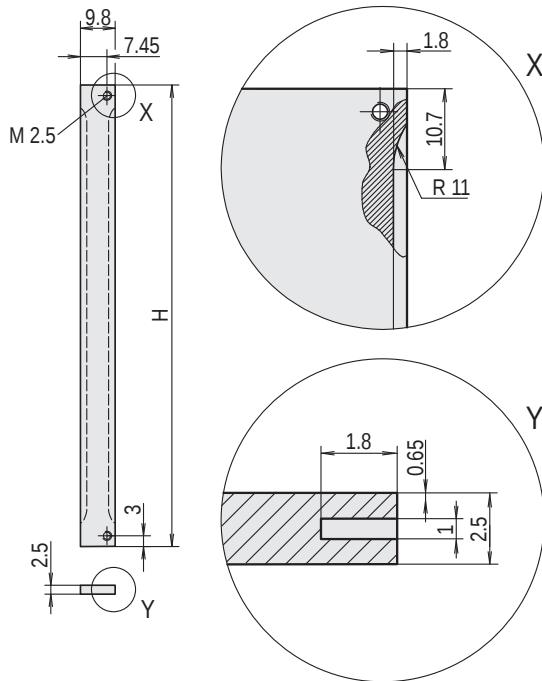
1) SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple

2) This dimension is only available for "front anodised, rear iridescent green chromated" version

■ Please order fixing material (sleeves, collar screws) separately, see page 7.107

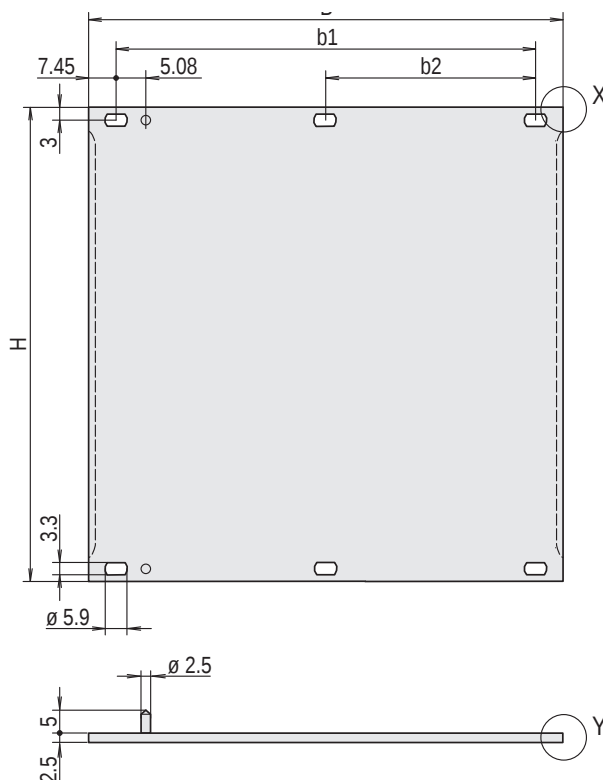
Front panels

Front panels, shieldable



2 HP

04602052



> 2 HP

04608154

- Front panel, Al, 2.5 mm, front anodised, rear iridescent green chromated, 2 alignment pins pressed-in, stainless steel
- Shielding with stainless steel EMC gasket

Order Information

Height H U	mm	Width B HP	mm	b1 mm	b2 mm	Align- ment pin	Qty	Part no.
2	84	84	426.4	411.5	203.2	–	1	30846-588
3	128.4	2	9.8	–	–	–	1 (SPQ 5) ¹⁾	30846-864
3	128.4	3	14.9	–	–	x	1 (SPQ 5) ¹⁾	20846-425
3	128.4	4	20	–	–	x	1 (SPQ 5) ¹⁾	20846-426
3	128.4	5	25	–	–	x	1 (SPQ 5) ¹⁾	20846-427
3	128.4	6	30.1	–	–	x	1 (SPQ 5) ¹⁾	20846-428
3	128.4	7	35.2	–	–	x	1 (SPQ 5) ¹⁾	20846-429
3	128.4	8	40.3	25.4	–	x	1 (SPQ 5) ¹⁾	20846-430
3	128.4	10	50.5	35.6	–	x	1 (SPQ 5) ¹⁾	20846-431
3	128.4	12	60.6	45.7	–	x	1 (SPQ 5) ¹⁾	20846-432
3	128.4	14	70.8	55.9	–	x	1 (SPQ 5) ¹⁾	20846-433
3	128.4	21	106.3	91.4	–	x	1 (SPQ 5) ¹⁾	20846-434
3	128.4	28	141.9	127	–	x	1 (SPQ 5) ¹⁾	20846-436
3	128.4	42	213	198.1	101.6	x	1	20846-437
3	128.4	63	319.7	304.8	157.5	x	1	20846-438
3	128.4	84	426.4	411.5	203.2	–	1	30846-676
4	172.9	84	426.4	411.5	203.2	–	1	30846-683
6	261.8	2	9.8	–	–	–	1 (SPQ 5) ¹⁾	30846-865
6	261.8	4	20	–	–	x	1 (SPQ 5) ¹⁾	20846-443
6	261.8	5	25	–	–	x	1 (SPQ 5) ¹⁾	20846-444
6	261.8	6	30.1	–	–	x	1 (SPQ 5) ¹⁾	20846-445
6	261.8	7	35.2	–	–	x	1 (SPQ 5) ¹⁾	20846-446
6	261.8	8	40.3	25.4	–	x	1 (SPQ 5) ¹⁾	20846-447
6	261.8	10	50.5	35.6	–	x	1 (SPQ 5) ¹⁾	20846-448
6	261.8	12	60.6	45.7	–	x	1 (SPQ 5) ¹⁾	20846-449
6	261.8	14	70.8	55.9	–	x	1 (SPQ 5) ¹⁾	20846-450
6	261.8	16	80.9	66	–	x	1 (SPQ 5) ¹⁾	20846-456
6	261.8	21	106.3	91.4	–	x	1 (SPQ 5) ¹⁾	20846-451
6	261.8	28	141.9	127	–	x	1 (SPQ 5) ¹⁾	20846-452
6	261.8	42	213	198.1	101.6	x	1	20846-453
6	261.8	63	319.7	304.8	157.5	x	1	20846-454
6	261.8	84	426.4	411.5	203.2	–	1	30846-771
9	395.1	84	426.4	411.5	203.2	–	1	30846-859

Delivery is exclusively made in Standard Pack Quantity (SPQ):
Please order at least 5 pieces or a multiple.
Pricing is per individual item.

Note

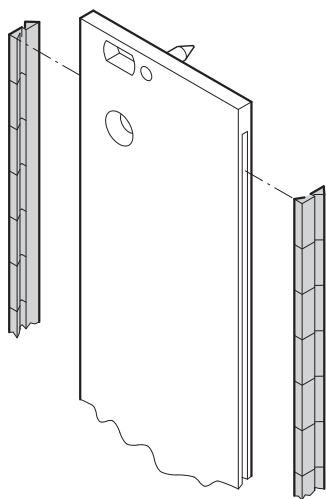
- Please order fixing material (sleeves, collar screws) separately, see page 7.107
- Please order stainless steel EMC gasket separately, see page 7.6



For further information www.schroff.biz/oneclick
oneClick search code = Part no.

Front panels

Stainless steel EMC gasket



- The stainless steel EMC gaskets are inserted into the lateral slots of the shieldable front panels (2 pieces per front panel)

Delivery comprises

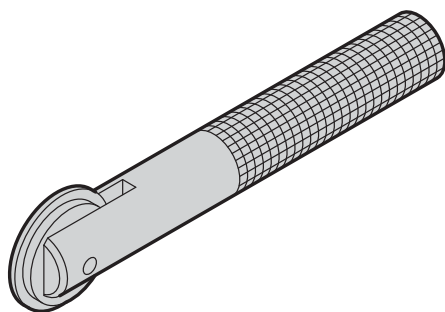
Item	Qty	Description
1	10/100	EMC gasket (stainless steel)

Order Information

Height U	Height mm	Qty/PU	Part no.
2	52	10	21101-775
3	97	10	21101-705
3	97	100	21101-706
4	142	10	21101-713
4	142	100	21101-714
5	187	10	21101-777
5	187	100	21101-778
6	232	10	21101-707
6	232	100	21101-708
9	367	10	21101-709
9	367	100	21101-710
Assembly tool for EMC gasket (stainless steel), 1 piece			24560-270

bga45760

Assembly tool



aza45937

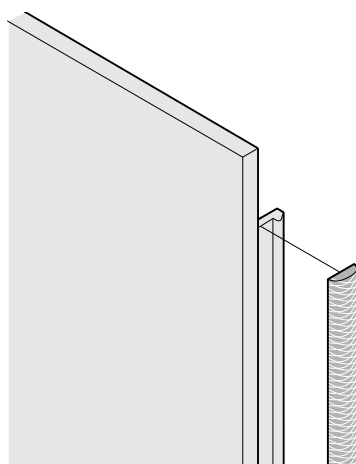
Note

- Please order assembly tool separately



For further information www.schroff.biz/oneclick
oneClick search code = Part no.

Textile EMC gasket



- The textile EMC gasket is glued laterally on the front panel, in the groove of the right-hand profile
- Temperature range -40 °C ... +70 °C

Delivery comprises ()

Item	Qty	Description
1	10/100	Textile EMC gasket, core: foam, sleeve: textile cladding with CuNi coating

Order Information

Height U	Height mm	Qty/PU	Part no.
2	52	10	21101-857
3	97	10	21101-853
3	97	100	21101-854
4	142	10	21101-858
5	187	10	21101-978
6	232	10	21101-855
6	232	100	21101-856
9	365	10	21101-859
9	365	100	21101-904

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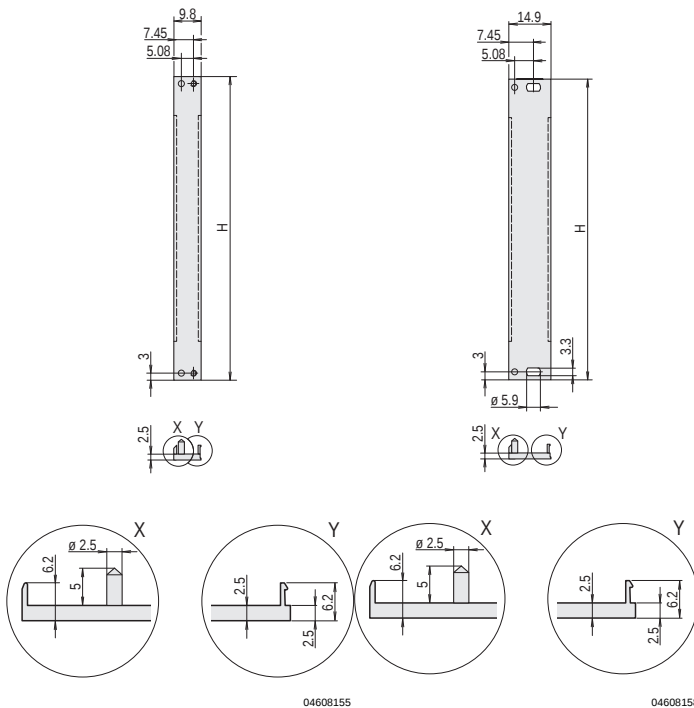
For further information www.schroff.biz/oneclick
oneClick search code = Part no.

Front panels

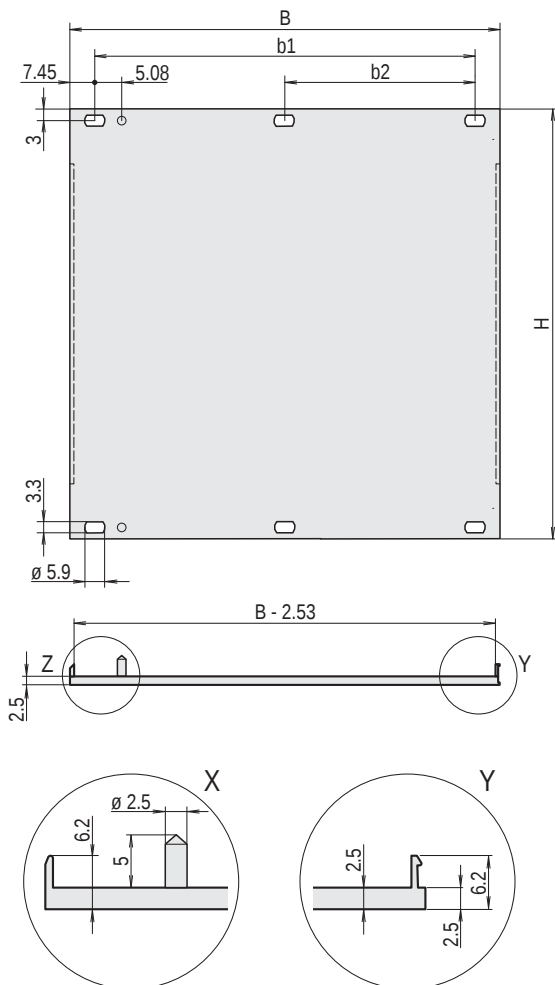
Front panels, U profile, shieldable

2 HP

3 U



> 3 HP



- High stability through U profile
- Front panel, U profile, Al, front anodised, rear conductive, 2 alignment pins pressed-in, stainless steel
- Differences in the finish between 2 ... 12 HP and 14 ... 84 HP

Order Information

Height H	Width B	b1	b2	Align-	Qty	Part no.		
U mm	HP	mm	mm	ment				
				pin				
2	84	84	426.4	411.5	203.2	—	1 (SPQ 5) ¹⁾	20848-262
3	128.4	2	9.8	—	—	x	1 (SPQ 5) ¹⁾	30849-001
3	128.4	3	14.9	—	—	x	1 (SPQ 5) ¹⁾	30849-004
3	128.4	4	20	—	—	x	1 (SPQ 5) ¹⁾	30848-354
3	128.4	5	25	—	—	x	1 (SPQ 5) ¹⁾	30848-378
3	128.4	6	30.1	—	—	x	1 (SPQ 5) ¹⁾	30848-380
3	128.4	7	35.2	—	—	x	1 (SPQ 5) ¹⁾	30848-382
3	128.4	8	40.3	25.4	—	x	1 (SPQ 5) ¹⁾	30848-356
3	128.4	10	50.5	35.6	—	x	1 (SPQ 5) ¹⁾	30848-386
3	128.4	12	60.6	45.7	—	x	1 (SPQ 5) ¹⁾	30848-358
3	128.4	14	70.8	55.9	—	x	1 (SPQ 5) ¹⁾	20848-013
3	128.4	16	80.9	66	—	x	1 (SPQ 5) ¹⁾	20848-015
3	128.4	21	106.3	91.4	—	x	1 (SPQ 5) ¹⁾	20848-020
3	128.4	28	141.9	127	—	x	1 (SPQ 5) ¹⁾	20848-027
3	128.4	42	213	198.1	101.6	x	1	20848-047
3	128.4	63	319.7	304.8	157.5	x	1	20848-068
3	128.4	84	426.4	411.5	203.2	—	1	20848-097
4	172.9	84	426.4	411.5	203.2	—	1	20848-271
6	261.8	2	9.8	—	—	x	1 (SPQ 5) ¹⁾	30849-002
6	261.8	4	20	—	—	x	1 (SPQ 5) ¹⁾	30848-355
6	261.8	5	25	—	—	x	1 (SPQ 5) ¹⁾	30848-379
6	261.8	6	30.1	—	—	x	1 (SPQ 5) ¹⁾	30848-381
6	261.8	7	35.2	—	—	x	1 (SPQ 5) ¹⁾	30848-383
6	261.8	8	40.3	25.4	—	x	1 (SPQ 5) ¹⁾	30848-357
6	261.8	10	50.5	35.6	—	x	1 (SPQ 5) ¹⁾	30848-387
6	261.8	12	60.6	45.7	—	x	1 (SPQ 5) ¹⁾	30848-359
6	261.8	14	70.8	55.9	—	x	1 (SPQ 5) ¹⁾	20848-106
6	261.8	16	80.9	66	—	x	1 (SPQ 5) ¹⁾	20848-108
6	261.8	21	106.3	91.4	—	x	1 (SPQ 5) ¹⁾	20848-113
6	261.8	28	141.9	127	—	x	1 (SPQ 5) ¹⁾	20848-120
6	261.8	42	213	198.1	101.6	x	1	20848-139
6	261.8	63	319.7	304.8	157.5	x	1	20848-160
6	261.8	84	426.4	411.5	208.3	—	1	20848-189
9	395.1	84	426.4	411.5	203.2	—	1	20848-280

1) Delivery is exclusively made in Standard Pack Quantity (SPQ): Please order at least 5 pieces or a multiple.
Pricing is per individual item.

Note

- Differences in finish between 2 ... 12 HP and 14 ... 84 HP
 - 2 ... 12 HP: one-part U-profile
 - 14 ... 84 HP: multi-part U-profile (front panel with crimped profiles)
- Please order fixing material (sleeves, collar screws) separately, see page 7.107
- Please order textile EMC gasket separately, see page 7.6

Front panels

Front panels, bottom-hinged



04295001

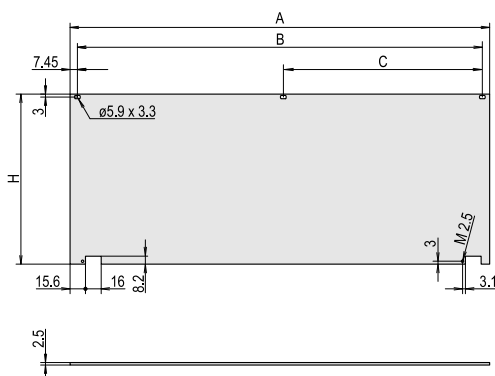
- Suitable for subracks (europacPRO) and cases (ratiopacPRO, propacPRO, compacPRO)
- Front panel can be unhinged at 135° (not ratiopacPRO) opening angle
- The useable width is not restricted
- Mounts on the horizontal rails
- 2 versions:
 - unshielded
 - shielded, U front panel with textile EMC gasket

Delivery comprises (kit)

Item	Qty		Description
	Unshielded	Shielded	
1	1	-	Front panel, hinged, Al, 2.5 mm, anodised, cut edges plain
1a	-	1	Front panel, U profile, hinged, Al, 2.5 mm, front anodised, rear iridescent green chromated
2	2	3	Hinge, Zn die-cast, nickel-plated
3	2	3	Sleeve, PA
4	2	3	Knurled screw M2.5 x 12.3, nickel-plated
5	-	1	EMC textile gasket, core: foam, sleeve: textile cladding with CuNi coating
6	1	1	Assembly kit

Unshielded

04602080

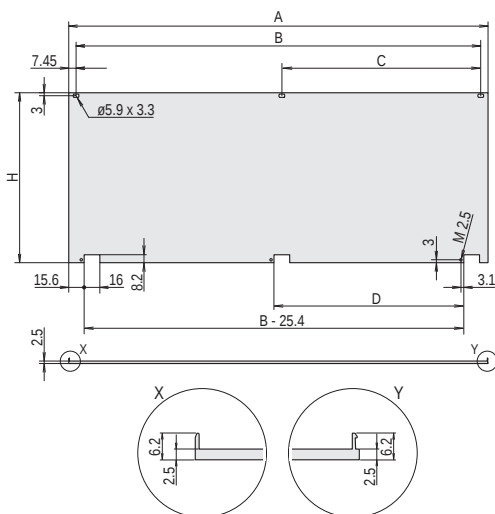


Note

- Unshielded: Dimension C for 84 HP only

Shielded

04602079



Order Information

Dimensions							Shielded	Unshielded
Height	Width	A	B	C	D	H	Part no.	Part no.
U	HP	mm	mm	mm	mm	mm		
3	28	141.9	127.0	—	—	128.4	20848-608	20838-280
3	42	213.0	198.1	101.6	86.4	128.4	20848-599	20838-271
3	63	319.7	304.8	157.5	137.2	128.4	20848-600	20838-272
3	84	426.4	411.5	208.3 ¹⁾	193.0	128.4	20848-601	20838-273
4	42	213.0	198.1	101.6	86.4	172.9	20848-605	20838-277
4	63	319.7	304.8	157.5	137.2	172.9	20848-606	20838-278
4	84	426.4	411.5	208.3 ¹⁾	193.0	172.9	20848-607	20838-279
6	28	141.9	127.0	—	—	261.8	20848-696	—
6	42	213.0	198.1	101.6	86.4	261.8	20848-602	20838-274
6	63	319.7	304.8	157.5	137.2	261.8	20848-603	20838-275
6	84	426.4	411.5	208.3 ¹⁾	193.0	261.8	20848-604	20838-276

1) Dimension with unshielded front panel

Front panels

Front panel, hinged,
shielded



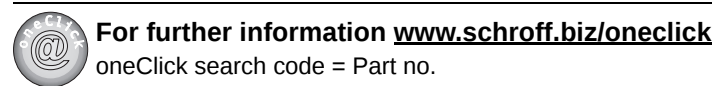
- Suitable for subracks (europacPRO) and cases (ratiopacPRO, propacPRO, compacPRO)
- Mounts on horizontal rails
- Front panel with textile EMC gasket
- Hinges can be fitted on left or right

Delivery comprises (kit)

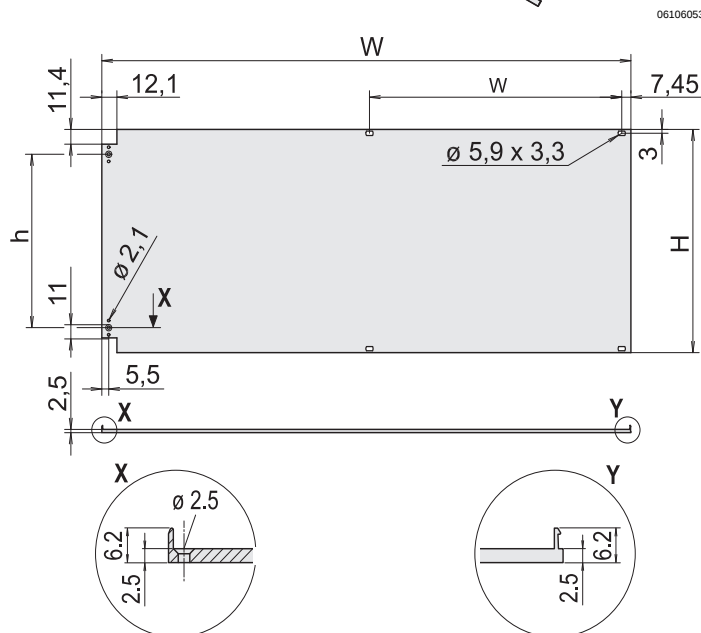
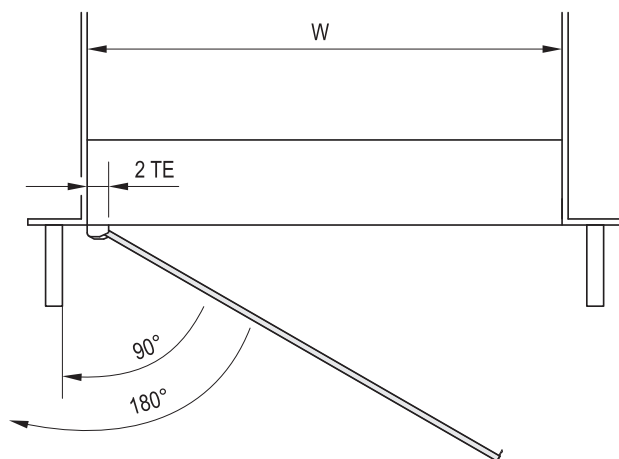
Item	Qty	Description
1	1	Front panel, hinged, Al, 2.5 mm, front anodised, rear iridescent green chromated
2	2	Hinge, Zn die-cast, chrome-plated
3	1	Textile EMC gasket, core: foam, sleeve: textile cladding with CuNi coating
4	1	Assembly kit

Order Information

Height	H	h	W	w	Part no.
U	mm	mm	mm	mm	
3	128.4	89.9	426.4	203.2	20848-611
6	261.8	223.2	426.4	203.2	20848-617

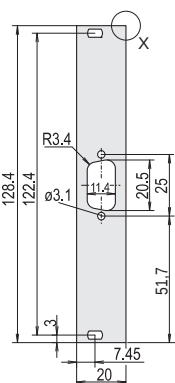


 For further information www.schroff.biz/oneclick
oneClick search code = Part no.

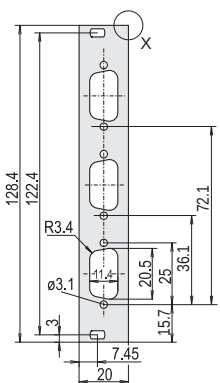
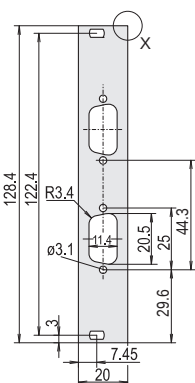


Front panels

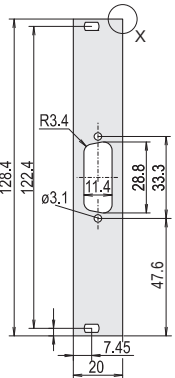
Front panels for D-Sub connectors



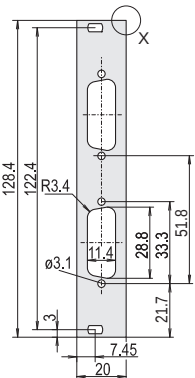
Cut-out 9-pin



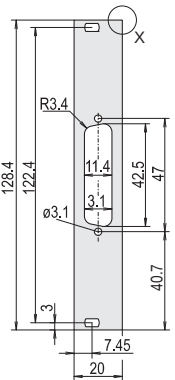
04608141 04608142 04608143



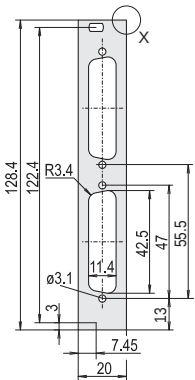
Cut-out 15-pin



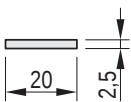
04608144 04608145



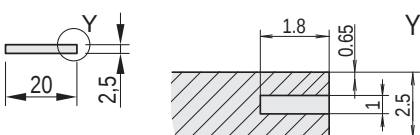
Cut-out 25-pin



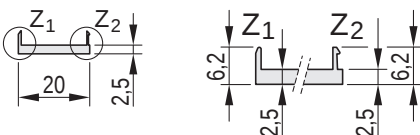
04608146 04608147



Unshielded



EMC gasket, stainless steel



For textile EMC gasket

04608150 04608151 04608149 04608148 04808152 04808153

- 3 U/4 HP
- Aluminium, front anodised, rear iridescent green chromated
- Shielding through: stainless steel EMC or textile EMC gasket (please order separately)

Delivery comprises

Item	Description
1a	Front panel, Al, 2.5 mm, front anodised, rear iridescent green chromated
1b	Front panel, Al, 2.5 mm, front anodised, rear iridescent green chromated; for EMC stainless steel gasket
1c	Front panel, U profile, Al, 2.5 mm, front anodised, rear conductive; for EMC gasket (textile)

Order Information

Cut-out	Qty	Unshielded	For EMC gasket	
		Part no. 1a	Stainless steel Part no. 1b	Textile Part no. 1c
1 × 9-polig	1 piece (SPQ 5)	30118-341	30118-348	30849-749
2 × 9-polig	1 piece (SPQ 5)	30118-344	30118-351	30849-750
3 × 9-polig	1 piece (SPQ 5)	30118-347	30118-354	30849-751
1 × 15-polig	1 piece (SPQ 5)	30118-342	30118-349	30849-752
2 × 15-polig	1 piece (SPQ 5)	30118-345	30118-352	30849-753
1 × 25-polig	1 piece (SPQ 5)	30118-343	30118-350	30849-754
2 × 25-polig	1 piece (SPQ 5)	30118-346	30118-353	30849-755

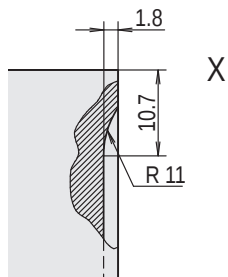
Delivery is exclusively made in Standard Pack Quantity (SPQ):
Please order at least 5 pieces or a multiple.
Pricing is per individual item.

Note

- Please order fixing material (sleeves, collar screws) separately, see page 7.107
- Please order stainless steel EMC gasket separately, see page 7.6
- Please order textile EMC gasket separately, see page 7.6

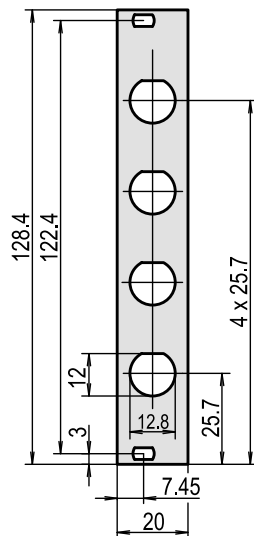


For further information www.schroff.biz/oneclick
oneClick search code = Part no.



Front panels

Front panels for Coax connectors



04602057

- 3 U/4 HP
- Aluminium, 2.5 mm, front anodised, rear iridescent green chromated

Order Information

Description	Qty/PU	Part no.
Cut-out 4 x Coax, unshielded	1	30118-355

Note

- Please order fixing material (sleeves, collar screws) separately, see page 7.107



For further information www.schroff.biz/oneclick
oneClick search code = Part no.

Front panels 3 U with GND/earthing connection



02998001

- Earthed front panel (protection class 1)

Delivery comprises (items 1 – 3 assembled)

Item	Qty	Description
1	1	Front panel 3 U, Al, 2.5 mm, front anodised, rear iridescent green chromated with GND/earthing connection
2	4	Plastic sleeve, PA, grey
3	4	Collar screws, M2.5 x 11 and 12.3 Pozidrive, St, nickel-plated
4	1	GND/earthing kit, length of GND/earthing cable 320 mm

Order Information

Height	Width	Qty	Part no.
U	HP		
3	7	1 piece (SPQ 5)	20119-159
3	14	1 piece (SPQ 5)	20119-160
3	21	1 piece (SPQ 5)	20119-161
3	28	1 piece (SPQ 5)	20119-162
3	42	1	20119-163

Delivery is exclusively made in Standard Pack Quantity (SPQ):
Please order at least 5 pieces or a multiple.
Pricing is per individual item.

Note

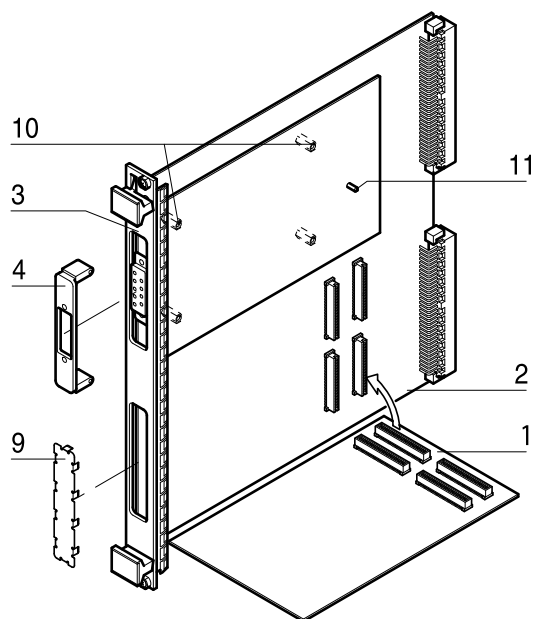
- Please order fixing material (sleeves, collar screws) separately, see page 7.107



For further information www.schroff.biz/oneclick
oneClick search code = Part no.

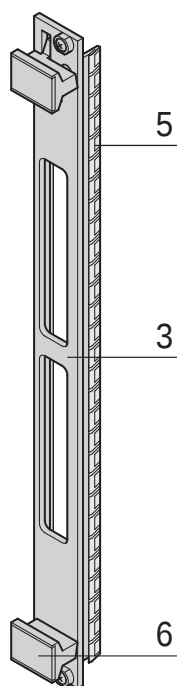
Front panels

Mezzanine front panels



- Based on PCI 2.2 specification
(PCI = Peripheral Component Interface)
- In accordance with PMC mezzanine specification IEEE P 1386
- In accordance with PC-MIP mezzanine specification VITA-29

PMC mezzanine front panel with handle, shielded



- PMC= PCI Mezzanine Card
- For module size 194 x 74 mm2
- In accordance with specification IEEE P1386
(CMC= Common Mezzanine Card)
- 6 U/4 HP front panel with stainless steel EMC gasket and front handles

Delivery comprises (assembled)

Item	Qty	Description
3	1	PMC front panel, Al extrusion, 6 U, 4 HP, iridescent green chromated
5	1	EMC gasket (St, stainless)
6	2	Front handle

Order Information

Item	Description	Part no.
3+5+6	Front panel with 2 cut-outs	20897-950



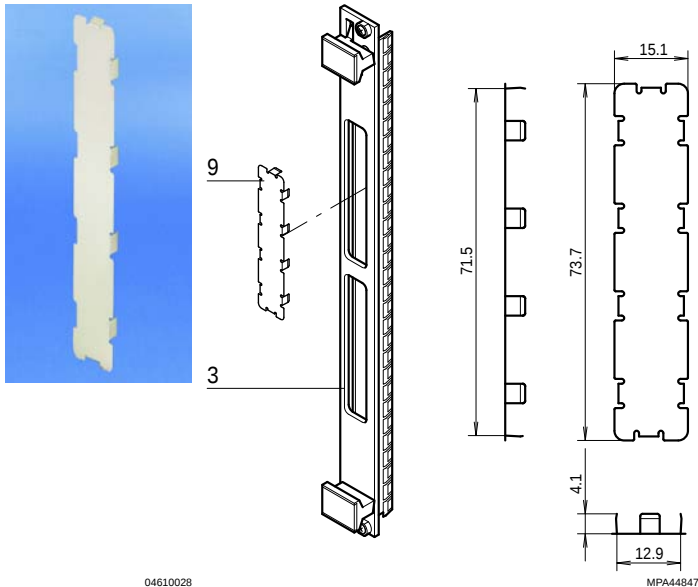
For further information www.schroff.biz/oneclick
oneClick search code = Part no.

Item 3: front panel, item 5: EMC gasket, item 6: front handle

MPA44845

Front panels

EMC cover for PMC mezzanine front panel cut-outs



04610028

Item 9: EMC cover; Item 3: front panel

MPA44847

- EMC cover to close unused cut-outs in the PMC mezzanine front panels
- Material stainless steel, 0.2 mm
- Colour: black or bright

Order Information

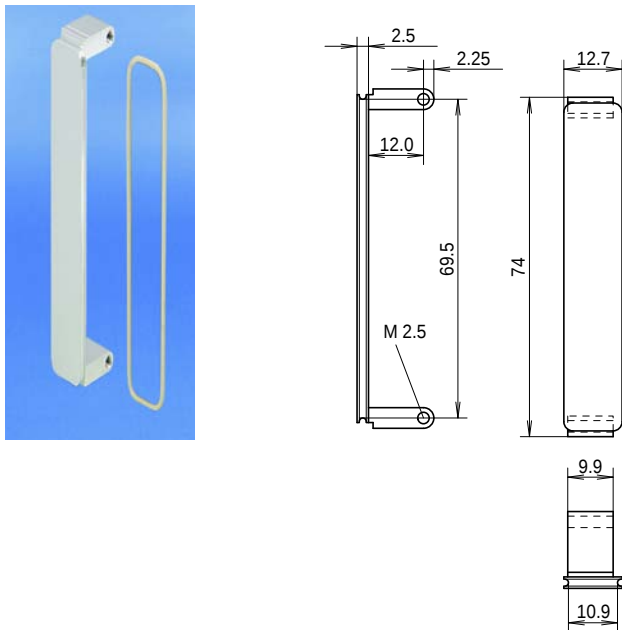
Colour	Qty	Part no.
Black	1 piece (SPQ 10)	60835-024
Bright	1 piece (SPQ 10)	60835-022

Delivery is exclusively made in Standard Pack Quantity (SPQ):
Please order at least 10 pieces or a multiple.
Pricing is per individual item.



For further information www.schroff.biz/oneclick
oneClick search code = Part no.

PMC mezzanine front panels



04610029

MPA44846

- Mezzanine front panel is fitted into PMC front panel cut-outs; EMC shielding with conductive O-ring
- Material:
 - Aluminium extrusion (anodised, contact surfaces conductive)
 - Zinc die-cast (untreated, black or chrome-plated, matt)

Delivery comprises (kit)

Item	Qty	Description
4	1	PMC mezzanine front panel, Zn die-cast or Al extrusion
7	1	EMC gasket (O-ring), Cho-Seal

Order Information

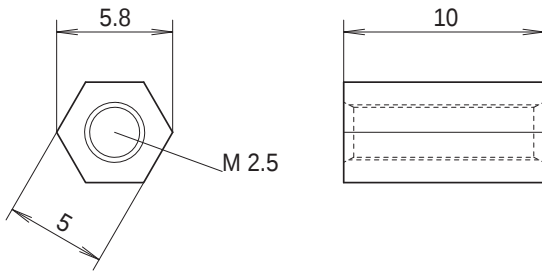
PMC mezzaninefront panel	Qty/PU	with EMC gasket Part no.	without EMC gasket Part no.
Material			
Al extrusion, anodised, contact surfaces conductive	1	20835-598	–
Al extrusion, anodised, contact surfaces conductive	10	20835-889	20835-899
Zn die-cast, untreated	1	20835-890	–
Zn die-cast, untreated	10	20835-893	20835-896
Zinc die-cast, black, chromated	1	20835-922	–
Zinc die-cast, black, chromated	10	20835-924	20835-931
Zinc die-cast, chrome-plated, matt	1	20835-923	–
Zinc die-cast, chrome-plated, matt	10	20835-928	20835-929
Cheesehead screw M2.5 × 5 mm, PU 100 pieces			21100-624
EMC gasket O-ring, 1 piece (Standard Pack Quantity 10 pieces)			60835-021



For further information www.schroff.biz/oneclick
oneClick search code = Part no.

Front panels

Spacer to mount PMC mezzanine boards



MPA44850

Order Information

Description	Item	Material	Qty	Part no.
Spacer	10	St, zinc-plated	1 piece (SPQ 10)	60897-278

Delivery is exclusively made in Standard Pack Quantity (SPQ):

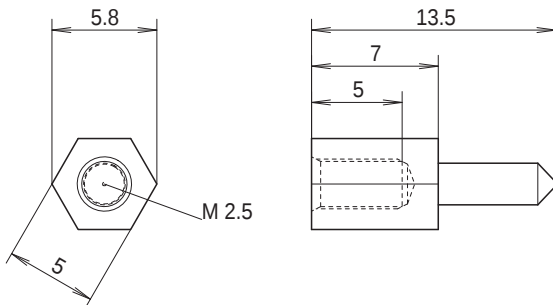
Please order at least 10 pieces or a multiple.

Pricing is per individual item.



For further information www.schroff.biz/oneclick
oneClick search code = Part no.

Voltage keying/coding pin for PMC mezzanine boards



MPZU6325

- To prevent accidental damage when fitting mezzanine boards, keying/coding pins are bolted to the VMEbus boards to distinguish between 3.3 V and 5 V operation. The mezzanine boards have a hole drilled in the appropriate position. The keying/coding pin thus ensures that only mezzanine boards with the same operating voltage can be inserted. For double-height euroboards 2 pieces are required.

Order Information

Description	Item	Material	Qty	Part no.
Keying/coding pin 5 V/3.3 V	11	St, zinc-plated	1 piece (SPQ 10)	60827-026

Delivery is exclusively made in Standard Pack Quantity (SPQ):

Please order at least 10 pieces or a multiple.

Pricing is per individual item.



For further information www.schroff.biz/oneclick
oneClick search code = Part no.

Front panels

Overview 0

Cabinets 1

Wall mounted
cases 2

Accessories for
cabinets and wall
mounted cases 3

Climate control 4

Desk-top 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

Plug-in units



04612001

Plug-in units as kits or from individual parts

- Handles in different designs for various applications
- Inserter/extractor handles for forces up to 1500 N
- Upgradable EMC shielding

Standards

- IEC 60297-3-101 / IEEE 1101.1/11
- IEC 60297-3-102 / IEEE 1101.10
- IEC 60297-3-103
- IEC 1296



30407004

ServicePLUS

- e.g. individual configuration and assembly
- e.g. modifications (special colours or sizes)
- e.g. custom solutions with modification to the plug-in units

www.frontpanelexpress.eu



Downloads and further important information can be found on the Internet under www.schrack.biz

Plug-in units

Overview 7.17

Handles for plug-in units



04603002

For CompactPCI and VME64x applications

Inserter/extractor handle, type IEL/IET, allows keying/coding and insertion/extraction forces up to 700 N per pair

Kit
Page
Individual
components
Page

7.18 7.19

Plug-in units with injector and extractor handles

For CompactPCI and VME64x applications ... 7.18



04605005

For VPX, VXS, CompactPCI and VME64x applications

Inserter/extractor handle, type XL, allows keying/coding and insertion/extraction forces up to 1500 N per pair

– 7.29

For VPX, VXS, CompactPCI and VME64x applications ... 7.29



04604059

For e.g. VMEbus applications

Trapeziform extractor handle, type 2

7.31 7.33

For e.g. VMEbus applications type 2 7.31



04692008

For e.g. VMEbus applications

Trapeziform extractor handle, type 1

7.38 7.40

For e.g. VMEbus applications type 1 7.38



04692011

For Multibus® II applications

Extractor handle, multibus type II, IEC 60297

– 7.44

For Multibus® II applications 7.44



04692008

For plug-in units in accordance with IEC 60297

Extractor handle in key form 1

– 7.46

For plug-in units in accordance with IEC 60297 .. 7.46



04692010

For plug-in units in accordance with IEC 60297

Extractor handle in key form 2

– 7.49

For plug-in units in accordance with IEC 60297 .. 7.49



04692003

For plug-in units in accordance with IEC 60297

Static handle

7.52 7.54

For plug-in units in accordance with IEC 60297 .. 7.52



04692004

Accessories for plug-in units

Mechanical protection for static trapeziform handle and fixing materials kit

7.62 –

Accessories for plug-in units 7.60

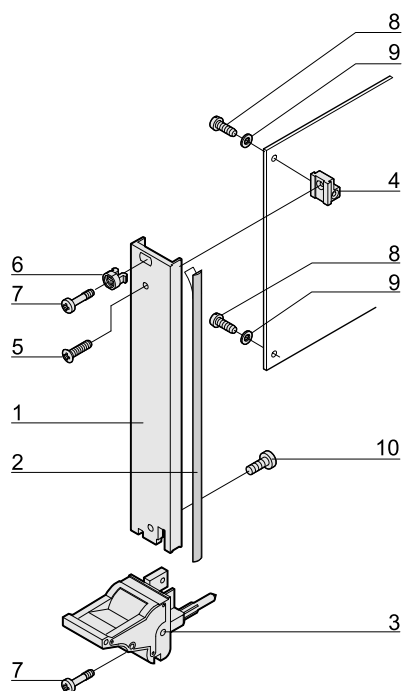
PCB cover 7.62

Plug-in units – for CompactPCI, VME64x

Kits

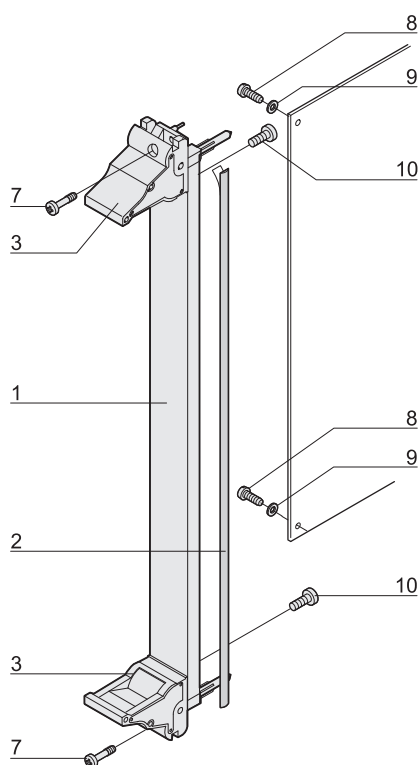
Plug-in units with IEL inserter/extractor handle for CompactPCI/VME64x applications

3 U



04602073

6 U



04602074

- In accordance with IEEE 1101.10 and IEC 60297-3-102
- Codable to IEC 60297-3-103/ IEEE 1101.10
- Front panel shielded
- Suitable for insertion and extraction forces up to 700 N (per pair)
- Suitable for fitting microswitches

Delivery comprises (kit)

Item	3 U		6 U		Description
	<8HP	≥8HP	<8HP	≥8HP	
1	1	1	1	1	Front panel (U profile), Al, front anodised, rear conductive
2	1	1	1	1	EMC sealing (textile), core: foam, sleeve: textile cladding, CuNi coated
3	1	1	2	2	Handle with integrated alignment pin for perforated strips and guide rails, lever: plastic, PC, black, RAL 9005 key: plastic, PC, light grey, RAL 7035
4	1	1	-	-	Board support, die-cast zinc
5	1	1	-	-	Raised Pozidrive countersunk screw M2.5 × 8, St, nickel-plated
6	1	3	-	2	Sleeve, PA, grey
7	2	4	2	4	Pozidrive collar screw, M2.5 × 12.3, St, nickel-plated
8	2	2	2	2	Panhead screw with Torx/slot, M2.5 × 6, St, zinc-plated, self-locking
9	2	2	2	2	Washer A2.7, DIN 125, St, nickel-plated
10	1	1	2	2	Panhead screw with Torx, M2.5 × 7, St, nickel-plated

Order Information

Width HP	Part no. Rear I/O	Part no. Front assembly
3 U Height		
4	20848-751	20848-585
6	-	20848-587
8	20848-752	20848-589
10	-	20848-590
12	-	20848-591
6 U Height		
4	-	20848-592
6	-	20848-594
8	-	20848-596
10	-	20848-597
12	-	20848-598

Accessories

Microswitch for handles, CompactPCI/VME64x application	PU 10 pieces	20817-606
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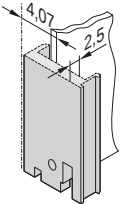
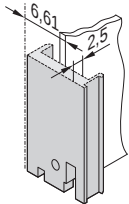
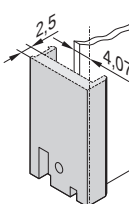
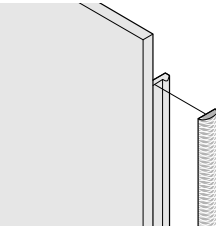
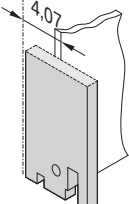
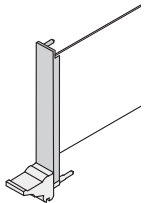
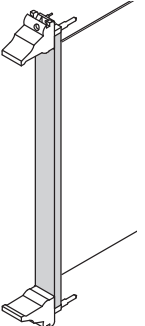
- Dimension drawing of front profile see page 7.25
- Description of microswitch see page 7.29

Plug-in units – for CompactPCI, VME64x

Individual
components

Front panels, U-profiles, for extractor handles, type IEL, IET

Order Information

	Front panel, U profile, shieldable			Textile EMC gasket		Front panel, flat, unshielded, front mounting
	Front mounting  04608060	Front mounting, PCB fixing with 0.1" offset  04608062	Rear I/O mounting  04608061	 BGA45760		 04608063
	Al extrusion, 2.5 mm, front anodised, rear conductive; alignment pin pressed-in (3 U only), stainless steel; manufacturing process causes various surface structures to appear between 4 to 12 HP and 14 to 16 HP			always fixed laterally on the front panel, in the groove of the profile, textile gasket, core: foam, sleeve: textile cladding with CuNi coating, UL 94 V-0, temperature range -40 ... 70 °C		front panel, Al, 2.5 mm, front anodised, rear iridescent green chromated
Width HP	1 piece (SPQ 5) ¹⁾	1 piece (SPQ 5) ¹⁾	1 piece (SPQ 5) ¹⁾	PU 10 pieces	PU 100 pieces	1 piece (SPQ 5) ¹⁾
3 U Height						
 04608067	4	30848-312	30848-426	21101-853	21101-854	30848-327
	5	30848-300	30848-427			30848-328
	6	30848-313	30848-428			30848-329
	7	30848-301	30848-429			30848-330
	8	30848-314	30848-430			30848-331
	9	20848-227	–			–
	10	30848-315	30848-431			30848-333
	11	20848-228	–			–
	12	30848-316	30848-432			30848-335
 04608066	14	20848-230	–	21101-855	21101-856	–
	16	20848-232	–			–
	4	30848-317	30848-317			30848-336
	5	30848-304	30848-304			30848-337
	6	30848-318	30848-318			30848-338
	7	30848-305	30848-305			30848-339
	8	30848-319	30848-319			30848-340
	9	20848-243	20848-243			–
	10	30848-320	30848-320			30848-342
	11	20848-244	20848-244			–
	12	30848-321	30848-321			30848-344
	14	20848-246	20848-246			–
	16	20848-248	20848-248			–
Fixing material see page	7.22	7.22	7.22			7.22
Dimensions see page	7.25	7.25	7.24			7.26

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

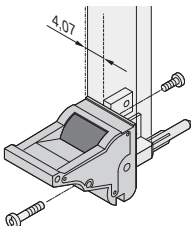
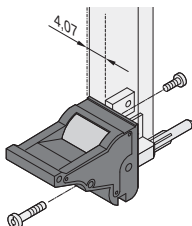
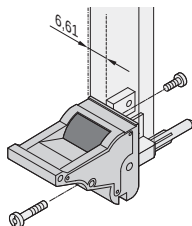
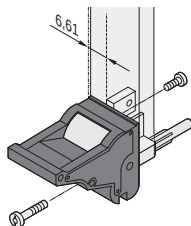
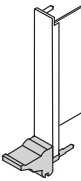
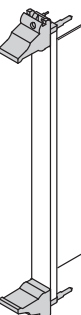
Part no. includes one packing unit (PU); delivery is exclusively made in PU

Plug-in units – for CompactPCI, VME64x

Individual
components

Insertor/extractor handle, type IEL

Order Information

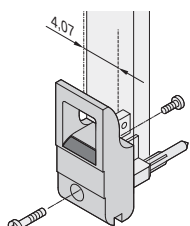
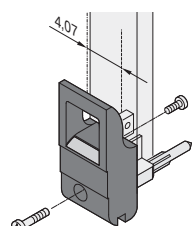
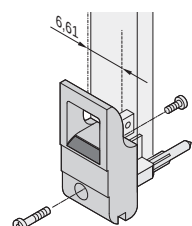
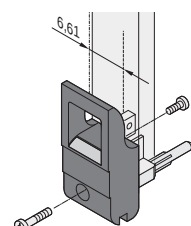
	Insertor/extractor handle, type IEL, board fixing without offset				Insertor/extractor handle, type IEL, board fixing with 0.1" offset				
	lever: light grey, RAL 7035 key: black, RAL 9005		lever: black, RAL 9005 key: light grey, RAL 7035		lever: light grey, RAL 7035 key: black, RAL 9005		lever: black, RAL 9005 key: light grey, RAL 7035		
	 04608050		 04608052		 04608051		 04608074		
	in accordance with IEEE 1101.10 and IEC 60297-3-102, with locking, suitable for insertion and extraction forces up to 700 N (per pair), suitable for fitting of microswitches; block die-cast zinc, nickel-plated, with integrated alignment pin for perforated strip, codable to IEEE 1101.10 and IEC 60297-3-103, lever/key UL 94 V-0, slotted Pozidrive collar screw, M2.5 x 12.3, St, nickel-plated, panhead screw with Torx, M2.5 x 7, St, nickel-plated				in accordance with IEEE 1101.10 and IEC 60297-3-102, with locking, suitable for insertion and extraction forces up to 700 N (per pair), suitable for fitting of microswitches; 0.1" offset is used for PSUs with SMD Plus, block die-cast zinc, nickel plated; with integrated alignment pin for perforated strip, codable to IEEE 1101.10 and IEC 60297-3-103, lever/key UL 94 V-0, slotted Pozidrive collar screw, M2.5 x 12.3, St, nickel-plated, panhead screw with Torx, M2.5 x 7, St, nickel-plated				
Assembly	PU 10 pieces	PU 100 pieces	PU 10 pieces	PU 100 pieces	PU 10 pieces	PU 100 pieces	PU 10 pieces	PU 100 pieces	
 04608071	3 U Height bottom								
	Front side	20817-620	20817-621	20817-612	20817-613	20817-690	20817-691	20817-682	20817-683
	Rear I/O	20817-622	20817-623	20817-614	20817-615	—	—	—	—
 04608070	6 U Height top								
	Front side	20817-622	20817-623	20817-614	20817-615	20817-692	20817-693	20817-684	20817-685
	Rear I/O	20817-620	20817-621	20817-612	20817-613	—	—	—	—
	bottom								
	Front side	20817-620	20817-621	20817-612	20817-613	20817-690	20817-691	20817-682	20817-683
	Rear I/O	20817-622	20817-623	20817-614	20817-615	—	—	—	—
Dimensions see page	7.27				7.27				

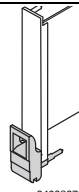
Plug-in units – for CompactPCI, VME64x

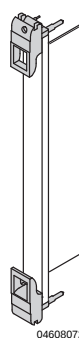
Individual
components

Insertor/extractor handle, type IET

Order Information

	Insertor/extractor handle, type IET, board fixing without offset				Insertor/extractor handle, type IET, board fixing with 0.1" offset			
	lever: light grey, RAL 7035 key: black, RAL 9005		lever: black, RAL 9005 key: light grey, RAL 7035		lever: light grey, RAL 7035 key: black, RAL 9005		lever: black, RAL 9005 key: light grey, RAL 7035	
	 04608054		 04608055		 04608055		 04608074	
	in accordance with IEEE 1101.10 and IEC 60297-3-102, with locking, suitable for insertion and extraction forces up to 700 N (per pair), suitable for fitting of microswitches; block die-cast zinc, nickel-plated, with integrated alignment pin for perforated strip, codable to IEEE 1101.10 and IEC 60297-3-103, lever/key UL 94 V-0, Slotted Pozidrive collar screw, M2.5 x 12.3, St, nickel-plated, panhead screw with Torx, M2.5 x 7, St, nickel-plated				in accordance with IEEE 1101.10 and IEC 60297-3-102, with locking, suitable for insertion and extraction forces up to 700 N (per pair), suitable for fitting of microswitches; 0.1" offset is used for PSUs with SMD Plus: block die-cast zinc, nickel plated; with integrated alignment pin for perforated strip, codable to IEEE 1101.10 and IEC 60297-3-103, lever/key UL 94 V-0, slotted Pozidrive collar screw, M2.5 x 12.3, St, nickel-plated, panhead screw with Torx, M2.5 x 7, St, nickel-plated			
Assembly	PU 10 pieces	PU 100 pieces	PU 10 pieces	PU 100 pieces	PU 10 pieces	PU 100 pieces	PU 10 pieces	PU 100 pieces

 04608073	3 U Height bottom								
	Front side	20817-660	20817-661	20817-652	20817-653	20817-714	20817-715	20817-706	20817-707
	Rear I/O	20817-662	20817-663	20817-654	20817-655	—	—	—	—

 04608072	6 U Height top								
	Front side	20817-662	20817-663	20817-654	20817-655	20817-716	20817-717	20817-708	20817-709
	Rear I/O	20817-660	20817-661	20817-652	20817-653	—	—	—	—
	bottom								
	Front side	20817-660	20817-661	20817-652	20817-653	20817-714	20817-715	20817-706	20817-707
	Rear I/O	20817-662	20817-663	20817-654	20817-655	—	—	—	—

Fixing material see page	7.22				7.22			
Dimensions see page	7.28				7.28			

Plug-in units – for CompactPCI, VME64x

Individual
components

inserter/extractor handles, type IEL/IET, fixing material

Order Information

Diagram showing the assembly of a 3 U unit. Components are labeled with callouts: 3 / 3a, 4, 1, 7 / 7a, 6, 5 / 5a, 3 / 3a / 8, 4, 9, 6.

04609050

Diagram showing the assembly of a 6 U unit. Components are labeled with callouts: 3, 8, 4, 6, 9, 3 / 3a / 8, 4, 9, 6. The diagram is labeled "top" and "bottom".

04609051

Fixing material	Item	3 U	Required quantity				Qty/PU	Part no.		
			3 U		6 U					
			< 8 HP	≥ 8 HP	< 8 HP	≥ 8 HP				
Printed board bracket Zn die-cast	1	 06707050	1	1	–	–	1 piece (SPG 10) ¹⁾	60807-181		
Pozidrive panhead screw M2.5 × 6, St, nickel-plated , not for 0.1" offset	3	 AZA45177	2	2	2	2	100	21101-219		
Slotted panhead screw with Torx 8 M2.5 × 6, St, zinc-plated, self-securing thread not for 0.1" offset	3a	 aza45940	2	2	2	2	100	24560-159		
Washer 2.7, DIN 125, St, nickel-plated	4	 AZA46586	2	2	2	2	100	21100-721		
Raised Pozidrive countersunk panhead screw M2.5 × 8, St, nickel-plated	5	 06702056	1	1	–	–	100	21100-429		
Raised countersunk panhead screw with Torx 8 M2.5 × 8, St, nickel-plated	5a	 06708050	1	1	–	–	100	24560-164		
Pozidrive/slotted collar screw M2.5 × 12.3, St, nickel-plated	6	 AZA46586	1	3	–	2	100	21101-101		
Plastic sleeve, for form hole 5.9 x 3.3 PA, UL 90 V-2, grey	7	 aza45933	1	3	–	2	100	21100-464		
Metal sleeve, for form hole 5.9 x 3.3, press-in Stainless steal	7a	 aza45934	1	3	–	2	100	21100-662		
Pozidrive panhead screw for IEL/IET handle with 0.1" offset M2.5 × 10, nickel-plated steel	8	 AZA45177	2	2	2	2	100	21101-220		
Torx panhead screw M2.5 × 7, St, nickel-plated, Torx 8,	9	 aza45940	1	1	2	2	100	24560-147		

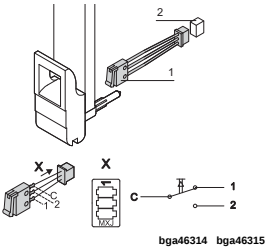
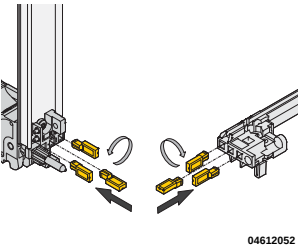
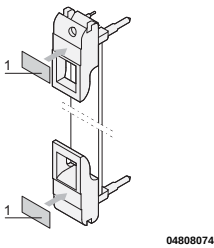
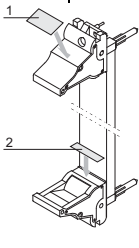
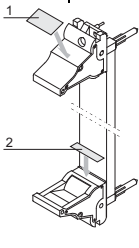
1) SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple

Plug-in units – for CompactPCI, VME64x

Individual
components

Insertion/extraction handles, type IEL/IET, accessories

Order Information

Microswitch	Keying/coding	Label strips	Label strips	
with cable and plug  bga46314 bga46315 Molex connector housing 51021-0300, Molex crimp contact 50058-8000 and fixing clip (item 3), plastic, PC, UL 94 V-0, max. switched current 50 mA, operating range -25 °C to +70 °C, mech. life ≥ 20,000 switching cycles, electr. life ≥ 20,000 switching cycles; suitable mating connectors (item 2) e.g. Molex 53261-0319, 53048-0310, 53047-0310, 53398-0319, 51047-0300 not included in scope of delivery PU 10 pieces	in accordance with IEC 60297-3-103  04612052 The keying/coding pegs prevent plug-in units to be mounted in wrong slots. They are inserted in the chambers of the codable card guides as well as in the insertion/extraction handles IEL or IET (4 possible positions), resulting in 64 codings per card guide; when coding the upper and lower card guide, 4096 codings will result; guide rails for coding see page 6.38 PU 100 pieces	19 x 9.5 mm  04808074 Polyester, self-adhesive, white, 1 sheet 210 pieces (Item 1) PU 210 pieces	19 x 9.5 mm  04808074 Polyester, self-adhesive, white, 1 sheet 210 pieces (item 1) PU 210 pieces	19 x 4.8 mm  04808074 Polyester, self-adhesive, white, 1 sheet 320 pieces (item 2) PU 320 pieces
3 U Height				
bottom				
20817-606	20817-501	60817-340	60817-340	60817-341
6 U Height				
top				
20817-606	20817-501	60817-340	60817-340	60817-341
bottom				
20817-606	20817-501	60817-340	60817-340	60817-341

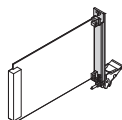
Plug-in units – for CompactPCI, VME64x

Dimensions

Front panels, U-profiles, inserter/extractor handles, type IEL/IET, rear I/O, shieldable

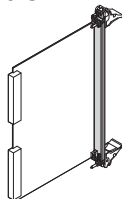
PCB fixing without offset

3 U

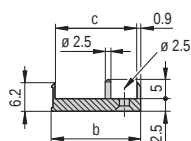
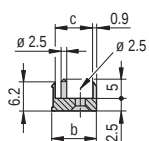
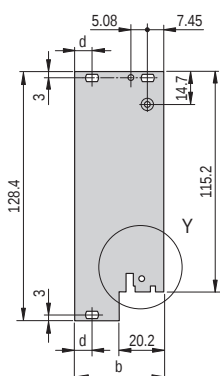
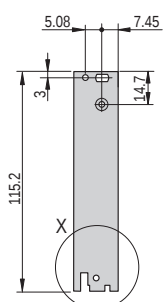
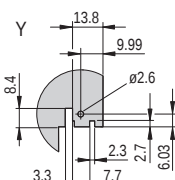
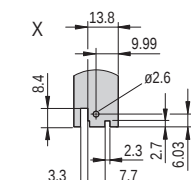


04608068

6 U



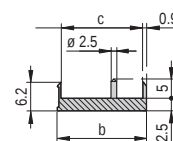
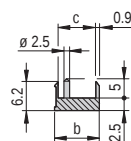
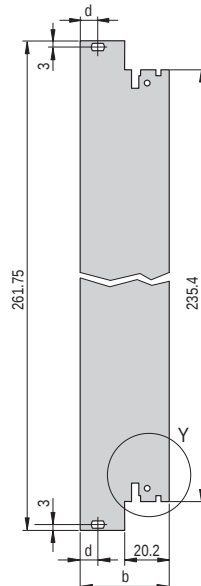
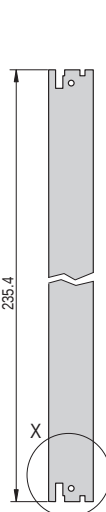
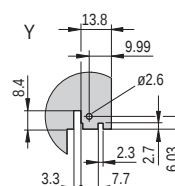
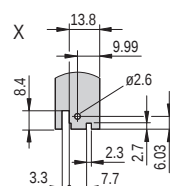
04608076



4 HP

≥5 HP

04608069



4 HP

≥5 HP

04608075

Dimensions table

Width	b	c	d
HP	mm	mm	mm
4	19.98	17.45	—
5	25.06	22.53	—
6	30.14	27.61	—
7	35.22	32.69	—
8	40.30	37.77	7.45
9	45.38	42.85	7.45
10	50.46	47.93	7.45
11	55.54	53.01	7.45
12	60.62	58.09	7.45
14	70.78	68.25	7.45
16	80.94	78.41	7.45

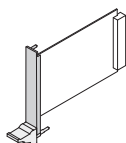
Plug-in units – for CompactPCI, VME64x

Dimensions

Front panels, U-profiles, inserter/extractor handles, type IEL, IET, shieldable

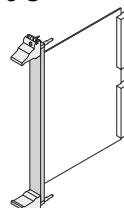
PCB fixing without offset / with 0.1" offset

3 U

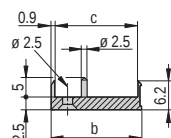
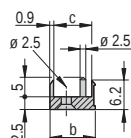
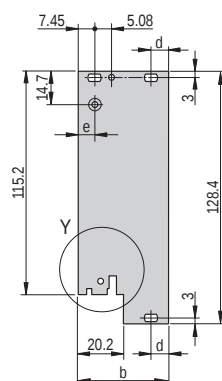
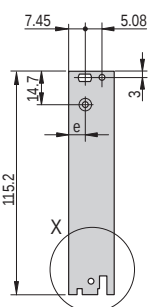
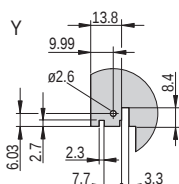
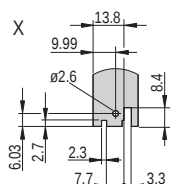


04608067

6 U



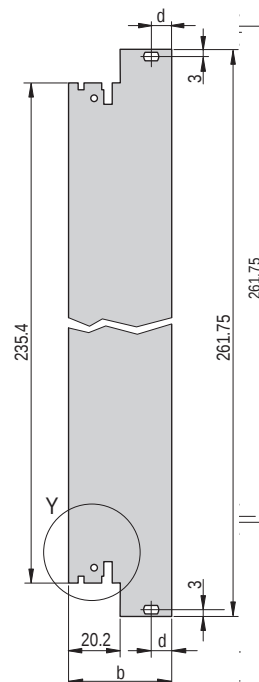
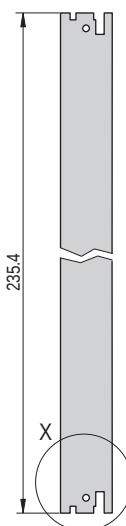
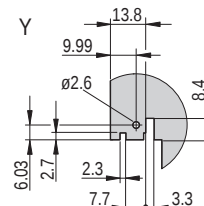
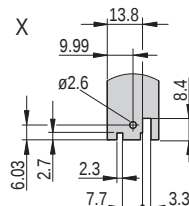
04608066



4 HP

≥5 HP

04608064



4 HP

≥5 HP

04608065

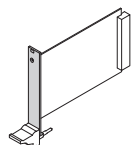
Dimensions table

Width HP	b mm	c mm	d mm	without offset	with 0.1" offset
				e mm	e mm
4	19.98	17.45	—	7.45	9.99
5	25.06	22.53	—	7.45	9.99
6	30.14	27.61	—	7.45	9.99
7	35.22	32.69	—	7.45	9.99
8	40.30	37.77	7.45	7.45	9.99
9	45.38	42.85	7.45	7.45	9.99
10	50.46	47.93	7.45	7.45	9.99
11	55.54	53.01	7.45	7.45	9.99
12	60.62	58.09	7.45	7.45	9.99
14	70.78	68.25	7.45	7.45	9.99
16	80.94	78.41	7.45	7.45	9.99

Dimensions Front panels, inserter/extractor handles, type IEL/IET, unshielded

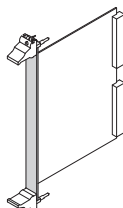
PCB fixing without offset

3 U

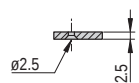
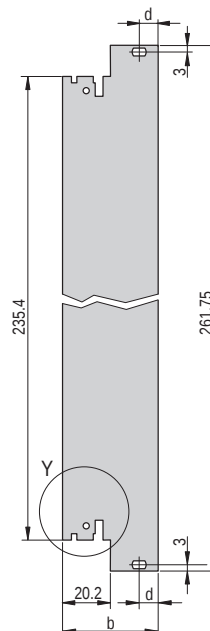
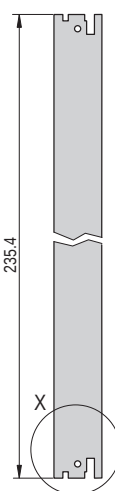
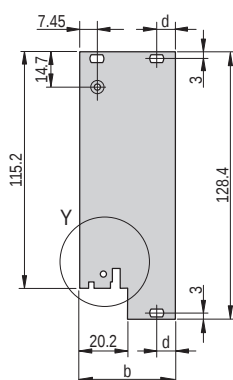
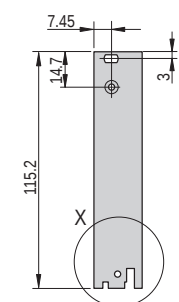
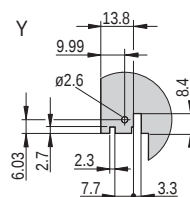
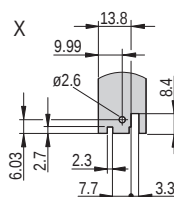
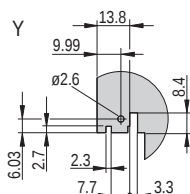
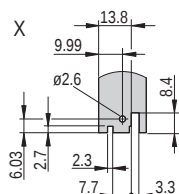


04608080

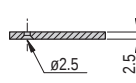
6 U



04608079



4 HP



≥5 HP

04608077



4 HP



≥5 HP

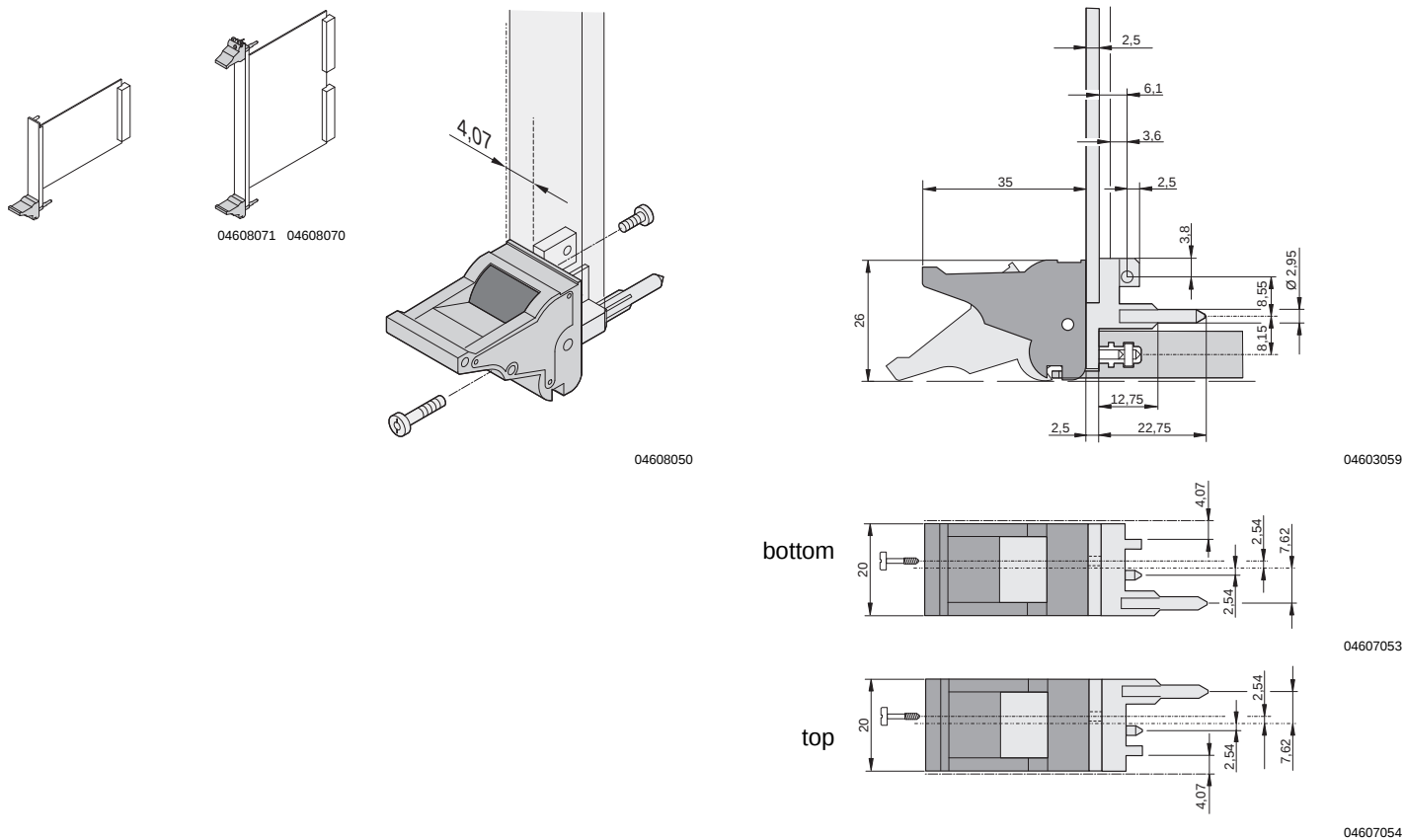
04608078

Dimensions table

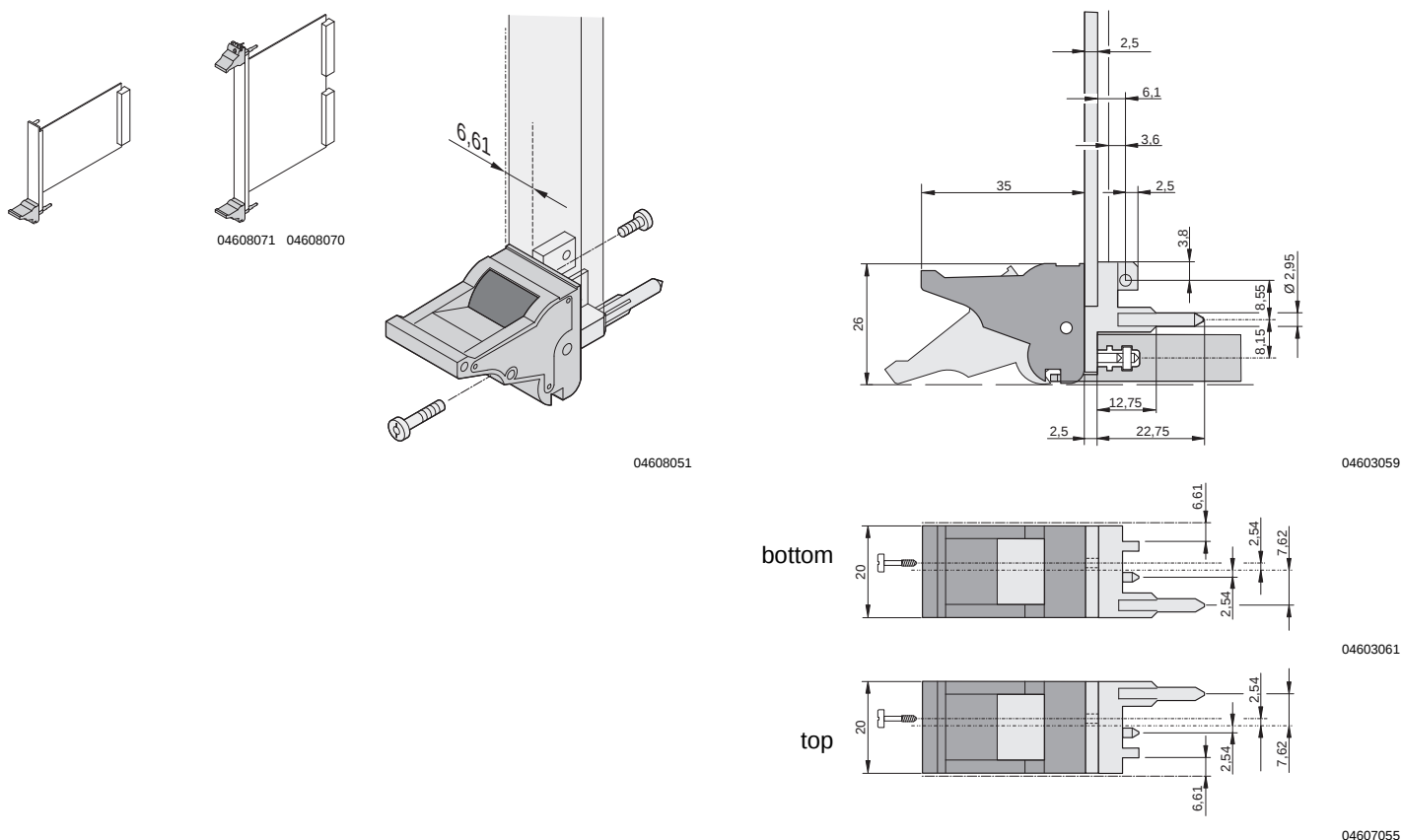
Width HP	b mm	d mm
4	19.98	—
5	25.06	—
6	30.14	—
7	35.22	—
8	40.30	7.45
9	45.38	7.45
10	50.46	7.45
11	55.54	7.45
12	60.62	7.45
14	70.78	7.45
16	80.94	7.45

Plug-in units – for CompactPCI, VME64x

Dimensions Inserter/extractor handle, type IEL

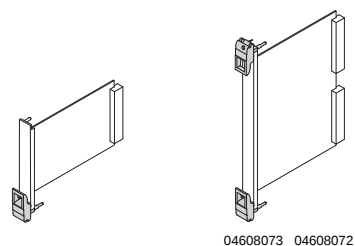


Dimensions Inserter/extractor handle, type IEL, 0.1" offset

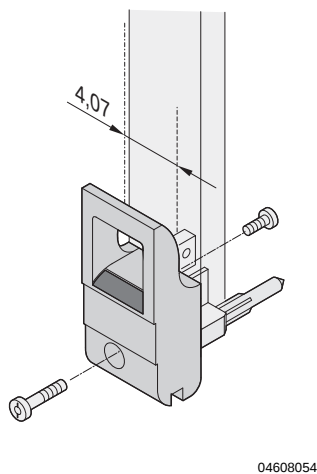


Plug-in units – for CompactPCI, VME64x

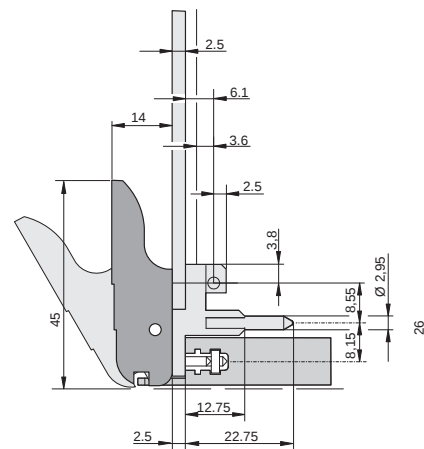
Dimensions Inserter/extractor handle, type IET



04608073 04608072

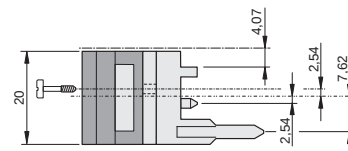


04608054



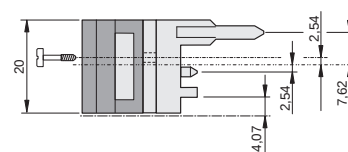
04603060

bottom



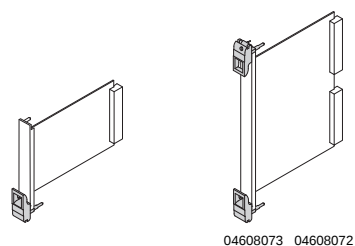
04607056

top

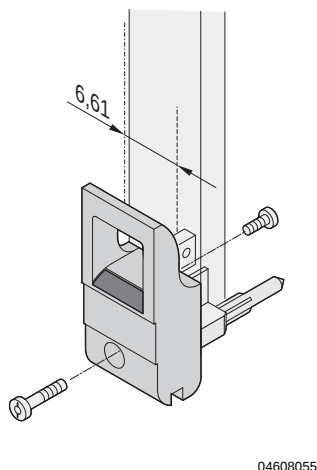


04607057

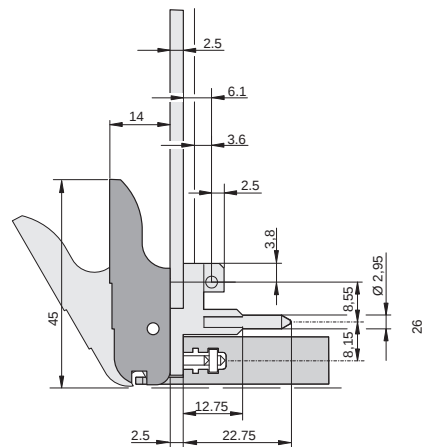
Dimensions Inserter/extractor handle, type IET, 0.1" offset



04608073 04608072

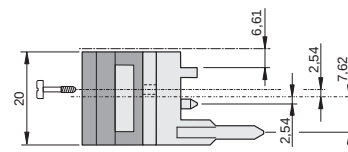


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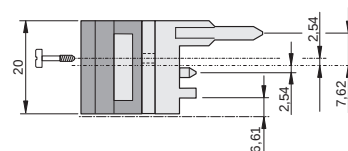
04603060

bottom



04603062

top

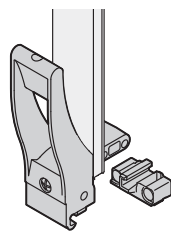
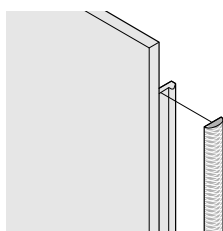
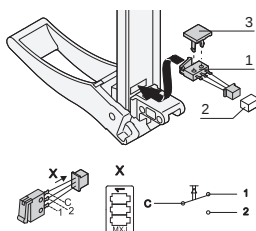


04607058

Plug-in units – for CompactPCI, VME64x, VXS, VPX

Individual
components

Insertor/extractor handle, type XL, front panels, microswitch

 04805008	Insertor/extractor handle, type XL  04608081	U front profile, shieldable, for insertor/extractor handle, type XL		EMC gasket (textile)		Microswitch item 1
		without cut-out for microswitch	with cut-out for microswitch	 BGA45760	 04608084 bga46315	
	kit, incl. die-cast bearing and assembly kit; insertion and extraction force up to 1500 Nm per pair; handle in PA, fibreglass reinforced, UL 94V 0; robust board fixing with double bolt fixing, microswitches can be fitted	Al, front anodised, sides and rear conductive, for sleeve and collar screw see page 7.35	Al, front anodised, sides and rear conductive for sleeve and collar screw see page 7.35			always fixed laterally on the front panel, in the groove of the profile, textile gasket, core: foam, sleeve: textile cladding with CuNi coating, UL 94 V-0
Width HP	PU 10 pieces	1 piece (SPQ 5) ¹⁾	1 piece (SPQ 5) ¹⁾	PU 10 pieces	PU 100 pieces	PU 10 pieces
6 U Height						
4	20817-874	30849-153	30849-154	21101-855	21101-856	20817-877
8		30849-155	30849-156			
12		30849-157	30849-158			
Dimensions see page	7.30	7.30	7.30			

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

Note

- Please order front panels separately

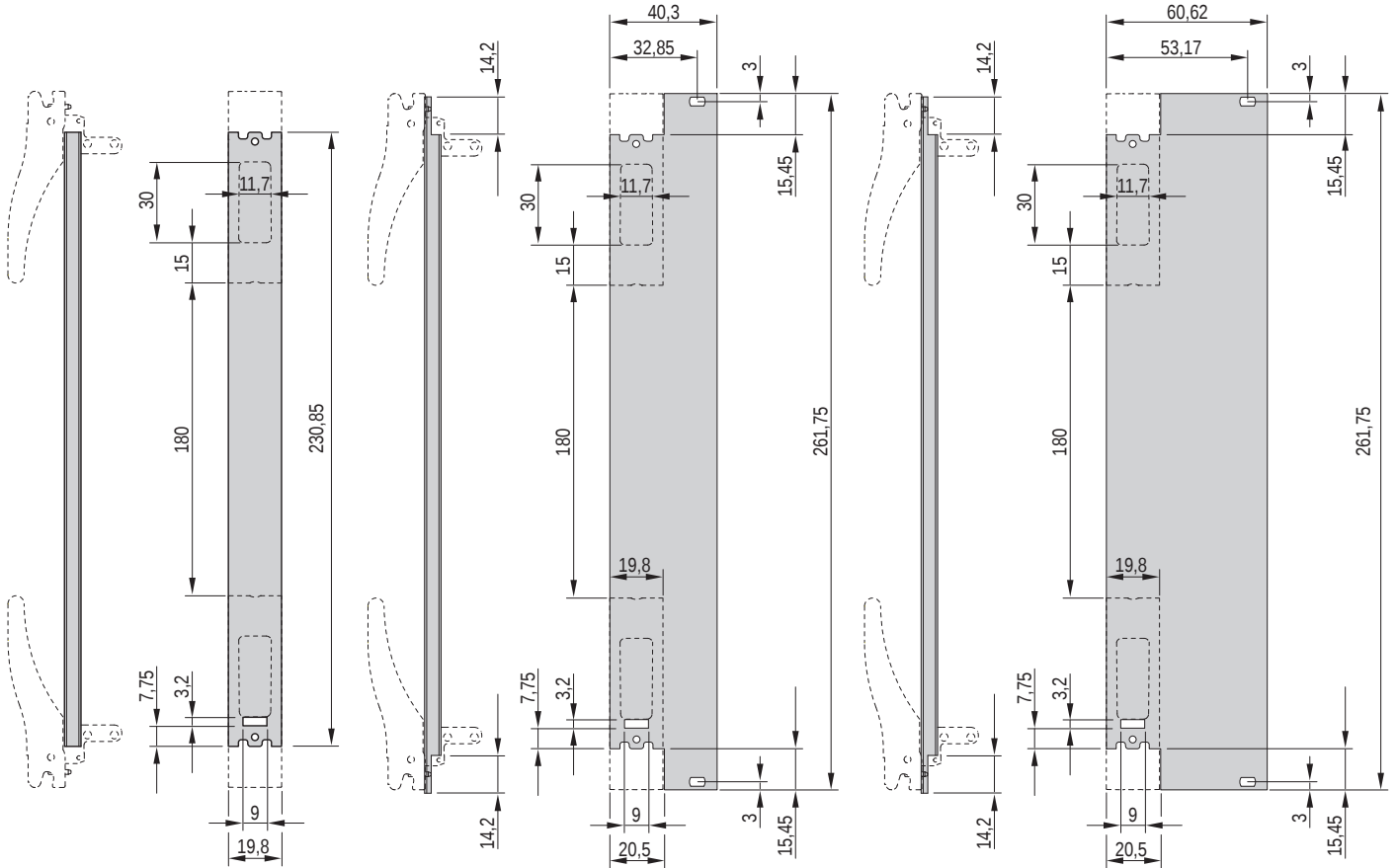
Plug-in units – for CompactPCI, VME64x, VXS, VPX

Dimensions U front profile for extractor handle type XL, shieldable

6 U/4 HP

6 U/8 HP

6 U/12 HP

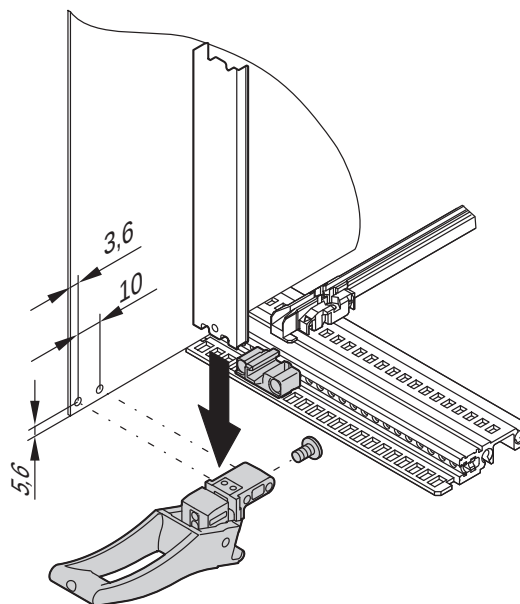


04605053

04605054

04605055

Dimensions Inserter/extractor handle, type XL



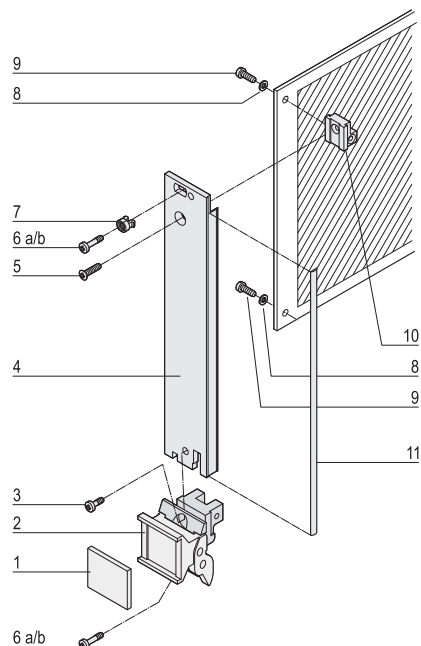
04608113

Plug-in units – for VME

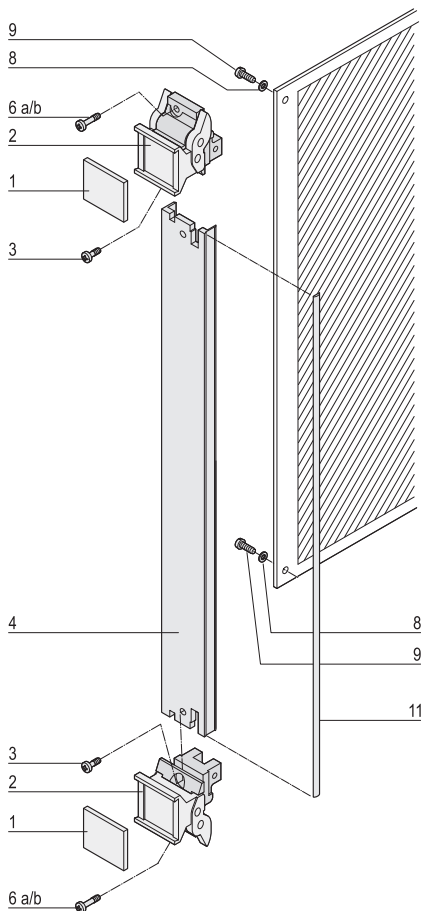
Kits

Plug-in units with trapeziform extractor handle, type 2

3 U



6 U



■ Shielded

Delivery comprises (kit)

Item	Qty		Description
	3 U <8HP ≥8HP	6 U <8HP ≥8HP	
1	1 1	2 2	Identification plate, Al, 1.5 mm, anodised, cut edges untreated
2	1 1	2 2	Extractor handle, trapeziform, type 2, lever: PPE, light grey, RAL 7035, block die-cast zinc, nickel-plated, with integrated alignment pin for perforated strip
3	1 1	2 2	Pozidrive flathead screw, St, M2.5 x 6, nickel-plated
4	1 1	1 1	Front panel, U profile, Al, front anodised, rear conductive
5	1 1	— —	Raised Pozidrive countersunk screw M2.5 x 8, St, nickel-plated
6a	2 4	2 4	Pozidrive collar screw, M2.5 x 12.3, St, nickel-plated,
6b	2 4	2 4	collar screw, Pozidrive/slot, M2.5 x 11, St, nickel-plated,
7	1 3	— 2	Sleeve, PA, grey
8	2 2	2 2	Washer A 2.7, DIN 125
9	2 2	2 2	Panhead screw with Torx/slot, M2.5 x 6, St, zinc-plated, self-locking
10	1 1	— —	Board support, die-cast zinc
11	1 1	1 1	EMC sealing (textile), core: foam, sleeve: textile cladding, Cu-Ni coated

Order Information

Height U	Width HP	Part no.
3	4	20848-686
3	6	20848-687
3	8	20848-688
3	10	20848-689
3	12	20848-690
6	4	20848-691
6	6	20848-692
6	8	20848-693
6	10	20848-694
6	12	20848-695

■ Dimension drawings of front profile see page 7.36

■ Description of microswitch see page 7.29



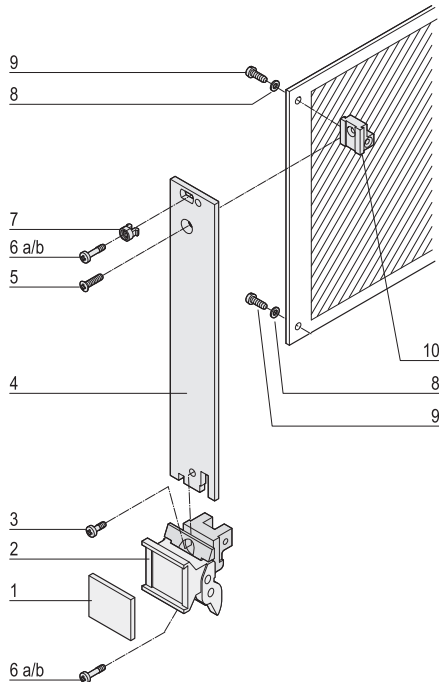
For further information www.schroff.biz/oneclick
oneClick search code = Part no.

Plug-in units – for VME

Kits

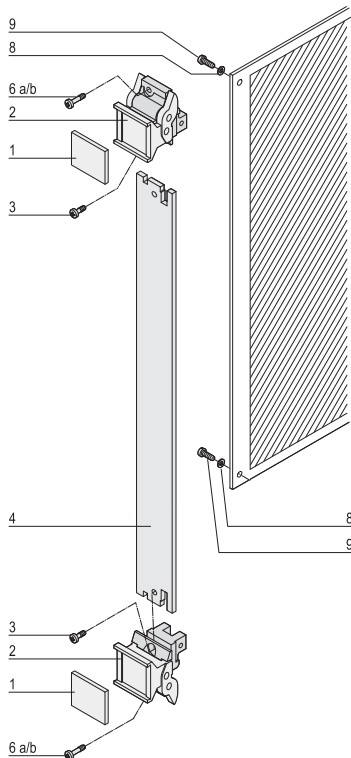
Plug-in units with trapeziform extractor handle, type 2

3 U



04604052

6 U



04604053

■ Unshielded

Delivery comprises (kit)

Item	3 U		6 U		Description
	<8HP	≥8HP	<8HP	8 HP	
1	1	1	2	2	Identification plate, Al, 1.5 mm, anodised, cut edges plain
2	1	1	2	2	Extractor handle, trapeziform, type 2, lever: PPE, light grey, RAL 7035, block: die-cast zinc, nickel-plated
3	1	1	2	2	Flathead screw M2.5 x 6, nickel-plated
4	1	1	1	1	Front panel, Al, 2.5 mm, front: anodised, rear: iridescent green chromated
5	1	1	—	—	Raised Pozidrive countersunk screw, M2.5 x 8, St, nickel-plated
6a	2	4	2	4	Slotting Pozidrive collar screw, M2.5 x 12.3, St, nickel-plated,
6b	2	4	2	4	slotting Pozidrive collar screw, M2.5 x 11, St, nickel-plated
7	1	3	—	2	Sleeve, PA, grey
8	2	2	2	2	Washer A 2.7, DIN 125
9	2	2	2	2	Slotted Torx panhead screw, M2.5 x 6, St, zinc-plated, self-locking
10	1	1	—	—	Board support, die-cast zinc

Order Information

Height U	Width HP	Part no.
3	4	20817-860
3	5	20817-861
3	6	20817-862
3	7	20817-863
3	8	20817-864
3	10	20817-865
3	12	20817-866
6	4	20817-867
6	5	20817-868
6	6	20817-869
6	7	20817-870
6	8	20817-871
6	10	20817-872
6	12	20817-873

■ Dimension drawing of front profile see page 7.36

■ Description of microswitch see page 7.29



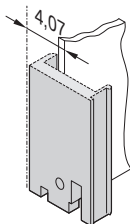
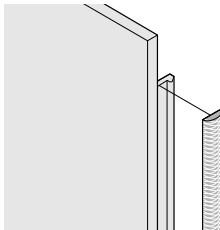
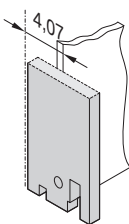
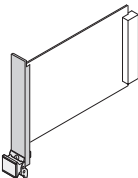
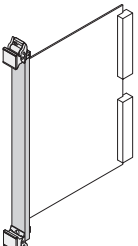
For further information www.schroff.biz/oneclick
oneClick search code = Part no.

Plug-in units – for VME

Individual
components

U front profiles/front panels for trapeziform extractor handle, type 2

Order Information

	Front panel, U profile, shieldable  04608060 Al extrusion, 2.5 mm, front anodised, rear conductive; alignment pin pressed-in (3 U only), stainless steel; manufacturing process causes various surface structures to appear between 4 to 12 HP and 14 to 16 HP Width HP 1 piece (SPQ 5)¹⁾	Textile EMC gasket  BGA45760 always fixed laterally on the front panel, in the groove of the profile, textile gasket, core: foam, sleeve: textile cladding with CuNi coating, UL 94 V-0, temperature range -40 ... 70 °C PU 10 pieces PU 100 pieces	Front panel, flat, unshielded  04608063 Front panel, Al, 2.5 mm, front anodised, rear iridescent green chromated 1 piece (SPQ 5)¹⁾																																														
 04608109 3 U Height <table><tr><td>4</td><td>30848-312</td><td rowspan="7">21101-853</td><td rowspan="7">21101-854</td><td>30848-327</td></tr><tr><td>5</td><td>30848-300</td><td>30848-328</td></tr><tr><td>6</td><td>30848-313</td><td>30848-329</td></tr><tr><td>7</td><td>30848-301</td><td>30848-330</td></tr><tr><td>8</td><td>30848-314</td><td>30848-331</td></tr><tr><td>10</td><td>30848-315</td><td>30848-333</td></tr><tr><td>12</td><td>30848-316</td><td>30848-335</td></tr></table>	4	30848-312	21101-853	21101-854	30848-327	5	30848-300	30848-328	6	30848-313	30848-329	7	30848-301	30848-330	8	30848-314	30848-331	10	30848-315	30848-333	12	30848-316	30848-335	 04608107 6 U Height <table><tr><td>4</td><td>30848-317</td><td rowspan="7">21101-855</td><td rowspan="7">21101-856</td><td>30848-336</td></tr><tr><td>5</td><td>30848-304</td><td>30848-337</td></tr><tr><td>6</td><td>30848-318</td><td>30848-338</td></tr><tr><td>7</td><td>30848-305</td><td>30848-339</td></tr><tr><td>8</td><td>30848-319</td><td>30848-340</td></tr><tr><td>10</td><td>30848-320</td><td>30848-342</td></tr><tr><td>12</td><td>30848-321</td><td>30848-344</td></tr></table>	4	30848-317	21101-855	21101-856	30848-336	5	30848-304	30848-337	6	30848-318	30848-338	7	30848-305	30848-339	8	30848-319	30848-340	10	30848-320	30848-342	12	30848-321	30848-344	Dimensions see page 7.36	7.36
4	30848-312	21101-853			21101-854	30848-327																																											
5	30848-300					30848-328																																											
6	30848-313					30848-329																																											
7	30848-301					30848-330																																											
8	30848-314					30848-331																																											
10	30848-315					30848-333																																											
12	30848-316		30848-335																																														
4	30848-317	21101-855	21101-856	30848-336																																													
5	30848-304			30848-337																																													
6	30848-318			30848-338																																													
7	30848-305			30848-339																																													
8	30848-319			30848-340																																													
10	30848-320			30848-342																																													
12	30848-321			30848-344																																													

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

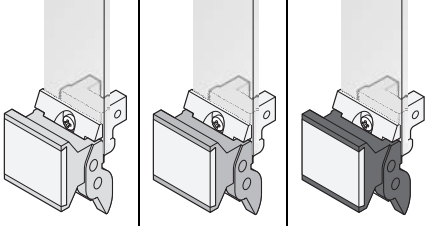
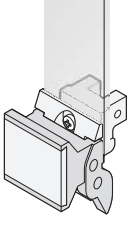
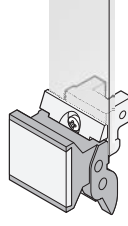
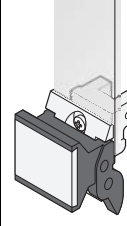
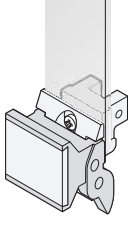
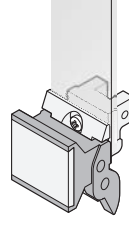
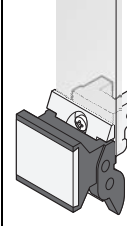
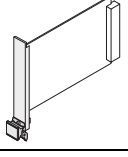
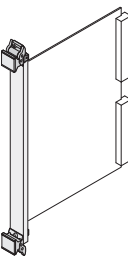
Part no. includes one packing unit (PU); delivery is exclusively made in PU

Plug-in units – for VME

Individual
components

Extractor handle, trapeziform, type 2

Order Information

	Trapeziform extractor handle, type 2 without alignment pin			Trapeziform extractor handle, type 2 with alignment pin		
	lever, light grey, RAL 7035	lever, dark grey, RAL 7032	lever, black, RAL 9005	lever, light grey, RAL 7035	lever, dark grey, RAL 7032	lever, black, RAL 9005
						
	04608085	BGA45760	04608087	BGA45760	04608086	04608087
Width HP	Extractor handle, PPE; block, die-cast zinc, zinc-plated; identification plate, Al, 1.5 mm, anodised, cut edges plain; Pozidrive flat-head screw, M2.5 x 6, nickel-plated; slotted Pozidrive collar screw, M2.5 x 12.3, St, nickel-plated; slotted Pozidrive collar screw, M2.5 x 11, St, nickel-plated,			Extractor handle, PPE; block, die-cast zinc, zinc-plated; Identification plate, Al, 1.5 mm, anodised, cut edges plain; Pozidrive flat-head screw, M2.5 x 6, nickel-plated; slotted Pozidrive collar screw, M2.5 x 12.3, St, nickel-plated; slotted Pozidrive collar screw, M2.5 x 11, St, nickel-plated,		
	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾
	3 U Height bottom					
	20817-858	20817-854	20817-856	20817-833	20817-829	20817-831
	6 U Height top					
	20817-858	20817-854	20817-856	20817-833	20817-829	20817-831
	bottom					
	20817-858	20817-854	20817-856	20817-833	20817-829	20817-831
Dimensions see page	7.37			7.37		

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

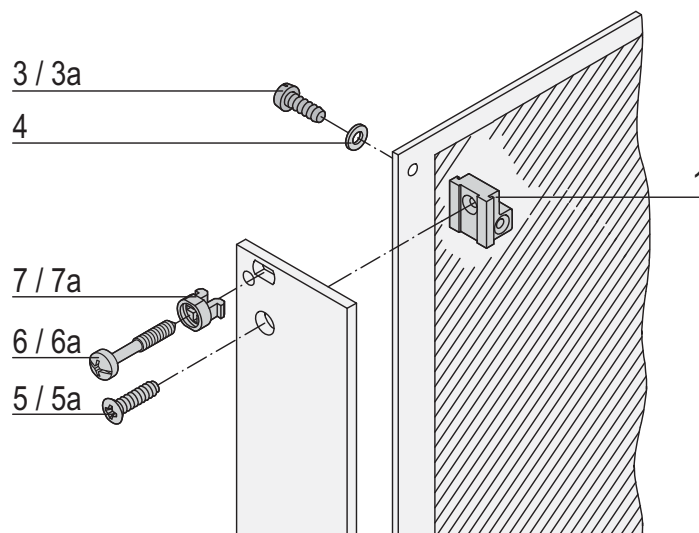
Part no. includes one packing unit (PU); delivery is exclusively made in PU

Plug-in units – for VME

Individual
components

Fixing material for trapeziform extractor handle, type 2

Order Information



bga46045

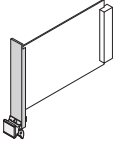
Fixing material	Item		Required quantity				Qty/PU	Part no.
			3 U		6 U			
			< 8 HP	≥ 8 HP	< 8 HP	≥ 8 HP		
Printed board bracket Zn die-cast	1	 06707050	1	1	–	–	1 Stück (LLG 10) ¹⁾	60807-181
Pozidrive panhead screw M2.5 × 6, St, nickel-plated	3	 AZA45177	2	2	2	2	100	21101-219
Slotted panhead screw with Torx 8 M2.5 × 6, St, zinc-plated Self-securing thread	3a	 aza45940	2	2	2	2	100	24560-159
Washer 2.7, St, nickel-plated	4	 AZA46586	2	2	2	2	100	21100-721
Raised Pozidrive countersunk panhead screw M2.5 × 8, St, nickel-plated	5	 06702056	1	1	–	–	100	21100-429
Raised countersunk panhead screw with Torx 8 M2.5 × 8, St, nickel-plated	5a	 06708050	1	1	–	–	100	24560-164
Slotted Pozidrive collar screw M2.5 × 11, St, nickel-plated	6	 AZA46586	1	3	–	2	100	21100-748
Slotted Pozidrive collar screw M2.5 × 12.3, St, nickel-plated	6a	 AZA46586	1	3	–	2	100	21101-101
Plastic sleeve, for form hole 5.9 x 3.3 PA, UL 90 V-2, grey	7	 aza45933	1	3	–	2	100	21100-464
Metal sleeve, for form hole 5.9 x 3.3, press-in Stainless steel	7a	 aza45934	1	3	–	2	100	21100-662

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

Plug-in units – for VME

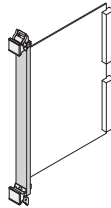
Dimensions Front panels, U profiles, for trapeziform extractor handles, type 2

3 U

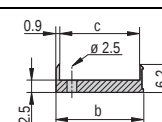
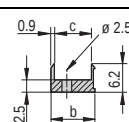
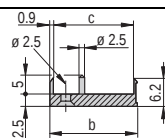
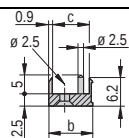
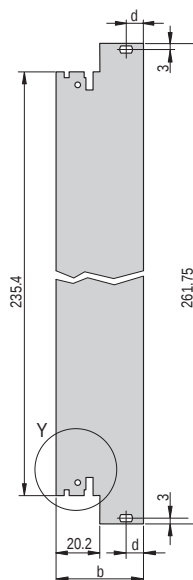
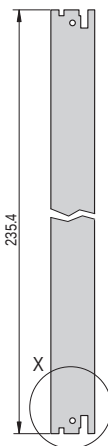
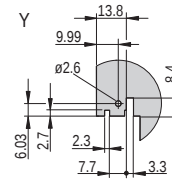
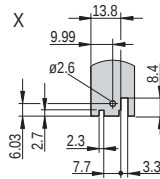
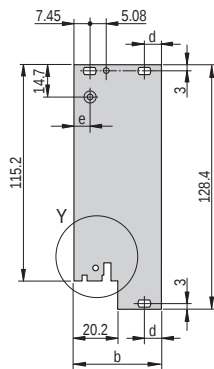
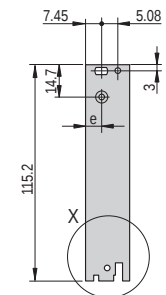
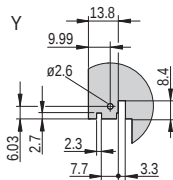
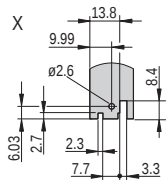


04608109

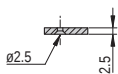
6 U



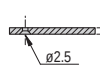
04608107



shieldable



4 HP



≥5 HP

04608064 04608077



4 HP



≥5 HP

unshielded

04608065 04608078

Dimensions table

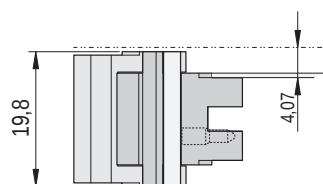
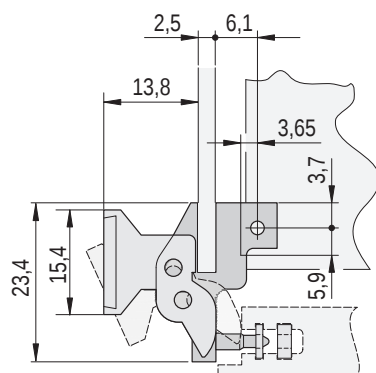
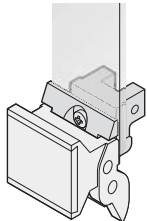
Width HP	b mm	c mm	d mm
4	19.98	17.45	—
5	25.06	22.53	—
6	30.14	27.61	—
7	35.22	32.69	—
8	40.30	37.77	7.45
9	45.38	42.85	7.45
10	50.46	47.93	7.45
11	55.54	53.01	7.45
12	60.62	58.09	7.45
14	70.78	68.25	7.45
16	80.94	78.41	7.45

Plug-in units – for VME

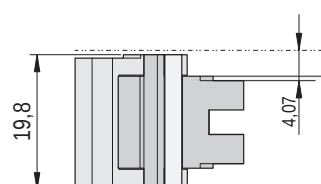
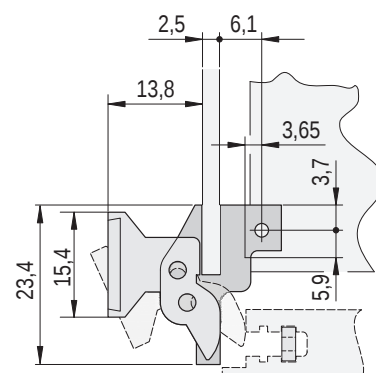
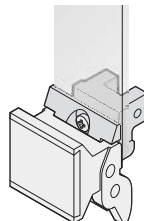
Dimension
drawings

Extractor handle, trapeziform, type 2

with alignment pin



without alignment pin

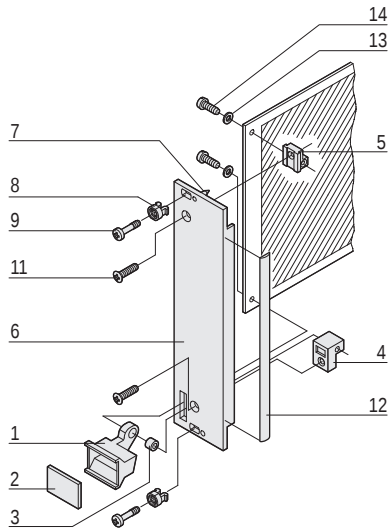


Plug-in units – for VME

Kits

Plug-in units with trapeziform extractor handle, type 1 – front panel, U-profile, shielded

3 U



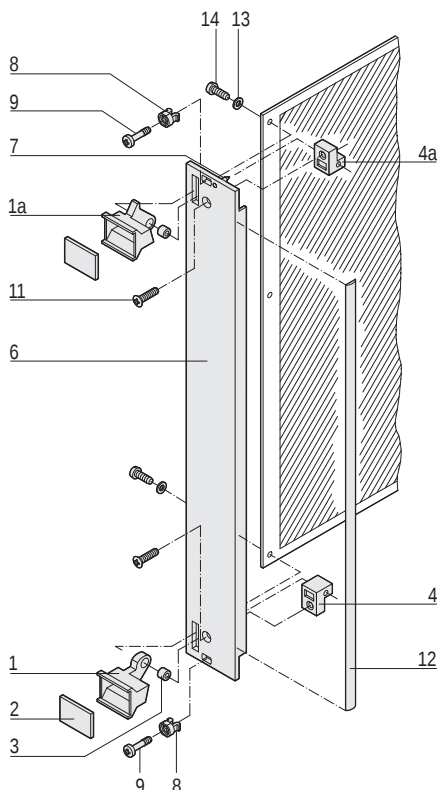
- At 6 U the board position can be offset by 1 HP to the right by swapping the top and bottom board supports; thus space is created for SMD components on the left (solder) side; for board thickness 1.6 mm only

Delivery comprises (kit)

Item	Qty	3 U	6 U	Description
1	1	1		Extractor handle, trapeziform type, PPE, grey, bottom
1a	-	1		Extractor handle, trapeziform type, PPE, grey, top
2	1	2		Identification plate, Al, 1.5 mm, anodised, cut edges plain
3	1	2		Pivot bush, Ms
4	1	1		Board support, die-cast zinc, bottom
4a	-	1		Board support, die-cast zinc, top
5	1	-		Board support, die-cast zinc
6	1	1		Front panel, U profile, for trapeziform extractor handle, front anodised, rear conductive
7	2	2		Alignment pin, pressed-in, stainless steel
8	2	2		Sleeve, PA, grey, up to 7 HP front panel width
8	4	4		Sleeve, PA, grey, from 8 HP front panel width
9	2	2		Collar screw, Pozidrive/slot, St, nickel-plated, M2.5 × 12.3, front panel width up to 7 HP
9	4	4		Collar screw, Pozidrive/slot, St, nickel-plated, M2.5 × 12.3, front panel width from 8 HP
11	1	2		Raised countersunk panhead screw, M2.5 × 8
12	1	1		EMC gasket (textile)
13	2	2		Washer, A2.7, DIN 125
14	2	2		Pozidrive flathead screw, St, nickel-plated, M2.5 × 10

04602058

6 U



04602059

Order Information

Width	3 U	6 U
HP	Part no.	Part no.
4	20848-485	20848-492
6	20848-487	20848-494
8	20848-489	20848-496
10	20848-490	20848-497
12	20848-491	20848-498



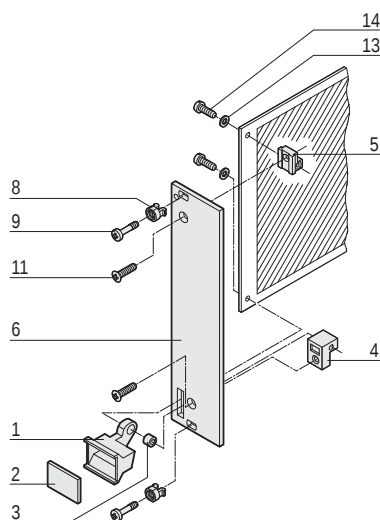
For further information www.schroff.biz/oneclick
oneClick search code = Part no.

Plug-in units – for VME

Kits

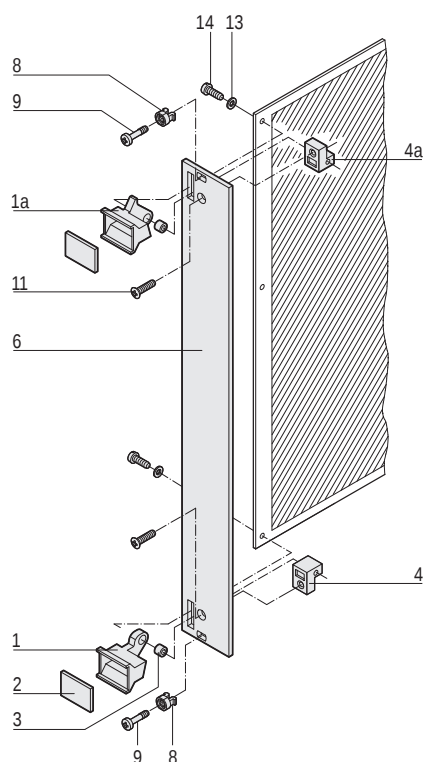
Plug-in units with trapeziform extractor handle, type 1 – front panel unshielded

3 U



04602060

6 U



04602061

- At 6 U the board position can be offset by 1 HP to the right by swapping the top and bottom board supports; thus space is created for SMD components on the left (solder) side; for board thickness 1.6 mm only

Delivery comprises (kit)

Item	Qty	3 U	6 U	Description
1	1	1		Extractor handle, trapezium shape, PPE, grey, bottom
1a	–	1		Extractor handle, trapezium shape, PPE, grey, top
2	1	2		Identification plate, Al, 1.5 mm, anodised, cut edges plain
3	1	2		Pivot bush, Ms
4	1	1		Board support, die-cast zinc, bottom
4a	–	1		Board support, die-cast zinc, top
5	1	–		Board support, die-cast zinc
6	1	1		Front panel for trapeziform extractor handle, front anodised, rear iridescent green chromated
8	2	2		Sleeve, PA, grey, up to 7 HP front panel width
8	4	4		Sleeve, PA, grey, from 8 HP front panel width
9	2	2		Collar screw, Pozidrive/slot, St, nickel-plated, M2.5 × 11 and 12.3, front panel width up to 7 HP
9	4	4		Collar screw, Pozidrive/slot, St, nickel-plated, M2.5 × 11 and 12.3, front panel width from 8 HP
11	1	2		Raised countersunk panhead screw, M2.5 × 8
13	2	2		Washer, A2.7, DIN 125
14	2	2		Pozidrive flathead screw, St, nickel-plated, M2.5 × 10

Order Information

Width	3 U	6 U
HP	Part no.	Part no.
4	20817-443	20817-448
5	20817-444	20817-449
6	20817-445	20817-450
7	20817-446	20817-451
8	20817-447	20817-452
10	20817-456	20817-458
12	20817-457	20817-459



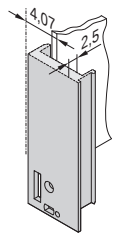
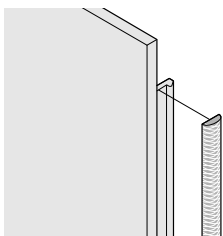
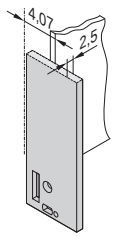
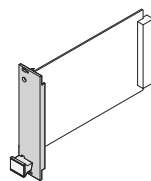
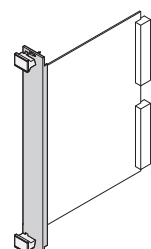
For further information www.schroff.biz/oneclick
oneClick search code = Part no.

Plug-in units – for VME

Individual
components

Front panels and EMC gaskets, for trapezoidal extractor handle, type 1

Order Information

		Front panel, U profile, shieldable  04608091 Al profile, front anodised, rear conductive, alignment pin pressed-in, stainless steel	Textile EMC gasket  BGA45760 always fixed laterally on the front panel, in the groove of the profile, textile gasket, core: foam, sleeve: textile cladding with CuNi coating, UL 94 V-0, temperature range -40 ... 70 °C		Front panel, unshielded  04608092 front panel, Al, 2.5 mm, front anodised, rear iridescent green chromated
	Width HP	1 piece (SPQ 5) ¹⁾	PU 10 pieces	PU 100 pieces	1 piece (SPQ 5) ¹⁾
3 U Height					
	4	30848-461	21101-853	21101-854	30847-659
	5	—			30847-660
	6	30848-463			30847-661
	7	—			30847-662
	8	30848-465			30847-663
	10	30848-466			30847-664
	12	30848-467			30847-665
6 U Height					
	4	30848-468	21101-855	21101-856	30847-666
	5	—			30847-667
	6	30848-470			30847-668
	7	—			30847-669
	8	30848-472			30847-670
	10	30848-473			30847-671
	12	30848-474			30847-672
Dimensions see page		7.43			7.43

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

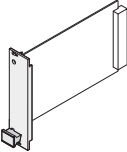
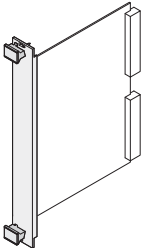
Part no. includes one packing unit (PU); delivery is exclusively made in PU

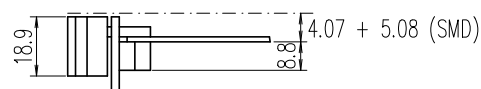
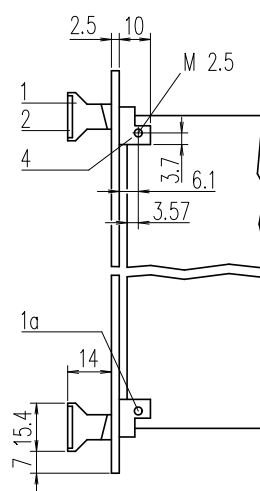
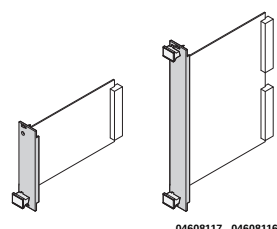
Plug-in units – for VME

Individual
components

Trapeziform extractor handles, type 1

Order Information

	Trapeziform extractor handle	
	black	grey
		
	04608093	04608094
	handle closed laterally, PPE, UL 94 V-1, black; pivot bush; identification plate, Al, 1.5 mm, anodised, cut edges plain; board support die-cast zinc; in the 6 U version, space can be created for SMD components on the left side by swapping the top and bottom handles and thus moving the PCB position 1 HP to the right	
Width HP	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾
	3 U Height top	
	20817-329	20817-327
	6 U Height top	
	20817-330	20817-328
	bottom	
	20817-329	20817-327



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

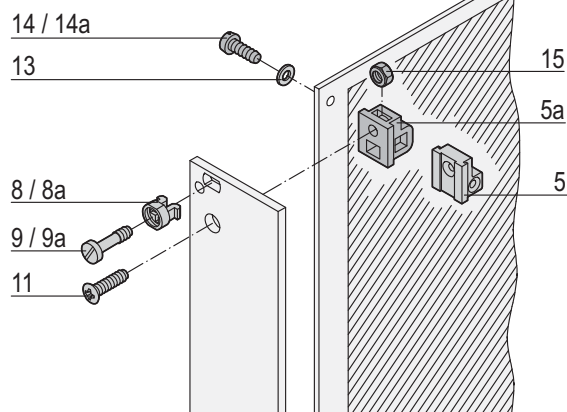
bga42556

Plug-in units – for VME

Individual
components

Fixing material for trapeziform extractor handle, type 1

Order Information



bga42545

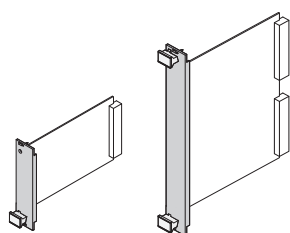
Fixing material	Item		Required Qty				Qty/PU	Part no.
			3 U		6 U			
			< 8 HP	≥ 8 HP	< 8 HP	≥ 8 HP		
Board support, die-cast zinc, with thread M2.5, for front panel and PCB fixing	5	 06707050	1	2	2	4	1 piece (SPQ 10) ¹⁾	60807-181
Board support, plastic, PBT, UL 94 V-0, grey, with recess for hexagon nut M2.5, for fixing front panel	5a	 AZA45177	1	2	2	4	1 piece (SPQ 10) ¹⁾	60807-183
Plastic sleeve, for form hole 5.9 x 3.3 PA, UL 90 V-2, grey	8	 aza45933	2	4	2	4	100	21100-464
Metal sleeve, for form hole 5.9 x 3.3, press-in Stainless steal	8a	 aza45934	2	4	–	–	100	21100-662
Pozidrive/slotted collar screw M2.5 × 11, St, nickel-plated	9	 AZA46586	2	4	2	4	100	21100-748
Pozidrive/slotted collar screw M2.5 × 12.3, St, nickel-plated	9a	 AZA46586	2	4	2	4	100	21101-101
Raised Pozidrive countersunk screw M2.5 × 8, St, nickel-plated	11	 06702056	2	2	2	2	100	21100-429
Washer 2.7 DIN 125, St, nickel-plated, 100 pieces	13	 AZA46586	2	2	2	2	100	21100-721
Pozidrive panhead screw M2.5 × 10, St, nickel-plated for item 5	14	 AZA45177	2	2	2	2	100	21101-220
Panhead screw, self-tapping 2.5 x 8, St, zinc-plated for item 5b	14a	 06702057	1	1	–	–	100	21100-710
Hexagon nut M2.5, nickel-plated steel for item 5b	15	 aza43239	1	1	–	–	100	21100-144

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

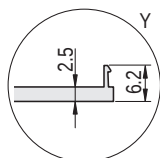
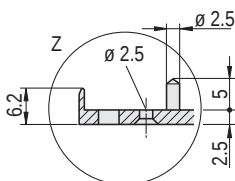
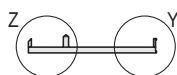
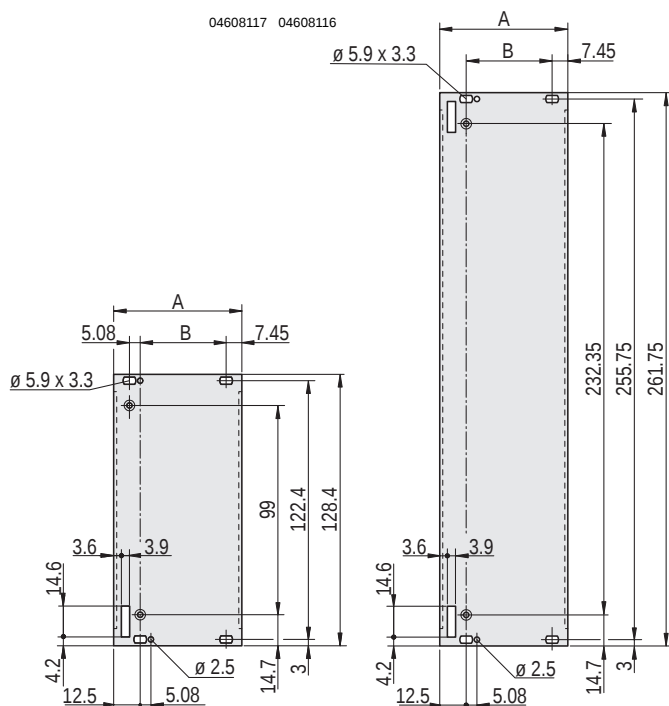
Plug-in units – for VME

Dimensions

Front panels for trapezoidal extractor handles, type 1, shielded/unshielded



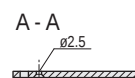
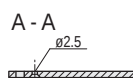
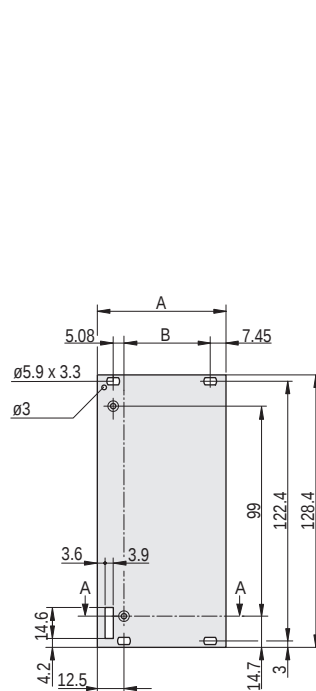
04608117 04608116



3 U

6 U

04603064



3 U

6 U

04603063

Dimensions table

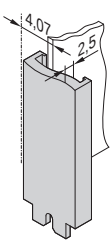
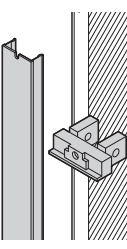
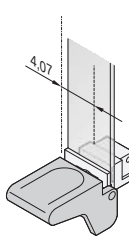
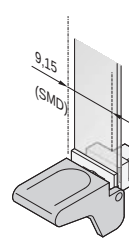
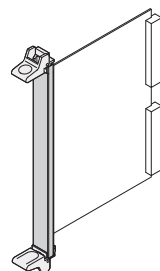
Width	A	B
HP	mm	mm
4	19.98	—
5	25.06	—
6	30.14	—
7	35.22	—
8	40.30	20.32
10	50.46	30.48
12	60.62	40.64

Plug-in units – for Multibus II

Individual
components

Front panels/extractor handles for Multibus® II, symmetrical/SMDversion

Order Information

	Width HP	U front profile	Mounting block for D-Sub connector (50 pin)	Extractor handle for Multibus® II	
				symmetrical handle grey, RAL 7032	SMD handle grey, RAL 7032
		 Al extrusion, 1 mm 04608095	 for fixing D-Sub connectors 50-pin, thread on front UNC4/40; required quantity: for 6 U 1x, for 9 U 2x 04608098	 04608099 extractor handle for Multibus® II, PC, UL 94 V-0; bearing, Zn die-cast, nickel-plated; slotted cheesehead screw, M2.5 x 6, PoziDrive/slotted collar screw, M2.5 x 12.3, St, nickel-plated in the 6 U version, space can be created for SMD components on the left side by swapping the top and bottom handles and thus moving the PCB position 1 HP to the right	 04608108
		1 piece (SPQ 5) ¹⁾	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾
 04608120		6 U Height		6 U Height top	
	4	30829-001	60829-008	20829-011	20829-004
				bottom	
				20829-011	20829-003
		9 U Height		9 U Height top	
	4	30829-007	60829-008	20829-011	20829-004
				bottom	
				20829-011	20829-003
Dimensions see page		7.45	7.45	7.45	7.45

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

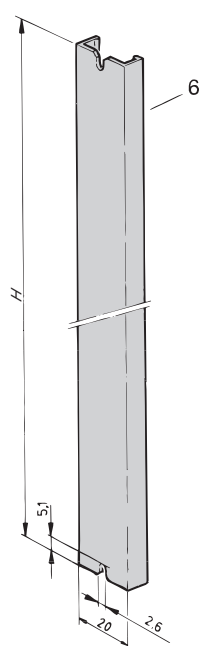
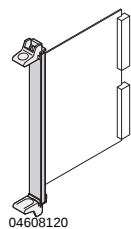
Part no. includes one packing unit (PU); delivery is exclusively made in PU

Plug-in units – for Multibus II

Dimension
drawings

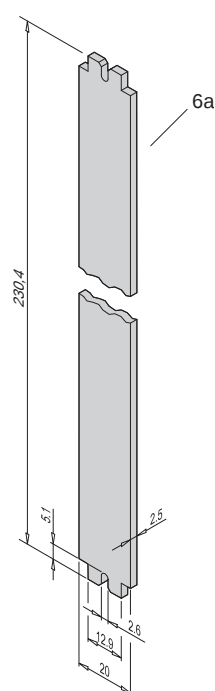
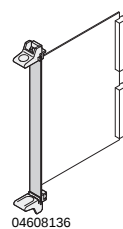
Front panels, U profile / front panel for Multibus® II

6/9 U



04608120

6 U



04608136

Dimensions
table

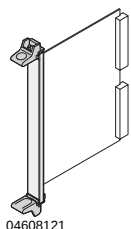
Height U	Height mm
6	230.4
9	363.7

A4-2580

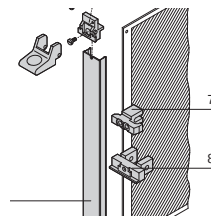
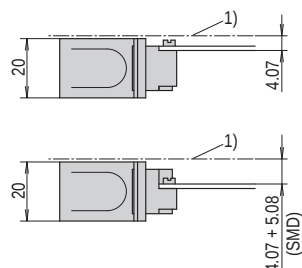
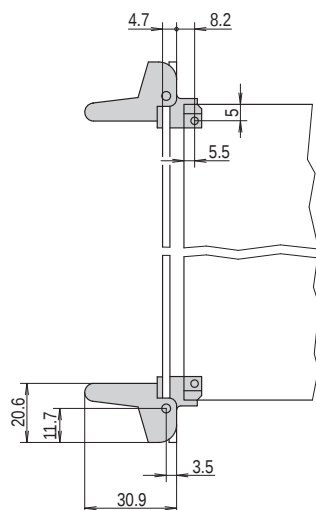
BGA46120

Dimensions

Extractor handles, mounting block for Multibus® II

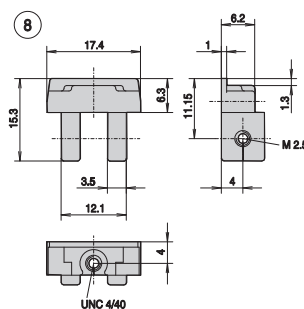
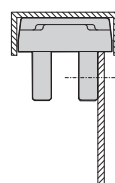


04608121



BGA42549

for D-Sub connector (50 pin)



BGA42585

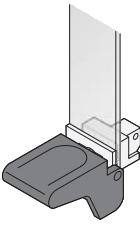
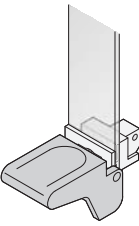
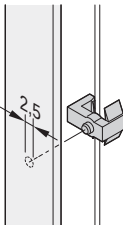
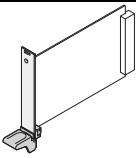
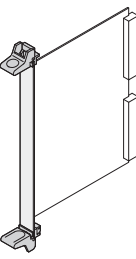
gba42579

Plug-in units – for IEC 60297, key form 1

Individual
components

Extractor handles in key form 1

Order Information

	Extractor handle		Front panel	Fixing clip
	black	grey		
	 04608101	 04608102	 04608103	 bga42544
	extractor handle in key form 1, PC, UL 94 V-0; bearing Zn die-cast, nickel-plated; slotted cheesehead screw, M2.5 x 6 (fitted); in the 6 U version, space can be created for SMD components on the left side by swapping the top and bottom handles and thus moving the PCB position 1 HP to the right		Al, 2.5 mm; available on request	for fixing PCB to the front panel (blind hole X2.6, depth 1.3 mm); also for SMD applications; clip, PPE, UL 94 V-0, red
Width HP	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾		PU 100 pieces
 04608123	3 U Height bottom			
	20817-345	20817-325	—	—
 04608122	6 U Height top			
	20817-346	20817-326	—	21100-719
	bottom			
	20817-345	20817-325	—	
Dimensions see page	7.48	7.48	7.48	

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

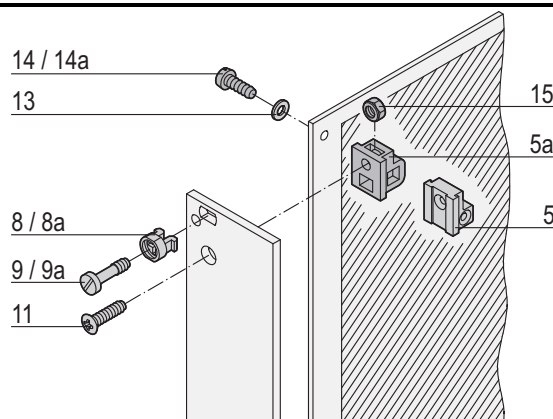
Part no. includes one packing unit (PU); delivery is exclusively made in PU

Plug-in units – for IEC 60297, key form 1

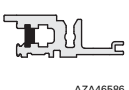
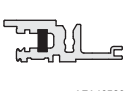
Individual
components

Fixing material for extractor handle in key form 1

Order Information



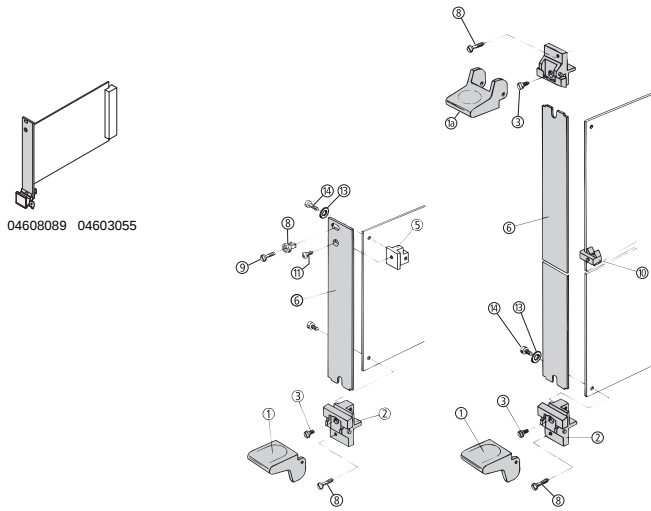
bga42545

Fixing material	Item		Required Qty		Qty/PU	Part no.
			3 U	6 U		
Board support, die-cast zinc, with thread M2.5, for front panel and PCB fixing	5	 06707050	1	—	1 piece (SPQ 10) ¹⁾	60807-181
Board support, plastic, PBT, UL 94 V-0, grey, with recess for hexagon nut M2.5, for fixing front panel	5a	 AZA45177	1	—	1 piece (SPQ 10) ¹⁾	60807-183
Plastic sleeve, for form hole 5.9 x 3.3 PA, UL 90 V-2, grey	8	 aza45933	1	—	100	21100-464
Metal sleeve, for form hole 5.9 x 3.3, press-in Stainless steel	8a	 aza45934	1	—	100	21100-662
Pozidrive/slotted collar screw M2.5 x 11, St, nickel-plated	9	 AZA46586	2	2	100	21100-748
Pozidrive/slotted collar screw M2.5 x 12.3, St, nickel-plated	9a	 AZA46586	2	2	100	21101-101
Raised Pozidrive countersunk screw M2.5 x 8, St, nickel-plated	11	 06702056	1	—	100	21100-429
Washer 2.7 DIN 125, St, nickel-plated, 100 pieces	13	 AZA46586	2	2	100	21100-721
Pozidrive panhead screw M2.5 x 10, St, nickel-plated for item 5	14	 AZA45177	2	2	100	21101-220
Pan head screw, self-tapping 2.5 x 8, St, zinc-plated for item 5b	14a	 06702057	1	—	100	21100-710
Hexagon nut M2.5, nickel-plated steel for item 5b	15	 aza43239	3	6	100	21100-144

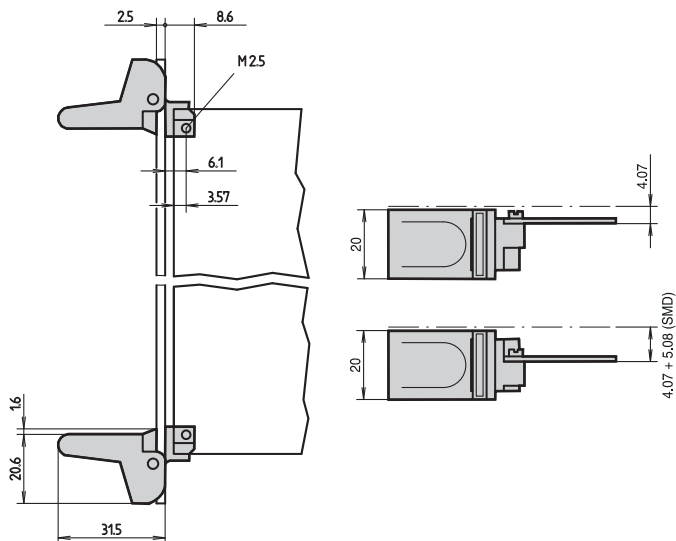
1) SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple

Plug-in units – for IEC 60297, key form 1

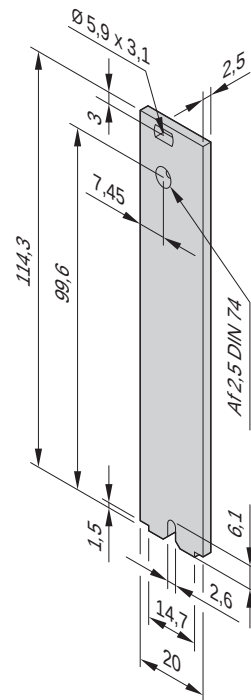
Dimensions Extractor handles/front panels key form 1



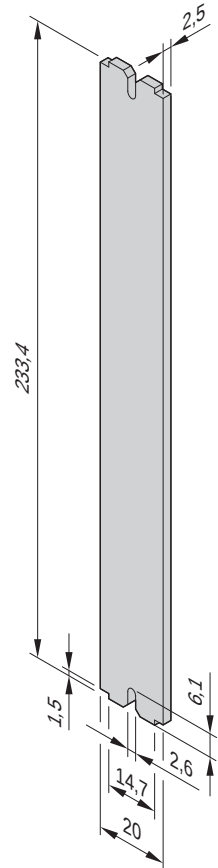
04608089 04603055



04603056



3 U



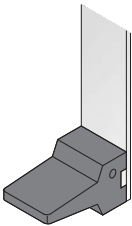
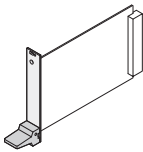
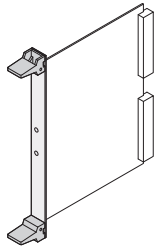
6 U

04603057

Plug-in units – for IEC 60297, key form 2

Individual components Extractor handles in key form 2

Order Information

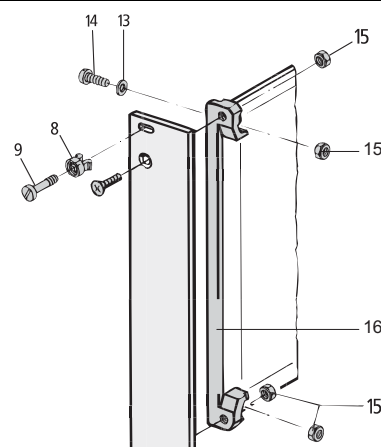
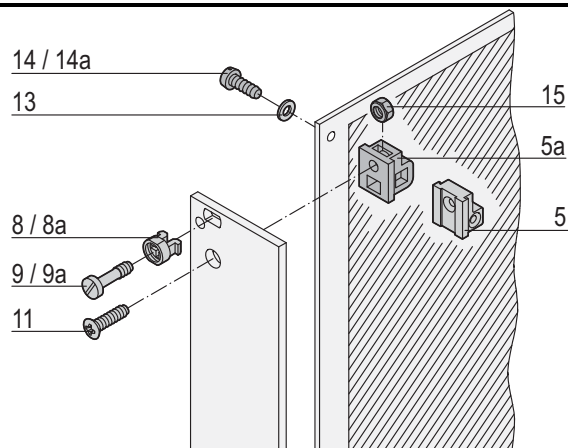
	Extractor handle black	Front panel
	 04608104 extractor handle, PBT, UL 90 V-0; bearing Zn die-cast, nickel-plated; incl. assembly kit for handle mounting	 04608106 Al, 2.5 mm; available on request
Width HP	1 piece (SPQ 10)¹	
 04608124	3 U Height top	
	20808-137	—
 04608125	6 U Height top	
	20808-137	—
	bottom	
	20808-137	—
Dimensions see page	7.51	7.51

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

Plug-in units – for IEC 60297, key form 2

Individual components Fixing material for extractor handles, key form 2

Fixing material for extractor handles, key form 2



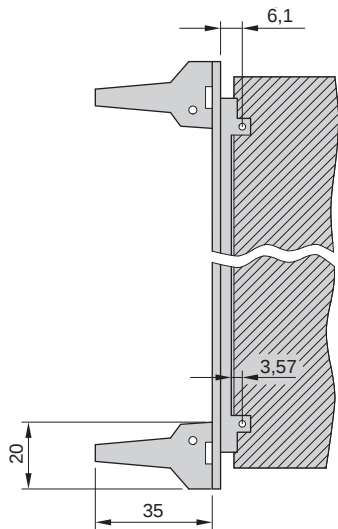
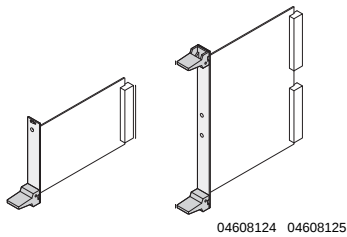
bga42545 04608137

Fixing material	Item		Required Qty		Qty/PU	Part no.
			3 U	6 U		
Board support, die-cast zinc, with thread M2.5, for front panel and PCB fixing	5		1	2	1 piece (SPQ 10) ¹⁾	60807-181
Board support, plastic, PBT, UL 94 V-0, grey, with recess for hexagon nut M2.5, for fixing front panel	5a		1	2	1 piece (SPQ 10) ¹⁾	60807-183
Plastic sleeve, for form hole 5.9 x 3.3 PA, UL 90 V-2, grey	8		1	–	100	21100-464
Metal sleeve, for form hole 5.9 x 3.3, press-in Stainless steel	8a		1	–	100	21100-662
Pozidrive/slotted collar screw M2.5 x 11, St, nickel-plated	9		2	2	100	21100-748
Pozidrive/slotted collar screw M2.5 x 12.3, St, nickel-plated	9a		2	2	100	21101-101
Raised Pozidrive countersunk screw M2.5 x 8, St, nickel-plated	11		1	–	100	21100-429
Washer 2.7 DIN 125, St, nickel-plated, 100 pieces	13		2	2	100	21100-721
Pozidrive panhead screw M2.5 x 10, St, nickel-plated for item 5	14		2	2	100	21101-220
Panhead screw, self-tapping 2.5 x 8, St, zinc-plated for item 5b	14a		1	–	100	21100-710
Hexagon nut M2.5, nickel-plated steel for item 5b	15		3	–	100	21100-144
PCB bracket 4 clearance holes for front panel/PCB fixing, 4 recesses for hexagon nuts; PBT, UL 94 V-2, red	16		1	2	1 piece (SPQ 10)	60807-011

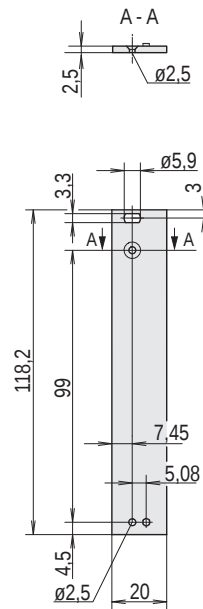
1) SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple

Plug-in units – for IEC 60297, key form 2

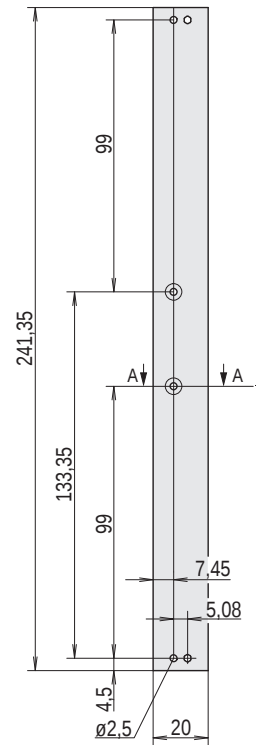
Dimensions Handles/front panels key form 2



BGA42573



3 U

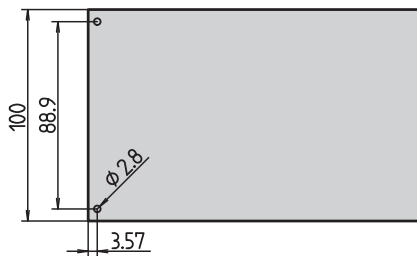


6 U

BGA42578

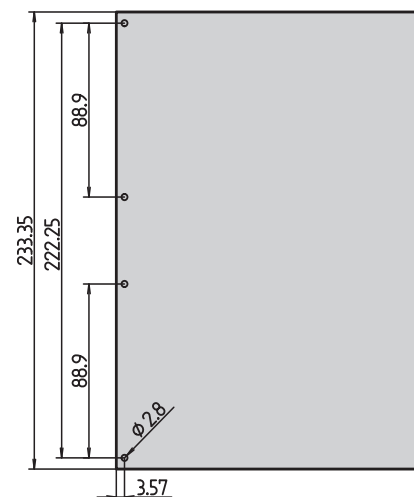
Dimensions Drill hole dimensions on the PCB key form 2

3 U



BGA43076

6 U



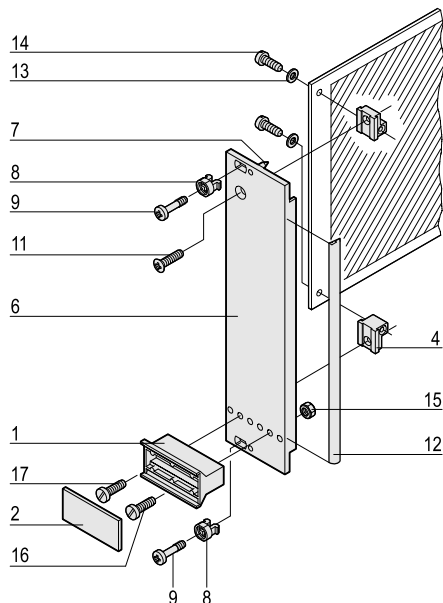
BGA43077

Plug-in units – for IEC 60297, trapeziform

Kits

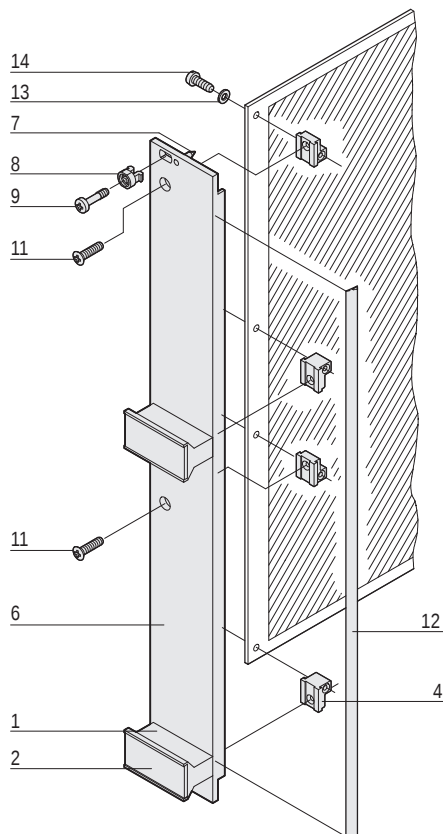
Plug-in unit with static trapeziform handle

3 U



04602062

6 U



04602063

- Front panel, U-profile, shielded
- Handle without extraction function

Delivery comprises

Item	Qty		Description
	3 U	6 U	
1	1	2	Plastic handle, trapeziform, PPE, grey
2	1	2	Identification plate, Al, 1.5 mm, anodised, cut edges plain
4	2	4	Board support, die-cast zinc
6	1	1	Front panel, U profile, for trapeziform handle, front anodised, rear conductive
7	2	2	Alignment pin, pressed-in, stainless steel
8	2	2	Sleeve, PA, grey, up to 7 HP front panel width
8	4	4	Sleeve, PA, grey, from 8 HP front panel width
9	2	2	Pozidrive/slotted collar screw, St, nickel-plated, M2.5 × 11 and 12.3, front panel width up to 7 HP
9	4	4	Pozidrive/slotted collar screw, St, nickel-plated, M2.5 × 11 and 12.3, front panel width from 8 HP
11	1	2	Raised countersunk screw, St, nickel-plated, M2.5 × 8
12	1	1	EMC sealing (textile)
13	2	4	Washer, A2.7, DIN 125
14	2	4	Pozidrive flathead screw, St, nickel-plated, M2.5 × 10
15	1	2	Hexagon nut, St, nickel-plated, M2.5
16	1	2	Pozidrive flathead screw, St, nickel-plated, M2.5 × 12
17	1	2	Pozidrive flathead screw, St, nickel-plated, M2.5 × 16

Order Information

Width HP	Qty	
	3 U	6 U
	Part no.	Part no.
3	20848-663	20848-671
4	20848-664	20848-672
5	20848-665	20848-673
6	20848-666	20848-674
7	20848-667	20848-675
8	20848-668	20848-676
10	20848-669	20848-677
12	20848-670	20848-678



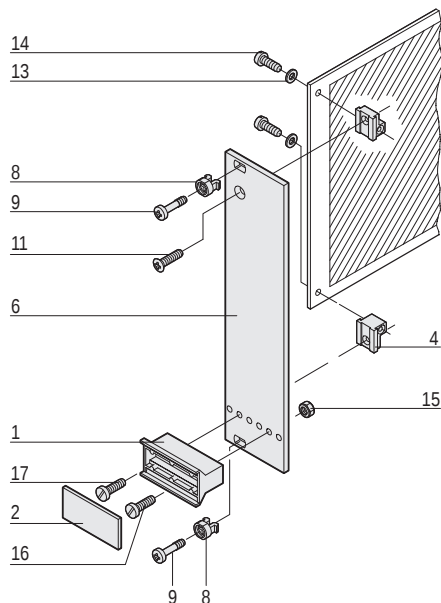
For further information www.schroff.biz/oneclick
oneClick search code = Part no.

Plug-in units – for IEC 60297, trapeziform

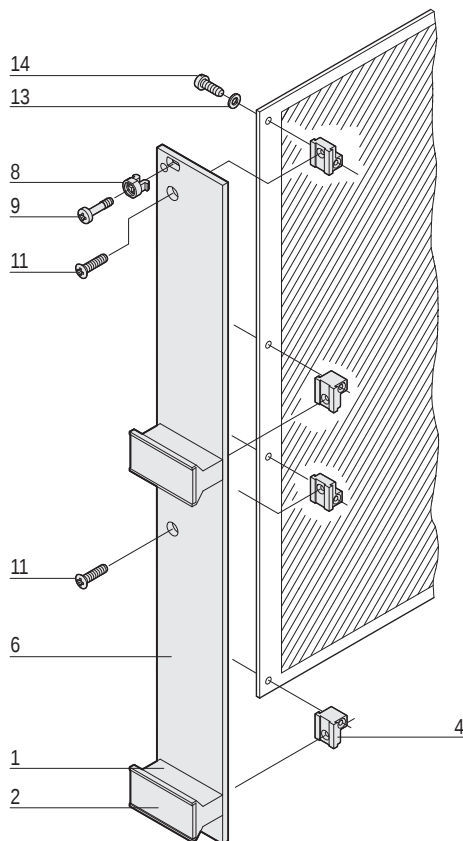
Kits

Plug-in unit with static trapeziform handle

3 U



6 U



■ Front panel unshielded

■ Handle without extraction function

Delivery comprises

Item	Qty	3 U	6 U	Description
1	1	2		Plastic handle, trapeziform, PPE, grey
2	1	2		Identification plate, Al, 1.5 mm, anodised, cut edges untreated
4	2	4		Board support, die-cast zinc
6	1	1		Front panel for trapeziform handle, front anodised, rear iridescent green chromated
8	2	2		Sleeve, PA, grey, up to 7 HP front panel width
8	4	4		Sleeve, PA, grey, from 8 HP front panel width
9	2	2		Pozidrive/slotless collar screw, St, nickel-plated, M2.5 × 11 and 12.3, front panel width up to 7 HP
9	4	4		Pozidrive/slotless collar screw, St, nickel-plated, M2.5 × 11 and 12.3, front panel width from 8 HP
11	1	2		Raised countersunk screw, St, nickel-plated, M2.5 × 8
13	2	4		Washer, A2.7
14	2	4		Pozidrive flathead screw, St, nickel-plated, M2.5 × 8
15	1	2		Hexagon nut, St, nickel-plated, M2.5
16	1	2		Pozidrive flathead screw, St, nickel-plated, M2.5 × 12
17	1	2		Pozidrive flathead screw, St, nickel-plated, M2.5 × 16

Order Information

Width	3 U	6 U
HP	Part no.	Part no.
3	20818-017	20809-507
4	20818-018	20818-025
5	20818-019	20818-026
6	20818-020	20818-027
7	20818-021	20818-162
8	20818-022	20818-028
10	20818-023	20818-029
12	20818-024	20818-120



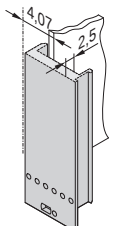
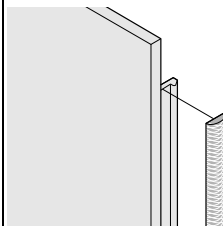
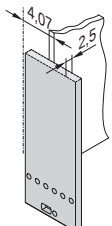
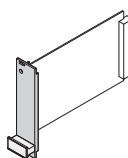
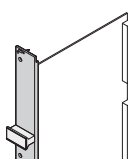
For further information www.schroff.biz/oneclick
oneClick search code = Part no.

Plug-in units – for IEC 60297, trapeziform

Individual
components

Front panels for static cantilever handles

Order Information

		Front panel, U-profile, shieldable		Front panel unshielded
		Front panel, U-profile	Textile EMC gasket	
		 04608130 Al extrusion, front anodised, rear conductive, alignment pin pressed-in, stainless steel	 bga45760 always fixed laterally on the front panel, in the groove of the profile, textile gasket, core: foam, sleeve: textile cladding with CuNi coating, UL 94 V-0, temperature range -40 ... 70 °C	 04608131 front panel, Al 2.5 mm; front anodised; rear iridescent green chromated
Width HP		1 piece (SPQ 5) ¹⁾	PU 10 pieces PU 100 pieces	1 piece (SPQ 5) ¹⁾
		3 U Height		
 04608126		3	30849-086	30847-602
		4	30849-087	30847-603
		5	30849-088	30847-604
		6	30849-089	30847-605
		7	30849-090	30847-606
		8	30849-091	30847-607
		10	30849-092	30847-608
		12	30849-093	30847-609
		21101-853	21101-854	
		6 U Height		
 04608127		3	30849-097	30847-625
		4	30849-098	30847-626
		5	30849-099	30847-627
		6	30849-100	30847-628
		7	30849-101	—
		8	30849-102	30847-630
		10	30849-103	30847-631
		12	30849-104	—
		21101-855	21101-856	
Dimensions see page		7.58		7.58

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

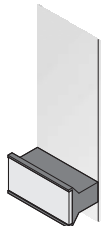
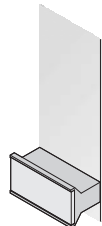
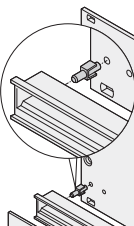
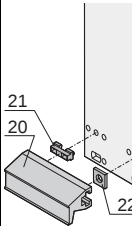
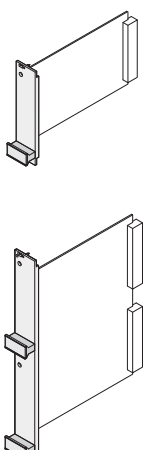
Part no. includes one packing unit (PU); delivery is exclusively made in PU

Plug-in units – for IEC 60297, trapeziform

Individual
components

Static trapeziform handle

Order Information

	Plastic handle in trapeziform			Al profile handle		
	Trapeziform handle black	Trapeziform handle grey	Fixing clip	Handle	Fixing part for Al profile handle	Square nut
	 04608132	 04608133	 04808064	 04608134	 04608135	 06707050
	handle: PPE, UL 94 V-1; identification plate: Al, 1.5 mm, anodised, cut edges plain; please order clip separately; required quantity: 1 handle for 3 U, 2 handles for 6 U		clip, PPE, UL 94 V-0, black, mounting aid from 5 HP to 42 HP	Al extrusion, anodised; fixing part, POM, black; square nut, St, nickel-plated; at length of 1000 mm only Al extrusion	fixing part, POM, black	DIN 562, M2.5, St, nickel-plated
Width HP	1 piece (SPQ 5) ¹⁾	1 piece (SPQ 5) ¹⁾	PU 100 pieces	1 piece (SPQ 10) ¹⁾	PU 100 pieces	PU 100 pieces
3 / 6 U Height						
 04608128 04608129	3	20809-396	20809-294	21101-239	20809-281	
	4	20809-397	20809-295		20809-282	
	5	20808-080	20808-003		20809-283	
	6	20808-081	20808-060		20809-284	
	7	20808-082	20808-061		20809-285	
	8	20808-083	20808-062		20809-286	
	9	20808-084	20808-063		20809-287	
	10	20808-085	20808-004		20809-288	—
	12	20808-086	20808-064		20809-289	
	14	20808-087	20808-065		20809-290	
	21	20808-088	20808-066		20809-291	
	28	20808-089	20808-067		20809-292	
	40	20808-090	20808-009		—	
	42	20808-091	20808-068		20809-293	
	61	20808-092	20808-012		—	
	1000 mm	—	—	—	30809-428	21100-476 21100-359
Fixing material see page	7.57 Item 15, 16, 17					
Dimensions see page	7.57	7.57		7.59	7.59	7.59

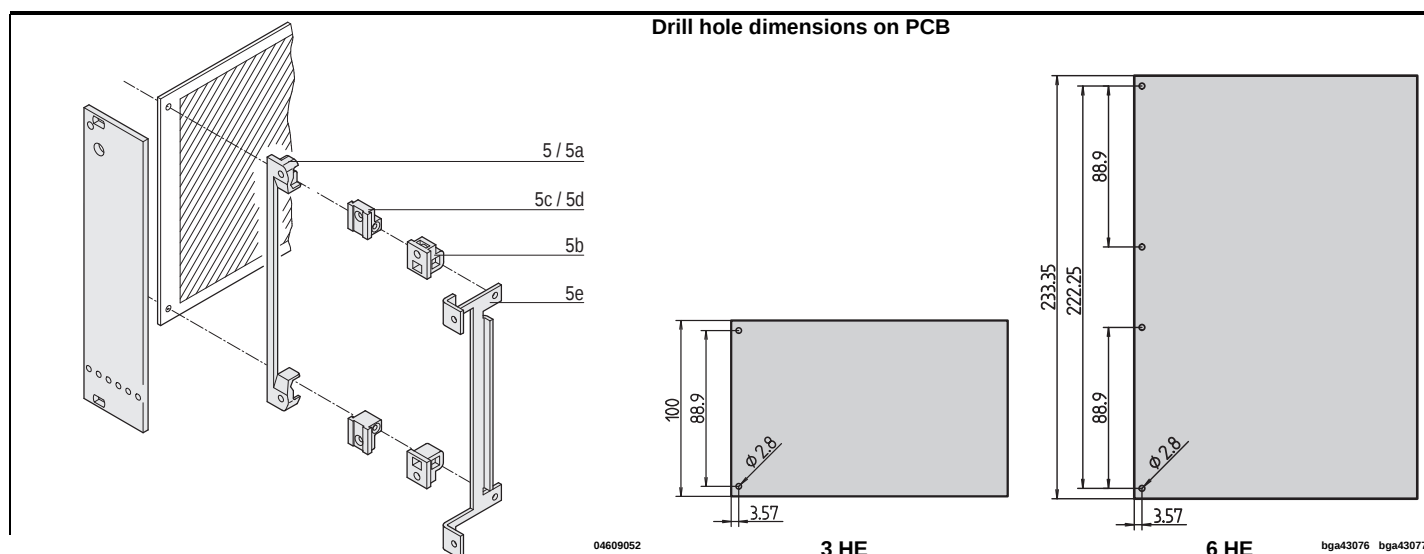
1) SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple

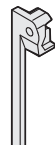
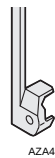
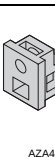
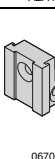
Part no. includes one packing unit (PU); delivery is exclusively made in PU

Plug-in units – for IEC 60297, trapeziform

Individual
components

PCB bracket for static trapeziform handle



	Item		Required Qty		Qty/PU	Part no.
			3 U	6 U		
PCB bracket 4 clearance holes for front panel/PCB fixing, 4 recesses for hexagon nuts; PBT, UL 94 V-0, red	5		1	2	1 piece (SPQ 10) ¹⁾	60807-011
PCB bracket 4 threads M2.5 for front panel/PCB fixing, PBT, UL 94 V-0, grey, 1 piece	5a	 AZA45177	1	2	1 piece (SPQ 10) ¹⁾	60807-211
PCB bracket Clearance hole for front panel fixing, with recess for hexagon nut, drill hole for self-tapping screw for PCB fixing, PBT, UL 94 V-0, grey, 1 piece	5b	 AZA45177	2	4	1 piece (SPQ 10) ¹⁾	60807-183
PCB bracket 2 threads M2.5 for front panel/PCB fixing, die-cast zinc, 1 piece	5c	 06707050	2	4	1 piece (SPQ 10) ¹⁾	60807-181
PCB bracket Thread M2.5 for front panel fixing, clearance hole for PCB fixing, die-cast zinc, 1 piece	5d	 06707050	2	4	1 piece (SPQ 10) ¹⁾	60807-203
PCB bracket 4 M2.5 threads for fixing front panel/PCB for recessed PCB mounting (20 mm), mounting depth 192.24 mm, St, zinc-plated; not for europacPRO, multipacPRO, ratiopacPRO, propacPRO or compacPRO, 1 piece	5e	 AZA46586	1	2	1 piece (SPQ 10) ¹⁾	30808-871

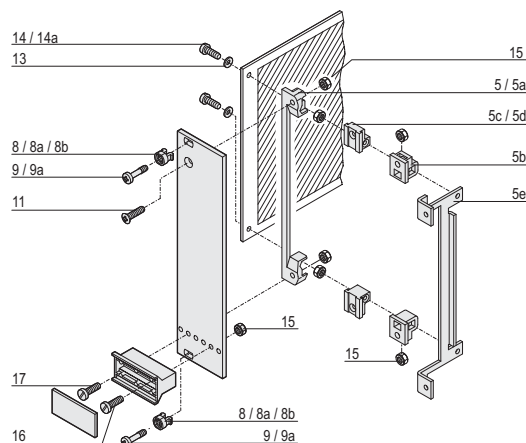
1) SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple

Plug-in units – for IEC 60297, trapeziform

Individual
components

Fixing material for static trapeziform handle

3 U

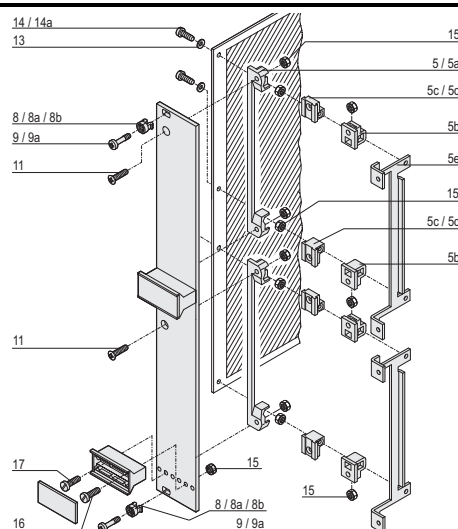


04609053

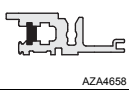
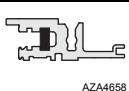
6 U

top

bottom



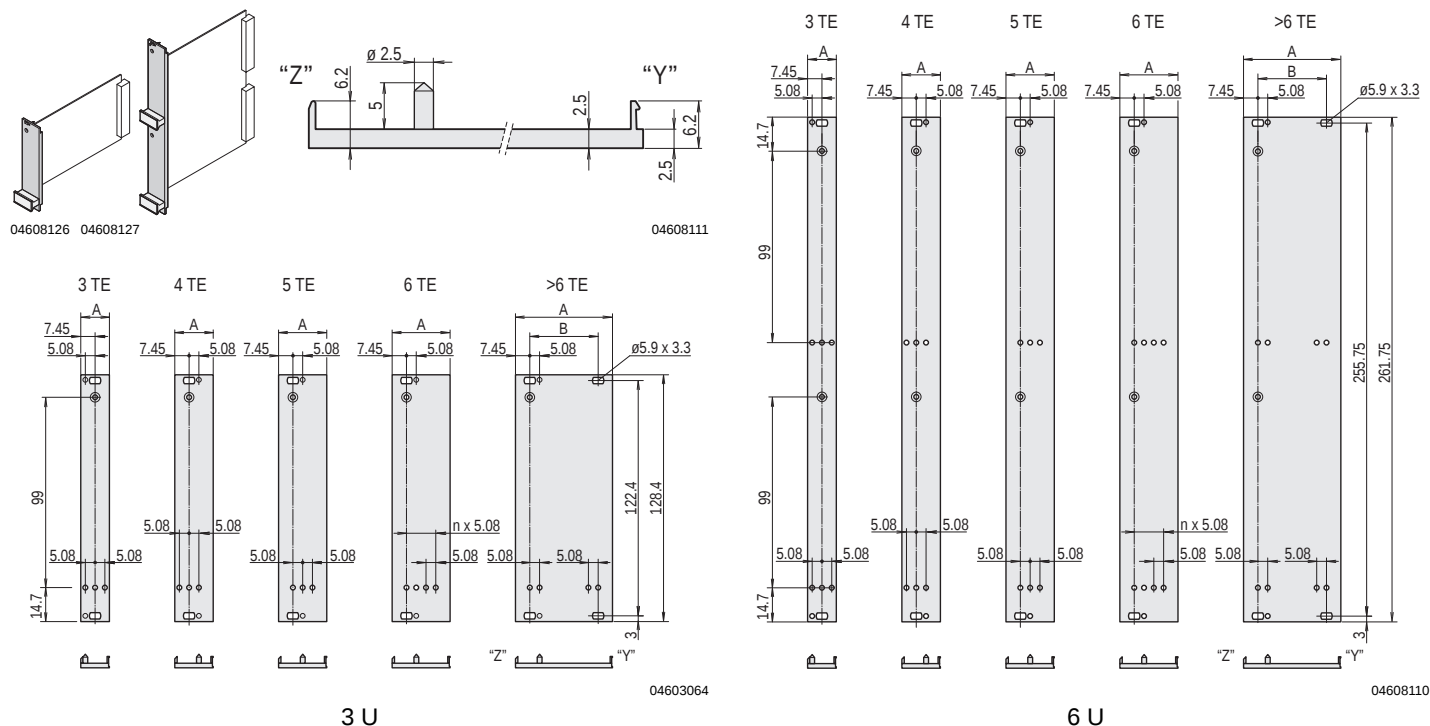
04609054

	Item		Required Qty				Qty/PU	Part no.
			3 U		6 U			
			< 8 HP	≥ 8 HP	< 8 HP	≥ 8 HP		
Plastic sleeve, for form hole 5.9 x 3.3 PA, UL 90 V-2, grey	8	 aza45933	2	4	2	4	100	21100-464
Metal sleeve, for form hole 5.9 x 3.3, press-in Stainless steal	8	 aza45934	2	4	2	4	100	21100-662
Metal sleeve, for form hole 5.9 x 3.3, to press-in Nickel-plated brass	8a	 aza45934	2	4	2	4	100	21100-660
Pozidrive/slotted collar screw M2.5 × 11, St, nickel-plated not for europacPRO and cases	9	 AZA4658	2	4	2	4	100	21100-748
Pozidrive/slotted collar screw M2.5 × 12.3, St, nickel-plated	9a	 AZA4658	2	4	2	4	100	21101-101
Raised Pozidrive countersunk screw M2.5 × 8, St, nickel-plated	11	 06702056	1	1	2	2	100	21100-429
Washer 2.7 DIN 125, St, nickel-plated, 100 pieces	13	 AZA46586	2	2	4	4	100	21100-721
Pozidrive panhead screw M2.5 × 8, nickel-plated steel if using item 13	14	 06702057	2	2	4	4	100	21101-069
Panhead screw, self-tapping 2.5 x 8, St, zinc-plated for items 5 and 5b	14a	 06702057	1	1	—	—	100	21100-710
Hexagon nut M2.5, nickel-plated steel for items 5 and 5b	15	 aza43239	4	4	8	8	100	21100-144
	5b		2	2	4	4		
Pozidrive panhead screw M2.5 × 12, nickel-plated steel	16	 06702057	1	1	2	2	100	21101-221
Pozidrive panhead screw M2.5 × 16, nickel-plated steel	17	 06702057	1	1	2	2	100	21101-222

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

Plug-in units – for IEC 60297, trapeziform

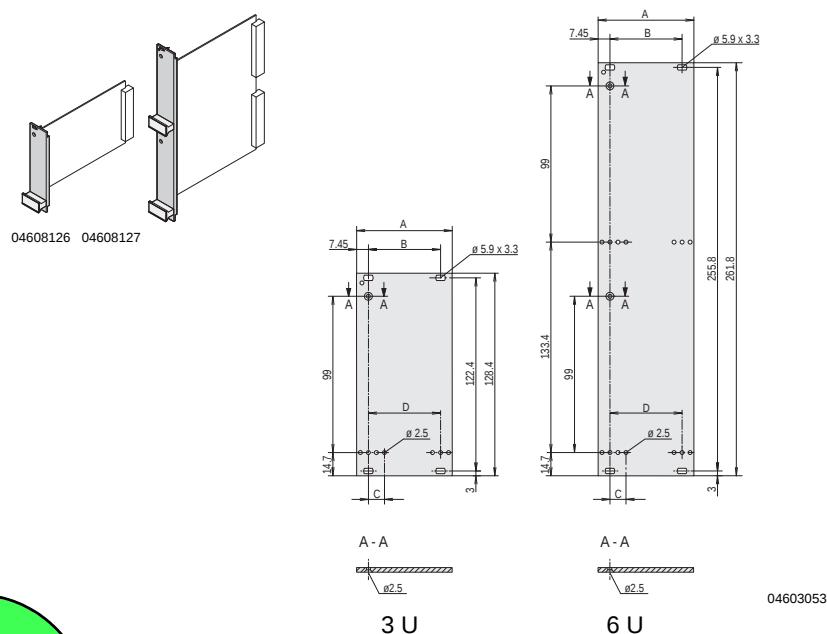
Dimensions Front panels, U profile, shieldable for static trapeziform handle



Dimensions table

Width HP	A mm	B mm
3	14.90	-
4	19.98	-
5	25.06	-
6	30.14	-
7	35.22	-
8	40.30	25.40
10	50.46	35.56
12	60.62	45.72

Dimensions Front panels for static trapeziform handle

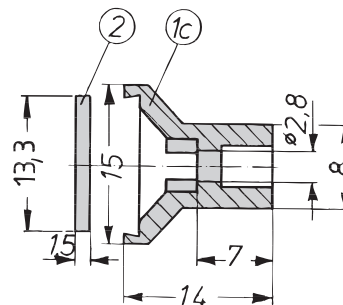


Dimensions table

Width HP	A mm	B mm	C mm	D mm
3	14.90	-	-	-
4	19.98	-	-	-
5	25.06	-	10.16	-
6	30.14	-	-	15.24
7	35.22	-	-	20.32
8	40.30	25.40	-	25.40
10	50.46	35.56	-	35.56
12	60.62	45.72	-	45.72

Plug-in units – for IEC 60297, trapeziform

Dimensions	Static plastic handles, trapeziform
------------	-------------------------------------

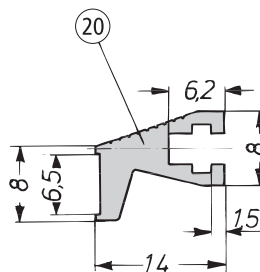


A4--328c

Dimensions table

Item	Width	Width
	HP	mm
1a	3	13.8
1a	4	18.9
1c	5	24.0
1c	6	29.0
1c	7	34.1
1c	8	39.2
1c	9	44.3
1c	10	49.4
1c	12	59.6
1c	14	69.7
1c	21	105.2
1c	28	140.8
1c	40	201.8
1c	42	212.0
1c	61	308.5

Dimensions Aluminium extrusion handles



A4-328d

Dimensions table

Item	Width	Width
20	HP	mm
20	3	13.8
20	4	18.9
20	5	24.0
20	6	29.0
20	7	34.1
20	8	39.2
20	9	44.3
20	10	49.4
20	12	59.6
20	14	69.7
20	21	105.2
20	28	140.8
20	40	201.8
20	42	212.0
20	-	1000

Plug-in units – with mechanical shielding

Plug-in unit with mechanical shielding, 3 U kits



04694001

- Mechanical protection of sub-assembly
- Earthing of shielding panels possible by Faston connectors 6.3 × 0.6 mm
- For euroboards 100 × 160 mm

Handles
without extraction function



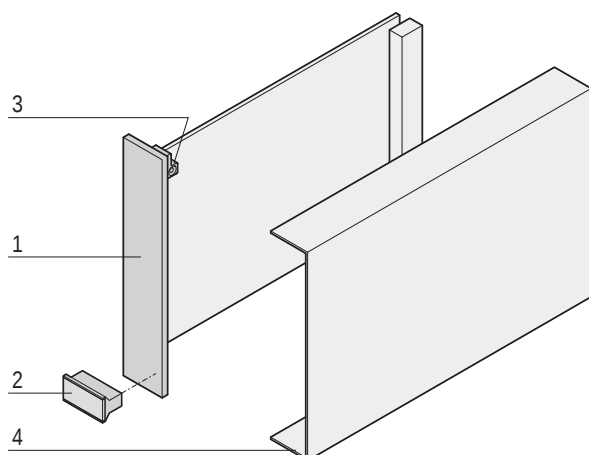
04692003

Handles
with extraction function



04692005

3 U kit, shielding component side, handles with/without extraction function



04602077

- Usable connectors in accordance with EN 60603 (DIN 41612): Construction type B, C, D, F, H, R;

Delivery comprises (kit)

Item	Qty	Description
1	1	Front panel, Al, 2.5 mm, front: anodised, rear: iridescent green chromated
2	1	Trapeziform handle, PPE, UL 94 V-1, grey
3	1	Board support, PBT, UL 94 V-0, red
5	1	Assembly kit (also for shielding panels)

Order Information

Width	H	Plug-in unit without extractionfunction	Plug-in unit with extractionfunction
HP	mm	Part no.	Part no.
6	24.60	20809-502	20809-516

Item 4 Shielding panel
component side for 7 HP
front panel width, stainless
steel, 0.8 mm, 1 piece

20809-371

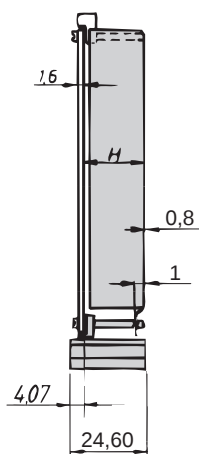
20809-371

Note

- Keying/coding with separate keying/coding strip is not possible
- Please order shielding plates separately



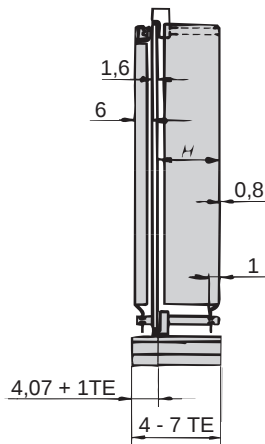
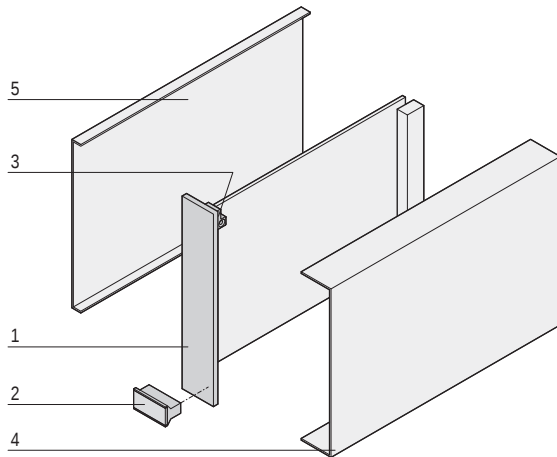
For further information www.schroff.biz/oneclick
oneClick search code = Part no.



a4-237

Plug-in units – with mechanical shielding

3 U kits, both sides shielded
(solder/component side),
handles with/without extraction function



- Usable connectors in accordance with EN 60603 (DIN 41612): Construction type B, C, D, F, H, R;

Delivery comprises

Item	Qty	Description
1	1	Front panel, Al, 2.5 mm, front: anodised, rear: iridescent green chromated
2	1	Trapeziform handle, without extraction function, PPE, UL 94 V-1, grey
3	2	Board support, PBT, UL 94 V-0, red
6	1	Assembly kit (also for shielding panels)

Order Information

Width	H	Plug-in unit without extraction function	Plug-in unit with extraction function
HP	mm	Part no.	Part no.
4	9.60	20809-495	–
5	14.70	20809-496	20809-511
6	19.80	20809-497	20809-512
7	24.90	20809-498	20809-513
Item 4 Shielding panel component side for 4 HP front panel width, stainless steel, 0.8 mm, 1 piece			
		20809-329	20809-329
Item 4 Shielding panel component side or 5 HP front panel width, stainless steel, 0.8 mm, 1 piece			
		20809-357	20809-357
Item 4 Shielding panel component side for 6 HP front panel width, stainless steel, 0.8 mm, 1 piece			
		20809-359	20809-359
Item 4 Shielding panel component side for 7 HP front panel width, stainless steel, 0.8 mm, 1 piece			
		20809-371	20809-371
Item 5 Shielding panel on solder side, stainless steel, 0.8 mm, 1 piece			
		30809-571	30809-571

Note

- Keying/coding with separate keying/coding strip is not possible
- Where the shielding plate is used for the solder side, the PCB is offset to the right by 1 HP



For further information www.schroff.biz/oneclick
oneClick search code = Part no.

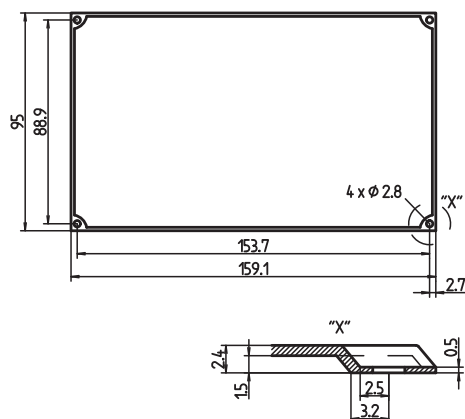
Plug-in units – with mechanical shielding

PCB cover for euroboards



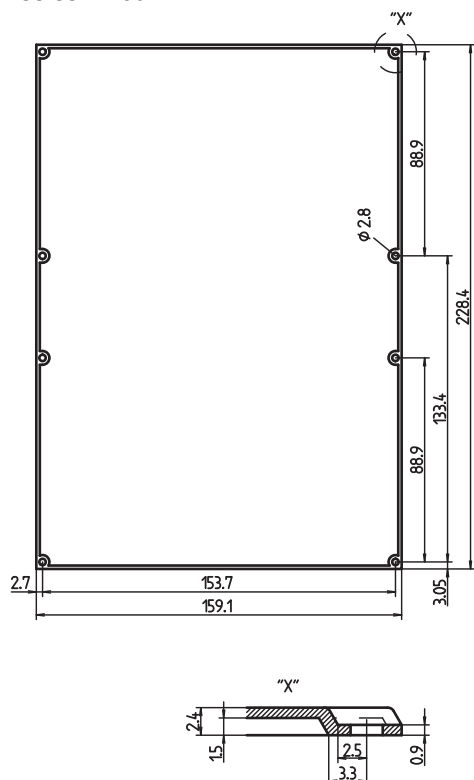
11092008

For PCBs 100 × 160 mm



LKA40520

For PCBs 233.35 × 160 mm



LKA30451

- Mechanical protection of the solder side

Order Information

Description	Qty	Part no.
PCB cover (thickness 0.9 mm) for euroboards (100 × 160 mm), PBT, black, max. operating temperature without permanent deformation 55 °C	1 piece (SPQ 10)	61000-007
PCB cover (thickness 0.9 mm) with similar temperature expansion coefficients to FR4 PCB; for euroboards (100 × 160 mm), LCP, UL 94 V-0, white, max. operating temperature without permanent deformation 85 °C	1 piece (SPQ 10)	61000-177
PCB cover for double euroboards (233.35 × 160 mm), PP, UL 94 V-0, black	1 piece (SPQ 10)	61000-012
Slotted flathead screw M2.5 × 6, height of head 1.2 mm, PU 100 pieces		21102-007
Slotted flathead screw M2.5 × 12, height of head 1.2 mm, PU 100 pieces		21102-008

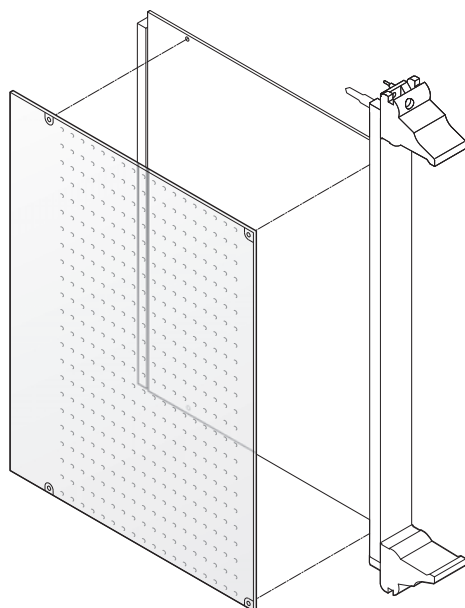
SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity: please order at least 10 pieces of PCB covers or a multiple



For further information www.schroff.biz/oneclick
oneClick search code = Part no.

Plug-in units – with mechanical shielding

PCB cover for CompactPCI



- Mechanical protection of solder side
- Cover is perforated for better cooling of components

Delivery comprises

Item	Qty	Description
1	1	Cover, plastic, 0.5 mm, antistatic, perforated, UL 94 V-0; max. operating temperature 65 °C, max. continuous operating temperature 55 °C

Order Information

Height U	Depth mm	Part no.
6	80	24579-039
3	160	24579-037
6	160	24579-038
Fixing clips PU 100 pieces		21101-914

Note

- Fixing clips are required for mounting the perforated covers; please order separately



For further information www.schroff.biz/oneclick
oneClick search code = Part no.

Overview	0
Cabinets	1
Wall mounted cases	2
Accessories for cabinets and wall mounted cases	3
Climate control	4
Desk-top cases	5
Sub racks/ 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

Frame type plug-in units



04807002

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

Product selection kits

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	-	-	-



Downloads and further important information can be found on the Internet under www.schrack.biz

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

Introduction:
Product
features,
product
comparison ... 7.66

Frame type plug-in units PRO

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

ServicePLUS ... 7.74

ServicePLUS
configuration ... 7.75

Frame-type
plug-in units
PRO with hood,
unshielded 7.86

HF plug-in units

Kits 3 U 7.90

ServicePLUS
configuration ... 7.91

Accessories for plug-in
units
see page 7.52



04808008

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/without cooling fins
- For one or several PCBs or one or several connectors
- Various possibilities for combining the individual components



04808009

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



04892005

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 from page 7.74

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

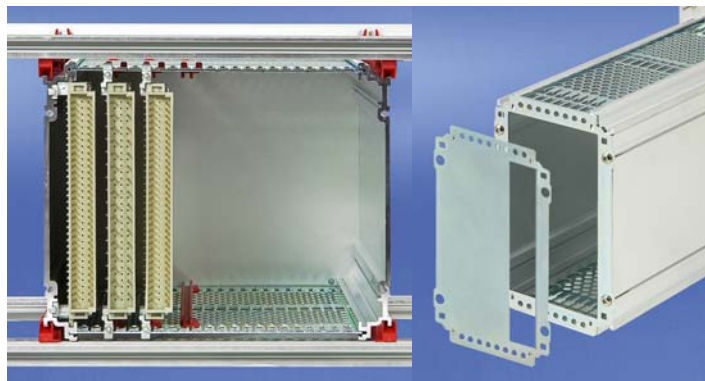
www.schroff.biz/ServicePLUS

30407004

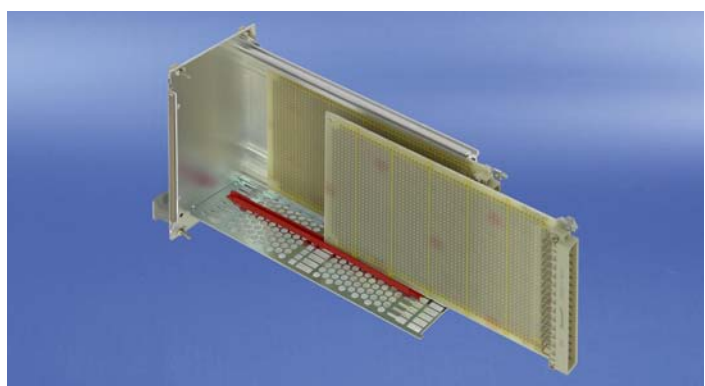
**FRONT PANEL
EXPRESS**

Frame type plug-in units PRO – Introduction

The new generation



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



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



Sliding cover plates

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

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, perforated, perforated for guide rail mounting)

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:

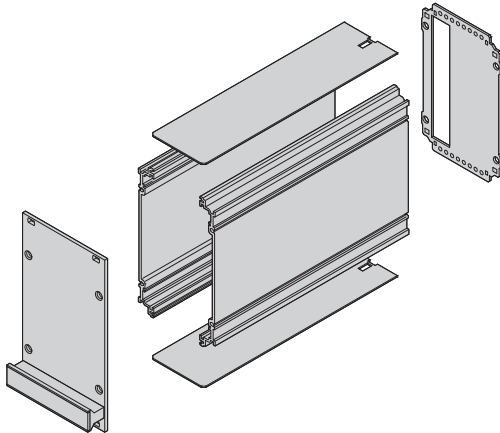
Frame type plug-in units cannot be combined with guide rails for CompactPCI or VME64x applications (width 4 HP)

Frame type plug-in units PRO – Introduction

Comparison:

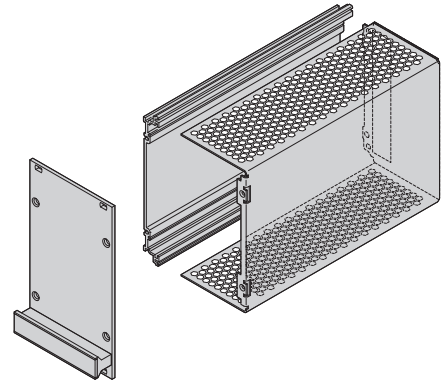
Frame-type plug-in units PRO/Frame-type plug-in units PRO with hood

Frame-type plug-in units PRO



04808125

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)

Frame type plug-in units PRO

Frame type plug-in units PRO, 3 U kits,
front panel shielded (textile gasket)



Illustration shows 12 HP width, side panel depth 167 mm

04811007



ServicePLUS see page 7.74

- 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, PPE, UL 94 V-1
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
3c	2	rear panel fastener
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

Order Information

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

- Description of individual components, guide rails, dimension drawings, other combinations cover plates/rear panels etc. see from page 7.75

Frame type plug-in units PRO

Frame type plug-in units PRO, 6 U kits, front panel shielded (textile gasket)



Illustration shows 12 HP width, side panel depth 167 mm

04811008



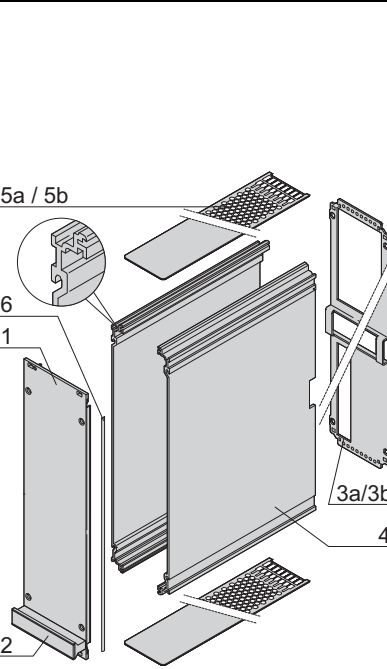
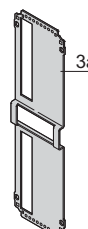
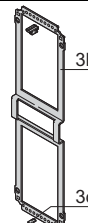
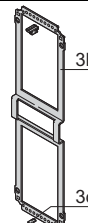
ServicePLUS see page 7.74

- 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, PPE, UL 94 V-1
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
3c	2	rear panel fastener
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

Order Information

	Rear panel	Height	Width	Cover plate without perforation		Cover plate with perforation, for guide rails		
		U	HP	167 mm deep Part no.	227 mm deep Part no.	167 mm deep Part no.	227 mm deep Part no.	
 04808117	3a	6	8	24813-908	24813-958	24813-708	24813-758	
		6	10	24813-910	24813-960	24813-710	24813-760	
		6	12	24813-912	24813-962	24813-712	24813-762	
		6	14	24813-914	24813-964	24813-714	24813-764	
		6	21	24813-921	24813-971	24813-721	24813-771	
		6	28	24813-928	24813-978	24813-728	24813-778	
 04808059	3b	6	42	24813-942	24813-992	24813-742	24813-792	
	 04808059	3c	6	8	—	—	24813-808	24813-858
		6	10	—	—	24813-810	24813-860	
		6	12	—	—	24813-812	24813-862	
		6	14	—	—	24813-814	24813-864	
		6	21	—	—	24813-821	24813-871	
	6	28	—	—	24813-828	24813-878		
	6	42	—	—	24813-842	24813-892		

- Description of individual components, guide rails, dimension drawings, other combinations cover plates/rear panels etc. see from page 7.75

Frame type plug-in units PRO

Frame-type plug-in units PRO, 3 U kits, front panel unshielded



Illustration shows 12 HP width, side panel depth 167 mm

04811009



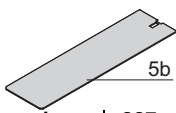
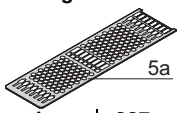
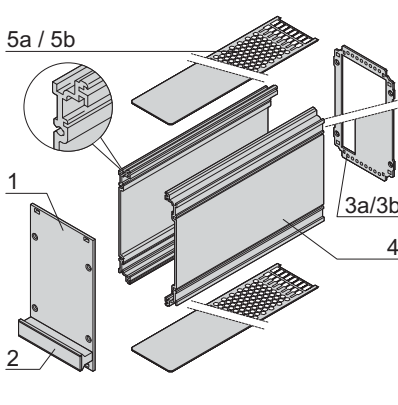
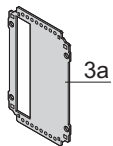
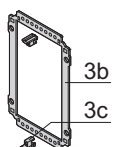
ServicePLUS see page 7.74

- 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, PPE, UL 94 V-1
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
3c	2	rear panel fastener
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

Order Information

	Rear panel	Height	Width	Cover plate without perforation		Cover plate with perforation, for guide rails	
				 5b 04808055		 5a 04808054	
				167 mm deep	227 mm deep	167 mm deep	227 mm deep
				Part no.	Part no.	Part no.	Part no.
	 3a 04808052	U	HP				
		3	8	24812-408	24812-458	24812-208	24812-258
		3	10	24812-410	24812-460	24812-210	24812-260
		3	12	24812-412	24812-462	24812-212	24812-262
		3	14	24812-414	24812-464	24812-214	24812-264
		3	21	24812-421	24812-471	24812-221	24812-271
		3	28	24812-428	24812-478	24812-228	24812-278
		3	42	24812-442	24812-492	24812-242	24812-292
	 3b 3c 04808053	3	8	–	–	24812-308	24812-358
		3	10	–	–	24812-310	24812-360
		3	12	–	–	24812-312	24812-362
		3	14	–	–	24812-314	24812-364
		3	21	–	–	24812-321	24812-371
		3	28	–	–	24812-328	24812-378
		3	42	–	–	24812-342	24812-392

- Description of individual components, guide rails, dimension drawings, other combinations cover plates/rear panels etc. see from page 7.75

Frame type plug-in units PRO

Frame type plug-in units PRO, 6 U kits, front panel unshielded



Illustration shows 12 HP width, side panel depth 167 mm

04811010



ServicePLUS see page 7.74

- 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, PPE, UL 94 V-1
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
3c	2	rear panel fastener
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

Order Information

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

- Description of individual components, guide rails, dimension drawings, other combinations cover plates/rear panels etc. see from page 7.75

Frame type plug-in units PRO

Frame type plug-in unit PRO kits, side panel with cooling fins, front panel shielded



Illustration shows 12 HP width, side panel depth 167 mm

04812018



ServicePLUS see page 7.74

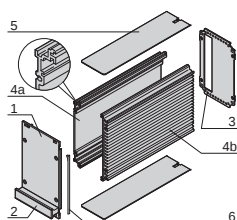
- Right side panel with cooling fins to improve heat dissipation; left side panel extrusion with groove to insert a PCB (board position in accordance with standard in left side panel only)
- 2 board depths: 160 mm and 220 mm
- Cover plate without perforation
- With cut-out for one connector in accordance with EN 60603-2, DIN 41612
- With 10 W installed heat dissipation loss the internal temperature falls by approx. 5°C

NEW

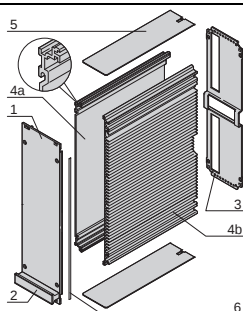
Delivery comprises (Kit)

Item	Qty	Description
1	1	Front panel, U profile anodised, rear conductive, alignment pin pressed-in
2	1	Handle, grey, PPE, UL 94 V-1
3	1	Rear panel, St, zinc-plated, 1.5 mm, with cut-out for one connector, incl. PCB fixing (slot)
4a	2	Side panel, left, Al extrusion, clear passivated, with groove for one PCB
4b	2	Side panel, right, Al extrusion, clear passivated, with cooling fins
5	2	Cover plate, St, zinc-plated, 1.0 mm
6	1	EMC sealing (textile)
7	1	Assembly kit

Order Information



04812058



04812060

Height U	Width HP	Depth = 167 mm Part no.	Depth = 227 mm Part no.
3	14	24813-164	—
3	21	24813-171	—
6	14	24813-664	24813-614
6	21	24813-671	24813-621

Note

- Description of individual components, guide rails, dimension drawings, other combinations cover plates/rear panels etc. see from page 7.75

Frame type plug-in units PRO

Frame type plug-in units PRO kits, side panel with cooling fins, front panel unshielded



Illustration shows 12 HP width, side panel depth 167 mm

04812008

- Right side panel with cooling fins to improve heat dissipation; left side panel extrusion with groove for insertion of a PCB (board position in accordance with standard in left side panel only)
- 2 board depths: 160 mm and 220 mm
- Cover plate without perforation
- With cut-out for one connector in accordance with EN 60603-2, DIN 41612
- With 10 W installed heat dissipation loss the internal temperature falls by approx. 5°C

NEW

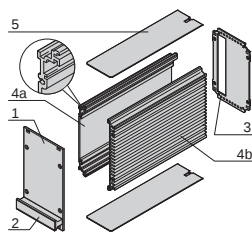
Delivery comprises (Kit)

Item	Qty	Description
1	1	Front panel, Al, 2.5 mm, anodised, cut edges plain
2	1	Handle, grey, PPE, UL 94 V-1
3	1	Rear panel, St, zinc-plated, 1.5 mm, with cut-out for one connector, incl. PCB fixing (slot 1)
4a	2	Side panel, left, Al extrusion, clear passivated, with groove for one PCB
4b	2	Side panel, right, Al extrusion, clear passivated, with cooling fins
5	2	Cover plate, St, zinc-plated, 1.0 mm
6	1	Assembly kit

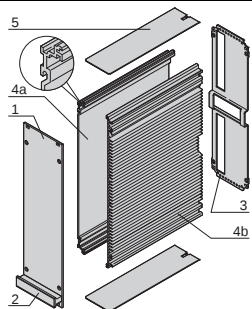


ServicePLUS see page 7.74

Order Information



04812059



04812061

Height U	Width HP	Depth = 167 mm Part no.	Depth = 227 mm Part no.
3	12	24812-162	—
3	14	24812-164	—
3	21	24812-171	—
6	12	24812-662	24812-612
6	14	24812-664	24812-614
6	21	24812-671	24812-621

Note

- Description of individual components, guide rails, dimension drawings, other combinations cover plates/rear panels etc. see from page 7.75

Frame type plug-in units PRO ServicePLUS



configuration

Components can be varied and combined freely

Simple. Fast. For the product you want.

- Configuration tables for frame type plug-in units PRO from page 7.75
- Configuration tables for HF plug-in units from page 7.90
- Online configuration: www.schroff.co.uk/configuration



assembly

Fitting of all mechanical, electrical and electronic components by our specialists

Assembled by professionals. Double benefit!

- Professional and reliable
- Packaged ready for despatch



modification

Custom drillings, cut-outs and special colours for off-the-shelf products

Small changes. Large impact.

- Holes, cut-outs, drill holes, individual colour and printing



solution

Integration and custom developments

Simple. Fast. From one source.

- Special sizes, custom solutions
- Heat dissipation concepts
- EMC solutions



express

Delivery time to customer's request

When fast has to be faster.

- Delivery time for front panels from 2 working days; for frame-type plug-in units from 5 working days

FRONT PANEL
EXPRESS



academy

Knowledge transfer and partnership

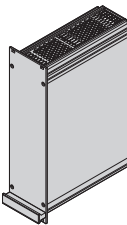
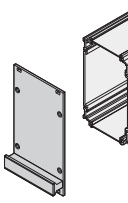
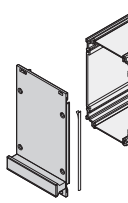
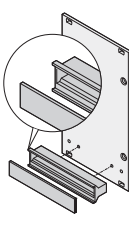
Knowledge. Sharing. Partnerships.

- Downloadable CAD drawings, test reports, user manual

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	Textile EMC gasket	Grey	Black	
 04808124  04808060  04808061  04808062  04808063	Al, 2.5 mm, front anodised, rear iridescent green chromated, cut edges blank	Al extrusion, alignment pin pressed-in, front anodised, rear conductive	always fixed laterally on the front panel, in the groove of the profile, textile gasket, core: foam, sleeve: textile cladding with CuNi coating, UL 94 V-0, temperature range -40 ... 70 °C		handle: PPE, UL 94 V-1; 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) 7.78	
	1 piece (SPQ 5) ¹⁾	1 piece (SPQ 5) ¹⁾	PU 10 pieces	PU 100 pieces	1 piece (SPQ 5) ¹⁾	1 piece (SPQ 5) ¹⁾
Width	3 U Height					
HP	PCB depth 160 mm					
8	34812-108	34813-108	21101-853	21101-854	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	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
Width	6 U Height					
HP	PCB depth 160 mm					
8	34812-608	34813-608	21101-855	21101-856	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	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	7.82	7.82			7.82	7.82

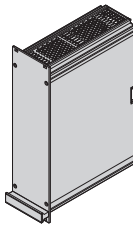
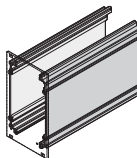
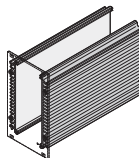
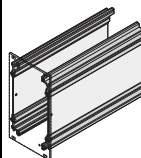
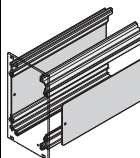
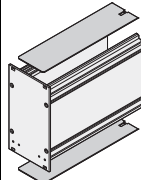
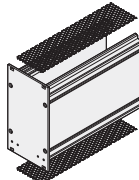
1) SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple

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

Frame type plug-in units PRO ServicePLUS

Individual
components

Side panels, cover plates, guide rails

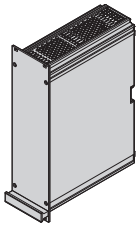
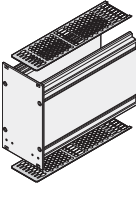
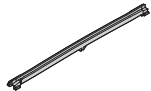
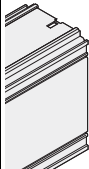
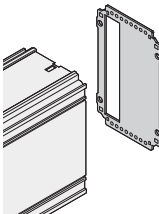
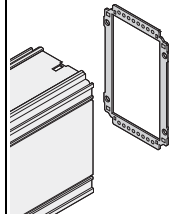
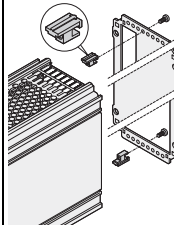
 04808124	Extruded side panel		Extruded side panel with cooling fins		Side panel, corner profile and side plate		Cover plate	
	Left	Right	Left	Right	Corner profile	Side plate	Without perforation	With perforation
	 04808065		 04811050		 04808066	 04808067	 04808068	 04808070
	Al extrusion, colourless passivated, with groove for one PCB; 3 U symmetrical; 6 U asymmetrical, right and left side panel different) Side panels with and without cooling fins can be combined		Al extrusion, colourless passivated, with groove for one PCB; 3 U symmetrical; 6 U asymmetrical Side panels with and without cooling fins can be combined		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
Supplied quantity for assembly of 5 frame type plug-in units	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 5) ¹⁾	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾
Width	3 U Height							
HP	PCB depth 160 mm							
8	34812-100 1 piece (SPQ 10) ¹⁾	34812-100 1 piece (SPQ 10) ¹⁾	34812-200	34812-200	34812-102	34812-103	34812-408	34812-958
10							34812-410	34812-960
12							34812-412	34812-962
14							34812-414	34812-964
21							34812-421	34812-971
28							34812-428	34812-978
42							34812-442	34812-992
PCB depth 220 mm								
8	34813-100 1 piece (SPQ 10) ¹⁾	34813-100 1 piece (SPQ 10) ¹⁾	34813-200	34813-200	34813-102	34813-103	34813-408	34813-958
10							34813-410	34813-960
12							34813-412	34813-962
14							34813-414	34813-964
21							34813-421	34813-971
28							34813-428	34813-978
42							34813-442	34813-992
Width	6 U Height							
HP	PCB depth 160 mm							
8	34812-600 1 piece (SPQ 5) ¹⁾	34812-601 1 piece (SPQ 5) ¹⁾	–	34812-701	34812-102	34812-603	34812-408	34812-958
10							34812-410	34812-960
12							34812-412	34812-962
14							34812-414	34812-964
21							34812-421	34812-971
28							34812-428	34812-978
42							34812-442	34812-992
PCB depth 220 mm								
8	34813-600 1 piece (SPQ 5) ¹⁾	34813-601 1 piece (SPQ 5) ¹⁾	–	34813-701	34813-102	34813-603	34813-408	34813-958
10							34813-410	34813-960
12							34813-412	34813-962
14							34813-414	34813-964
21							34813-421	34813-971
28							34813-428	34813-978
42							34813-442	34813-992
Dimensions see page	7.80	7.80	7.80	7.80	7.81	7.81	7.84	7.84

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

Frame type plug-in units PRO ServicePLUS

Individual components

Rear panels, assembly material

 04808124	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	
Supplied quantity for assembly of 5 frame type plug-in units	 04808069	 04808074	 04808073	 04808071	 04808072	 04808123	for mounting five 3 U or 6 U frame type plug-in units from ServicePLUS components: front panel, rear panel, side panel, cover plate and handle, description see page 7.78
	St, 1.0 mm, zinc-plated; air flow rate in perforated area approx. 60 %; please order snap-in guide rails separately	PBT, UL 94 V-0, red, groove width 2 mm, PCB fixing required from slot 2, see page 7.79	St, 1.5 mm, zinc-plated	St, 1.5 mm, zinc-plated	St, 1.5 mm, zinc-plated, for EN 60603 (DIN 41612) connectors, types: B, C, D, F, H, Q, R, S	10 rear panel fasteners, Zn die-cast; 10 fixing screws; not suitable for cover plate with perforation	
	1 piece (SPQ 10) ¹⁾	PU 10 pieces	1 piece (SPQ 5) ¹⁾	1 piece (SPQ 5) ¹⁾	1 piece (SPQ 5) ¹⁾	PU 1 kit	PU 1 kit
Width	3 U Height						
HP	PCB depth 160 mm						
8	34812-908	24812-101	34813-208	34812-208	34812-308	24812-401	24812-100
10	34812-910		34813-210	34812-210	34812-310		
12	34812-912		34813-212	34812-212	34812-312		
14	34812-914		34813-214	34812-214	34812-314		
21	34812-921		34813-221	34812-221	34812-321		
28	34812-928		34813-228	34812-228	34812-328		
42	34812-942		34813-242	34812-242	34812-342		
	PCB depth 220 mm						
8	34813-908	24812-101	34813-208	34812-208	34812-308	24812-401	24812-100
10	34813-910		34813-210	34812-210	34812-310		
12	34813-912		34813-212	34812-212	34812-312		
14	34813-914		34813-214	34812-214	34812-314		
21	34813-921		34813-221	34812-221	34812-321		
28	34813-928		34813-228	34812-228	34812-328		
42	34813-942		34813-242	34812-242	34812-342		
Width	6 U Height						
HP	PCB depth 160 mm						
8	34812-908	24812-101	34813-708	34812-708	34812-808	24812-401	24812-100
10	34812-910		34813-710	34812-710	34812-810		
12	34812-912		34813-712	34812-712	34812-812		
14	34812-914		34813-714	34812-714	34812-814		
21	34812-921		34813-721	34812-721	34812-821		
28	34812-928		34813-728	34812-728	34812-828		
42	34812-942		34813-742	34812-742	34812-842		
	PCB depth 220 mm						
8	34813-908	24812-101	34813-708	34812-708	34812-808	24812-401	24812-100
10	34813-910		34813-710	34812-710	34812-810		
12	34813-912		34813-712	34812-712	34812-812		
14	34813-914		34813-714	34812-714	34812-814		
21	34813-921		34813-721	34812-721	34812-821		
28	34813-928		34813-728	34812-728	34812-828		
42	34813-942		34813-742	34812-742	34812-842		
Dimensions see page	7.84	7.84	7.83	7.83	7.83		

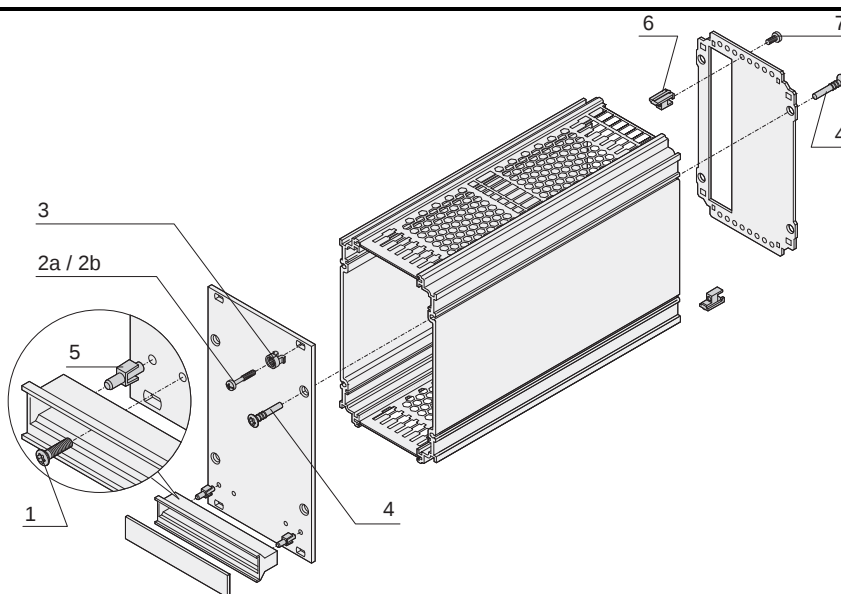
1) SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple

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

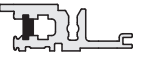
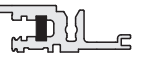
Frame type plug-in units PRO ServicePLUS

Individual
components

Fixing material (100 pieces)



04808085

Fixing parts	Item		Required quantity per plug-in unit	Description	Qty/PU	Part no.
Fixing parts for mounting the module in subrack or case						
Torx panhead screw, M2.5 x 10, St, zinc-plated, self-forming thread	1	 az2a45940	2	Assembly of handle on front panel	100	24560-179
Pozidrive/slotted collar screw M2.5 x 11, St, nickel-plated	2a	 az2a46586	4 / 6*	 06107050	100	21100-748
Pozidrive/slotted collar screw M2.5 x 12.3, St, nickel-plated	2b	 az2a46586	4 / 6*	 06107051	100	21101-101
Plastic sleeves for form hole 5.9 x 3.3, PA, UL 94 V-2, grey	3	 az2a45933	4 / 6*	Is needed to fix collar screws	100	21100-464
Fixing parts for mounting the module						
Torx raised countersunk panhead screw 3 x 20, St, nickel-plated	4	 06708052	8	Assembly of front panel and rear panel on extruded side panel/rear extrusion of side panel	100	24812-501
Fixing clip for trapeziform plastic handle PPE UL 94 V 0, black	5	 04608090	2	Alignment aid for handle on front panel	100	21101-239
Rear panel fastener Zn die-cast	6	 04808128	2	To stabilise rear panel with wide frame-type plug-in units	100	24812-402
Torx panhead screw M2.5 x 10, St, nickel-plated	7	 az2a45940	2	To fix rear panel fastener or board fixing	100	24560-148
Board support (slot 1) Zn die-cast		 04808126	2	Board support (slot 1) see page 7.79	50 pairs	24812-202
Board support (from slot 2) Zn die-cast		 04808127	2	Board support (from slot 2) see page 7.79	50 pairs	24812-302
Torx panhead screw M2.5 x 6, St, nickel-plated		 az2a45940	2	Is needed for board fixing without connector see page 7.79	100	24560-178

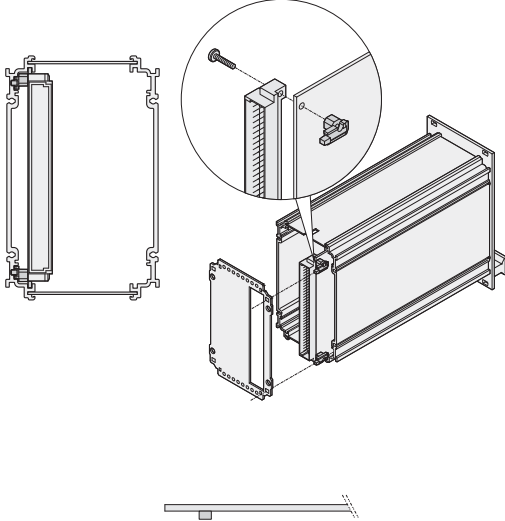
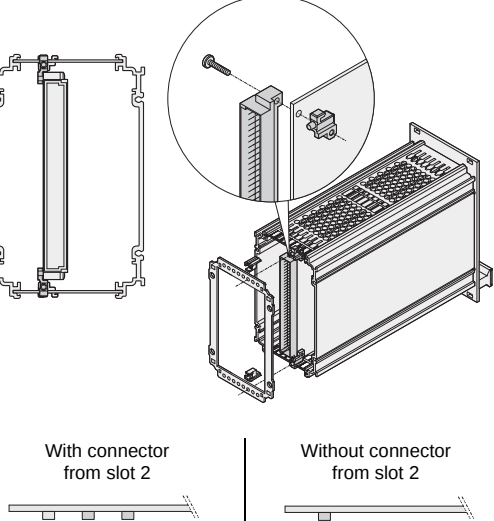
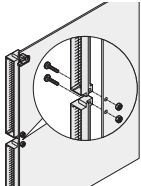
* on 42 HP EMC shielded frame type plug-in units

■ Further collar screws and sleeves see page 7.107

Frame type plug-in units PRO ServicePLUS

Individual
components

Board fixing

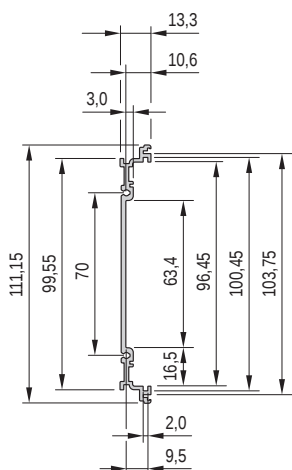
	Board fixing slot 1  04808118 04808109 04808129 Zn die-cast, Torx panhead screw M2.5 x 10; PCB is pushed into the guiding groove of the left side panel/ side panel rear angle, is fixed with rear panel	Board fixing from slot 2  04808119 04808110 bga42785 kaa46417 Zn die-cast, Torx panhead screw M2.5 x 10; PCB is pushed into guide rail, is fixed with rear panel	
Height	PU 5 pair	PU 5 pair	
3 U	24812-201	24812-301	
6 U	24812-201	24812-301	
Assembly kits		With connector from slot 2	Without connector from slot 2
Torx panhead screw, M2.5 x 6, St, nickel-plated, PU 100 pieces; is needed for board fixing without connector	 24560-178 aza45940	—	24560-178
Connector mounting on PCB, for 6 U frame type plug-in units (centre) Torx panhead screw M2.5 x 10, nut M2.5; PU 10 pieces (screw + nut)	 24812-600 04808120	24812-600	

Frame type plug-in units PRO

Dimensions

Side panel without cooling fins

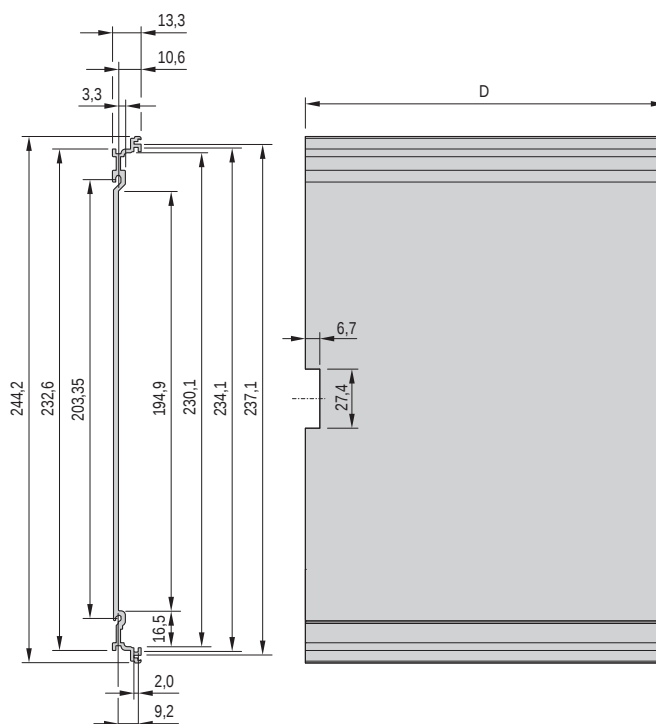
3 U



Depth = 167/227 mm

04808101

6 U

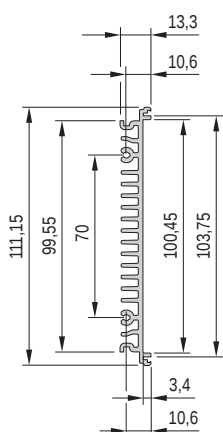


04808102

Dimensions

Side panel with cooling fins

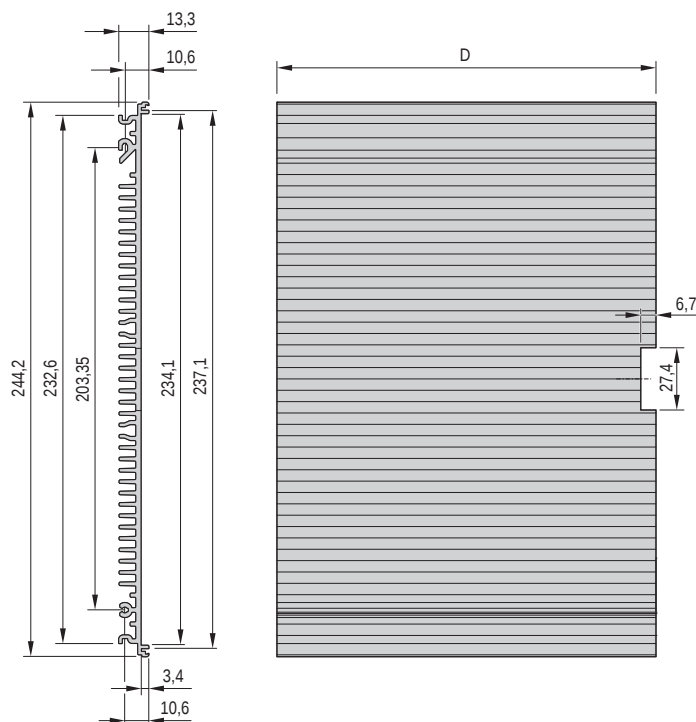
3 U



Depth = 167/227 mm

04811051

6 U

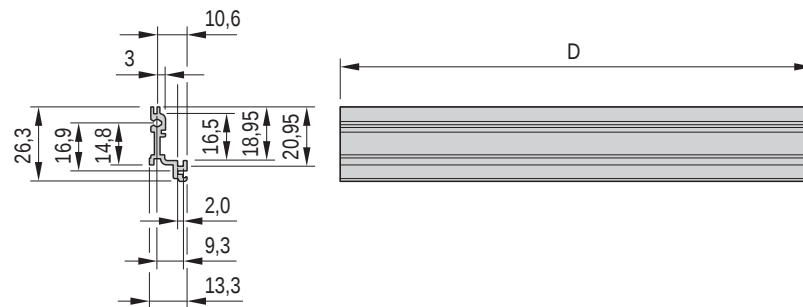


04811052

Frame type plug-in units PRO

Dimensions

Side panel rear angle

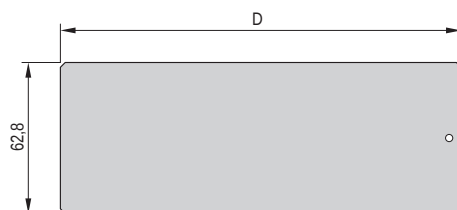


Depth = 167/227 mm

04808103

Dimensions

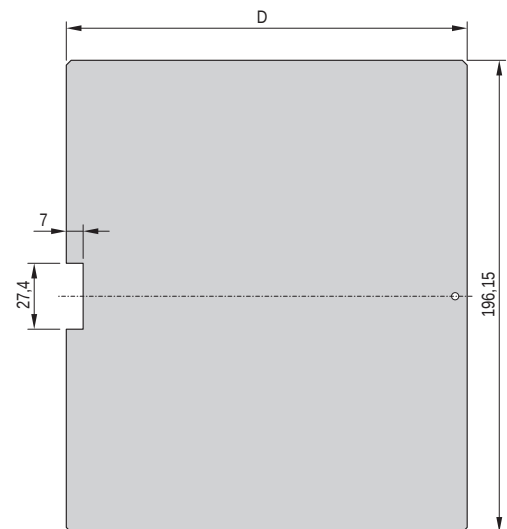
Side plate



3 U for side panel rear angle

04808100

6



6 U for side panel rear angle

04808099

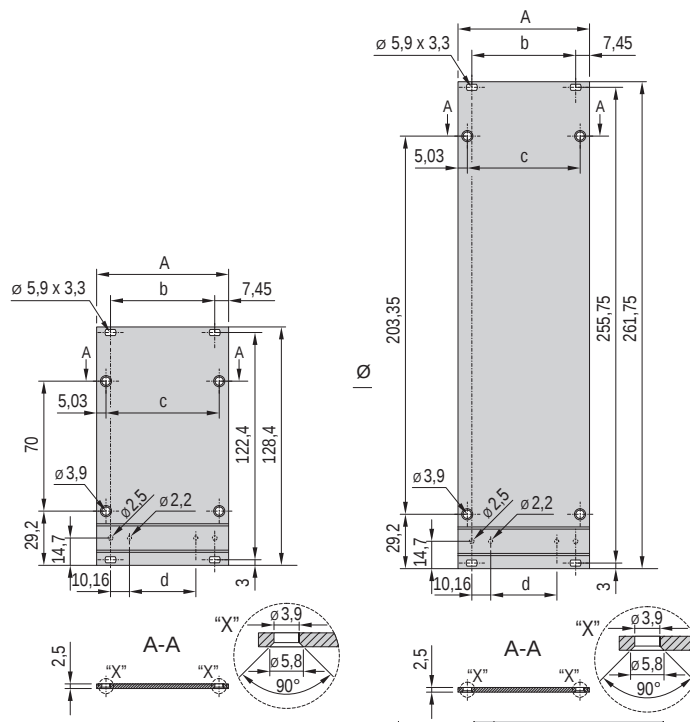
Frame type plug-in units PRO

Dimensions Front panels

Unshielded

3 U

6 U



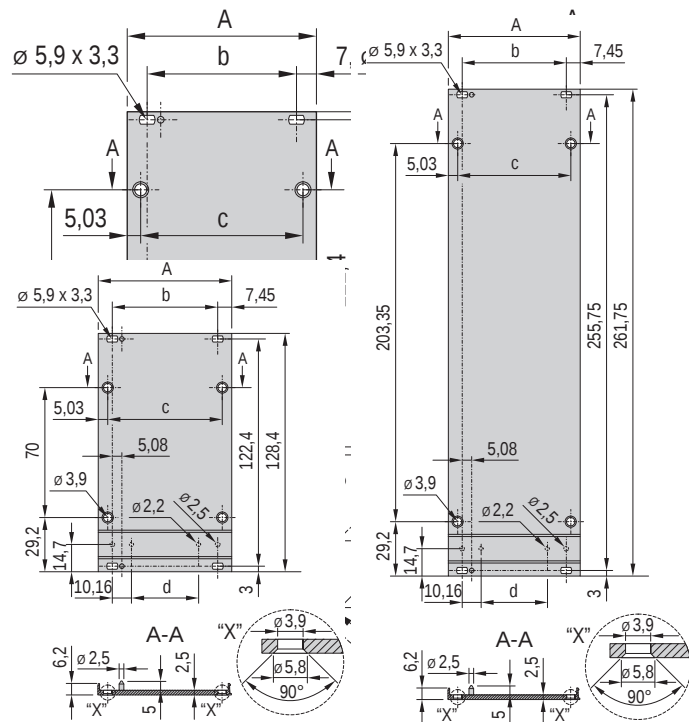
04808086

04808087

Shieldable, for EMC textile gasket

3 U

6 U



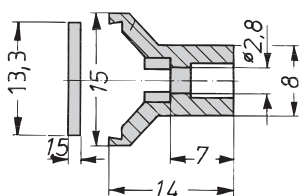
04808088

04808089

Dimensions table

	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

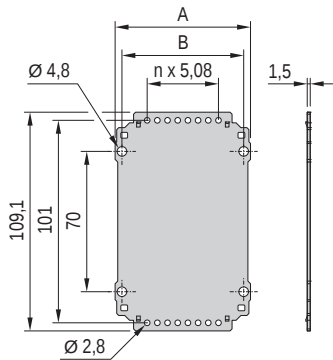
Width	Width
HP	mm
8 HP	39.2
10 HP	49.4
12 HP	59.6
14 HP	69.7
21 HP	105.2
28 HP	140.8
42 HP	212.0

Frame type plug-in units PRO

Dimensions

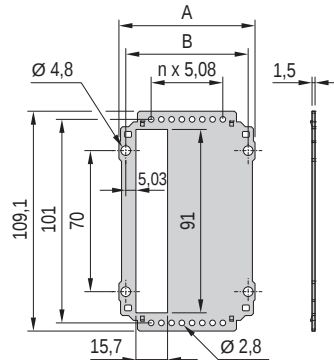
Rear panel 3 U

Without cut-out



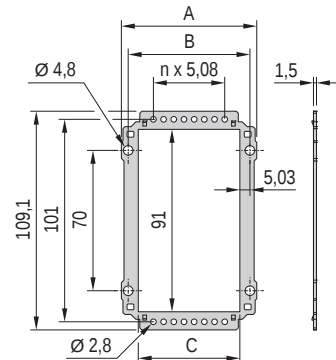
04808092

For one connector



04808091

For multiple connectors



04808090

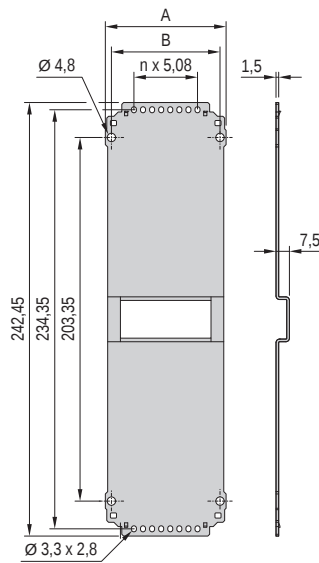
Dimensions table

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

Dimensions

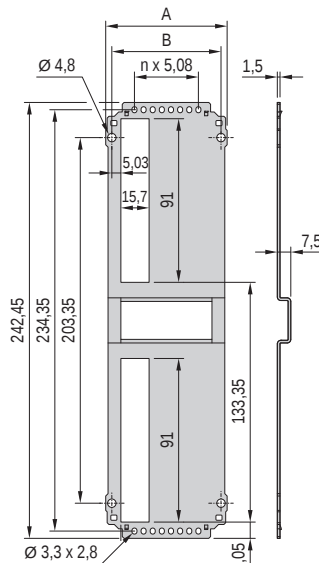
Rear panel 6 U

Without cut-out



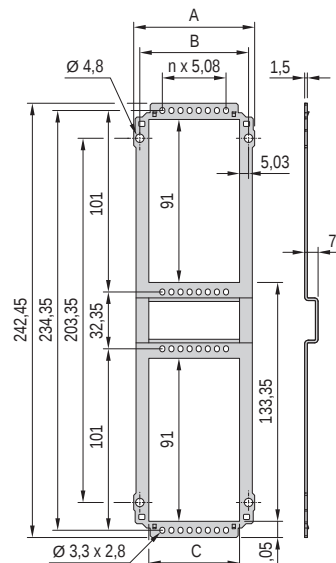
04808095

For one connector



04808094

For multiple connectors



04808093

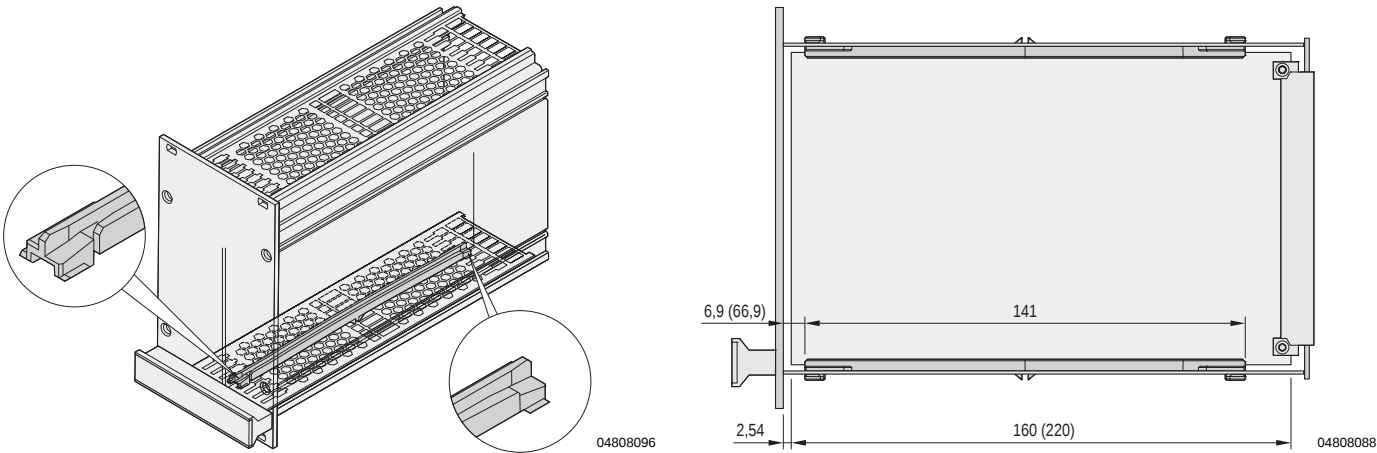
Dimensions table

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

Frame type plug-in units PRO

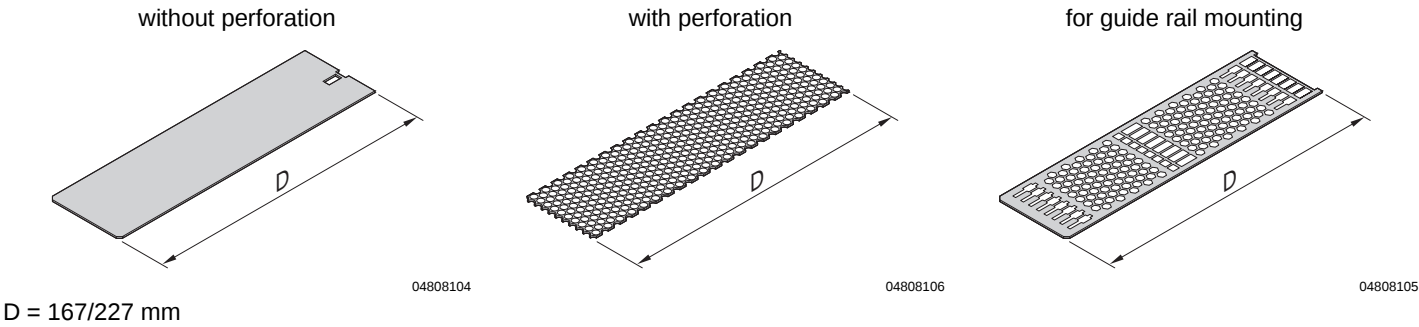
Dimensions

Guide rail



Dimensions

Cover plates

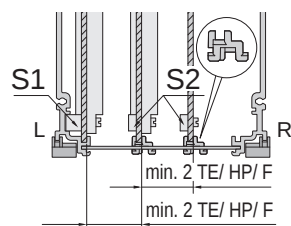


Frame type plug-in units PRO

Dimensions

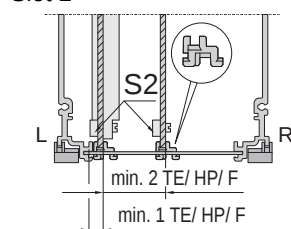
Mounting instructions for guide rails in frame type plug-in units

Slot 1 + slot 2



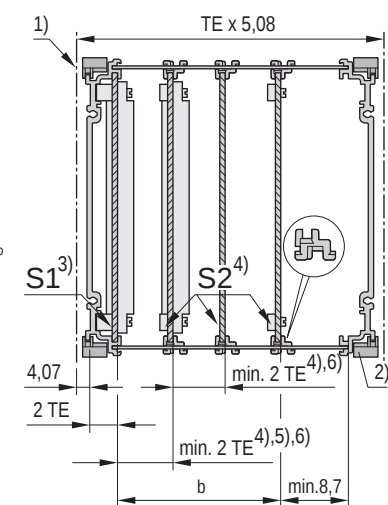
04809050

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 plug-in unit	b	Max. number of PCBs mountable	
		slot 1	from slot 2
HP	mm		
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⁾

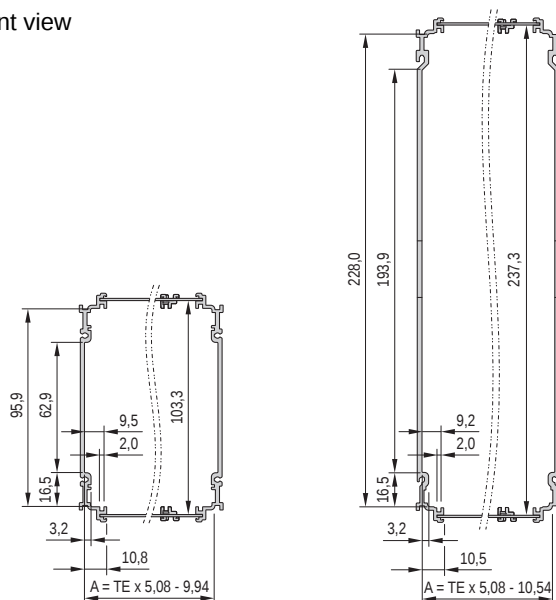
TE = HP = F

- 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	Width	A
U	HP	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)



- 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, PPE, UL 94 V-1
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)

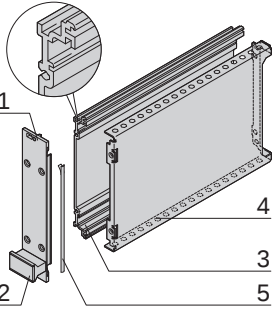
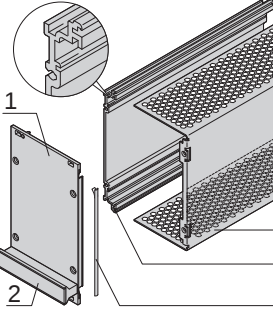
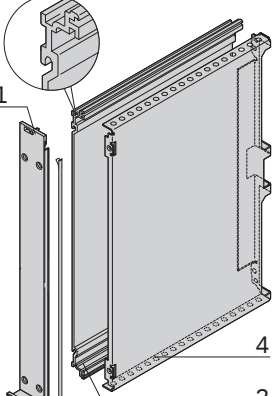
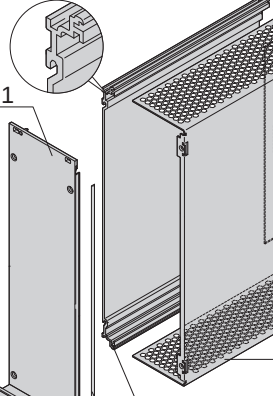
Illustration shows 12 HP width, side panel depth 167 mm

04808007



ServicePLUS see page 7.74

Order Information

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

■ Dimension drawings see from page 7.88

Frame type plug-in units PRO with hood

Plug-in units PRO with hood, 3/6 U, front panel unshielded



Illustration shows 12 HP width, side panel depth 167 mm

04808002

- 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

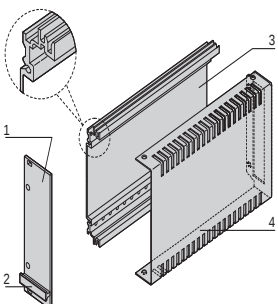
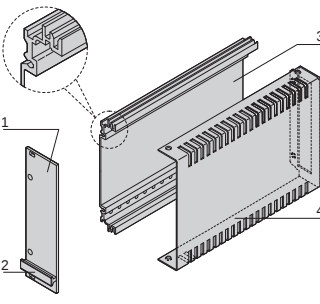
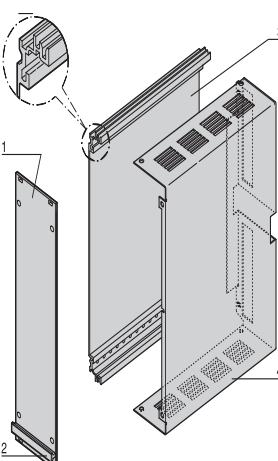
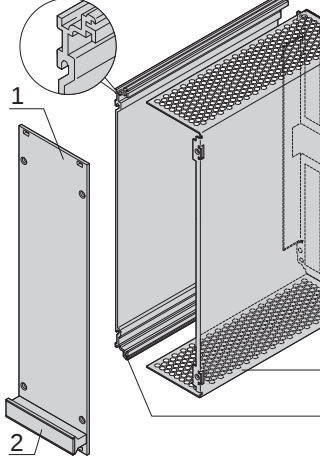
Delivery comprises (kit)

Item	Qty	Description
1	1	Front panel, Al, 2.5 mm, anodised, cut edges plain
2	1	Handle, grey, PPE, UL 94 V-1
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)



ServicePLUS see page 7.74

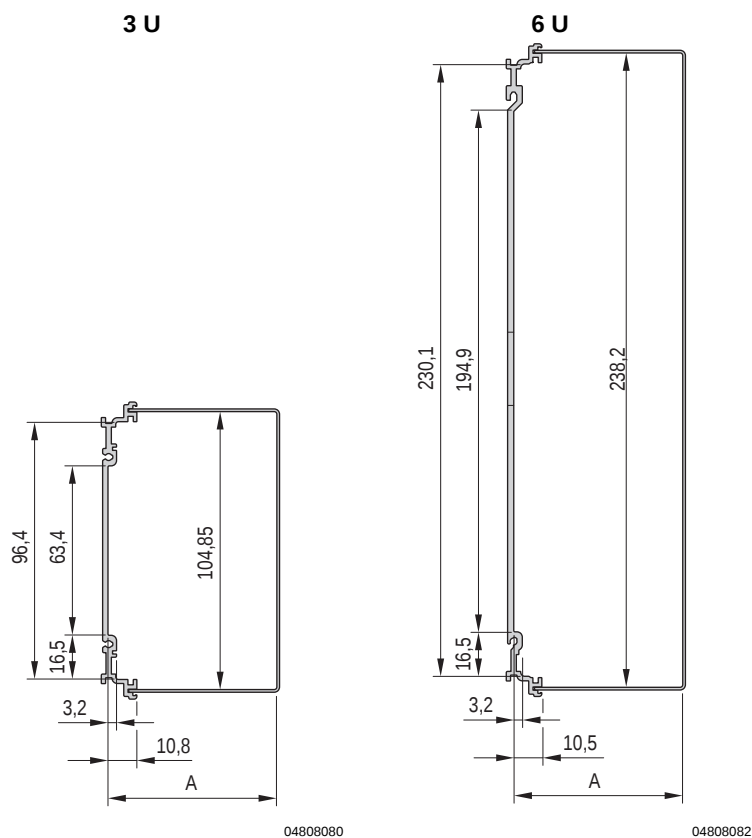
Order Information

	5 HP	6 ... 14 HP		Height U	Width HP	Depth = 167 mm Part no.	Depth = 227 mm Part no.
 04808077		 04808115		3	5	24812-005	24812-055
				3	6	24812-006	24812-056
				3	7	24812-007	24812-057
				3	10	24812-010	24812-060
				3	12	24812-012	24812-062
				3	14	24812-014	24812-064
 04808078		 04808116		6	5	24812-505	24812-555
				6	6	24812-506	24812-556
				6	7	24812-507	24812-557
				6	10	24812-510	24812-560
				6	12	24812-512	24812-562
				6	14	24812-514	24812-564

- Dimension drawings see from page 7.88

Frame type plug-in units PRO with hood

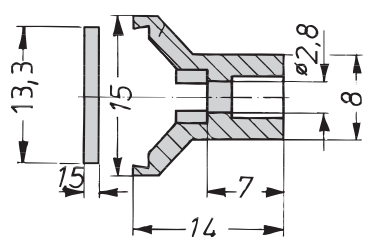
Dimensions Cross-section frame-type plug-in units PRO with hood 3 U/6 U



Dimensions table

Height	Width	A
U	HP	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

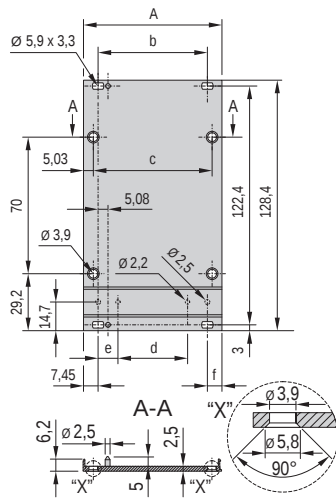
Dimensions table

Width	Width
HP	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

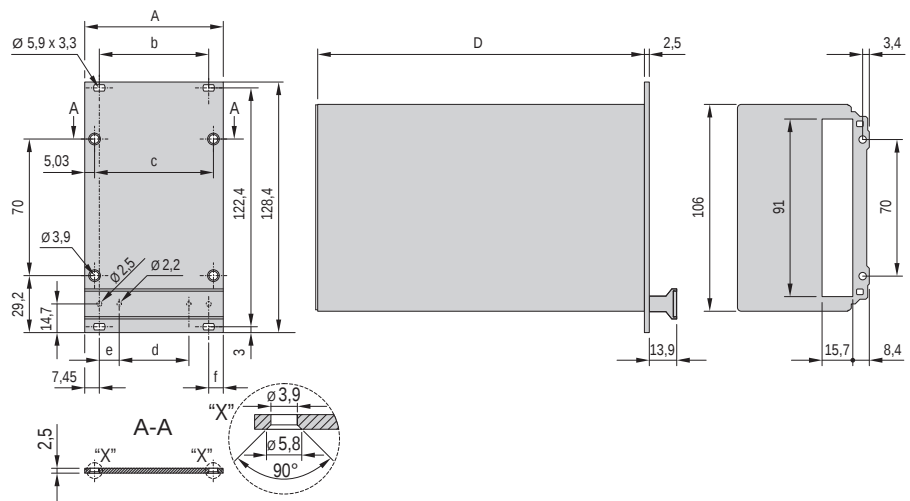
Dimensions 3/6 U frame-type plug-in units PRO with hood

3 U Front panel shieldable



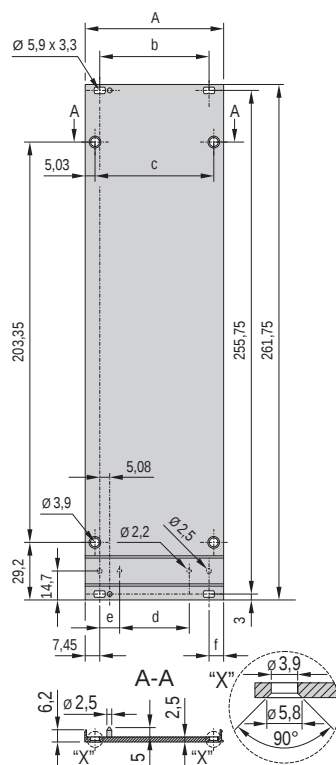
04808052

Front panel unshielded



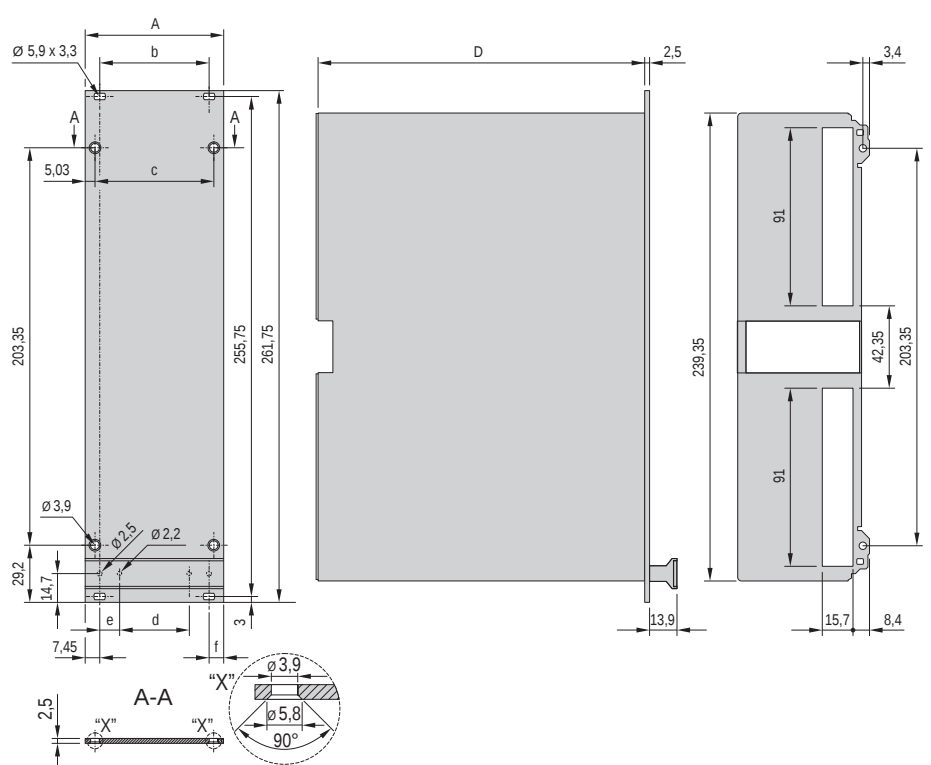
04808111

6 U Front panel shieldable



04809053

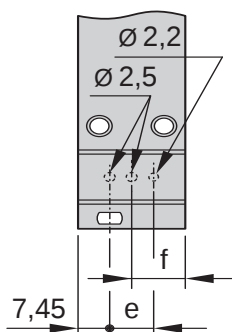
Front panel unshielded



04808112

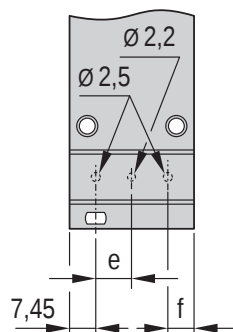
Front panel

5 HP



04809067

6 + 7 HP



04809066

Dimensions table

Width	A	b	c	d	e	f	Depth D
HP	mm	mm	mm	mm	mm	mm	mm
5	25.06	-	15.00	-	10.16	12.53	167 mm/ 227 mm
6	30.14	-	20.08	-	10.16	7.45	
7	35.22	-	25.16	-	10.16	7.45	
10	50.46	35.56	40.40	15.24	10.16	7.45	
12	60.62	45.72	50.56	25.40	10.16	7.45	
14	70.78	55.88	60.72	35.56	10.16	7.45	

HF frame type plug-in units

HF frame type plug-in units, 3 U kits, front panel shielded



04892005



ServicePLUS see page 7.74

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

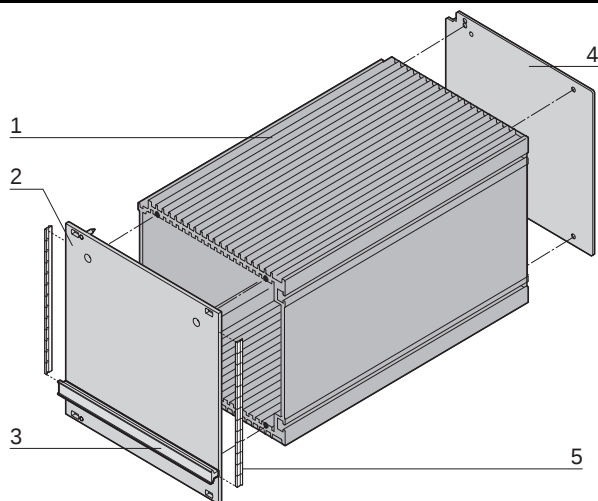
Delivery comprises (kit)

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	Plastic handle, trapeziform, PPE, grey, 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 U	Width HP	Depth = 167 mm Part no.	Depth = 227 mm Part no.
3	7	20809-529	20809-536
3	10	20809-530	20809-537
3	12	20809-531	20809-538
3	14	20809-532	20809-539
3	21	20809-533	20809-540
3	28	20809-534	20809-541

Note

- Dimension drawings see from page 7.94



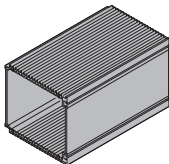
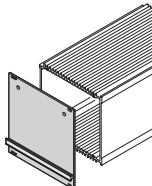
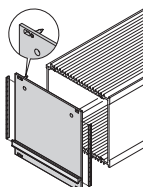
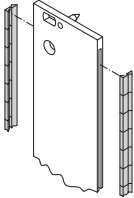
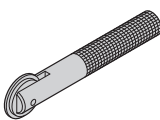
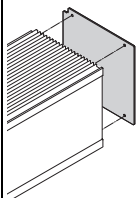
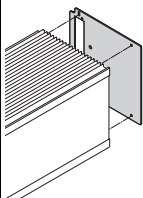
For further information www.schroff.biz/oneclick
oneClick search code = Part no.

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			Rear panel	
		 KAA45832 Al extrusion, black anodised, cut edges plain	 KAA45831 Al, 2.5 mm, front anodised, rear iridescent green chromated; static handle, grey, PPE, UL 94 V-1	 04807074 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	 bga45760 inserted laterally into the grooves of the front panel	 aza45937 to mount the EMC gasket (stainless steel)	 04807075 Al, 1.5 mm, etched	 KAA45834 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) ¹⁾	1 piece (SPQ 5) ¹⁾	1 piece (SPQ 5) ¹⁾	PU 100 pieces	1 piece	1 piece (SPQ 5) ¹⁾	1 piece (SPQ 5) ¹⁾
		PCB depth 160 mm						
3	7	30809-667	20838-001	20838-093	21101-705	24560-270	30809-635	30809-641
	10	30809-677	20838-002	20838-094			30809-636	30809-642
	12	30809-675	20838-003	20838-095			30809-637	30809-643
	14	30809-673	20838-004	20838-096			30809-638	30809-644
	21	30809-671	20838-005	20838-097			30809-639	30809-645
	28	30809-669	20838-006	20838-098			30809-640	30809-646
		PCB depth 220 mm						
3	7	30809-668	20838-001	20838-093	21101-705	24560-270	30809-635	30809-641
	10	30809-678	20838-002	20838-094			30809-636	30809-642
	12	30809-676	20838-003	20838-095			30809-637	30809-643
	14	30809-674	20838-004	20838-096			30809-638	30809-644
	21	30809-672	20838-005	20838-097			30809-639	30809-645
	28	30809-670	20838-006	20838-098			30809-640	30809-646
		Depth 1000 mm (without thread for front panel and rear panel)						
3	7	30809-679	—	—	—	—	—	—
	10	30809-698						
	12	30809-699						
	14	30809-680						
	21	30809-681						
	28	30809-682						
Dimensions see page		7.94	7.95				7.94	

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



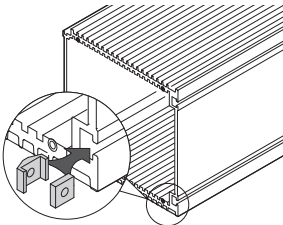
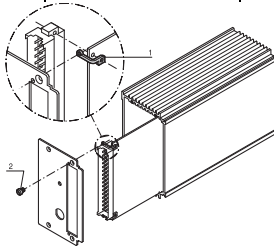
For further information www.schroff.biz/oneclick
oneClick search code = Part no.

HF frame type plug-in units

Individual components

Slide nuts, fixing for PCBs, mounting kit

Order Information

		Slide nut		Fixing for PCBs			Fixing material for one HF frame type plug-in unit
		M 2.5	M 3	Individual components top bottom		Complete assembly kit	
		 04807076 width across flats (WAF) 7, for insertion into HF body tube, top and bottom, provides lateral fixing (on right)		 KAA45843 bracket (stainless steel), 1.5 mm; please order retention screws separately		bracket top and bottom (stainless steel), 1.5 mm; incl. two cheesehead screws M2.5 x 4	for complete assembly of a 3 U HF frame type plug-in unit: front panel, rear panel and handle, description see page 7.93
Height U	Width HP	PU 100 pieces	PU 100 pieces	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾	PU 1 kit	PU 1 kit
3	7 10 12 14 21 28	21100-112	21100-289	30809-701	30809-700	21101-937	21100-105
Accessories							
Cheesehead screw M2.5 x 4, St, nickel-plated, PU 100 pieces		—	—	21100-431	21100-431	—	—

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



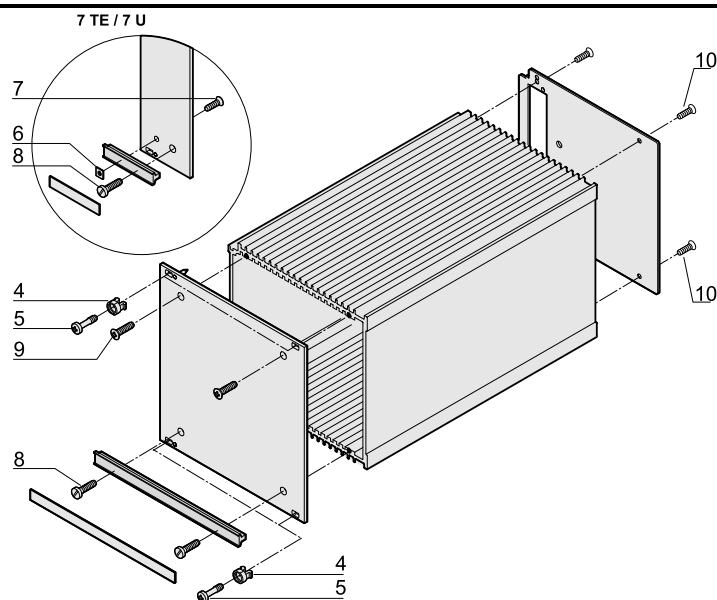
For further information www.schroff.biz/oneclick
oneClick search code = Part no.

HF frame type plug-in units

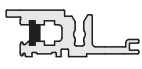
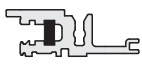
Individual
components

Fixing material (100 pieces)

Order Information



04802054

Description	Item		Required quantity per plug-in unit	Description	Qty/PU	Part no.	
Fixing parts for mounting the module in subrack or case							
Plastic sleeve for form hole 5.9 x 3.3, PA, UL 94 V-2, grey	4	 aza45933	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				
Pozidrive/slotted collar screw M2.5 × 11, St, nickel-plated	5	 aza46586	2 at 7 HP	 06107050	Front panel is fitted to horizontal rail with threaded insert pushed in to front	100	21100-748
			4 at > 7 HP				
Pozidrive/slotted collar screw M2.5 × 12.3, St, nickel-plated	5	 aza46586	2 at 7 HP	 06107051	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 DIN 562, M2.5,St, nickel-plated	6	 06705050	1 at 7 HP		To mount handle on front panel	100	21100-359
Pozidrive countersunk screw M2.5 × 12, St, nickel-plated	7	 aza45177	1 at 7 HP		To mount handle on front panel	100	21100-507
Slotted cheesehead screw M2.5 × 16, St, nickel-plated	8	 aza45467	1 at 7 HP		To mount handle and front panel on HF body tube	100	21100-150
			2 at > 7 HP				
Raised Pozidrive countersunk panhead screw M2.5 × 8, St, nickel-plated	9	 06702056	2		To mount front panel on HF body tube	100	21100-429
Pozidrive countersunk screw M2.5 × 6, St, nickel-plated	10	 06702056	4		To mount rear panel on HF body tube	100	21100-515

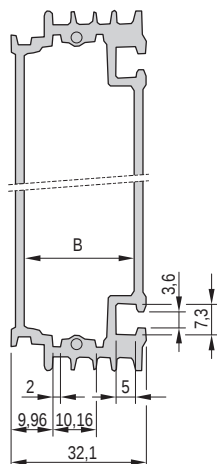
Note

■ Further collar screws and sleeves see page 7.107

HF frame type plug-in units

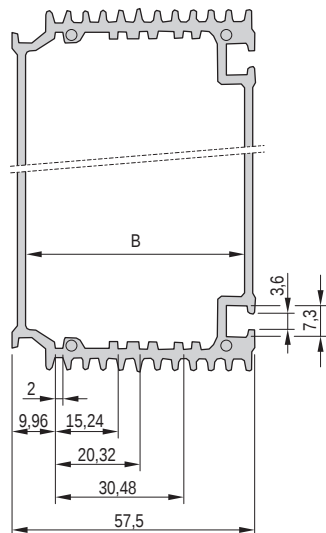
Dimensions HF body tube

7 HP



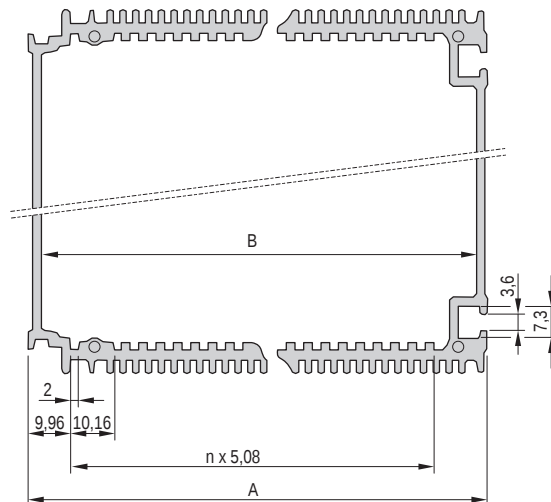
A4-247c

12 HP



04807079

10, 14, 21, 28 HP



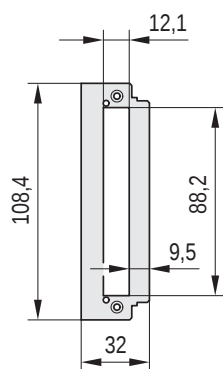
A4-247a

Dimensions table

Dimension	7 HP	10 HP	12 HP	14 HP	21 HP	28 HP
mm						
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

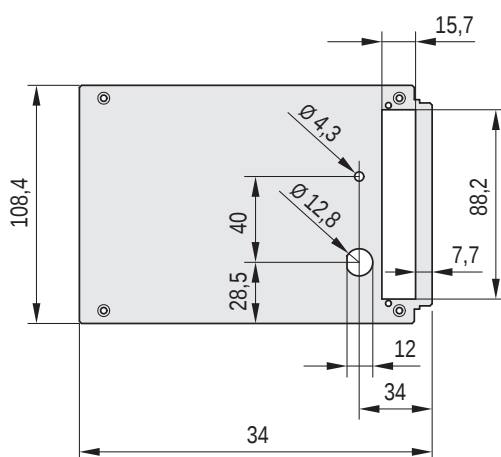
Dimensions Rear panel with/without cut-out for connector

7 HP



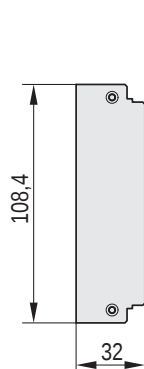
04807086

10, 12, 14, 21, 28 HP



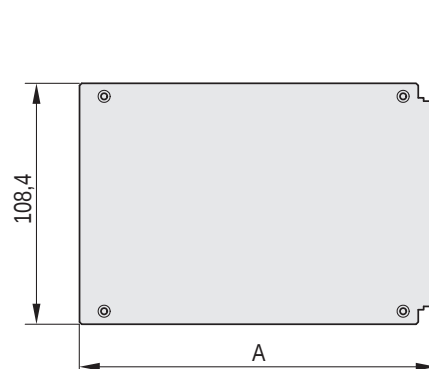
04802053

7 HP



04807087

10, 12, 14, 21, 28 HP



04807083

Dimensions table

Width	A
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

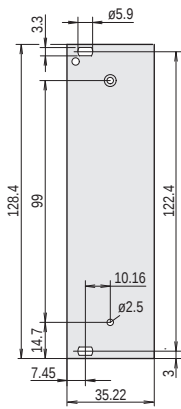
HF frame type plug-in units

Dimensions Front panels

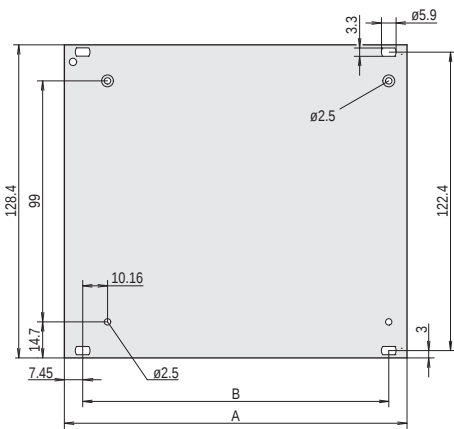
Unshielded

7 HP

10, 12, 14, 21, 28 HP



KAA43073

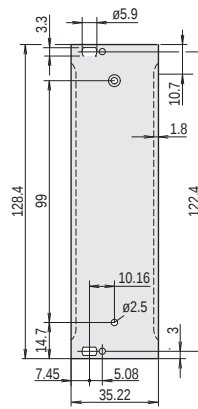


04807084

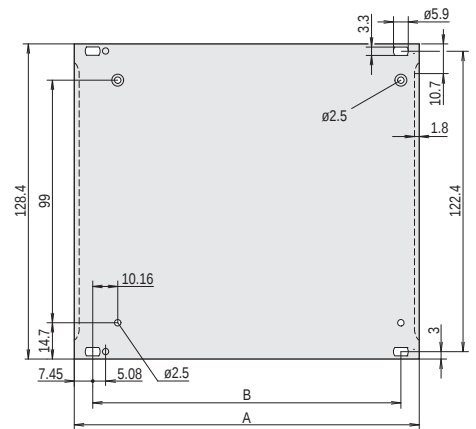
Shieldable, slotted for EMC stainless steel gasket

7 HP

10, 12, 14, 21, 28 HP



04807085

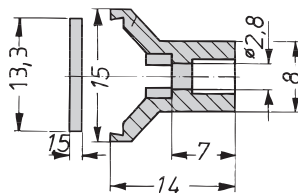


04803052

Dimensions table

Width	A	w
	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

Frame type plug-in units

Adaptor for horizontal rail mounting



04812021

- 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	11000-002



For further information www.schroff.biz/oneclick
oneClick search code = Part no.



11395007

Example: horizontal rail adaptor with lip for 19" PSU

Frame type plug-in units

Overview 0

Cabinets 1

Wall mounted cases 2

Accessories for cabinets and wall mounted cases 3

Climate control 4

Desk-top cases 5

Subracks/ 19" chassis . . . 6

Front panels, plug-in units . . 7

Systems 8

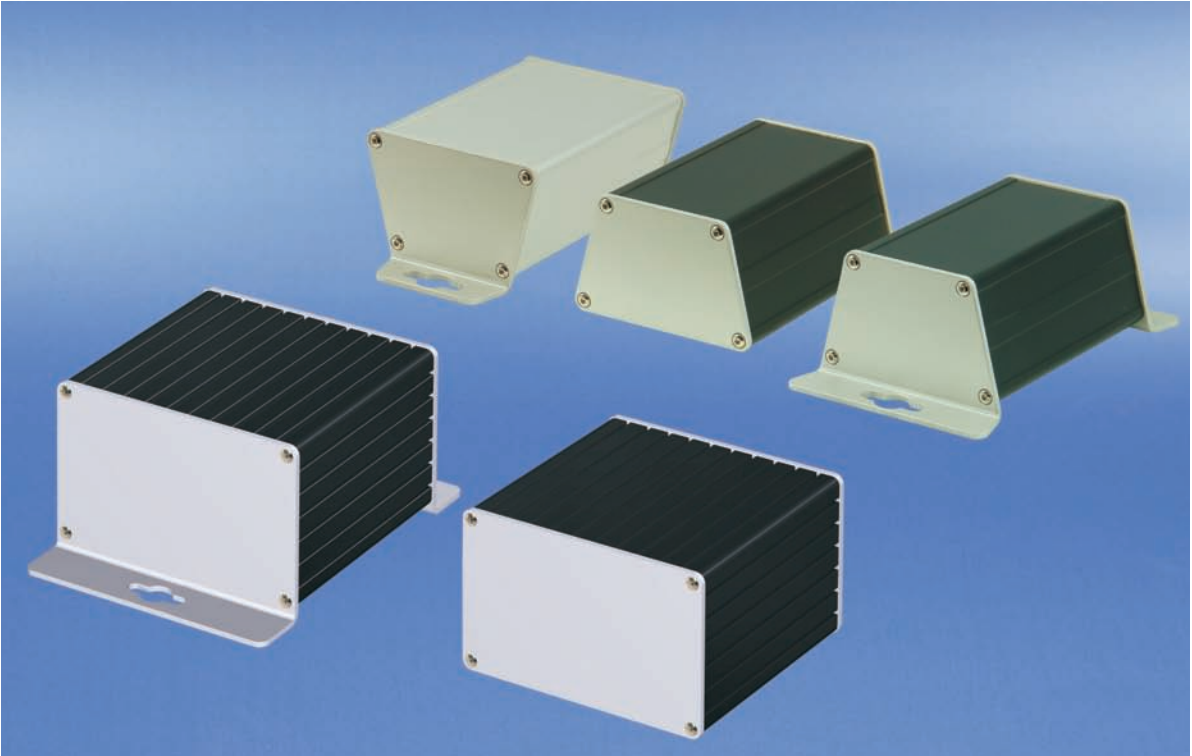
Power supply units 9

Backplanes . . 10

Connectors, front panel component system 11

Appendix 12

minipac

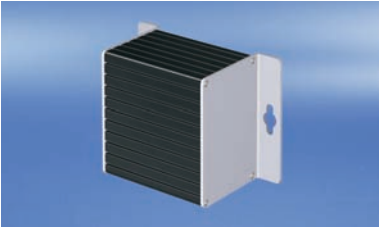


04812001

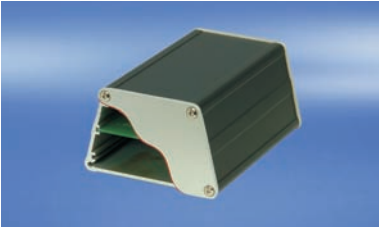
Small aluminium extrusion cases to hold PCBs

■ For applications e.g. in industry, railway technology, test and measurement, communications and network technology

Fixing options



04812006

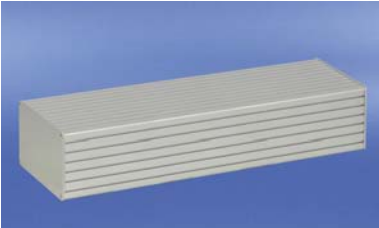


04811015



04812003

Various dimensions/colours



04812023



04812024



04812025

Individual shapes



04812026



04812027



04812028

Convenient small case - flexible enough for all your requirements

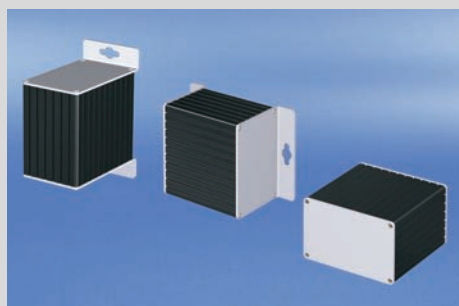
- To accommodate standardised and non-standardised PCBs
- As desktop enclosure, for bolting (e.g. to a mounting plate) or for mounting on DIN support rail (DIN 43880)
- High level of heat dissipation through large aluminium surface of case
- High stability
- Type of protection: IP 40



04811014

Trapezium shape

- Accommodates up to 3 PCBs of different heights - 50, 60 or 65 mm and board depth 100 or 160 mm
- As desktop enclosure, for wall mounting or for mounting on DIN support rail (DIN 43880)

Trapezium
shape 7.100


04812002

Rectangular shape

- Accommodates up to 4 standardised PCBs in euroboard format, height 100 mm (3 U) or up to 8 non-standardised PCBs, height 60 mm and board depth 160 mm
- Versions as desktop enclosure or for wall mounting

Rectagonal
shape 7.101


30407004

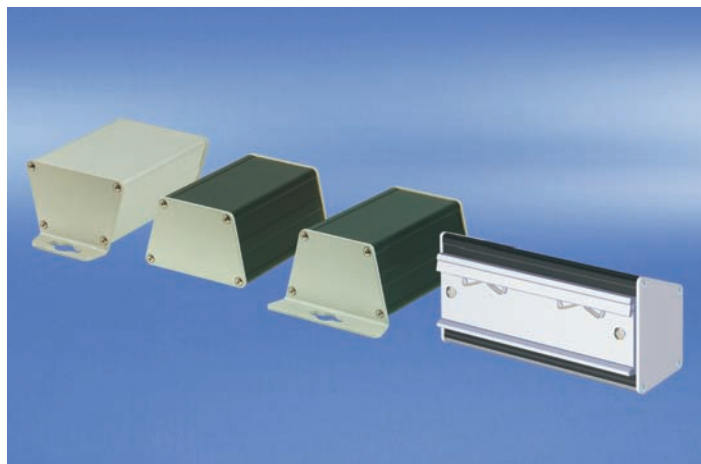
Individual cases in aluminium extrusion - our minipac variety to your specifications

- Other case lengths
- Other case shapes
- Cut-outs for lamps, switches, connectors, cable ducting, etc.
- Individual printing of cover plates
- Surface finish anodised or powder-coated

FRONT PANEL
EXPRESS

30402151

Trapezium shape



04812004

- Accommodates 3 non-standardised PCBs (height 50, 60 and 65 mm, depth 100/160 mm)
- PCB thickness 1.6 mm, spacing 15.24 mm (3 HP)
- Different versions
 - Wall mounting
 - For mounting on a DIN support rail (DIN 43880)
 - Desktop version

NEW

Delivery comprises

Item	Qty	Description
1	1	Case, trapeziform, Al extrusion
2	2	Lateral cover plate, 2.5 mm, anodised
3	1	Fixing material kit, user manual

Order Information

Description	Length mm	Part no.
Case, trapeziform, Al extrusion, black anodised; lateral cover plates anodised, thickness 2.5 mm (no mounting option)	100.5	24814-008
Case, trapeziform, Al extrusion, black anodised; lateral cover plates anodised, thickness 2.5 mm (for wall mounting on long side of trapezoid)	100.5	24814-010
Case, trapeziform, Al extrusion, anodised; lateral cover plates anodised, thickness 2.5 mm (for wall mounting on short side of trapezium)	100.5	24814-011
Case, trapeziform, Al extrusion, black anodised; for DIN support rail mounting (DIN 43880); lateral cover plates anodised, thickness 2.5 mm (for mounting on a DIN support rail, DIN 43880)	160.5	24814-014

Accessories

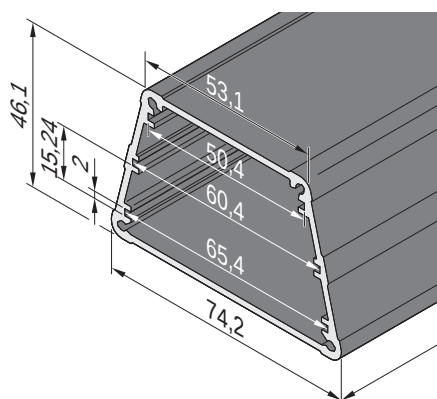
Rubber foot for desktop version, PU 4 pieces	21102-025
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Note

- **On request:**
 - Other case lengths
 - Cut-outs for LEDs, switches, connectors or couplings (USB, SUB-D)
 - Individual printing on cover plate

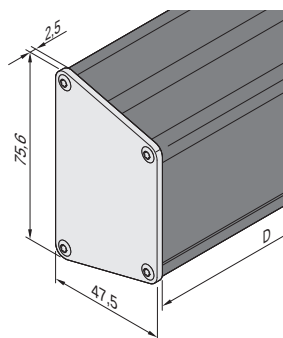


For further information www.schroff.biz/oneclick
oneClick search code = Part no.



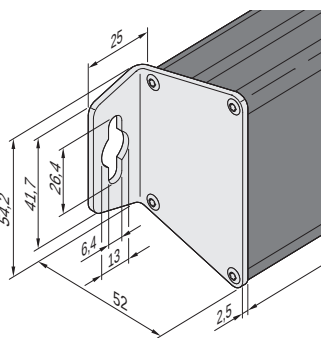
04811053

Dimensions of body tube



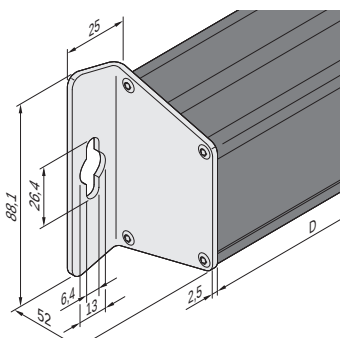
04812053

Desktop version



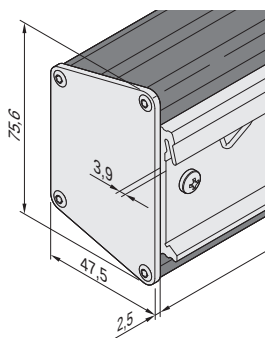
04812052

Wall mounting
(on short side of trapezoid)



04812051

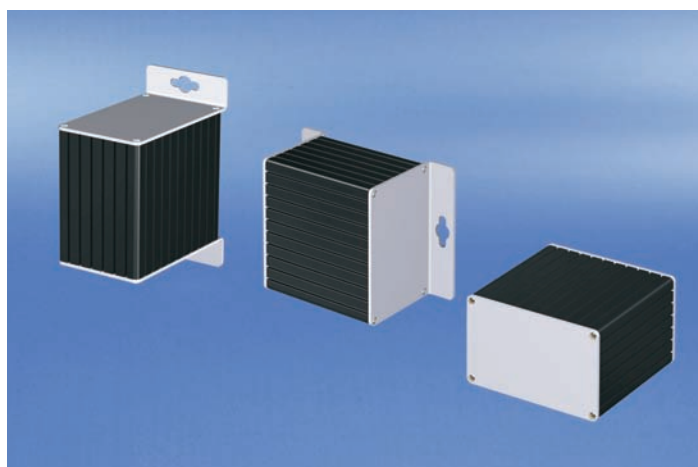
Wall mounting
(on long side of trapezoid)



04812057

For mounting on a DIN support
rail (DIN 43880)

Rectangular shape



04812002

- Accommodates 4 standardised PCBs (height 100 mm, depth 160 mm) or rotated by 90° to accommodate 8 non-standardised PCBs (height 60 mm, depth 160 mm)
- PCB thickness 1.6 mm, spacing 15.24 mm (2 HP)
- Different versions
 - Wall mounting
 - Desktop version

NEW

Delivery comprises

Item	Qty	Description
1	1	Case, rectangular, Al extrusion
2	2	Lateral cover plate, 2.5 mm, anodised
3	1	Fixing material kit, user manual

Order Information

Description	Length mm	Part no.
Case, rectangular, Al extrusion, black anodised; lateral cover plates anodised, thickness 2.5 mm (desktop version)	160.5	24814-024
Case, rectangular, Al extrusion, anodised; lateral cover plates anodised, thickness 2.5 mm (for wall mounting on long side)	160.5	24814-025
Case, rectangular, Al extrusion, anodised; lateral cover plates anodised, thickness 2.5 mm (for wall mounting on short side)	160.5	24814-027

Accessories

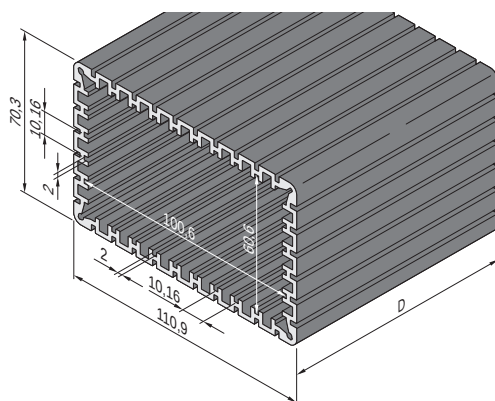
Rubber foot for desktop version, PU 4 pieces	21102-025
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Note

- On request:
 - Other case lengths
 - Cut-outs for LEDs, switches, connectors or couplings (USB, SUB-D)
 - Individual printing on cover plate

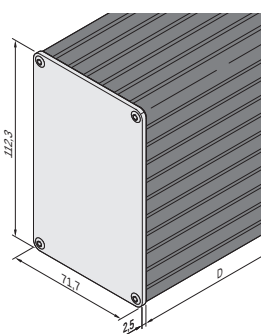


For further information www.schroff.biz/oneclick
oneClick search code = Part no.



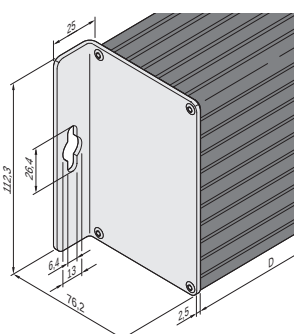
04812050

Dimensions of body tube



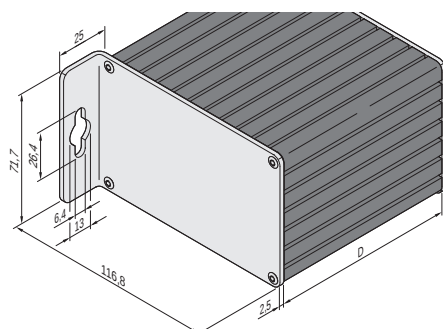
04812056

Desktop version



04812055

Wall mounting
(on long side of rectangle)

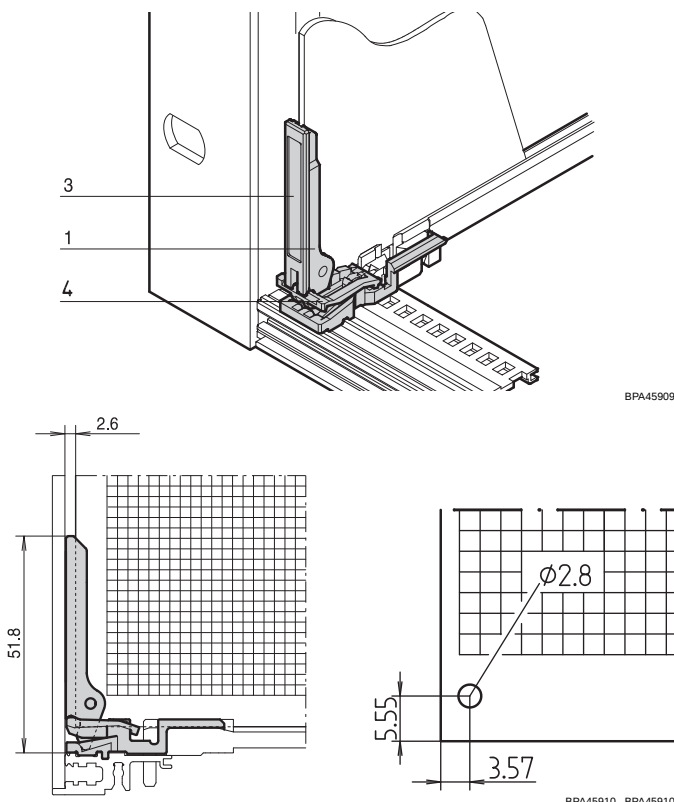


04812054

Wall mounting (on short side of rectangle)

PCB accessories

PCB handle C



- For europacPRO, multipacPRO, ratiopacPRO, propacPRO and compacPRO
- Mounts behind front panel
- Insertion and extraction
- Can be labelled
- In accordance with IEC 60297-3-102

Order Information

Item	Description	Material	Colour	Qty/PU	Part no.
1	PCB handle C	PBT, UL 94 V-0	red	10	24560-378
3	Identification strip (1 sheet = 438 pieces)	Polyester film, self-adhesive	white/ matt	1	60817-228

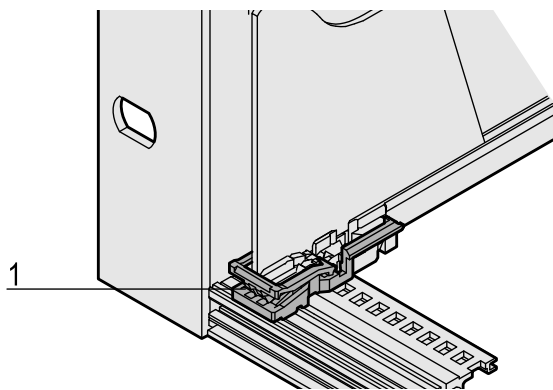
Note

- Minimum spacing of guide rail 3 HP
- for board thickness 1.6 mm
- Please order PCB retainer C separately



For further information www.schroff.biz/oneclick
oneClick search code = Part no.

PCB retainer C



- For europacPRO, multipacPRO, ratiopacPRO, propacPRO and compacPRO
- Can also be used without PCB handle
- Application on top and bottom horizontal rail with "accessory" type guide rail

Order Information

Item	Description	Material	Colour	Qty/PU	Part no.
1	PCB retainer C	PBT, UL 94 V-0	red	10	24560-377

Note

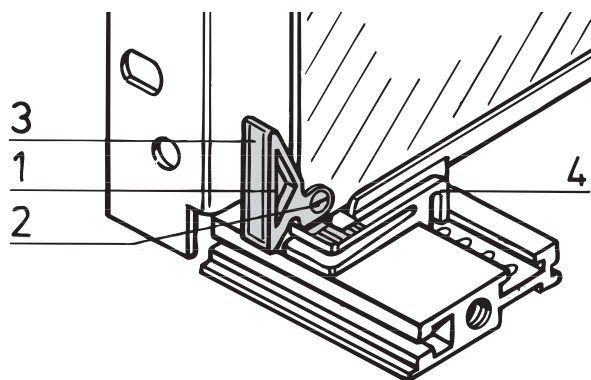
- Minimum spacing of guide rail 3 HP
- Cannot be used with propac, compac, inpac cases



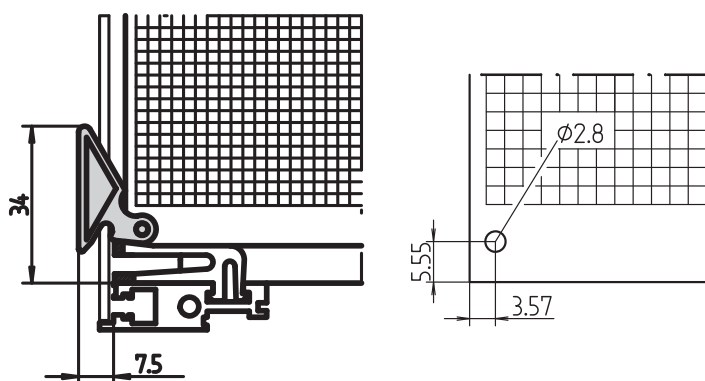
For further information www.schroff.biz/oneclick
oneClick search code = Part no.

PCB accessories

PCB handle B1



B42729



BZB42725 BZA42724

- For bolting or riveting to 1.6 mm PCBs (top and bottom)
- Extraction function only
- Can be labelled

Order Information

Item	Description	Material	Colour	Qty/PU	Part no.
1	PCB handle, bolt-on	PBT, UL 94 V-0	red	1 piece (SPQ 10)	60817-067
1a	PCB handle for rivet fitting	PBT, UL 94 V-0	red	1 piece (SPQ 10)	60817-072
2	Countersunk screw	St, nickel-plated, DIN 965	–	100	21100-515
2a	Tubular rivet	Brass, DIN 7340	–	100	21100-076
3	Identification strip	Polyester film, self-adhesive	white	100	21100-569

SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity: Please order at least 10 pieces PCB handles or a multiple

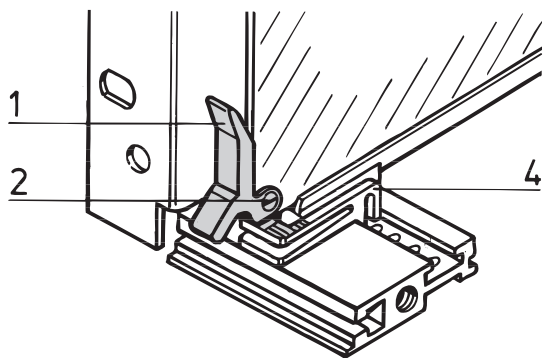
Note

- Can be used with PCB retainer B1, B2, see page 7.104

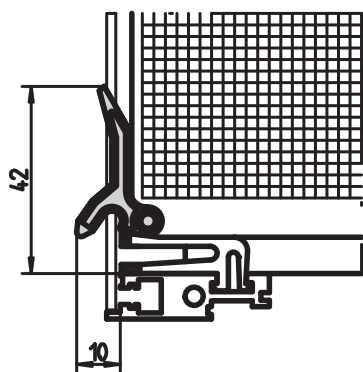


For further information www.schroff.biz/oneclick
oneClick search code = Part no.

PCB handle B2



BZA46427



BZB42726

- For bolting to PCBs (1.6 mm); can only be used on bottom horizontal rail
- Extraction function only
- Can be labelled

Order Information

Item	Description	Material	Colour	Qty/PU	Part no.
1	PCB handle	PBT, UL 94 V-0	red	1 piece (SPQ 10)	60817-055
2	Slotted cheesehead screw, M2.5 × 6	St, nickel-plated	–	100	21100-146

SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity: Please order at least 10 pieces printed circuit board handles or a multiple

Note

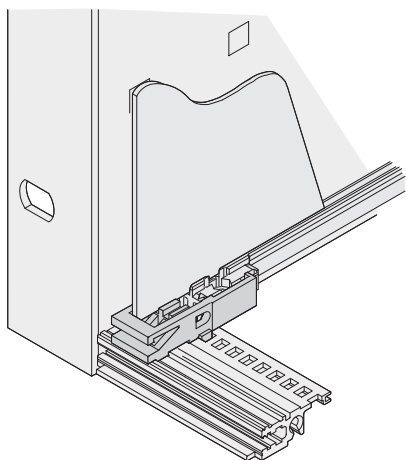
- Can be used with PCB retainer B1, B2, see page 7.104



For further information www.schroff.biz/oneclick
oneClick search code = Part no.

PCB accessories

PCB retainer B1, B2



06109050

- For fixing PCB
- Can also be used without PCB handle
- Application on top and bottom horizontal rail
- Suitable for PCB handles B1 and B2

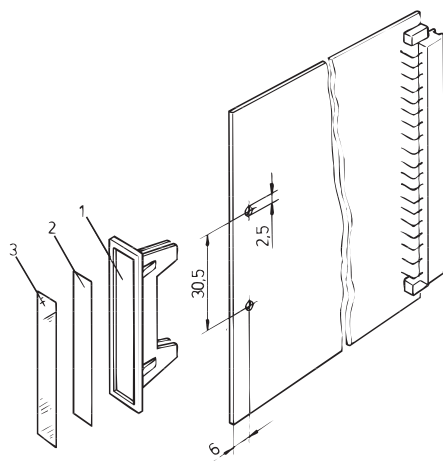
Order Information

Description	Material	Colour	Qty/PU	Part no.
PCB retainer B1, B2	PPO, UL 94 V-0	red	10	24560-381

Note

- Groove width 2 mm

PCB handle, snap-on



A3261

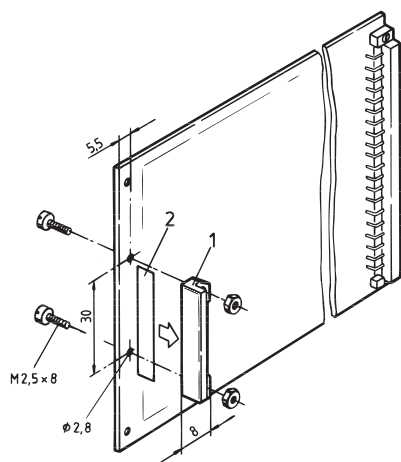
- For board thickness 1.6 mm

Order Information

Item	Description	Material	Colour	Qty	Part no.
1	PCB handle, can be locked	PPE, UL 94 V-1	grey	1 piece (SPQ 10)	60800-039
1	PCB handle, can be locked	PPE, UL 94 V-1	red	1 piece (SPQ 10)	60800-045
Transparent strips Item 3, 50 × 5 × 0.3 mm, PU 100 pieces					69000-007

SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity: Please order at least 10 pieces PCB handles or a multiple

PCB handle, can be bolted/riveted



A4-1302

- For board thickness 1.6 mm

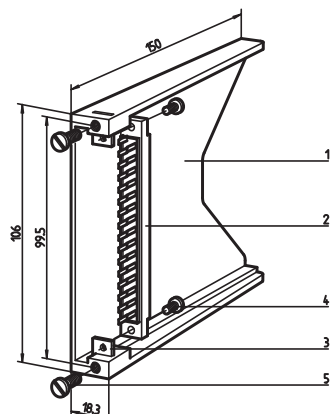
Order Information

Item	Description	Material	Colour	Qty	Part no.
1	PCB handle, can be bolted/riveted	PC	yellow	1 piece (SPQ 10)	60817-050
2	PCB handle, can be bolted/riveted	PC	red	1 piece (SPQ 10)	60817-051
1	PCB handle, can be bolted/riveted	PC	green	1 piece (SPQ 10)	60817-052
Identification strip Item 2, carton, white, 37.5 × 7 × 0.15 mm, 1 sheet = 105 pieces					69000-969
Pozidrive panhead screw M2.5 × 8, St, nickel-plated, PU 100 pieces					21101-069
Hexagonal nut A 2.5, nickel-plated, PU 100 pieces					21100-144
Tubular rivet, form B (roundhead) B 2.5 × 0.25 × 5, St/brass, raw, DIN 7340, PU 100 pieces					21100-459

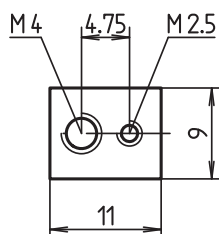
SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity: Please order at least 10 pieces PCB handles or a multiple

PCB accessories

PCB pocket



Retention bracket (DIN 41612)



LKA42605

- Accepts PCBs in euroboard format, 100 × 160 mm
- For female connectors to EN 60603 (DIN 41612)

Delivery comprises (kit)

Item	Qty	Description
1	1	PCB pocket, PBT (P), grey, UL 94 V-0
3	2	Retention bracket, St, 2 mm, nickel-plated
4	2	Cheesehead screw M2.5 × 6, St, nickel-plated
5	2	Cheesehead screw M4 × 12, St, nickel-plated

Order Information

Item	Description	Material	Colour	Qty/PU	Part no.
1	PCB pocket	PBT (P)	grey	1	20800-032

Note

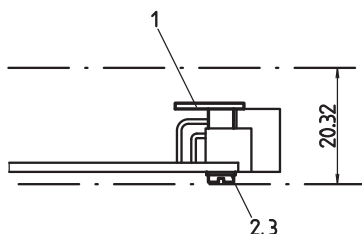
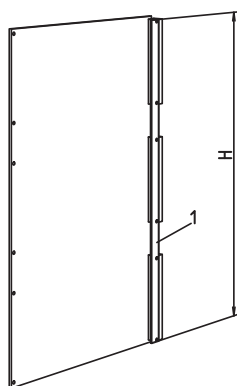
- Connector (item 2) see page 11.2



For further information www.schroff.biz/oneclick
oneClick search code = Part no.

LKA42606

PCB strengthening (9 U)



LKA42609

- Protects large PCBs from bending
- Creates an additional crossbar (corresponding to IEEE recommendations, P 896, Nubus, Multibus® II etc.) that links all connectors mechanically
- Fixing points match connectors to EN 60603 (DIN 41612), types B, R, C and D

Delivery comprises (kit)

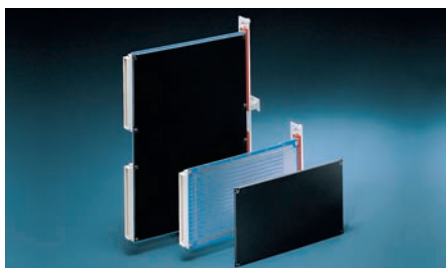
Item	Qty	Description
1	1	PCB strengthening, Al extrusion, anodised, cut edges plain; separator, stainless steel, riveted on
2	6	Cheesehead screw M 2.5 × 12, St, nickel-plated
3	6	Washer 2.6, St, nickel-plated

Order Information

Description	Height H mm	Part no.
For 9 U PCBs	361.6	20809-441

LKA42593

PCB covers



- Covers to protect solder side of board, see page 7.62



For further information www.schroff.biz/oneclick
oneClick search code = Part no.

11092008

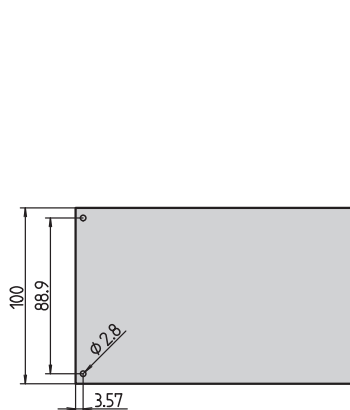
PCB accessories

Individual
components

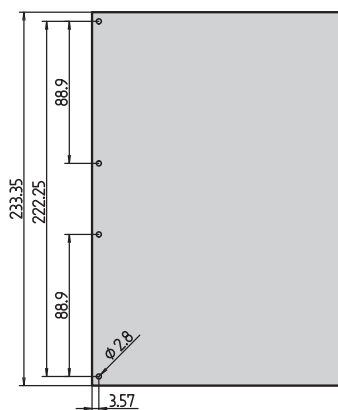
PCB support for static trapeziform handle

Fixing parts for extractor handles in key form 2

Drill hole dimensions on PCB

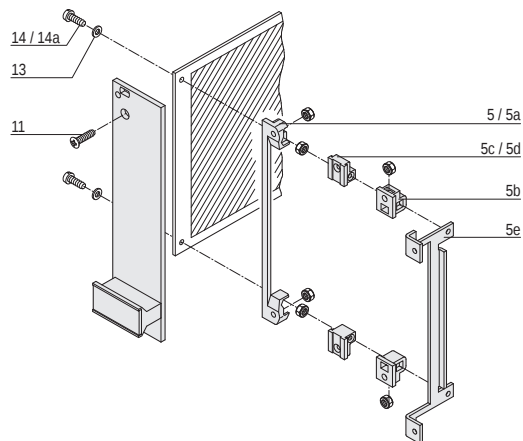


3 HE

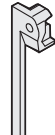


6 HE

bga43076 bga43077



bza46430

Fixing parts	Item		Required quantity		Qty/PU	Part no.
			3 U	6 U		
PCB bracket 4 clearance holes for front panel/PCB fixing, 4 recesses for hexagon nuts; PBT, UL 94 V-0, red	5		1	2	1 piece (SPQ 10) ¹⁾	60807-011
PCB bracket 4 threads M2.5 for front panel/PCB fixing, PBT, UL 94 V-0, grey, 1 piece	5a	 AZA45177	1	2	1 piece (SPQ 10) ¹⁾	60807-211
PCB bracket Clearance hole for front panel fixing, with recess for hexagon nut, drill hole for self-tapping screw for PCB fixing, PBT, UL 94 V-0, grey, 1 piece	5b	 AZA45177	2	4	1 piece (SPQ 10) ¹⁾	60807-183
PCB bracket 2 threads M2.5 for front panel/PCB fixing, die-cast zinc, 1 piece	5c	 06707050	2	4	1 piece (SPQ 10) ¹⁾	60807-181
PCB bracket Thread M2.5 for front panel fixing, clearance hole for PCB fixing, die-cast zinc, 1 piece	5d	 06707050	2	4	1 piece (SPQ 10) ¹⁾	60807-203
PCB bracket 4 threads M2.5 for fixing front panel/PCB for recessed PCB mounting (20 mm), mounting depth 192.24 mm, St, zinc-plated; not for europacPRO, multipacPRO, ratiopacPRO, propacPRO or compacPRO, 1 piece	5e	 AZA46586	1	2	1 piece (SPQ 10) ¹⁾	30808-871

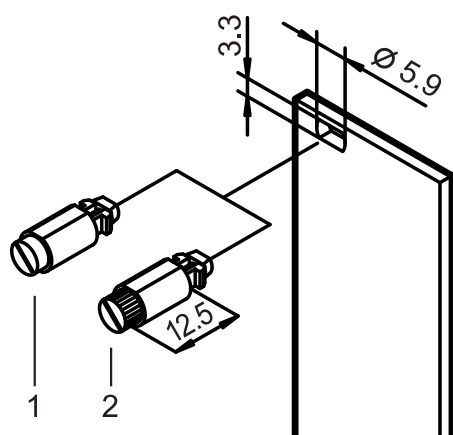
1) SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple

Assembly parts

Assembly parts

- Quick-release fasteners
- Sleeves
- Screws
- Cage nuts
- Tools

Quick-release fasteners



06702062

- Vibration and shock proof
- 1/4 rotary lock with defined stop
- Detection of fastening position through slot position

Delivery comprises

Qty	Description
1	Locking pin, St, locking, Zn die-cast
1	Press-in sleeve, POM

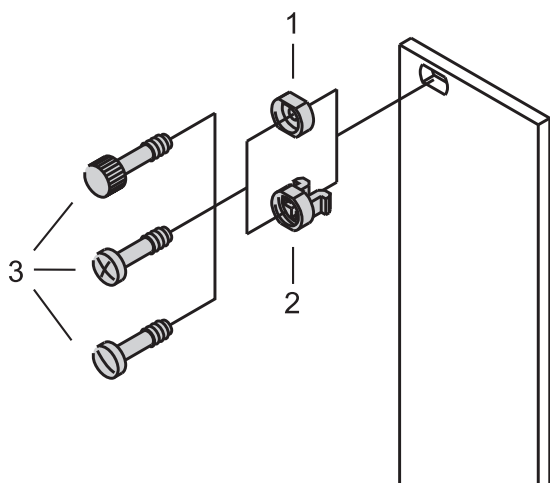
Order Information

Item	Description	Qty/PU	Part no.
1	With slotted head, grey	100	21101-847
1	With slotted head, black	100	21101-848
2	With knurled and slotted head, grey	100	21101-849
2	With knurled and slotted head, black	100	21101-850

Note

Quick-release fasteners: mounting without threaded insert

Sleeves



06702061

Order Information

Item	Description	Application	Qty/PU pieces	Part no.
2	Plastic sleeve, PA, grey	for unshielded front panels	100	21100-464
2	Plastic sleeve, PA, black	for unshielded front panels	100	21100-591
1	Metal sleeve, brass, nickel-plated	for shielded front panels	10	21100-659
1	Metal sleeve, brass, nickel-plated	for shielded front panels	100	21100-660
1	Metal sleeve, brass, black	for shielded front panels	10	21100-885
1	Metal sleeves, stainless steel	for shielded front panels	10	21100-661
1	Metal sleeves, stainless steel	for shielded front panels	100	21100-662

Accessories

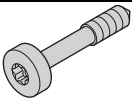
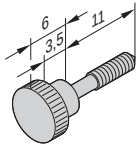
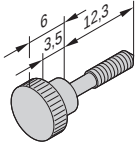
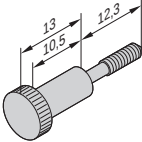
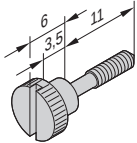
Pozidrive/slotted collar screw M2.5 × 11, St, nickel-plated, PU 100 pieces	21100-748
Pozidrive/slotted collar screw M2.5 × 12.3, St, nickel-plated, PU 100 pieces	21101-101

Note

- Metal sleeves must be pressed-in into front panels
- Sleeve does not fit 2 HP wide front panels

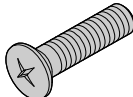
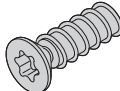
Assembly parts

Collar screws

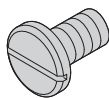
Description		Material	Dimension	Qty/PU	Part no.
 Pozidrive/slotted collar screw AZA46586		St, nickel-plated	M2.5 x 11	100	21100-748
		St, zinc-plated, black	M2.5 x 11	100	21100-749
		Stainless steel, with slot	M2.5 x 11	100	21101-323
		St, nickel-plated	M2.5 x 12.3	100	21101-101
		St, zinc-plated, black	M2.5 x 12.3	100	21101-102
		Stainless steel	M2.5 x 12.3	100	21101-906
 Torx collar screw AZA45941		St, nickel-plated	M2.5 x 12.3	100	21101-782
		St, zinc-plated, black	M2.5 x 12.3	100	21101-783
 Collar screw with knurled head 06709050  06709051  06709052		Brass, nickel-plated	M2.5 x 11	50	21100-268
		Brass, nickel-plated	M2.5 x 12.3	100	21101-749
		Brass, nickel-plated	M2.5 x 12.3	100	21101-909
 Slotted collar screw with knurled head 06709053		Brass, nickel-plated	M2.5 x 11	100	21101-106

Assembly parts

Countersunk screws

Description		Material	Dimension	Qty/PU	Part no.
	Pozidrive countersunk screw	St, nickel-plated	M2.5 x 6	100	21100-515
		St, nickel-plated	M2.5 x 12	100	21100-507
82845182					
	Torx countersunk screw	St, zinc-plated	M4 x 5	100	24560-139
		St, zinc-plated	M4 x 14	100	24560-145
AZA46585					
	Raised Pozidrive countersunk screw	St, nickel-plated	M2.5 x 8	100	21100-429
		St, nickel-plated	M2.5 x 10	100	21100-500
		St, zinc-plated, black	M2.5 x 10	100	21100-649
		St, nickel-plated	M3 x 8	100	21100-542
		St, zinc-plated, black	M3 x 8	100	21100-648
		St, zinc-plated, black	M3 x 8	100	21100-648
06702056					
	Torx countersunk screw, self-tapping	St, zinc-plated	2.5 x 7.7	100	24560-158
06707057					

Screws for plug-in units



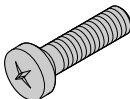
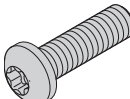
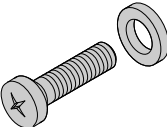
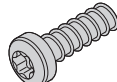
Order Information

Description	Qty/PU	Part no.
Slotted flathead screw, 6-32 UNC x 6	100	21100-712

06706053

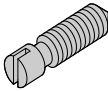
Assembly parts

Panhead screws

	Description	Material	Dimension	Qty/PU	Part no.
	Pozidrive panhead screw	St, nickel-plated	M2.5 x 5	100	21101-314
		St, nickel-plated	M2.5 x 6	100	21101-219
		St, nickel-plated	M2.5 x 8	100	21101-069
		St, nickel-plated	M2.5 x 10	100	21101-220
		St, nickel-plated	M2.5 x 12	100	21101-221
		St, nickel-plated	M2.5 x 16	100	21101-222
		St, zinc-plated	M5 x 12	100	21100-788
06702057					
	Torx panhead screw	St, zinc-plated	M2.5 x 6	100	24560-159
		St, nickel-plated	M2.5 x 7	100	24560-147
		St, nickel-plated	M2.5 x 10	100	24560-148
		St, nickel-plated	M2.5 x 12	100	24560-161
		St, nickel-plated	M2.5 x 14	100	24560-162
		St, zinc-plated	M4 x 6	100	24560-135
		St, zinc-plated	M4 x 6	100	24560-151
		St, zinc-plated	M4 x 10	100	24560-155
AZA45940					
	Screw + securing washer (PA)	St, nickel-plated	M2.5 x 12	100	21100-777
		06702051			
	Torx panhead screw, self-tapping	St, zinc-plated, black	2.5 x 7.3	100	24560-157
		St, zinc-plated	2.5 x 9.3	100	24560-141
06707058					

Assembly parts

Grub screws

	Description	Material	Dimension	Qty/PU	Part no.
	Grub screw	Stainless steel	M2.5 x 9	100	21101-359
		St, nickel-plated	M2.5 x 8	100	21100-276
		St, zinc-plated	M3.0 x 8	100	21100-646

06702053

Washers

	Description	Material	Dimension	Qty/PU	Part no.
	Washer	Plastic, PA	2.7 x 5 x 1	100	21101-121
		Plastic, PA	2.8 x 6,3 x 2	100	21101-964

AZA45178

	Shakeproof washer	St, nickel-plated	A 2.6	100	21100-142

AZA45180

Nuts

	Description	Material	Dimension	Qty/PU	Part no.
	Hexagon nut	St, nickel-plated	M2.5	100	21100-144
	Square nut	St, nickel-plated	M2.5	100	21100-359

AZA43239

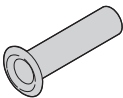
	Square nut	St, nickel-plated	M2.5	100	21100-359

06707050

	Square nut	St, zinc-plated	M4	100	24560-140

AZA45921

Tubular rivet

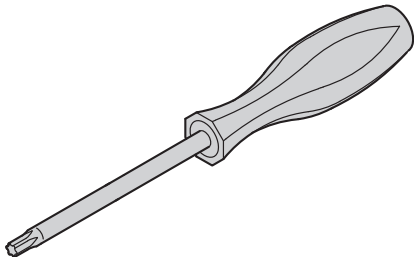
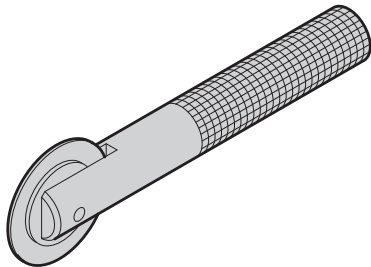
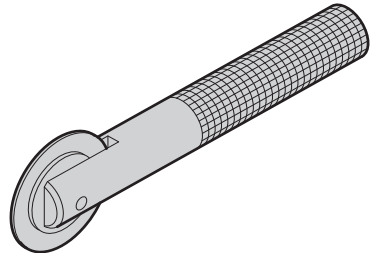
	Description	Material	Dimension	Qty/PU	Part no.
	Tubular rivet, form B (roundhead)	St/brass, raw	B 2.5 x 0.25 x 5	100	21100-459

06706050

Assembly parts

Assembly tools

Order Information

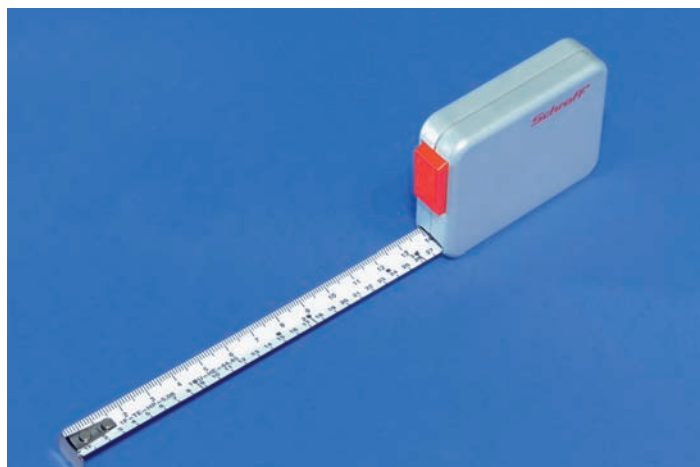
	Description	Order Information			
		Application	Dimension	Qty/PU	Part no.
 AZA45925	Torx screwdriver	For M2.5 screw	T8	1	64560-026
		For M4 screw	T20	1	64560-027
 aza45938	Assembly tool	Exclusively to fix stainless steel EMC gaskets in horizontal rails	—	1	24560-271
 aza45937	Assembly tool	To fix stainless steel EMC gaskets on front panels with lateral slot	—	1	24560-270

Note

- Assembly tool to insert keying/coding pegs in guide rails is available on request

Assembly parts

Measuring tape



32506001

- Measuring tape with cm, U-, HP-division (length 2 m)
- Plastic housing, metal measuring tape with automatic collection

Order Information

Description	Qty/PU	Part no.
Measuring tape	1	89009-001



For further information www.schroff.biz/oneclick
oneClick search code = Part no.

