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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

Plug-in units

Overview 7.17

Handles for plug-in units



04602005

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

7.20

Plug-in units with injector
and extractor handlesFor 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

7.30

7.31

For VPX, VXS,
CompactPCI and
VME64x
applications 7.30

04604059

For e.g. VMEbus applications

Trapeziform extractor handle, type 2

7.33

7.35

For e.g. VMEbus
applications
type 2 7.33

04692005

For e.g. VMEbus applications

Trapeziform extractor handle, type 1

7.40

7.42

For e.g. VMEbus
applications
type 1 7.40

04692011

For Multibus® II applications

Extractor handle, multibus type II, IEC 60297

–

7.46

For Multibus®
II applications 7.46

04692008

For plug-in units in accordance with IEC 60297

Extractor handle in key form 1

–

7.48

For plug-in units
in accordance
with IEC 60297 ... 7.48

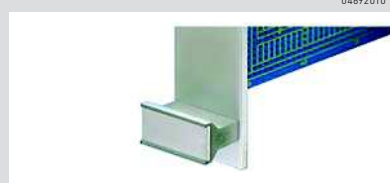
04692010

For plug-in units in accordance with IEC 60297

Extractor handle in key form 2

–

7.51

For plug-in units
in accordance
with IEC 60297 ... 7.51

04692003

For plug-in units in accordance with IEC 60297

Static handle

7.54

7.56

For plug-in units
in accordance
with IEC 60297 ... 7.54

04692004

Accessories for plug-in units

Mechanical protection for static trapeziform handle and fixing materials kit

7.64

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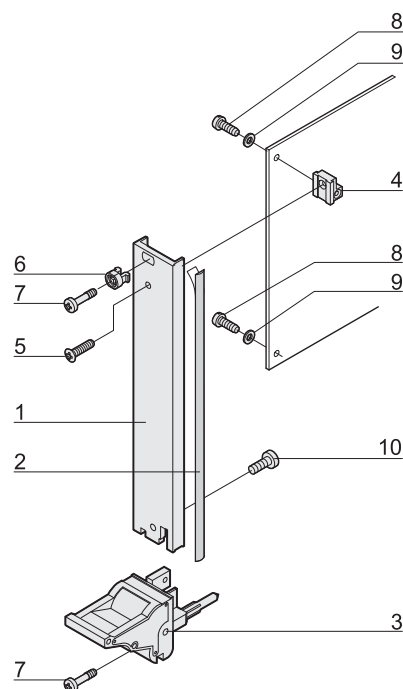
Accessories for
plug-in units 7.62

PCB cover 7.64

Plug-in units – for CompactPCI, VME64x

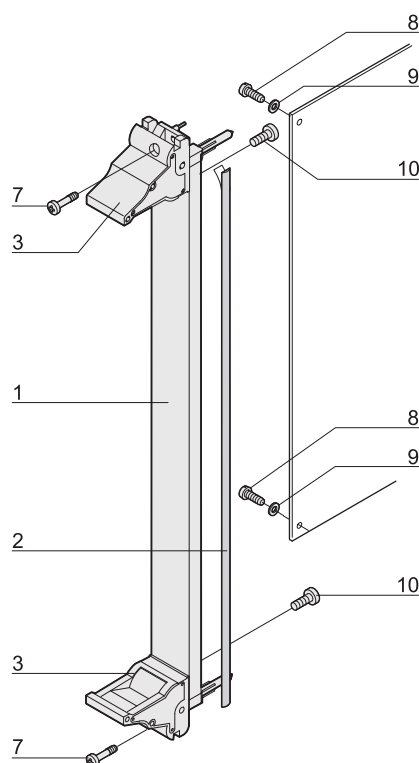
Kits

3 U



04602073

6 U



04602074

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

- 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	Qty				Description
	3 U		6 U		
	<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	Part no.	Part no.
HP	Rear I/O	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

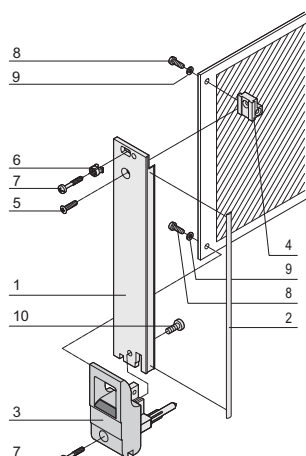
Microswitch for handles, CompactPCI/VME64x application PU 10 pieces	20817-606
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- Dimension drawing of front profile see page 7.26
- Description of microswitch see page 7.31

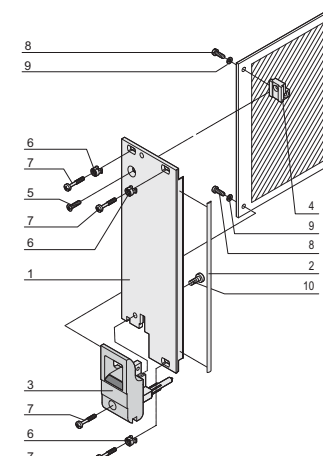
Plug-in units – for CompactPCI, VME64x

Kits

3 U

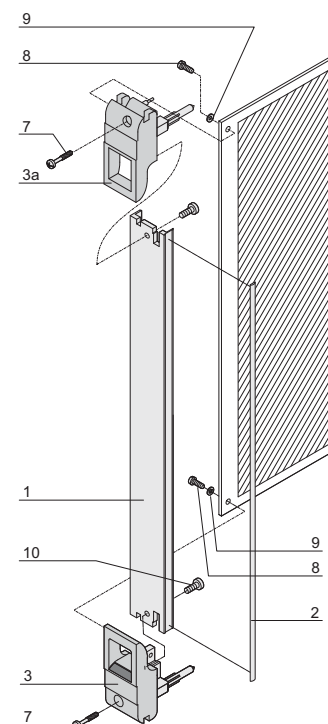


< 8 HP

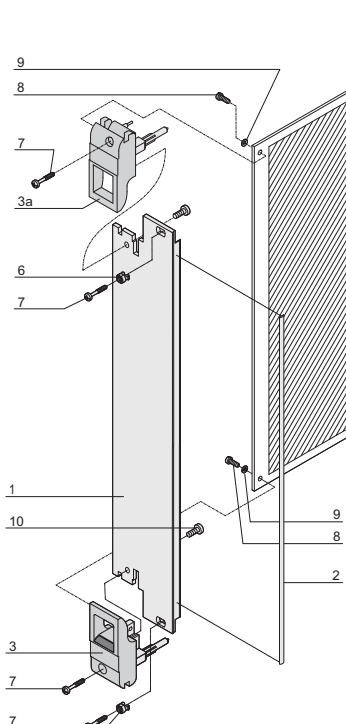


≥ 8 HP

6 U



< 8 HP



≥ 8 HP

Plug-in units with IET insertion/extractor handle for CompactPCI/VME64x applications

- Suitable for insertion and extraction forces up to 700 N (per pair)
- Version for telecoms applications
- To IEEE 1101.10 and IEC 60297-3-102
- Codable to IEC 60297-3-103/ IEEE 1101.10
- Front panel, shielded (3 U, 6 HP)
- designed for fitting of microswitches
- Online download of 3D CAD data

NEW

Delivery includes (Kit)

Item	Qty				Description
	3 U		6 U		
	<8 HP	≥8 HP	<8 HP	≥8 HP	
1	1	1	1	1	Front panel (U profile), Al, front anodized, 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 gray, 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, gray
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.
3 U Height	
4	20848-763
8	20848-764
12	20848-765
6 U Height	
4	20848-766
8	20848-767
12	20848-768
Accessories	
Coding peg, PC, UL 94 V-0, grey, RAL 7035 PU 100 pieces	20817-501
Microswitch for handles, CompactPCI/VME64x application PU 10 pieces	20817-606

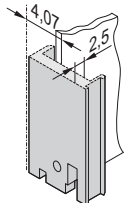
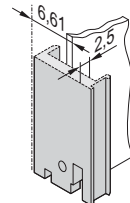
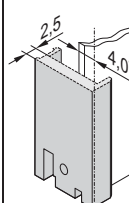
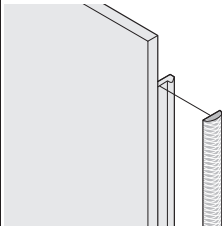
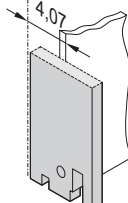
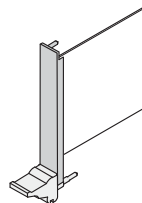
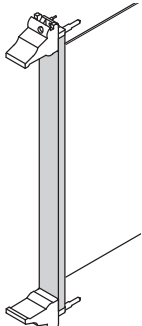
- For description of coding peg and microswitch see page 7.23
- Description of microswitch see page 7.31

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	Front mounting, PCB fixing with 0.1" offset	Rear I/O mounting			
	 04608060	 04608062	 04608061	 B9A45760		 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			–
	6	30848-313	30848-428			–
	7	30848-301	30848-429			–
	8	30848-314	30848-430			30848-869
	9	20848-227	–			–
	10	30848-315	30848-431			–
	11	20848-228	–			–
	12	30848-316	30848-432			30848-985
	14	20848-230	–			–
	16	20848-232	–			–
6 U Height						
 04608066	4	30848-317	30848-317	21101-855	21101-856	30848-336
	5	30848-304	30848-304			30848-304
	6	30848-318	30848-318			30848-318
	7	30848-305	30848-305			30848-305
	8	30848-319	30848-319			30848-319
	9	20848-243	20848-243			20848-243
	10	30848-320	30848-320			30848-320
	11	20848-244	20848-244			20848-244
	12	30848-321	30848-321			30848-321
	14	20848-246	20848-246			20848-246
	16	20848-248	20848-248			20848-248
Fixing material see page	7.23	7.23	7.23			7.23
Dimensions see page	7.26	7.26	7.25			7.27

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

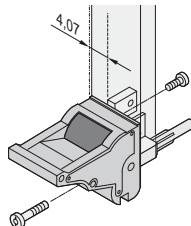
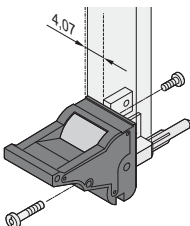
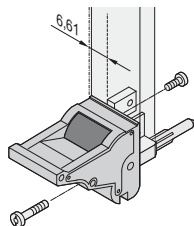
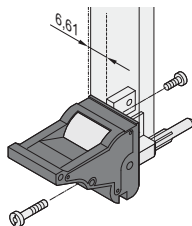
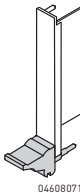
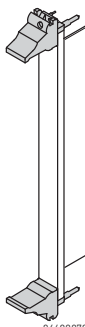
Part no. includes one packing unit (PU); delivery is exclusively made in PU

Plug-in units – for CompactPCI, VME64x

Individual
components

Insertor/extractor handle, type IEL

Order Information

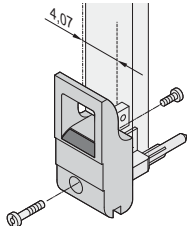
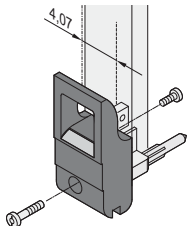
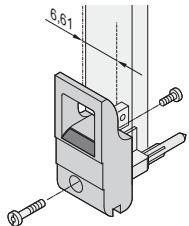
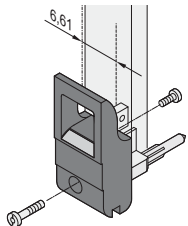
	Insertor/extractor handle, type IEL, board fixing without offset				Insertor/extractor handle, type IEL, board fixing with 0.1" offset				
	lever: light grey, RAL 7035 key: black, RAL 9005		lever: black, RAL 9005 key: light grey, RAL 7035		lever: light grey, RAL 7035 key: black, RAL 9005		lever: black, RAL 9005 key: light grey, RAL 7035		
	 04608050		 04608052		 04608051		 04608053		
	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	7.28				7.28				

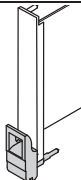
Plug-in units – for CompactPCI, VME64x

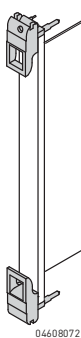
Individual
components

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		 04608056		 04608055		 04608055	
	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	7.23				7.23			
Dimensions see page	7.29				7.29			

Plug-in units – for CompactPCI, VME64x

Individual
components

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

Order Information

3 U

6 U

04609050

top

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 steel	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		

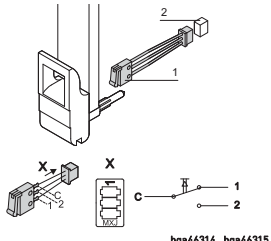
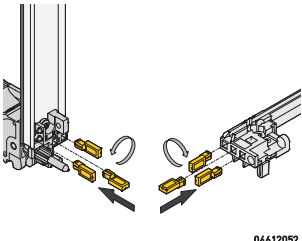
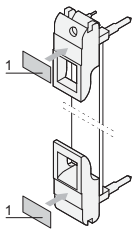
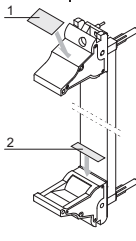
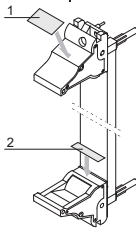
SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple

Plug-in units – for CompactPCI, VME64x

Individual components

Insertion/extraction handles, type IEL/IET, accessories

Order Information

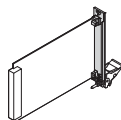
Microswitch	Keying/coding	Label strips	Label strips	
with cable and plug  Molex connector housing 51021-0300, Molex crimp contact 50058-8000 and fixing clip (item 3), plastic, PC, UL 94 V-0, max. switched current 50 mA, operating range -25 °C to +70 °C, mech. life ≥ 20,000 switching cycles, electr. life ≥ 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  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 6.40 PU 100 pieces	19 x 9.5 mm  Polyester, self-adhesive, white, 1 sheet 210 pieces (item 1) PU 210 pieces	19 x 9.5 mm  Polyester, self-adhesive, white, 1 sheet 210 pieces (item 1) PU 210 pieces	19 x 4.8 mm  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

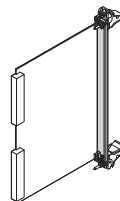
PCB fixing without offset

3 U

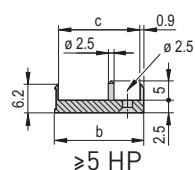
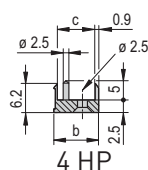
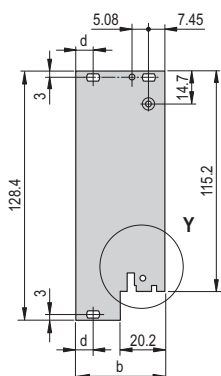
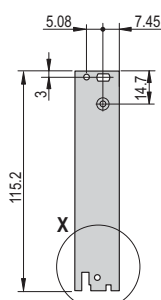
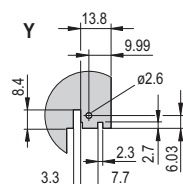
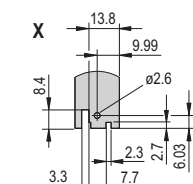


04608068

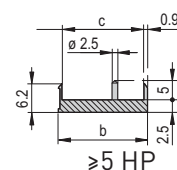
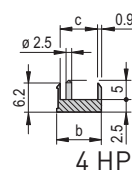
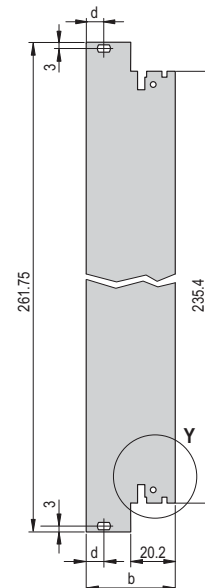
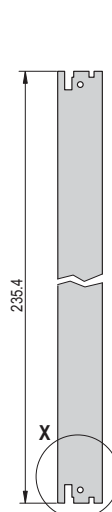
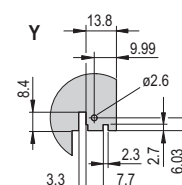
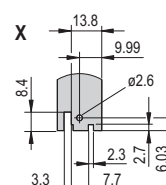
6 U



04608076



04608069



04608075

Dimensions table

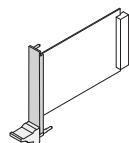
Width	b	c	d
HP	mm	mm	mm
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5	25.06	22.53	–
6	30.14	27.61	–
7	35.22	32.69	–
8	40.30	37.77	7.45
9	45.38	42.85	7.45
10	50.46	47.93	7.45
11	55.54	53.01	7.45
12	60.62	58.09	7.45
14	70.78	68.25	7.45
16	80.94	78.41	7.45

Plug-in units – for CompactPCI, VME64x

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

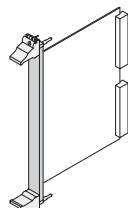
PCB fixing without offset / with 0.1" offset

3 U

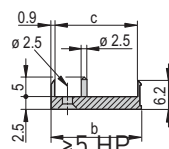
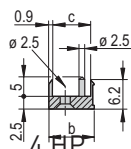
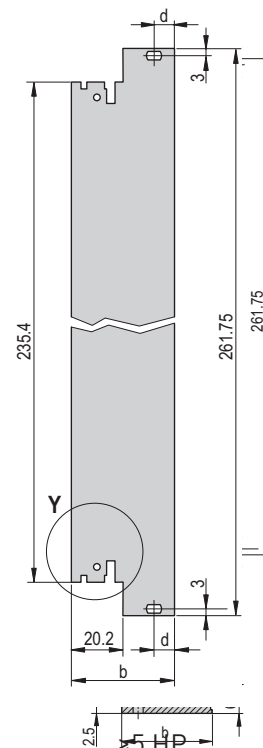
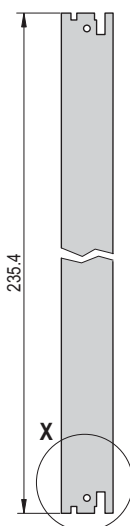
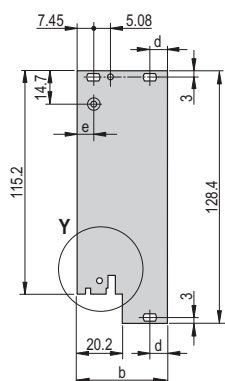
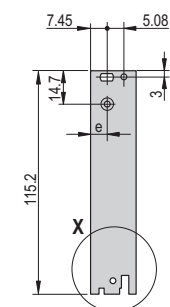
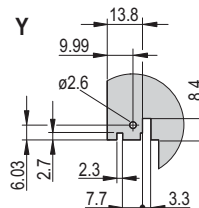
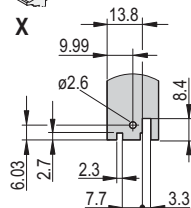
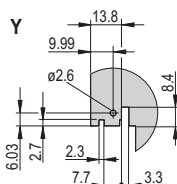
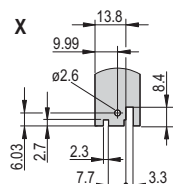


04608067

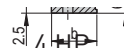
6 U



04608066



04608064



04608065

Dimensions table

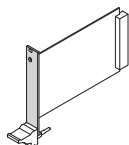
Width HP	b mm	c mm	d mm	without offset e mm	with 0.1" offset e mm
4	19.98	17.45	–	7.45	9.99
5	25.06	22.53	–	7.45	9.99
6	30.14	27.61	–	7.45	9.99
7	35.22	32.69	–	7.45	9.99
8	40.30	37.77	7.45	7.45	9.99
9	45.38	42.85	7.45	7.45	9.99
10	50.46	47.93	7.45	7.45	9.99
11	55.54	53.01	7.45	7.45	9.99
12	60.62	58.09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

Plug-in units – for CompactPCI, VME64x

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

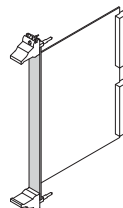
PCB fixing without offset

3 U

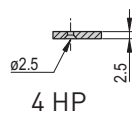
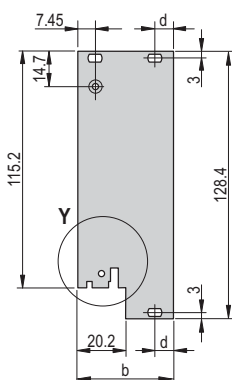
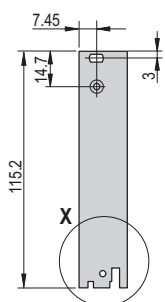
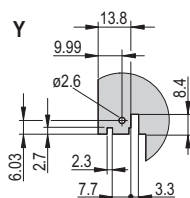
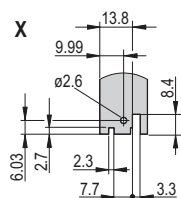


04608080

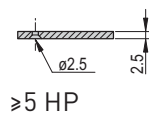
6 U



04608079

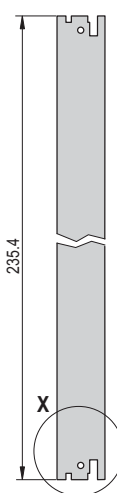
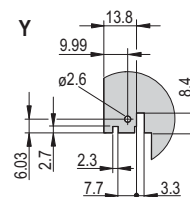
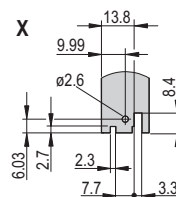


4 HP

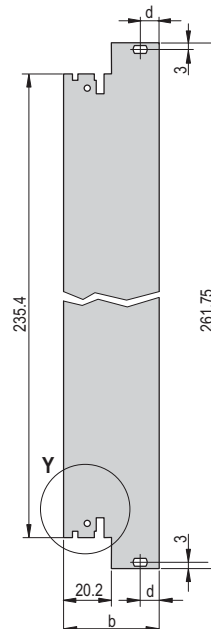


≥5 HP

04608077



4 HP



≥5 HP

04608078

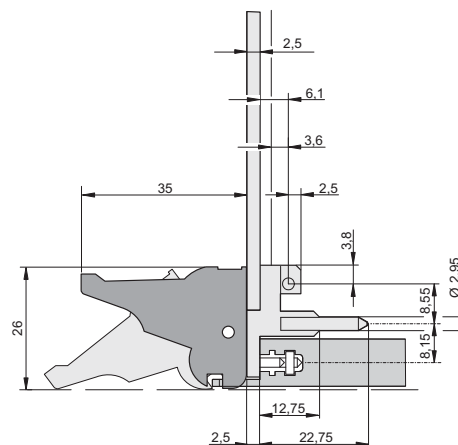
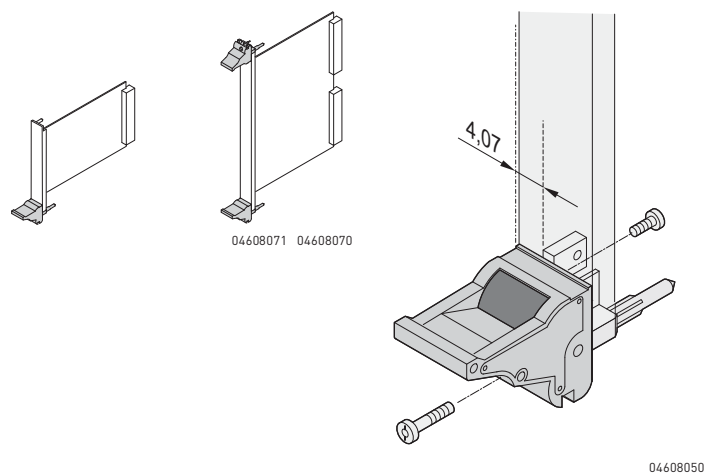
Dimensions table

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

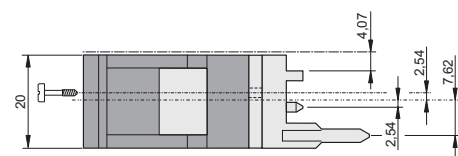
Dimensions

Inserter/extractor handle, type IEL



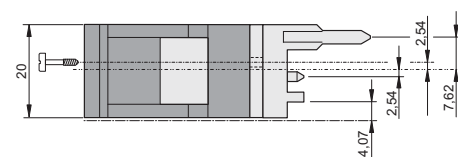
04603059

bottom



04607053

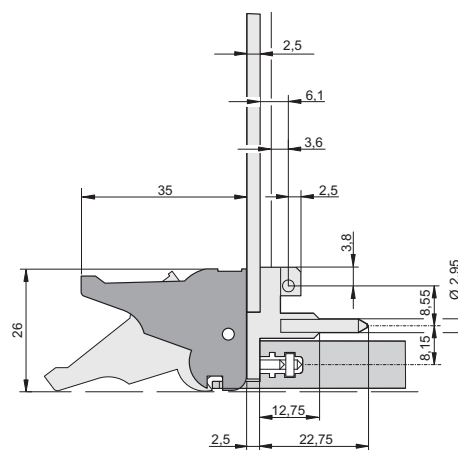
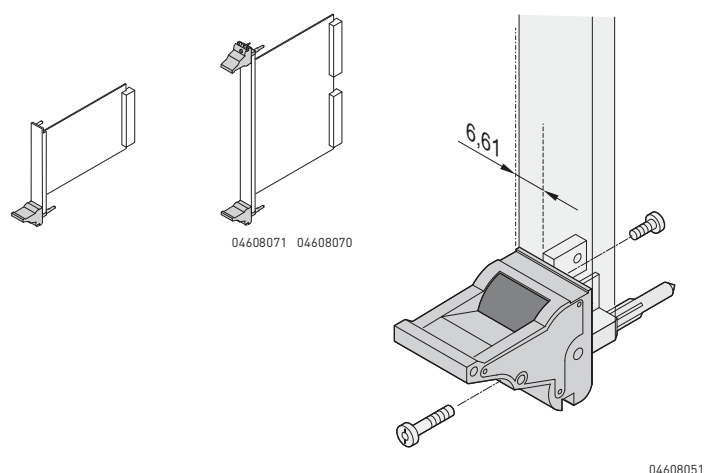
top



04607054

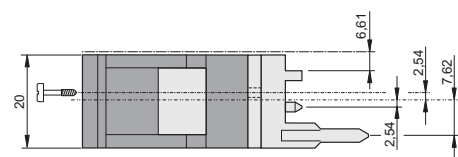
Dimensions

Inserter/extractor handle, type IEL, 0.1" offset



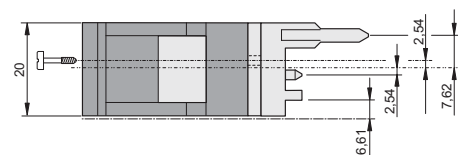
04603059

bottom



04603061

top

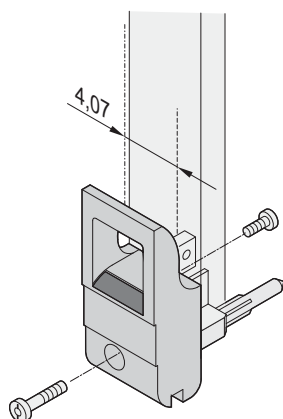
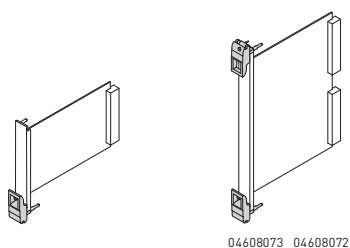


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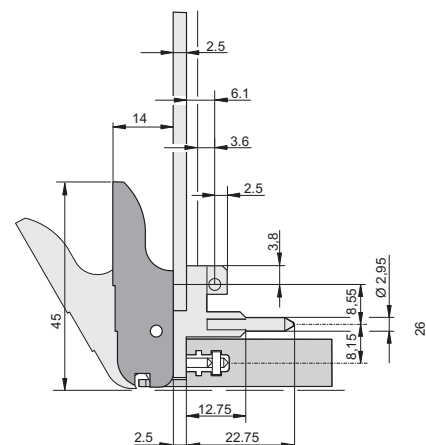
Plug-in units – for CompactPCI, VME64x

Dimensions

Insertion/extractor handle, type IET

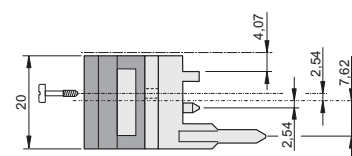


04608054



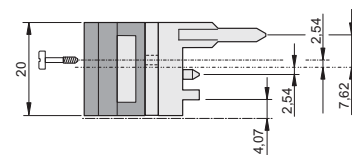
04603060

bottom



04607056

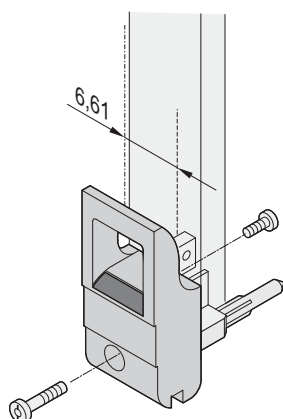
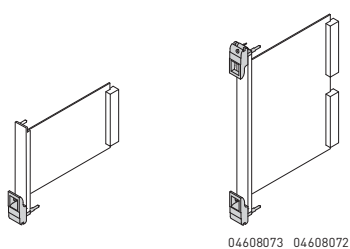
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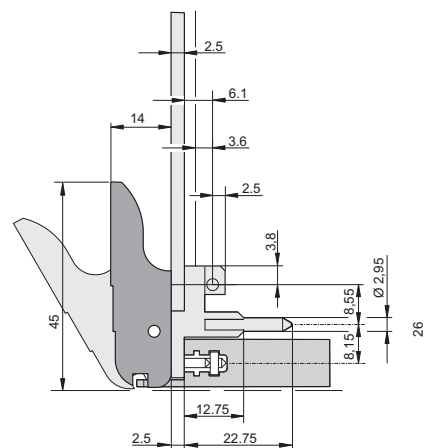
04607057

Dimensions

Insertion/extractor handle, type IET, 0.1" offset

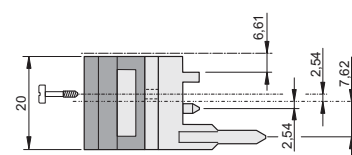


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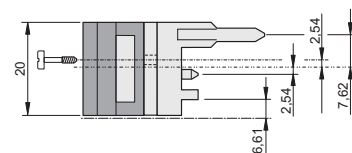
04603060

bottom



04603062

top



04607058

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

Plug-in units with XL insertion/extractor handle for CompactPCI, VME64x, VXS and VPX applications

- Suitable for insertion and extraction forces up to 1500 N (per pair)
- To IEEE 1101.10 and IEC 60297-3-102
- Codable to IEC 60297-3-103/ IEEE 1101.10
- Front panel, shielded (6 U)
- Versions allowing microswitches to be fitted on request
- Online download of 3D CAD data

NEW

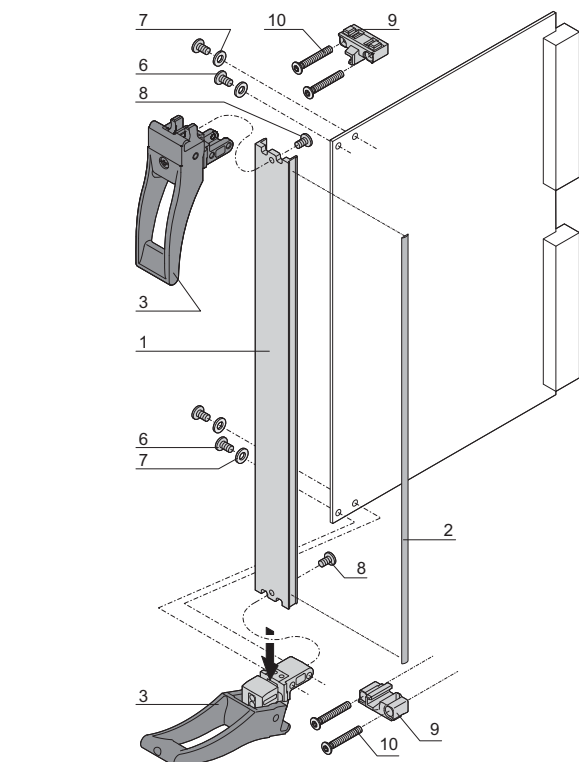
Delivery includes (Kit)

Item	Qty		Description
	<8 HP	≥8 HP	
1	1	1	Front panel (U profile), Al, front anodized, rear conductive
2	1	1	EMC sealing (textile), core: foam, sleeve: textile cladding, CuNi coated
3	2	2	Handle with integrated alignment pin for perforated strips and guide rails, lever: plastic, PC, black, RAL 9005 Key: Plastic, PC, light gray, RAL 7035
4	-	2	Sleeve, PA, gray
5	-	2	Pozidrive collar screw, M2.5 × 12.3, St, nickel-plated
6	4	4	Panhead screw with Torx/slot, M2.5 × 6, St, zinc-plated, self-locking
7	4	4	Washer A2.7, DIN 125, St, nickel-plated
8	4	4	Pan head screw with torx M2.5 × 7, St, zinc-plated
9	1	1	XL bearing, zinc diecast, nickel-plated
10	4	4	Countersunk screw with torx M2.5 × 17, St, zinc-plated

Order Information

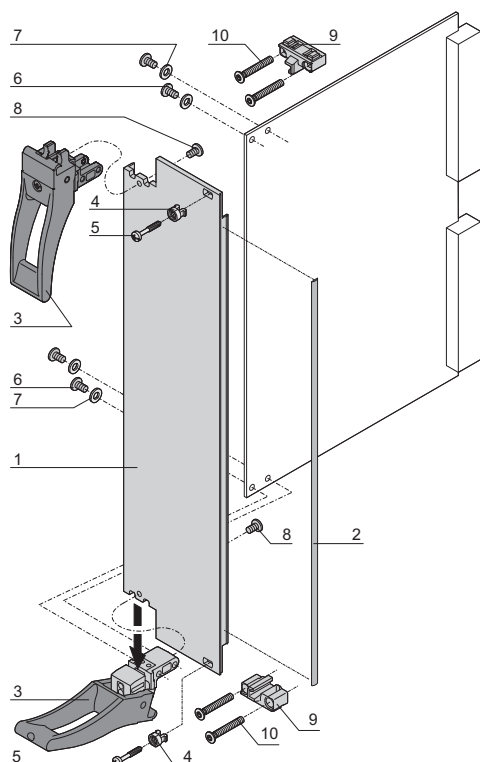
Width HP	Part no.
6 U Height	
4	20848-769
8	20848-770
12	20848-771

- Dimension drawing of front profile, see page 7.32



< 8 HP

04613055



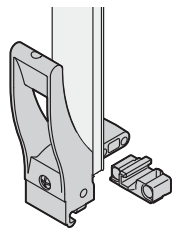
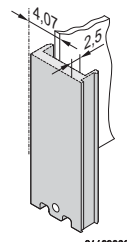
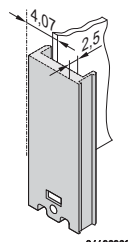
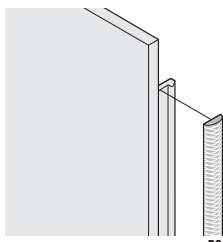
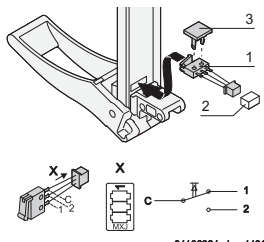
≥8 HP

04613056

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

Individual
components

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

	Insertor/extractor handle, type XL	U front profile, shieldable, for insertor/extractor handle, type XL		EMC gasket (textile)		Microswitch item 1 with cable and plug
		without cut-out for microswitch	with cut-out for microswitch			
 04405008	 04408081	 04408082	 04408083	 BGA45760	 04408084 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 7.37	Al, front anodised, sides and rear conductive for sleeve and collar screw see page 7.37	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	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 connector (item 2) e.g. Molex 53261-0319, 53048-0310, 53047-0310, 53398- 0319, 51047-0300, not included in scope of delivery	
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

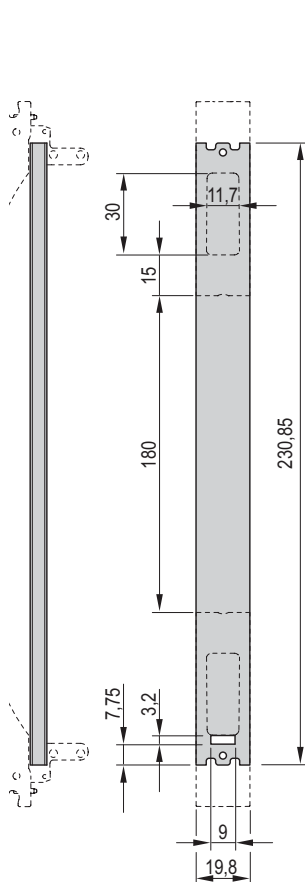
Dimensions

U front profile for extractor handle type XL, shieldable

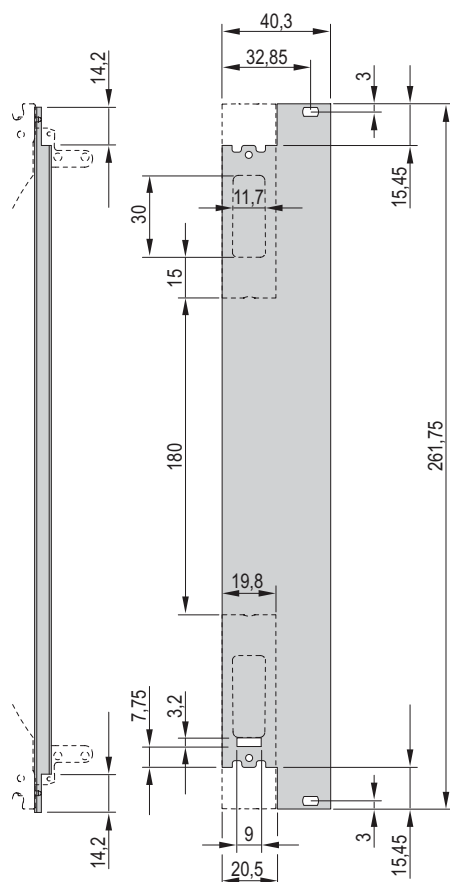
6 U/4 HP

6 U/8 HP

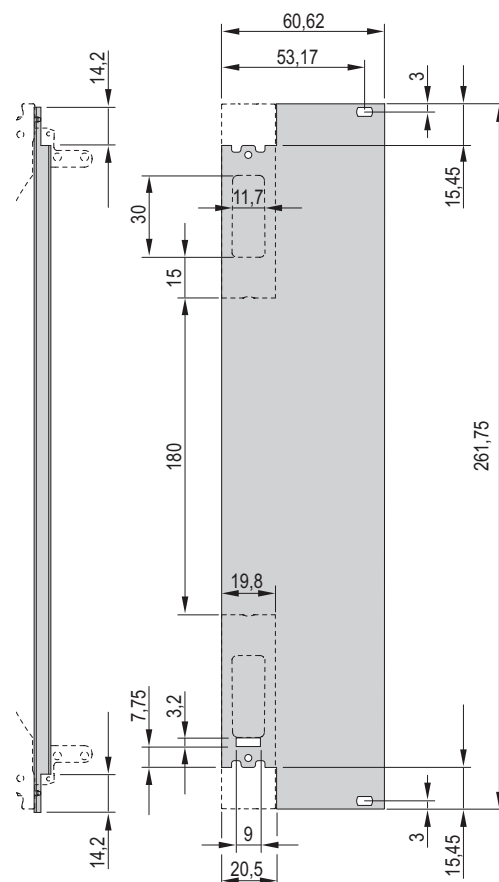
6 U/12 HP



04605053



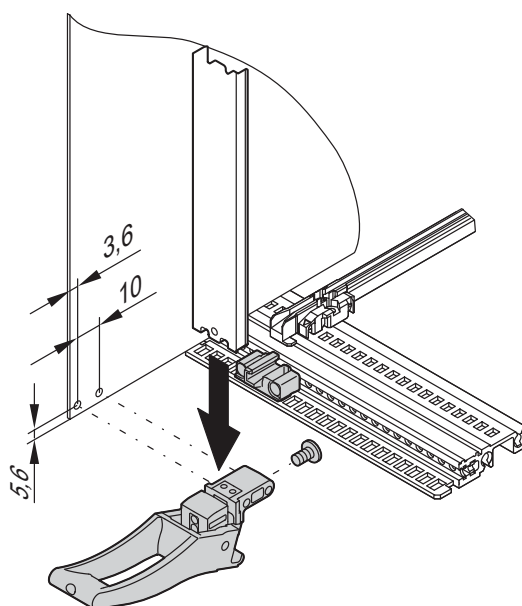
04605054



04605055

Dimensions

Insert/extractor handle, type XL



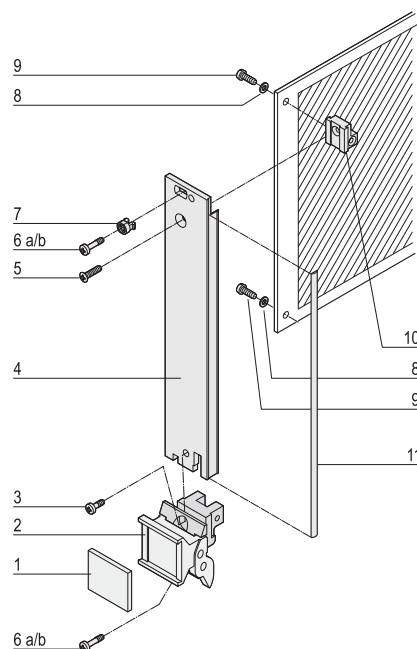
04608113

Plug-in units – for VME

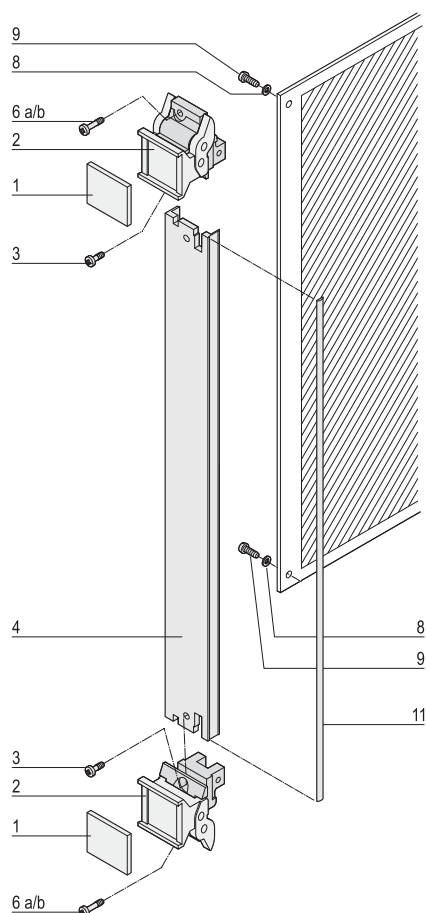
Kits

Plug-in units with trapeziform extractor handle, type 2

3 U



6 U



■ Shielded

Delivery comprises (kit)

Item	Qty				Description
	3 U		6 U		
	<8HP	≥8HP	<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 × 8, St, nickel-plated
6a	2	4	2	4	Pozidrive collar screw, M2.5 × 12.3, St, nickel-plated, collar screw, Pozidrive/slot, M2.5 × 11, St, nickel-plated,
6b	2	4	2	4	
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

04604050

Order Information

Height	Width	Part no.
U	HP	
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 7.38

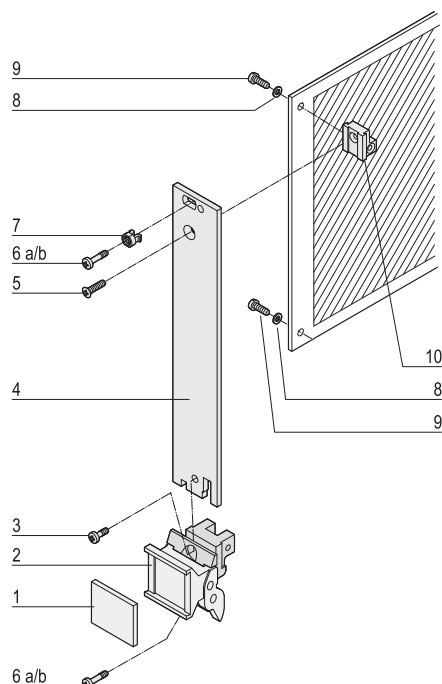
■ Description of microswitch see page 7.31

04604051

Plug-in units – for VME

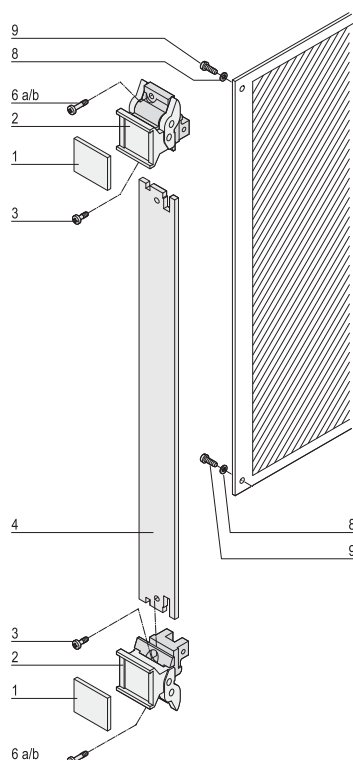
Kits

3 U



04604052

6 U



04604053

Plug-in units with trapeziform extractor handle, type 2

■ 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	Slotted Pozidrive collar screw, M2.5 x 12.3, St, nickel-plated,
6b	2	4	2	4	slotted 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 7.38

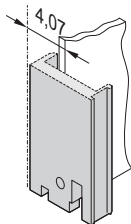
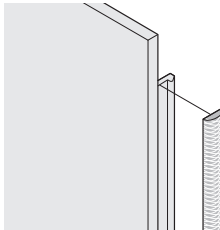
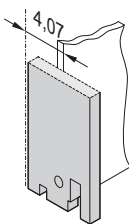
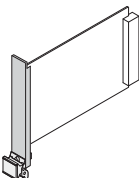
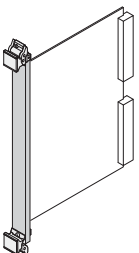
■ Description of microswitch see page 7.31

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	7.38		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

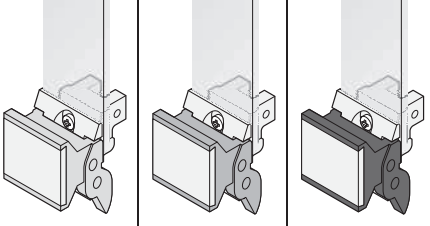
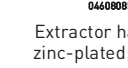
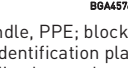
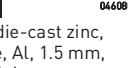
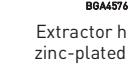
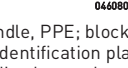
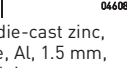
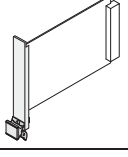
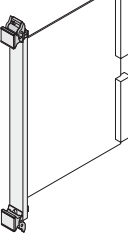
Part no. includes one packing unit (PU); delivery is exclusively made in PU

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
	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,		
Width HP	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	7.39			7.39		

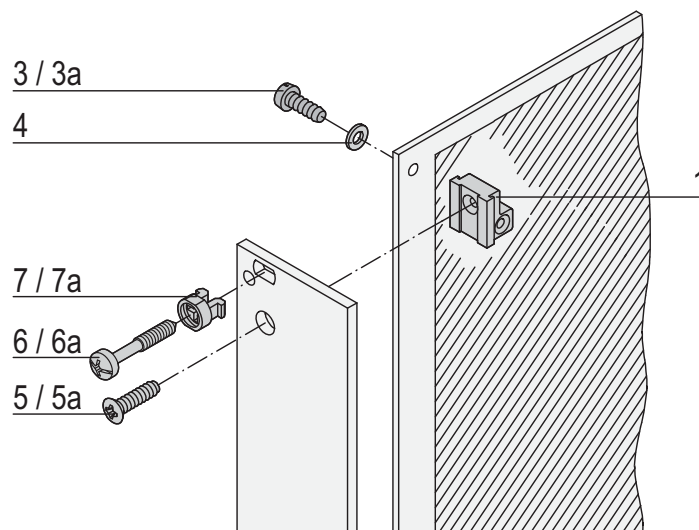
1) SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple
Part no. includes one packing unit (PU); delivery is exclusively made in PU

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

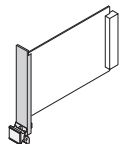
1) SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple

Plug-in units – for VME

Dimensions

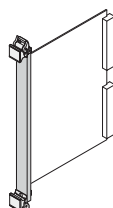
Front panels, U profiles, for trapeziform extractor handles, type 2

3 U

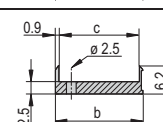
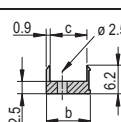
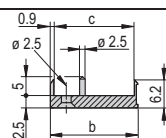
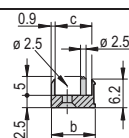
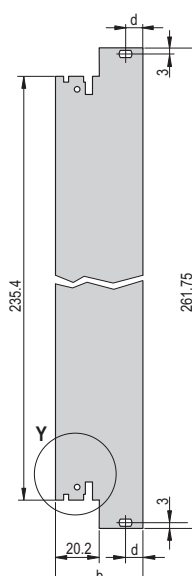
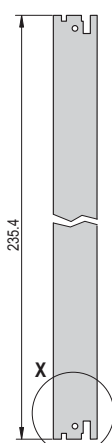
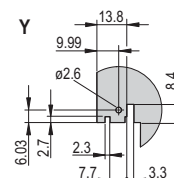
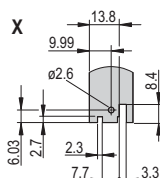
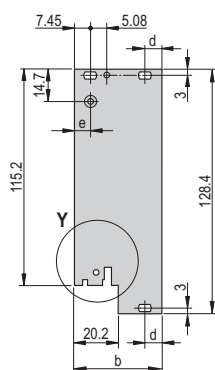
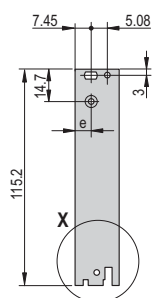
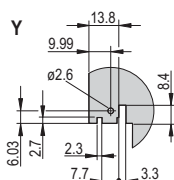
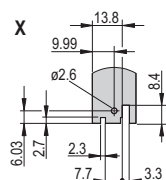


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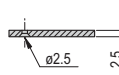
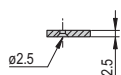
6 U



04608107



shieldable



unshielded

4 HP

≥5 HP

04608064 04608077

4 HP

≥5 HP

04608065 04608078

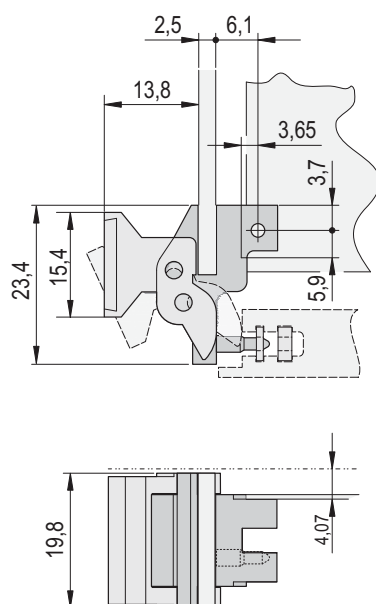
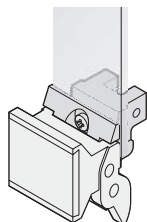
Dimensions table

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

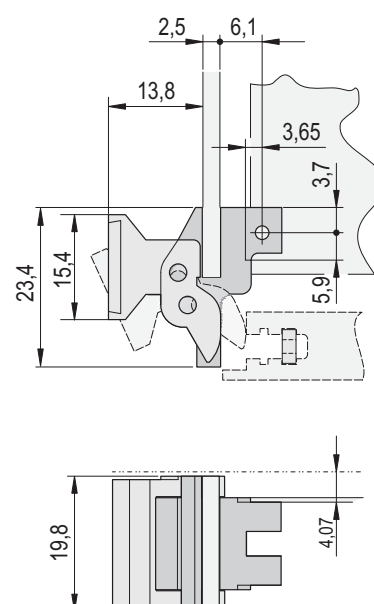
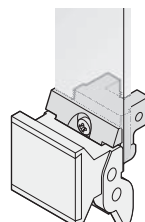
Plug-in units – for VME

Dimension drawings Extractor handle, trapeziform, type 2

with alignment pin



without alignment pin

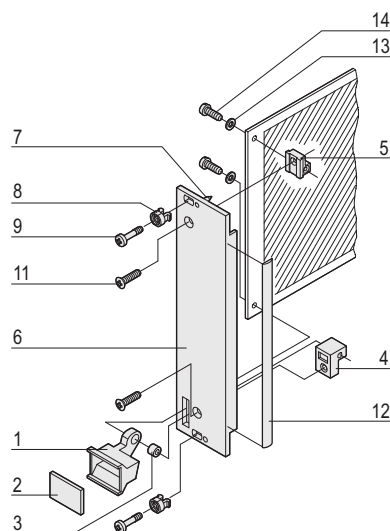


Plug-in units – for VME

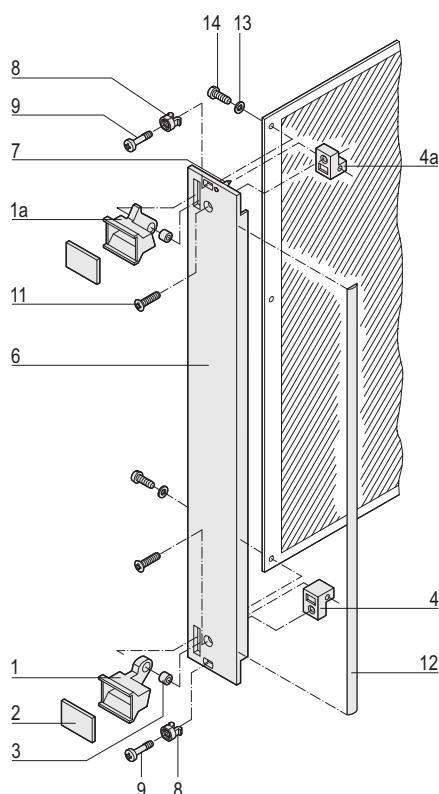
Kits

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

3 U



6 U



04602058

04602059

- 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

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

Note

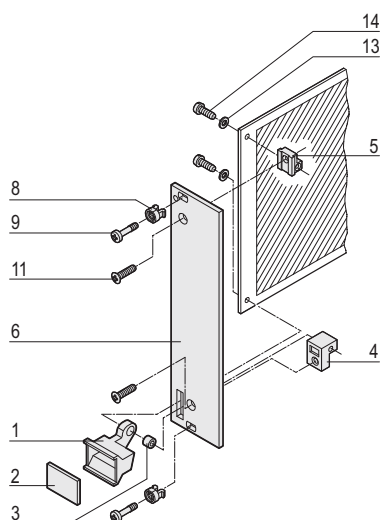
- Dimension front panel see page 7.45

Plug-in units – for VME

Kits

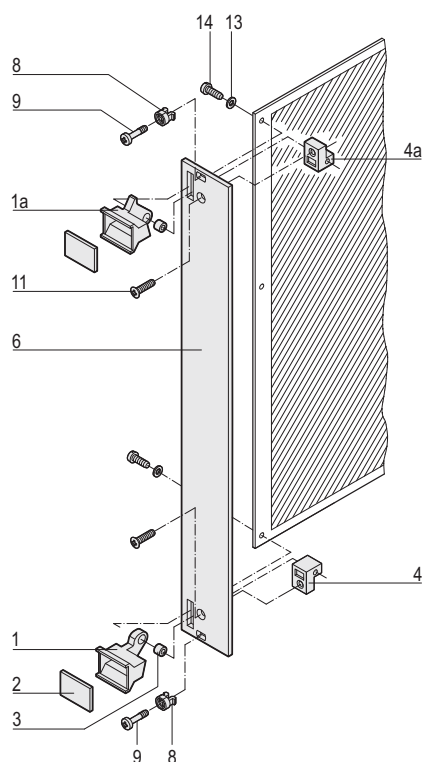
Plug-in units with trapeziform extractor handle, type 1 – front panel unshielded

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		Description
	3 U	6 U	
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 HP	3 U	6 U
	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

Note

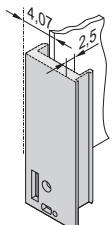
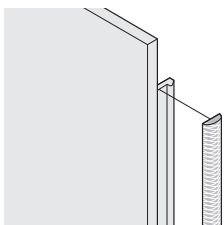
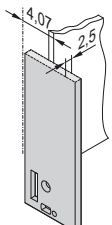
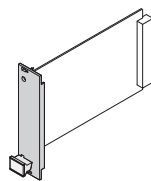
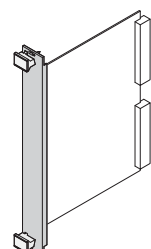
- Dimension front panel see page 7.45

Plug-in units – for VME

Individual components

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

Order Information

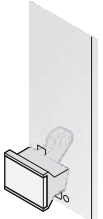
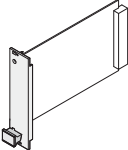
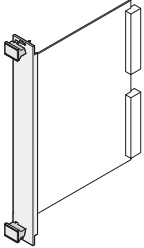
		Front panel, U profile, shieldable  04608091 Al profile, front anodised, rear conductive, alignment pin pressed-in, stainless steel	Textile EMC gasket  BGA45760 always fixed laterally on the front panel, in the groove of the profile, textile gasket, core: foam, sleeve: textile cladding with CuNi coating, 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		7.45			7.45

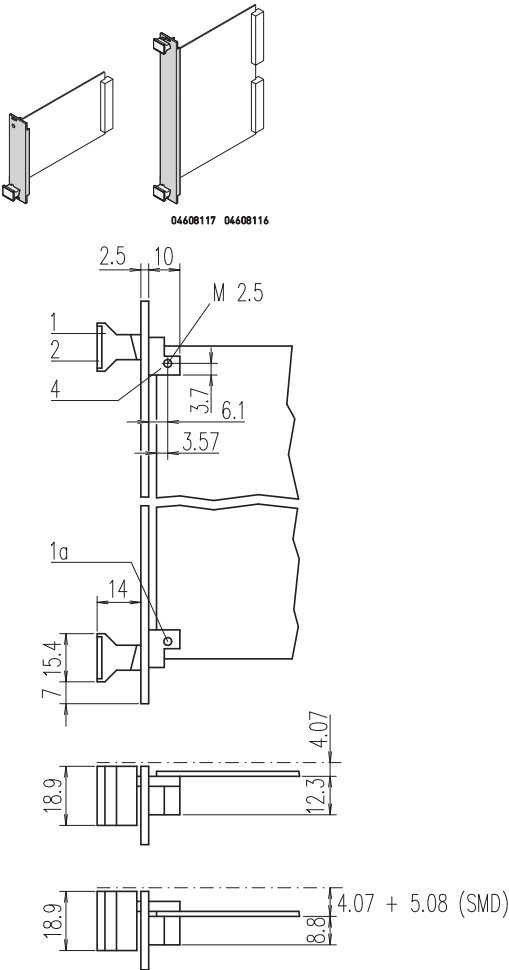
1) SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple
Part no. includes one packing unit (PU); delivery is exclusively made in PU

Plug-in units – for 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

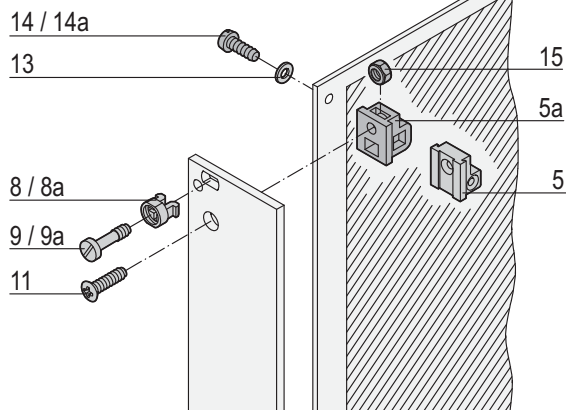
bga42556

Plug-in units – for VME

Individual components

Fixing material for trapeziform extractor handle, type 1

Order Information



bga42545

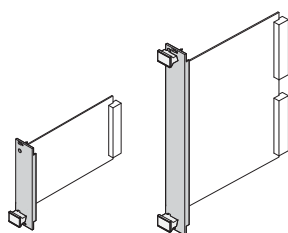
Fixing material	Item		Required Qty				Qty/PU	Part no.
			3 U		6 U			
			< 8 HP	≥ 8 HP	< 8 HP	≥ 8 HP		
Board support, die-cast zinc, with thread M2.5, for front panel and PCB fixing	5	 06707050	1	2	2	4	1 piece (SPQ 10) ¹⁾	60807-181
Board support, plastic, PBT, UL 94 V-0, grey, with recess for hexagon 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

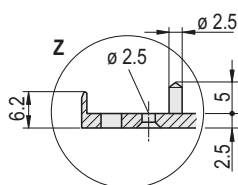
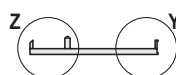
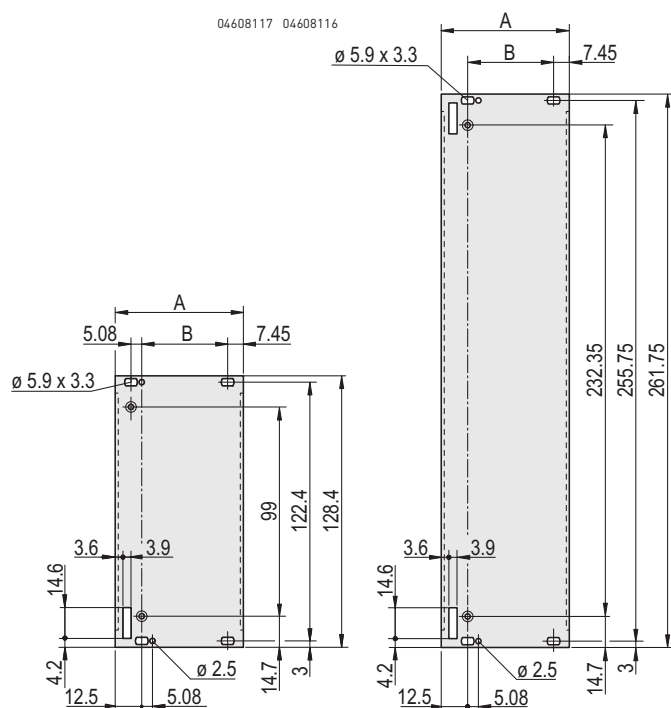
Plug-in units – for VME

Dimensions

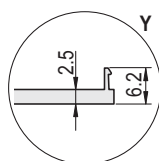
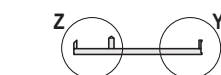
Front panels for trapezoidal extractor handles, type 1, shielded/unshielded



04608117 04608116

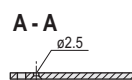
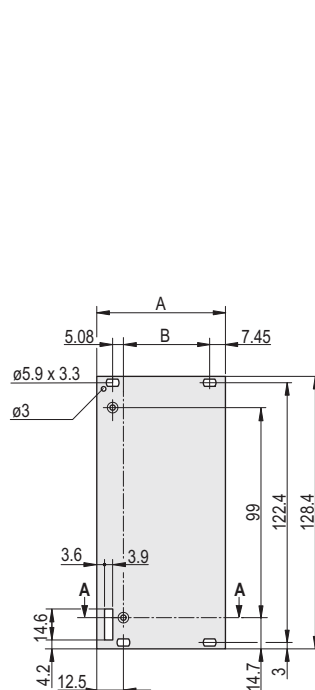


3 U

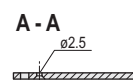
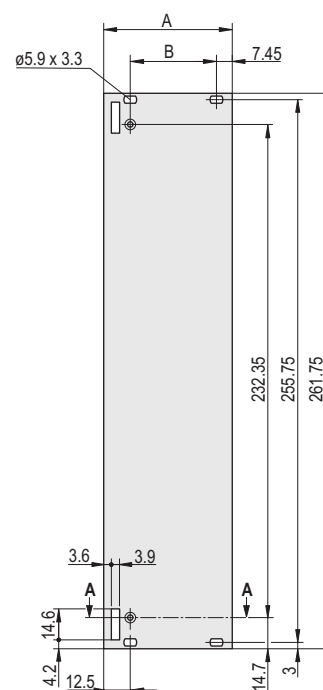


6 U

04603054



3 U



6 U

04603063

Dimensions table

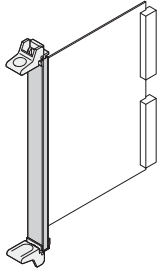
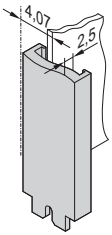
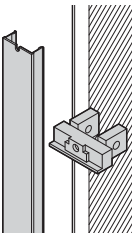
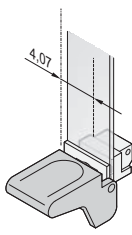
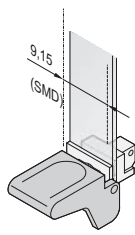
Width HP	A mm	B mm
4	19.98	–
5	25.06	–
6	30.14	–
7	35.22	–
8	40.30	20.32
10	50.46	30.48
12	60.62	40.64

Plug-in units – for Multibus II

Individual
components

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

Order Information

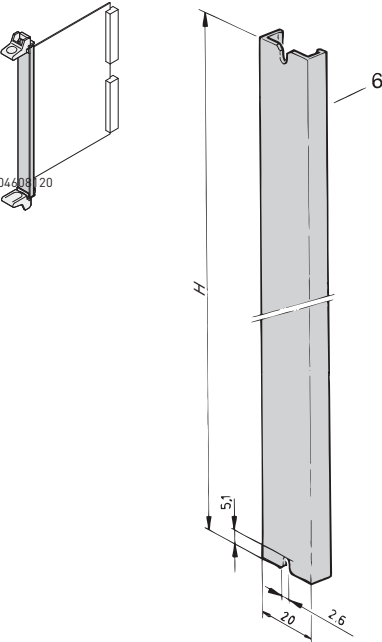
	Width HP	U front profile	Mounting block for D-Sub connector (50 pin)	Extractor handle for Multibus® II	
				symmetrical handle grey, RAL 7032	SMD handle grey, RAL 7032
		 Al extrusion, 1 mm 04608095	 for fixing D-Sub connectors 50-pin, thread on front UNC4/40; required quantity: for 6 U 1x, for 9 U 2x 04608098	 04608099	 04608108
		1 piece (SPQ 5) ¹⁾	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾
		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		7.47	7.47	7.47	7.47

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

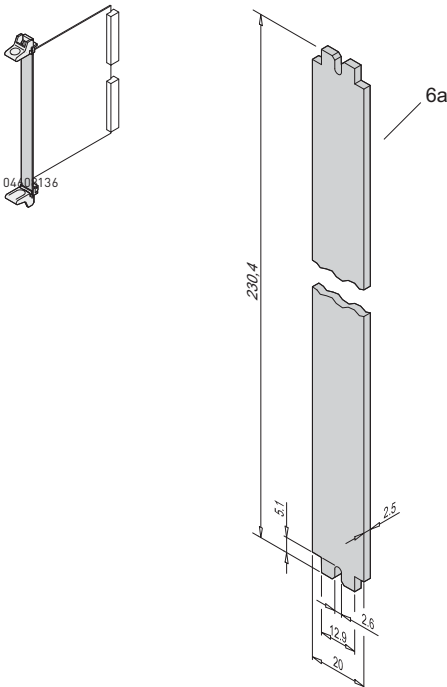
Plug-in units – for Multibus II

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

6/9 U



6 U



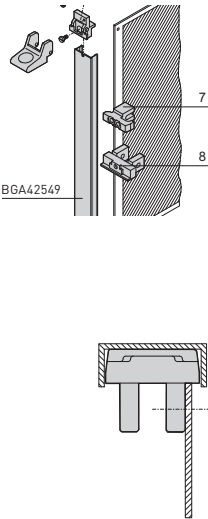
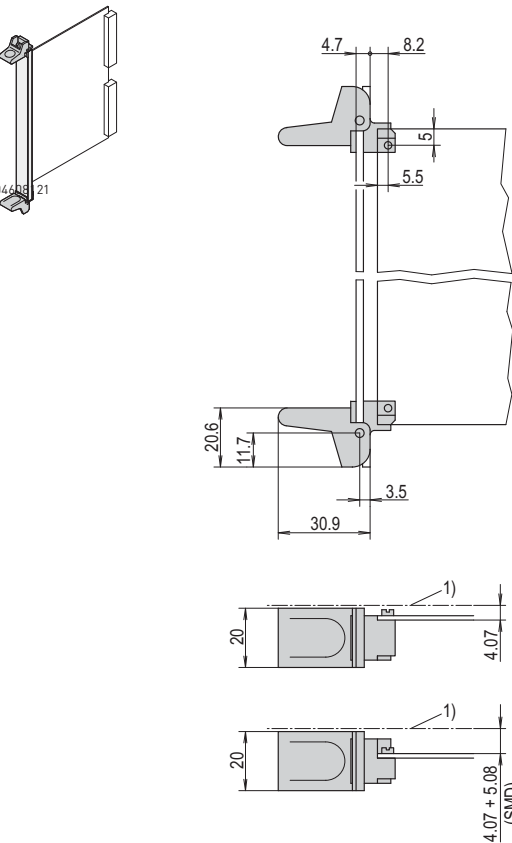
Dimensions table

Height U	Height mm
6	230.4
9	363.7

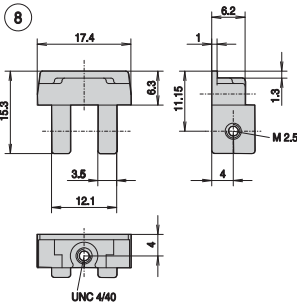
A4-2580

BGA46120

Dimensions Extractor handles, mounting block for Multibus® II



for D-Sub connector (50 pin)



BGA42585

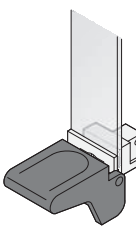
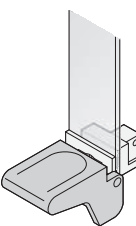
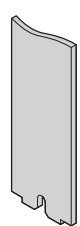
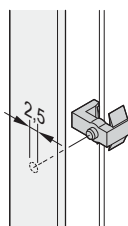
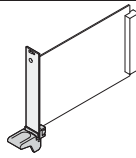
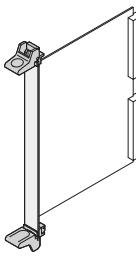
gba42579

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	7.50	7.50	7.50	

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

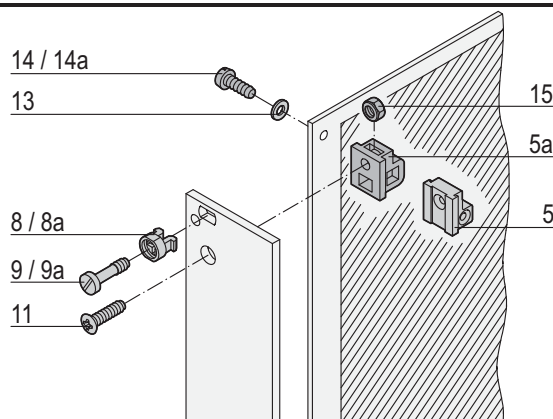
Part no. includes one packing unit (PU); delivery is exclusively made in PU

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

Individual
components

Fixing material for extractor handle in key form 1

Order Information



bge42545

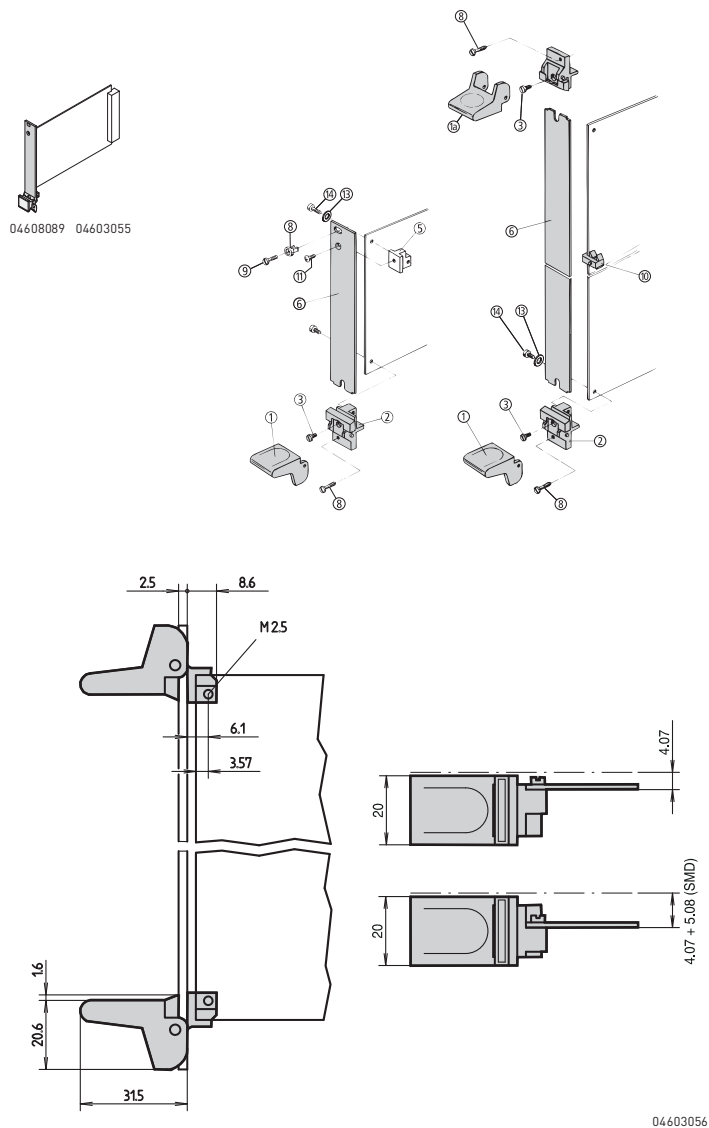
Fixing material	Item		Required Qty		Qty/PU	Part no.
			3 U	6 U		
Board support, die-cast zinc, with thread M2.5, for front panel and PCB fixing	5		1	–	1 piece (SPQ 10) ¹⁾	60807-181
Board support, plastic, PBT, UL 94 V-0, grey, with recess for hexagon nut M2.5, for fixing front panel	5a		1	–	1 piece (SPQ 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
Pan head 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	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

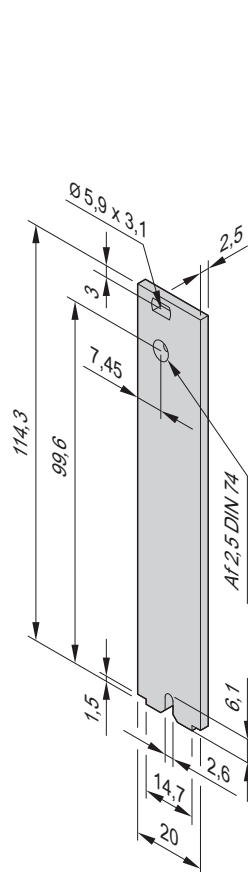
Plug-in units – for IEC 60297, key form 1

Dimensions

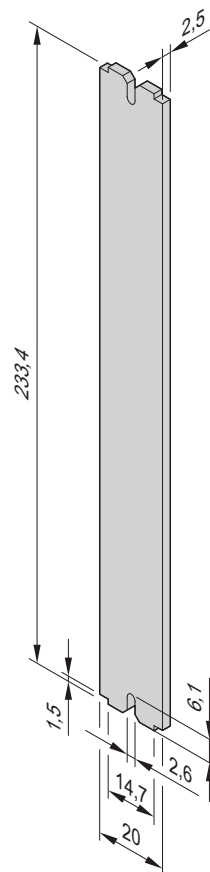
Extractor handles/front panels key form 1



04603056



3 U



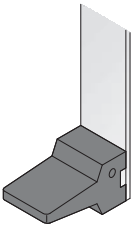
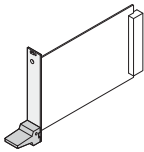
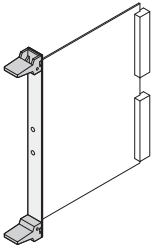
6 U

04603057

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

Individual components Extractor handles in key form 2

Order Information

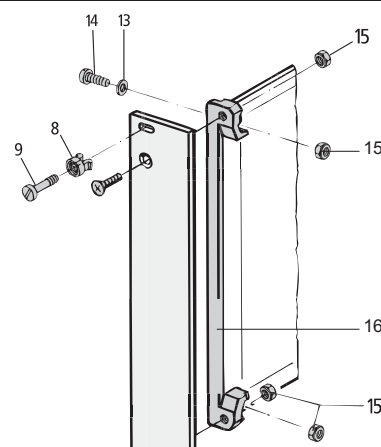
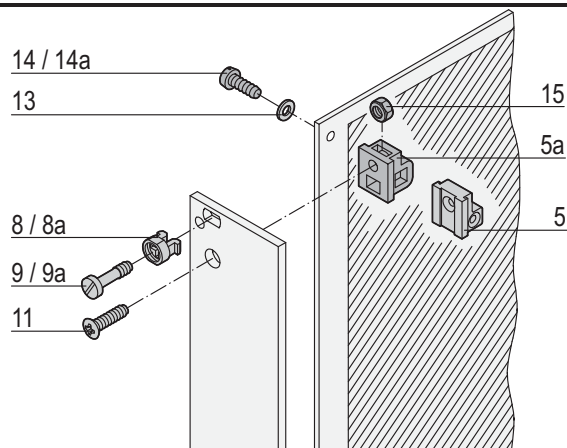
	Extractor handle black  04608104 extractor handle, PBT, UL 90 V-0; bearing Zn die-cast, nickel-plated; incl. assembly kit for handle mounting 1 piece (SPQ 10)¹⁾	Front panel  04608106 Al, 2.5 mm; available on request
Width HP  04608124  04608125	3 U Height top	
	20808-137	–
	6 U Height top	
	20808-137	–
	bottom	
	20808-137	–
Dimensions see page	7.53	7.53

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



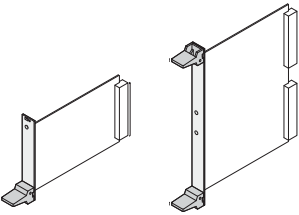
bga42545 04608137

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-0, red	16		1	2	1 piece (SPQ 10)	60807-011

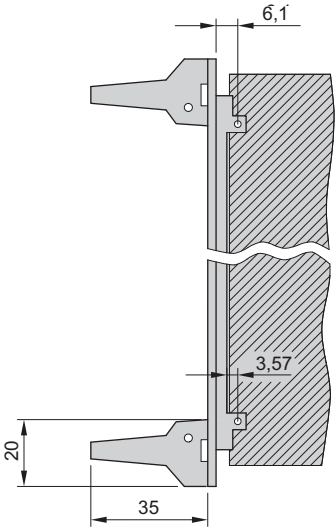
1) SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple

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

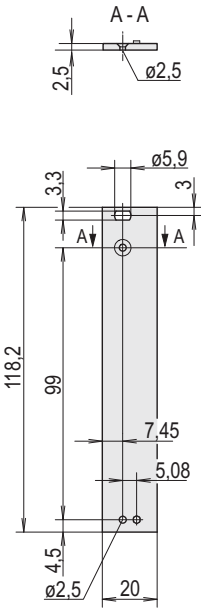
Dimensions Handles/front panels key form 2



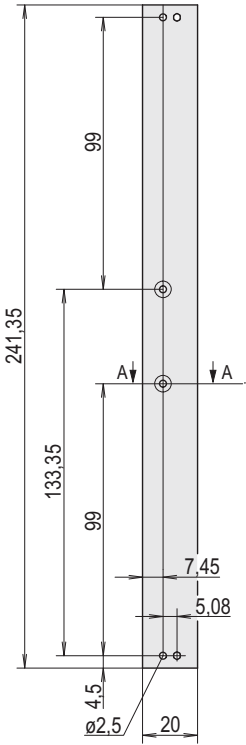
04608124 04608125



BGA42573



3 U

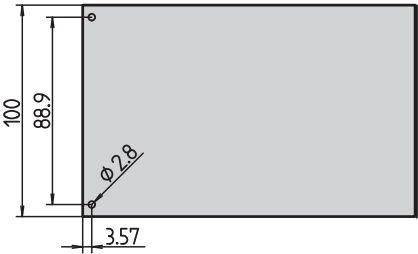


6 U

BGA42578

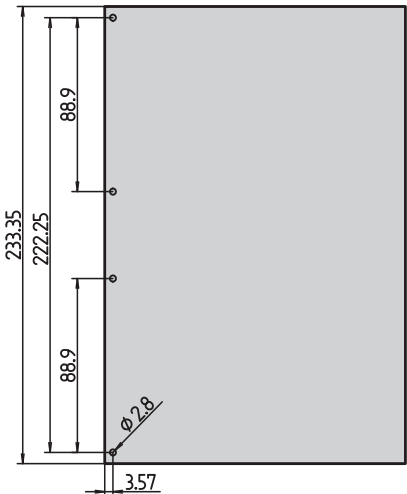
Dimensions Drill hole dimensions on the PCB key form 2

3 U



BGA43076

6 U



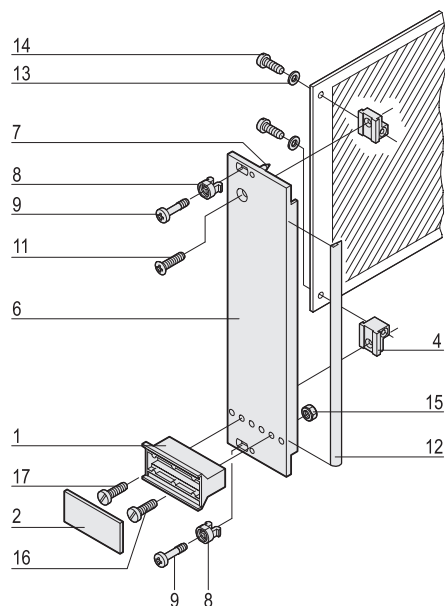
BGA43077

Plug-in units – for IEC 60297, trapeziform

Kits

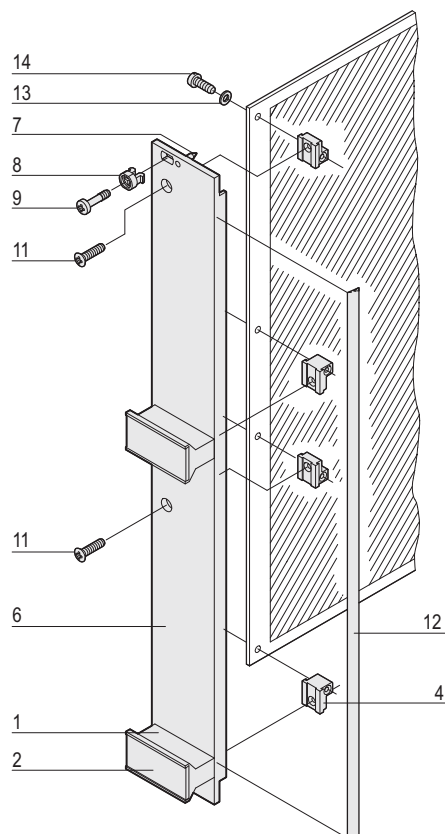
Plug-in unit with static trapeziform handle

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

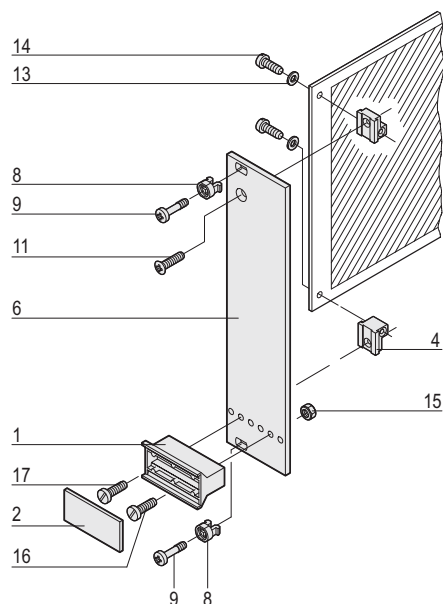
Width	3 U	6 U
HP	Part no.	Part no.
3	20848-663	20848-671
4	20848-664	20848-672
5	20848-665	20848-673
6	20848-666	20848-674
7	20848-667	20848-675
8	20848-668	20848-676
10	20848-669	20848-677
12	20848-670	20848-678

Plug-in units – for IEC 60297, trapeziform

Kits

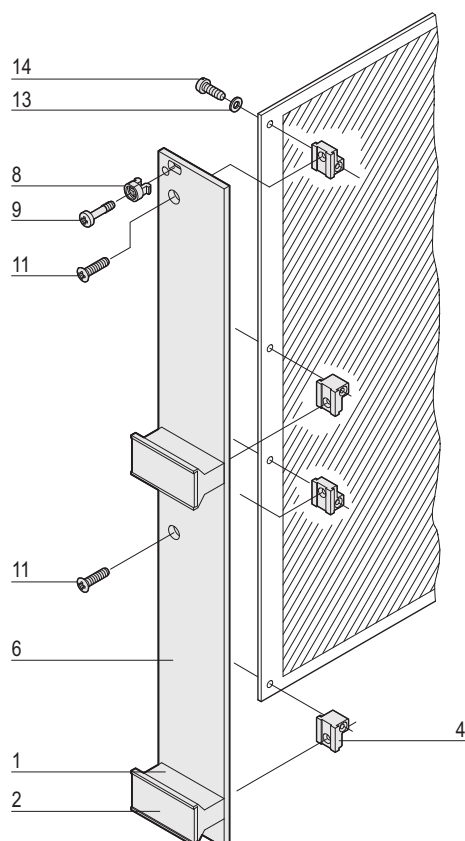
Plug-in unit with static trapeziform handle

3 U



04602064

6 U



04602065

- 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/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
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

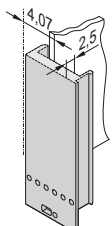
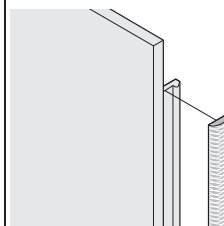
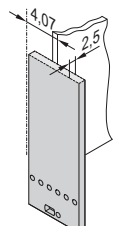
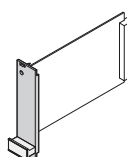
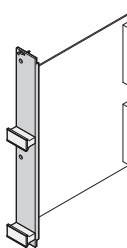
Width	3 U	6 U
HP	Part no.	Part no.
3	20818-017	20809-507
4	20818-018	20818-025
5	20818-019	20818-026
6	20818-020	20818-027
7	20818-021	20818-162
8	20818-022	20818-028
10	20818-023	20818-029
12	20818-024	20818-120

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	 bga45740 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	21101-853	21101-854	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
6 U Height					
 04608127	3	30849-097	21101-855	21101-856	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			-
Dimensions see page	7.60				7.60

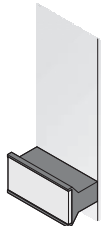
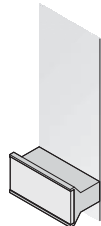
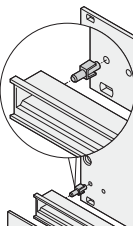
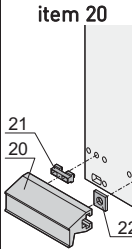
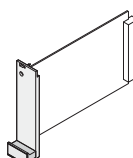
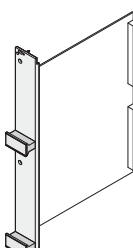
¹⁾ SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple
Part no. includes one packing unit (PU); delivery is exclusively made in PU

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	 04608064	 item 20 04608134	 item 21 04608135	 item 22 06707050
	handle: PPE, UL 94 V-1; identification plate: Al, 1.5 mm, anodized, cut edges plain; please order clip separately; 3, 4 HP each have 2 alignment pins; 5 ... 42 TE have no alignment pins; required qty: 1 handle for 3 HE 2 handles for 6 HE		clip, PPE, UL 94 V-0, black	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						
	3	20809-396	20809-294	–	20809-281	
	4	20809-397	20809-295	–	20809-282	
	5	20808-080	20808-003	21101-239	20809-283	
	6	20808-081	20808-060	21101-239	20809-284	
	7	20808-082	20808-061	21101-239	20809-285	
	8	20808-083	20808-062	21101-239	20809-286	
	9	20808-084	20808-063	21101-239	20809-287	
	10	20808-085	20808-004	21101-239	20809-288	
	12	20808-086	20808-064	21101-239	20809-289	
	14	20808-087	20808-065	21101-239	20809-290	
	21	20808-088	20808-066	21101-239	20809-291	
	28	20808-089	20808-067	21101-239	20809-292	
	40	20808-090	20808-009	21101-239	–	
	42	20808-091	20808-068	21101-239	20809-293	
 04608128 04608129	61	20808-092	20808-012	–	–	
	1000 mm	–	–	–	30809-428	21100-359
Fixing material see page	7.59 Item 15, 16, 17					
Dimensions see page	7.59	7.59		7.59	7.59	7.59

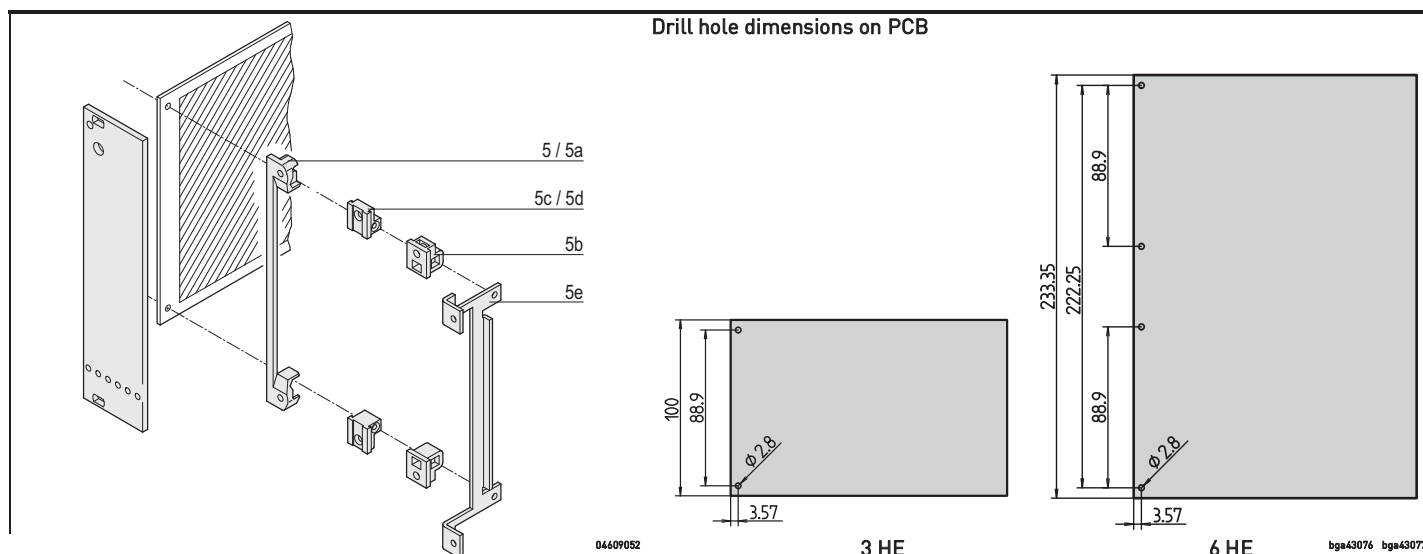
1) SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ);
please order at least the SPQ quantity or a multiple

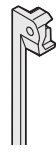
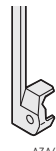
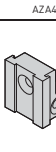
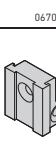
Part no. includes one packing unit (PU); delivery is exclusively made in PU

Plug-in units – for IEC 60297, trapeziform

Individual components

PCB bracket for static trapeziform handle



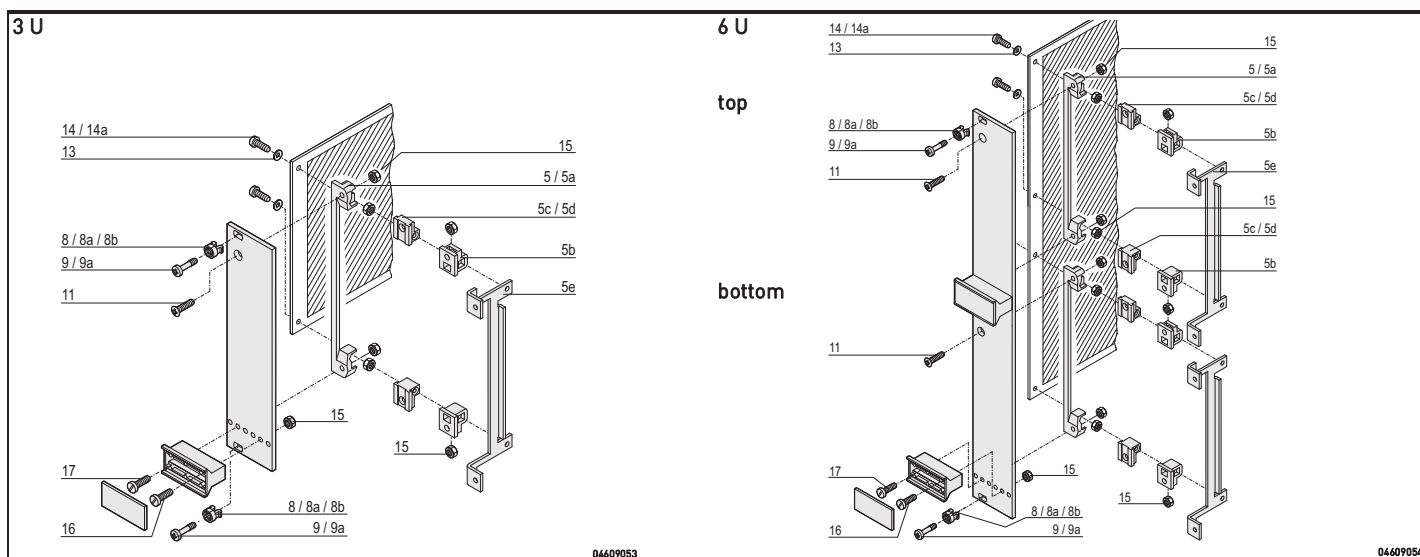
	Item		Required Qty		Qty/PU	Part no.
			3 U	6 U		
PCB bracket 4 clearance holes for front panel/PCB fixing, 4 recesses for hexagon nuts; PBT, UL 94 V-0, red	5		1	2	1 piece (SPQ 10) ¹⁾	60807-011
PCB bracket 4 threads M2.5 for front panel/PCB fixing, PBT, UL 94 V-0, grey, 1 piece	5a		1	2	1 piece (SPQ 10) 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		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		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		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		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

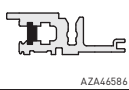
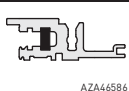
Individual components

Fixing material for static trapeziform handle



04609053

04609054

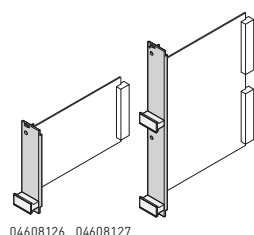
	Item		Required Qty				Qty/PU	Part no.
			3 U		6 U			
			< 8 HP	≥ 8 HP	< 8 HP	≥ 8 HP		
Plastic sleeve, for form hole 5.9 x 3.3 PA, UL 90 V-2, grey	8	 aza45933	2	4	2	4	100	21100-464
Metal sleeve, for form hole 5.9 x 3.3, press-in Stainless steal	8	 aza45934	2	4	2	4	100	21100-662
Metal sleeve, for form 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	 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	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	5 5b	 aza43239	4	4	8	8	100	21100-144
			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

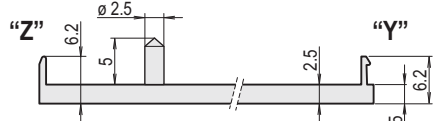
Plug-in units – for IEC 60297, trapeziform

Dimensions

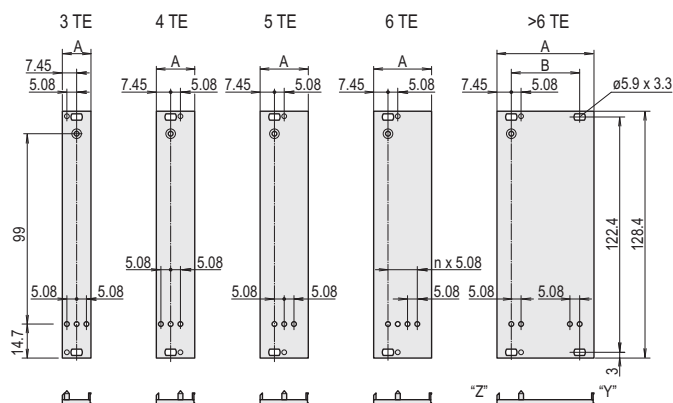
Front panels, U profile, shieldable for static trapeziform handle



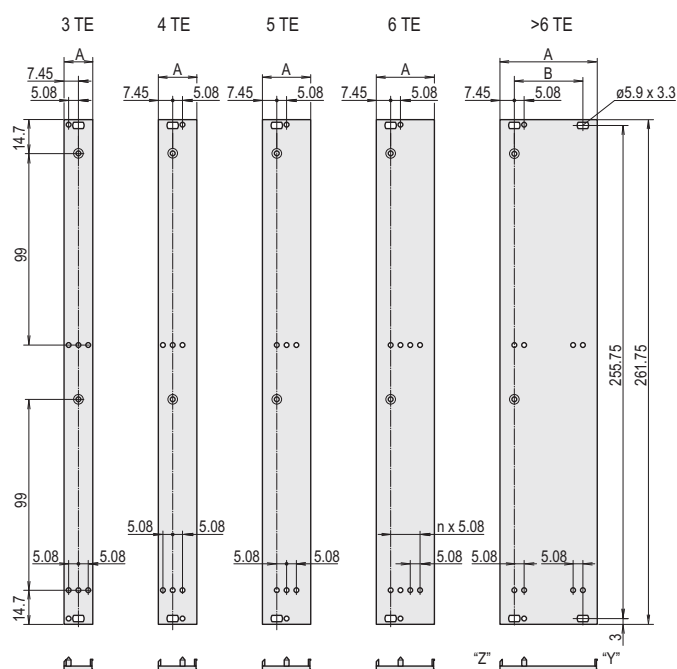
04608126 04608127



04608111



04603064



04608110

3 U

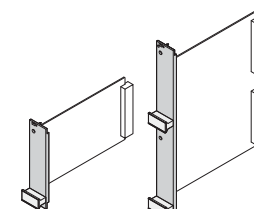
6 U

Dimensions table

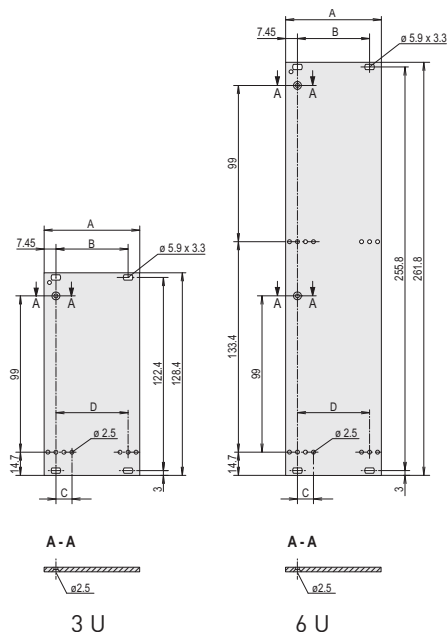
Width HP	A mm	B mm
3	14.90	-
4	19.98	-
5	25.06	-
6	30.14	-
7	35.22	-
8	40.30	25.40
10	50.46	35.56
12	60.62	45.72

Dimensions

Front panels for static trapeziform handle



04608126 04608127



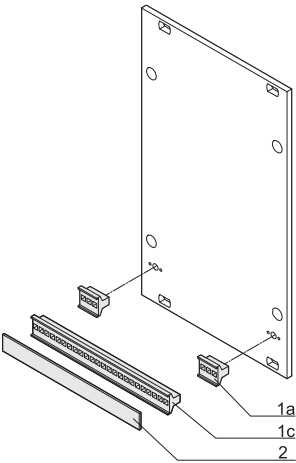
04603053

Dimensions table

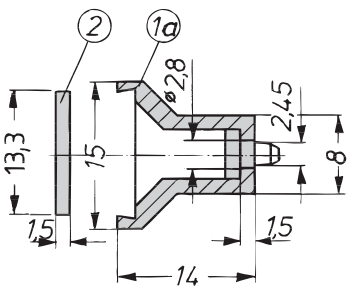
Width	A	B	C	D
HP	mm	mm	mm	mm
3	14.90	-	-	-
4	19.98	-	-	-
5	25.06	-	10.16	-
6	30.14	-	-	15.24
7	35.22	-	-	20.32
8	40.30	25.40	-	25.40
10	50.46	35.56	-	35.56
12	60.62	45.72	-	45.72

Plug-in units – for IEC 60297, trapeziform

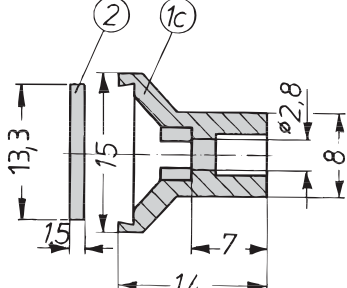
Dimensions Static plastic handles, trapeziform



BGA46447



A4--328a

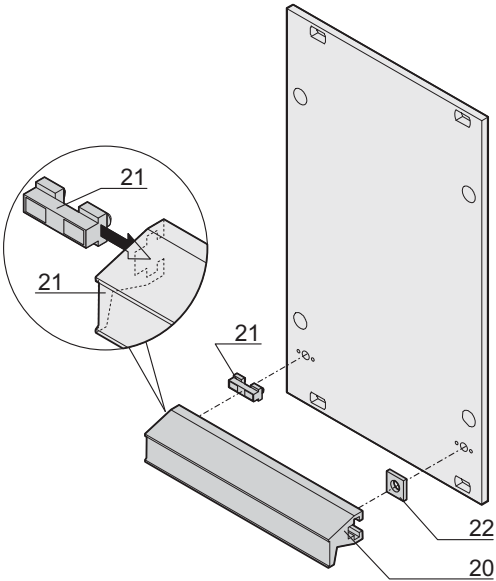


A4--328c

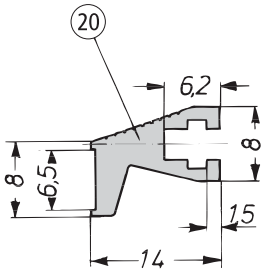
Dimensions table

Item	Width HP	Width 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



04602069



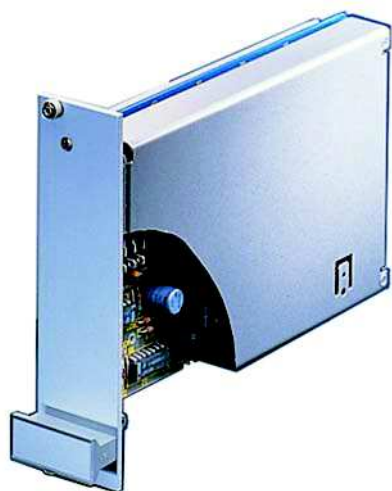
A4-328d

Dimensions table

Item	Width HP	Width 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



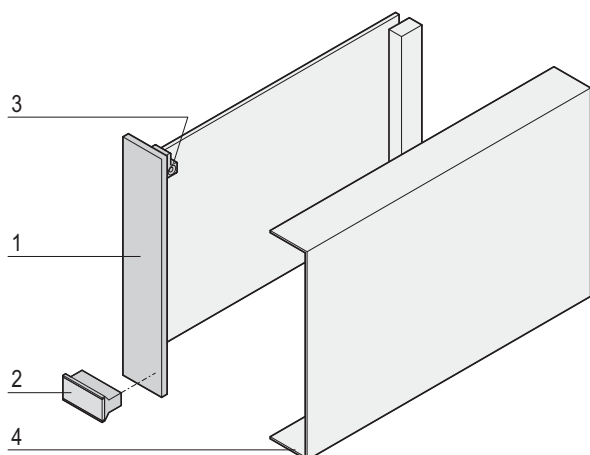
04692003

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: irisdescent 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

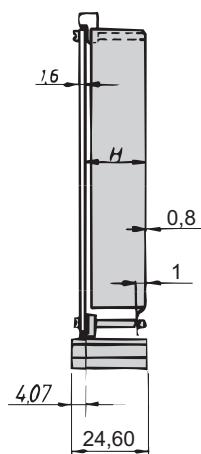
Item 4 Shielding panel
component side for 7 HP
front panel width, stainless
steel, 0.8 mm, 1 piece

20809-371

20809-371

Note

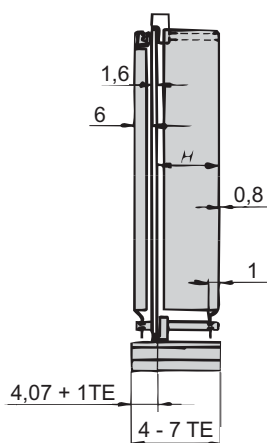
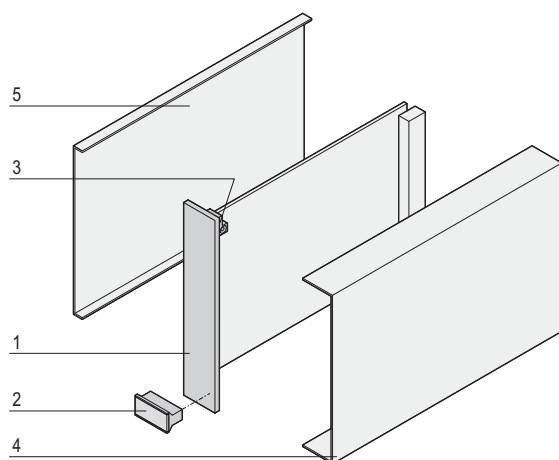
- Keying/coding with separate keying/coding strip is not possible
- Please order shielding plates separately



a4-237

Plug-in units – with mechanical shielding

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



04602078

a4-236a

- 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

Plug-in units – with mechanical shielding

PCB cover for euroboards

- Mechanical protection of the solder side

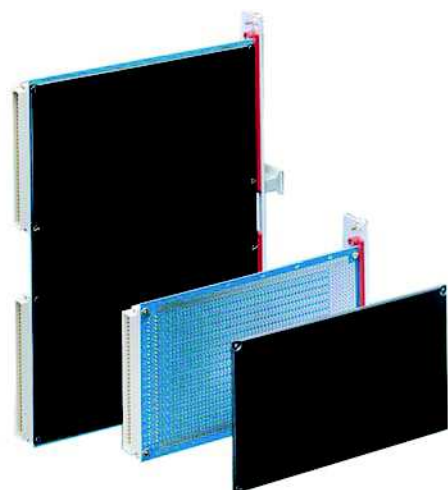
Order Information

Description	Qty	Part no.
PCB cover (thickness 0.9 mm) for euroboards (100 x 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 x 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 x 160 mm), PP, UL 94 V-0, black	1 piece (SPQ 10)	61000-012
Slotted flathead screw M2.5 x 6, height of head 1.2 mm, PU 100 pieces		21102-007
Slotted flathead screw M2.5 x 12, height of head 1.2 mm, PU 100 pieces		21102-008

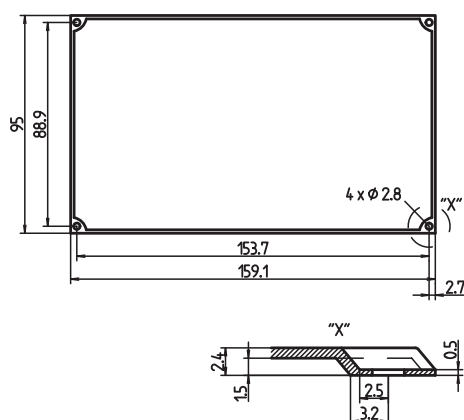
11092008

LKA40520

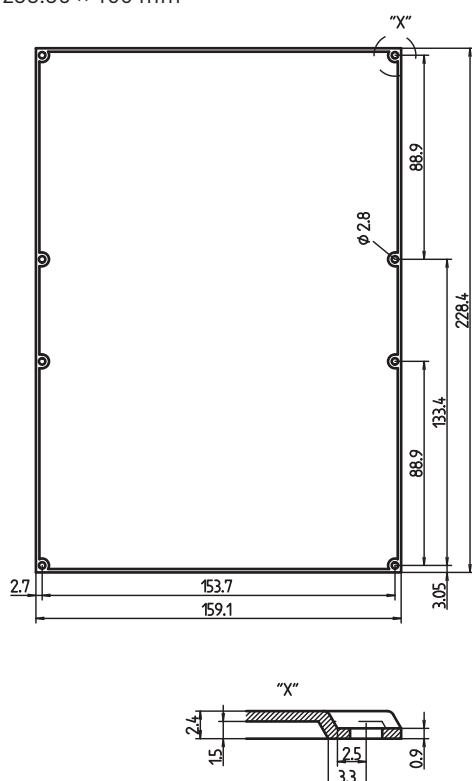
LKA30451



For PCBs 100 x 160 mm

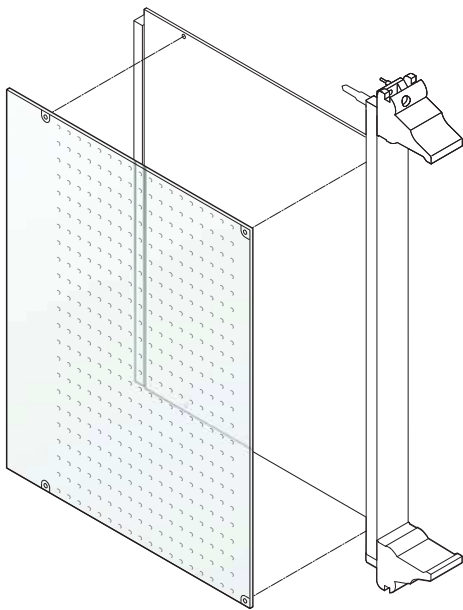


For PCBs 233.35 x 160 mm



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