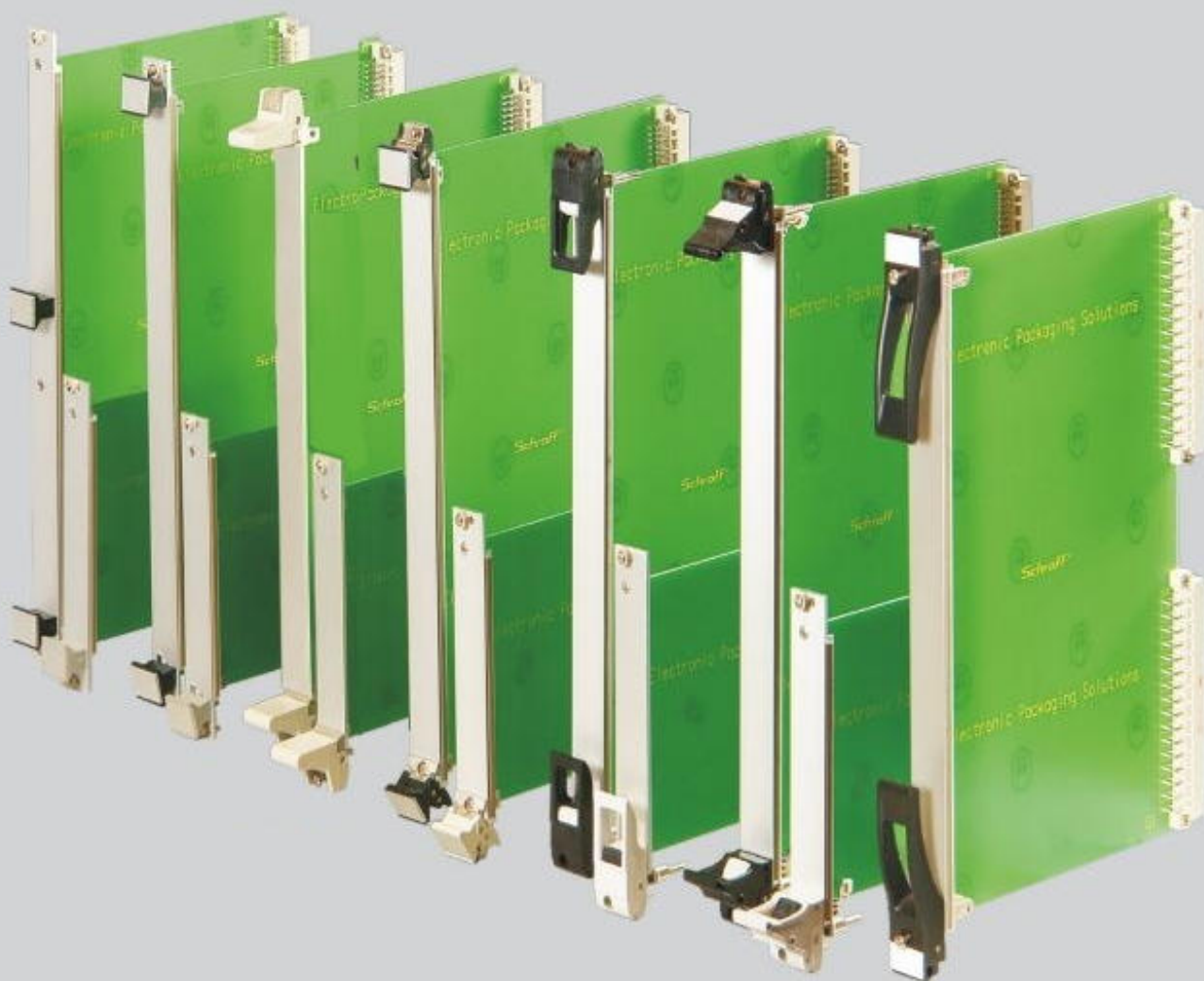




CONNECT AND PROTECT

Plug-in Units

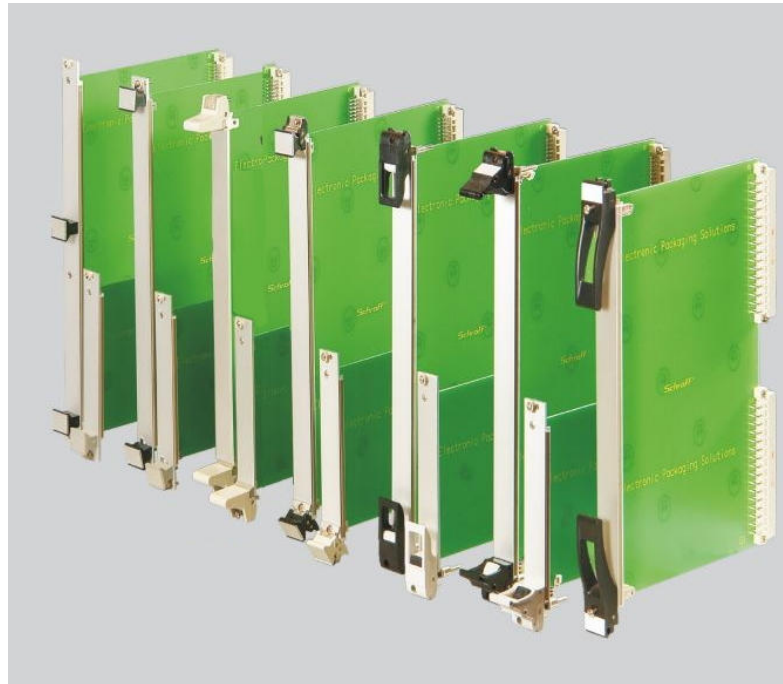
04/2023

Plug-in units – Plug-in units

OVERVIEW

MAIN KATALOG

Cabinets	1
Wall mounted cases	2
Accessories for cabinets and wall mounted cases	3
Climate control	4
Electronics cases	5
Subracks/ 19" chassis	6
Front panels, plug-in units	7
Systems	8
Power supply units	9
Backplanes	10
Connectors, front panel component system	11
Appendix	12



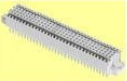
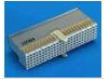
PLUG-IN UNITS AS KITS OR FROM INDIVIDUAL PARTS

- 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

WHICH HANDLE FOR WHICH OPEN STANDARD / CONNECTOR?

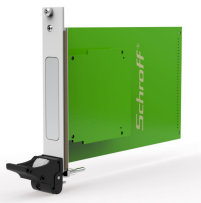
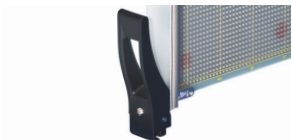
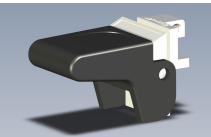
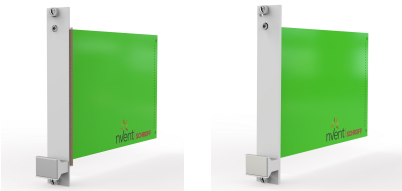
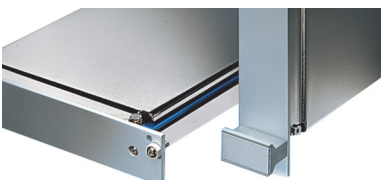
Standard	Connector	Picture of the connector	Qty of pins	Force	Picture handle	Suggested handle (PIU with handle)
VME	DIN connector conform with IEC 60603-2 (DIN 41612)		192	~ 180N		Static trapezoid handle, Type 1 and Type2
VME64x	DIN connector conform with IEC 60603-2 (DIN 41612)		415	~ 420N		Type IEL / IET
CompactPCI	Connector conform with IEC 61076-4-101 (Hard metric)		535	~ 610N		Type IEL / IET
CompactPCI Serial (CPCI-S.0)	Connector conform with CPCI-S.0 (Airmax VS)		1.128	~ 550N		Type IEL / IET
VXS	Connector conform with VITA 41 (Tyco MultiGig RT)		1.664	~ 1.250N		Type IEL / IET or XL
VPX	Connector conform with VITA 46 (Tyco MultiGig RT)		1.664	~ 1.250N		Type IEL / IET or XL

Remark: 6U board with two handles

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

Plug-in units – Plug-in units

Handles for plug-in units		Kit	Individual components	
		Page	Page	
	For CompactPCI and VME64x applications			Overview 7.17
	Insertor/extractor handle, type IEL/IET, allows keying/coding and insertion/extraction forces up to 700 N per pair	7.18	7.24	Plug-in units with injector and extractor handles
	For FMC and PMC Mezzanine			For CompactPCI and VME64x applications 7.18
	Insertor/extractor handle, type IEL, allows keying/coding and insertion/extraction forces up to 700 N per pair	7.20		For FMC and PMC applications 7.20
	For VPX, VXS, CompactPCI and VME64x applications			For VPX, VXS, CompactPCI and VME64x applications 7.34
	Insertor/extractor handle, type XL, allows keying/coding and insertion/extraction forces up to 1500 N per pair	7.34	7.35	
	For e.g. VMEbus applications			For e.g. VMEbus applications type 2 7.37
	Trapeziform extractor handle, type 2, up to 250 N/pair	7.37	7.39	
	For e.g. VMEbus applications			For e.g. VMEbus applications type 1 7.44
	Trapeziform extractor handle, type 1	7.44	7.51	
	For plug-in units in accordance with IEC 60297			For plug-in units in accordance with IEC 60297 7.50
	Extractor handle in key form 1	7.50		
	For plug-in units in accordance with IEC 60297			For plug-in units in accordance with IEC 60297 7.54
	Static handle	7.54	7.58	
	Accessories for plug-in units			Accessories for plug-in units 7.63
	Mechanical protection for static trapeziform handle and fixing materials kit	7.63	–	
				PCB cover 7.66

Plug-in units – for CompactPCI, VME64x

KITS

PLUG-IN UNITS WITH IEL INSERTER/EXTRACTOR HANDLE FOR COMPACTPCI/VME64X APPLICATIONS

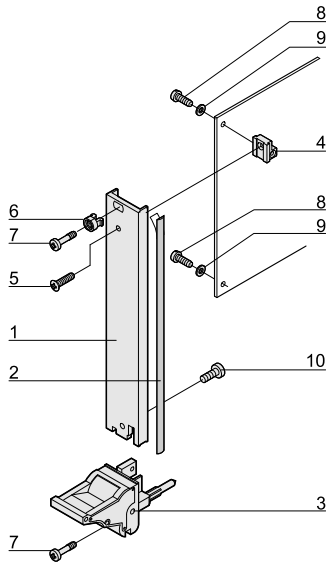


3U, Front Assembly

3U, Rear I / O

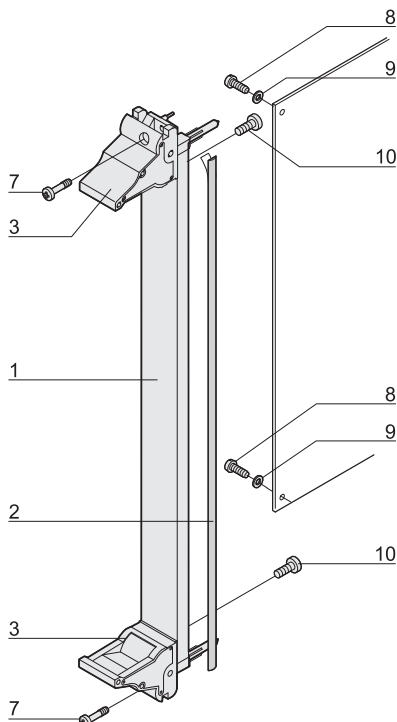
Remark: Delivery do not include the PCB

3U



04602073

6 U



04602074

- In accordance with IEEE 1101.10 and IEC 60297-3-102
- Codable to IEC 60297-3-103/ IEEE 1101.10
- Front panel shielded
- Suitable for insertion and extraction forces up to 700 N (per pair)
- Suitable for fitting microswitches
- **Plastic Material:**
UL 94 V0, EN 45545-2, R22 - R24, HL3

DELIVERY COMPRISES (kit)

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

ORDER INFORMATION

Width	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

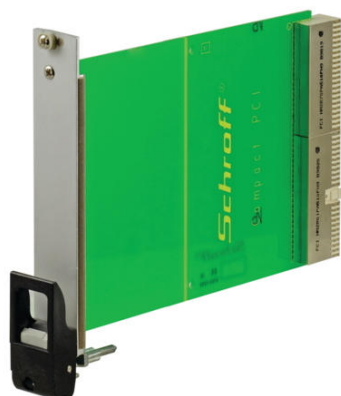
Coding peg, PC, UL 94 V-0, grey, RAL 7035 PU 100 pieces	20817-501
Microswitch for handles, CompactPCI/VME64x application PU 10 pieces	20817-606
1 kit, EMC gasket stainless steel, for U-shaped front panel, 3U, 10x	21102-105
1 kit, EMC gasket stainless steel, for U-shaped front panel, 6U, 10x	21102-107

- Dimension drawing of front profile see page 7.30
- Description of microswitch see page 7.35

Plug-in units – for CompactPCI, VME64x

KITS

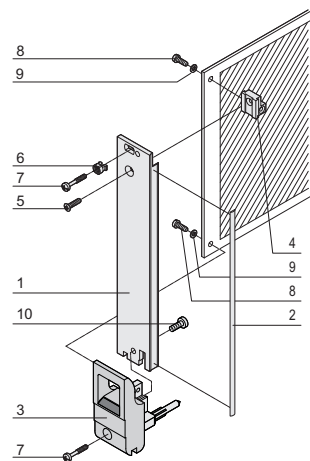
PLUG-IN UNITS WITH IET INSERTION/EXTRACTOR HANDLE FOR COMPACTPCI/VME64X APPLICATIONS



3U, Front

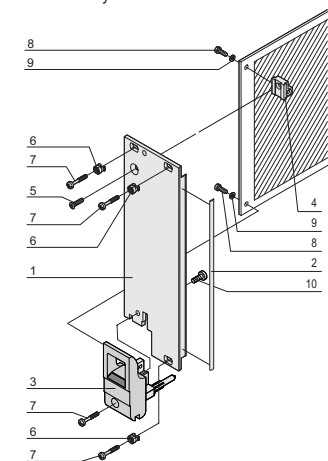
3 U

Remark: Delivery do not include the PCB



< 8 HP

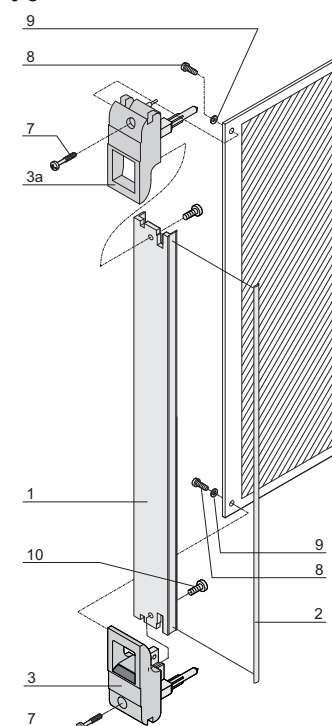
04613051



≥ 8 HP

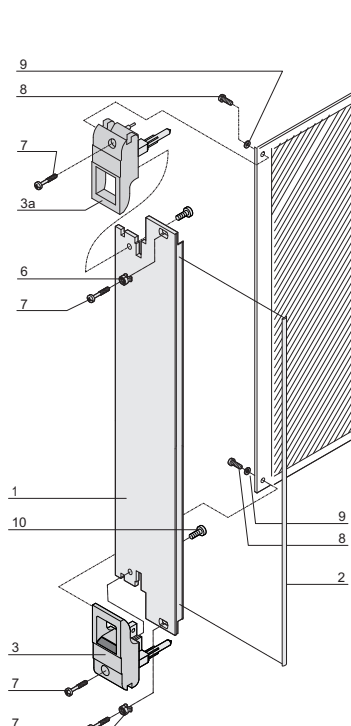
04613052

6 U



< 8 HP

04613053



≥ 8 HP

04613054

- 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
- **Plastic Material:**
UL 94 V0, EN 45545-2, R22 - R24, HL3

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

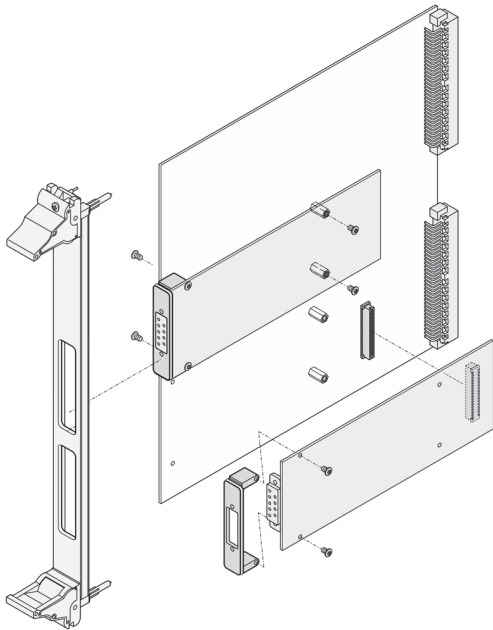
ORDER INFORMATION

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
1 kit, EMC gasket stainless steel, for U-shaped front panel, 3U, 10x	21102-105
1 kit, EMC gasket stainless steel, for U-shaped front panel, 6U, 10x	21102-107

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

Assemblies – for CompactPCI, VME64x

PMC MEZZANINE FRONT PANELS



04621050

- PMC = PCI Mezzanine Card
- For standard defined I/O mezzanine modules which connect to carrier cards
- For Single-Module 69.0 x 76.5 mm or Double-Module 139.0 x 76.5 mm modules
- In accordance with IEEE 1386.1 Spezifikation

PMC MEZZANINE FRONT PANEL KIT, SHIELDED, WITH IEL HANDLE



Remark: Delivery do not include the PCB

- 3 U or 6 U, 4 HP, U-shaped front panels with textile gasketing
- 1 or 2 PMC cutouts (depending on height)
- 1 or 2 IEL-handle (depending on height)
- EMC shielded, both the front panel and the FMC bezels
- **Plastic Material:**
UL 94 V0, EN 45545-2, R22 - R24, HL3

DELIVERY INCLUDES (assembled)

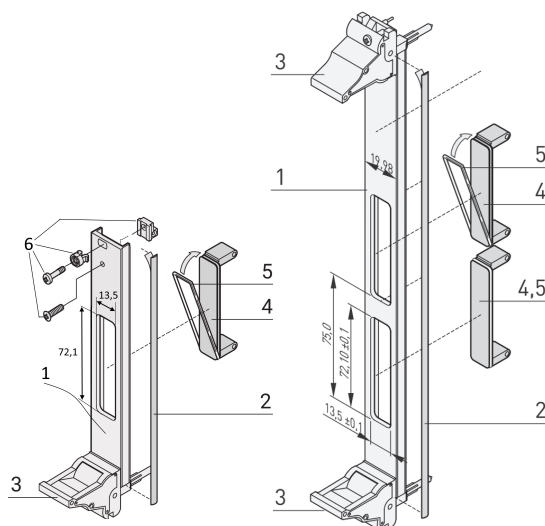
Item	Qty		Description
	3 HE	6 HE	
1	1	1	PMC front panel, U profile, Al, 4 HP, front anodized, rear conductive, 3 U has 1 cut out, 6 U has 2 cut outs
2	1	1	EMC textile gasket for front panel
3	1	2	IEL handle (handel, black, RAL 9005; button, light grey, RAL 7035)
4	1	2	PMC bezel for front panel cut outs
5	1	2	EMC gasket (O-ring)
6	1	1	Assembly kit

ORDER INFORMATION

Height	Part no.
U	
3	20836-460
6	20836-461

Accessories

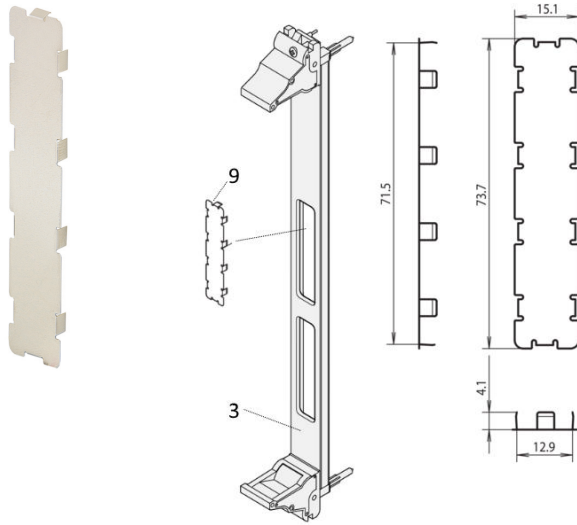
Spacer to mount PMC mezzanine boards	see page 7.23
Coding peg, PC, UL 94 V-0, grey, RAL 7035 PU 100 pieces	20817-501
Microswitch for handles, CompactPCI/VME64x application PU 10 pieces	20817-606
1 kit, EMC gasket stainless steel, for U-shaped front panel, 3U, 10x	21102-105
1 kit, EMC gasket stainless steel, for U-shaped front panel, 6U, 10x	21102-107



04621051

Modules – for CompactPCI, VME64x

PMC CUTOUT COVER FOR EMC PROTECTION



04610028
Item 9: EMC cover; Item 3: front panel

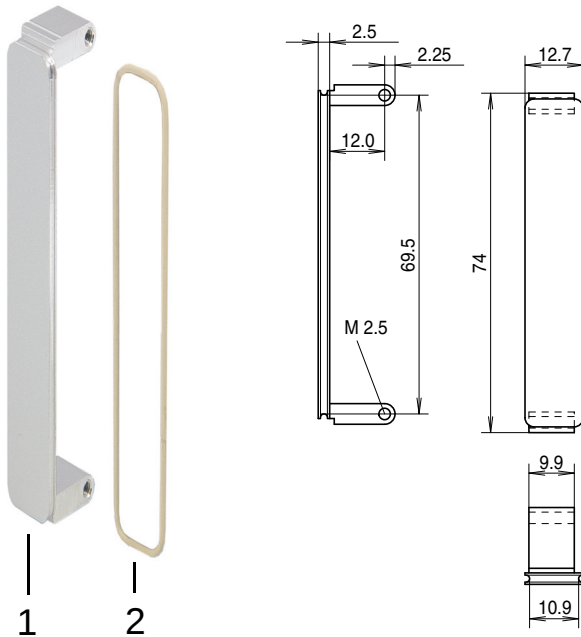
- EMC cover to close unused cut-outs in the PMC mezzanine front panels
- Material stainless steel, 0.2 mm
- Colour: black or bright

ORDER INFORMATION

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

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

PMC BEZEL FOR MEZZANINE FRONT PANELS



04610029

- Mezzanine front panel is fitted into PMC front panel cut-outs; EMC shielding with conductive O-ring
- Material:
 - Aluminium extrusion (anodised, contact surfaces conductive)

DELIVERY COMPRISES (kit)

Item	Qty	Description
1	1	PMC bezel for mezzanine front panel, Al extrusion
2	1	EMC gasket (O-ring), Cho-Seal

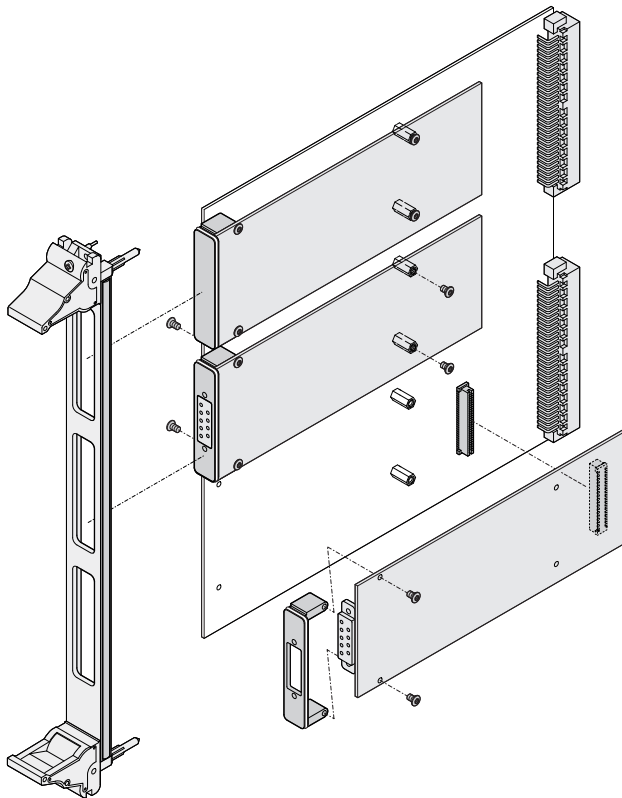
ORDER INFORMATION

PMC mezzaninefront panel	Qty/PU	with EMC gasket Part no.	without EMC gasket Part no.
Material			
Al extrusion, anodised, contact surfaces conductive	1	20835-598	–
Al extrusion, anodised, contact surfaces conductive	10	20835-889	20835-899
EMC gasket O-ring, 1 piece (Standard Pack Quantity 10 pieces)			60835-021
Cheese head screw M2.5 × 5 mm, PU 100 pieces			21100-624

mpa44846

Assemblies – for CompactPCI, VME64x

FMC MEZZANINE FRONT PANELS



04615052

- FMC = FPGA mezzanine card
- For standard defined I/O mezzanine modules which connect to carrier cards
- For single 69.0 x 76.5 mm or double 139.0 x 76.5 mm modules
- In accordance with Vita 57.1 specification

FMC MEZZANINE FRONT PANEL KIT, SHIELDED, WITH IEL HANDLE



Remark: Delivery do not include the PCB

- 3 U or 6 U, 4 HP, U-shaped front panels with textile gasketing
- 1 or 3 FMC cutouts (depending on height)
- 1 or 2 IEL front handles (depending on height)
- EMC shielded, both the front panel and the FMC bezels
- **Plastic Material:**
UL 94 V0, EN 45545-2, R22 - R24, HL3

DELIVERY INCLUDES (assembled)

Item	Qty		Description
	3 U	6 U	
1	1	1	FMC front panel, U profile, Al, 4 HP, front anodized, rear conductive, 3 U has 1 cut out, 6 U has 3 cut outs
2	1	1	EMC textile gasket for front panel
3	1	2	IEL handle (handel, black, RAL 9005; button, light grey, RAL 7035)
4	1	3	FMC bezel for front panel cut outs
5	1	3	EMC gasket (O-ring)
6	1	1	Assembly kit

ORDER INFORMATION

Height	Part no.
U	
3	20836-253
6	20836-254

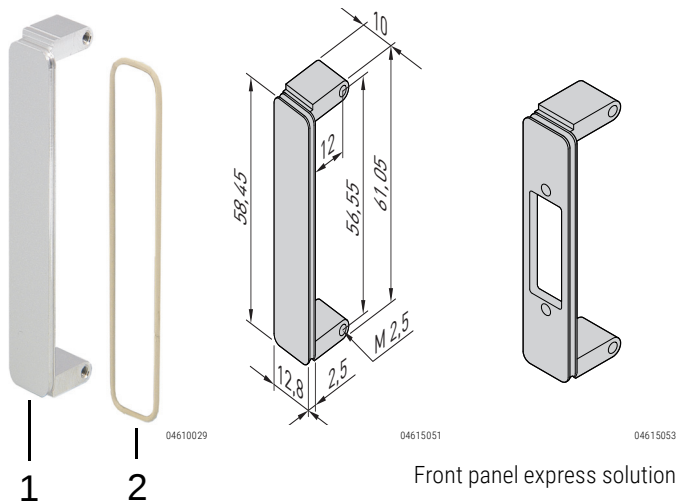
Accessories

Spacer to mount PMC mezzanine boards	see page 7.23
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
1 kit, EMC gasket stainless steel, for U-shaped front panel, 3U, 10x	21102-105
1 kit, EMC gasket stainless steel, for U-shaped front panel, 6U, 10x	21102-107

04615050

Assemblies – for CompactPCI, VME64x

EMC BEZEL FOR FMC MEZZANINE FRONT PANEL CUT-OUTS

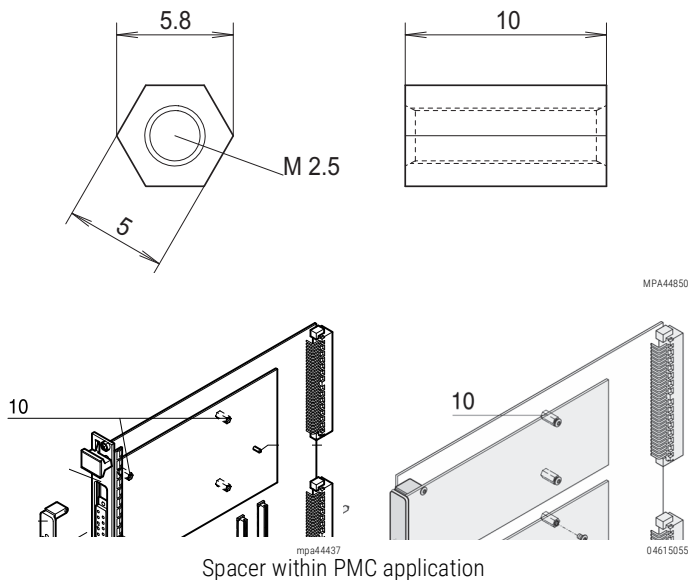


- FMC bezel is fitted into FMC Mezzanine front panel cut-outs
- Material, Al extrusion (anodised, contact surface conductive)
- Shielding for FMC bezels with an optional conductive O-ring, please order separately

ORDER INFORMATION

Description	Item	Qty/PU piece	Part no.
EMC bezel for FMC Mezzanine front panel cut outs	1	10	20835-849
Accessories			
EMC gasket for mezzanine front panel item 2, O-ring, (VITA 57.1), (standard pack quantity 10 pieces)	2	1	60835-077
Cheese head screw M2.5 x 5 mm, PU 100 pieces			21100-624

SPACER TO MOUNT PMC AND FMC MEZZANINE BOARDS



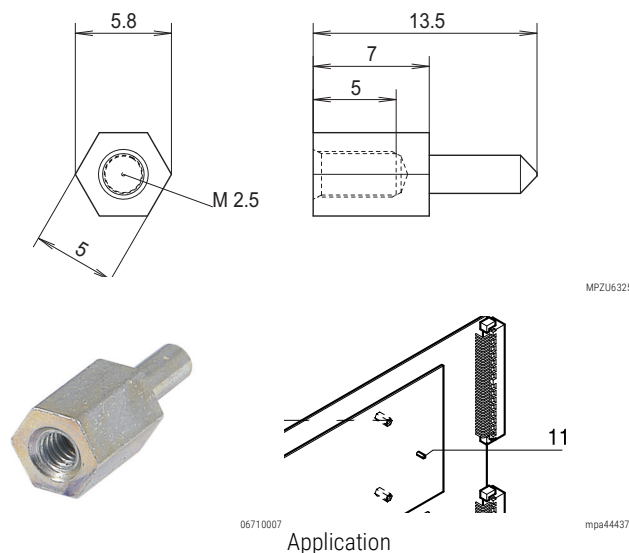
- To provide a standoff between mezzanine boards per the IEEE P1386 or VITA 57.1 specification and the carrier card

ORDER INFORMATION

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

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

VOLTAGE KEYING/CODING PIN FOR PMC MEZZANINE BOARDS



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

ORDER INFORMATION

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

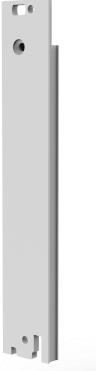
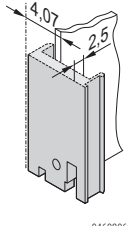
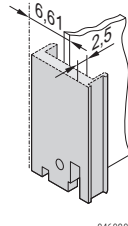
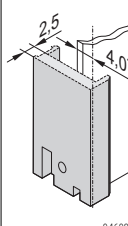
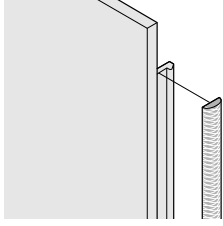
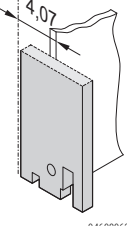
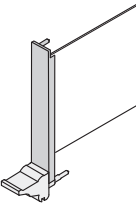
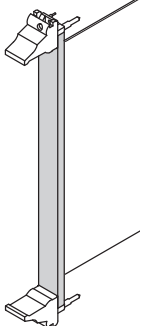
Delivery is exclusively made in Standard Pack Quantity (SPQ): Please order at least 10 pieces or a multiple.
Pricing is per individual item.

Modules – 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			
  U-Profile Front panel Flat Front panel	 04608060	 04608062	 04608061	 BGA45760		 04608063
	Al extrusion, 2.5 mm, front anodised, rear conductive; alignment pin pressed-in (3 U only), stainless steel; manufacturing process causes various surface structures to appear between 4 to 12 HP and 14 to 16 HP			always fixed laterally on the front panel, in the groove of the profile, textile gasket, core: foam, sleeve: textile cladding with CuNi coating, UL 94 V-0, temperature range -40 ... 70 °C		front panel, Al, 2.5 mm, front anodised, rear iridescent green chromated
	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	30848-867		30848-327
	5	30848-300	30848-427	–		30848-328
	6	30848-313	30848-428	–		30848-329
	7	30848-301	30848-429	–		30848-330
	8	30848-314	30848-430	30848-869		30848-331
	9	30848-299	–	–	21101-853	–
	10	30848-315	30848-431	–	21101-854	30848-333
	11	20848-228	–	–		–
	12	30848-316	30848-432	30848-985		30848-335
	14	20848-230	–	–		–
	16	20848-232	–	–		–
6 U Height						
 04608066	4	30848-317	30848-317	30848-317		30848-336
	5	30848-304	30848-304	30848-304		30848-337
	6	30848-318	30848-318	30848-318		30848-338
	7	30848-305	30848-305	30848-305		30848-339
	8	30848-319	30848-319	30848-319		30848-340
	9	30848-999	30848-999	30848-999	21101-855	–
	10	30848-320	30848-320	30848-320	21101-856	30848-342
	11	20848-244	20848-244	20848-244		–
	12	30848-321	30848-321	30848-321		30848-344
	14	20848-246	20848-246	20848-246		–
	16	20848-248	20848-248	20848-248		–
Fixing material see page	7.27	7.27	7.27			7.27
Dimensions see page	7.30	7.30	7.29			7.31

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

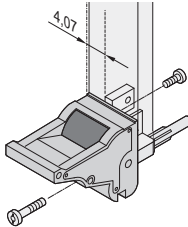
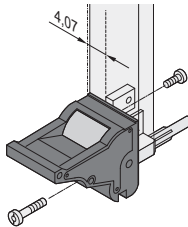
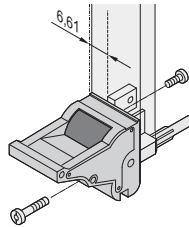
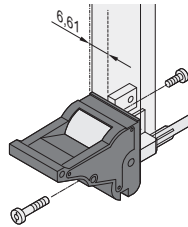
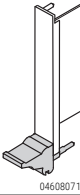
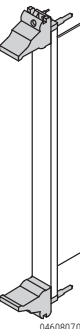
Part no. includes one packing unit (PU); delivery is exclusively made in PU

Modules – for CompactPCI, VME64x

INDIVIDUAL COMPONENTS

INSERTER/EXTRACTOR HANDLE, TYPE IEL

ORDER INFORMATION

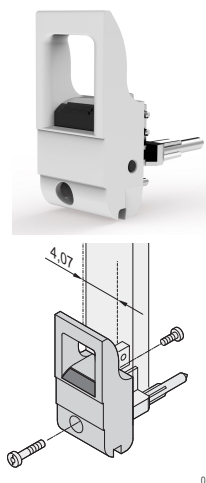
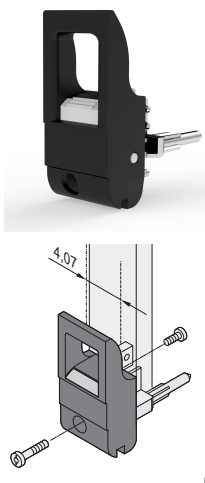
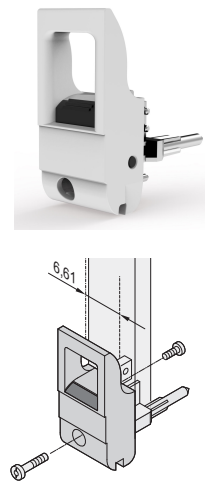
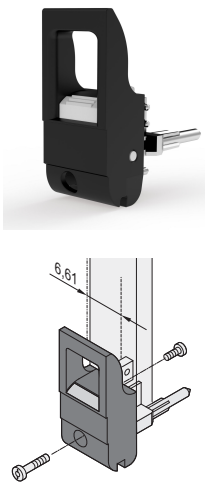
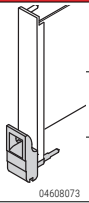
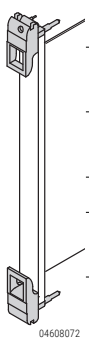
		Insertor/extractor handle, type IEL, board fixing without offset		Insertor/extractor handle, type IEL, board fixing with 0.1" offset					
		lever: light grey, RAL 7035 key: black, RAL 9005		lever: black, RAL 9005 key: lightgrey, RAL 7035		lever: light grey, RAL 7035 key: black, RAL 9005		lever: black, RAL 9005 key: lightgrey, RAL 7035	
									
									
		04608050		04608052		04608051			
		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 V0, EN 45545-2, R22 - R24, HL 3, 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 94V0, EN 45545-2, R22 - R24, HL 3, 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
		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	–	–	–	–
		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		7.32				7.32			

Plug-in units – for CompactPCI, VME64x

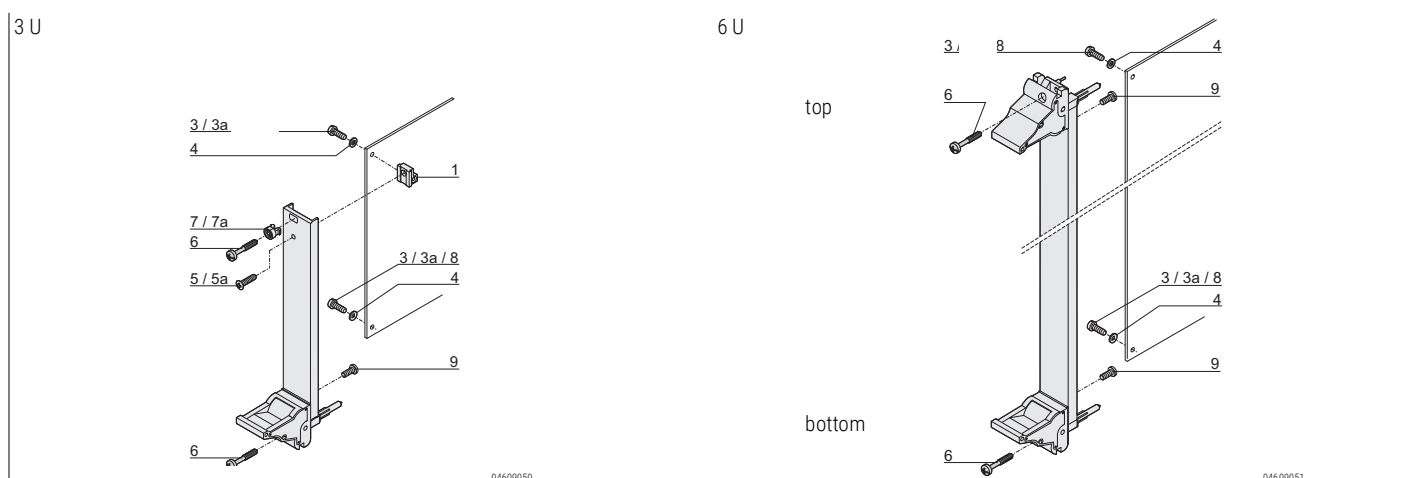
**INDIVIDUAL
COMPONENTS**

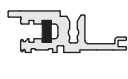
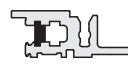
INSERTER/EXTRACTOR HANDLE, TYPE IET

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: lightgrey, RAL 7035		lever: light grey, RAL 7035 key: black, RAL 9005		lever: black, RAL 9005 key: lightgrey, RAL 7035	
									
		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 V0, EN 45545-2, R22 - R24, HL 3, 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 V0, EN 45545-2, R22 - R24, HL 3, 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
		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	–	–	–	–
		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		7.27				7.27			
Dimensions see page		7.33				7.33			

Plug-in units – for CompactPCI, VME64x

INDIVIDUAL COMPONENTS
INSERTER/EXTRACTOR HANDLES, TYPE IEL/IET, FIXING MATERIAL


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		1	1	–	–	1 piece (SPG 10) ¹⁾	60807-181
Pozidrive panhead screw M2.5 × 6, St, nickel-plated , not for 0.1" offset	3		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		2	2	2	2	100	24560-159
Washer 2.7, DIN 125, St, nickel-plated	4		2	2	2	2	100	21100-721
Raised Pozidrive countersunk panhead screw M2.5 × 8, St, nickel-plated	5		1	1	–	–	100	21100-429
Raised countersunk panhead screw with Torx 8 M2.5 × 8, St, nickel-plated	5a		1	1	–	–	100	24560-164
Pozidrive/slot collar screw M2.5 × 12.3, St, nickel-plated	6		1	3	–	2	100	21101-101
Collar screws pozidrive/slot (Philips) M2.5 × 12.3, St, nickel-plated	6		1	3	–	2	100	21102-026
Plastic sleeve, for form hole 5.9 x 3.3 PA, UL 90 V-2, grey	7		1	3	–	2	100	21100-464
Metal sleeve, for form hole 5.9 x 3.3, press-in Stainless steal	7a		1	3	–	2	100	21100-662
Pozidrive panhead screw for IEL/IET handle with 0.1" offset M2.5 × 10, nickel-plated steel	8		2	2	2	2	100	21101-220
Torx panhead screw M2.5 × 7, St, nickel-plated, Torx 8,	9		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

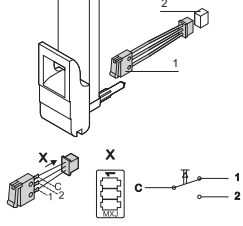
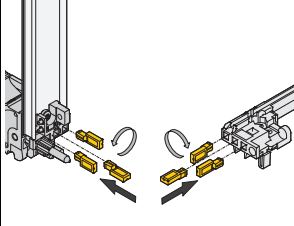
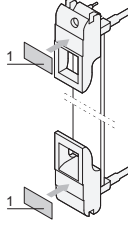
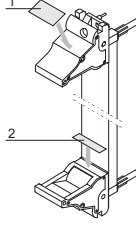
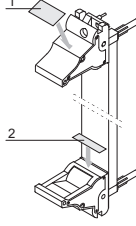
Part number in bold face type: ready for despatch within 2 working days
Part number in normal type: ready for despatch within 10 working days

Plug-in units – for CompactPCI, VME64x

**INDIVIDUAL
COMPONENTS**

INSERTER/EXTRACTOR HANDLES, TYPE IEL/IET, ACCESSORIES

ORDER INFORMATION

Microswitch	Keying/coding	Label strips	Label strips	
with cable and plug	in accordance with IEC 60297-3-103	19 x 9.5 mm	19 x 9.5 mm	19 x 4.8 mm
 bga46314 bga46315 Molex connector housing 51021-0300, Molex crimp contact 50058-8000 and fixing clip (item 3), plastic, PC, UL 94 V-0, max. switched current 50 mA, operating range -25 °C to +70 °C, mech. life ≥ 20,000 switching cycles, electr. life ≥ 20,000 switching cycles; suitable mating connectors (item 2) e.g. Molex 53261-0319, 53048-0310, 53047-0310, 53398-0319, 51047-0300 not included in scope of delivery	 04612052 The keying/coding pegs prevent plug-in units to be mounted in wrong slots. They are inserted in the chambers of the codable card guides as well as in the insertion/extraction handles IEL or IET (4 possible positions), resulting in 64 codings per card guide; when coding the upper and lower card guide, 4096 codings will result; guide rails for coding see page 6.40	 04606050 Polyester, self-adhesive, white, 1 sheet 210 pieces (Item 1)	 bga46317 Polyester, self-adhesive, white, 1 sheet 210 pieces (item 1)	 bga46317 Polyester, self-adhesive, white, 1 sheet 320 pieces (item 2)
PU 10 pieces	PU 100 pieces	PU 210 pieces	PU 210 pieces	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

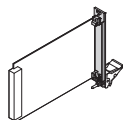
Plug-in units – for CompactPCI, VME64x

DIMENSIONS

FRONT PANELS, U-PROFILES, INSERTER/EXTRACTOR HANDLES, TYPE IEL/IET, REAR I/O, SHIELDABLE

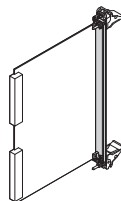
PCB fixing without offset

3 U

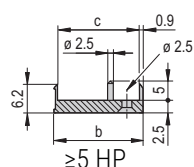
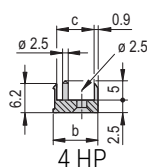
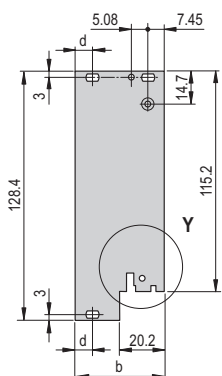
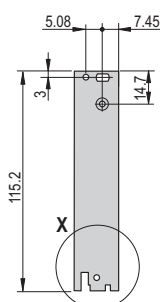
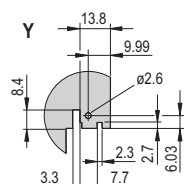
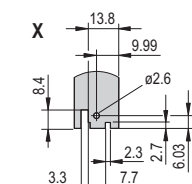


04608068

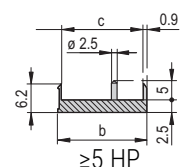
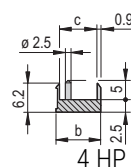
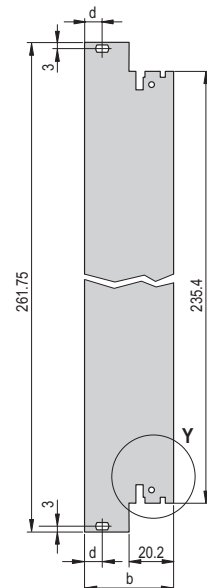
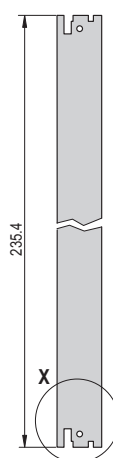
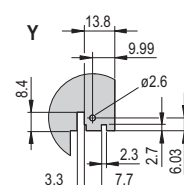
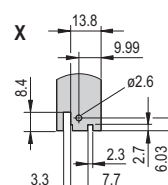
6 U



04608076



04608069



04608075

Dimensions table

Width 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

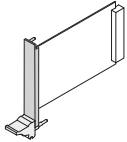
Plug-in units – for CompactPCI, VME64x

DIMENSIONS

FRONT PANELS, U-PROFILES, INSERTER/EXTRACTOR HANDLES, TYPE IEL, IET, SHIELDABLE

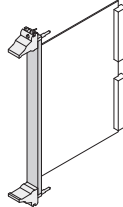
PCB fixing without offset / with 0.1" offset

3 U

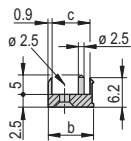
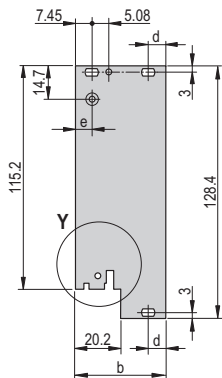
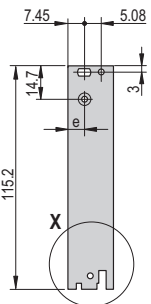
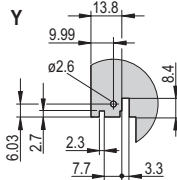
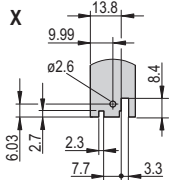


04608067

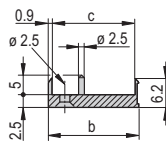
6 U



04608066

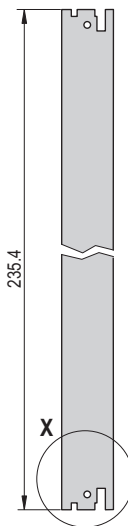
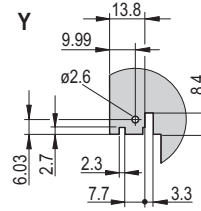
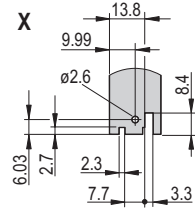


4 HP



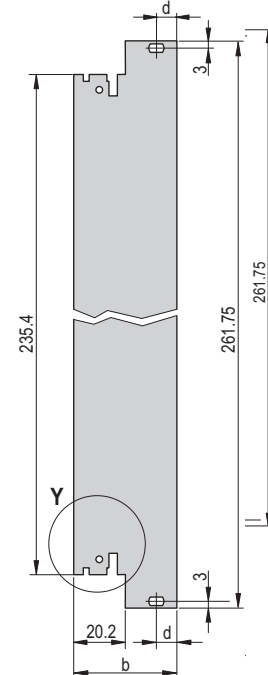
≥5 HP

04608064



2.5

4 HP



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

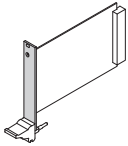
Plug-in units – for CompactPCI, VME64x

DIMENSIONS

FRONT PANELS, INSERTER/EXTRACTOR HANDLES, TYPE IEL/IET, UNSHIELDED

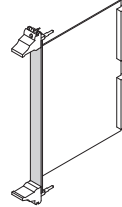
PCB fixing without offset

3 U

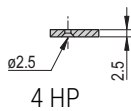
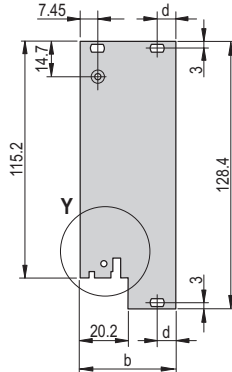
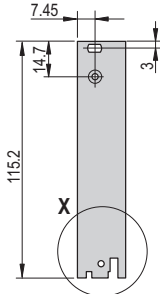
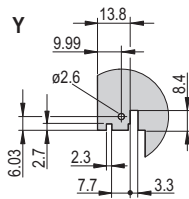
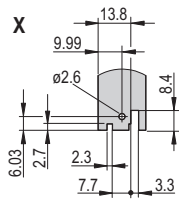


04608080

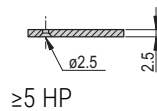
6 U



04608079

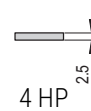
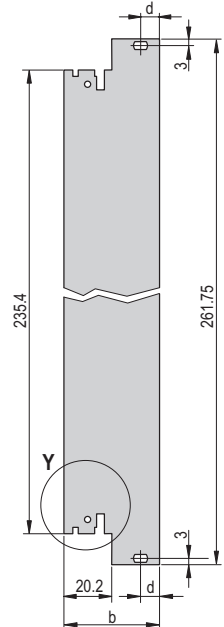
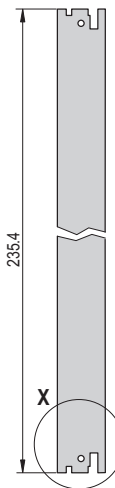
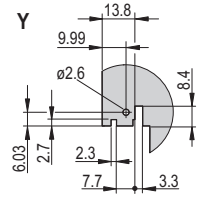
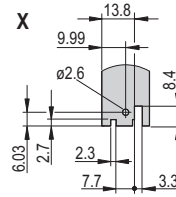


4 HP

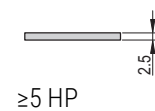


≥5 HP

04608077



4 HP



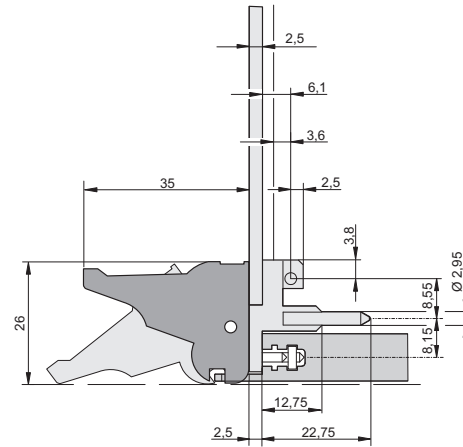
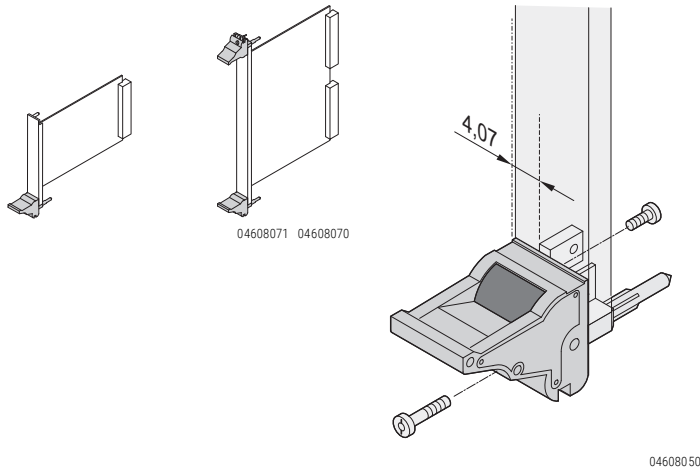
≥5 HP

04608078

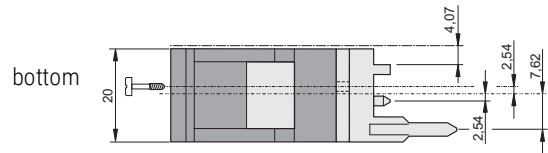
Dimensions table

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

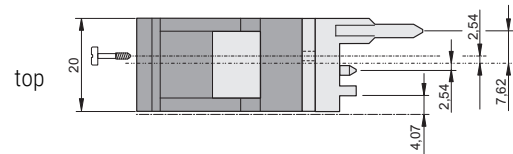
INSERTER/EXTRACTOR HANDLE, TYPE IEL



04603059

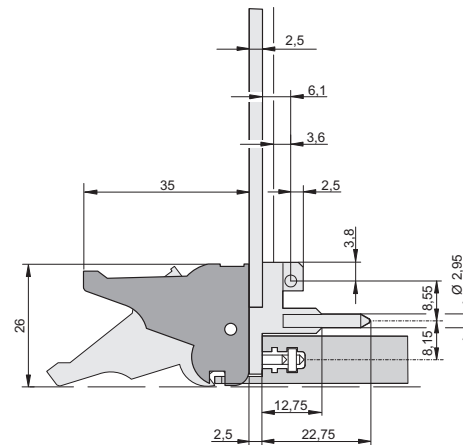
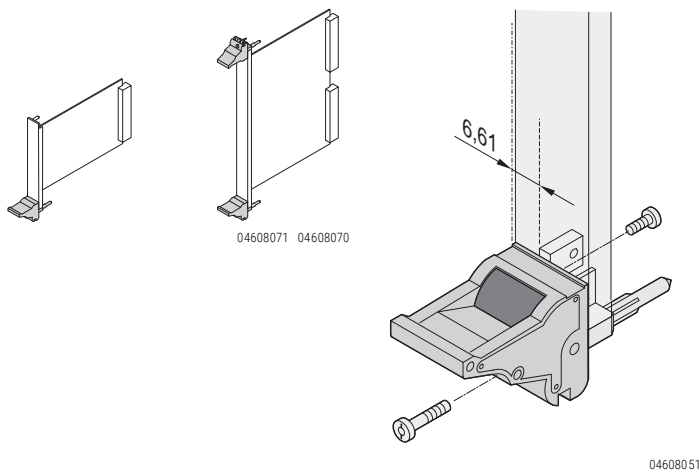


04607053

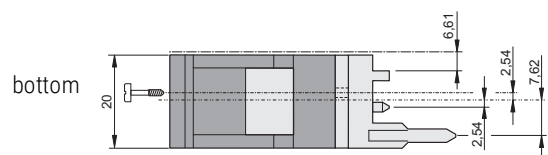


04607054

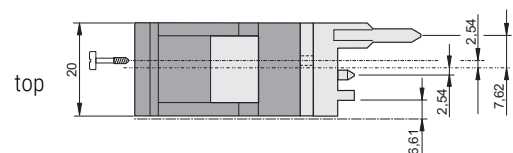
INSERTER/EXTRACTOR HANDLE, TYPE IEL, 0.1" OFFSET



04603059



04603061

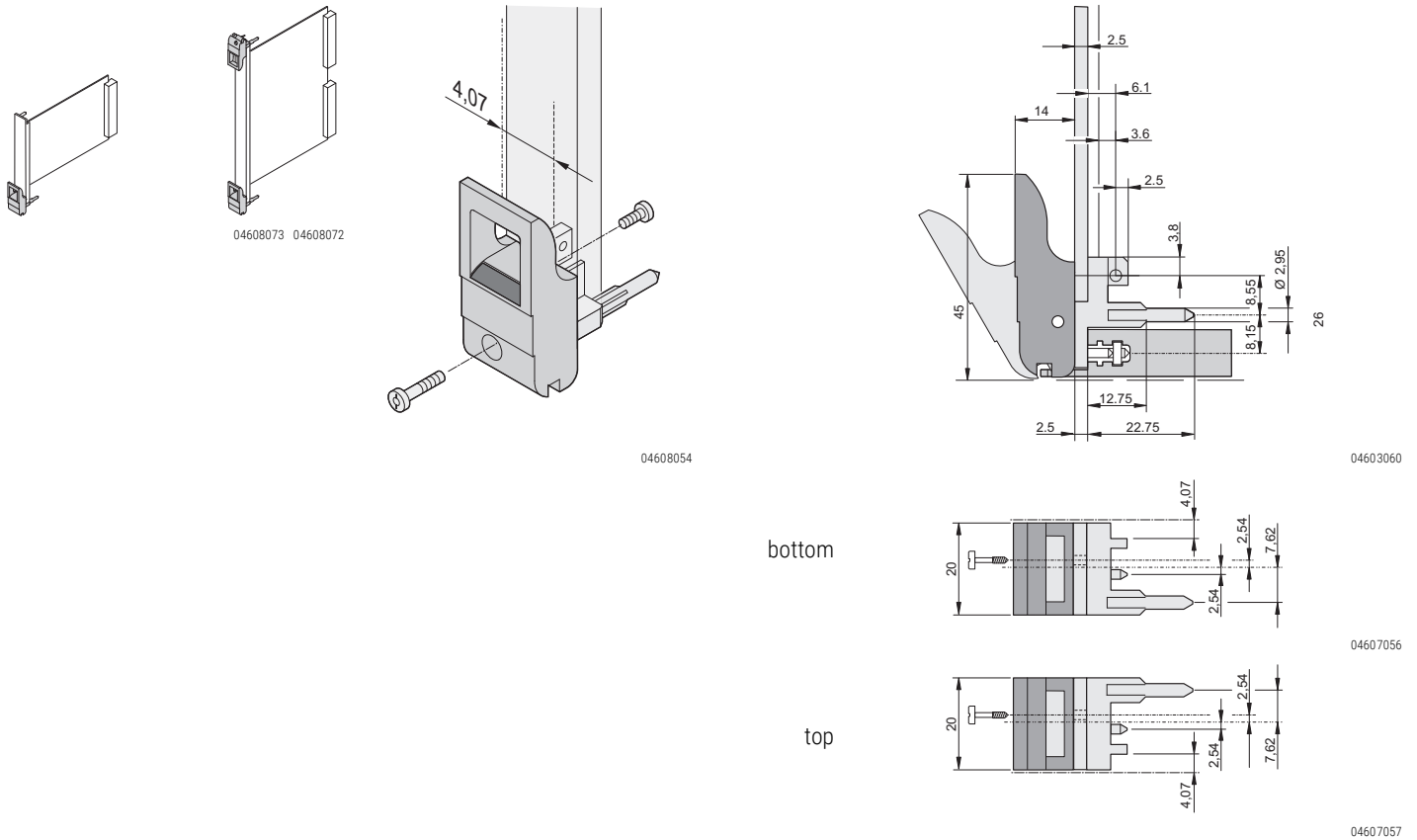


04607055

Plug-in units – for CompactPCI, VME64x

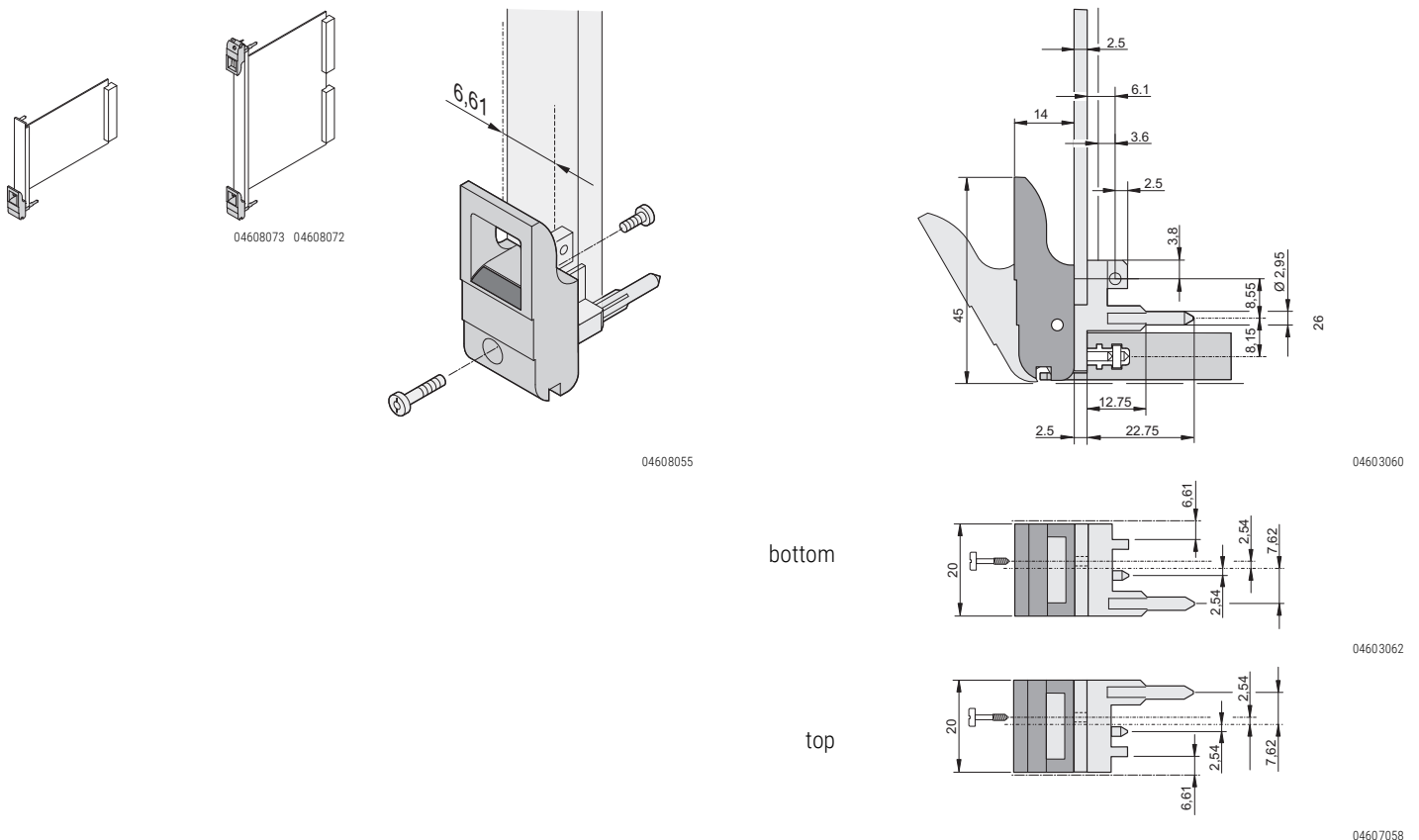
DIMENSIONS

INSERTER/EXTRACTOR HANDLE, TYPE IET



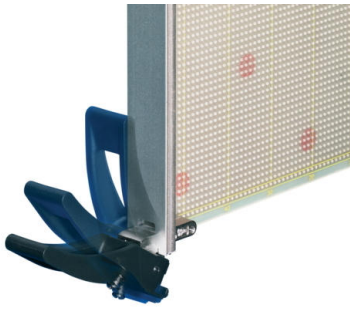
DIMENSIONS

INSERTER/EXTRACTOR HANDLE, TYPE IET, 0.1" OFFSET



Plug-in units – for CompactPCI, VME64x,

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

DELIVERY INCLUDES (Kit)

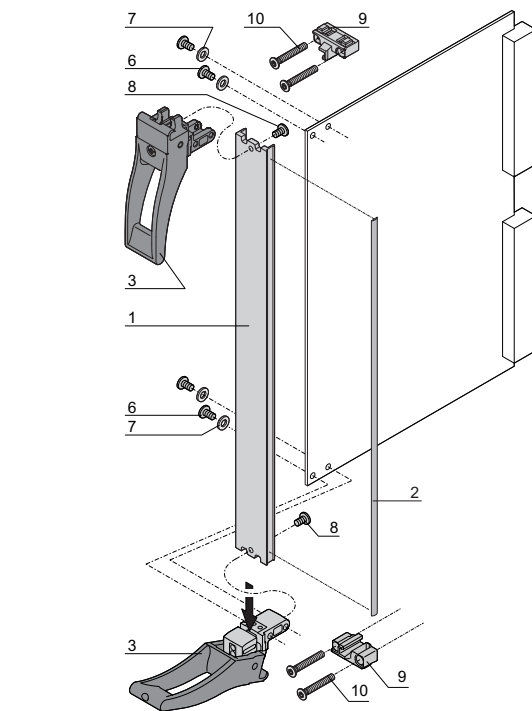
Item	Qty		Description
	<8 HP	≥8 HP	
1	1	1	Front panel (U profile), Al, front anodized, rear conductive
2	1	1	EMC sealing (textile), core: foam, sleeve: textile cladding, CuNi coated
3	2	2	Handle with integrated alignment pin for perforated strips and guide rails, lever: plastic, PC, black, RAL 9005 Key: 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
1 kit, EMC gasket stainless steel, for U-shaped front panel, 6U, 10x	21102-107

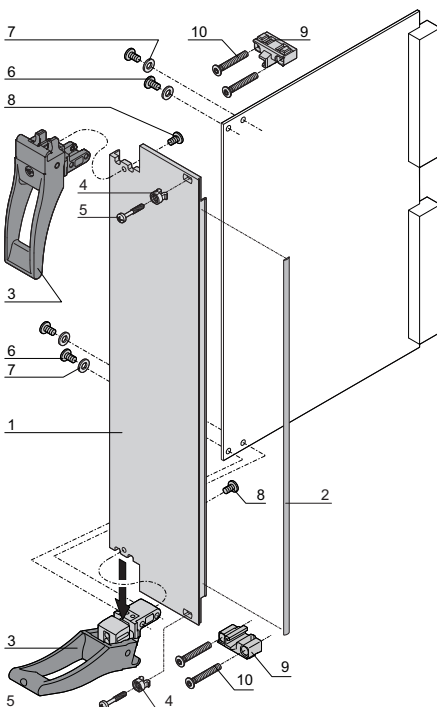
NOTE

- Can only be used in connection with H-LD or R-LD module rails
- Dimension drawing of front profile, see page 7.32



< 8 HP

04613055

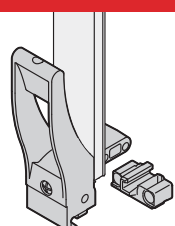
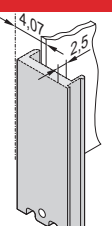
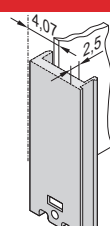
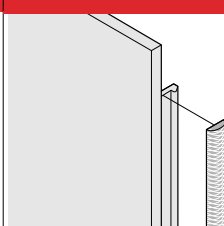
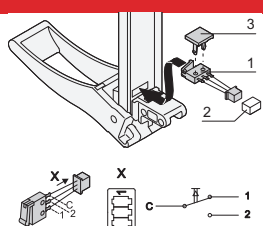


≥8 HP

04613056

Plug-in units – for CompactPCI, VME64x,

INDIVIDUAL COMPONENTS
INSERTER/EXTRACTOR HANDLE, TYPE XL, FRONT PANELS, MICROSWITCH

	Insertor/extractor handle, type XL	U front profile, shieldable, for inserter/extractor handle, type XL		EMC gasket (textile)		Microswitch item 1 with cable and plug
		without cut-out for microswitch	with cut-out for microswitch			
 04605008	 04608081 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	 04608082 Al, front anodised, sides and rear conductive, for sleeve and collar screw see page 7.41	 04608083 Al, front anodised, sides and rear conductive for sleeve and collar screw see page 7.41	 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		 04608084 bga46315 Molex connector housing 51021-0300, Molex crimp contact 50058-8000 and fixing clip (item 3), plastic, PC, UL 94 V-0, max. switched current 50 mA, operating range -25 °C to +70 °C, mech. life ≥ 20,000 switching cycles, electr. life ≥ 20,000 switching cycles; suitable mating 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		30849-153	30849-154			
8	20817-874	30849-155	30849-156	21101-855	21101-856	20817-877
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

U FRONT PROFILE FOR EXTRACTOR HANDLE TYPE XL, SHIELDABLE

6 U/12 HP



INSERTER/EXTRACTOR HANDLE, TYPE XL



Plug-in units – for VME

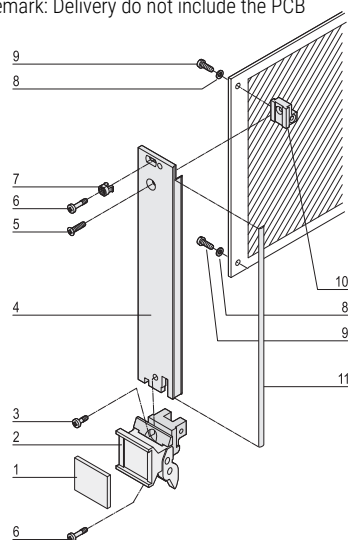
KITS

PLUG-IN UNITS WITH TRAPEZIFORM EXTRACTOR HANDLE, TYPE 2



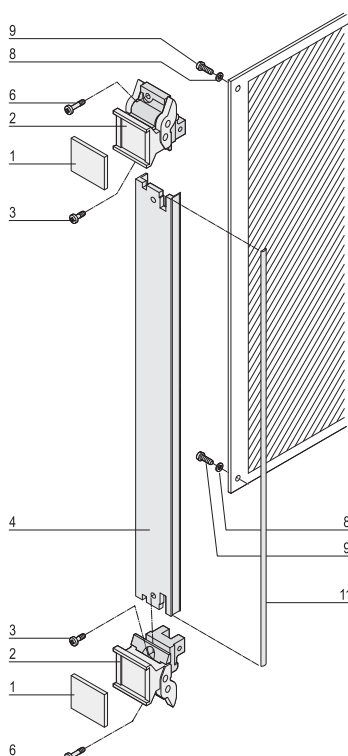
3 U

Remark: Delivery do not include the PCB



04604050

6 U



04604051

- Shielded
- Plastic Material:
UL 94 V0, EN 45545-2, R22 - R24, HL3

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: PC, light grey, RAL 7035, block die-cast zinc, nickel-plated, with integrated alignment pin for perforated strip
3	1	1	2	2	Pozidrive flathead screw, St, M2.5 x 6, nickel-plated
4	1	1	1	1	Front panel, U profile, Al, front anodised, rear conductive
5	1	1	–	–	Raised Pozidrive countersunk screw M2.5 x 8, St, nickel-plated
6	2	4	2	4	Pozidrive collar screw, M2.5 x 12.3, St, nickel-plated,
7	1	3	–	2	Sleeve, PA, grey
8	2	2	2	2	Washer A 2.7, DIN 125
9	2	2	2	2	Panhead screw with Torx/slot, M2.5 x 6, St, zinc-plated, self-locking
10	1	1	–	–	Board support, die-cast zinc
11	1	1	1	1	EMC sealing (textile), core: foam, sleeve: textile cladding, Cu-Ni coated

ORDER INFORMATION

Height U	Width HP	Part no.
3	4	20848-686
3	6	20848-687
3	8	20848-688
3	10	20848-689
3	12	20848-690
6	4	20848-691
6	6	20848-692
6	8	20848-693
6	10	20848-694
6	12	20848-695
1 kit, EMC gasket stainless steel, for U-shaped front panel, 3U, 10x		21102-105
1 kit, EMC gasket stainless steel, for U-shaped front panel, 6U, 10x		21102-107

- Dimension drawings of front profile see page 7.42
- Description of microswitch see page 7.35

Plug-in units – for VME

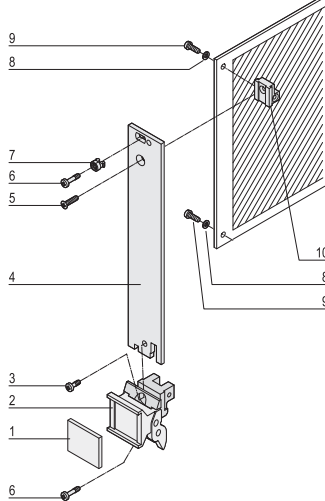
KITS

PLUG-IN UNITS WITH TRAPEZIFORM EXTRACTOR HANDLE, TYPE 2



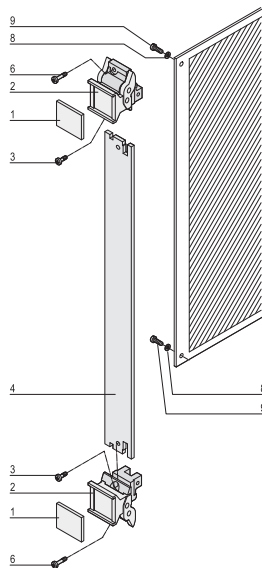
Remark: Delivery do not include the PCB

3 U



0460-4052

6 U



0460-4053

- Unshielded
- Plastic Material:
UL 94 V0, EN 45545-2, R22 - R24, HL3

DELIVERY COMPRISES (kit)

Item	Qty				Description
	3 U		6 U		
	<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: PC, light grey, RAL 7035, block: die-cast zinc, nickel-plated, without alignment PIN
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
6	2	4	2	4	Slotted Pozidrive collar screw, M2.5 x 12.3, 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

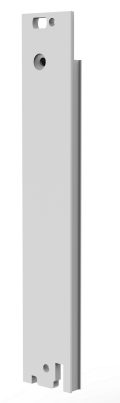
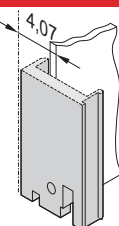
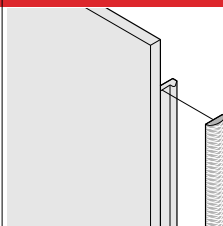
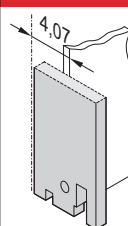
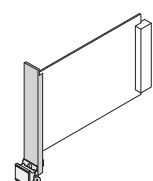
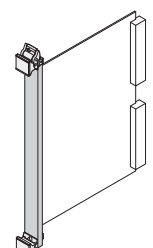
- Dimension drawing of front profile see page 7.42
- Description of microswitch see page 7.35

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	Textile EMC gasket		Front panel, flat, unshielded
  U-Profile Front panel Flat Front panel	 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	 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	 04608063 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⁾
 04608109	3 U Height			
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			
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	7.42			7.36

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

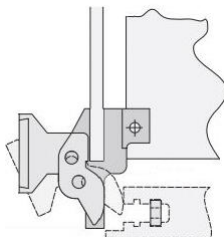
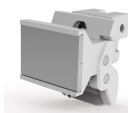
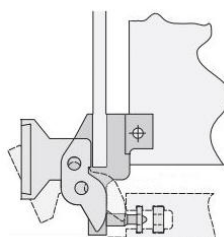
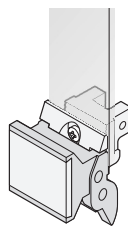
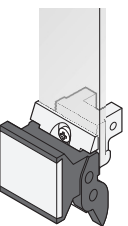
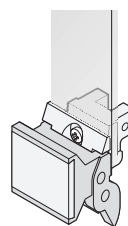
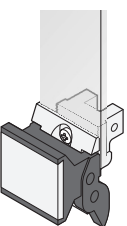
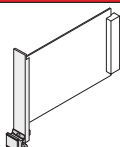
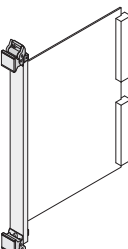
Part no. includes one packing unit (PU); delivery is exclusively made in PU

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, RAL7035	lever, black, RAL 9005		lever, light grey, RAL 7035	lever, black, RAL 9005
without alignment pin 						
with alignment pin 						
		Extractor handle, PC; UL 94 V0, EN 45545-2, R22 - R24; HL 3 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			Extractor handle, PC; UL 94 V0, EN 45545-2, R22 - R24; HL 3 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	
Width HP		1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾		1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾
 04608114	3 U Height bottom					
		20817-858	20817-856		20817-833	20817-831
 04608115	6 U Height top					
		20817-858	20817-856		20817-833	20817-831
	bottom					
		20817-858	20817-856		20817-833	20817-831
Dimensions see page		7.43			7.43	

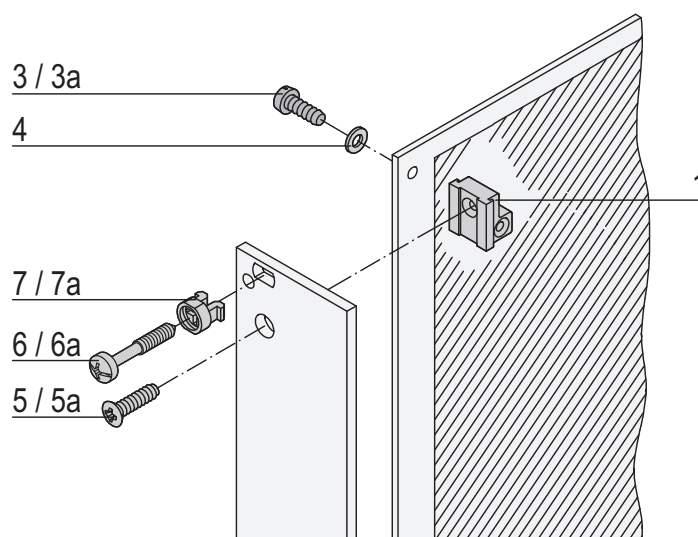
1) SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple

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

Plug-in units – for VME

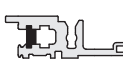
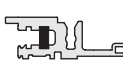
INDIVIDUAL COMPONENTS

FIXING MATERIAL FOR TRAPEZIFORM EXTRACTOR HANDLE, TYPE 2



bga46045

06a46b45

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, with M2.5 thread	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	
Collar screws pozidrive/slot (Philips) M2.5 × 12.3, St, nickel-plated	6	 AZA46586	 AZA46586	1	3	–	2	100	21102-026
Slotted Pozidrive collar screw M2.5 × 12.3, St, nickel-plated	6a	 AZA46586	 AZA46586	1	3	–	2	100	21101-101
Plastic sleeve, for form hole 5.9 x 3.3 PA, UL 90 V-2, grey	7	 aza45933	1	3	–	2	100	21100-464	
Metal sleeve, for form hole 5.9 x 3.3, press-in Stainless steel	7a	 aza45934	1	3	–	2	100	21100-662	

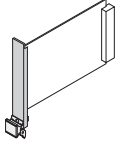
1) SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple

Plug-in units – for VME

DIMENSIONS

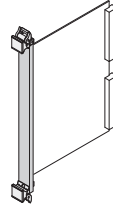
FRONT PANELS, U PROFILES, FOR TRAPEZIFORM EXTRACTOR HANDLES, TYPE 2

3 U

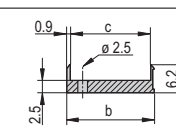
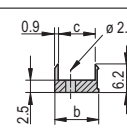
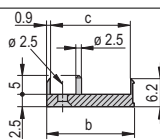
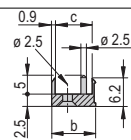
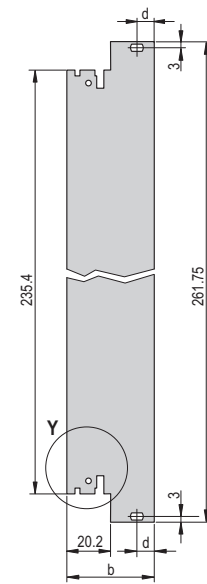
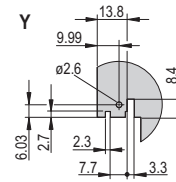
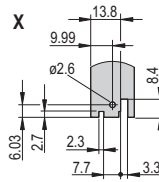
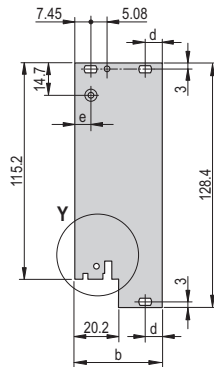
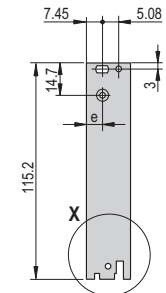
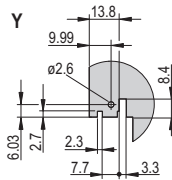
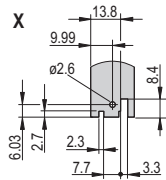


04608109

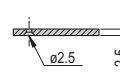
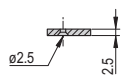
6 U



04608107



shieldable



unshielded

4 HP

≥5 HP

04608064 04608077

4 HP

≥5 HP

04608065 04608078

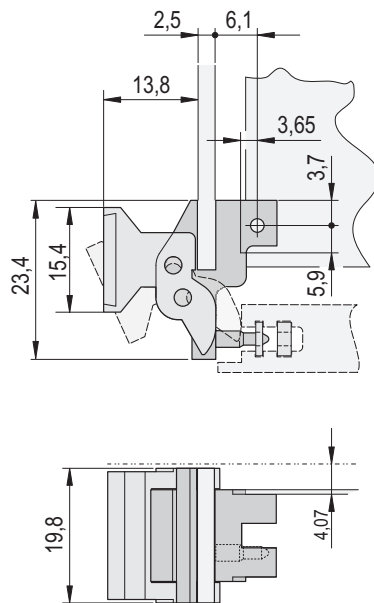
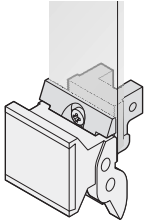
Dimensions table

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

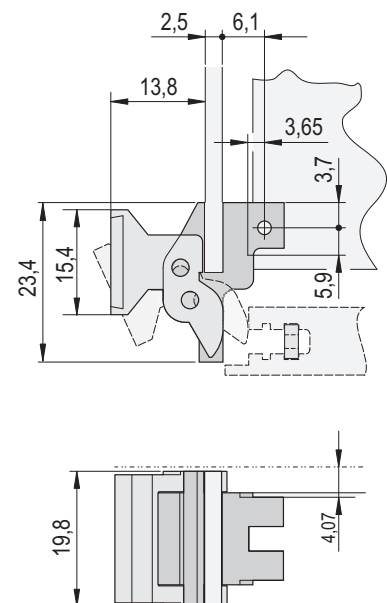
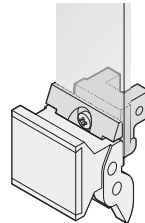
Plug-in units – for VME

DIMENSION DRAWINGS EXTRACTOR HANDLE, TRAPEZIFORM, TYPE 2

with alignment pin



without alignment pin



Plug-in units – for VME

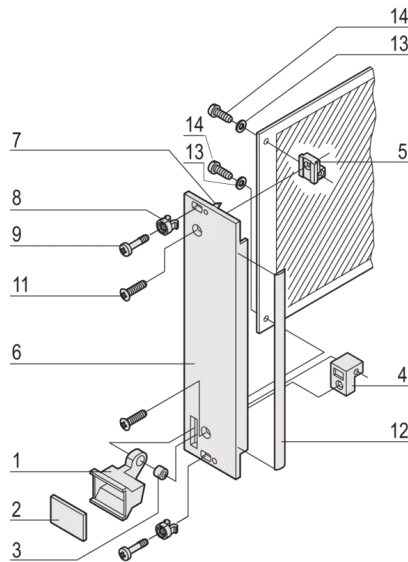
KITS

PLUG-IN UNITS WITH TRAPEZIFORM EXTRACTOR HANDLE, TYPE 1 – FRONT PANEL, U-PROFILE, SHIELDED

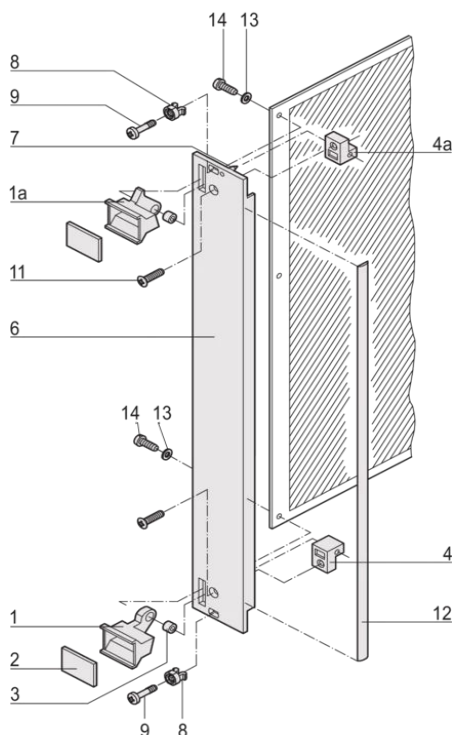


Remark: Delivery do not include the PCB

3 U



6 U



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

- Plastic Material:
UL 94 V0, EN 45545-2, R22 - R24, HL3

DELIVERY COMPRISES (kit)

Item	Qty	3 U	6 U	Description
1	1	1		Extractor handle, trapeziform type, PC, grey (RAL 7035), bottom
1a	-	1		Extractor handle, trapeziform type, PC, grey (RAL7035), 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 x 12.3, front panel width up to 7 HP
9	4	4		Collar screw, Pozidrive/slot, St, nickel-plated, M2.5 x 12.3, front panel width from 8 HP
11	1	2		Raised countersunk panhead screw, M2.5 x 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 x 10

ORDER INFORMATION

Width HP	3 U Part no.	6 U 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
1 kit, EMC gasket stainless steel, for U-shaped front panel, 3U, 10x	21102-105	
1 kit, EMC gasket stainless steel, for U-shaped front panel, 6U, 10x	21102-107	

NOTE

- Dimension of the front panels see page 7.49

Plug-in units – for VME

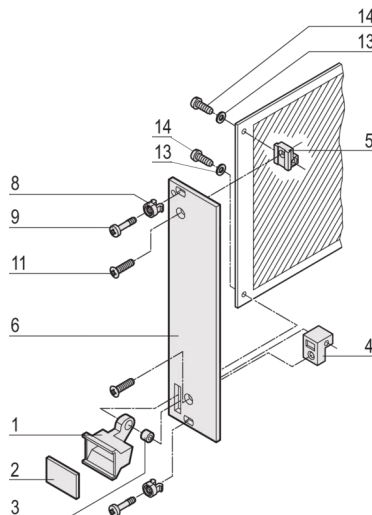
KITS

PLUG-IN UNITS WITH TRAPEZIFORM EXTRACTOR HANDLE, TYPE 1 – FRONT PANEL UNSHIELDED

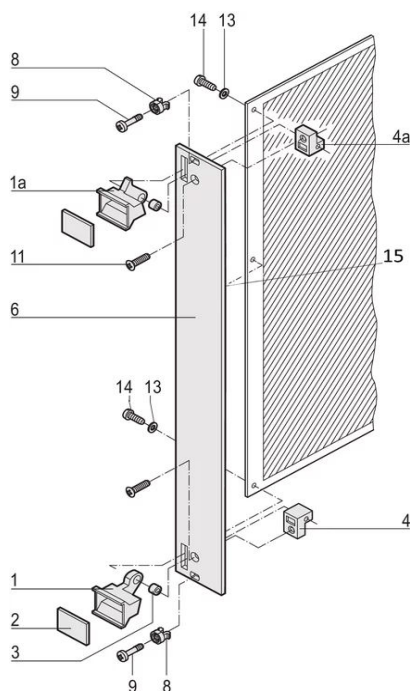


Remark: Delivery do not include the PCB

3 U



6 U



- At 6 U the board position can be offset by 1 HP to the right by swapping the top and bottom board supports; thus space is created for SMD components on the left (solder) side; for board thickness 1.6 mm only
- Plastic Material:
UL 94 V0, EN 45545-2, R22 - R24, HL3

DELIVERY COMPRISES (kit)

Item	Qty	Description
	3 U	6 U
1	1	1
1a	–	1
2	1	2
3	1	2
4	1	1
4a	–	1
5	1	–
6	1	1
8	2	2
8	4	4
9	2	2
9	4	4
11	1	2
13	2	2
14	2	2

ORDER INFORMATION

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

NOTE

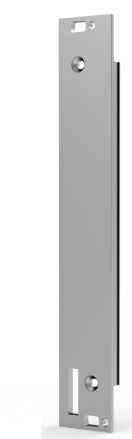
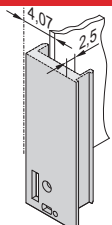
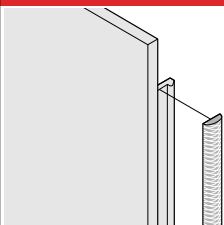
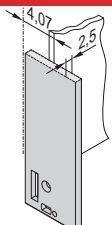
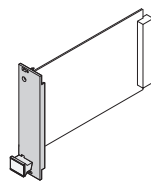
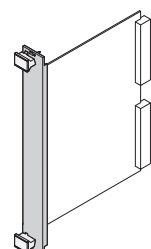
- Dimension front panel see page 7.49

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	Textile EMC gasket		Front panel, unshielded	
 U-Profile Front panel  Flat Front panel	 04608091 Al profile, front anodised, rear conductive, alignment pin pressed-in, stainless steel	 BGA45760 always fixed laterally on the front panel, in the groove of the profile, textile gasket, core: foam, sleeve: textile cladding with CuNi coating, UL 94 V-0, temperature range -40 ... 70 °C	 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					
 04608117	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					
 04608116	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	7.49				7.49

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

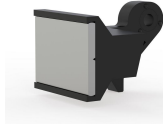
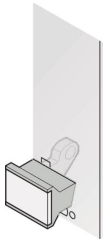
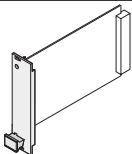
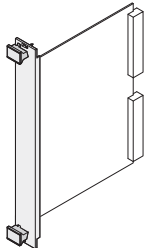
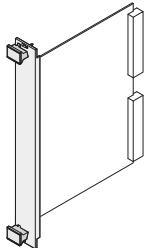
Part no. includes one packing unit (PU); delivery is exclusively made in PU

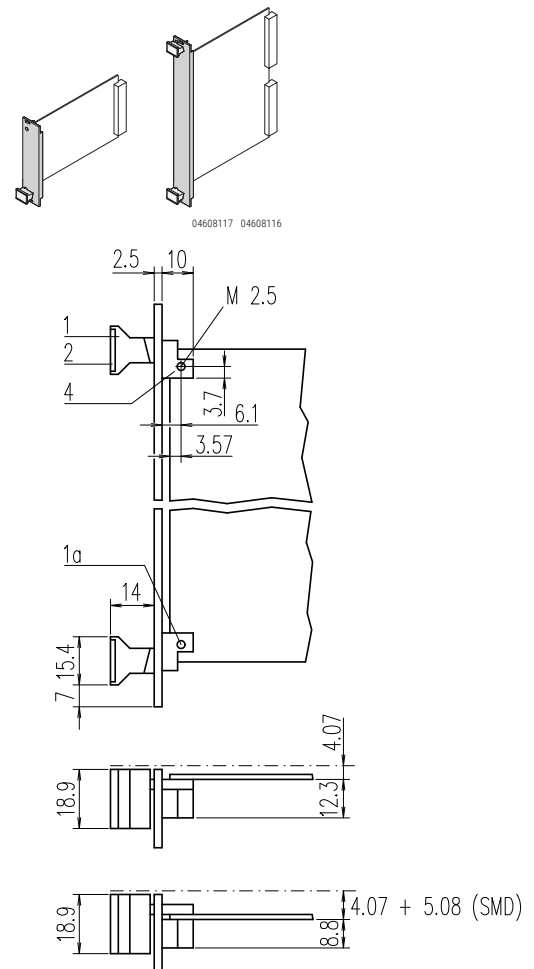
Plug-in units – for VME

INDIVIDUAL
COMPONENTS

TRAPEZIFORM EXTRACTOR HANDLES, TYPE 1

ORDER INFORMATION

		Trapeziform extractor handle	
		black (RAL 9005)	grey (RAL 7035)
   	pivot bush; identification plate,		Handle closed laterally, PC, UL 94 V0, EN 45545-2, R22 -R24, HL3 Identification plate, Al, 1.5 mm, anodised, cut edges plain; pivot bush, 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⁾
 04608119	3 U Height top		
	20817-329	20817-327	
 04608118	6 U Height top		
	20817-330	20817-328	
 04608118	bottom		
	20817-329	20817-327	



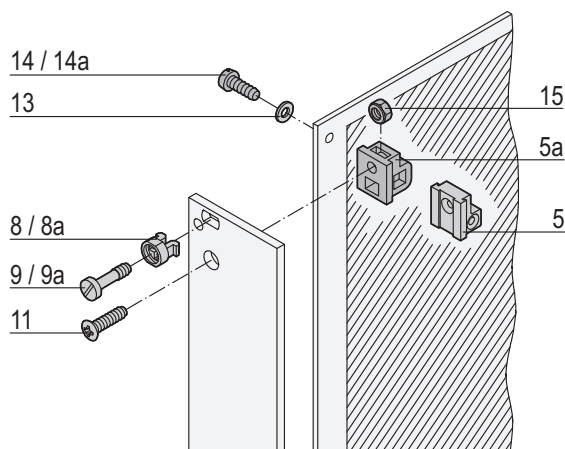
1) SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple

Plug-in units – for VME

INDIVIDUAL COMPONENTS

FIXING MATERIAL FOR TRAPEZIFORM EXTRACTOR HANDLE, TYPE 1

ORDER INFORMATION



bga42545

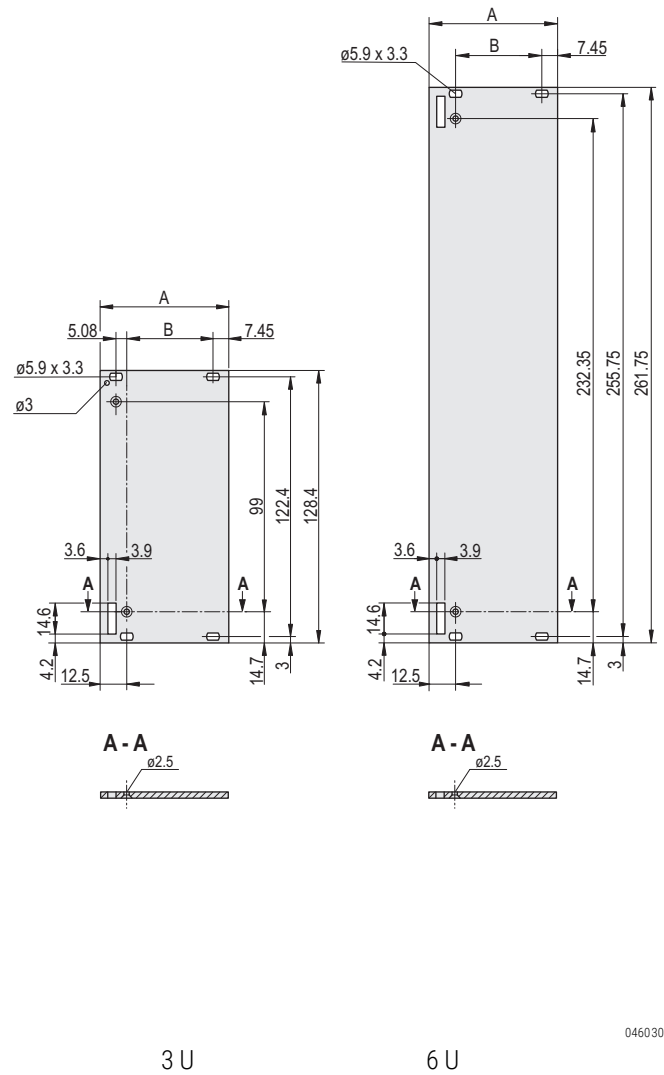
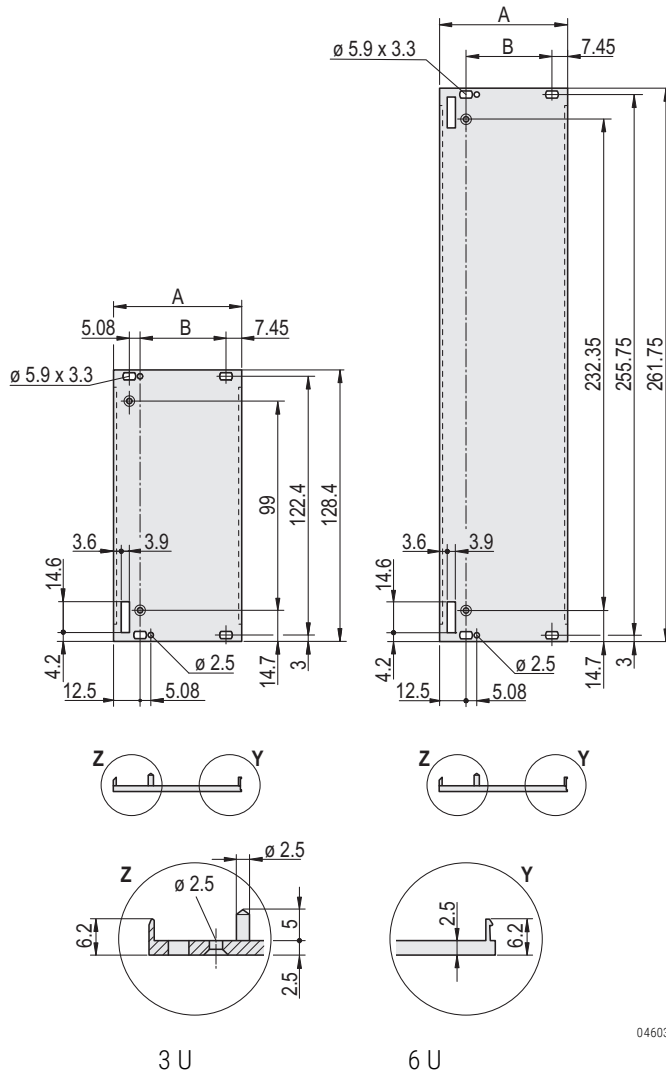
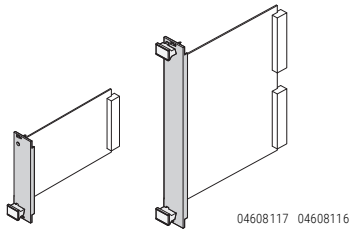
Fixing material	Item		Required Qty				Qty/PU	Part no.
			3 U		6 U			
			< 8 HP	≥ 8 HP	< 8 HP	≥ 8 HP		
Board support, die-cast zinc, with thread M2.5, for front panel and PCB fixing	5	 06707050	1	2	2	4	1 piece (SPQ 10) ¹⁾	60807-181
Board support, plastic, PBT, UL 94 V-0, grey, with recess for hexagon 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 steel	8a	 aza45934	2	4	–	–	100	21100-662
Collar screws pozidrive/slot (Philips) M2.5 x 12.3, St, nickel-plated	9	 AZA46586	2	4	2	4	100	21102-026
Pozidrive/slotted collar screw M2.5 x 12.3, St, nickel-plated	9a	 AZA46586	2	4	2	4	100	21101-101
Raised Pozidrive countersunk screw M2.5 x 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 x 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



Dimensions table

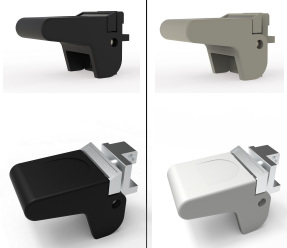
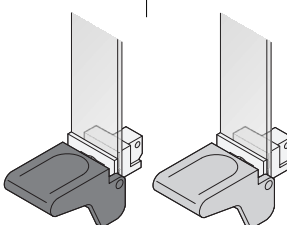
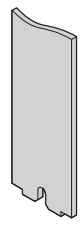
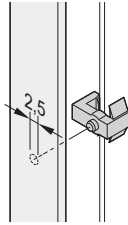
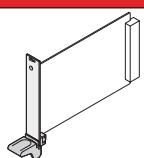
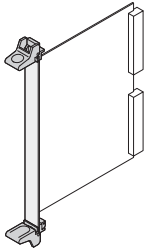
Width HP	A mm	B mm
4	19.98	-
5	25.06	-
6	30.14	-
7	35.22	-
8	40.30	20.32
10	50.46	30.48
12	60.62	40.64

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

INDIVIDUAL COMPONENTS

EXTRACTOR HANDLES IN KEY FORM 1

ORDER INFORMATION

	Extractor handle		Front panel	Fixing clip
	black, RAL 9005	grey, RAL 7035		
	  04608101 04608102 extractor handle in key form 1, PC, UL 94 V-0; bearing Zn die-cast, nickel-plated; cross recessed 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		–	21100-719
	20817-346	20817-326	–	
	bottom			
	20817-345	20817-325	–	
Dimensions see page	7.52	7.52	7.52	

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

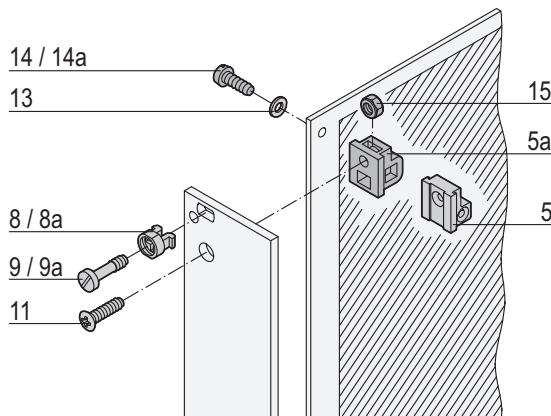
- Please order color screw separately 7.52

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

INDIVIDUAL COMPONENTS

FIXING MATERIAL FOR EXTRACTOR HANDLE IN KEY FORM 1

ORDER INFORMATION



bga42545

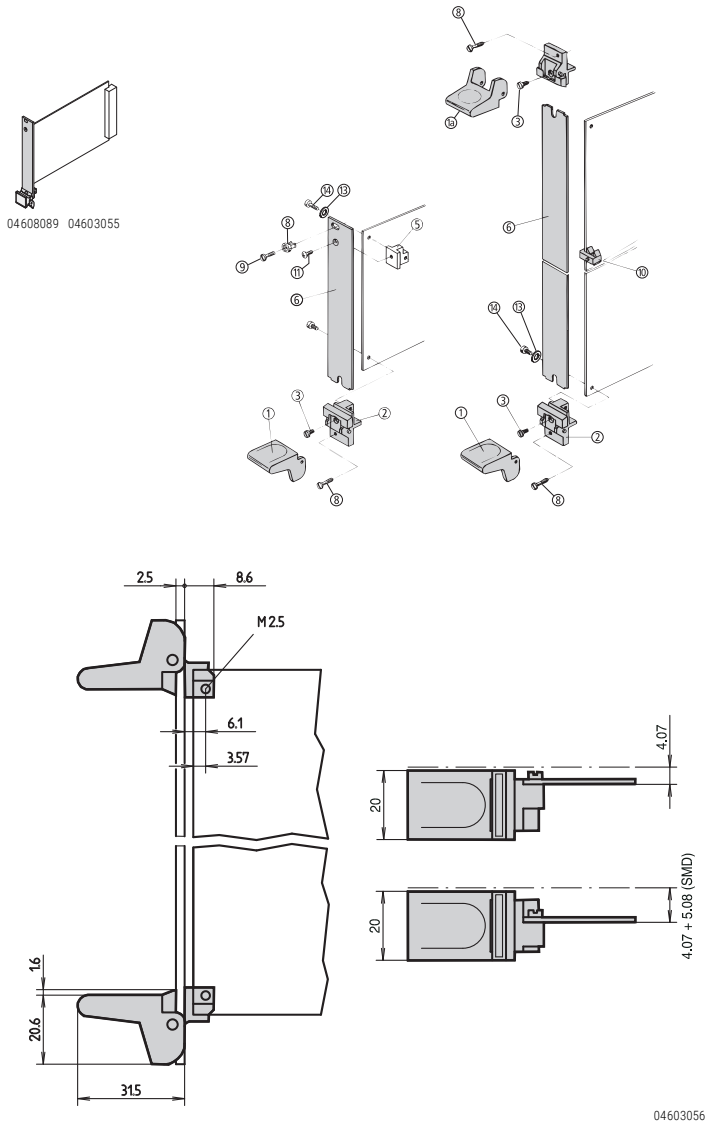
Fixing material	Item		Required Qty		Qty/PU	Part no.
			3 U	6 U		
Board support, die-cast zinc, with thread M2.5, for front panel and PCB fixing	5		1	–	1 piece (SPQ 10) ¹⁾	60807-181
Board support, plastic, PBT, UL 94 V-0, grey, with recess for hexagon nut M2.5, for fixing front panel	5a		1	–	1 piece (SPQ 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
Collar screws pozidrive/slot (Philips) M2.5 x 12.3, St, nickel-plated	9		2	2	100	21102-026
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

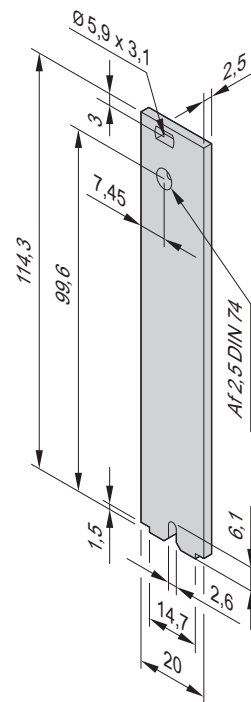
Plug-in units – for IEC 60297, key form 1

DIMENSIONS

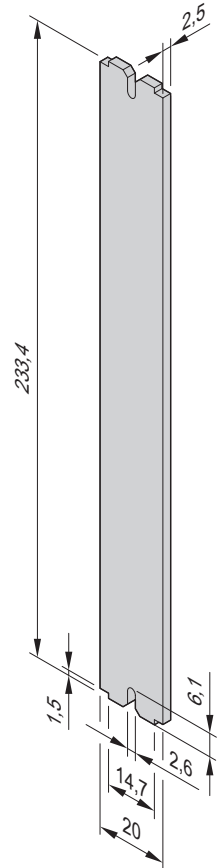
EXTRACTOR HANDLES/FRONT PANELS KEY FORM 1



04603056



3 U



6 U

04603057

Plug-in units – for IEC 60297, trapeziform

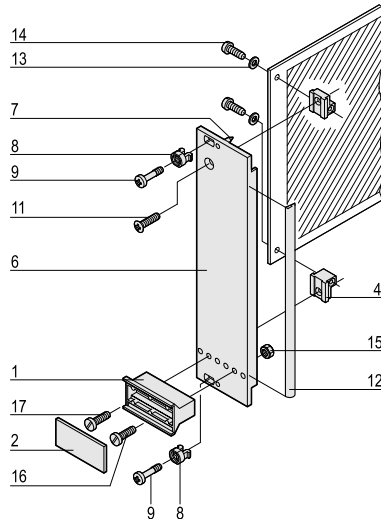
KITS

PLUG-IN UNIT WITH STATIC TRAPEZIFORM HANDLE



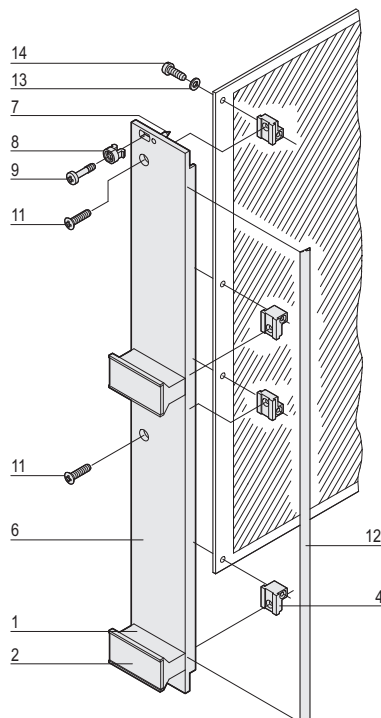
Remark: Delivery do not include the PCB

3 U



04602062

6 U



04602063

- Front panel, U-profile, shielded
- Handle without extraction function
- **Plastic Material:**
UL 94 V0, EN 45545-2, R22 - R24, HL3

DELIVERY COMPRISES

Item	Qty		Description
	3 U	6 U	
1	1	2	Plastic handle, trapeziform, PC, grey (RAL 7035)
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 x 12.3, front panel width up to 7 HP
9	4	4	Pozidrive/slotted collar screw, St, nickel-plated, M2.5 x 12.3, front panel width from 8 HP
11	1	2	Raised countersunk screw, St, nickel-plated, M2.5 x 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 x 10
15	1	2	Hexagon nut, St, nickel-plated, M2.5
16	1	2	Pozidrive flathead screw, St, nickel-plated, M2.5 x 12
17	1	2	Pozidrive flathead screw, St, nickel-plated, M2.5 x 16

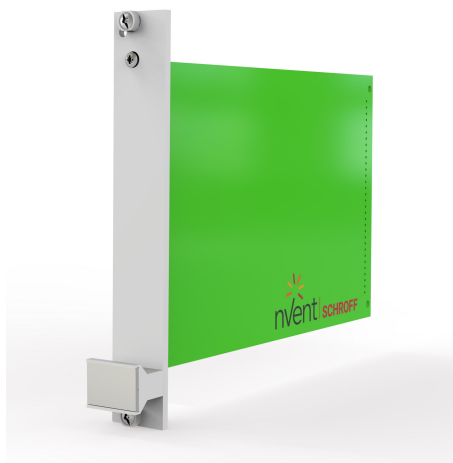
ORDER INFORMATION

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
1 kit, EMC gasket stainless steel, for U-shaped front panel, 3U, 10x	21102-105	
1 kit, EMC gasket stainless steel, for U-shaped front panel, 6U, 10x	21102-107	

Plug-in units – for IEC 60297, trapeziform

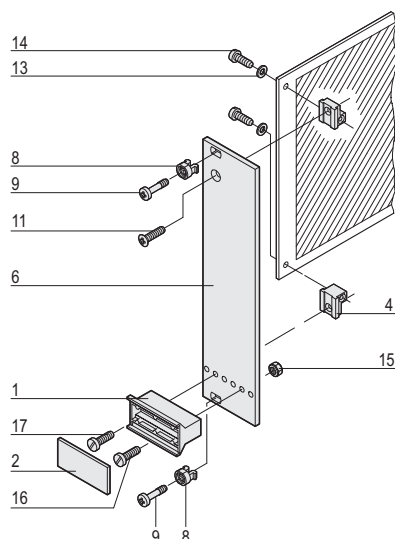
KITS

PLUG-IN UNIT WITH STATIC TRAPEZIFORM HANDLE



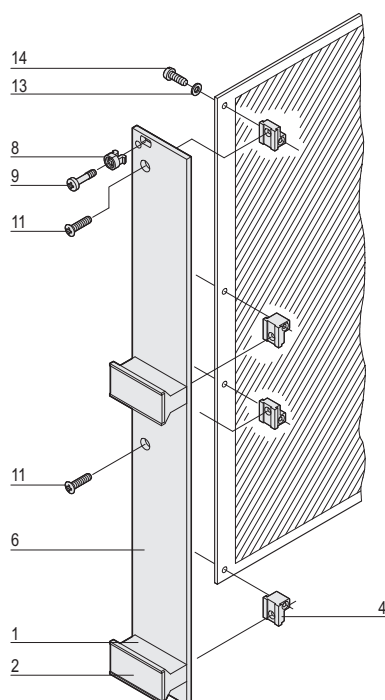
3 U

Remark: Delivery do not include the PCB



04602064

6 U



04602065

- Front panel unshielded
- Handle without extraction function
- **Plastic Material:**
UL 94 V0, EN 45545-2, R22 - R24, HL3

DELIVERY COMPRISES

Item	Qty	3 U	6 U	Description
1	1	2		Plastic handle, trapeziform, PC, grey (RAL 7035)
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 x 12.3, front panel width up to 7 HP
9	4	4		Pozidrive/slotted collar screw, St, nickel-plated, M2.5 x 12.3, front panel width from 8 HP
11	1	2		Raised countersunk screw, St, nickel-plated, M2.5 x 8
13	2	4		Washer, A2.7
14	2	4		Pozidrive flathead screw, St, nickel-plated, M2.5 x 8
15	1	2		Hexagon nut, St, nickel-plated, M2.5
16	1	2		Pozidrive flathead screw, St, nickel-plated, M2.5 x 12
17	1	2		Pozidrive flathead screw, St, nickel-plated, M2.5 x 16

ORDER INFORMATION

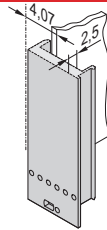
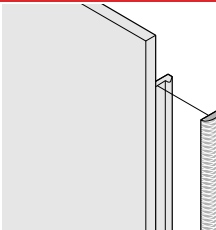
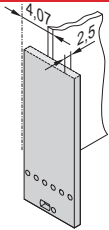
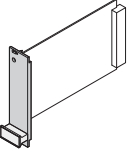
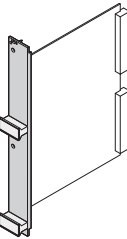
Width HP	3 U Part no.	6 U Part no.
3	20818-017	-
4	20818-018	20818-025
5	20818-019	20818-026
6	20818-020	20818-027
7	20818-021	20818-162
8	20818-022	20818-028
10	20818-023	20818-029
12	20818-024	20818-120

Plug-in units – for IEC 60297, trapeziform

**INDIVIDUAL
COMPONENTS**

FRONT PANELS FOR STATIC CANTILEVER HANDLES

ORDER INFORMATION

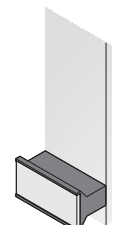
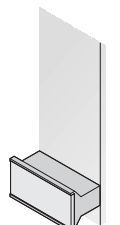
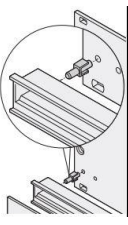
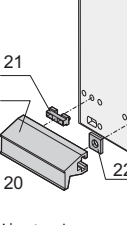
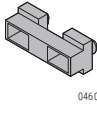
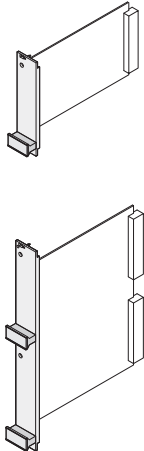
		Front panel, U-profile, shieldable		Front panel unshielded	
		Front panel, U-profile	Textile EMC gasket		
  U-Profile Front panel Flat Front panel		 04608130 Al extrusion, front anodised, rear conductive, alignment pin pressed-in, stainless steel	 bga45760 always fixed laterally on the front panel, in the groove of the profile, textile gasket, core: foam, sleeve: textile cladding with CuNi coating, UL 94 V-0, temperature range -40 ... 70 °C	 04608131 front panel, Al 2.5 mm; front anodised; rear iridescent green chromated	
Width HP		1 piece (SPQ 5) ¹⁾	PU 10 pieces	PU 100 pieces	
				1 piece (SPQ 5) ¹⁾	
3 U Height					
 04608126	3	30849-086	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		7.62			7.62

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 (RAL 9005)	Trapeziform handle light grey (RAL 7035)	Fixing clip	Handle	Fixing part for Al profile handle	Square nut
	item 20	item 21	item 22			
						
						
	Handle: PC, UL 94 V0; EN 45545-2, R22- R24, HL3 Identificationplate: 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		
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	
	61	–	20808-012	–	–	
1000 mm	–	–	–	30809-428	21100-476	21100-359
Fixing material see page	7.60 Item 15, 16, 17					
Dimensions see page	7.60	7.60		7.59	7.59	7.59

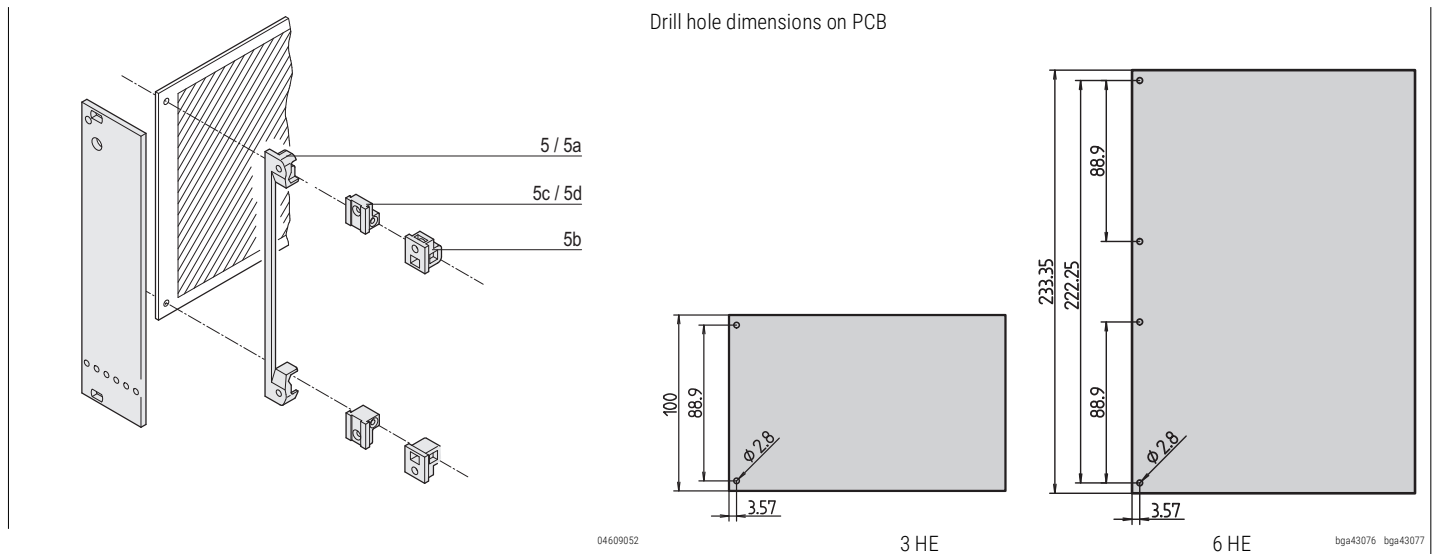
1) SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ);
 please order at least the SPQ quantity or a multiple

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

Plug-in units – for IEC 60297, trapeziform

INDIVIDUAL COMPONENTS

PCB BRACKET FOR STATIC TRAPEZIFORM HANDLE



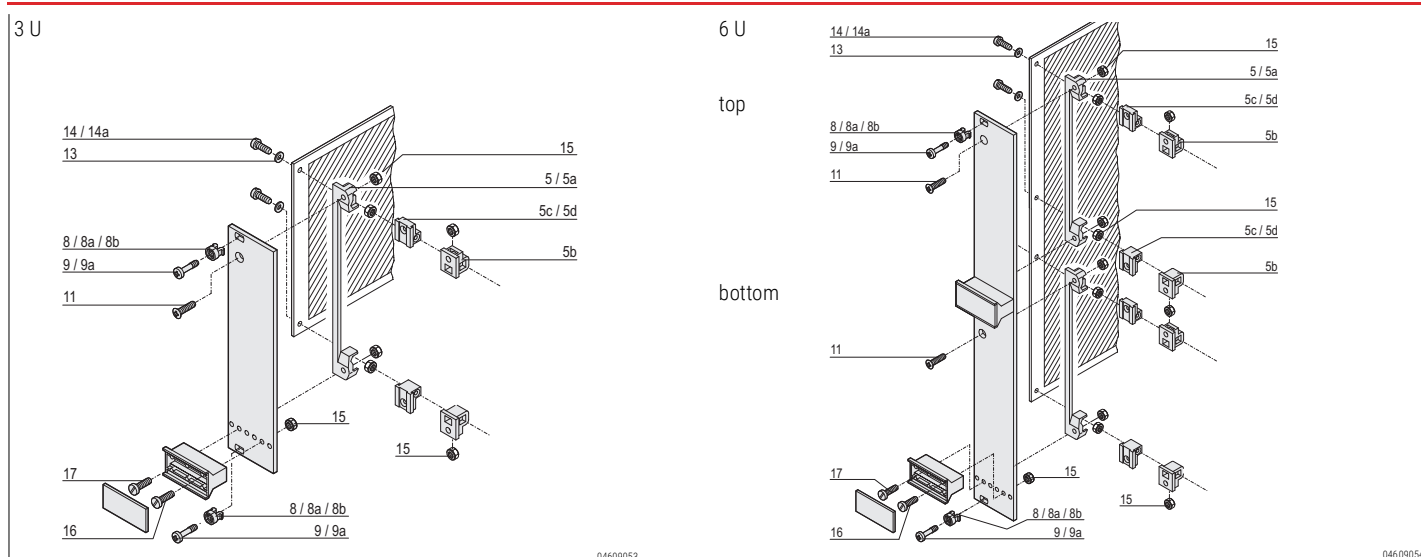
	Item		Required Qty		Qty/PU	Part no.
			3 U	6 U		
PCB bracket 4 clearance holes for front panel/PCB fixing, 4 recesses for hexagon nuts; PBT, UL 94 V-0, red	5		1	2	1 piece (SPQ 10) ¹⁾	60807-011
PCB bracket 4 threads M2.5 for front panel/PCB fixing, PBT, UL 94 V-0, grey, 1 piece	5a	 AZA45177	1	2	1 piece (SPQ 10) ¹⁾	60807-211
PCB bracket Clearance hole for front panel fixing, with recess for hexagon nut, drill hole for self-tapping screw for PCB fixing, PBT, UL 94 V-0, grey, 1 piece	5b	 AZA45177	2	4	1 piece (SPQ 10) ¹⁾	60807-183
PCB bracket 2 threads M2.5 for front panel/PCB fixing, die-cast zinc, 1 piece	5c	 06707050	2	4	1 piece (SPQ 10) ¹⁾	60807-181
PCB bracket Thread M2.5 for front panel fixing, clearance hole for PCB fixing, die-cast zinc, 1 piece	5d	 06707050	2	4	1 piece (SPQ 10) ¹⁾	60807-203

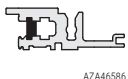
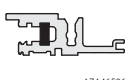
1) SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple

Plug-in units – for IEC 60297, trapeziform

INDIVIDUAL COMPONENTS

FIXING MATERIAL FOR STATIC TRAPEZIFORM HANDLE



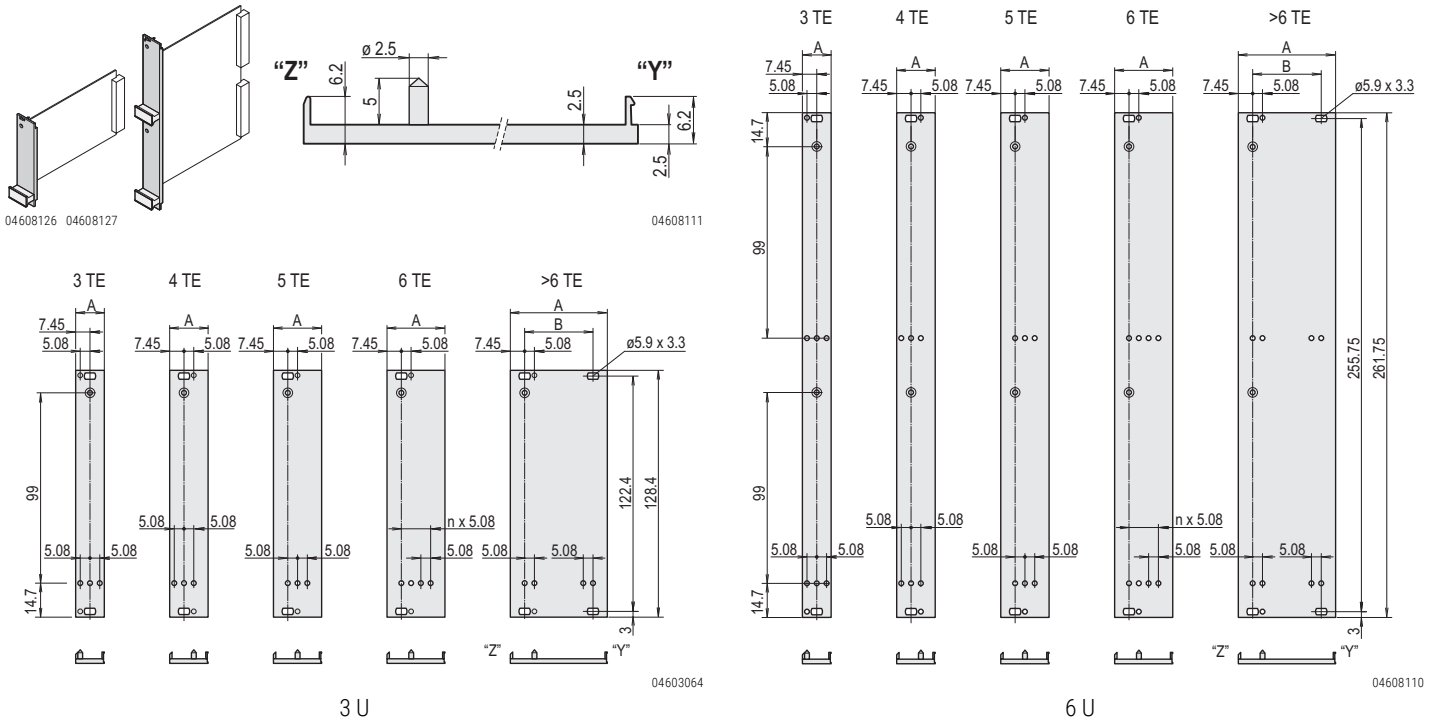
	Item		Required Qty				Qty/PU	Part no.
			3 U		6 U			
			< 8 HP	≥ 8 HP	< 8 HP	≥ 8 HP		
Plastic sleeve, for form hole 5.9 x 3.3 PA, UL 90 V-2, grey	8	 aza45933	2	4	2	4	100	21100-464
Metal sleeve, for form hole 5.9 x 3.3, press-in Stainless steel	8	 aza45934	2	4	2	4	100	21100-662
Metal sleeve, for form hole 5.9 x 3.3, to press-in Nickel-plated brass	8a	 aza45934	2	4	2	4	100	21100-660
Collar screws pozidrive/slot (Philips) M2.5 × 12.3, St, nickel-plated not for europacPRO and cases	9	 AZA46586	2	4	2	4	100	21102-026
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		1	1	–	–	100	21100-710
Hexagon nut M2.5, nickel-plated steel for items 5 and 5b	5 5b	 aza43239	4 2	4 2	8 4	8 4	100	21100-144
Pozidrive panhead screw M2.5 × 12, nickel-plated steel	16	 06702057	1	1	2	2	100	21101-221
Pozidrive panhead screw M2.5 × 16, nickel-plated steel	17	 06702057	1	1	2	2	100	21101-222

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

Plug-in units – for IEC 60297, trapeziform

DIMENSIONS

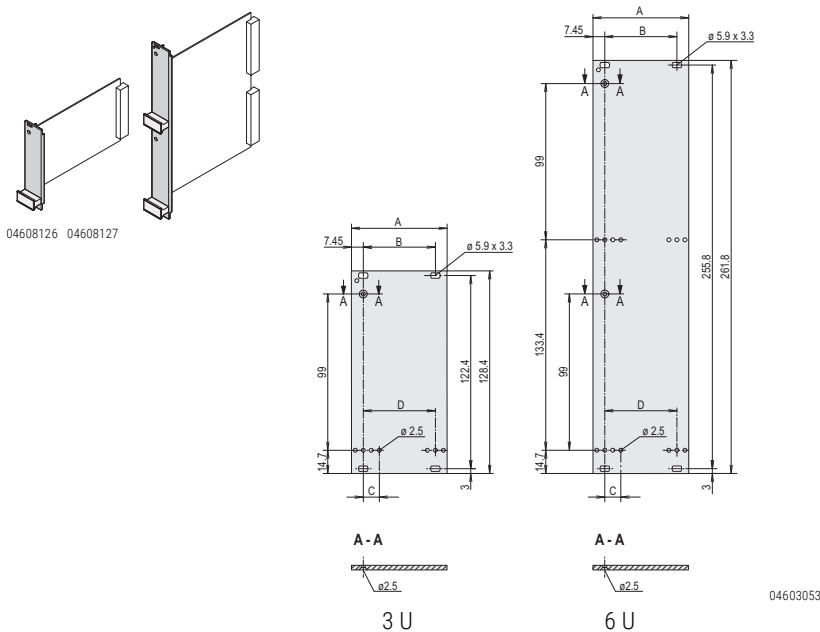
FRONT PANELS, U PROFILE, SHIELDABLE FOR STATIC TRAPEZIFORM HANDLE



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

DIMENSIONS

FRONT PANELS FOR STATIC TRAPEZIFORM HANDLE

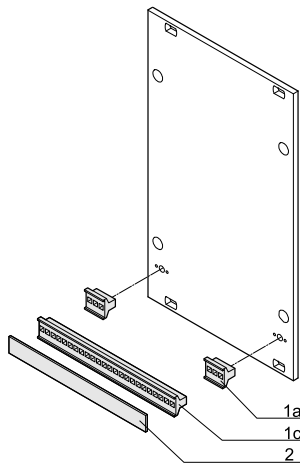


Dimensions table				
Width HP	A mm	B mm	C mm	D mm
3	14.90	-	-	-
4	19.98	-	-	-
5	25.06	-	10.16	-
6	30.14	-	-	15.24
7	35.22	-	-	20.32
8	40.30	25.40	-	25.40
10	50.46	35.56	-	35.56
12	60.62	45.72	-	45.72

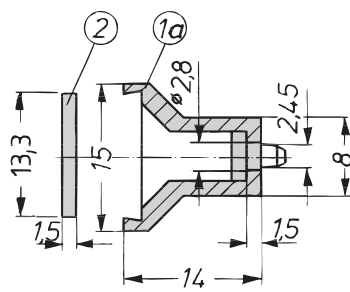
Plug-in units – for IEC 60297, trapeziform

DIMENSIONS

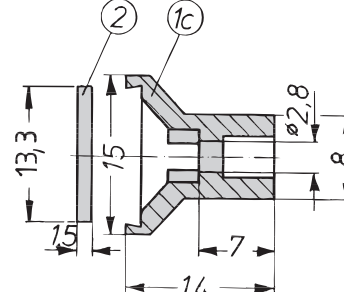
STATIC PLASTIC HANDLES, TRAPEZIFORM



BGA46447



A4-328a



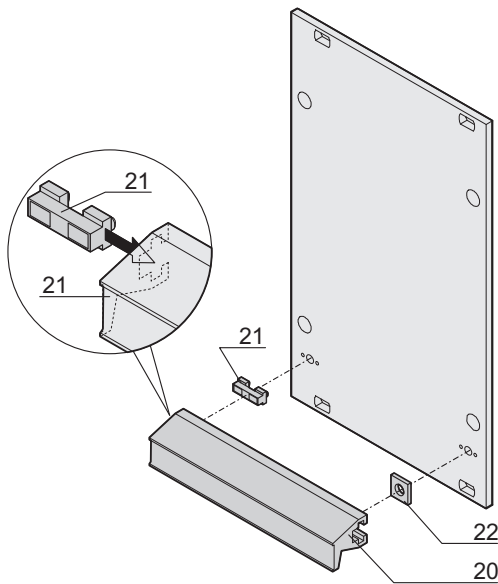
A4-328c

Dimensions table

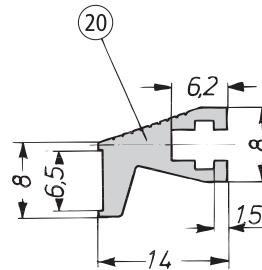
Item	Width HP	Width mm
1a	3	13.8
1a	4	18.9
1c	5	24.0
1c	6	29.0
1c	7	34.1
1c	8	39.2
1c	9	44.3
1c	10	49.4
1c	12	59.6
1c	14	69.7
1c	21	105.2
1c	28	140.8
1c	40	201.8
1c	42	212.0
1c	61	308.5

DIMENSIONS

ALUMINIUM EXTRUSION HANDLES



04602069



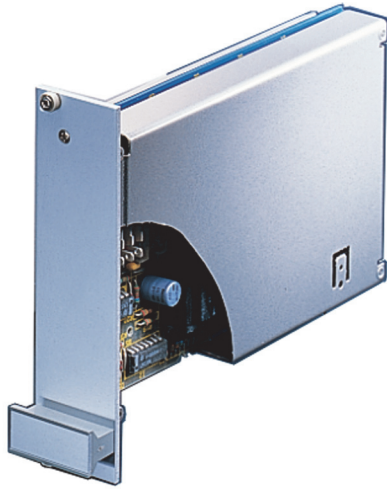
A4-328d

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

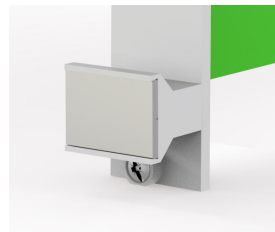
PLUG-IN UNIT WITH MECHANICAL SHIELDING, 3 U KITS



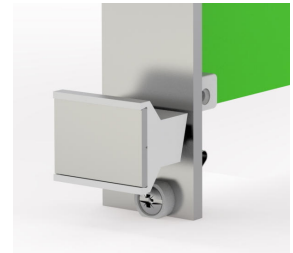
04694001

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

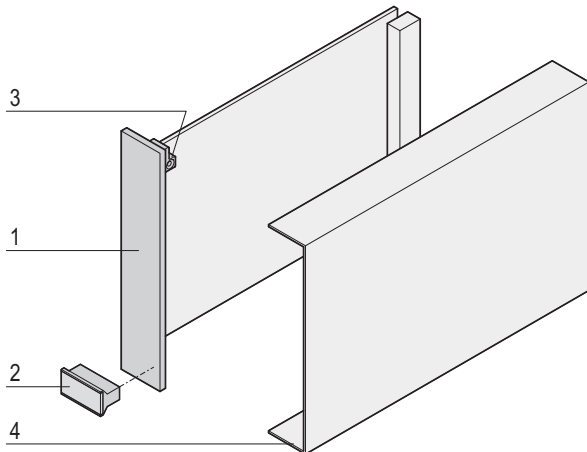
Handles
without extraction function



Handles
with extraction function



3 U KIT, SHIELDING COMPONENT SIDE



04602077

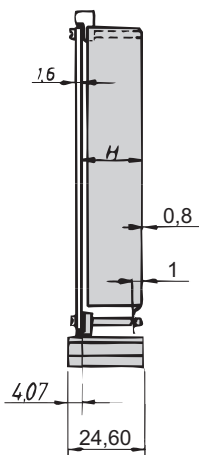
- Usable connectors in accordance with EN 60603 (DIN 41612):
Construction type B, C, D, F, H, R;

DELIVERY COMPRISES

Item	Qty	Description
4	1	Shielding panel component side for 6 HP front panel width, stainless steel, 0.8 mm

ORDER INFORMATION

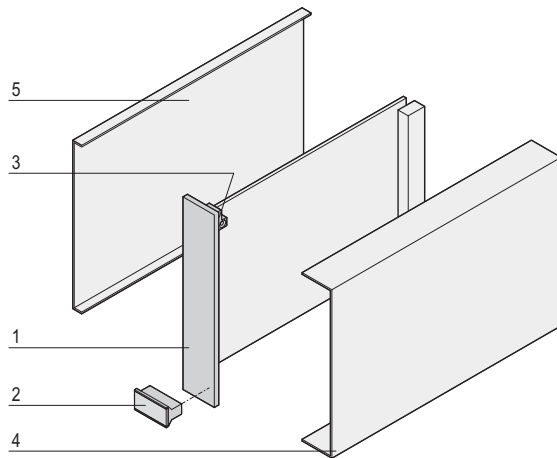
Description	Part No.
Shielding panel component side for 6 HP front panel width, stainless steel, 0.8 mm	20809-371



a4-237

Plug-in units – with mechanical shielding

3 U KITS, BOTH SIDES SHIELDED (SOLDER/COMPONENT SIDE)



04602078

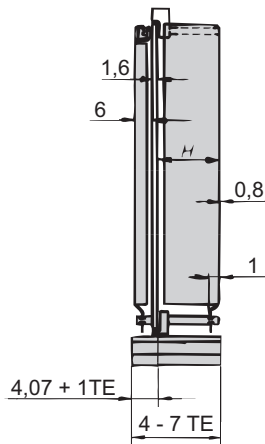
- Usable connectors in accordance with EN 60603 (DIN 41612): Construction type B, C, D, F, H, R;

DELIVERY COMPRISES

Item	Qty	Description
5	1	Shielding panel on solder side, stainless steel, 0.8 mm

ORDER INFORMATION

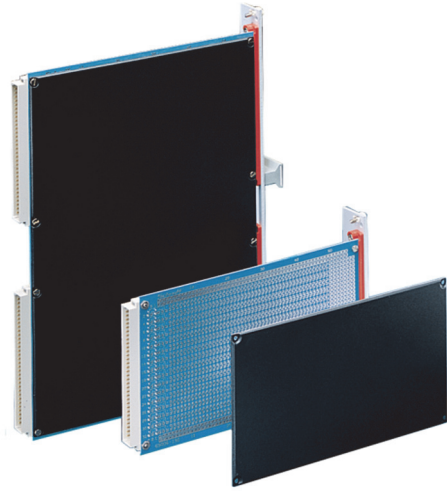
Description	Part no.
Shielding panel on solder side, stainless steel, 0.8 mm	30809-571



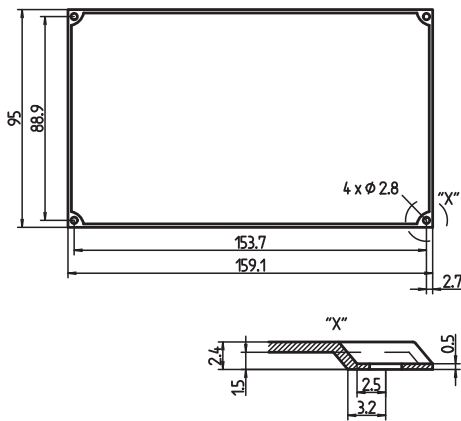
a4-236a

Plug-in units – with mechanical shielding

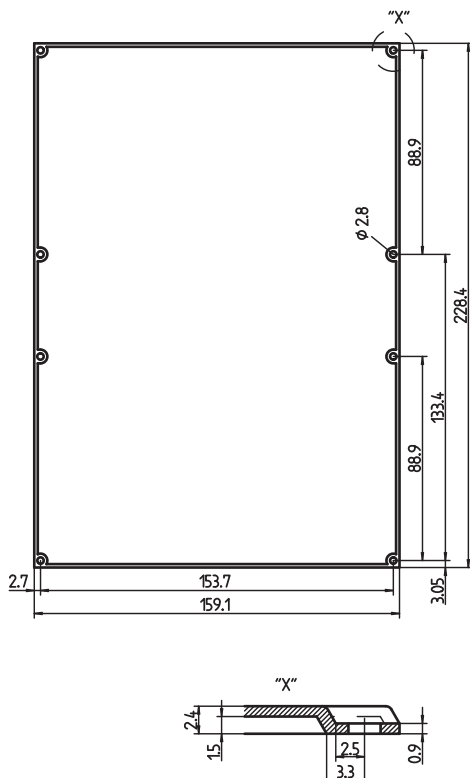
PCB COVER FOR EUROBOARDS



For PCBs 100 x 160 mm



For PCBs 233.35 x 160 mm



- 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

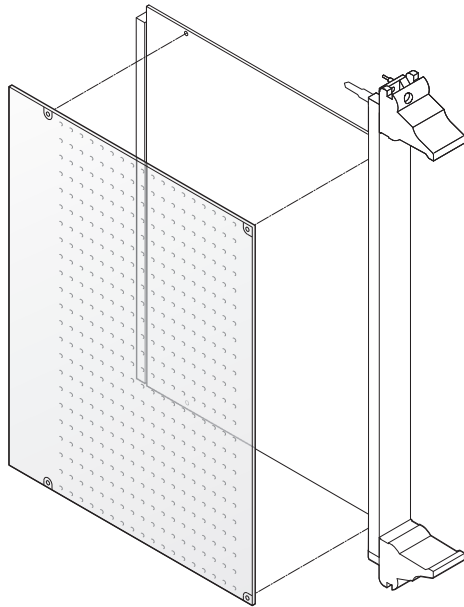
SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity: please order at least 10 pieces of PCB covers or a multiple

LKA40520

LKA30451

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

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