

Case 2.10.0 propac 2.11.0 ratiopac 2.12.0 cardpac 2.13.0 compac 2.14.0 protega 2.15.0 projet 2.16.0 Accessories 2.17.0

Subrack 2.20.0

19" chassis 2.50.0

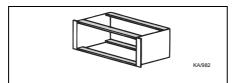
Modules 2.60.0

Accessories 2.70.0

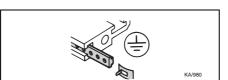
Appendix...... 2.80.0

Overview of Components Internal Mounting

For installation of partial width front panels, plug-in units and frame-type 5 plug-in units, you will need the following components; refer to:

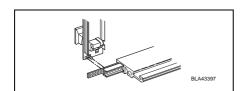


Horizontal rail, central rail and Z-rails



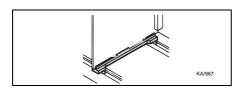
Threaded strip

■ For mounting components



Perforated strips

■ For centring shielded components



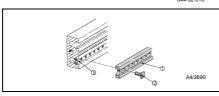
Guide rails for printed circuit boards

■ for engaging in horizontal rails



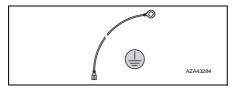
Z and perforated rails

■ For mounting of connectors complying with DIN 41612



Insulation strips, clips

■ For insulated mounting of components

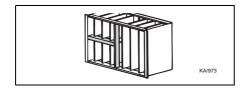


Earthing kit

■ Protective earth connection



Mounting parts



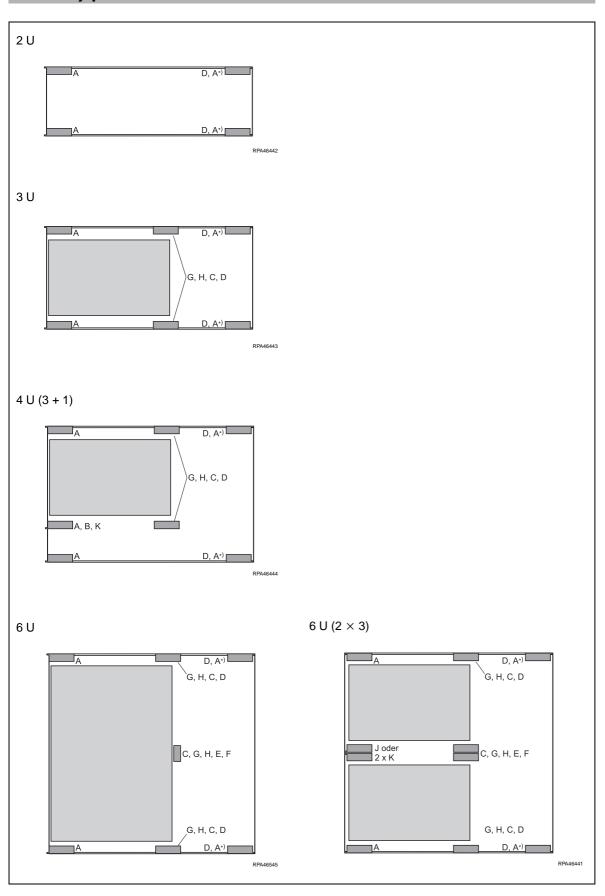
Subdivided extension

■ For mixed board installation

2.12.14 *5chroff* 06/2001



Assembly positions for horizontal rails



A* with ratiopac dual only

| Vasc |
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| Components Internal Mounting |

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extension2.36.17

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Subdivided

06/2001 *Schroff*



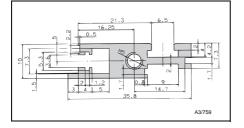
| 2.10.0 |
|--------|
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| 2.12.0 |
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19" chassis 2.50.0

Modules 2.60.0

Accessories 2.70.0

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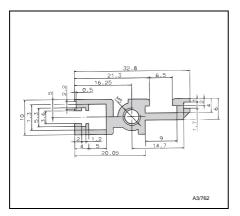


A, A* - Front horizontal rail with short lip

■ Horizontal rails A, A* are included with the case when delivered.

Note

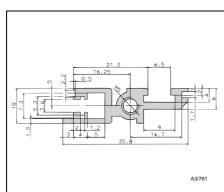
Horizontal rail A* with ratiopac dual only.



B - Front horizontal rail, without top lip

- Installation, top/bottom
- Version 84 HP is marked with HP details

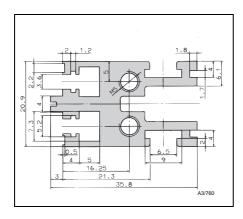
| Usable HP | Length mm | Order No. (1 piece) | | |
|-----------|-----------|-------------------------------|--------------------------------------|--|
| | | Aluminium extrusion, anodised | Aluminium extrusion, clear chromated | |
| 28 | 147,32 | 30818-059 | 30837-010 | |
| 42 | 218,44 | 30818-073 | 30837-024 | |
| 63 | 325,12 | 30818-094 | 30837-045 | |
| 84 | 431,80 | 30818-115 | 30837-066 | |



K - EMC front horizontal rail, with notch

- With lip
- With notches on both sides

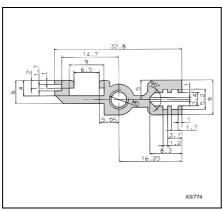
| Usable HP | Length mm | Order No. (1 piece) | |
|-----------|-----------|--------------------------------------|--|
| | | Aluminium extrusion, clear chromated | |
| 42 | 218,44 | 30837-292 | |
| 63 | 325,12 | 30837-313 | |
| 84 | 431,80 | 30837-334 | |



J - Front double horizontal rail, with notch

- With lip
- With notches on both sides

| Usable HP | Length mm | Order No. (1 piece) | |
|-----------|-----------|-------------------------------|--------------------------------------|
| | | Aluminium extrusion, anodised | Aluminium extrusion, clear chromated |
| 42 | 218,44 | 30825-637 | 30825-708 |
| 63 | 325,12 | 30825-658 | 30825-729 |
| 84 | 431,80 | 30825-679 | 30825-750 |

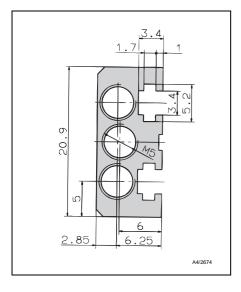


G - Rear horizontal rail

- For indirect mounting of backplanes
- An insulation strip is required for mounting. Please order separately

| Usable HP | Length mm | | |
|-----------|-----------|-------------------------------|--------------------------------------|
| | | Aluminium extrusion, anodised | Aluminium extrusion, clear chromated |
| 42 | 218,44 | 30818-143 | 30837-434 |
| 84 | 431,80 | 30818-185 | 30837-476 |

2.12.16 *Schroff* 06/2001

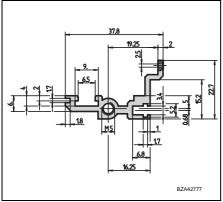


E - Rear horizontal rail, centre

- For indirect mounting of backplanes
- An insulation strip is required

| Usable HP | Length mm | Order No. (1 piece) |
|-----------|-----------|--------------------------------------|
| | | Aluminium extrusion, clear chromated |
| 20 | 106,68 | 30837-136 |
| 21 | 111,76 | 30837-137 |
| 40 | 208,28 | 30837-156 |
| 42 | 218,44 | 30837-158 |
| 60 | 309,88 | 30837-176 |
| 63 | 325,12 | 30837-179 |
| 84 | 431,80 | 30837-200 |

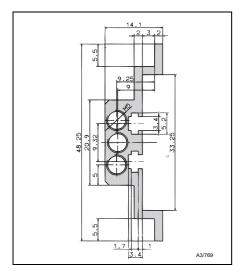
Order insulation strip separately



C - Rear horizontal rail with Z

- For direct mounting of connectors complying with DIN 41 612
- Version 84 HP is printed with HP details

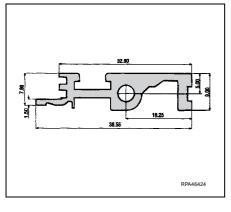
| Usable HP | Length mm | | | |
|-----------|-----------|-------------------------------|--------------------------------------|--|
| | | Aluminium extrusion, anodised | Aluminium extrusion, clear chromated | |
| 28 | 147,32 | 30819-469 | 30837-077 | |
| 42 | 218,44 | 30819-483 | 30837-091 | |
| 63 | 325,12 | 30819-504 | 30837-112 | |
| 84 | 431,80 | 30819-525 | 30837-133 | |



F - Rear horizontal rail, with Z, centre

■ For direct mounting of connectors complying with DIN 41 612

| Usable HP | Length mm | Order No. (1 piece) |
|-----------|-----------|--------------------------------------|
| | | Aluminium extrusion, clear chromated |
| 21 | 111,76 | 30837-204 |
| 40 | 208,28 | 30837-223 |
| 42 | 218,44 | 30837-225 |
| 63 | 325,12 | 30837-246 |
| 84 | 431,80 | 30837-267 |



D - Rear horizontal rail with integrated M 2.5 threads

■ In the "Case for backplanes" order variant, the horizontal rail is delivered with the case.



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| Case 2 U2.12.2 |
| Case 3 U2.12.3 |
| Case 4 U2.12.4 |
| Case 6 U2.12.5 |
| dual – case 3 U2.12.6 |
| dual – case 4 U2.12.7 |
| dual – case 6 U2.12.8 |
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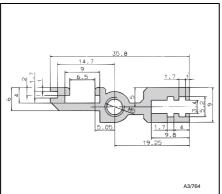
| Case | . 2.10.0 |
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| cardpac | 2.13.0 |
| compac | 2.14.0 |
| protega | 2.15.0 |
| projet | |
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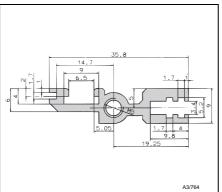


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|------|------|---|----|------|
| | | | | |

Accessories 2.70.0

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H - Rear horizontal rail with recessed mounting plane (+3 mm)

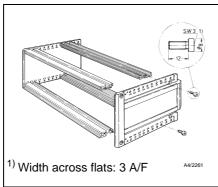
- For direct mounting of backplanes
- No insulation strips are required for mounting

| Usable HP | Length mm | Order No. (1 piece) | |
|-----------|-----------|-------------------------------|--------------------------------------|
| | | Aluminium extrusion, anodised | Aluminium extrusion, clear chromated |
| 84 | 431,80 | 30818-822 | 30837-929 |

J - Rear horizontal rail, centre

■ For direct mounting of backplanes

| Usable HP | Length mm | Order No. (1 piece) |
|-----------|-----------|--------------------------------------|
| | | Aluminium extrusion, clear chromated |
| 84 | 431,80 | 30837-915 |



Screws for horizontal rail mounting

■ For mounting additional horizontal rails

| Order no. 21101-05 |
|---------------------------|
|---------------------------|

Delivery comprises

| Qty | Description | Material | Surface |
|-----|--|----------|-------------|
| | Cheesehead screw with hexagon socket and low head M 5 × 12 | steel | zinc-plated |

Threaded insert, standard, M 2.5

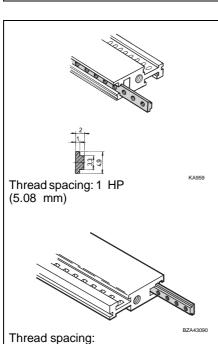
■ Can be used for all horizontal rails

| Usable HP | Length mm | Order No. |
|-----------|-----------|-----------|
| 9 | 50,3 | 30819-669 |
| 20 | 106,2 | 30819-658 |
| 28 | 146,8 | 30819-650 |
| 40 | 207,8 | 30819-638 |
| 42 | 217,9 | 30819-636 |
| 60 | 309,4 | 30819-618 |
| 63 | 324,6 | 30819-615 |
| 84 | 431,3 | 30819-594 |

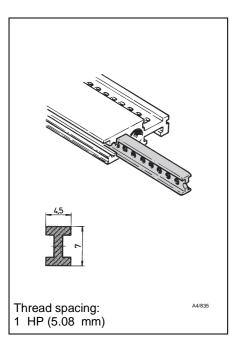
Delivery comprises

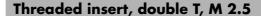
| Item | Qty | Description | Material | Surface |
|------|-----|----------------|---------------|-------------|
| 1 | 1 | Threaded strip | Steel section | zinc-plated |

The collar screws for mounting partial width front panels must be 11.0 mm long.



1 HP (5.08 mm)





- Can only be used for front horizontal rails
- Extended mounting possibility for other assemblies

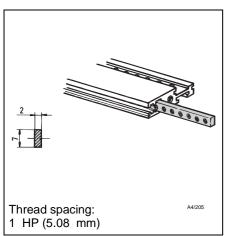
| Usable HP | Length mm | Order No. |
|-----------|-----------|-----------|
| 28 | 146,8 | 30829-035 |
| 42 | 217,9 | 30829-049 |
| 63 | 324,6 | 30829-070 |
| 84 | 431,3 | 30829-091 |

Delivery comprises

| Qty | Description | Material | Surface |
|-----|----------------|---------------|-------------|
| 1 | Threaded strip | Steel section | zinc-plated |

Note

The collar screws for mounting partial width front panels must be 12.3 mm long.



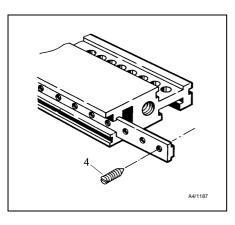
Threaded insert, M 3

- Can only be used for front horizontal rails
- M 3 does not conform to the 19" standard

| Usable HP | Length mm | Order No. |
|-----------|-----------|-----------|
| 84 | 431,3 | 30821-589 |

Delivery comprises

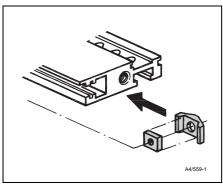
| Qty | Description | Material | Surface |
|-----|----------------|---------------|-------------|
| 1 | Threaded strip | Steel section | zinc-plated |



Grub screw

- For fixing the threaded insert
- Required for conductive connections in the case of anodised horizontal rails

| Description | Thread | Order no. | |
|-------------|--------|-------------|--------------|
| | | (20 pieces) | (100 pieces) |
| Grub screw | M 2.5 | 21100-275 | 21100-276 |
| DIN 553 | M 3 | - | 21100-646 |
| | | | |



Slide nut

- Alternative to threaded insert
- Mounting possibility on front horizontal rail

Material: Square nut made of steel; slide made of polyamide

| Dimension | | Surface | Square nut with slide | |
|-----------|------|---------------|-----------------------|-----------|
| | | | Pieces | Order No. |
| M 2.5 | SW 5 | nickel-plated | 100 | 21100-425 |
| | SW 7 | zinc-plated | 100 | 21100-112 |
| М 3 | SW 7 | zinc-plated | 100 | 21100-289 |



| Case |
|-----------------------|
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| Case 3 U2.12.3 |
| Case 4 U2.12.4 |
| Case 6 U2.12.5 |
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| dual - case 4 U2.12.7 |
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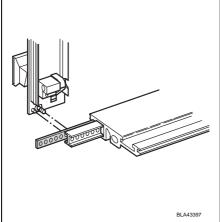
extension2.36.17

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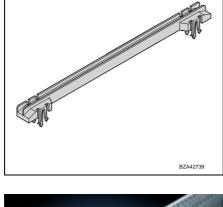


| Case 2.10.0 |
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| cardpac2.13.0 |
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Appendix...... 2.80.0



BZA42739



Perforated strips

■ For centering the shielded plug-in units, front panels and rear panels via guide dowels

| Usable HP | Length mm | Order No. |
|-----------|-----------|-----------|
| 42 | 218,44 | 30845-211 |
| 63 | 325,12 | 30845-232 |
| 84 | 431,80 | 30845-253 |

Delivery comprises

| Qty | Description | Material |
|-----|-------------------|----------|
| 1 | Perforated strips | Al 1 mm |

Guide rail for printed circuit boards

■ Standard version for engaging in horizontal rails

| Board height mm | Groove width mm | Material | Colour | Order no. (1 piece) |
|-----------------|-----------------|----------------|--------|------------------------|
| 160 | 2 | PBTP UL 94 V-0 | grey | 60817-103 |
| 220 | 2 | PBTP UL 94 V-0 | grey | 60817-149 |

Note

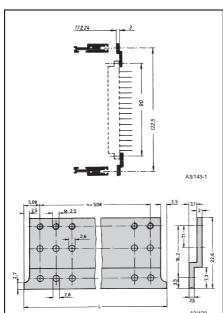
For further guide rails, refer to Chapter, Subracks, europac accessories - guide rail



Z and perforated rails

For mounting of connectors complying with

- EN 60603 (DIN 41 612)
- DIN 41 617



Z-rails

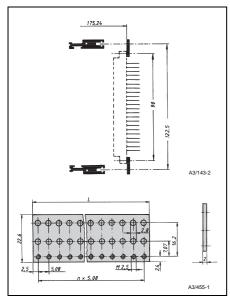
■ For connectors as per EN 60603

| Usable HP | Length mm | Order No. |
|-----------|-----------|-----------|
| 40 | 203,2 | 30822-045 |
| 60 | 304,8 | 30822-065 |
| 84 | 426,7 | 30822-089 |

Delivery comprises

| Qty | Description | Material | Surface |
|-----|-------------|----------|----------|
| 1 | Z-rails | Al | anodised |

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Perforated rail

■ For connectors as per EN 60603

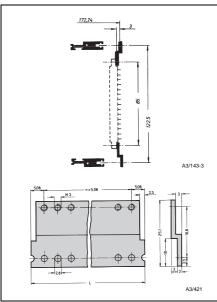
| Usable HP | Length mm | Order No. |
|-----------|-----------|-----------|
| 30 | 152,4 | 30822-201 |
| 40 | 203,2 | 30822-202 |
| 60 | 304,8 | 30822-204 |
| 84 | 426,7 | 30822-206 |

Note

Standardised space only in connection with (rear) horizontal rail with recessed mounting plane.

Delivery comprises

| Qty | Description | Material | Surface |
|-----|-----------------|----------|----------------|
| 1 | Perforated rail | Al | clearchromated |



Z-rails

■ For connectors as per DIN 41 617

| Usable HP | Length mm | Order No. |
|-----------|-----------|-----------|
| 40 | 203,2 | 30819-763 |
| 60 | 304,8 | 30819-783 |
| 84 | 426,7 | 30819-808 |

Delivery comprises

| Qty | Description | Material | Surface |
|-----|-------------|----------|----------|
| 1 | Z-rails | Al | anodised |

Assembly kit for Z- and perforated rails

■ Mounting is by means of threaded inserts or slide nuts

| Description | Remarks | Order No. |
|---|--|-------------------------------|
| Square nut with slide M 2.5 | | 21100-425 (100 pieces) |
| Threaded insert M 2.5; 84 HP | | 30819-594 (1 piece) |
| Cylinder head screw with slot M 2.5 | for central rail with central threaded hole | 21100-146 (100 pieces) |
| Cylinder head screw with slot M 2.5 × 5 | for horizontal rail with 2 or 3 threaded holes and Z- or perforated rail for connectors as per DIN 41 612, 41 617 | 21100-624 (100 pieces) |

Note

For other part lengths, refer to Threaded inserts or insulation strips.



| Case |
|---|
| Case 2 U2.12.2 |
| Case 3 U2.12.3 |
| Case 4 U2.12.4 |
| Case 6 U2.12.5 |
| dual – case 3 U2.12.6 |
| dual – case 4 U2.12.7 dual – case 6 U2.12.8 |
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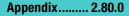
06/2001 *Schroff* 2.12.21

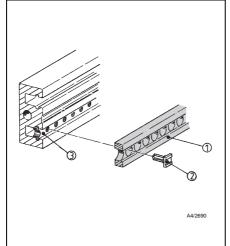


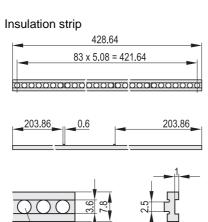
| Case | . 2.10.0 |
|-------------|----------|
| propac | 2.11.0 |
| ratiopac | 2.12.0 |
| cardpac | 2.13.0 |
| compac | 2.14.0 |
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| projet | 2.16.0 |
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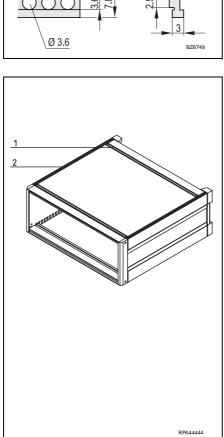


Accessories 2.70.0









Insulation strip

- For insulated mounting of backplanes or mounting metal plates as holders for connectors
- Setting up standardised mounting depth for plug-in units in the subrack

| Usable HP | Length mm | Order No. |
|-----------|-----------|--------------------|
| 20 | 101,5 | 30835-109 |
| 28 | 144,2 | 30835-110 |
| 42 | 210,2 | 6081 <i>7</i> -118 |
| 84 | 428,6 | 60817-061 |

Delivery comprises

| Item | Qty | Description | Material | Colour |
|------|-----|------------------|----------------|--------|
| 1 | 1 | Insulation strip | PBTP UL 94 V-0 | grey |

Clips

For fixing the insulation strip (Item 1) on the threaded insert (Item 3).

| Item | Description | Order No. |
|------|-------------|-----------|
| 2 | Clips | 21100-824 |

Delivery comprises

| Item | Qty | Description | Material | Colour |
|------|-----------|-------------|---------------|--------|
| 2 | 100 units | Clips | PPO UL 94 V-0 | red |

EMC contact strip

EMC contract strips are always needed for EMC extension of ratiopac and ratiopac dual.

For sealing between:

- Horizontal rails and cover plate
- Side panels and cover plate

Note

EMC contact strips are always needed for extension with EMC full-width front panels.

| Case depth HP | Order No. (1 kit) |
|---------------|-------------------|
| 42 | 20842-938 |
| 63 | 20842-939 |
| 84 | 20842-940 |

Delivery comprises

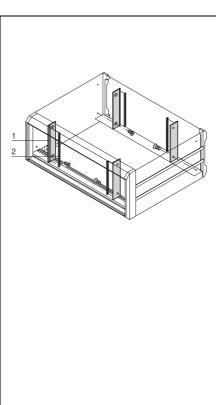
| Item | Qty | Description | Material |
|------|-----|---------------|-----------------|
| 1 | 4 | Contact strip | Stainless steel |
| 2 | 4 | Contact strip | Stainless steel |

Delivery: In kit form

2.12.22 5chroff 06/2001







EMC contact strip

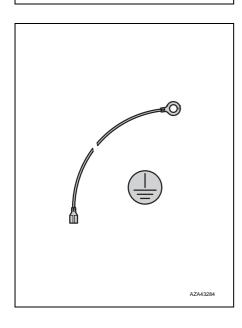
■ EMC contact strips are also needed as well as the EMC sealing kit for extension with EMC full-width front panels

| Case height U | Use | Requirement | Order No. |
|---------------|--|------------------|-----------|
| 2 | Front and rear mounting dual | 1 set/kit each | 20845-840 |
| 3 | Front and rear mounting dual | 1 set/kit each | 20845-841 |
| 4 | Front and rear mounting dual | 1 set/kit each | 20845-843 |
| 6 | Front or rear mounting dual with 6 U | 1 set/kit each | 20845-844 |
| | Front or rear mounting dual with 2 × 3 U | 2 kits/sets each | 20845-841 |

Delivery comprises

| Item | Qty | Description | Material | Remarks |
|------|-------|-------------------|---------------------|------------------------------|
| 1 | 1 | Contact strip | Aluminium extrusion | 1 kit/set "Contact strip" |
| 2 | 1 | EMC contact strip | Stainless steel | |
| _ | 1 Set | Mounting parts | | |

Delivery: Kit



Earthing kit

Establishes earth connections between side panels, base and cover plates and rear panel.

The earth connections comply with:

- EN 50178 / VDE 0160
- ■EN 60 950 / VDE 0805,
- EN 61 010 Part 1 / VDE 0411 Part 1

Compliance performed at VDE.

| Description | Order No. (1 kit) |
|--------------|-------------------|
| Earthing kit | 21101-033 |

Delivery comprises

| Qty | Description | Material | Surface |
|-------|-------------|---|--------------|
| 1 kit | | Cu wire 1.5 mm ² PVC sleeve | green/yellow |

| Case | |
|-----------------|--------|
| Case 2 U | 2.12.2 |
| Case 3 U | 2.12.3 |
| Case 4 U | 2.12.4 |
| Case 6 U | 2.12.5 |
| dual – case 3 U | 2.12.6 |
| dual – case 4 U | 2.12.7 |
| dual – case 6 U | 2.12.8 |
| | |

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| panel2.12.1 |
| Full-width rear |
| panel2.12.1 |
| EMC full-width rear |

panel2.12.12

components for EMC

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| EMC contact | |
|-------------|---------|
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Earthing kit2.12.23 **Accessories**

| Cable holder | .2.12.24 |
|--------------|----------|
| Handles | .2.12.24 |

| Mounting | parts | 2. | 17. |
|-----------|-------|-----|-----|
| Subdivide | d | | |
| extension | | 2.3 | 6 1 |

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Case 2.10.0 propac 2.11.0 ratiopac 2.12.0 cardpac 2.13.0 compac 2.14.0 protega 2.15.0 projet 2.16.0 Accessories 2.17.0

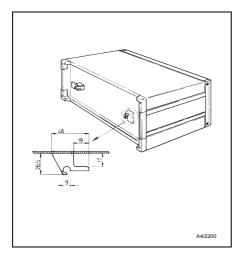
Subrack 2.20.0 19" chassis..... 2.50.0

| Modules | . 2.60 .0 | l |
|---------|------------------|---|
|---------|------------------|---|

Accessories 2.70.0

Appendix...... 2.80.0

ratiopac - Accessories



Cable holder

| 2-109 |
|-------|
| |

Delivery comprises

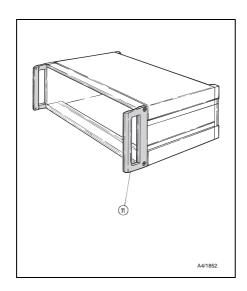
| Qty | Description | Material | Surface | Remarks |
|---------|----------------------|------------------|----------------------|--|
| 2 units | Cable bracket | ABS UL 94 V-0 | coloured RAL 7030 | Notch device for cable between 8 mm and 12 mm |
| 1 | Drilling template | | | Two holes must be drilled in the rear panel for each bracket |
| 1 Set | Mounting parts | | | |

Delivery: Kit

Handles

Choose between:

- Front handles
- Strap handle
- Tip-up carrying handle



Front handle

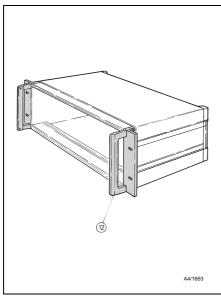
| Description | Case height U | Order No. (1 kit) |
|--------------|---------------|-------------------|
| Front handle | 2 | * |
| | 3 | 20842-058 |
| | 4 | 20842-061 |
| | 6 | * |

Available on request

Delivery comprises

| Qty | Description | Material | Surface |
|----------|----------------|-------------------|---------------------------|
| 2 pieces | Front handle | Diecast aluminium | powder-coated, RAL7030 |
| 1 kit | Mounting parts | | |

Delivery: In kit form



Front handle with 19" mounting bracket

| Description | Case height U | Order No. (1 kit) | |
|----------------------|---------------|-------------------|--|
| Front handle with | 2 | 20842-056 | |
| 19" mounting bracket | 3 | 20842-059 | |
| | 4 | 20842-062 | |
| | 6 | 20842-065 | |

Delivery comprises

| Qty | Description | Material | Surface |
|----------|--|-------------------|---------------------------|
| 2 pieces | 19" mounting bracket with front handle | Diecast aluminium | powder-coated, RAL7030 |
| 1 kit | Mounting parts | | |

Delivery: In kit form

Note

No slide rails can be used for installation in cabinets and 19" cases.

2.12.24 *5chroff* 06/2001

ratiopac - Accessories



Strap handle

- Can be retrofitted without mechanical reworking of the case
- Load-carrying capacity 20 kg

| Description | Enclosure depth | Order No. for case height | |
|--------------|-----------------|---------------------------|-----------|
| | mm | 3 U | 4 U |
| Strap handle | 266 | * | * |
| | 326 | 20842-100 | 20842-105 |
| | 386 | 20842-101 | 20842-106 |
| | 446 | * | * |

*

Available on request

Delivery comprises

| Qty | Description | Material | Surface |
|-------|----------------------|---------------------------------------|------------------|
| 1 | | Steel spring (flexible plastic, grey) | plastic-sheathed |
| 1 | Cover for side panel | Steel plate | painted RAL 7035 |
| 1 Set | Mounting parts | | |

Delivery: In kit form

Tip-up carrying handle

- Handle bar, plastic-sheathed
- For ratiopac case 3 U
- Can be retrofitted without mechanical reworking of the case
- Handle bar can be adjusted in grid of 30° by pressing button
- Load-carrying capacity 25 kg

| Description | Case height U | Case width HP | Order No. |
|------------------|---------------|---------------|-----------|
| Handle bar | 3 | 42 | 20842-387 |
| plastic-sheathed | | 63 | 20842-388 |
| | | 84 | 20842-389 |

Note

Anodised handle bar available on request.

Delivery comprises

| Qty | Description | Material | Surface | Remarks |
|-------|------------------|---------------------|-------------------------|-----------------------------------|
| 1 | Handle bar | Aluminium extrusion | plastic- sheathed | Surface depending on design |
| 2 | Handle side part | Diecast zinc | Satin chrome- plated | |
| 2 | Safety insert | St 1.5 mm | black | |
| 1 kit | Mounting parts | | | |

Delivery: In kit form

Note

Order assembly kit for mounting handle separately.

Assembly kit for mounting handle

| Description | Case height U | Case depth U | Order No. |
|--------------|---------------|--------------|-----------|
| Assembly kit | 3 | 266 | 20842-399 |
| | | 326 | 20842-400 |
| | | 386 | 20842-401 |



| Case |
|--|
| Case 2 U2.12.2 |
| Case 3 U2.12.3 |
| Case 4 U2.12.4 |
| Case 6 U2.12.5 |
| dual – case 3 U2.12.6 |
| dual – case 4 U2.12.7 |
| dual – case 6 U2.12.8 |
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extension2.36.17

