

19" COMPACT RACK

by knürr

www.knuerr-smaract.com

smaract®

**Network and server rack
Compact 19" technology construction
Passive and active components**



knürr
environments for electronics

Innovation today: smaract®



The Knürr **smaract**® Compact Rack is not just a further development of the LAN racks that we already know and that have been proven in use for some time now; it is, in fact, more of a specific response to the requirement for decentralized networking in the company:

smaract® stands for an innovative and practical total concept with extremely low spatial demands. High-grade flexibility and especially high-performance!

At the same time it is also integration-enabled, can be expanded at any time and is rich in impressive detailed solutions.

In brief: An ideal 19" platform for compact construction in various models that meet IP and EMC requirements.



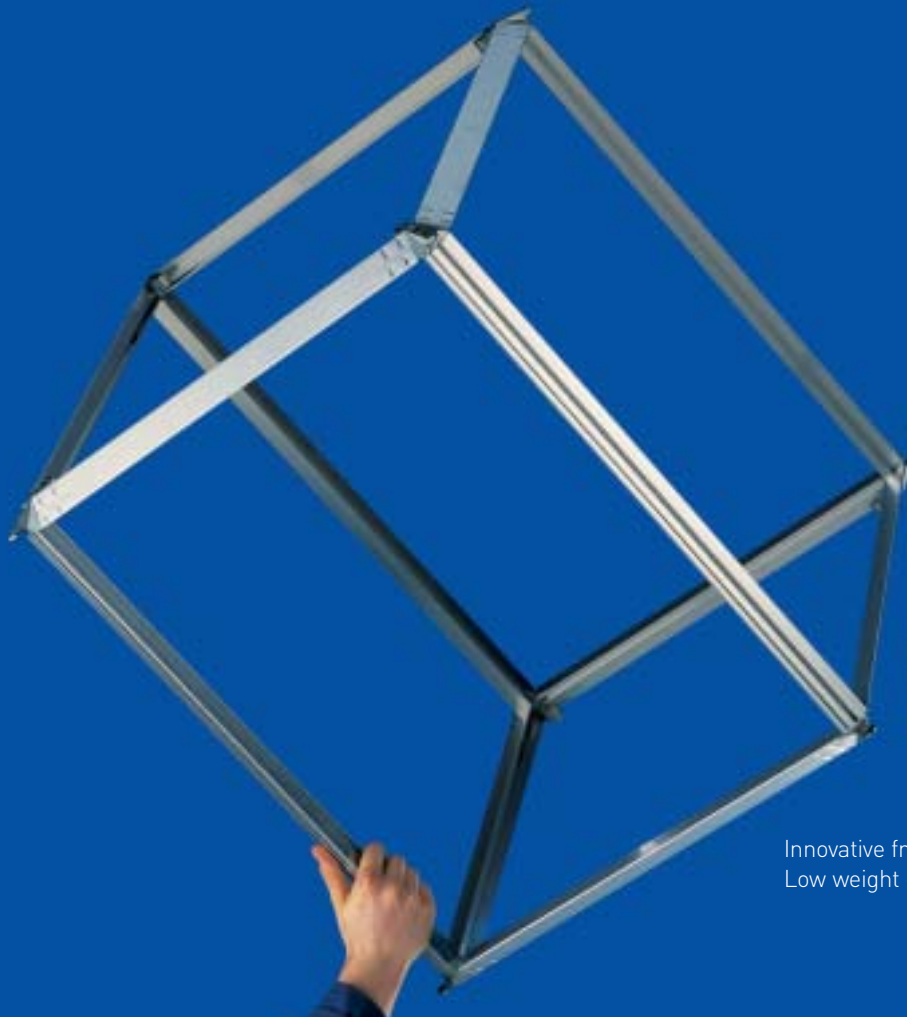
DataCenter
InfraStructure®

Features

- Not a single cubic centimetre is wasted with the smaract® Compact Rack. The innovative frame concept with triangular extrusions keeps weight low and stability high.
- The patented mounting hole rails in the 19" extrusion ensure installed active and passive components can be quickly and easily positioned.
- The smaract doors and side covers can be opened with an angle of over 180° and the side covers can be removed in seconds with the special system used.
- The smaract 19" Compact Rack is available in EMC and IP versions. Special attention was paid during the development phase to ensuring that this server and network rack remains constantly upgradeable to IP or EMC standard.
- A cost-effective solution can also be supplied in a combined IP-EMC version.

Advantages

- Access from all sides is a central element of the rack's design. Massive time savings achieved with system integration and component maintenance.
- smaract® Compact Rack can be modularly set up and stacked, and is therefore predestined for system integration. The new 900 mm depth in the stacked version makes the smaract especially popular with Internet solution providers.
- The central locking guarantees controlled access. Additionally, the side covers can only be removed when the front doors have been opened. Special lock systems, e.g. with chip card reader or keypad can also be selected on request.
- The compact 19" rack is available in 9 U, 15 U and 21 U versions, and in sizes 12 U (home office) and 18 U. The 900 mm installation depth is available for server applications.



Innovative frame concept:
Low weight – high stability

smaract® – At a Glance

Knürr supplies everything from one single source – from complete mechanical accessories, power supplies,

fan technology and IPCs, right through to complete rack monitoring systems. smaract® – The Solution Platform.

- System-oriented consultation
- Planning and prototyping
- Thermal management
- Cable management
- System integration
- Function tests
- Test procedures
- High production capacity
- Short delivery times
- Delivery also made to your customers
- Hotline
- Certification in accordance with DIN EN ISO 9001



Power distribution and ventilation



Innovative hinge technology for rapid door removal



Lock systems for various requirements



Can be upgraded to EMC and IP standard



Accessible from all sides

Design with Class

Function simply isn't everything! The Knürr smaract® Compact Rack sets new standards in design matters. The basic purpose of the design con-

cept is to translate the extended technical value creation into an appropriate but unobtrusive overall presence. This new smaract®

Compact Rack, developed in cooperation with designafairs, displays its exceptional technical features with a certain nonchalance and simplicity.

Technical data

smaract® – 19" Compact Rack, in accordance with IEC 297

- Material
 - Extruded aluminium
 - Corner piece, die-cast aluminium
 - Sheet steel covers
 - Doors: sheet steel or with single safety glass panel, opening angle, over 180°
- 19" components in accordance with IEC 297-3
 - Height: 9 U to 24 U
1 U = 44.45 mm
 - Width: 482.6 mm (19")
- Versions
 - IP 20
 - IP 54
 - EMC
- Space solution
 - 82% of the basic surface can be used as space for installation and cable routing
- Configuration
 - Stationary, on levelling feet
 - Mobile on castors with snib
- Finish
 - Basic rack, polished
 - Covers, powder-coated texture, RAL 7035 light-grey
- Static load rating
 - 2,000 N with stationary version
- How supplied
 - Fully assembled
- Tests according to version
 - Safety in accordance with EN 50298 and EN 60950
 - Protective conductor/earth in accordance with DIN VDE 0701-1
 - Vibration test in acc. with MIL-STD 810 E
 - Vibration and shock test in acc. with DIN EN 300019-2-2
 - IP test in accordance with DIN EN 60529
 - EMC shielding attenuation in acc. with IEEE-STD-299 and VG 95 373 part 15 (30 MHz - 1 GHz)
 - Plastic components in accordance with UL 94-V0

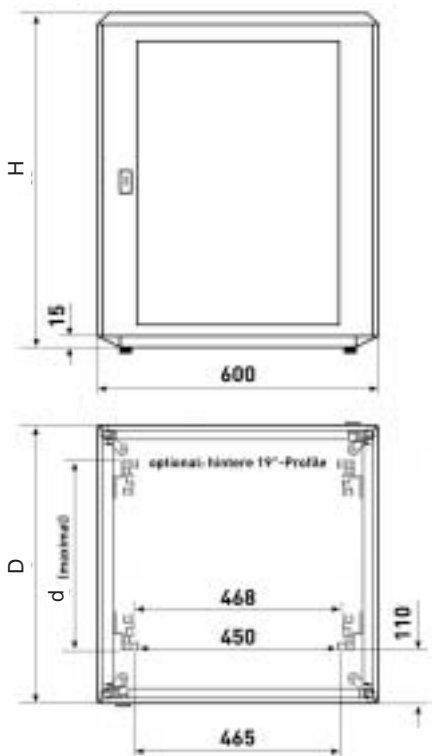
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SMA20024



SMA20026

smaract 19" Compact Rack With glass door

- For components in acc. with IEC 297-3
- Access from all sides, removable covers
- Flexible assembly of the components using T-slot (also optional with mounting holes)
- Cable entry via rear panel (also optionally via top cover/bottom cover)
- Heat loss discharge via own convection or with fan unit on the rear panel (accessory)
- Door opening angle, 180°

Jumpering space
Front, 110 mm

Load rating
2000 N static

Protection rating
IP 20 (upgradeable to IP 54)

- Material / Finish**
- Basic rack, extruded aluminium, polished
 - Corner piece, die-cast aluminium, polished
 - Covers, sheet steel, powder-coated texture
 - Glass infill front door, single safety glass panel

Colour
RAL 7035 light-grey

- Supply schedule**
- 1 Basic rack
 - 2 Side panels, closed, both sides, hinged
 - 1 Cover, closed
 - 1 Glass front door
 - 1 Rear door with cable entry, lockable, prepared for ventilation unit
 - 2 19" Aluminium vertical extrusions, at the front, with T-slot incl. increment slide or 19" sheet steel vertical extrusion, front, with mounting holes (see table)
 - 1 Earthing set
 - 4 Levelling feet

How supplied
Assembled

Note
If required, please also order 19" extrusions (see pages 2.8-2.9) for rear 19" level!

W	H	D	HU/U	h	d (max.)	kg	Model	Order no.	UP
600	478	600	9	450	16	with 19" T-slot extrusion	02.110.007.1	1 unit	
600	612	600	12	450	20	with 19" T-slot extrusion	02.110.012.1	1 unit	
600	745	600	15	450	24	with 19" T-slot extrusion	02.110.017.1	1 unit	
600	879	600	18	450	28	with 19" T-slot extrusion	02.110.022.1	1 unit	
600	1012	600	21	450	32	with 19" T-slot extrusion	02.110.027.1	1 unit	
600	1143	600	24	450	36	with 19" T-slot extrusion	02.110.032.1	1 unit	
600	478	800	9	650	19	with 19" T-slot extrusion	02.110.009.1	1 unit	
600	612	800	12	650	23	with 19" T-slot extrusion	02.110.014.1	1 unit	
600	745	800	15	650	27	with 19" T-slot extrusion	02.110.019.1	1 unit	
600	879	800	18	650	31	with 19" T-slot extrusion	02.110.024.1	1 unit	
600	1012	800	21	650	35	with 19" T-slot extrusion	02.110.029.1	1 unit	
600	1145	800	24	650	39	with 19" T-slot extrusion	02.110.034.1	1 unit	
600	478	600	9	450	16	with 19" mount. holes extru.	02.110.057.1	1 unit	
600	612	600	12	450	20	with 19" mount. holes extru.	02.110.062.1	1 unit	
600	745	600	15	450	24	with 19" mount. holes extru.	02.110.067.1	1 unit	
600	879	600	18	450	28	with 19" mount. holes extru.	02.110.072.1	1 unit	
600	1012	600	21	450	32	with 19" mount. holes extru.	02.110.077.1	1 unit	
600	1145	600	24	450	36	with 19" mount. holes extru.	02.110.082.1	1 unit	
600	478	800	9	650	19	with 19" mount. holes extru.	02.110.059.1	1 unit	
600	612	800	12	650	23	with 19" mount. holes extru.	02.110.064.1	1 unit	
600	745	800	15	650	27	with 19" mount. holes extru.	02.110.069.1	1 unit	
600	879	800	18	650	31	with 19" mount. holes extru.	02.110.074.1	1 unit	
600	1012	800	21	650	35	with 19" mount. holes extru.	02.110.079.1	1 unit	
600	1145	800	24	650	39	with 19" mount. holes extru.	02.110.084.1	1 unit	

Dimensions in mm: W = Width
 H = Height
 D = Depth
 h = Installation height
 d = Useable depth
 L = Length

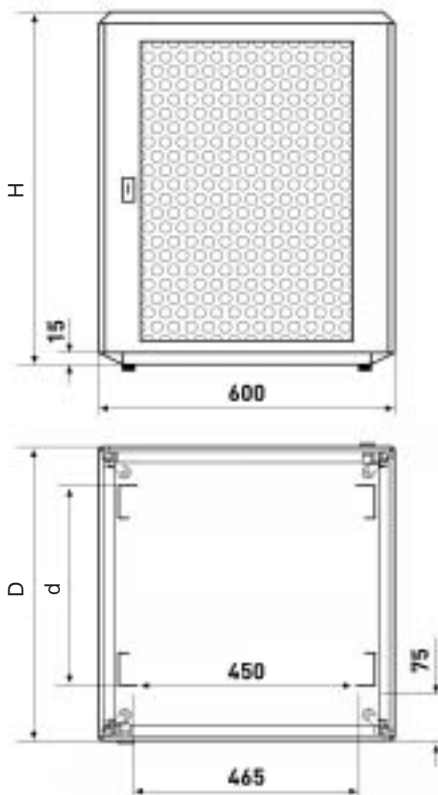
HU = Standard height unit
 1 HU = 44.45 mm
 UP = Unit of packaging
 kg = Weight

= Express item

Conversion: 1 mm = 0.03937 inch 1 kg = 2.2046 pound



SMA20067



SMA20060

smaract 19" Server Compact Rack With perforated door

- For components in acc. with IEC 297-3
- Access from all sides, removable covers
- With special 19" server extrusions for mounting trade standard servers
- With perforated doors on the front and rear for optimal airflow
- Door opening angle, 180°

■ Jumping space

Front, 75 mm

■ Airflow circulation

900 cm² with 9 HU
1500 cm² with 15 HU
2100 cm² with 21 HU
2400 cm² with 24 HU

■ Material / Finish

- Basic rack, extruded aluminium, polished
- Corner piece, die-cast aluminium, polished
- Covers, sheet steel, powder-coated texture

■ Colour

Final digit of order number .1:

RAL 7035 light-grey

Final digit of order number .8:

RAL 7021 dark-grey

■ Supply schedule

- 1 Basic rack
- 2 Side panels, closed, both sides, hinged
- 1 Cover, closed
- 1 Front door with perforation
- 1 Rear door with perforation
- 4 19" server sheet steel mounting hole extrusions
- 1 Earthing set
- 4 Levelling feet

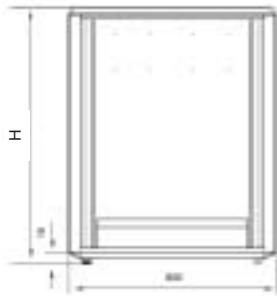
■ Note

Please also order mounting adapter for 19" server extrusions. Set with 4 adapters, 01.127.119.9 (see page 2.9).

W	H	D	HU/U h	d	kg	Model	Order no.	UP
600	478	900	9	740	21	with 19" server extru., RAL 7035	02.110.010.1	1 unit
600	478	900	9	740	21	with 19" server extru., RAL 7021	02.110.010.8	1 unit
600	745	900	15	740	29	with 19" server extru., RAL 7035	02.110.020.1	1 unit
600	745	900	15	740	29	with 19" server extru., RAL 7021	02.110.020.8	1 unit
600	1012	900	21	740	37	with 19" server extru., RAL 7035	02.110.030.1	1 unit
600	1012	900	21	740	37	with 19" server extru., RAL 7021	02.110.030.8	1 unit
600	1145	900	24	740	41	with 19" server extru., RAL 7035	02.110.035.1	1 unit
600	1145	900	24	740	41	with 19" server extru., RAL 7021	02.110.035.8	1 unit



SMA20025



SMA20027



SMA20042

smaract 19" Compact Rack Enclosure without door

- For built-in units in accordance with IEC 297-3
- Removable covers

Load rating

- 2000 N static

Material

- Basic rack: extruded aluminium
- Covers: sheet steel

Finish

- Basic rack: polished
- Covers: powder-coated textured

Colour

- RAL 7035 light grey

Supply schedule

- 1 Basic rack
- 2 Side panels, closed, both sides, hinged
- 1 Cover, closed
- 1 Panel frame, at the front
- 1 Rear door with cable entry, lockable, prepared for ventilation unit
- 2 19" Aluminium vertical extrusions, at the front, with T-slot
- 1 Earthing set
- 4 Levelling feet


How supplied

- Assembled

W	H	D	HU/U	h	d	kg	Model	Order no.	UP
	478	600	9			16		02.110.107.1	1 unit
	745	600	15			24		02.110.117.1	1 unit
	1012	600	21			28		02.110.127.1	1 unit
	478	800	9			19		02.110.109.1	1 unit
	745	800	15			25		02.110.119.1	1 unit
	1012	800	21			31		02.110.129.1	1 unit

Dimensions in mm: W = Width
 H = Height
 D = Depth
 h = Installation height
 d = Useable depth
 L = Length

HU = Standard height unit
 1 HU = 44.45 mm
 UP = Unit of packaging
 kg = Weight

 = Express item

Conversion: 1 mm = 0.03937 inch 1 kg = 2.2046 pound



SMA20033

smaract Ventilation Unit

- Easy add-on on the rear panel
- With two axial fans
- With thermostat

Single fan technical data

- Type 1:
 - Max. volume flow (free blowing): 160 m³/h
 - Noise (free blowing): 46 dB(A)
- Type 2 (quiet):
 - Max. volume flow (free blowing): 100 m³/h
 - Noise (free blowing): 32 dB(A)

Material / Finish

Sheet steel, zinc-passivated

Supply schedule

1 Ventilation unit ready for connection wired, with thermostat
Mounting material

How supplied

Preassembled

W	H	D	HU/U	h	d	kg	Model	Order no.	UP
							Type 1	02.111.180.9	1 unit
							Type 2 (quiet)	02.111.181.9	1 unit



SMA20103

smaract-19" Aluminium Extrusion With T-slot

- For front and rear installation

Material / Finish

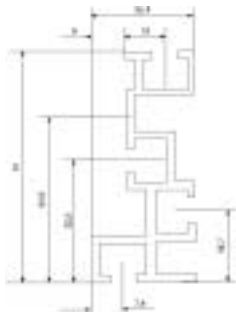
19" Extrusions: extruded aluminium, polished
Mounting bracket: sheet steel, zinc-passivated

Supply schedule

2 19" extrusions with T-slot incl. increment slide
4 Mounting brackets
Mounting material

How supplied

Flat packed kit



W	H	D	HU/U	h	d	kg	Model	Order no.	UP
							9	02.111.146.9	1 unit
							12	02.111.147.9	1 unit
							15	02.111.148.9	1 unit
							18	02.111.149.9	1 unit
							21	02.111.150.9	1 unit
							24	02.111.151.9	1 unit

SMA20105



SMA20104

smaract 19" Sheet Steel Extrusion With mounting holes

- For front and rear installation

Material / Finish

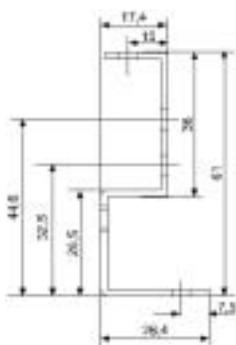
19" Extrusions: sheet steel, zinc-passivated
Mounting bracket: sheet steel, zinc-passivated, 1.5 mm

Supply schedule

2 19" extrusions with mounting holes
4 Mounting brackets
Mounting material

How supplied

Flat packed kit

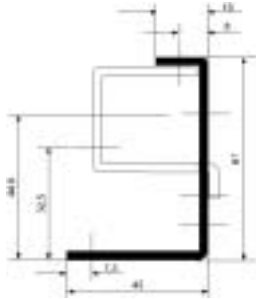


SMA20106

W	H	D	HU/U	h	d	kg	Model	Order no.	UP
							9	02.111.156.9	1 unit
							12	02.111.157.9	1 unit
							15	02.111.158.9	1 unit
							18	02.111.159.9	1 unit
							21	02.111.160.9	1 unit
							24	02.111.161.9	1 unit



MIR20046



MIR20041

smaract 19" Sheet Steel Server Extrusion

- For front and rear installation

Material / Finish
Sheet steel, zinc-passivated, 2.5 mm

Supply schedule
2 19" extrusions with mounting holes
Mounting material

How supplied
Flat packed kit

Note
Please also order mounting adapter
01.127.119.9 (set with 4 adapters)

W	H	D	HU/U	h	d	kg	Model	Order no.	UP
			9					02.111.136.9	1 unit
			12					02.111.137.9	1 unit
			15					02.111.138.9	1 unit
			18					02.111.139.9	1 unit
			21					02.111.140.9	1 unit
			24					02.111.141.9	1 unit




MIR20044

Mounting Adapter for 19" Server Extrusion

- For mounting Knürr standard components
(storage shelves, drawers, chassis rails,
keyboard runners, etc.) in 19" installation
space

Material
Sheet steel, zinc-passivated


Supply schedule
4 Adapters

W	H	D	HU/U	h	d	kg	Model	Order no.	UP
			1					01.127.119.9	 1 unit



MIR20082

Dimensions in mm: W = Width
H = Height
D = Depth
h = Installation height
d = Useable depth
L = Length

HU = Standard height unit
1 HU = 44.45 mm
UP = Unit of packaging
kg = Weight
 = Express item

Conversion: 1 mm = 0.03937 inch 1 kg = 2.2046 pound



SMA20172

Depth strut

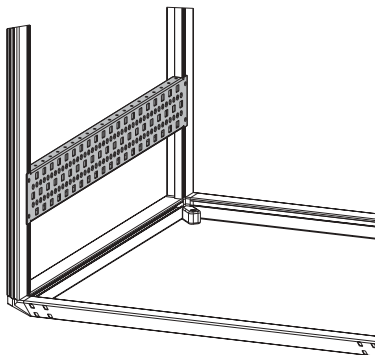
- For additional rack strength
- For routing cables with cable ties and as universal mounting option
- With holes for mounting caged nuts
- Variable positioning with T-slot
- Installation on the frame extrusions

Material / Finish
Sheet steel, 1.5 mm, zinc-passivated

Supply schedule
1 depth strut
Mounting material

How supplied
Flat-packed kit

W	H	D	HU/U h	d	kg	Model	Order no.	UP
		600					02.111.002.0	1 unit
		800					02.111.004.0	1 unit
		900					02.111.005.0	1 unit



SMA20173



SMA20031

smaract Rear Door Closed

Supply schedule
1 Rear panel, closed
Mounting material

Material / Finish
Sheet steel, powder-coated texture

How supplied
Flat packed kit

Colour
RAL 7035 light-grey

W	H	D	HU/U h	d	kg	Model	Order no.	UP
		9					02.111.076.1	1 unit
		12					02.111.077.1	1 unit
		15					02.111.078.1	1 unit
		18					02.111.079.1	1 unit
		21					02.111.080.1	1 unit
		24					02.111.081.1	1 unit



SMA20028

smaract Top Cover/Bottom Cover Closed

Material / Finish
Sheet steel, powder-coated texture

Colour
Final digit of order number .1:
RAL 7035 light-grey
Final digit of order number .8:
RAL 7021 dark-grey

Supply schedule
1 Bottom cover, closed
Mounting material

How supplied
Flat packed kit

Note
Use of the bottom cover in combination with the stationary plinth is not possible

W	H	D	HU/U	h	d	kg	Model	Order no.	UP
600		600						02.111.052.1	1 unit
600		800						02.111.054.1	1 unit
600		900						02.111.055.1	1 unit
600		900						02.111.055.8	1 unit



SMA20168

smaract Top Cover/Bottom Cover With cable entry

- With integrated cable clamping
- With brush strip for cable entry

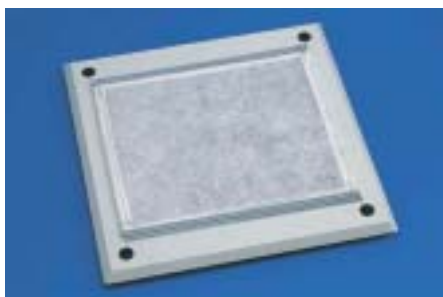
Material / Finish
Sheet steel, powder-coated texture

Colour
Final digit of order number .1:
RAL 7035 light-grey
Final digit of order number .8:
RAL 7021 dark-grey

Supply schedule
1 Bottom cover with cable routing
1 Brush strip
Mounting material

How supplied
Flat packed kit

W	H	D	HU/U	h	d	kg	Model	Order no.	UP
600		600						02.111.042.1	1 unit
600		800						02.111.044.1	1 unit
600		900						02.111.045.1	1 unit
600		900						02.111.045.8	1 unit



SMA20029

smaract Bottom Cover, Perforated With filter mat

- For cooling using air convection

Material / Finish
Bottom cover: sheet steel, powder-coated texture
Filter mat: filedon

Colour
RAL 7035 light-grey

Supply schedule
1 Perforated bottom cover with filter mat
Mounting material

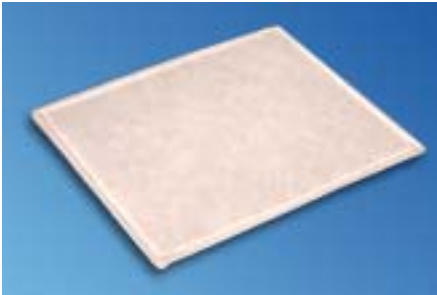
How supplied
Flat packed kit

W	H	D	HU/U	h	d	kg	Model	Order no.	UP
600		600						02.111.062.1	1 unit
600		800						02.111.064.1	1 unit
600		900						02.111.065.1	1 unit

Dimensions in mm: W = Width
H = Height
D = Depth
h = Installation height
d = Useable depth
L = Length

HU = Standard height unit
1 HU = 44.45 mm
UP = Unit of packaging
kg = Weight
 = Express item

Conversion: 1 mm = 0.03937 inch 1 kg = 2.2046 pound



SMA20058

smaract Replacement Filter

For smaract perforated bottom cover

- For use in conjunction with perforated bottom cover

Material
Fildedon

Supply schedule
5 Replacement filters

How supplied
Flat packed kit

W	H	D	HU/U	h	d	kg	Model	Order no.	UP
							for T600	02.111.068.9	5 units
							for T800	02.111.069.9	5 units
							for T900	02.111.069.9	5 units



SMA20091

smaract Plinth




- Stationary
- Cable entry possible from all sides
- Panels front and rear with vent slots and installation option for filter

Material / Finish
Sheet steel, powder-coated texture

Colour
Final digit of order number .1:
RAL 7035 light-grey
Final digit of order number .8:
RAL 7021 dark-grey

Supply schedule
4 Plinth corners
2 Closed panels
2 Panels, with vent slots
Mounting material

How supplied
Flat packed kit

W	H	D	HU/U	h	d	kg	Model	Order no.	UP
600	100	600						02.111.201.1	 1 set
600	100	800						02.111.203.1	 1 set
600	100	900						02.111.204.1	 1 set
600	100	900						02.111.204.8	1 set



SMA20095

smaract Plinth Trims with Cable Entry

For use in conjunction with the plinth

- For use in conjunction with the plinth

Material / Finish
Sheet steel, powder-coated texture

Supply schedule
1 Trim with cable entry
1 Brush strip
Mounting material

Colour
RAL 7035 light-grey

How supplied
Flat packed kit

W	H	D	HU/U	h	d	kg	Model	Order no.	UP
600								02.111.206.1	1 unit



SMA20098



SMA20034

smaract Twin Castor

- Height 50 mm


Colour
RAL 9011, graphite black

Load rating
400 N per castor
1200 N max. static total load per rack

Supply schedule
2 Twin castors
2 Fixed castors

Standards
Castors in acc. with DIN 12530
Load rating in acc. with DIN 12527

How supplied
Flat packed kit

W	H	D	HU/U	h	d	kg	Model	Order no.	UP
								02.111.175.9	 4 units



SMA20035


smaract Stacking Set

- Fixed connection for stacking compact racks

Material / Finish
Steel, cold rolled, zinc-passivated

Supply schedule
4 Stacking elements
Mounting material

How supplied
Flat packed kit

W	H	D	HU/U	h	d	kg	Model	Order no.	UP
								02.111.171.9	 4 units



MEC00074

smaract Eyebolt Set

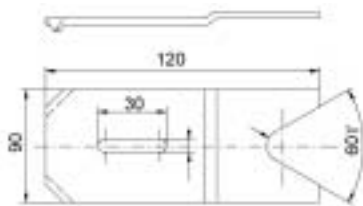
- For hanging on crane hooks
- Load rating, 1900 N static per ring screw

Material / Finish
Tool steel, forged

Supply schedule
4 Eyebolts

How supplied
Flat packed kit

W	H	D	HU/U	h	d	kg	Model	Order no.	UP
								01.243.440.9	4 units



MIR00319

Base Fixing Assembly Kit

Material
Sheet steel, 3.0 mm


Finish
Zinc-passivated

Supply schedule
4 Clamping plates

W	H	D	HU/U	h	d	kg	Model	Order no.	UP
								01.130.934.7	1 unit

Dimensions in mm: W = Width
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D = Depth
h = Installation height
d = Useable depth
L = Length

HU = Standard height unit
1 HU = 44.45 mm
UP = Unit of packaging
kg = Weight

 = Express item

Conversion: 1 mm = 0.03937 inch 1 kg = 2.2046 pound




SMA20094



SMA20085

smaract Wall Mounting Bracket

- Material / Finish**
Sheet steel, powder-coated texture
- Colour**
RAL 7035 light-grey
- Supply schedule**
2 Wall mounting brackets
Drill hole template
Mounting material
- Load rating**
500 N
- How supplied**
Flat packed kit

W	H	D	HU/U	h	d	kg	Model	Order no.	UP
600								02.111.220.9	 1 set



ELM00006




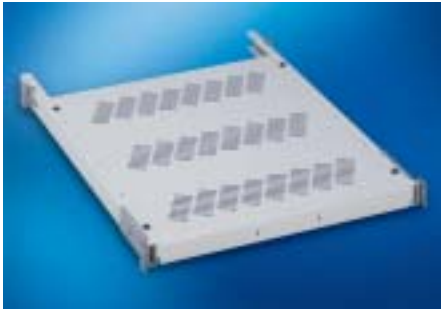
MEC20116

Jumpering Bracket, Rectangular

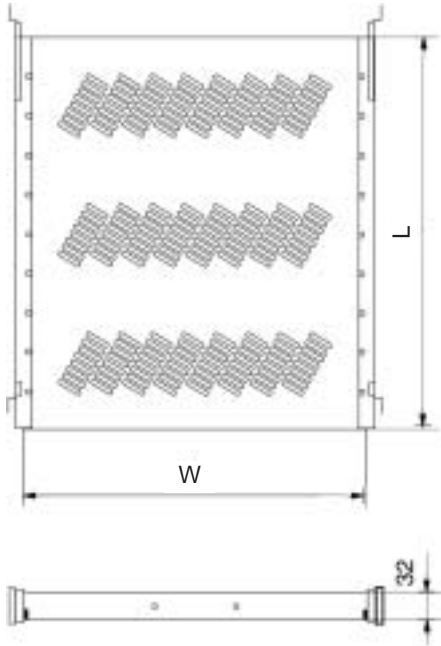
- For tidy and orderly cable management
- Open version, no tedious cable looping
- Mounting on the external side of the 19" extrusion
- Installation position freely selectable

- Material / Finish**
Round steel, d = 5 mm, zinc-passivated
- Supply schedule**
1 Jumpering bracket, rectangular
- How supplied**
In units
- Note**
Please also order the appropriate mounting material.

W	H	D	HU/U	Model	Order no.	UP
600				smaract	01.117.179.7	 1 unit



MEC00451



MEC20018

19" Shelf Fixed

- With perforation to optimise air supply







Material / Finish
Sheet steel 1.0 mm, zinc-passivated, powder-coated texture

Colour
Final digit of order number .1:
RAL 7035, light-grey
Final digit of order number .8:
RAL 7021, dark-grey

Load rating
500 N static per item


Supply schedule
2 Mounting rails, incl. mounting bracket
1 Shelf board
1 Extension board (from L = 600)
Mounting material

How supplied
Flat packed kit

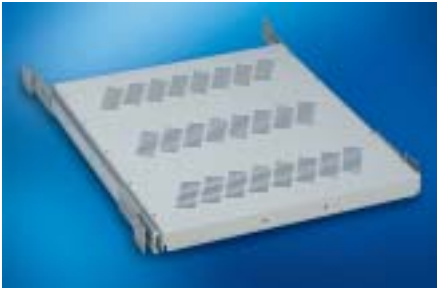
W	H	D	HU	d	W x L	For rack type	Order no.	UP
19"	600	365	430 x 300	365	430 x 300	smaract LAN	01.102.001.1	1 unit 
19"	600	440	430 x 300	440	430 x 300	smaract 19"	01.102.002.1	1 unit 
19"	800	565	430 x 500	565	430 x 500	smaract LAN	01.102.003.1	1 unit 
19"	800	565	430 x 500	565	430 x 500	smaract LAN	01.102.003.8	1 unit
19"	800	640	430 x 600	640	430 x 600	smaract 19"	01.102.004.1	1 unit 
19"	800	640	430 x 600	640	430 x 600	smaract 19"	01.102.004.8	1 unit
19"	900	665	430 x 600	665	430 x 600	smaract LAN	01.102.004.1	1 unit 
19"	900	665	430 x 600	665	430 x 600	smaract LAN	01.102.004.8	1 unit
19"	900	740	430 X 600	740	430 X 600	smaract 19" Server	01.102.005.1	1 unit 
19"	900	740	430 X 600	740	430 X 600	smaract 19" Server	01.102.005.8	1 unit
600	600	535	515 x 500	535	515 x 500	smaract CW 535	01.102.252.1	1 unit
600	800	735	515 x 700	735	515 x 700	smaract CW 535	01.102.254.1	1 unit
600	900	835	515 x 800	835	515 x 800	smaract CW 535	01.102.255.1	1 unit

Dimensions in mm: W = Width
H = Height
D = Depth
h = Installation height
d = Useable depth
L = Length

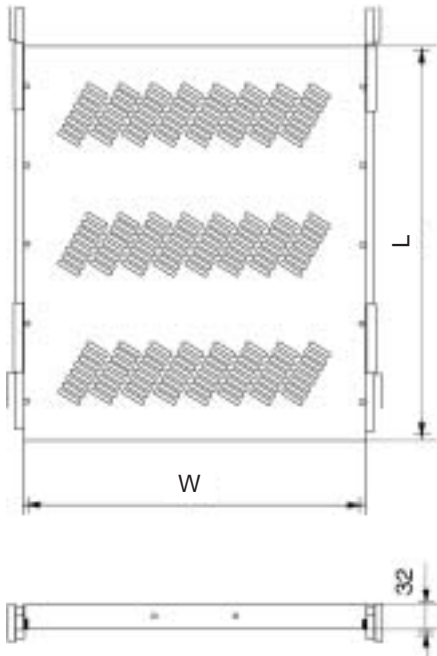
HU = Standard height unit
1 HU = 44.45 mm
UP = Unit of packaging
kg = Weight

 = Express item

Conversion: 1 mm = 0.03937 inch 1 kg = 2.2046 pound



MEC00452



MEC20019

19" Shelf Part pull-out

- With perforation to optimise air supply

Material / Finish

Sheet steel 1.0 mm, zinc-passivated, powder-coated texture

Colour

Final digit of order number .1:
RAL 7035, light-grey
Final digit of order number .8:
RAL 7021 dark-grey

Load rating

500 N static per item

Supply schedule

1 Pair of telescopic slides
1 Shelf board
1 Extension board (from L = 600)
Mounting material

How supplied

Flat packed kit

B	H	D	HU	d	W x L	For rack type	Order no.	UP
19"	600	365	430 x 300	smaract LAN	01.102.010.1		1 unit	
19"	600	440	430 x 300	smaract 19"	01.102.010.1		1 unit	
19"	800	565	430 x 500	smaract LAN	01.102.011.1		1 unit	
19"	800	565	430 x 500	smaract LAN	01.102.011.8		1 unit	
19"	800	640	430 x 500	smaract 19"	01.102.011.1		1 unit	
19"	800	640	430 x 500	smaract 19"	01.102.011.8		1 unit	
19"	900	665	430 x 500	smaract LAN	01.102.011.1		1 unit	
19"	900	665	430 x 500	smaract LAN	01.102.011.8		1 unit	
19"	900	740	430 x 600	smaract 19" Server	01.102.012.1		1 unit	
19"	900	740	430 x 600	smaract 19" Server	01.102.012.8		1 unit	



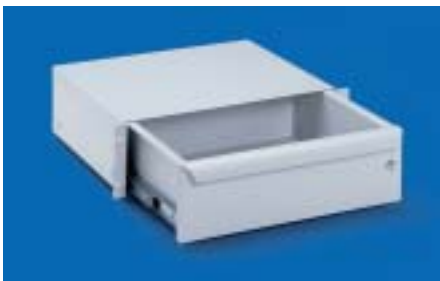
MEC20131



TEM00066



MEC20112



SCH00058



SCH00054

Chassis Rail Screw-on

- For installation in 19" rack and enclosure
- For heavy components

Material
Extruded aluminium, 2.0 mm

Finish
Polished

Supply schedule
1 Chassis rail

Load rating
500 N static per item

Note
When selecting the chassis rail, please note the chassis depth d of the rack or enclosure

When mounting on the T-slot, please also order M5 spring nut: 05.041.503.9 (set of 50 units).

W	H	D	HU	d	L	For rack type	Order no.	UP
		600	365	311		smaract LAN	01.110.657.0	1 unit
		600	440	386		smaract 19"	01.110.726.0	1 unit
		800	565	511		smaract LAN	01.110.658.0	1 unit
		800	640	586		smaract 19"	01.110.727.0	1 unit
		900	665	611		smaract LAN	01.110.659.0	1 unit
		900	740	686		smaract 19" Server	01.110.728.0	1 unit

19" Drawer Installation on the front

- For installation on the front 19" extrusions
- For storing service documents
- Simple and quick mounting

Material / Finish
Drawer, sheet steel 1.0 mm, powder-coated texture
Telescopic slides, sendzimir zinc-coated

Colour
Final digit of order number .1:
RAL 7035, light-grey
Final digit of order number .8:
RAL 7021, dark-grey

Load rating
150 N static

Supply schedule
1 19" Drawer with lock, including key
1 Pair of telescopic slides
Mounting material

How supplied
Preassembled

W	H	D	HU	For rack type	Order no.	UP
19"	43.6	600-1000	1	miracel/smaract/MaxLoad/doubleprorack/ConAct	01.113.926.1	1 unit
19"	88.1	600-1000	2	miracel/smaract/MaxLoad/doubleprorack/ConAct	01.113.927.1	1 unit
19"	88.1	600-1000	2	miracel/smaract/MaxLoad/doubleprorack/ConAct	01.113.927.8	1 unit
19"	132.5	600-1000	3	miracel/smaract/MaxLoad/doubleprorack/ConAct	01.113.928.1	1 unit



MEC20129

Front Panel Mounting Kit, T-Slot, M5, Wide


- For mounting 19" front panels and 19" components

Supply schedule

50 spring nuts, M5 wide
50 oval head screws, Z form, M5 x 10

How supplied

Flat packed kit

W	H	D	HU	d	L	Model	Order no.	UP
						Z-form screw	05.041.335.9	 1 set



MEC20098

Front Panel Mounting Kit, Mounting Holes, M5/Plate, 1.5 mm


- For mounting 19" front panels and 19" components

Supply schedule

50 caged nuts, M5 / plate 1.5 mm
50 oval head screws, Z form, M5 x 16

How supplied

Flat packed kit

W	H	D	HU	d	L	Model	Order no.	UP
						Z-form screw	05.041.336.9	 1 set



MEC20098

Front Panel Mounting Kit, Mounting Holes, M5/Plate, 2.5 mm


- For mounting 19" front panels and 19" components

Supply schedule

50 caged nuts, M5 / plate 2.5 mm
50 oval head screws, Z form, M5 x 16

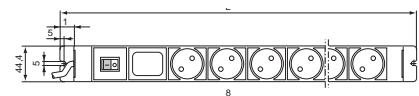
How supplied

Flat packed kit

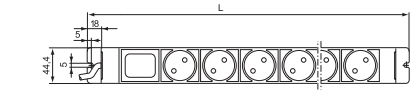
W	H	D	HU	d	L	Model	Order no.	UP
						Z-form screw	05.041.337.9	 1 set



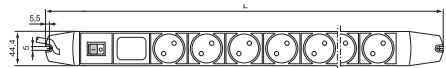
DOS00401 With switch



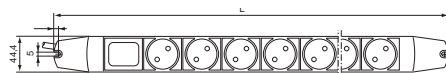
DOS00262 With switch



DOS20020 Without switch



DOS20021 With switch



DOS00263 Without switch

DI-STRIP Compact

- Optionally with lit switch, 2-pole switching
- 19" Installation option (with length 483 mm)
- 2 Versions: Standard side panel or Design side panel
- Socket rotation: 45°
- Cable: H05VV-F 3G 1.5 mm²
- Moulded right angle plug

Material / Finish

Enclosure: closed sheet steel extrusion, zinc-passivated, powder-coated texture
 Plastic parts: polyamide PA 6 (UL 94 V0), recyclable
 Internal conductor: full-length busbar, brass
 Cable: PVC

Dimensions

Socket spacing: 50 mm
 Height: 45.5 mm
 Casing width: 44.4 mm (= 1 HU)
 Cable: 2.5 m

Approvals

CE Label in accordance with the low voltage guideline 73/23/EWG, EMC guideline 89/336/EWG VDE Certificate

Colour combination

Final digit of order number .1: RAL 7035, light-grey
 Final digit of order number .6: Casing, RAL 2003, pastel orange
 Plastic parts: RAL 7035, light-grey

Load rating

250 VAC/16 A

Supply schedule

- 1 Socket strip
- 2 Mounting brackets
- 2 19" Mounting brackets (additional with 19" installation option)

L	S	n	F1	F2	19"	Safe	Model	Order no.	UP
483		7	●		●		Standard DIN 49440	03.300.007.x	1 unit
483		7	●		●	●	French/Belg. Standard	03.400.007.x	1 unit

Dimensions in mm:

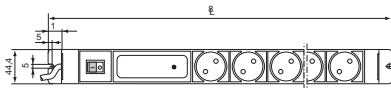
L = Length, S = Switch, n = Number of sockets,
 F1 = Standard side piece, F2 = Design side piece,
 19" = Suitable for 19" installation, Safe = Child-safe
 HU = Standard height unit, UP = Unit of packaging

Replace .x with the number of the required colour combination:
 .1 = RAL 7035, .6 = RAL 7035/RAL 2003



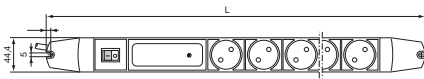
DOS20069

With overvoltage protection and mains filter



DOS00307

With overvoltage protection and mains filter



DOS00271

DI-STRIP Safety Standard with switch

- With overvoltage protection
- With integrated mains filter
- With lit switch, 2-pole switching
- A combination of varistors and gas discharge arresters guarantee a rapid response and high discharge capacity
- Simple but effective protection against indirect strikes and voltage spikes from the mains and high frequency disturbance signals
- Overvoltage protection:
 - 1. Up to max. surge current resistance, transient overvoltages are reduced to non-damaging values
 - 2. If the surge current resistance is exceeded, the connected equipment is separated from the mains to protect against further overvoltage spikes (the green function display goes off). The protection module must then be changed for further use. To increase the protection function, a coarse filter should be switched in advance in the building installation.
- Mains filter:
 - High-frequency disturbance signals are effectively eliminated by the low-pass mains filter
 - 19" Installation option (with length 483 mm)
 - Socket rotation: 45°
 - Cable: H05VV-F 3G 1.5 mm²
 - Moulded right angle plug

Material / Finish

Enclosure: closed sheet steel extrusion, zinc-passivated, powder-coated texture
 Plastic parts: polyamide PA 6 (UL 94 V0), recyclable
 Internal conductor: full-length busbar, brass
 Cable: PVC

Dimensions

Socket spacing: 50 mm
 Height: 45.5 mm
 Casing width: 44.4 mm (= 1 HU)
 Cable: 2.5 m

Approvals

CE Label in accordance with the low voltage guideline 73/23/EWG, EMC guideline 89/336/EWG
 VDE Certificate

Colour combination

Final digit of order number .1:
 RAL 7035, light-grey
 Final digit of order number .6:
 Casing, RAL 2003, pastel orange
 Plastic parts: RAL 7035, light-grey

Technical data

Mains voltage 230 VAC +/- 10 %
 Nominal current 16A
 Feature class: D (refined protection in accordance with DIN VDE 0675)
 Surge current resistance (8/20 µs wave): max. 10 kA
 Protection level (1.5/50 µs wave): < 1200 V (L/N against PE)
 Mains filter (high-stop): attenuation at 1MHz - > 45 dB

Supply schedule

1 Socket strip
 2 Mounting brackets
 2 19" Mounting brackets
 (additional with 19" installation option)

L	S	n	F1	F2	19"	Safe	Model	Order no.	UP
483	●	5	●		●		Standard DIN 49440	03.318.005.x	1 Stk
483	●	5	●		●	●	French/Belg. Standard	03.418.005.x	1 Stk



ELM00114

Equipotential Bonding Bar

- For central earthing of all protective conductors
- With sealing cover
- Connection options:
 - 1 x Round conductor 8-10 mm Ø
 - 1 x Flat conductor up to 30 mm wide or round conductor 8-10 mm Ø
 - 7 x one or several-wire conductors up to 16 mm² or fine wire conductor up to 10 mm²

Material

Base and cover, high-impact plastic
 Contact strip, brass, nickel-plated

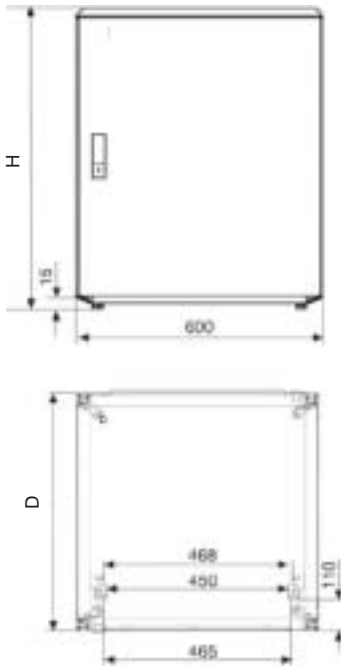
Supply schedule

1 Equipotential bonding bar

W	H	S	HU/U	h	d	b	Model	Order no.	UP
								01.117.524.3	1 unit



SMA20065



SMA20059

smaract 19" Enclosure, EMC, with sheet steel door

- For installation in accordance with IEC 297-3

- Removable covers

Load rating
- 2000 N static

Material
- Basic rack: extruded aluminium
- Covers: sheet steel
- EMC spring: stainless steel

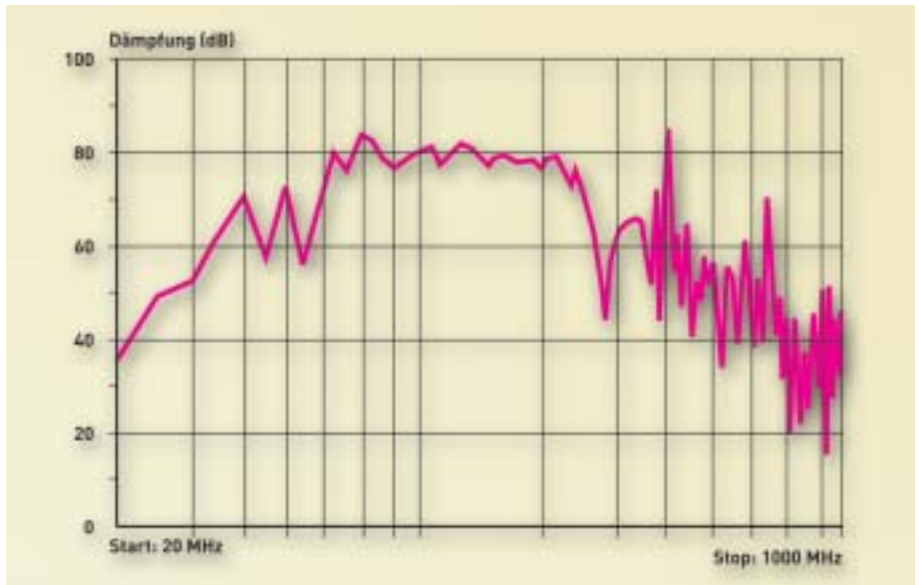
Finish
- Basic rack: polished
- Covers: powder-coated textured

Colour
- RAL 7035 light grey

Supply schedule
1 Basic rack
2 Side panels, EMC, closed, hinged on both sides
1 Top cover, EMC, closed
1 Bottom cover, EMC, closed
1 Front door, EMC, closed
1 Rear door, EMC, closed, screwed
2 19" Aluminium vertical extrusions, front, with T-Slot, incl. increment slide
1 Earthing set
4 Levelling feet

How supplied
- Assembled

W	H	D	HU/U	h	d	kg	Model	Order no.	UP
600	612	600	12			28		02.110.312.1	1 unit
600	879	600	18			36		02.110.322.1	1 unit
600	1145	600	24			44		02.110.332.1	1 unit
600	612	800	12			32		02.110.314.1	1 unit
600	879	800	18			40		02.110.324.1	1 unit
600	1145	800	24			48		02.110.334.1	1 unit



TEC20098

EMC measurements were carried out by Plem Electronic GmbH, Frontenhausen

Tests were carried out in accordance with the following standard: VG 95373 part 15

Tested rack
W 600, D 600, H 1150, closed version

Dimensions in mm: W = Width
H = Height
D = Depth
h = Installation height
d = Useable depth
L = Length
HU = Standard height unit
1 HU = 44.45 mm
UP = Unit of packaging
kg = Weight
📦 = Express item

Conversion: 1 mm = 0.03937 inch 1 kg = 2.2046 pound



SMA20148

smaract Connection panel EMC, closed

- EMC shielded
- Screwed

- Material**
 - Cover: sheet steel
 - EMC spring: stainless steel

- Finish**
 - Powder-coated textured

- Colour**
 - RAL 7035 light grey

- Supply schedule**
 - 1 Connection panel
 - 2 Brackets
 - Mounting hardware

- How supplied**
 - Flat-packed kit

W	H	D	HU/U	h	d	kg	Model	Order no.	UP
600	131,3		3					02.111.351.1	1 set



SMA20137



SMA20145

smaract Connection panel EMC, with cable entry

- EMC shielded
- Screwed

- Material**
 - Cover: sheet steel
 - EMC spring: stainless steel
 - EMC sealing extrusion: rubber with stainless steel mash

- Finish**
 - Powder-coated textured

- Colour**
 - RAL 7035 light grey

- Supply schedule**
 - 1 Connection panel with cable entry
 - 2 Brackets
 - Mounting hardware


- How supplied**
 - Flat-packed kit

W	H	D	HU/U	h	d	kg	Model	Order no.	UP
600	131,3		3					02.111.361.1	1 set



SMA20137

Dimensions in mm: W = Width
 H = Height
 D = Depth
 h = Installation height
 d = Useable depth
 L = Length

HU = Standard height unit
 1 HU = 44.45 mm
 UP = Unit of packaging
 kg = Weight
 = Express item

Conversion: 1 mm = 0.03937 inch 1 kg = 2.2046 pound



SMA20150

smaract Connection panel EMC, for fan unit

- EMC shielded
- Screwed

- Material**
 - Cover: sheet steel
 - EMC spring: stainless steel

- Finish**
 - Powder-coated textured

- Colour**
 - RAL 7035 light grey

- Supply schedule**
 - 1 Connection panel for fan unit
 - 2 Brackets
 - Mounting hardware

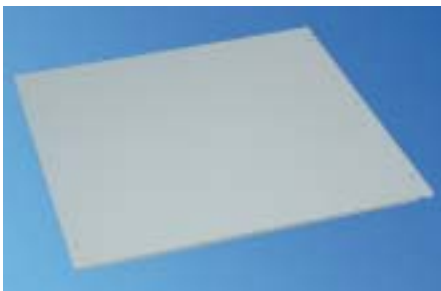
- How supplied**
 - Flat-packed kit

- Note**
 - Fitting ventilation unit: 02.111.180.9

W	H	D	HU/U	h	d	kg	Model	Order no.	UP
600	264,6		6					02.111.372.1	1 set



SMA20135



SMA20152

smaract Rear panel EMC, closed

- EMC shielded
- Screwed

- Material**
 - Cover: sheet steel
 - EMC spring: stainless steel

- Finish**
 - Powder-coated textured

- Colour**
 - RAL 7035 light grey

- Supply schedule**
 - 1 Connection panel for fan unit
 - 2 Brackets
 - Mounting hardware

- How supplied**
 - Flat-packed kit


W	H	D	HU/U	h	d	kg	Model	Order no.	UP
600	556,3		12					02.111.354.1	1 set
600	689,6		15					02.111.355.1	1 set



SMA20137

Dimensions in mm: W = Width
 H = Height
 D = Depth
 h = Installation height
 d = Useable depth
 L = Length

HU = Standard height unit
 1 HU = 44.45 mm
 UP = Unit of packaging
 kg = Weight

 = Express item

Conversion: 1 mm = 0.03937 inch 1 kg = 2.2046 pound



smaract 19" Enclosure IP54, with glass door

- For installations in accordance with IEC 297-3
- Removable covers

Load rating
- 2000 N static

Degree of protection
- IP 54

Material
- Basic rack: extruded aluminium
- Covers: sheet steel
- Foam sealing: polyurethane

Finish
- Basic rack: polished
- Covers: powder-coated textured

Colour
- RAL 7035 light grey

Supply schedule
1 Basic rack
2 Side panels, IP 54, closed, hinged on both sides
1 Top cover, IP 54, closed
1 Bottom cover, IP 54, closed
1 Glass front door IP 54
1 Rear door, IP 54, closed, screwed
2 19" Aluminium vertical extrusions, front, with T-Slot, incl. increment slide
1 Earthing set
4 Levelling feet

How supplied
- Assembled

SMA20062



SMA20108

W	H	D	HU/U	h	d	kg	Model	Order no.	UP
600	612	600	12			28		02.110.212.1	1 unit
600	879	600	18			36		02.110.222.1	1 unit
600	1146	600	24			44		02.110.232.1	1 unit
600	612	800	12			32		02.110.214.1	1 unit
600	879	800	18			40		02.110.224.1	1 unit
600	1146	800	24			48		02.110.234.1	1 unit

Dimensions in mm: W = Width
H = Height
D = Depth
h = Installation height
d = Useable depth
L = Length

HU = Standard height unit
1 HU = 44.45 mm
UP = Unit of packaging
kg = Weight
📦 = Express item

Conversion: 1 mm = 0.03937 inch 1 kg = 2.2046 pound



Use also: the current Network Special Catalogue!

Where you will find more products:

- 19" Rack systems
- Free-standing and wall cabinets
- TFT Drawers
- KVM Switches
- UPS Solutions
- RMS System
- Thermal management

www.knuerr.com



SMA20148

smaract Connection panel IP 54, closed

- IP 54 protection rating
- Screwed

- Material**
 - Cover: sheet steel
 - Foam sealing: polyurethane

- Finish**
 - Powder-coated textured

- Colour**
 - RAL 7035 light grey

- Supply schedule**
 - 1 Connection panel
 - 2 Brackets
 - Mounting hardware

- How supplied**
 - Flat-packed kit

W	H	D	HU/U	h	d	kg	Model	Order no.	UP
600	131,3	3						02.111.301.1	1 set



SMA20138



Typ 1

SMA20139

smaract Connection panel IP 54, with cable entry

- Possible seal up: IP 54
- Screwed

- Material**
 - Cover: sheet steel
 - Foam sealing: polyurethane
 - Sealing extrusion: foam-rubber seal

- Finish**
 - Powder-coated textured

- Colour**
 - RAL 7035 light grey

- Supply schedule**
 - 1 Connection panel with cable entry
 - 2 Brackets
 - Mounting hardware

- How supplied**
 - Flat-packed kit

W	H	D	HU/U	h	d	kg	Model	Order no.	UP
600	131,3	3					Typ 1	02.111.311.1	1 set
600	131,3	3					Typ 2	02.111.312.1	1 set

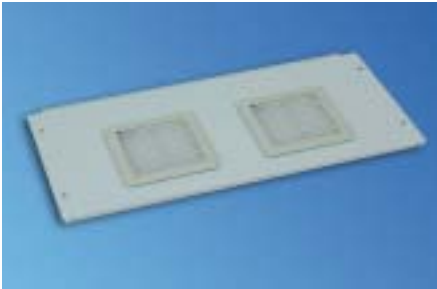


Typ 2

SMA20169



SMA20138



SMA20143

smaract Connection panel IP 54, for fan unit

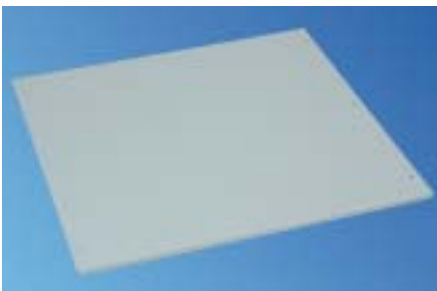
- IP 54 protection rating
- Screwed
- Material**
 - Covers: sheet steel
 - Foam sealing: polyurethane
 - Exit filter: ABS plastic, UL94 V-0
- Finish**
 - Powder-coated textured

- Colour**
 - RAL 7035 light grey
- Supply schedule**
 - 1 Connection panel for fan unit
 - 2 Brackets
 - Mounting hardware
- How supplied**
 - Flat-packed kit
- Note**
 - Fitting ventilation unit: 02.111.180.9

W	H	D	HU/U	h	d	kg	Model	Order no.	UP
600	264,6	6						02.111.322.1	1 set



SMA20136



SMA20141

smaract Rear panel IP 54, closed

- IP 54 protection rating
- Screwed
- Material**
 - Covers: sheet steel
 - Foam sealing: polyurethane
- Finish**
 - Powder-coated textured

- Colour**
 - RAL 7035 light grey
- Supply schedule**
 - 1 Connection panel for fan unit
 - 2 Brackets
 - Mounting hardware
- How supplied**
 - Flat-packed kit

W	H	D	HU/U	h	d	kg	Model	Order no.	UP
600	289,6	6						02.111.302.1	1 set
600	422,9	9						02.111.303.1	1 set
600	556,3	12						02.111.304.1	1 set
600	689,6	15						02.111.305.1	1 set
600	823	18						02.111.306.1	1 set
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