Rittal – The System.

Faster – better – everywhere.

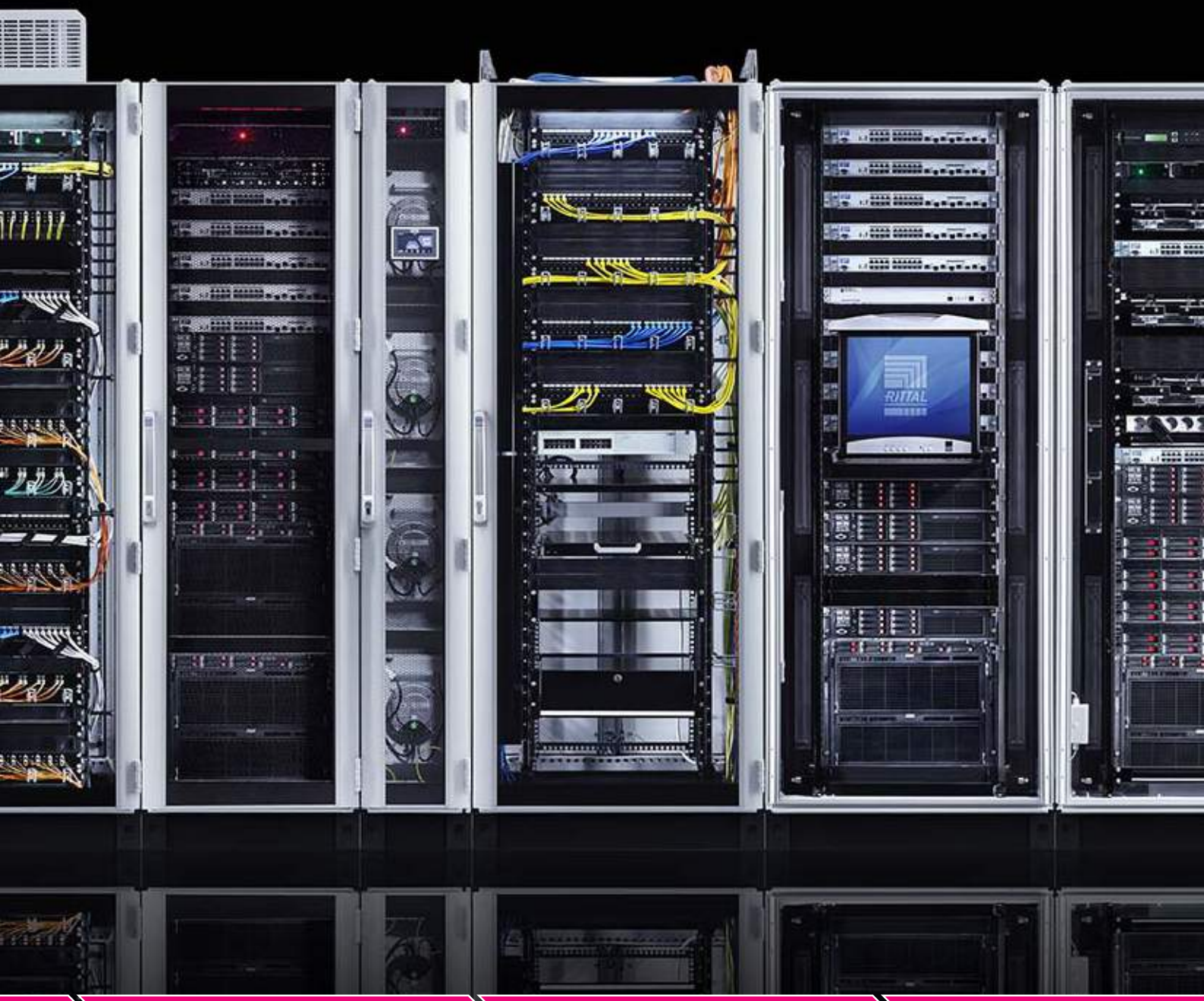
Network enclosures TE 8000

ENCLOSURES | POWER DISTRIBUTION | CLIMATE CONTROL | IT INFRASTRUCTURE | SOFTWARE & SERVICES

FRIEDHELM LOH GROUP

Rittal – The System.

Faster – better – everywhere.



ENCLOSURES | POWER DISTRIBUTION | CLIMATE CONTROL

FRIEDHELM LOH GROUP

The whole is more than the sum of its parts

The same is true of “Rittal – The System.” With this in mind, we have bundled our innovative enclosure, power distribution, climate control and IT infrastructure products together into a single system platform. Complemented by our extensive range of software tools and global service, we create unique added value for trade and industry: Production plant, test equipment, facility management and data centres. In accordance with our simple principle, “Faster – better – everywhere”, we are able to combine innovative products and efficient service to optimum effect.

Faster – with our “Rittal – The System.” range of modular solutions, which guarantees fast planning, assembly, conversion and commissioning with its system compatibility.

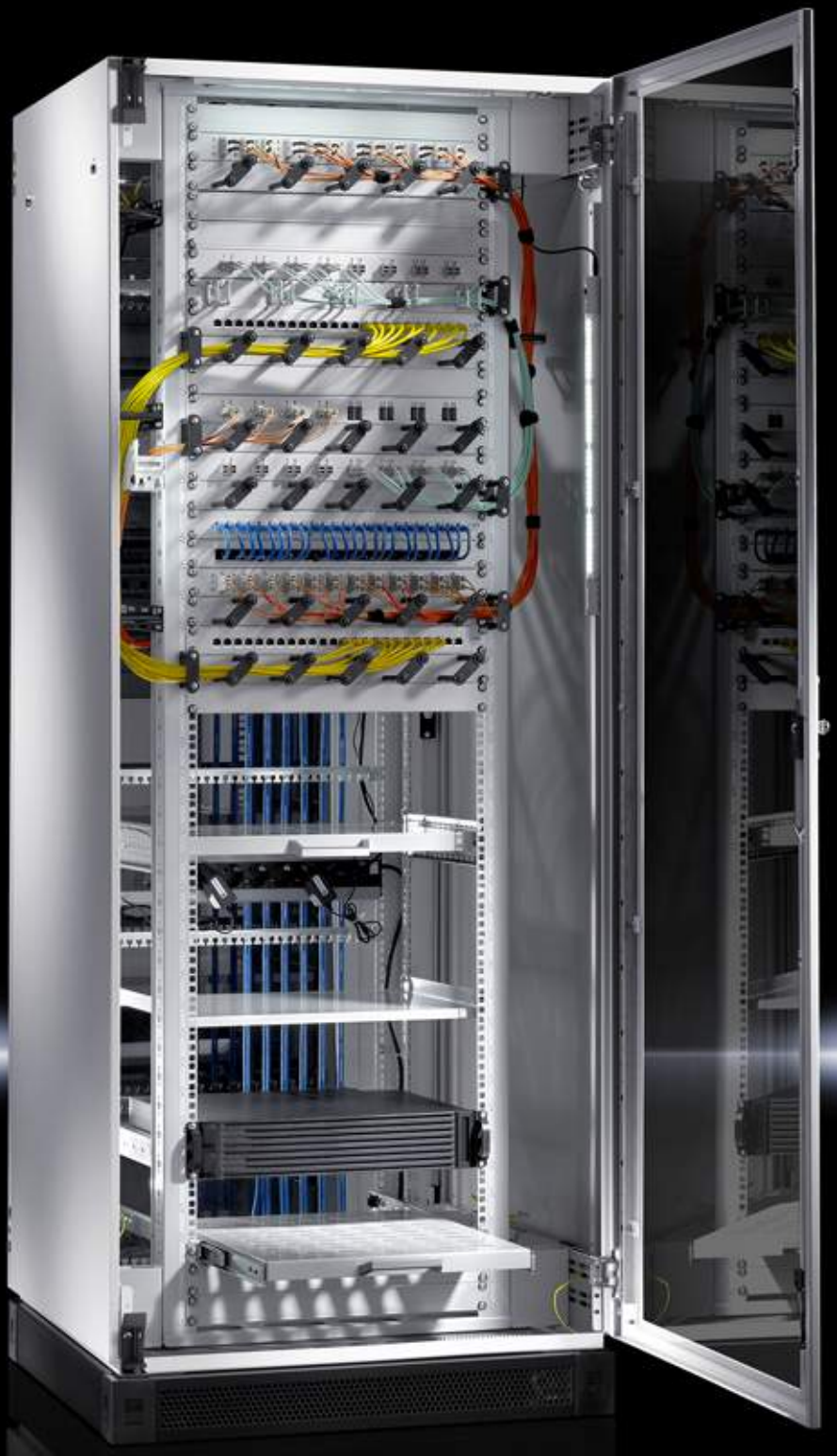
Better – by being quick to translate market trends into products. In this way, our innovative strength helps you to secure competitive advantages.

Everywhere – thanks to global networking:

- 13 production facilities with almost 250,000 m^2 production space worldwide
- 58 subsidiaries
- Around 90 warehouse facilities with more than 180,000 pallet locations and over 260,000 m^2 storage space worldwide

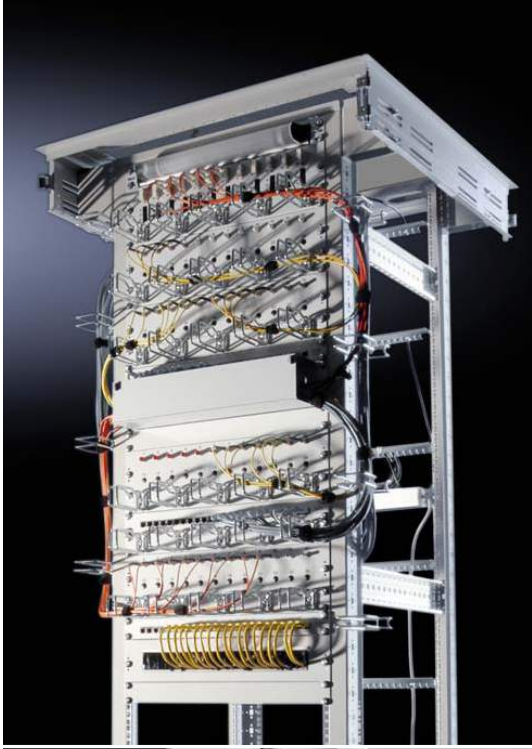
IT INFRASTRUCTURE SOFTWARE & SERVICES

Network enclosures TE 8000 – Efficient and cost-effective



Rack without disruptive enclosure frame

- Optimum accessibility from all sides
- Maximum utilisation of internal space
- Lightning-quick assembly



Simple assembly

- Quick removal and mounting of doors and side panels
- System roof for cable entry and active ventilation
- System accessories for quick and direct installation

Variable at all levels

- Universal interior installation with depth-variable attachment
- Direct installation on the 19" mounting frame
- Can be dismantled for transporting to confined locations

Network enclosures TE 8000

System accessories Page 11 **IT monitoring** Page 26 **IT cooling** Cat. 34, page 427 **IT power** Page 23

Benefits:
- No frame structure
- Optimum accessibility
- Readily dismantled and therefore easily installed

Material:
- Sheet steel
- Glazed door: Single-pane safety glass, 3 mm

Surface finish:
- Mounting frame: Dipcoat-primed
- Enclosure panels: Powder-coated

Colour:
- RAL 7035

Protection category IP to IEC 60 529:
- IP 20

Supply includes:
- Self-supporting 482.6 mm (19") mounting frames, front and rear, depth-variable
- Glazed door at the front, including 130° hinge, designer handle and security lock 3524 E
- Sheet steel door at the rear, including 130° hinge, security lock 3524 E
- Base frame with maximum cut-out (for optional population with module plates)
- Roof plate including concealed cut-out for cable entry and optional fan
- 4 levelling feet, M10 (supplied loose)
- 4 spacers, 20 mm (supplied loose) to raise the roof plate

Please observe the product-specific scope of supply.

Width 600 mm

Units U	Packs of	11	11	24	24	42	42	Page
Width mm		600	600	600	600	600	600	
Height mm		600	600	1200	1200	2000	2000	
Depth mm		600	800	600	800	600	800	
Distance between prefitted 482.6 mm (19") levels mm		495	495	495	495	495	495	
Max. load capacity (static) per enclosure kg		400	400	400	400	400	400	
Model No.	1 pc(s).	**7888.390**	**7888.410**	**7888.430**	**7888.440**	**7888.500**	**7888.510**	
Product-specific scope of supply								
Side panels, lockable, including security lock 3524 E	2 pc(s).	■	■	■	■	■	■	
Accessories								
Flex-Block corner pieces, 100 mm	4 pc(s).	8100.000	8100.000	8100.000	8100.000	8100.000	8100.000	Cat. 34, 511
Flex-Block trim panels, 100 mm, vented	2 pc(s).	8100.602	8100.602	8100.602	8100.602	8100.602	8100.602	Cat. 34, 511
Flex-Block trim panels, 100 mm, solid	2 pc(s).	8100.600	see page	8100.600	see page	8100.600	see page	Cat. 34, 511
Side panels		–	–	–	–	–	–	
Baying kit	4 pc(s).	7000.640	7000.640	7000.640	7000.640	7000.640	7000.640	11
Brush kit for cable entry in the roof	2 pc(s).	7888.610	7888.610	7888.610	7888.610	7888.610	7888.610	11
Fan mounting plates	1 pc(s).	5502.020	5502.020	5502.020	5502.020	5502.020	5502.020	13
Fan expansion kit	1 pc(s).	7980.000	7980.000	7980.000	7980.000	7980.000	7980.000	13
Complete earthing kit	1 pc(s).	7000.675	7000.675	7000.675	7000.675	7000.675	7000.675	13
Component shelf, static installation	1 pc(s).	7000.620	7000.620	7000.620	7000.620	7000.620	7000.620	17
Component shelf, complete set, pull-out	1 pc(s).	7000.625	7000.625	7000.625	7000.625	7000.625	7000.625	18
Slide rails	2 pc(s).	7963.410	7963.410	7963.410	7963.410	7963.410	7963.410	19

Width 800 mm

Units U	Packs of	24	42	42	42	Page
Width mm		800	800	800	800	
Height mm		1200	2000	2000	2000	
Depth mm		800	600	800	800	
Distance between prefitted 482.6 mm (19") levels mm		495	495	495	495	
Max. load capacity (static) per enclosure kg		400	400	400	400	
Model No.	1 pc(s).	**7888.460**	**7888.520**	**7888.530**	**7888.532**	
Product-specific scope of supply						
Side panels, lockable, including security lock 3524 E	2 pc(s).	■	■	■	–	
Baying kit	4 pc(s).	–	–	–	■	
Accessories						
Flex-Block corner pieces, 100 mm	4 pc(s).	8100.000	8100.000	8100.000	8100.000	Cat. 34, 511
Flex-Block trim panels, 100 mm, vented	2 pc(s).	8100.802	8100.802	8100.802	8100.802	Cat. 34, 511
Flex-Block trim panels, 100 mm, solid	2 pc(s).	8100.800	see page	8100.800	8100.800	Cat. 34, 511
Side panels	2 pc(s).	–	–	–	7888.652	11
Baying kit	4 pc(s).	7000.640	7000.640	7000.640	–	11
Brush kit for cable entry in the roof	2 pc(s).	7888.612	7888.612	7888.612	7888.612	11
Fan mounting plates	1 pc(s).	5502.020	5502.020	5502.020	5502.020	13
Fan expansion kit	1 pc(s).	7980.000	7980.000	7980.000	7980.000	13
Complete earthing kit	1 pc(s).	7000.675	7000.675	7000.675	7000.675	13
Component shelf, static installation	1 pc(s).	7000.620	7000.620	7000.620	7000.620	17
Component shelf, complete set, pull-out	1 pc(s).	7000.625	7000.625	7000.625	7000.625	18
Slide rails	2 pc(s).	7963.410	7963.410	7963.410	7963.410	19

Expertise from
the Rittal Technology
Library

Network enclosures TE 8000

System accessories Page 11 **IT monitoring** Page 26 **IT cooling** Cat. 34, page 427 **IT power** Page 23

Benefits:
- No frame structure
- Optimum accessibility
- Readily dismantled and therefore easily installed

Material:
- Enclosure: Sheet steel
- Glazed door: Single-pane safety glass, 3 mm

Surface finish:
- Mounting frame: Dipcoat-primed
- Enclosure panels: Powder-coated

Colour:
- RAL 7035

Protection category IP to IEC 60 529:
- IP 20

Supply includes:
- Self-supporting 482.6 mm (19") mounting frames, front and rear, depth-variable
- Glazed door at the front, including 130° hinge, designer handle and security lock 3524 E
- Sheet steel door at the rear, including 130° hinge, security lock 3524 E
- Side panels, lockable, including security lock 3524 E
- Base frame with maximum cut-out (for optional population with module plates)
- Roof plate including concealed cut-out for cable entry and optional fan
- 4 levelling feet, M12, including base/plinth adaptor sleeve (supplied loose)
- 4 spacers, 20 mm (supplied loose) to raise the roof plate
- Flex-Block base/plinth 100 mm, vented
- Tested frame earthing to IEC 60 950, fitted
- 4 C rails, for cable clamping in the enclosure depth via cable clamps (supplied loose)
- 10 cable shunting rings (metal version), 125 x 65 mm (supplied loose)
- 50 multi-tooth screws M5, cage nuts M5, conductive (supplied loose)
- Brush kit for cable entry in the roof (supplied loose)

Pre-configured

Units U	Packs of	24	42	Page
Width mm		800	800	
Height mm		1200	2000	
Height including base/plinth mm		1300	2100	
Depth mm		800	800	
Distance between prefitted 482.6 mm (19") levels mm		495	495	
Max. load capacity (static) per enclosure kg		400	400	
Model No.	1 pc(s).	**7888.840**	**7888.850**	
Accessories				
Baying kit	4 pc(s).	7000.640	7000.640	11
Fan mounting plates	1 pc(s).	5502.020	5502.020	13
Fan expansion kit	1 pc(s).	7980.000	7980.000	13
Component shelf, static installation	1 pc(s).	7000.620	7000.620	17
Component shelf, complete set, pull-out	1 pc(s).	7000.625	7000.625	18
Slide rails	2 pc(s).	7963.410	7963.410	19
Socket strip for TE	1 pc(s).	7000.630	7000.630	22
Transport castors	4 pc(s).	7000.672	7000.672	11

System accessories Page 11 **Power System Module** Cat. 34, page 409 **IT monitoring** Page 26 **Climate control** Cat. 34, page 307

Benefits:
- No frame structure
- Optimum accessibility
- Readily dismantled and therefore easily installed

Material:
- Sheet steel

Surface finish:
- Mounting frame: Dipcoat-primed
- Enclosure panels: Powder-coated

Colour:
- RAL 7035

Protection category IP to IEC 60 529:
- IP 20

Supply includes:
- Self-supporting 482.6 mm (19") mounting frames, front and rear, depth-variable
- Sheet steel door vented (vented surface area > 67%), front with designer handle, 130° hinge, security lock 3524 E
- Sheet steel door vented (vented surface area > 67%), rear with 130° hinge, security lock 3524 E
- Base frame with maximum cut-out (for optional population with module plates)
- Roof plate including concealed cut-out for cable entry and optional fan
- 4 levelling feet, M10 (supplied loose)
- 4 spacers, 20 mm (supplied loose) to raise the roof plate

Please observe the product-specific scope of supply.

Depth 1000 mm, vented

Units U	Packs of	24	42	42	Page
Width mm		600	600	800	
Height mm		1200	2000	2000	
Depth mm		1000	1000	1000	
Distance between prefitted 482.6 mm (19") levels mm		745	745	745	
Max. load capacity (static) per enclosure kg		700	700	700	
Model No.	1 pc(s).	**7888.875**	**7888.882**	**7888.892**	
Product-specific scope of supply					
Side panels, lockable, including security lock 3524 E	2 pc(s).	■	–	–	
Accessories					
Flex-Block corner pieces, 100 mm	4 pc(s).	8100.000	8100.000	8100.000	Cat. 34, 511
Flex-Block trim panels, 100 mm, vented	2 pc(s).	8100.602	8100.602	8100.802	Cat. 34, 511
Flex-Block trim panels, 100 mm, solid		see page	see page	see page	Cat. 34, 511
Baying kit	4 pc(s).	7000.640	7000.640	7000.640	11
Side panels	2 pc(s).	–	7888.653	7888.653	11
Brush kit for cable entry in the roof	2 pc(s).	7888.610	7888.610	7888.612	11
Complete earthing kit	1 pc(s).	7000.675	7000.675	7000.675	13
Component shelf, static installation	1 pc(s).	5501.665	5501.665	5501.665	18
Component shelf, pull-out	1 pc(s).	5501.685	5501.685	5501.685	17
Slide rails, heavy-duty	2 pc(s).	7063.740	7063.740	7063.740	19
Slide rails, depth-variable	2 pc(s).	5501.480	5501.480	5501.480	19
Cable clamp rails, depth-variable	4 pc(s).	7858.162	7858.162	7858.162	16

Distributor racks

System accessories Page 11 **19" installation** Page 21 **TE 8000** Page 6

Benefits:
- Optimum accessibility from all sides during assembly and installation
- Unrestricted airflow, due to the open design
- Standard cable trays in the roof area for larger quantities of cables
- The distance between attachment levels is infinitely variable

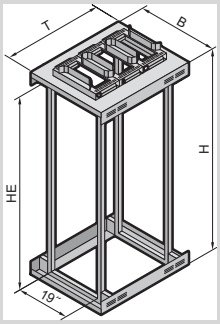
Material:
- Sheet steel

Surface finish:
- Powder-coated

Colour:
- RAL 7035

Supply includes:
- Self-supporting mounting frame, with 482.6 mm (19") mounting level front and rear
- Open roof frame for cable entry
- 3 cable routing trays
- Open base frame with 2 punched sections with mounting flanges for individual configuration fitted in the width
- 4 levelling feet, M10 (supplied loose)

Note:
- The overall height is 2100 mm, including 100 mm cable routing trays



TE 8000 open

Units U	Packs of	42	42	Page
Width (B) mm		600	800	
Height (H) mm		2000	2000	
Depth (T) mm		1000	1000	
Distance between prefitted 482.6 mm (19") levels mm		745	745	
Max. load capacity (static) per enclosure kg		700	700	
Model No.	1 pc(s).	**7888.940**	**7888.944**	
Accessories				
Component shelf, static installation	1 pc(s).	5501.665	5501.665	18
Component shelf, pull-out	1 pc(s).	5501.685	5501.685	17
Slide rails, heavy-duty	2 pc(s).	7063.740	7063.740	19
Slide rails, depth-variable	2 pc(s).	5501.480	5501.480	19
Cable clamp rails, depth-variable	4 pc(s).	7858.162	7858.162	16
Cable clamp rails	4 pc(s).	7828.062	7828.062	16
C rails	4 pc(s).	7828.060	7828.060	16
Cable route	1 pc(s).	7000.685	7000.685	18
Cable duct	1 pc(s).	5502.105	5502.105	20
Shunting ring	4 pc(s).	7220.600	7220.600	20
Cable routing bars, 482.6 mm (19") attachment	4 pc(s).	7111.224	7111.224	20
Cable management panel		see page	see page	21

Side panels

for TE 8000
Simple assembly with insertion aid at the bottom and lock at the top. Earthing bolt with contact lug.

Material:
– Sheet steel

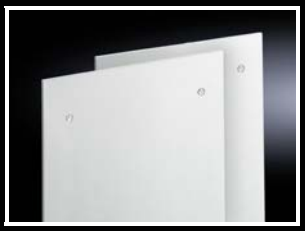
Surface finish:
– Powder-coated

Colour:
– RAL 7035

Protection category IP to IEC 60 529:
– IP 20

Supply includes:
– Side panels, lockable, including security lock 3524 E

For enclosure height mm	For enclosure depth mm	Packs of	**Model No.**
2000	800	2 pc(s).	**7888.652**
2000	1000	2 pc(s).	**7888.653**



Baying kit

for TE/TE
For connecting individual enclosures into bayed suites at the sides. The enclosures are connected between the base and roof frame.

Material:
– Sheet steel

Surface finish:
– Zinc-plated

Supply includes:
– Assembly parts

Packs of	**Model No.**
4 pc(s).	**7000.640**

Transport castors

for TE
The castors may be screw-fastened in the corner areas within the base frame in place of the levelling feet. Ground clearance: 58 mm, mounting thread M10 x 20.

Supply includes:
– Assembly parts

Max. load capacity (static) per enclosure kg	Packs of	**Model No.**
300	4 pc(s).	**7000.672**

Brush kit for cable entry in the roof

for TE
To activate cable entry in the roof plate.

Benefits:
– For simple top-mounting on the cut-out edge

Material:
– Plastic support with brushes

For enclosure width mm	Packs of	**Model No.**
600	2 pc(s).	**7888.610**
800	2 pc(s).	**7888.612**

Accessories

Ergoform-S lock system

The unlocked handle folds down forwards, and the lock is opened by swivelling.

Material:
– Die-cast zinc

Surface finish:
– Powder-coated

Design Standard

Colour	Packs of	**Model No.**
RAL 7035	1 pc(s).	**2435.000**

Accessories:

– Lock inserts, see Cat. 34, page 570
– Semi-cylinders, see Cat. 34, page 565

Security handle

with code
Flexible access option with individual 3-digit numerical code, without key, or via the master key function with additional installation of a 40 or 45 mm semi-cylinder to DIN 18 252, irrespective of the numerical code.

Colour	Design	Packs of	**Model No.**
RAL 7035	Ergoform-S handle	1 pc(s).	**7200.810**

Accessories:

– Semi-cylinders, see Cat. 34, page 565
– Handle adaptor, see Cat. 34, page 549
– Lock inserts, see Cat. 34, page 570

CMC III handles

Electromechanical handle system for control and monitoring via a central CMC III control unit

Maximum no. of users, CMC III Processing Unit Compact	2
Maximum no. of users, CMC III Processing Unit	16
Note	Max. 5 p. for power supply with PoE
Lock type	Electromagnetic
Design	Ergoform-S handle
Primary input voltage	24 V DC
Rated current mA	100
Operating temperature range	+5°C...+40°C
Product-specific scope of supply	Connection cable (3 m) with RJ 12 connector Connection cable (2 m) with RJ 12 connectors Coupling for extension with RJ12 jacks
Packs of	1 pc(s).
Model No.	**7320.700**

Also required:

– CMC III Processing Units, see page 26
– CMC III CAN bus connection cable, see page 27

Fan mounting plates

for TS IT, TE

For active ventilation. The unit may optionally be extended with additional fans.

Applications:
- For use in the cut-out integrated into the roof plate.

Colour:
- RAL 7035

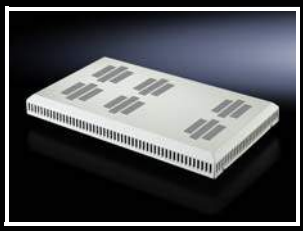
Supply includes:
- Fan unit
- 2 fans
- 1 thermostat
- Open connection cable
- Assembly parts

Note:
- Connection via distributor box or country-specific connector.

Width mm	340
Height mm	54
Depth mm	550
Number of fans	2
Number of fans (max.)	6
Rated operating voltage V	230
Operating temperature range	+5°C...+55°C
Packs of	1 pc(s).
Model No.	**5502.020**

Accessories:

- Fan expansion kit, see page 13



Fan expansion kit

For use as a stand-alone fan, and for upgrading various fan units or to supplement the fan mounting plate.

Supply includes:
- Fan
- Connection cable (0.61 m)
- Assembly parts

Width mm	119
Height mm	119
Depth mm	38
Number of fans (max.)	–
Air throughput (unimpeded air flow) m^3/h	160 / 180
Rated operating voltage V, ~, Hz	230, 1~, 50/60
Power consumption W	15 / 14
Operating temperature range	-10°C...+55°C
Noise level dB(A)	37 / 37
Packs of	1 pc(s).
Model No.	**7980.000**

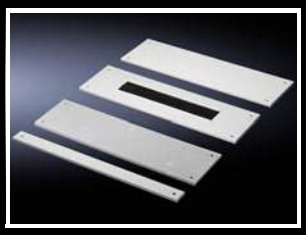
Complete earthing kit

for TE

To DIN EN 60 950/VDE 0805, Ø 4 mm^2. For system-compatible earthing of all enclosure parts on the enclosure frame according to VDE. The earth conductors are pre-assembled ready for connection with connectors and cut to the right length.

Supply includes:
- 4 earth straps, 300 mm
- 4 earth straps, 350 mm
- Assembly parts

Packs of	**Model No.**
1 pc(s).	**7000.675**



Module plates

for TE
The base area of the TE may be varied as required using the module plates.

Material:
– Sheet steel, zinc-plated

Supply includes:
– Assembly parts

Note:
– Please note the following when selecting suitable module plates:
B1 = Enclosure width (B) - 150 mm/
T1 = Enclosure depth (T) - 50 mm

Design compensating panel

Width mm	Depth mm	For enclosure width mm	**Model No.**
450	50	600	**7526.750**
450	150	600	**7526.755**
650	50	800	**7526.790**
650	150	800	**7526.795**

Design solid

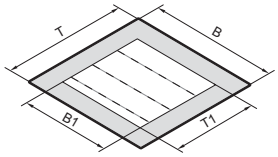
Width mm	Depth mm	For enclosure width mm	**Model No.**
450	200	600	**7526.829**
650	200	800	**7526.834**

Design vented

Width mm	Depth mm	For enclosure width mm	**Model No.**
450	200	600	**7526.760**
450	550	600	**7526.770**
450	750	600	**7526.780**
650	200	800	**7526.800**
650	550	800	**7526.785**
650	750	800	**7526.820**

Design with brush strip

Width mm	Depth mm	For enclosure width mm	**Model No.**
450	200	600	**7526.850**
650	200	800	**7526.860**



TS punched section with mounting flange, 17 x 73 mm

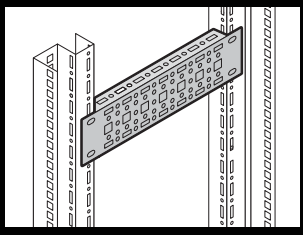
For flexible interior installation designs, and/or to accommodate additional built-in components.
The punched sections with mounting flanges may be located directly on a 482.6 mm (19") mounting frame horizontally at the rear or in the enclosure depth between two mounting frames. An additional screw fastening secures the unit.
If the rail is to be attached between two mounting frames, it is necessary to secure the two 482.6 mm (19") mounting frames at the corresponding distance from one another beforehand.
For simplified setting of this desired 19" distance between levels, the enclosure frame of the TE 8000 has mounting attachment points on a 50 mm hole pattern.

Material:
– Sheet steel

Surface finish:
– Zinc-plated

Supply includes:
– 4 punched sections with mounting flanges
– Assembly parts

Note:
– When selecting a distance between levels outside of the mounting attachment points, it is advisable to use the depth-variable punched section with mounting flange; see page 15



Type of attachment	In the enclosure width	In the enclosure depth					
Distance between 482.6 mm (19") levels mm	–	445	495[1]	545	595	645	695
Model No.	**8612.060**	**8612.140**	**8612.040**	**8612.150**	**8612.050**	**8612.160**	**8612.060**

[1] To directly fit enclosures in their delivered state

TS punched section with mounting flange, 17 x 73 mm

depth-variable

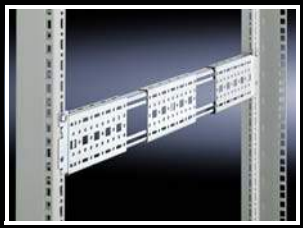
For flexible interior installation designs, and/or to accommodate additional built-in components.
The punched sections with mounting flanges may be located in the enclosure depth between two mounting frames. An additional screw fastening secures the unit.
The depth variability of the rails facilitates flexible adaptation to the existing attachment distance between the two 482.6 mm (19") mounting frames. An additional punched section centre piece may be slid along the rail in the depth and secured to slots.

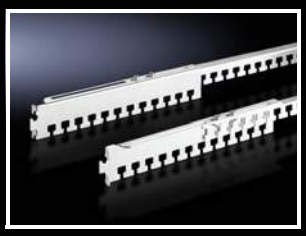
Length mm	Packs of	**Model No.**
530 – 700	2 pc(s).	**7000.678**

Material:
– Sheet steel

Surface finish:
– Zinc-plated

Supply includes:
– Assembly parts





Cable clamp rails

For strain relief of the routed cables. The cables may be attached to the cable clamp rails with cable ties or nylon loops. The cable clamp rails may be installed horizontally at the rear directly onto a 482.6 mm (19") mounting frame or in the enclosure depth between two 482.6 mm (19") mounting frames.
The depth-variable version of the rails facilitates flexible adaptation of their length to the prescribed attachment distance between the two 482.6 mm (19") mounting frames.

Material:
– Sheet steel

Supply includes:
– 4 cable clamp rails
– Mounting accessories

Accessories:
– Cable ties, see page 20
– Nylon loop, see page 20

Type of attachment	In the enclosure width	In the enclosure depth	
Distance between 482.6 mm (19") levels mm	–	325 – 575[1)]	500 – 895
Model No.	**7828.062**	**7858.160**	**7858.162**

[1)] To directly fit enclosures in their delivered state

C rails

To accommodate large tensile forces, larger cables or cable strands via cable clamps, and for orderly cable routing inside the enclosures.
The cable clamp rails may be attached horizontally at the rear directly onto a 482.6 mm (19") mounting frame or in the enclosure depth between two mounting frames.
If the rail is to be attached between two mounting frames, it is necessary to secure the two 482.6 mm (19") mounting frames at the corresponding distance from one another beforehand.

Material:
– Sheet steel

Surface finish:
– Zinc-plated

Supply includes:
– 4 C rails
– Assembly parts

Accessories:
– Cable clamps, see page 20

Cable routing within the 19" mounting frame

Type of attachment	In the enclosure width	In the enclosure depth		
Distance between 482.6 mm (19") levels mm	–	445/495[1)]	545/595	645/695
Model No.	**7828.060**	**7828.040**	**7828.050**	**7828.060**

[1)] To directly fit enclosures in their delivered state

Cable routing at the side, outside the 19" mounting frame (for 800 mm enclosure width only)

Type of attachment	In the enclosure depth		
Distance between 482.6 mm (19") levels mm	495[1)]	595	695
Model No.	**4943.000**	**4944.000**	**4945.000**

[1)] To directly fit enclosures in their delivered state

Component shelf, static installation

for TE
The component shelf is attached directly at the side to the front and rear 482.6 mm (19") mounting frames for TE.

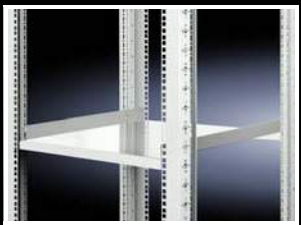
Material:
– Sheet steel

Colour:
– RAL 7035

Supply includes:
– Assembly parts

Note:
– Not suitable for combination with telescopic slides.

Width mm	511
Height mm	22
Depth mm	413
Distance between levels mm	495
Load capacity (static)	30 kg surface load, static
Packs of	1 pc(s).
Model No.	**7000.620**



Component shelf, pull-out

482.6 mm (19") for TS IT, TE
For mounting between two 482.6 mm (19”) mounting levels, on 482.6 mm (19”) mounting angles or 482.6 mm (19”) mounting frames.

Applications:
– Depth-variable to adapt to individual distances between levels

Benefits:
– Tool-free, time-saving one-man assembly from the enclosure front
– Self-locking
– Fully extendible

Material:
– Sheet steel

Surface finish:
– Base: Spray-finished
– Telescopic slides/installation kit: Zinc-plated

Colour:
– RAL 9005

Supply includes:
– Component shelf, slotted
– Telescopic slide with mounting kit
– Assembly parts

Width mm	Depth mm	Distance between levels mm	Load capacity (static)	Height U	Packs of	**Model No.**
419	500	400 - 600	100 kg	1.5	1 pc(s).	**5501.715**
419	700	600 - 900	100 kg	1.5	1 pc(s).	**5501.725**
419	500	400 - 600	50 kg	1	1 pc(s).	**5501.675**
419	700	600 - 900	50 kg	1	1 pc(s).	**5501.685**

Component shelf, static installation

for 482.6 mm (19") system punchings, depth-variable for TS IT, TE

Applications:
– Depth-variable to adapt to individual distances between levels

Benefits:
– Tool-free, time-saving one-man assembly

Installation options:
– 482.6 mm (19") L mounting angles, front and rear
– 482.6 mm (19") mounting frames front and rear

Material:
– Sheet steel

Surface finish:
– Spray-finished

Colour:
– RAL 9005

Supply includes:
– Assembly parts

Distance between levels mm	Load capacity (static)	Height U	Packs of	**Model No.**
400 - 600	100 kg	1	1 pc(s).	**5501.695**
600 - 900	100 kg	1	1 pc(s).	**5501.705**
400 - 600	50 kg	0.5	1 pc(s).	**5501.655**
600 - 900	50 kg	0.5	1 pc(s).	**5501.665**

Component shelf, complete set, pull-out

482.6 mm (19") system punchings

The complete set contains a vented component shelf, telescopic slides and a mounting kit for direct attachment. The mounting kit also offers depth-variable attachment within 395 – 645 mm on a 25 mm pitch pattern.

Installation options:
– 482.6 mm (19") L mounting angles, front and rear
– 482.6 mm (19") mounting frames front and rear

Material:
– Base: Sheet steel

Surface finish:
– Base: Spray-finished
– Mounting kit/telescopic slides: Zinc-plated

Colour:
– RAL 7035

Supply includes:
– 1 component shelf, telescopic slides, mounting kit

Width mm	482.6
Depth mm	500
Distance between levels mm	395 - 645
Load capacity (static)	50 kg area load
Packs of	1 pc(s).
Model No.	**7000.625**

Cable route

for TE

For vertical cable entry at the side of the 482.6 mm (19”) mounting frame for TE, independently from the enclosure frame.

Material:
– Sheet steel

Surface finish:
– Zinc-plated

Supply includes:
– Assembly parts

Width mm	Height mm	Packs of	**Model No.**
100	1700	1 pc(s).	**7000.685**

Slide rails, depth-variable

for TS IT, TE

Applications:
- For mounting between the front and the rear pair of mounting angles.
- To support heavy installed equipment.
- To adapt to individual distances between 482.6 mm (19") levels

Benefits:
- Tool-free, time-saving one-man assembly from the enclosure front
- All three mounting holes in the EIA system punchings are available for screw-fastening the equipment.
- Alternatively, direct screw fastening to the 482.6 mm (19") system punchings is also possible

Installation options:
- 482.6 mm (19") L mounting angles, front and rear
- 482.6 mm (19") mounting frames front and rear

Material:
- Sheet steel

Surface finish:
- Zinc-plated

Supply includes:
- Assembly parts

Note:
- Effective contact surface 25 mm per side

Distance between 482.6 mm (19") levels mm	Load capacity (static)	Packs of	**Model No.**
400 - 600	80 kg	2 pc(s).	**5501.460**
600 - 900	150 kg	2 pc(s).	**5501.480**

Slide rails, heavy-duty

for TS IT, TE

With L-shaped mounting angles or TE mounting frame and a clearance between levels of 740 mm. Easily and quickly installed due to locating brackets for the rear level.

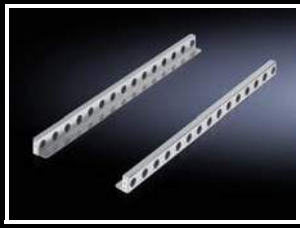
Material:
- Sheet steel

Surface finish:
- Zinc-plated

Load capacity:
- 100 kg area load

Supply includes:
- Assembly parts

Distance between 482.6 mm (19") levels mm	Contact surface, width mm	Contact surface, depth mm	Packs of	**Model No.**
745	50	734	2 pc(s).	**7063.740**



Slide rails

for TS IT, TE

For mounting between the front and rear 482.6 mm (19") mounting levels. The slide rails can be used to support heavy 482.6 mm (19") components.

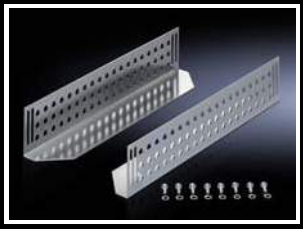
Material:
- Sheet steel

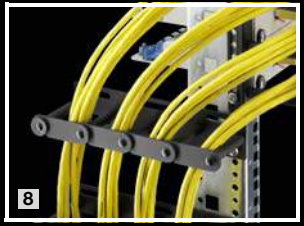
Surface finish:
- Zinc-plated

Load capacity:
- 80 kg, static load

Supply includes:
- Assembly parts

Distance between 482.6 mm (19") levels mm	Contact surface, width mm	Contact surface, depth mm	Packs of	**Model No.**
395	85	324	2 pc(s).	**7963.310**
495	85	424	2 pc(s).	**7963.410**
595	85	524	2 pc(s).	**7963.510**
695	85	624	2 pc(s).	**7963.610**
795	85	724	2 pc(s).	**7963.710**



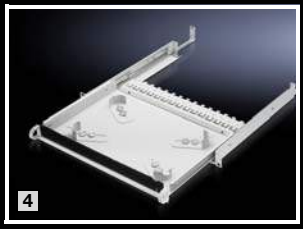


Cable management

			Packs of	Model No.	Cat. 34, page
1	**Cable clamps for cable diameter**	6 – 14 mm	25 pc(s).	**7077.000**	666
		12 – 18 mm		**7078.000**	
		18 – 22 mm		**7097.000**	
		22 – 26 mm		**7097.220**	
		26 – 30 mm		**7097.260**	
		30 – 34 mm		**7097.300**	
		34 – 38 mm		**7097.340**	
		38 – 42 mm		**7098.000**	
		42 – 56 mm		**7097.100**	
		56 – 64 mm		**7099.000**	
2	**Cable ties**		100 pc(s).	**2597.000**	667
3	**Nylon loop fastening**	20 x 130 mm	10 pc(s).	**7072.220**	667
		20 x 200 mm	10 pc(s).	**7072.230**	
		20 x 300 mm	10 pc(s).	**7072.240**	
4	**Nylon loop strap**	16 x 5000 mm	1 pc(s).	**2203.400**	667
5	**Cable shunting ring**	125 x 85 mm	10 pc(s).	**7111.900**	670
		125 x 65 mm	10 pc(s).	**7111.000**	
		85 x 43 mm	10 pc(s).	**7112.000**	
6	**Shunting ring**	330 x 90/70 mm	4 pc(s).	**7220.600**	670
7	**Cable routing bars for attachment to the 482.6 mm (19") system punchings**	4 U	4 pc(s).	**7111.224**	673
		1 U	10 pc(s).	**7111.214**	
8	**Cable routing bars for all-round attachment**	4 U	4 pc(s).	**7111.222**	673
		1 U	10 pc(s).	**7111.212**	
9	**Cable duct, RAL 9005, for enclosure W x H**	800 x 2000 mm	1 pc(s).	**5502.105**	673

482.6 mm (19") installation system

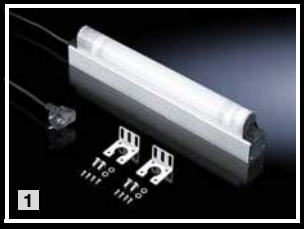
			Packs of	Model No.	Cat. 34, page
1	**Blanking panel, sheet steel, RAL 7035**	1 U	2 pc(s).	**7151.035**	696
		1.5 U		**7157.035**	
		2 U		**7152.035**	
		3 U		**7153.035**	
		6 U		**7156.035**	
2	**Blanking panel, tool-free attachment, RAL 9005**	3 U (3 x 1 U)	3 pc(s).	**7151.305**	
3	**Cable entry panel, sheet steel, RAL 9005**	1 U	1 pc(s).	**5502.255**	677
		2 U	1 pc(s).	**5502.265**	
4	**Drawer to accommodate surplus cables, RAL 7035**	1 U	1 pc(s).	**7063.200**	674
5	**Cable management panel with steel rings, ring 43 x 55 mm, RAL 7035**	1 U	1 pc(s).	**7257.200**	674
	Cable management panel with steel rings, ring 43 x 105 mm, RAL 7035	1 U	1 pc(s).	**7257.035**	
	Cable management panel with steel rings, ring 85 x 125 mm, RAL 7035	2 U	1 pc(s).	**7257.100**	
6	**Cable management panel, RAL 7035**	2 U	1 pc(s).	**7158.035**	675
7	**Cable management panel with cable routing bars, RAL 7035**	1 U	1 pc(s).	**7257.050**	675
8	**Cable routing channel panel, RAL 7035**	1 U	1 pc(s).	**7149.135**	675
9	**Panel for cable routing, RAL 7035**	2 U	1 pc(s).	**7269.135**	676
10	**Cable tray, RAL 7035**	2 U	1 pc(s).	**7269.235**	676
11	**Cable management duct, horizontal, RAL 7035**	2 U	1 pc(s).	**7158.100**	676
12	**Adhesive measurement strips**	1 – 56 U	1 pc(s).	**7950.100**	686



Accessories

482.6 mm (19") assembly components

		Packs of	Model No.	Cat. 34, page
1	**Captive nuts M5, with contact**	50 pc(s).	**2094.500**	694
	Captive nuts M5, without contact	50 pc(s).	**2092.500**	
	Captive nuts M6, with contact	50 pc(s).	**2094.200**	
	Captive nuts M6, without contact	50 pc(s).	**2092.200**	
2	**Multi-tooth screws M5 x 16 mm**	50 pc(s).	**7094.130**	694
	Multi-tooth screws M6 x 16 mm	50 pc(s).	**7094.140**	



System lights

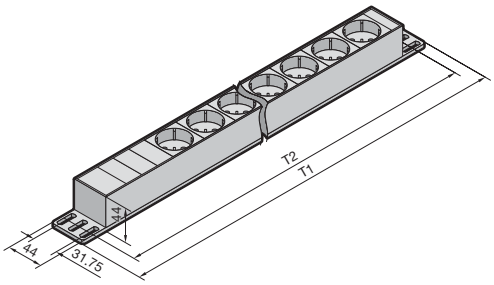
		Packs of	Model No.	Cat. 34, page
1	**Light, 1 U** Fluorescent tube 8 watts, 230 V, 50 Hz, with 2.5 m connection cable and earthing-pin connector	1 pc(s).	**7109.200**	637
2	**Compact light** Fluorescent lamp T5, 8 watts, 230 V, 50 Hz, with 3 m connection cable (open ended)	1 pc(s).	**4140.010**	636
3	**Mounting kit magnet for compact light**	2 pc(s).	**4140.000**	636
4	**Door-operated switch for compact light** with connection cable 600 mm	1 pc(s).	**4315.710**	639
	Mounting kit for door-operated switch in TE 8000	1 pc(s).	**7888.615**	–
5	**Socket strip, 8 sockets, earthing pin**	1 pc(s).	**7000.630**	423

Further system lights may be found in Catalogue 34, from page 634

Socket strips

in an aluminium duct

The socket strips in the aluminium duct are available in various lengths with different functional elements. Special attention has been devoted to practical, universal fastening:
Variable attachment facilities have been created with an angle bracket which may be inserted in four positions. Hence, for example, the 482 mm long socket strip may optionally be mounted on 482.6 mm (19") mounting angles, the 482.6 mm (19") mounting frame, on the enclosure frame, or in the rear section of the wall-mounted distributor. Without additional mounting accessories, the socket strip may be inserted into all sections with a 25 mm hole pattern. This makes selection much easier, as well as providing additional flexibility and saving on warehousing. Provision has also been made for cable routing of the infeed, and when mounting in the 482.6 mm (19") section there is adequate space to route the infeed between the socket strip and the profile rail without kinks.
The arrangement of the IEC 320 sockets at a 45° angle allows unrestricted use of angular connectors.



Technical specifications:
Earthing-pin socket strips:
- Connector type F (CEE 7/4)
- Rated operating voltage: 250 V
- Connection cable: 2 m long H05VV-F3G1.5 without connector, 5 with connector

Belgium/France (B/F) socket strips:
- Connector type E (CEE 7/5)
- Rated operating voltage: 250 V
- Connection cable: 2 m long H05VV-F3G1.5 with wire end ferrules

Equipment connector strips (IEC 60 320-1/C13) socket strips:
- Rated operating voltage: 250 V
- Connector input: C14 or cable H05VV-F3G1.0, depending on the version

Material:
- Aluminium section: Natural anodised
- Socket inserts: Polycarbonate

Supply includes:
- Socket strip
- Two mounting brackets
- Assembly parts

Standards:
- Earthing-pin socket: DIN 49 440
- IEC 320 socket: EN 60 320-2-2
- Overvoltage protection: DIN EN 61 643-11 (VDE 0675 Part 6-11)

Approvals:
- CE
- RoHS

Note:
- Depending on the application, we recommend use of a charging current reserve to prevent incorrect activation due to starting-current spikes

Technical details:
Available on the Internet

Earthing-pin connector type

Version	Rated current A	Connection	No. of sockets	Attachment: Frame	Attachment: Wall-mounted distributor, horizontal	Attachment: 482.6 mm (19") level	Length (T1) mm	Mounting dimension (T2) mm[1]	Model No.
1 Without rocker switch	16	Cable	3	■	–	–	262.6	232.5	**7240.110**
			7	■	■	■	482.6	452.5	**7240.210**
			12	■	–	–	658.6	628.5	**7240.310**
2 With rocker switch	16	Cable	3	■	■	–	306.6	276.5	**7240.120**
			7	■	■	■	482.6	452.5	**7240.220**
3 Overvoltage protection, type 3 and interference suppressor filter	16	Cable	5	■	■	■	482.6	452.5	**7240.230**
			9	■	–	–	658.6	628.5	**7240.330**
4 Circuit-breaker, type B, 16 A, 2-pole	16	Cable	5	■	■	■	482.6	452.5	**7240.240**
5 UPS strip, connection cable with 10 A IEC 320 connector, type E, with G fuse, 10 A	10	C14	7	■	■	■	482.6	452.5	**7240.260**
6 FI switch, 0.03 A, 2-pole, type A	16	Cable	5	■	■	■	482.6	452.5	**7240.280**
B/F sockets, type E with earthing pin (Belgium/France)	16	Cable	7	■	■	■	482.6	452.5	**7240.510**

[1] Variable attachment distance within a range of 25 mm, the distance given is hole centre – hole centre of mounting bracket

C13 connector type

Version	Rated current A	Connection	No. of sockets	Attachment: Frame	Attachment: Wall-mounted distributor, horizontal	Attachment: 482.6 mm (19") level	Length (T1) mm	Mounting dimension (T2) mm[1]	Model No.
For IEC 320 connectors	16	Cable	12	■	■	■	482.6	452.5	**7240.200**
For IEC 320 connectors with IEC 320 input	10	C14	9	■	■	■	482.6	452.5	**7240.201**

[1] Variable attachment distance within a range of 25 mm, the distance given is hole centre – hole centre of mounting bracket

Power distribution unit

for enclosure width 800 mm

Benefits:

- With the compact PDU, any IT rack may be easily equipped with a professional power distribution system
- With the TS IT rack, assembly is even tool-free
- Compact design
- Easy to assemble
- Power-saving design, minimal inherent consumption by the PDU itself, thanks to the use of bistable relays and OLED display with power-saving function
- Integral web server for direct network connection with extensive user administration (not PDU basic/slave PDU)
- Redundant power supply from all 3 phases and additionally via an existing PoE (Power over Ethernet) network
- Extensive range of management and monitoring functions
- High-MTBF and measurement accuracy of +/- 1%
- CAN bus for connecting slave PDUs (not PDU basic)
- Ambient monitoring with up to 4 CMC III sensors (temperature, humidity, access, vandalism)

PDU design variants:
PDU basic
Robust, compact basic power distributor for the IT environment

PDU metered
Energy measurement per phase, i.e. output requirement of an entire IT rack

PDU switched
Measurement function per phase and individually switchable output slots

PDU managed
High-end IT rack, power distribution with energy measurement and monitoring functions for each individual output slot

Material:
– Extruded aluminium section, black

Protection category IP to IEC 60 529:
– IP 20

Standards:
– EN 60 950
– EN 61 000-4
– EN 61 000-6
– EN 55 022

Low Voltage Directive:
– 2014/35/EU

EMC Directive:
– 2014/30/EU

! Also required:

– Mounting adaptor for PDU in TE 7000.688

Photo shows a configuration example with equipment not included in the scope of supply

PDU international, basic version

Power			Pin pattern			Dimensions		Model No.
No. of phases	Phase current A	Output kW	Input	Outputs C13	Outputs C19	PDU length mm	Minimum enclosure height mm	
1	16	3.6	CEE	24	4	970	1200	**7955.110**
1	32	7.2	CEE	24	4	1115	1800	**7955.111**
3	16	11	CEE	18	3	845	1200	**7955.131**
3	16	11	CEE	24	6	1145	1800	**7955.132**
3	32	22	CEE	24	6	1365	1800	**7955.133**
3	16	11	CEE	42	–	1405	1800	**7955.135**

PDU international, metered version

Power			Pin pattern			Dimensions		Model No.
No. of phases	Phase current A	Output kW	Input	Outputs C13	Outputs C19	PDU length mm	Minimum enclosure height mm	
1	16	3.6	C20	12	–	710	1200	**7955.201**
1	16	3.6	CEE	24	4	1225	1800	**7955.210**
1	32	7.2	CEE	24	4	1370	1800	**7955.211**
3	16	11	CEE	18	3	1100	1200	**7955.231**
3	16	11	CEE	24	6	1395	1800	**7955.232**
3	32	22	CEE	24	6	1620	2000	**7955.233**
3	16	11	CEE	42	–	1665	2000	**7955.235**

PDU international, switched version

Power			Pin pattern			Dimensions		Model No.
No. of phases	Phase current A	Output kW	Input	Outputs C13	Outputs C19	PDU length mm	Minimum enclosure height mm	
1	16	3.6	C20	12	–	775	1200	**7955.301**
1	16	3.6	CEE	24	4	1360	1800	**7955.310**
1	32	7.2	CEE	24	4	1400	1800	**7955.311**
3	16	11	CEE	18	3	1180	1800	**7955.331**
3	16	11	CEE	24	6	1480	1800	**7955.332**
3	32	22	CEE	24	6	1685	2000	**7955.333**

PDU international, managed version

Power			Pin pattern			Dimensions		Model No.
No. of phases	Phase current A	Output kW	Input	Outputs C13	Outputs C19	PDU length mm	Minimum enclosure height mm	
1	16	3.6	C20	12	–	775	1200	**7955.401**
1	16	3.6	CEE	24	4	1360	1800	**7955.410**
1	32	7.2	CEE	24	4	1400	1800	**7955.411**
3	16	11	CEE	18	3	1180	1800	**7955.431**
3	16	11	CEE	24	6	1480	1800	**7955.432**
3	32	22	CEE	24	6	1685	2000	**7955.433**

PDU accessories

	Packs of	Model No.	Cat. 34, page
Mounting adaptor for PDU in TE	2 pc(s).	**7000.688**	
Covers for C13 jack, lockable	10 pc(s).	**7955.010**	
Covers for C19 jack, lockable	10 pc(s).	**7955.015**	
Connector, universal lock for C14/C20 connector	20 pc(s).	**7955.020**	
Connection cable D/C19, 1.8 m	1 pc(s).	7200.216	457
Connection cable C19/C20, 1.8 m	1 pc(s).	7200.217	457

CMC III Processing Unit Compact

CMC III Processing Unit Compact

Computer Multi Control (CMC) is an alarm system for network and server enclosures, standard enclosures, containers and rooms.

- It monitors temperatures, humidity, access, smoke, energy and many other physical ambient parameters
- The system is modular in nature and can be flexibly adapted to meet specific monitoring requirements
- User benefits plus exceptional savings are achieved thanks to monitoring via the network and the automation of security processes
- Redundant voltage supply, plus Power over Ethernet (PoE)
- Simple wiring with CAN bus connection system (RJ 45)
- Connection to control room systems via OPC UA

More information can be found on the Rittal website.

Material:
– Plastic

Surface finish:
– Front: Smooth
– Housing: Textured

Colour:
– Front: RAL 9005
– Housing: RAL 7035

Protection category IP to IEC 60 529:
– IP 30

Supply includes:
– Basic system
– Quick-start instructions
– 4 mounting feet

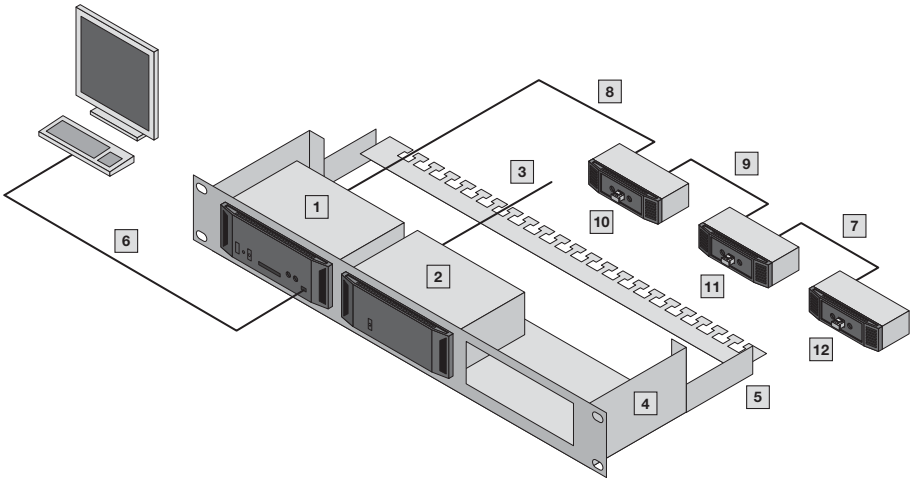
Approvals:
– cULus

W x H x D mm		138 x 40 (1 U) x 120 + 12 (front assembly)
Operating temperature range		0°C…+45°C
Operating humidity range		5 – 95% relative humidity, non-condensing
Sensors/CAN bus connection units		max. 4
Max. overall cable length for CAN bus		1 x 50 m
Model No.		**7030.010**
Interfaces	Network interface (RJ 45)	Ethernet to IEEE 802.3 via 10/100BaseT with PoE
	Front USB interface	Mini USB for system setting
	Rear serial RS232 (RJ 12)	1 x for connecting Display Unit, GSM Unit, or ISDN Unit
	CAN bus (RJ 45)	1 x for max. 4 sensors (quantity restriction, see Cat. 34, page 453)
Inputs and outputs	Digital inputs (terminal)	2
	Relay output (terminal)	Changeover contact max. 24 V (DC), 1 A
Operation/signals	Push-button	1 x acknowledgement button
	Concealed reset button	1 x service button
	Piezo signal generator	1
	LED display	1 x multi-colour OK/warning/alarm
	Rear LED	1 x for the network status
Protocols	Ethernet	TCP/IPv4, TCP/IPv6, SNMPv1, SNMPv2c, SNMPv3, Telnet, SSH, FTP, SFTP, HTTP, HTTPS, NTP, DHCP, DNS, SMTP, Syslog, LDAP, Radius, OPC-UA, Modbus/TCP
Redundant power supply	Input 24 V DC (jack)	1 x for connecting CMC III power pack
	Input 24 V DC (terminals)	1 x for direct connection or for connecting CMC III power pack
	Power over Ethernet PoE	1 x 15.4 W
Functions	Time function	Real-time clock, energy-buffered (24 h) without battery/accumulator, with NTP
	User administration	LDAP, Radius
	User interface	Integral WEB server
	Control room connection	Integral OPC-UA and Modbus/TCP server
Integral sensors	Temperature sensor	NTC sensor with cable, supplied loose
	Access sensor	Infrared technology in the enclosure front

CMC III accessories, application example

	Model No.	
1	**7030.010**	CMC III Processing Unit Compact (with front infrared access sensor, temperature sensor, 2/1 inputs/outputs)
2	**7030.060**	Power pack 100 – 240 V AC to 24 V DC
3	**7200.215**	Connection cable C13/C14
4	**7030.070**	Mounting unit, 1 U
5	**7030.087**	Cable clamp strap
6	**7030.080**	Programming cable USB
7	**7030.090**	CAN bus connection cable 0.5 m
8	**7030.091**	CAN bus connection cable 1 m
9	**7030.093**	CAN bus connection cable 2 m
10	**7030.111**	Temperature/humidity sensor
11	**7030.120**	Access sensor for rear door
12	**7030.130**	Vandalism sensor

Schematic diagram of an application



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