



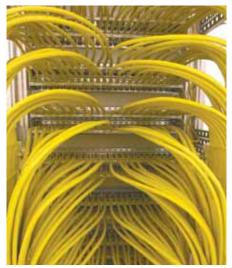
MEC20064



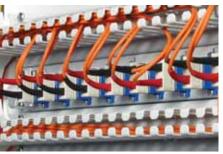
MEC20074

Knürr Cable Management Strong points

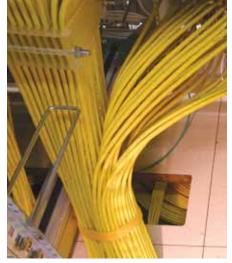
It must be ensured when laying cables that every kind of mechanical stress is avoided.







MEC20058



LIG00021

Bending load

The bending radii may never be less than the values provided by the cable manufacturer in the respective data sheets. At points that bend too much, the electrical properties of the cable change and reduce the transmission bandwidths and ranges.

If manufacturer specifications are not available, then the following rule of thumb applies: With loose cabling, at least 15 times the external cable diameter and with fixed cabling, at least 10 times the external cable diameter.

Buckling load

The most extreme bending loads can cause the cable to break.

Tensile load

This is only determined by the copper cross-section of the conductor, as all other materials are too soft. The cable may not be stressed more than 50N/mm²(Cu cross-section) as otherwise the conductors are stretched and the cross-section is reduced. If higher "pulling" forces are required, then cables with additional strain relief elements must be used.

Compressive stress

Compressive stress is caused by loads bearing down from above, fixed clamping or sharp cable kinking and must always be avoided, as otherwise the "loose" cable structure changes and the electrical transmission properties are impaired.

Torque strains (twisting) These must never have an effect on the cable, as they drive the cable elements into one another and therefore impair the transmission properties.

MEC20084



Knürr Cable Management Strong points

Different components for fiberglass and copper cables, especially the fastening options using Velcro strips and cable bundling using different colored strips, guarantee transparent cable management, which is the optimum starting situation for an intelligent expansion of the network and for the highest standard of service convenience.

1 MEC20082



2 MEC20070



3 MEC20079



4 MEC20091



3 MEC20099



4 MEC20077



5 MEC20071

- With all cable management components, special attention has been paid to ensuring that fixing is possible with Velcro strip cable ties. Velcro cable ties not only guarantee a stress-free fixing of the cables, they can also be released at any time and re-used again and again. Velcro cable ties are also extremely helpful for the installation engineer in providing pinch-free cable bundling and also because they are so quick to apply.
- Excess cable lengths are stored separate from the patch fields, but in a position that is always easy to access. Copper cable excess can be stored separate from fiber glass excess within the Knürr rack systems: the copper cables on the side and the more sensitive fiberglass cables in an excess drawer at the front.
- Some true multi-talents appear on closer examination of the individual products. The cable routing multifunctional brace, for example, not only provides the option of routing cables horizontally and vertically using Velcro ties or cable ties, but rather also allows numerous components to be mounted with screws and caged nuts. These caged nuts can also be shifted with room for play in a slot, so that every mounting dimension can be accommodated.
- The prescribed radii are preset with the radial limiter. These components ensure that neither a reduction of the transmission bandwidths and ranges nor a cable break occur.

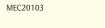


MEC00110



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11	11	114	11	11	
		13			5
- L1		121		1.1	





MEC20104

19" Cable Routing Board, 1 U

- For orderly cable routing For safe and secure cable routing of copper
- and fiberglass cables

Material/Finish Type 1:

Front panel, sheet steel, 1.5 mm Powder-coated, RAL 7035, light gray

Type 2: Front panel: sheet steel 1.0 mm, powdercoated, RAL 7035 light gray

Color

Type 1

Final digit of order number .1: RAL 7035 light gray Final digit of order number .8: RAL 7021 dark gray

External dimensions

Cable routing: Type 1: 55 x 22 mm, plastic Type 2: 95 x 32 mm, steel

Supply schedule

1 19" front panel 5 cable routers

How supplied

Preassembled

Note

Please also order front panel mounting material.

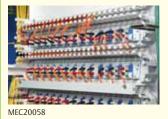
W H	D	U	Model	Order no. UP
483		1	Type 1	05.040.111.1 🤡 1 unit
483		1	Type 2	01.117.144.1 🧕 1 unit
483		1	Type 1	05.040.111.8 🥌 1 unit
483		1	Type 2	01.117.144.8 🧕 1 unit

W	Н	D	U	Model	Order no. UP	
483			1	Type 1	05.040.100.1 🧕 1 ur	nit
483			2	Type 2	05.040.101.1 🧕 1 ur	nit
483			1	Type 1	05.040.100.8 🧕 1 ur	nit
483			2	Type 2	05.040.101.8 🥳 1 ur	nit

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MFC20081





Fiber optic cable routing panel 1 U

- For orderly cable routing
- For safe and secure cable routing of fiber optic cables
- Optionally with cover panels to protect the cables and as labeling option

Material/Finish

- Sheet steel, 1.5 mm Powder-coated texture, RAL 7035
- Supply schedule 1 19" cable routing panel
- How supplied In units

Note

Please also order front panel mounting material and cover. Not suitable for rack widths 600 mm and 700 mm (asymmetric)!

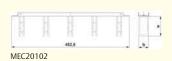
19" Blanking Panel Cable Port, threaded connection

For orderly cable management in the

W	Н	D	U		Order no.	UP
483				Cable routing panel		
				Accessories: Cover	05.040.051.1 🧕	1 unit



MEC20041





MEC20076

19" Cable Routing Board, flexible, 1 U

For orderly cable routing

Material/Finish

For safe and secure cable routing of copper and fiberglass cables

- Front panel, sheet steel, 1.5 mm Powder-coated texture, RAL 7035 Jumpering bracket, round steel, d = 5 mm, zinc-passivated
- Color
- Final digit of order number .1: RAL 7035 light gray Final digit of order number .8: RAL 7021 dark gray
- External dimensions Cable routers (a x b): 1 U: 82 x 43 mm 2 U: 102 x 82 mm
- Supply schedule 1 front panel 5" cable routing boards
- How supplied Preassembled
- Note
 - Please also order front panel mounting material.







CUD00023



CUD00022

w	Н	D	U	For rack type	Order no.	UP
483	44		1	Powder-coated	01.103.231.1	🗧 6 units
483	88		2	Powder-coated	01.103.232.1	🛃 3 units



Sheet steel, 1.0 mm Finish Final digit of order number .1:

Material

rack internal space

With edge protector

- Powder-coated texture, RAL 7021 dark arav
- 6 19" blanking panel cable ports
- Flat-packed kit

material.

- - Powder-coated, RAL 7035, light gray Final digit of order number .8:
 - Supply schedule
 - How supplied
 - Please also order front panel mounting



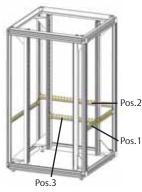




MEC20091



MEC20078



MIR88001

WRack HRack	DRack	L	Model	for rack type	Order no.	UP
	600	455	Pos. 1	Miracel	05.040.200.9 🔮	4 units
	800	655	Pos. 1	Miracel	05.040.201.9 🔮	4 units
	900	755	Pos. 1	Miracel	05.040.202.9	4 units
	1000	855	Pos. 1	Miracel	05.040.203.9	4 units
600		534	Pos. 2	Miracel/Smaract	05.040.213.9	4 units
800		734	Pos. 2	Miracel	05.040.214.9	4 units
		468	Pos. 3	Miracel/Smaract/DPR	05.040.215.9	4 units
	1055		Pos. 1	Miracel	05.040.205.9	4 units

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MIR00089

Cable routing brace

- For mounting on the Miracel/Smaract basic rack and on the 19" extrusion For cable clamping using Velcro strips,
- cable ties
- For orderly cable management in the rack Two-sided installation
- For universal mounting option using caged nuts (all dimensions can be _ accommodated, as caged nuts are flexible)
- Material
- Sheet steel, 1.5 mm
- Finish
- Zinc-passivated
- Supply schedule 4 cable routing braces Mounting material
- How supplied In units
- Note
- If required, please also order Velcro strip.

Multifunctional brace

- For routing cables with cable ties – For universal mounting options

- Holes for mounting caged nuts

and lateral

Material

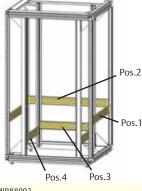
Finish Zinc-passivated

Installation positions

Sheet steel, 1.5 mm

- Distance between two multifunctional braces can be variably selected using T-slot Installation on the extrusions of the rack frame or on the 19" extrusions, diagonal

1 on the basic frame on the depth 2 on the basic frame on the width 3 on the 19" extrusions on the width 4 on the 19" extrusions on the depth



- Finish
 - Zinc-passivated
- Supply schedule 4 multifunctional braces
- How supplied Flat-packed kit

MIR88003

WRack	DRack	d	Inst. position	for rack type	Order no.	UP
	600		1	Miracel	05.040.160.9 🔮	4 units
	800		1	Miracel	05.040.161.9 🔮	4 units
	900		1	Miracel	05.040.162.9 🔮	4 units
	1000		1	Miracel	05.040.163.9 🔮	4 units
	1100		1	Miracel	05.040.164.9 🔮	4 units
	1200		1	Miracel	05.040.165.9 🤞	4 units
600			2	Miracel/Smaract	05.040.173.9 🔮	4 units
700			2	Miracel		4 units
800			2	Miracel	05.040.174.9 🐇	4 units
			3	Miracel/Smaract/DPR	05.040.175.9 🔮	4 units
	600	365	4	Miracel/Smaract	05.040.168.9	4 units
	800	565	4	Miracel/Smaract	05.040.169.9	4 units
	600	440	4	Miracel/Smaract	05.040.170.9	4 units
	800	640	4	Miracel/Smaract	05.040.171.9	4 units
	900	740	4	Miracel/Smaract	05.040.172.9	4 units
	1000	740	4	Miracel/Smaract	05.040.172.9	4 units



MEC20045



MEC20074

How supplied

W D Order no. I IP 05.040.088.9 1 set

- Cascading
- For orderly cable management and cable clamping – Can be expanded
- Material/Finish Base cover: Sheet steel, powder-coated texture RAL 7035
 - Foam: Polyethylene, anthracite
- Supply schedule 2 end plates with foam 3 plates with foam on both sides Mounting material
- Flat-packed kit

strips

panels, etc.

Material/Finish

Supply schedule 1 assembly crossbar

How supplied In units

Note

Sheet steel 1.5 mm,

mounting material.

Assembly Crossbar

- For cable management with Velcro

cation installation units, mounting

powder-coated texture, RAL 7035

Please also order the appropriate

For side and cross installation

Universal mounting option for installation accessories, socket strips, telecommuni-



MEC20088



MEC20067

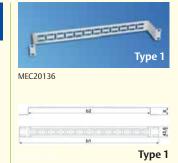
Cable Tray

- For orderly cable management in the Miracel rack
- Cable fixing possible using Velcro strips or cable ties
- Combination possible as L, U or T unit
- Material/Finish Sheet steel 1.5 mm, zinc passivated, powder-coated

Color

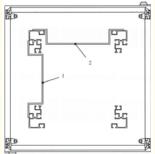
- .1: RAL 7035 light gray .8: RAL 7021 dark gray
- Dimensions L 150 x W 28 mm
- Supply schedule 1 cable tray Mounting material
- How supplied Flat-packed kit
- Note
- If required, please also order Velcro strip.

W	Н	D	U	Model	Order no.	UP
			41	For rack type Miracel	05.040.021.1 🧕	1 set
			46	For rack type Miracel	05.040.022.1 🚭	1 set
			41	For rack type Miracel	05.040.021.8 🧕	1 set
			46	For rack type Miracel	05.040.022.8 🧕	1 set



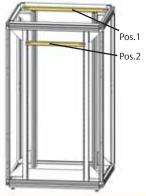






MIR00094

W/d H D	U	w1	w2	x	Туре	Model	Order no.	UP
19"	1	482	442.6	81.5	1	Pos. 2: Miracel/Smaract	05.040.018.1 🔮	1 unit
19"	1				2	Pos. 2: DoubleProRack	05.040.019.1	1 unit



MIR88002

MIR00096

W	Н	D	L	Model	Order no.	UP
600			482.5	Pos. 1: Miracel/Smaract	05.040.080.0	1 unit
800			682.5	Pos. 1: Miracel	05.040.082.0	1 unit
19			508	Pos. 2: Miracel/Smaract/	01.110.719.9	🛃 1 unit
				DoubleProRack		

U

MEC00114

w н D **Cable Clamping Bar**

For clipping to the C-shaped runner

UP

10 units

Material Polyamide, black

Supply schedule 1 set of 10 cable clamping bars

- How supplied Flat-packed kit
- d Model Order no.



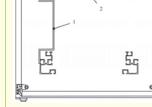
01.130.869.9

C-Extrusion Rail

- For cable clamping using U-clamps or cable clamping bars
- Cable clamping closer to access (type 1) Suitable for use in conjunction with top
- cover with cable entry

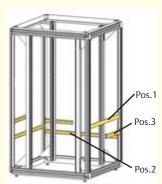
Material/Finish Sheet steel, 1.5 mm, zinc-passivated

- Supply schedule 1 C extrusion rail
 - Mounting material
- How supplied Flat-packed kit
- Note
- Please also order U-clamps, cable clamping bars or threaded plates.





MEC00113



WRack

800 2

600 2

1

1

1

1

1

3

Inst. position

MIR88004

WRack DRack

600

800

900

1000

1200

C-Extrusion Rail

- For cable clamping using U-clamps or cable clamping bars
 Space-saving installation between the extrusions of the basic rack
- Two-sided installation
- Material Sheet steel, 1.5 mm, zinc-passivated
- Finish Zinc-passivated
- Supply schedule 4 extrusion rails Mounting material
- How supplied Flat-packed kit

For rack type

Miracel

Miracel

Miracel

Miracel

Miracel

Miracel/Smaract

Miracel/Smaract

Miracel/Smaract

- Note
- Please also order U-clamps, cable clamping bars or threaded plates.

Order no.

05.040.180.9

05.040.195.9

05.040.193.9

05.040.181.9 🛃 4 units

05.040.182.9 🛃 4 units

05.040.183.9 🛃 4 units

05.040.185.9 🔮 4 units

05.040.194.9 🛃 4 units

I IP

4 units

4 units



MIR00096



ELM00086 WН

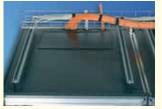
U-Clamp

- For strain relief and individual routing of cables and lines
- Clamping range, 8-64 mm
- Material Steel/plastic
- Supply schedule 25 U-clamps 25 clamping saddles
- How supplied Flat-packed kit

D	U	d	L	Clamping range	Order no.	UP
				8-12 mm	05.040.150.9 🧕	1 unit
				12-16 mm	05.040.151.9 🧕	1 unit
				16-22 mm	05.040.152.9 🧕	1 unit
				22-28 mm	05.040.154.9	1 unit
				34-40 mm	05.040.155.9 🧕	1 unit
				46-52 mm	05.040.157.9 🧕	1 unit
				58-64 mm	05.040.159.9 🧕	1 unit
					_	



MIR20198



MEC20034

Top-mounting for cable tray

- Fixing cable trays with C extrusion rails Any position possible
- Material/Finish

C extrusion rail: Sheet steel, zinc-passivated Mounting bracket: Sheet steel, powdered RAL 7021

- Supply schedule 2 C extrusion rails
 - 4 mounting bracket Mounting material
- How supplied Flat-packed kit
- Note
- Please also order U-clamps, cable clamping bars or threaded plates.

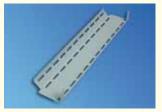
W	Н	DRack	Order no.	UP
		800	05.040.072.8	1 set
		900	05.040.073.8	1 set
		1000	05.040.074.8	1 set
		1200	05.040.076.8	1 set





MEC20069

W



MFC20049

19" Cable Tray

- For orderly cable management in front of the 19" front

Order no.

05.040.077.9 🛃 1 set

UP

- Mounting on front panels possible Cable fixing possible using Velcro strips

Material/Finish Sheet steel, 1.5 mm Powder-coated texture, RAL 7035

Supply schedule 1 cable tray

MEC20051







- For use in conjunction with C extrusion rails

M5 Threaded Plate

- Material/Finish Flat rolled steel, 4.0 mm, zinc-passivated
- Supply schedule 20 threaded plates
- How supplied Flat-packed kit



D

100 1

U

Model

How supplied

In units

racks

linked racks

Material/Finish Sheet steel, 1.5mm

Supply schedule

1 cable tray Mounting material

How supplied Flat-packed kit

Radial limit

Material/Finish

Supply schedule 1 radial limit Mounting material

How supplied Flat-packed kit

Various mounting options available: - on the basic rack for cable clamping

Sheet steel, 1.5mm, zinc-passivated

on the 19" extrusion for cable routing and diverting – For use in conjunction with C extrusion rails (also order threaded plates!)

Note

Model

Note Please also order front panel mounting material and Velcro strip.

Order no.

Cable tray between the

- Fixing possible using Velcro strips

Powder-coated texture, RAL 7035

For orderly cable management between

05.040.055.1 🧕 1 unit



MEC20132

UP



MEC20143

W	н	D	U	Model	Order no.	UP
85		32	1		05.040.091.1	1 set

CDuct, Side

panel, swivel

Material/Finish

Supply schedule 1 cable duct

How supplied Flat-packed kit

Sheet steel, 1.5mm

Mounting material

(optional)

For orderly cable management

For use in conjunction with the front

Cable rerouting with radial limiter, 1 U

Powder-coated texture, RAL 7035





MEC20151

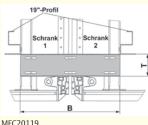
w	н	D	U	Model	Order no.	UP
100		130	41		05.040.023.1	1 set



MEC20042

W н

483



U

MEC201	1
W	

265

Н D

-	
(TE)	
' 	
1	

60

MEC20090



MEC20071

W	н	D	L	Order no. UP
290		87		05.040.090.0 1 set

Dimensions in mm:	H = Height D = Depth h = installation height	U = standard height unit 1 U = 44.45 mm UP = unit of packaging kg = weight
	d = useful depth L = length	🗲 = Express item
Conversion: 1 n	nm = 0.03937 inch	1 kg = 2.2046 pound

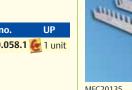
Radial Limit, 1 U

- For diverting the cables from the patch area vertically
- The cables can be fixed with Velcro strips
- Side use in conjunction with the cable duct is possible

Material/Finish

- Sheet steel, 1.5mm, powder-coated texture, RAL 7035
- Supply schedule 1 radial limit
- 1 Mounting panel
- Mounting material
- How supplied Flat-packed kit

	1
Order no. UP	
05.040.058.1 🤕 1 unit	













U

Model

For rack type Miracel

D

MEC20052

MEC20079

W

Excess Copper Cable Storage

- For storing excess copper cable lengths (or fiber optic cables)
 For orderly cable management in the
- Miracel rack
- Can be expanded
- Material/Finish Sheet steel, 1.5 mm, zinc-passivated

Order no.

Fiber Optic 19" Excess Cable Drawer, 1 U

- For storing excess fiber optic cable lengths

Cable fixing possible with Velcro strips

Please also order front panel mounting

Excess Fiber Optic Cable

For orderly fiber optic cable management

in the Miracel rack (from W 800 mm)

Cable routing head: Polyamide, black

- For storing excess cable lengths

Base cover: powder-coated texture, RAL 7035

material and Velcro strip.

Sheet steel, 1.5 mm Powder-coated texture, RAL 7035

05.040.044.0

UP

1 set

- Supply schedule 1 excess cable holder Mounting material
- How supplied Flat-packed kit

Pull-out

Material/Finish

Supply schedule 1 main unit 1 drawer

How supplied Flat-packed kit

Storage

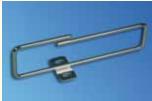
Material/Finish

Supply schedule 1 base cover 1 cable routing head Mounting material

How supplied

Flat-packed kit

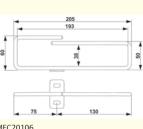
Note



MEC20038



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MEC20106

WRack	For rack type	Order no.	UP
From 800	Miracel	05.040.220.9	4 units

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MEC20099

MEC20047

W	Н	D	Model	Order no.	UP
483	44	350		05.040.047.1	1 set



MFC20044



MFC20146

W н D U Model Order no. UP 2 05.040.041.1 1 set

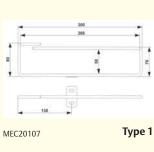
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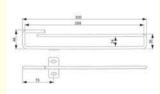
MEC20116

WRad From

From

600





Type 2

Universal Jumpering Bracket

- Can be used for extrusion spacing (from front), 123 mm and 73 mm
- For orderly cable management
- Open version, no threading
- Mounting on the external side of the 19" extrusion
- Any installation position selectable
- Material Round steel, d = 6 mm
- Finish
- Zinc-passivated
- Supply schedule 4 jumpering brackets
- How supplied Flat-packed kit
- Note Please also order the appropriate mounting material.

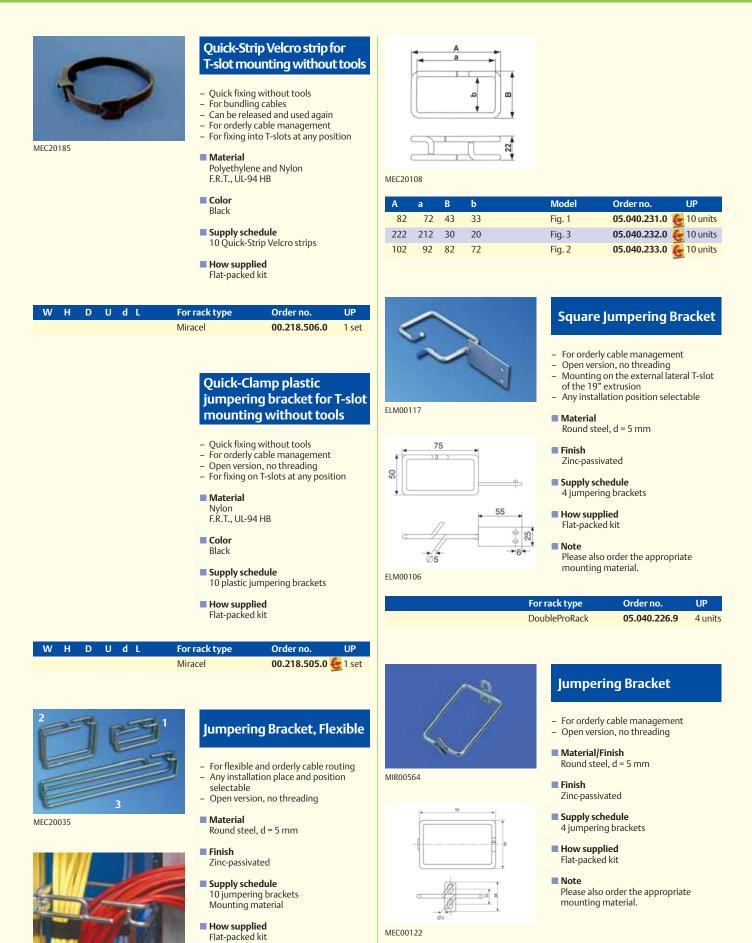
Square	Jumpering	Bracket

- For orderly cable management
- Open version, no threading
- Mounting on the external side of the 19" extrusion
- Any installation position selectable
- For large cable volumes

Material Round steel, d = 6 mm

- Finish
- Zinc-passivated
- Supply schedule 4 square jumpering brackets
- How supplied Flat-packed kit
- Note
 - Please also order the appropriate mounting material.

Туре	For rack type	Order no.	UP
Type 1	Miracel		
Type 2	Miracel		
Type 2	Smaract	05.040.222.9	🛃 4 units
	Type 1 Type 2	Type 1MiracelType 2Miracel	Type 1 Miracel 05.040.221.9 Type 2 Miracel 05.040.222.9



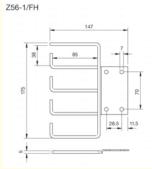
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Model

Order



ELM00028



ELM00029 W

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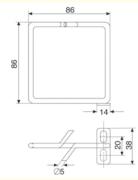
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MIR00183

FI M00057

WRack

From 800



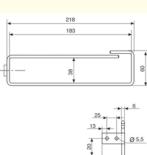
Jumper Tiebar

- Ideal for vertical routing and cable strain relief
- Open version, no threading Mounting on the external lateral T-slot
- of the 19" extrusion Any installation position selectable From rack width 600 mm
- Material/Finish
 - Round steel, d = 5 mm, zinc-passivated
- Supply schedule 2 jumper tiebars
- How supplied Flat-packed kit
- Note
 - Please also order the appropriate mounting material.



MIR00566

MFC00123



Jumpering Bracket, Vertical

- For orderly cable management
 Open version, no threading
 Mounting on the external side of the
- 19" extrusion and on the side on the rack T-slot
- Any installation position selectable - For large cable volumes
- Material

Round steel, d = 6 mm

- Finish
 - Zinc-passivated
- Supply schedule 4 vertical jumpering brackets
- How supplied Flat-packed kit

Note

Please also order the appropriate mounting material.

Model	
218x60	

Order no. UP 05.040.223.9 🥳 4 units

S Y

Jumpering Bracket, Square

Order no.

01.117.033.7 🛃 2 units

- For orderly cable management
- _
- of the 19" extrusion
- 4 vertical jumpering brackets



Stone gray, RAL 7030

1 jumper cable duct with cover Mounting material

- Ideal for orderly and covered cable

W	Н	D	U	d	L	Model	Order no.	UP
					2000		01.117.098.3	1 units

Order no.	UP
05.040.224.9 🧕	4 units



Model

86x86



LIG00068

ELM00052



Fiber Optic Cable Router

- For safe and orderly cable management of fiber optic cables
- With step-index extrusion of the slots to provide strain relief of the fiber optic , cables
- Mounting on the external side of the 19" extrusion
- Material PA UL (94-VO)

Supply schedule 1 pair of fiber optic cable routers Mounting material

ELM00004

- Zinc-passivated, Zn 10c, white
- Flat-packed kit

Open version, no threading Mounting on the external lateral T-slot

Any installation position selectable From rack width 800 mm

Finish

Mode

- Supply schedule
- How supplied

UP



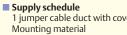


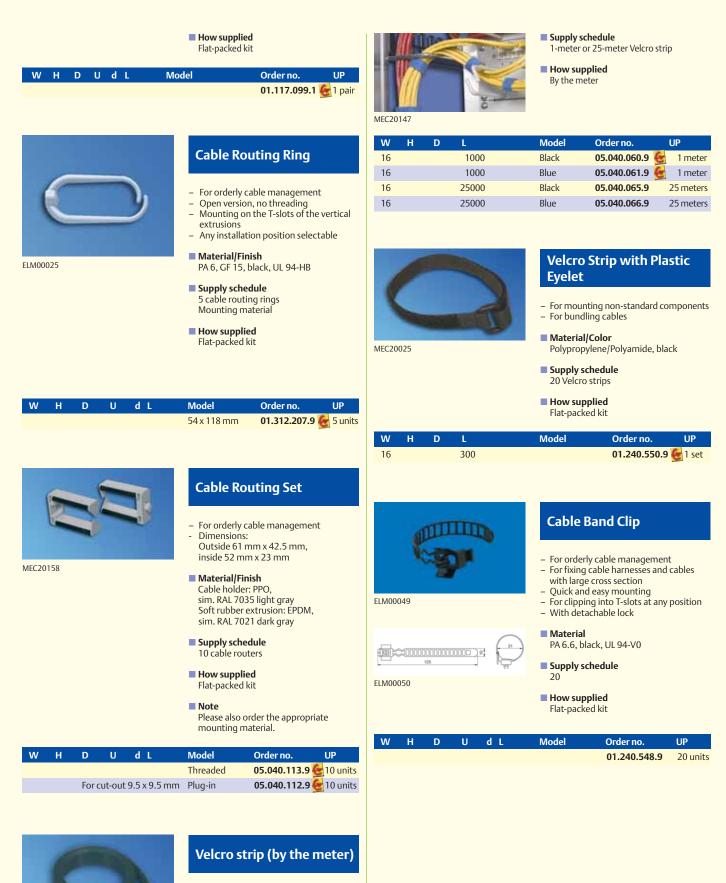


management of jumper cables Material Hard PVC

Cable Duct

Finish





- For stress-free mounting and bundling of copper and fiber optic cables
 - Velcro strip can be cut to any length required
 - Material/Color Black: One Wrap Fastener F.R.T., UL 94-V2 Blue: One Wrap Fastener

MEC20048

 Dimensions in mm:
 W = Width
 U = standard height unit

 H = Height
 1 U = 44.45 mm

 D = Depth
 UP = unit of packaging

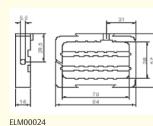
 h = installation height
 kg = weight

 d = useful depth
 $\omega = k$ = kopes item

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



MEC20017



()IEEEEE

Cable Clamping Frame

- For orderly cable management
 Open version, no threading
 Cross-section for cable routing, variable
- with removable routing ribs Can be expanded by adding on further
- cable clamping frames Optional mounting: lengthwise or across the width
- Material Polypropylene, black
- Supply schedule 1 cable clamping frame Mounting material
- How supplied Flat-packed kit

w	Н	D	U	d L	Model	Order no.	UP
						01 112 152 0	4 14

01.113.153.9 1 units



482.5

D

MIR00182

W н

Cable Clamping, Swing Frame

- Absolutely recommended when using swing frame
 For cable strain relief
- For relief on plug-type connections Prevents damage to the cable braided shielding

Order no.

01.113.203.1

I IP

1 set

_

218

d L

Supply schedule 2 mounting bracket 1 extrusion rail Mounting material

(Instance)	 For easy me quick conn from shelf e Guarantees
MEC20154	 Guarantees manageme Minimum s the pushed
390	Material/Fi Sheet steel
368 MEC88005	Supply sch 1 cable can Mounting r
	How suppl

Cable Cantilever

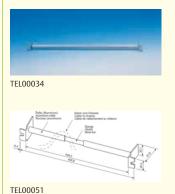
- nounting in rack/on the shelf; necting to and disconnecting or rack with a spring clip
- es defined and kink-free cable ent
- space requirement behind d-in shelves, 40 mm
- inish
- l, 1.5 mm, zinc-passivated
- edule tilever material
- lied Flat-packed kit

W	Н	D	U	d WxL	Туре	Order no.	UP
					2-piece	05.040.096.0	🛃 1 unit



CUD00025

Supply schedule -1 earthing bracket Mounting material CUD00024 w н Model Order no. D U d UP 01.117.035.7 1 units



Cable Roller

Model

- For 19" racks and enclosuresReduces the cable load on slot-in
- Orderly cabling _
- Prevents cable-sagging

Material

Sheet steel, 1.5 mm

Supply schedule 1 cable roller

0051	

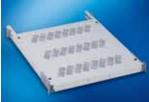
W	н	D	U	d L	Model	Order no.	UP
						05.043.327.9	1 units

Cable Clamping Bracket / **Earthing Bracket**

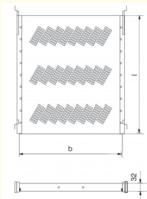
- For 19" cable routing panel, 2 HU For strain relief of cables and plug-type connections with cable ties
- Material Sheet steel, 1.5 mm

Finish

Zinc-passivated, Zn 10c, white



MEC00451



MEC20018

19" shelf, fixed

- Integrated fixing holes front and rear for handle or hinged cable routing
 With perforation to optimize air supply

Material/Finish

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

Color

Final digit of order number .1: RAL 7035 light gray Final digit of order number .8: RAL 7021 dark gray

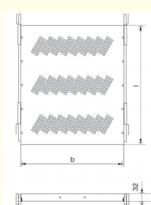
Load rating 500 N static per item

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

How supplied Flat-packed kit

应用款款款款款的 有卫星地过程有卫 **建设建设建设建设**

MEC00452



MEC20019

19" shelf, part pull-out

- Integrated fixing holes front and rear for handle or hinged cable routing
 With perforation to optimize air supply
- Locking in pulled-out position (friction lock); easy conversion from form lock to friction lock with stop spring
- Quick separator for removing and dis-connecting the shelf without tools

Material/Finish

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

Color

Final digit of order number .1: RAL 7035 light gray Final digit of order number .8: RAL 7021 dark gray

- Load rating
- 500 N static per item

Supply schedule 1 pair of telescopic slides

- shelf board
 - 1 extension board (from L = 600)

01.102.010.1 🧶 1 unit

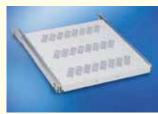
Mounting material

How supplied Flat-packed kit

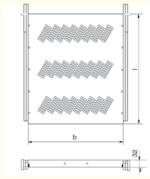
WRack HRack DRack	d wxl	For rack type	Order no.	UP
600	365 430×300	Miracel/Smaract LAN	01.102.010.1	🛃 1 unit
600	440 430×300	Miracel/Smaract 19"	01.102.010.1	🛃 1 unit
800	565 430 x 500	Miracel/Smaract LAN	01.102.011.1	🛃 1 unit
800	565 430×500	Miracel/Smaract LAN	01.102.011.8	1 unit
800	640 430×500	Miracel/Smaract 19"	01.102.011.1	😉 1 unit
800	640 430×500	Miracel/Smaract 19"	01.102.011.8	1 unit
900	665 430 x 500	Miracel/Smaract LAN	01.102.011.1	🛃 1 unit
900	665 430×500	Miracel/Smaract LAN	01.102.011.8	1 unit
900	740 430×600	Miracel/Smaract 19" server	01.102.012.1	😉 1 unit
900	740 430×600	Miracel/Smaract 19" server	01.102.012.8	1 unit
1000	740 430×600	Miracel 19" server	01.102.012.1	🙋 1 unit
1000	740 430×600	Miracel 19" server	01.102.012.8	1 unit
600 600	530 515×500	Miracel LW 535	01.102.170.1	1 unit
700 600	530 615×500	Miracel LW 635	01.102.171.1	1 unit
800 600	530 715×500	Miracel LW 735	01.102.172.1	1 unit
600 800	730 515×600	Miracel LW 535	01.102.178.1	1 unit
900				
700 800	730 615×600	Miracel LW 635	01.102.179.1	1 unit
900				
800 800	730 715×600	Miracel LW 735	01.102.180.1	1 unit
900				
600	435 430 x 300	DoubleProRack with door	01.102.010.1	🙋 1 unit
800	635 430 x 500	DoubleProRack with door	01.102.011.1	😉 1 unit
800	635 430 x 500	DoubleProRack with door	01.102.011.8	1 unit
500	460 430 x 300	DoubleProRack no door	01.102.010.1	😉 1 unit
600	560 430 x 500	DoubleProRack no door	01.102.011.1	😉 1 unit
600	560 430 x 500	DoubleProRack no door	01.102.011.8	1 unit
700	660 430 x 500	DoubleProRack no door	01.102.011.1	😉 1 unit
700	660 430 x 500	DoubleProRack no door	01.102.011.8	1 unit

600 385 430 x300 ConAct

WRack HRad	k D Rack	d	wxl	For rack type	Order no.		UP
	600	365	430 x 300	Miracel/Smaract LAN	01.102.001.1	e	1 uni
	600	440	430x300	Miracel/Smaract 19"	01.102.002.1	e	1 uni
	800	565	430 x 500	Miracel/Smaract LAN	01.102.003.1	e	1 uni
	800	565	430 x 500	Miracel/Smaract LAN	01.102.003.8	_	1 uni
	800	640	430×600	Miracel/Smaract 19"	01.102.004.1	e	1 uni
	800	640	430×600	Miracel/Smaract 19"	01.102.004.8		1 un
	900	665	430×600	Miracel/Smaract LAN	01.102.004.1	e	1 un
	900	665	430x600	Miracel/Smaract LAN	01.102.004.8		1 un
	900	740	430 X 600	Miracel/Smaract 19" server	01.102.005.1	6	1 un
	900	740	430 X 600	Miracel/Smaract 19" server	01.102.005.8	6	1 un
	1000	740	430×600	Miracel 19" server	01.102.005.1	6	1 un
	1000	740	430x600	Miracel 19" server	01.102.005.8	6	1 un
600	600	530	515x500	Miracel LW 535	01.102.200.1		1 un
700	600	530	615x500	Miracel LW 635	01.102.201.1		1 un
800	600	530	715x500	Miracel LW 735	01.102.202.1		1 ur
600	800	730	515x700	Miracel LW 535	01.102.208.1		1 un
700	800	730	615x700	Miracel LW 635	01.102.209.1		1 ur
800	800	730	715x700	Miracel LW 735	01.102.210.1		1 un
600	900	830	515x800	Miracel LW 535	01.102.212.1		1 un
800	900	830	715x800	Miracel LW 735	01.102.214.1		1 un
600	600	535	515x500	Smaract LW 535	01.102.252.1		1 ur
600	800	735	515x700	Smaract LW 535	01.102.254.1		1 ur
600	900	835	515x800	Smaract LW 535	01.102.255.1		1 ur
	600	435	430x300	DoubleProRack with door	01.102.002.1	6	1 ur
			430×600	DoubleProRack with door	01.102.004.1	6	1 un
			430×600	DoubleProRack with door	01.102.004.8	-	1 un
	000	555					
	500	460	430 x 300	DoubleProRack no door	01.102.002.1	G	1 un
			430x500	DoubleProRack no door	01.102.003.1	Ğ	1 un
			430×500	DoubleProRack no door	01.102.003.8	-	1 un
			430×600	DoubleProRack no door	01.102.003.0	G	1 un
			430 x 600	DoubleProRack no door	01.102.004.1	6	1 un
	700	000	-JUX 000	DOUDICI TORACK TO GOOI	01.102.004.0		run
	500	785	430×200	ConAct	01.102.000.1		1 un
			430 x 200	ConAct	01.102.000.1	6	1 un
	000	202	450 X 500	CONACL	01.102.001.1	C	TUN



MEC00462

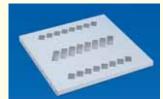


MEC20xxx

19" Shelf Full pull-out

- Integrated fixing holes front and rear for handle or hinged cable routing
- With perforation to optimize air supply Locking in pulled-out position (friction
- lock); easy conversion with stop spring Quick separator for removing and disconnecting the shelf without tools
- Material/Finish
- Sheet steel 1.0 mm, zinc-passivated, powder-coated texture
- Color
 - RAL 7035 light gray
- 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

WRack	HRack	DRack	U	d	wxl	For rack type	Order no.	UP
		600	365		430 x 300	Miracel/Smaract LAN	01.102.160.1	🔮 1 unit
		600	440		430 x 300	Miracel/Smaract 19"	01.102.160.1	😉 1 unit
		800	565		430 x 500	Miracel/Smaract LAN	01.102.161.1	🛃 1 unit
		800	640		430 x 500	Miracel/Smaract 19"	01.102.161.1	🛃 1 unit
		900	665		430 x 500	Miracel/Smaract LAN	01.102.161.1	😉 1 unit
		900	740		430×600	Miracel/Smaract	01.102.162.1	😉 1 unit
						19" Server		
		1000	740		430 x 600	Miracel 19" server	01.102.162.1	🛃 1 unit



MEC00120



19" Heavy-Duty Shelf **Fixed**

- Surface area with perforation
- Application as server or battery bottom cover
- Material/Finish Sheet steel 1.5 mm, zinc-passivated, powder-coated texture
- Color
- Final digit of order number .1: RAL 7035 light gray Final digit of order number .8: RAL 7021 dark gray
- Load rating 1000 N static for CW installation 1500 N static for 19" installation
- Supply schedule 1 shelf, fixed, screwable 2 mounting braces Mounting material
- How supplied Flat-packed kit

WRack	HRack	DRack	U	d	wxl	For rack type	Order no.	UP
		800		565	467 x 460	Miracel/Smaract LAN	01.131.473.1	🛃 1 unit
		800		565	467 x 460	Miracel/Smaract LAN	01.131.473.8	1 unit
		800		640	467 x 460	Miracel/Smaract 19"	01.131.475.1	🛃 1 unit
		900		665	467 x 560	Miracel/Smaract LAN	01.131.476.1	1 unit
		900		740	467 x 560	Miracel/Smaract	01.131.474.1	🛃 1 unit
						19" Server		
		900		740	467 x 560	Miracel/Smaract	01.131.474.8	1 unit
						19" Server		
		1000		740	467 x 560	Miracel 19" server	01.131.474.1	🛃 1 unit
		1000		740	467 x 560	Miracel 19" server	01.131.474.8	1 unit
600		800		730	534x536	Miracel LW 535	01.131.477.1	1 unit
800		800		730	734x536	Miracel LW 735	01.131.479.1	1 unit
600		900		830	534x536	Miracel LW 535	01.131.481.1	1 unit
800		900		830	734x536	Miracel LW 735	01.131.483.1	1 unit

19" Heavy-Duty Shelf

- With perforation to optimize air supply - Locking in pushed-in and fully pulled out

Easy mounting with patented quick

Application as server or battery bottom

Sheet steel, 1.5 mm, powder-coated

Final digit of order number .1: RAL 7035 light gray Final digit of order number .8:

RAL 7021 dark gray

Supply schedule 1 pair of telescopic slides

Full pull-out

mounting system

Material/Finish

position

cover

texture Color

Load rating 1200 N static

1 shelf board

Mounting material



MEC20022





How supplied Flat-packed kit WRack HRack DRack U d wxl For rack type Order no. UP 800 565 412 x 560 Miracel/Smaract LAN 01.102.031.1 6 1 unit 800 565 412x560 Miracel/SmaractLAN 01.102.031.8 1 unit 640 412 x 560 Miracel/Smaract 19" 01.102.031.1 61 unit 800 800 640 412 x 560 Miracel/Smaract 19" 01.102.031.8 1 unit 665 412 x 660 Miracel/Smaract LAN 01.102.032.1 61 unit 900 665 412 x 660 Miracel/Smaract LAN 01.102.032.8 900 1 unit 740 412 x 660 Miracel/Smaract 01.102.032.1 🛃 1 unit 900 19" Server 900 740 412x660 Miracel/Smaract 01.102.032.8 1 unit 19" Server 1000 740 412x660 Miracel 19" server 01.102.032.1 😔 1 unit 1000 740 412x660 Miracel 19" server 01.102.032.8 1 unit 600 800 730 478 x 560 Miracel LW 535 01.102.034.1 1 unit 800 800 730 678 x 560 Miracel I W 735 01.102.037.1 1 unit 600 900 830 478 x 660 Miracel LW 535 01.102.035.1 1 unit 800 900 830 678 x 660 Miracel LW 735 01.102.038.1 1 unit 01.102.034.1 735 478 x 560 Smaract LW 535 600 800 1 unit 600 900 835 478 x 660 Smaract LW 535 01.102.035.1 1 unit

Cable Cantilever

Swing-out from the rear, therefore free access to the rear side (only 3-piece)
For easy mounting in rack/on the shelf;

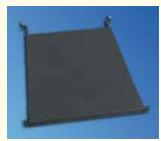
from shelf or rack with a spring clip

quick connecting to and disconnecting

Guarantees defined and kink-free cable

Minimum space requirement behind the pushed-in shelves, 40 mm

Sheet steel, 1.5 mm, zinc-passivated



SUN20007

19" Quick-Fix Shelf Assembly without tools

- Quick and easy mounting without tools by hanging in 19" cut-outs Quick and easy fixing (one click) and removing (quarter turn) without tools _
- Suitable for all racks and enclosures with 19" mounting hole extrusions (9.0 x 9.0 square holes)
- Depth-variable for use with different slot-in depths and special dimensions With perforation to optimize air supply
- Material Sheet steel, 1.0 mm

Finish

- Final digit of order number .1: Powder-coated texture, RAL 7035, light gray
- Final digit of order number .8: Powder-coated texture, RAL 7021 dark gray
- **Load rating** 700 N static with even load distribution
- Supply schedule

19" Quick-Fix Shelf Mounting Material

- How supplied Flat-packed kit
- Note

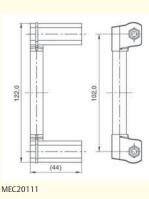
Cannot be used for 19" t-slot extrusions!

W	Н	D	U	d	wxl	Order no.	UP
		600		365 - 500	430 x 300	01.102.071.X	🛃 1 unit
		800		565 - 740	430 x 500	01.102.072.X	🛃 1 unit



MEC20138

W н



U

D

d wxl

Handle

- Suitable for shelves and heavy-duty shelves - With internal thread, M5
- Material Die-cast aluminum consoles
- Handle extrusions of extruded aluminum Cap made of ABS UL 94 HB

Order no.

00.050.503.1

UP

1 set

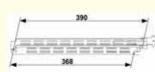
Finish:

For rack type

- Handle, powder-coated, gray-blue, RAL 5008/Cap, light gray, RAL7035
- Supply schedule 2 handles



MEC20154







Mounting material

How supplied Flat-packed kit

management

Material/Finish

W	Н	D	U	d wxl	Туре	Order no.	UP
					2-piece	05.040.096.0	General 1 unit

Dimensions in mm:	W = Width	U = standard height unit
	H = Height	1 U = 44.45 mm
	D = Depth	UP = unit of packaging
	h = installation height	kg = weight
	d = useful depth	
	L = length	🛃 = Express item
(CW = Clear width	
Conversion: 1 n	nm = 0.03937 inch 1	l kg = 2.2046 pound

19" Shelf, 2 U

 For installation in racks with fixed 19" installation on the front
 Quick and easy mounting on 19" extrusions
 Also for swing frame in the 19" rack and

Powder-coated texture, RAL 7035

Fixed

19" enclosure

Finish/Color

light gray

Load rating

200 N static

Supply schedule 1 shelf, fixed Mounting material

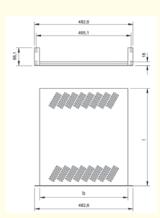
How supplied

Flat-packed kit

Sheet steel, 1.5 mm



MIR00373

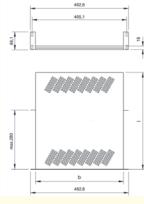


MIR00375

W	Н	D	wxl	For rack type	Order no.	UP
482.6	88.1	600/800/900/1000	0442 x 280	Miracel/Smaract	01.113.736.1 🦉	1 unit
482.6	88.1	600/800/900/1000	0442 x 380	Miracel/Smaract	01.113.737.1 🧕	1 unit
482.6	88.1	500/600/800	442 x 280	DoubleProRack	01.113.736.1 🧕	1 unit
482.6	88.1	500/600/800	442 x 380	DoubleProRack	01.113.737.1 🦉	1 unit
482.6	88.1	400/500/600	442 x 280	ConAct	01.113.736.1 🖉	1 unit
482.6	88.1	500/600	442 x 380	ConAct	01.113.737.1 🧕	1 unit



MIR00102



MIR00103

19" Shelf, 2 U
Adjustable

- For installation in racks with adjustable
 19" installation on the front
 Quick and easy mounting on 19" extru-
- sions – Also for swing frame in the 19" rack and
- 19" enclosure Adjustable in increments of 25 mm in
- the depth
- Material/Finish Sheet steel 1.5 mm, powder-coated Texture
- Color RAL 7035 light gray
- Load rating 200 N static
- How supplied Flat-packed kit

w	Н	D	wxl	For rack type	Order no.	UP
482.6	5 88.1	600/800/900/1000	442 x 480	Miracel/Smaract	01.113.411.1	1 unit
482.6	5 88.1	500/600/800	442 x 280	DoubleProRack	01.113.409.1	1 unit
482.6	5 88.1	500/600/800	442 x 380	DoubleProRack	01.113.410.1	1 unit
482.6	5 88.1	600/800	442 x 480	DoubleProRack	01.113.411.1	1 unit
482.6	5 88.1	400/500/600	442 x 280	ConAct	01.113.409.1	1 unit
482.6	5 88.1	500/600	442 x 380	ConAct	01.113.410.1	1 unit
482.6	5 88.1	600	442 x 480	ConAct	01.113.411.1	1 unit



482.6

465,1

440

385

431

SCH00054

19" Drawer Installation on the front

- For installation on the front
- 19" extrusions
- For storing service documents
 Quick and easy mounting

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

Color

5 2 2

355

Final digit of order number .1: RAL 7035 light gray Final digit of order number .8: RAL 7021 dark gray

- Load rating 150 N static
- Supply schedule

1 19" drawer with lock, including key 1 pair of telescopic slides Mounting material

How supplied Preassembled

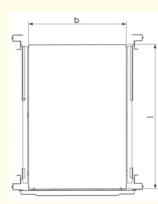
For rack type w D Order no. UP н U 01.113.926.1 🚭 1 unit 482.6 43.6 600-1000 Miracel/Smaract/ 1 DoubleProRack/ConAct 482.6 88.1 600-1000 Miracel/Smaract/ 01.113.927.1 🔮 1 unit 2 DoubleProRack/ConAct Miracel/Smaract/ 01.113.927.8 482.6 88.1 600-1000 2 1 unit DoubleProRack/ConAct 482.6 132.5 600-1000 01.113.928.1 🙋 1 unit Miracel/Smaract/ 3 DoubleProRack/ConAct

Dimensions in mm: W = Width	U	 standard height unit
H = Height		1 U = 44.45 mm
D = Depth	UP	 unit of packaging
h = installation height	: kg	= weight
d = useful depth	WxL	 Surface area
L = length	_	
CW = Clear width	60	 Express item
	-	
Conversion: 1 mm = 0.03937 inch	1 kg	= 2.2046 pound

W	Н	D	wxl	For rack type	Order no.	UP
482.6	88.1	600/800/900/1000	442 x 280	Miracel/Smaract	01.113.409.1	1 unit
482.6	88.1	600/800/900/1000	442 x 380	Miracel/Smaract	01.113.410.1	1 unit



MEC00118

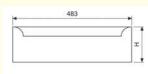


MEC20118

W	Н	DRack	U	d	wxl	For rack type	Order no.	_	UP
482.6	43.6	600	1	365	403x400	Miracel/Smaract LAN	02.045.149.1	e	1 unit
482.6	43.6	600	1	440	403 x 400	Miracel/Smaract 19"	02.045.149.1	e	1 unit
482.6	43.6	800	1	565	403x400	Miracel/Smaract LAN	02.045.149.1	e	1 unit
482.6	43.6	800	1	640	403 x 600	Miracel/Smaract 19"	02.045.147.1	e	1 unit
482.6	43.6	900	1	665	403 x 600	Miracel/Smaract LAN	02.045.147.1	6	1 unit
482.6	43.6	900	1	740	403 x 600	Miracel/	02.045.147.1	e	1 unit
						Smaract 19" Server			
482.6	43.6	1000	1	740	403 x 600	Miracel 19" Server	02.045.147.1	e	1 unit
482.6	43.6	600	1	435	403 x 400	DoubleProRack	02.045.149.1	e	1 unit
						With door			
482.6	43.6	800	1	635	403 x 600	DoubleProRack	02.045.147.1	e	1 unit
						With door			



SCH00057





9"	Shelf,	1	U
hill	-out		

Р

- With handleCan also be used as writing board
- Material/Finish Shelf, sheet steel, 1.0 mm Telescopic slide, cold rolled steel
- Finish/Color Powder-coated texture RAL 7035 light gray
- Load rating 200 N static
- Supply schedule 1 shelf 1 pair of telescopic slides Mounting material
- How supplied Preassembled

		4			
19" Drawer with Lock		4			
Mounting on 19"					
installation, front and rear		4			
 For mounting in racks with fixed 					
for mounting influence with fixed					

- 19"installation on the front and rear Full pull-out
 With lock

Material/Finish

- Drawer, sheet steel 1.0 mm, powdercoated texture Telescopic slides, cold rolled steel, sendzimir zinc-coated
- Color
- Drawer, RAL7035 light-gray
- Load rating
- 1 U 200 N static 2 U 400 N static 3 U 400 N static 4 U - 400 N static

Supply schedule 1 19" drawer with lock, including key 1 pair of telescopic slides Mounting material

How supplied Preassembled

W	Н	D	U	d	L	For rack type	Order no.	UP
482.6	43.6	600	1	365	400	Miracel/Smaract LAN	02.045.151.1	1 un
482.6	43.6	600	1	440	400	Miracel/Smaract 19"	02.045.151.1	1 un
482.6	87.1	600	2	440	400	Miracel/Smaract 19"	02.045.152.1	🛃 1 un
482.6		600	2	440	400	Miracel/Smaract 19"	02.045.153.1	1 un
482.6	176.0	600	4	440	400	Miracel/Smaract 19"	02.045.154.1	🛃 1 un
482.6	43.6	800	1	565	400	Miracel/Smaract LAN	02.045.151.1	1 un
482.6	87.1	800	2	565	400	Miracel/Smaract LAN	02.045.152.1	🥑 1 un
482.6	131.5	800	3	565	400	Miracel/Smaract LAN	02.045.153.1	1 un
482.6	176.0	800	4	565	400	Miracel/Smaract LAN	02.045.154.1	🥑 1 un
482.6	43.6	800	1	640	600	Miracel/Smaract 19"	02.045.161.1	1 un
402.0	45.0	800		040	000	Will deel St lid det 19	02.045.101.1	i ui
482.6	43.6	900	1	665	600	Miracel/Smaract LAN	02.045.161.1	1 un
482.6	87.1	900	2	665	600	Miracel/Smaract LAN	02.045.162.1	🥑 1 un
482.6	131.5	900	3	665	600	Miracel/Smaract LAN	02.045.163.1	1 un
482.6	176.0	900	4	665	600	Miracel/Smaract LAN	02.045.164.1	🥑 1 un
482.6	43.6	900	1	740	600	Miracel/Smaract 19" serve	02 045 161 1	1 ur
482.6	87.1	900	2	740	600	,		-
						Miracel/Smaract 19" serve		-
482.6	131.5	900	3	740	600	Miracel/Smaract 19" serve		1 ur
482.6	176.0	900	4	740	600	Miracel/Smaract 19" serve	r02.045.164.1	🥑 1 un
482.6	43.6	1000	1	740	600	Miracel/Smaract 19" serve	r 02.045.161.1	1 ur
482.6	87.1	1000	2	740	600	Miracel/Smaract 19" serve	r02.045.162.1	🥑 1 un
482.6	131.5	1000	3	740	600	Miracel/Smaract 19" serve	02.045.163.1	1 ur
482.6	176.0	1000	4	740	600	Miracel/Smaract 19" serve		🚱 1 un
102.0	170.0	1000		7.10	000	Windeer prindrater 15 Serve		
402 C	42 C	C 00	1	425	400	Davidada Dava Davalari Adalari a	02 045 151 1	1
482.6	43.6	600	1	435	400	DoubleProRack with door		1 un
482.6	87.1	600	2	435	400	DoubleProRack with door		🥑 1 un
482.6	131.5	600	3	435	400	DoubleProRack with door	02.045.153.1	1 un
482.6	176.0	600	4	435	400	DoubleProRack with door	02.045.154.1	🥑 1 un
482.6	43.6	800	1	635	600	DoubleProRack with door	02.045.161.1	1 ur
482.6	87.1	800	2	635	600	DoubleProRack with door	02.045.162.1	候 1 un
482.6	131.5	800	3	635	600	DoubleProRack with door		1 un
	176.0		3 4			DoubleProRack with door		-
482.6	170.0	800	4	635	600	Doubleriokack wiui door	02.043.104.1	🥑 1 un
10-								
482.6	43.6	500	1	460	400	DoubleProRack 19" no doo	r 02.045.151.1	1 ur
482.6	87.1	500	2	460	400	DoubleProRack 19" no doo	r02.045.152.1	🥑 1 ur
482.6	131.5	500	3	460	400	DoubleProRack 19" no doo	r02.045.153.1	1 ur
482.6	176.0	500	4	460	400	DoubleProRack 19" no doo	02.045.154.1	🙋 1 ur
482.6	43.6	600	1	560	400	DoubleProRack 19" no doo	02 045 151 1	1 un
								-
482.6	87.1	600	2	560	400	DoubleProRack 19" no doo		🥑 1 un
482.6	131.5	600	3	560	400	DoubleProRack 19" no doo		1 un
482.6	176.0	600	4	560	400	DoubleProRack 19" no doo	02.045.154.1	🥑 1 un
482.6	43.6	700	1	660	600	DoubleProRack 19" no doo	r 02.045.161.1	1 un
482.6	87.1	700	2	660	600	DoubleProRack 19" no doo	r02.045.162.1	🛃 1 un
482.6	131.5	700	3	660	600	DoubleProRack 19" no doo		1 un
102.0			4	660	600	DoubleProRack 19" no doo		🧭 1 un
482.6	176.0	700						



SCH00053



SCH00062

Writing board For 19" drawer with lock

- For drawer depth 400 mm and 600 mm
- Material/Finish
- Sheet steel, 1.0 mm, powder-coated texture

19" Keyboard Drawer 1 U

For 19" keyboard

No telescopic slides locking

1 19" keyboard drawer, 1 U 1 pair of telescopic slides

Velcro strip for keyboard fixing Mounting material

Main unit, sheet steel, 1.0 mm

Front panel, sheet steel, 1.0 mm

Powder-coated texture, RAL 7035 light

With hand support

Material

Finish/Color

Supply schedule

How supplied Preassembled

gray

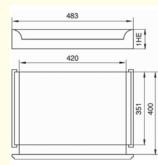
With cable strain relief

- Color RAL 7035 light gray
- Supply schedule 1 writing board Mounting material
- How supplied Flat-packed kit

W	Н	D	U	d L	For rack type	Order no.	UP
				400		02.045.202.9	1 unit
				600		02.045.203.9	1 unit



SCH00059



SCH00055

W	н	DRack	U	d L	For rack type	Order no.	UP
482.6	43.6	600	1	440	Miracel/Smaract 19"	02.011.101.1	🛃 1 unit
482.6	43.6	800	1	565	Miracel/Smaract LAN	02.011.101.1	🛃 1 unit
482.6	43.6	800	1	640	Miracel/Smaract 19"	02.011.101.1	🙋 1 unit
482.6	43.6	900	1	665	Miracel/Smaract LAN	02.011.101.1	👲 1 unit
482.6	43.6	900	1	740	Miracel/Smaract 19" Server	02.011.101.1	🙋 1 unit
482.6	43.6	1000	1	740	Miracel 19" Server	02.011.101.1	🥑 1 unit
482.6	43.6	600	1	435	DoubleProRack with door	02.011.101.1	🛃 1 unit
482.6	43.6	800	1	635	DoubleProRack with door	02.011.101.1	🧖 1 unit



19" Compact Keyboard IBM-compatible keyboard with trackball

Suitable for keyboard drawer 01.136.378.1 Flat keyboard with 84 keys and integrated trackball







MEC20167

MEC20167

- + 5 V/DC max, 18 mA Mains cable (1.6 m) with tapping for
 - two 6-pin mini DIN plugs (PS/2)
 - For Windows 98/ME/NT/2000/XP

Dimensions

Length x width x height 370 x 138.5 x 20 mm

W H S	U A1 A2 Pmax	Model	Order no.	UP
		German	06.002.048.3	1 unit







Chassis Rail Hang-on and screw-on

- For installation in 19" rack and enclosure
- Hang-on for quick and easy mounting _
- Can also be screwed for heavier load ratings Can be screwed from inside (use in rack suites)
- Height setting possible for various main section heights

Material/Finish Sheet steel, 2.0 mm Zinc-passivated, blue chrome-plated

- Load rating 1000 N max., with even distribution
- Supply schedule 2 slot-in rails

Mounting material

How supplied In pairs

Note

When selecting the slot-in rail, please note the chassis depth d of the rack or enclosure 4 19" extrusions are required for mounting

W	Н	DRack	U	d	L	For rack type	Order no.	UP
		600		365	336	Miracel/Smaract	01.103.051.0	1 pair
		600		440	411	Miracel/Smaract	01.103.052.0 🧕	1 pair
		800		565	536	Miracel/Smaract	01.103.053.0 🧕	1 pair
		800		640	611	Miracel/Smaract	01.103.054.0 🧕	1 pair
		900		665	636	Miracel/Smaract	01.103.055.0 🧕	1 pair
		From900		740	711	Miracel/Smaract/CoolTherm	01.103.056.0 🧕	1 pair



Aluminum Chassis Rail

- For installation in 19" rack and enclosure - Can be screwed from inside (use in rack
 - suites) Height setting possible for various main section heights
- Material/Finish
- Extruded aluminum, 1.4 mm, polished
- Load rating 700 N max., with even load distribution

Electrical data

- Power supply:

VHP00155

- - - Screw-on

separation)

turn)

Material

Finish

dark gray Supply schedule

Blanking Panel Mounting material How supplied

pre-mounted

Sheet steel, 1.0 mm

Quick-Fix 19" Blanking Panel

Assembly without tools

- For covering free 19" spaces (cold-hot

(one click) and disassembly (quarter

Suitable for 9.5 x 9.5 square holes

Final digit of order number .1: Powder-coated texture, RAL7035, light gray Final digit of order number .8: Powder-coated texture, RAL7021,

X (see ON for quantity) Quick-Fix 19"

In sets (see ON for quantity); fixing clips

Quick-Fix 19" blanking

Assembly without tools

- For orderly cable management in the

- Suitable for 9.5 x 9.5 square holes

Final digit of order number .1:

Powder-coated texture, RAL7035, light gray Final digit of order number .8: Powder-coated texture, RAL7021,

Quick and easy assembly without tools (one click) and disassembly (quarter

panel cable port

turn)

Material

Finish

Quick and easy assembly without tools

Supply schedule 2 slot-in rails Mounting material

- How supplied
 - In pairs
- Note

When selecting the slot-in rail, please note the chassis depth d of the rack or enclosure 4 19" extrusions are required for mounting.

WRack HRack DRack U	d L	For rack type	Order no.	UP
600	365 33	6 Miracel/Smaract	01.103.101.0 🧕	1 pair
600	440 41	1 Miracel/Smaract	01.103.102.0 🧕	1 pair
800	565 53	6 Miracel/Smaract	01.103.103.0 🧕	1 pair
800	640 61	1 Miracel/Smaract	01.103.104.0 🧕	1 pair
800	665 63	6 Miracel/Smaract	01.103.105.0 🧕	1 pair
From 900	740 71	1 Miracel/Smaract/CoolTherr	n 01.103.106.0 🧕	1 pair
500	285 25	4 ConAct	01.103.111.0 😔	1 pair
600	385 35	4 ConAct	01.103.112.0 🧕	1 pair
600	435 40	3 DoubleProRack with door	01.103.118.0	1 pair
800	635 60	3 DoubleProRack with door	01.103.119.0	1 pair
500	460 42	8 DoubleProRack no door	01.103.122.0	1 pair
600	560 52	8 DoubleProRack no door	01.103.123.0	1 pair
700	660 62	8 DoubleProRack no door	01.103.124.0	1 pair



MEC20163



MEC20166

Chassis runner, depth-variable Screw-on

- For installation in 19" rack and enclosure Depth-variable Can be screwed from inside (use in rack _
- _ suites)
- Height setting possible for various main section heights

Material/Finish Sheet steel, 1.25 mm

- Zinc-passivated, blue chrome-plated
- Load rating 200 N max., with even load distribution
- Supply schedule 2 basic rails 2 extension rails Mounting material
- How supplied In pairs
- Note
 - When selecting the slot-in rail, please note the chassis depth d of the rack or enclosure 4 19" extrusions are required for mounting

W	Н	D	U	d	For rack type	Order no.	UP
		600		365-440	Miracel/Smaract	01.103.091.0 🍯	1 pair
		800-1200		565-740	Miracel/Smaract	01.103.092.0 🤞	1 pair
		900-1200		740	CoolTherm	01.103.092.0	1 pair
		600		385	ConAct	01.103.091.0 🦉	1 pair
		500-600		435-460	DoubleProRack	01.103.091.0 🧃	1 pair
		600-800		560-660	DoubleProRack	01.103.092.0	1 pair



MEC20179



MEC20180



MFC20178

W H D	U	d L For rack type	Order no. UP
482.6 43.6	1	Powder-coated	01.103.301.X 🥌 6 units
482.6 88.1	2	Powder-coated	01.103.302.X 🧕 3 units
482.6 132.5	3	Powder-coated	01.103.303.X 🧕 2 unit
482.6 265.9	6	Powder-coated	01.103.306.X 🧕 1 unit
482.6 399.2	9	Powder-coated	01.103.309.X 🧕 2 unit
482.6 932.6	21	Powder-coated	01.103.321.X 🧕 1 unit



MEC20181



MEC20178

Supply schedule

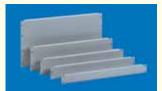
dark gray

Sheet steel, 1.0 mm

6 Quick-Fix 19" blanking panel cable ports Mounting material

How supplied In sets; fixing clips pre-mounted

W	Н	D	U	d L For rack type	Order no.	UP
482.	6 43.6		1	Powder-coated	01.103.331.X	6 units



CUD00005

 	r
	-

CUD00004

Quick-Fix 19" Blanking Panel Screw-on

For covering free 19" spaces (cold-hot separation)

Material

Sheet steel, 1.0 mm

Finish

- Final digit of order number .1: Powder-coated texture, RAL7035, light gray Final digit of order number .8: Powder-coated texture, RAL7021,
- dark gray

Supply schedule

- X (see ON for quantity) 19" Blanking Panel
- How supplied In sets (see ON for quantity)

Note Please also order front panel mounting material!

W H D	U	d L For rack type	Order no.	UP
482.6 43.6	1	Powder-coated	01.103.201.X 🔮 (6 units
482.6 88.1	2	Powder-coated	01.103.202.X 🔮	3 units
482.6 132.5	3	Powder-coated	01.103.203.X 🔮	2 unit
482.6 265.9	6	Powder-coated	01.103.206.X 👲	1 uni
482.6 399.2	9	Powder-coated	01.103.209.X 🤡	2 unit



LUF00217



MEC20110

19" Ventilation Front Panel

For additional ventilation of 19" racks and 19" pedestals in accordance with IEC 297

Material Aluminum

Finish

- Final digit of order number .1: Powder-coated, RAL 7035 light-gray Final digit of order number .6: colorless anodized E 6 / EV 1
- Supply schedule 1 ventilation front panel

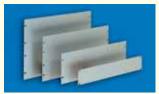
How supplied In units

Note

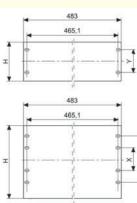
Please also order front panel mounting material.

H X	Y U	Model	Order no. UP
43.6	31.7 1	Powder-coated, RAL 7035	02.008.101.1 🛃 1 unit
43.6	31.7 1	Anodized	02.008.101.6 🧕 1 unit
132.5	57.1 3	Powder-coated, RAL 7035	02.008.103.1 🛃 1 unit
132.5	57.1 3	Anodized	02.008.103.6 🛃 1 unit





FR000005



MEC20109

Н	Х	Y	U	Model	Order no.	UP
43.6		31.7	1	Polished	02.008.021.0	🛃 1 unit
88.1		76.2	2	Polished	02.008.022.0	🛃 1 unit
132.5		57.1	3	Polished	02.008.023.0	🛃 1 unit
177.0		101.6	4	Polished	02.008.024.0	1 unit
221.4		146.0	5	Polished	02.008.025.0	1 unit
265.9	76.2	190.4	6	Polished	02.008.026.0	1 unit
43.6		31.7	1	Powder-coated, RAL 703	5 02.008.021.1	🛃 1 unit
88.1		76.2	2	Powder-coated, RAL 703	5 02.008.022.1	🦲 1 unit
132.5		57.1	3	Powder-coated, RAL 703	5 02.008.023.1	🦲 1 unit
177.0		101.6	4	Powder-coated, RAL 703	5 02.008.024.1	🦲 1 unit
221.4		146.0	5	Powder-coated, RAL 703	5 02.008.025.1	1 unit
265.9	76.2	190.4	6	Powder-coated, RAL 703	5 02.008.026.1	1 unit
43.6		31.7	1	Powder-coated, RAL 702	1 02.008.021.8	🛃 1 unit
88.1		76.2	2	Powder-coated, RAL 702		1 unit
132.5		57.1	3	Powder-coated, RAL 702	1 02.008.023.8	1 unit
43.6		31.7	1	Anodized	02.008.071.6	🛃 1 unit
88.1		76.2	2	Anodized	02.008.072.6	-
132.5		57.1	3	Anodized	02.008.073.6	-
177.0		101.6	4	Anodized	02.008.074.6	
221.4		146.0	5	Anodized	02.008.075.6	-
265.9	76.2	140.0	6	Anodized	02.008.075.6	-
205.9	70.2	190.4	6	Anodized	02.008.076.6	😇 i unit



FRO00007

19" Front Panel, Hinged

- With 10" adaptor and binge
- Aluminum 3 mm
- Anodized

Supply schedule

- 1 front panel, hinged 1 19" adapter
- 1 hinge

19" front panel Aluminum 3 mm

Material/Finish

Final digit of order number .0: AlMg3 - F23 polished with lamination sheet Final digit of order number .1: AlMg3 - F23, powder-coated, RAL 7035 light gray Final digit of order number .6: AlMg3 - F23 EB (anodize-enabled), anodized E6/EV1 Final digit of order number .8: AlMg3 - F23, powder-coated, RAL 7021 dark gray

Supply schedule 1 19" front panel

How supplied In units

Note

Please also order front panel mounting material.

-	VVIL	1119	auaptei	and ninge
	Mat	eria		

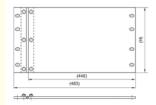












П

3

6

How supplied Flat-packed kit

Model

Anodized

Anodized

Note

Please also order front panel mounting material.



Document Holder

- Self-adhesive; use 6 mm bore holes with higher stresses
- For DIN A4 documents

Material High-impact PS

Color Gray	
Supply schedule 1 document holder	

L 264 236 30

D

w

Order no.	UP
05.016.045.0 🔮	1 unit



LUF88006

FR000006

н

D

w

LUF00093

19" Front Ventilation Panel

Order no.

01.110.780.6

01.110.781.6

UP

1 unit

1 unit

- For additional ventilation of 19" racks and 19" pedestals in acc. with IEC 297

Material/Color

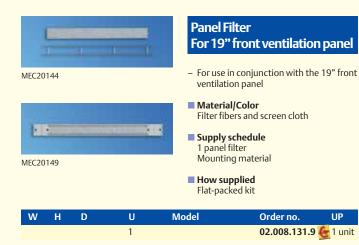
Final digit of order number .1: ABS (UL 94 V0), light gray RAL 7035 Final digit of order number .9: ABS (UL 94 V0), dark gray RAL 9011

- Supply schedule 1 front ventilation panel 2 connection holders
- How supplied Flat-packed kit

Note

Please also order front panel mounting material.

W	Н	D	U	Model	Order no. UP
483	43.6		1		02.008.111.1 1 unit
483	43.6		1		02.008.111.9 🧕 1 unit



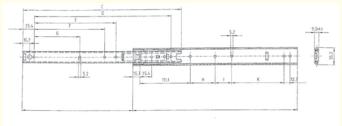
= Width	standard height unit
	1 U = 44.45 mm
	unit of packaging
= installation height kg =	weight
	Surface area
= Clear width 🛛 💽 =	Express item
= 0.03937 inch 1 kg =	2.2046 pound
	= Height = Depth UP = = installation height kg = = useful depth WxL = = length = Clear width

Ball Bearing Telescopic Slide, BP-400-LR

460 356 245.5 354 304.8 177.8 101.6 88.9 111.1 05.043.614.7 1 pa 400 406 296.5 404 355.6 228.6 101.6 139.7 111.1 05.043.616.7 1 pa 490 457 330.5 455 406.4 203.2 101.6 101.6 88.9 111.1 05.043.618.7 1 pa 440 508 381.5 505 457.2 228.6 101.6 127 114.3 111.1 05.043.612.7 1 pa 410 533 407 531 482.6 241.3 101.6 139.7 127 111.1 05.043.621.7 1 pa 600 559 386.8 557 508 406.4 254 101.6 152.4 139.7 111.1 05.043.622.7 1 pa 540 610 437.7 608 558.8 457.2 279.4 101.6 177.8 165.1 111.1 05.043.624.7 1 pa	Part	oull-ou	t										
460 356 245.5 354 304.8 177.8 101.6 88.9 111.1 05.043.614.7 1 para 400 406 296.5 404 355.6 228.6 101.6 139.7 111.1 05.043.614.7 1 para 490 457 330.5 455 406.4 203.2 101.6 101.6 88.9 111.1 05.043.616.7 1 para 440 508 381.5 505 457.2 228.6 101.6 127 114.3 111.1 05.043.612.7 1 para 440 508 381.5 505 457.2 228.6 101.6 127 114.3 111.1 05.043.620.7 1 para 410 533 407 531 482.6 241.3 101.6 139.7 127 111.1 05.043.621.7 1 para 600 559 386.8 557 508 406.4 254 101.6 152.4 139.7 111.1 05.043.622.7 1 para 540 610 437.7 608 558.8 457.2 279.4 <t< th=""><th>mL(N)</th><th>А</th><th>В</th><th>С</th><th>D</th><th>E</th><th>F</th><th>G</th><th>Н</th><th>l.</th><th>K</th><th>Order no. 1</th><th>UP</th></t<>	mL(N)	А	В	С	D	E	F	G	Н	l.	K	Order no. 1	UP
400 406 296.5 404 355.6 228.6 101.6 139.7 111.1 05.043.616.7 1 paral 490 457 330.5 455 406.4 203.2 101.6 101.6 88.9 111.1 05.043.616.7 1 paral 440 508 381.5 505 457.2 228.6 101.6 127 114.3 111.1 05.043.620.7 1 paral 410 533 407 531 482.6 241.3 101.6 139.7 127 111.1 05.043.621.7 1 paral 600 559 386.8 557 508 406.4 254 101.6 152.4 139.7 111.1 05.043.621.7 1 paral 640 610 437.7 608 558.8 457.2 279.4 101.6 152.4 139.7 111.1 05.043.621.7 1 paral	500	330	220.5	328	279.4		152.4	101.6		63.5	111.1	05.043.613.7	1 pair
490 457 330.5 455 406.4 203.2 101.6 101.6 88.9 111.1 05.043.618.7 1 para 440 508 381.5 505 457.2 228.6 101.6 127 114.3 111.1 05.043.618.7 1 para 410 533 407 531 482.6 241.3 101.6 139.7 127 111.1 05.043.620.7 1 para 600 559 386.8 557 508 406.4 254 101.6 152.4 139.7 111.1 05.043.620.7 1 para 540 610 437.7 608 558.8 457.2 279.4 101.6 177.8 165.1 111.1 05.043.620.7 1 para	460	356	245.5	354	304.8		177.8	101.6		88.9	111.1	05.043.614.7	1 pair
440 508 381.5 505 457.2 228.6 101.6 127 114.3 111.1 05.043.620.7 1 paral 410 533 407 531 482.6 241.3 101.6 139.7 127 111.1 05.043.620.7 1 paral 600 559 386.8 557 508 406.4 254 101.6 152.4 139.7 111.1 05.043.621.7 1 paral 540 610 437.7 608 558.8 457.2 279.4 101.6 177.8 165.1 111.1 05.043.621.7 1 paral	400	406	296.5	404	355.6		228.6	101.6		139.7	111.1	05.043.616.7	1 pair
410 533 407 531 482.6 241.3 101.6 139.7 127 111.1 05.043.621.7 1 pa 600 559 386.8 557 508 406.4 254 101.6 152.4 139.7 111.1 05.043.622.7 1 pa 540 610 437.7 608 558.8 457.2 279.4 101.6 177.8 165.1 111.1 05.043.624.7 1 pa	490	457	330.5	455	406.4		203.2	101.6	101.6	88.9	111.1	05.043.618.7	1 pair
600 559 386.8 557 508 406.4 254 101.6 152.4 139.7 111.1 05.043.622.7 1 particular 540 610 437.7 608 558.8 457.2 279.4 101.6 177.8 165.1 111.1 05.043.624.7 1 particular	440	508	381.5	505	457.2		228.6	101.6	127	114.3	111.1	05.043.620.7	1 pair
540 610 437.7 608 558.8 457.2 279.4 101.6 177.8 165.1 111.1 05.043.624.7 1 page	410	533	407	531	482.6		241.3	101.6	139.7	127	111.1	05.043.621.7	1 pair
	600	559	386.8	557	508	406.4	254	101.6	152.4	139.7	111.1	05.043.622.7	1 pair
500 660 488.5 658 609.6 508 304.8 101.6 203.2 190.5 111.1 05.043.626.7 1 pa	540	610	437.7	608	558.8	457.2	279.4	101.6	177.8	165.1	111.1	05.043.624.7	1 pair
	500	660	488.5	658	609.6	508	304.8	101.6	203.2	190.5	111.1	05.043.626.7	1 pair
600 711 500 709 660.4 558.8 330.2 101.6 228.6 215.6 111.1 05.043.628.7 1 particular	600	711	500	709	660.4	558.8	330.2	101.6	228.6	215.6	111.1	05.043.628.7	1 pair



TEL00173



TEL20003



Telescopic Slides

_

- Conversion also possible at any later stage
- Material

TEL20010

W	Н	D	U	Model	Order no.	UP
				Form lock	05.043.666.9	10 unit
				Friction lock	05.043.667.9	10 unit



Stop Spring for Ball Bearing

Quick and easy conversion from form

- lock to friction lock and vice versa

Spring steel

Supply schedule

Secor	10 units	

- Locking in pulled-out position (friction lock)

- 3/4 pull-out, two-part

- Quick mechanism for removing and connecting slot-in without tools
- Material Cold rolled steel
- Finish
 - Sendizimir zinc-passivated
- Load rating 400 600 N static per slide pair depending on length
- Supply schedule 1 pair of telescopic slides
- How supplied Flat-packed kit
- Note

Please also order assembly set, order number 05.043.595.9

Ball Bearing Telescopic Slide, BF-480-FLR **Full pull-out** mL(N) С Α В D E F G Н Κ Order no. 1 455 356 381 354 323.9 311.2 298.5 200 0 05.043.854.7 490 406 432.5 404 374.7 362 349.3 139.7 111.1 05.043.856.7 495 457 483.5 455 425.5 412.8 400.1 212.7 190.5 111.1 05.043.858.7 510 508 530.5 506 476.3 463.6 450.9 365.1 238.1 241.3 111.1 05.043.860.7 510 559 584.5 557 527.1 514.4 501.7 415.9 263.5 292.1 111.1 05.043.862.7 515 610 635.5 277.9 565.2 552.5 466.7 111.1 05.043.864.7 608 288.9 342.9 628.7 517.5 111.1 05.043.866.7 520 660 686.5 658 616 603.3 314.3 393.7

654.1



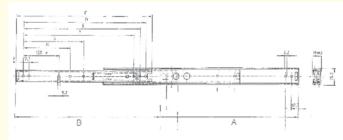
711

737.5

709

TEL00173

520



568.3

339.7

444.5

111.1

TEL20011

679.5

666.8

Full pull-out, three-part

05.043.868.7

- Locking in pulled-out position (form lock)

UP

1 pair

_ Quick mechanism for removing and connecting slot-in without tools

Material Cold rolled steel

Finish

Sendizimir zinc-passivated

Load rating 455 - 520 N static per slide pair depending on length

- Supply schedule 1 pair of telescopic slides
- How supplied Flat-packed kit

Note

Please also order assembly set, order number 05.043.595.9



TEL00012

Assembly set for **Ball Bearing Slides**

For quick and easy assembly of telescopic slides, BP-400-LR and BF-480-FLR

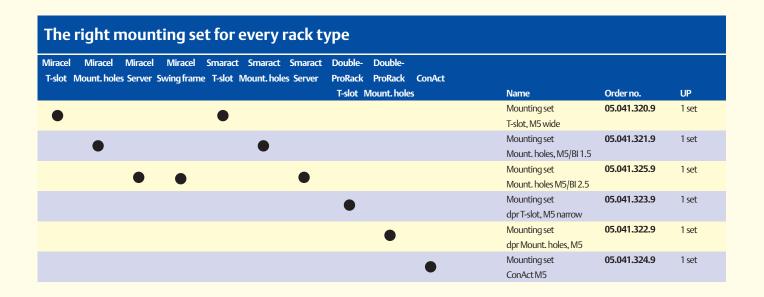
Material Zincorium plate, 1.5 mm

Supply schedule 4 mounting brackets Mounting material

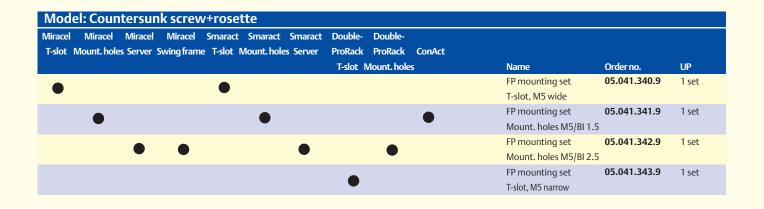
How supplied Flat-packed kit

W	н	D	U	Model	Order no.	UP	
				Form lock	05.043.595.9	1 set	

Dimensions in mm: W	= Width	U =	standard height unit
Н	= Height		1 U = 44.45 mm
D	= Depth	UP =	unit of packaging
h	= installation height	: kg =	weight
d	 useful depth 	WxL =	Surface area
L	= length	-	
CW	 Clear width 	6	Express item
		-	
Conversion: 1 mm	= 0.03937 inch	1 kg =	2.2046 pound



The right mounting set for front panel mounting Model: Z-form screw								
Miracel Miracel Miracel Smaract S	Smaract Smaract Double- Double-							
T-slot Mount. holes Server Swing frame T-slot Mo	ount.holes Server ProRack ProRack ConAct							
	T-slot Mount. holes	Name	Order no.	UP				
		FP mounting set	05.041.335.9	1 set				
•		T-slot, M5 wide						
		FP mounting set	05.041.336.9	1 set				
•	•	Mount. holes M5/BI 1.	5					
		FP mounting set	05.041.337.9	1 set				
• •	•	Mount. holes M5/BI 2.	5					
		FP mounting set	05.041.338.9	1 set				
		T-slot, M5 narrow						





The right accessories for every rack type									
Airacel Miracel Miracel Smaract Smaract Smaract Double- Double- T-slot Mount. holes Server Swing frame T-slot Mount. holes Server ProRack ProRack ConAct T-slot Mount. holes	Name	Order no.	UP						
• •	Spring nut M5 wide	01.350.431.9	1 set						
•	Spring nut M5 narrow	05.041.503.9	1 set						
• •	Spring nut M6	01.350.405.9	1 set						
• • •	Caged nut M5/BI 1.5	05.041.513.7	1 set						
• • • •	Caged nut M5/BI 2.5	05.041.518.7	1 set						
• • •	Oval head screw Z-form M5 x 10	05.041.330.9	1 set						
• • • • • •	Oval head screw Z-form M5 x 16	05.041.331.9	1 set						
• •	Countersunk screw M5 x 12 + rosette	05.041.203.9	1 set						
• • • • • • •	Countersunk screw M5 x 16 + rosette	05.041.290.9	1 set						







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D

T-Slot Mounting set, M5, Wide For Miracel[®]/Smaract[®]

- For mounting 19" front panels and 19" components
- Supply schedule

How supplied

components

Model

Flat-packed kit

100 spring nuts M5, wide 100 oval head screws, Z-form, M5 x 10 20 caged nuts, M5 / plate, 1.5 mm 20 cylinder screws, M5 x 8

Order no.

Mounting Holes Mounting

Set, M5 / Plate, 1.5 mm

For Miracel[®]/Smaract[®]

For mounting 19" front panels and 19"

05.041.320.9 1 set



Mounting Holes Mounting Set, M5 For DoubleProRack[®]

- For mounting 19" front panels and 19" components

Supply schedule

100 caged nuts M5 / plate, 2.5 mm 50 oval head screws, Z form, M5 x 16 40 spring nuts, M5 narrow 40 cylinder screws, M5 x 10

How supplied Flat-packed kit

Model

w н D

UP

Order no. UP 05.041.322.9 6 1 set

D

MEC20126

W

MEC20126

w Н

	100 oval h 20 spring	I nuts M5 / plate, 1.5 mm iead screws, Z form, M5 x 1 g nuts, M5 wide ler screws, M5 x 8 plied	6
UdL	Model	Order no. L	JP
		05.041.321.9 🤡 1	set
		_	
Ð	Extrusion	g Holes-Server Mounting Set M5 / F or Miracel®/ Smaract	
Mor.	– For mount component	ting 19" front panels and 19 nts	Э"
	100 oval h 20 spring	t hedule I nuts M5 / plate, 2.5 mm I nuts, M5 vide I nuts, M5 wide Ier screws, M5 x 8	6
	How sup	plied	

Flat-packed kit

Model

w н D d L



MEC20127

	T-Slot Mounting set, M5, Narrow for DoubleProRack®
-	 For mounting 19" front panels and 19" components
0.0	Supply schedule 100 spring nuts, M5 narrow
	20 oval head screws, Z form, M5 x 10 50 cylinder screws, M5 x 10

/15 x 10 30 oval head screws, Z form, M5 x 8

Order no.

05.041.325.9 🛃 1 set

How supplied Flat-packed kit

W	н	D	U	d L	Model	Order no.	UP
						05.041.323.9	🛃 1 set



MEC20096

w Н

ite

UP

- For mounting 19" front panels and 19" components Supply schedule

Order no.

Front panel mounting set,

For Miracel[®]/ Smaract[®]

- For mounting 19" front panels and 19"

05.041.324.9 🔄 1 set

UP

Mounting Holes Mounting

Set, M5 For ConAct®

50 caged nuts M5 / plate, 1.5 mm 50 oval head screws, Z-form, M5 x 16 50 cylinder screws, M5 x 8 25 locking nuts, M5

How supplied

Flat-packed kit

Model D d L

d I

11

Type 1

MEC20129

н

w



Supply schedule **Type 1:** 50 spring nuts, M5 wide

T-slot, M5 wide

50 oval head screws, Z-form, M5 x 10 Type 2: 50 spring nuts, M5 wide 50 countersunk screws, M5 x 12 50 rosettes

How supplied Flat-packed kit

components

U d L Model Order no. D UP 05.041.335.9 😔 1 set Type 1: Z-form screw 05.041.340.9 🧶 1 set Type 2: Screw+rosette



Front Panel Mounting Set, Mounting Holes, M5/Plate, 1.5 mm For Miracel[®]/Smaract[®]/ConAct[®]

- For mounting 19" front panels and 19" components

Supply schedule

Type 1: 50 caged nuts M5 / plate, 1.5 mm 50 oval head screws, Z-form, M5 x 16 Type 2:

50 caged nuts M5 /plate, 1.5 mm 50 countersunk screws, M5 x 16

50 rosettes

M5 x 12

M5 x 16

05.041.203.9 🛃 1 set

05.041.290.9 🤡 1 set



MEC00060

T-nut size: 10 x 13 mm

- Type 2: M5 narrow for DoubleProRack T-nut size: 8 x 13 mm Type 3: M6 for Miracel / Smaract
 - T-nut size: 10 x 13 mm



Oval Head Screw Self-guiding

- DIN 7500
- Suitable for system accessories fixed on the inside of the 19" extrusions
- Suitable for 19" steel and 19" aluminum extrusions

Order no.

05.041.334.9

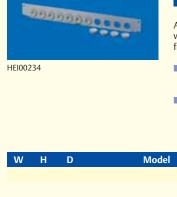
UP

1 set

- Easy screwing
- Supply schedule 50 oval head screws, M6x10
- How supplied Flat-packed kit

Model

M6 x 10



Cable Entry Rail

Alternative to cable entry via brush strips when installing distributor box in open frames

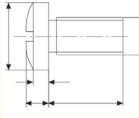
Material/ Finish Sheet steel, zinc-passivated

- Supply schedule 1 cable routing panel 11 bushing sockets

Mounting material

Order no. UP

03.013.386.1 1 unit



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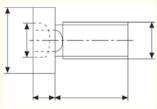
Oval Head Screw With Phillips head IEC DIN EN ISO 7045

Supply schedule 1 set of 50 units

MEC00014

w н

W	Н	D	U	d L	Model	Order no.	UP
				8	M 5 no washer	05.041.611.8	1 set
				12	M 4 no washer	05.041.609.8	1 set
				12	M 5 with washer	05.041.613.8 🧕	1 set
				16	M 5 with washer	05.041.614.8	1 set
				16	M 6 with washer	05.041.616.8 🧕	1 set



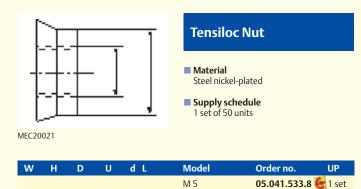
Cylinder Screw With hexagon head

- IEC ISO 4762 (modified)
- Supply schedule

1 set of 50 units

MEC00013

w	н	D	U	d L	Model	Order no.	UP
				0	M 5	05.041.574.8	
				8	M 5 microencaps	ulated 05.041.575.9	🛃 1 set



5	
1	.0

ELM00058

Luminestra **Rack Lighting**

- Only for rack type Miracel W 700, W 800 Mounting is made on the basic frame above the vertical extrusions
- With 13 watt fluorescent tube
- With on/off rocker switch
- _ With 2 m power supply lead and EURO plug
- Complete with mounting material _ - Only with 123 mm front jumpering
 - space
- Color White

Supply schedule

1 Luminestra rack lamp 2 mounting brackets Mounting material

Compact Rack Lamp

W	н	D	U	hdw	Model	Order no.	UP
70	20	555				01.131.227.9	1 unit



ELM00135

w н

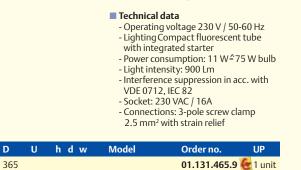
65 65 D



Features With magnetic mounting Energy-saving lamp Protective contact socket On/off switch 3 m power supply lead With cover panel

> Approval VDE, ICE

Protection rating IP20





HEI00379

1 Distribution Box

For mounting installation technology DIN rail components, such as fuses, clamps, relays, etc.

In the built-in status, the mounting level can be pulled out at the front, locked in position, and as a result, significantly simplifies the wiring of the

individual components Not with "fixed installation" model On request: Delivered assembled and wired Further versions and models on

request

- Installation space for up to 22 pieces of equipment with 18 mm width each Mounting of the TS35 DIN rail on several
- levels with simple plug-in connection
- Not with "fixed installation" version "Snap-in" mounting of DIN rail components
- Easy access to the protective earth and neutral conductor rails from the front
- Various positioning options prepared for N and PE rails
- Not with "fixed installation" version Cable entry at the rear via double brush
- strip (optionally via bushing sockets) Cable strain relief on the inside and therefore accessible from the front
- Labeling strips on the front, above and
- below the installation space Installation options for power distribution with 230 V AC, but also in the low voltage
- range (e.g. 48 V DC) 19" slot-in, 3 U, depth 150 mm _
- Material/ Finish

- Covers, powder-coated texture, RAL 7035 light gray - Main unit, zinc-passivated sheet steel

Supply schedule

1 distribution box Including N and PE rails, cable entry, cable strain relief, empty panel covers and earth set

How supplied Fully assembled

W	Н	D	U	19"	Model	Order no.	UP
482.6	134	150	3	•	Pull-out	03.013.385.1 🧕	1 unit
482.6	134	150	3	•	Fixed installation	03.013.470.1	1 unit



Dimensions in mm: W = Width U = standar H = Height 1 U = 4 D = Depth UP = unit of p h = installation height kg = weight U = standard height unit 1 U = 44.45 mm UP = unit of packaging d = useful depth L = length 🛃 = Express item 1 mm = 0.03937 inch 1 kg = 2.2046 pound Conversion:



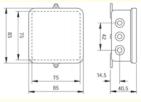
ELM00137

Model W H S U h d kg

Order no. UP 01.110.722.9 🛃 1 unit



ELM00033



FIM00034

W	Н	D	U	h d w	Model	Order no.	UP
						00.078.720.9	1 unit



ELM00128

	Modular Terminal Box
.81	 For 230V electro-installation on-site With series terminal, 8 x 4² Pg 11/16 entry IP 54
	Material High impact fire resistant polystyres

Material

High-impact, fire-resistant polystyrene

Supply schedule 1 modular terminal box

4 Pg compression glands, Pg11

W	Н	S	U	h d kg	Model	Order no.	UP
						01.117.521.9	🚰 1 unit

Door Contact Switch

- On/off switch, 4 A, 230 V ~
- Activation with door opening and closing

Supply schedule

- 1 door contact switch (not wired)
- 1 mounting brackets
- Mounting material



- For 230V electro-installation on-site
- As fixed-location exchange point
- Quick and easy mounting
- Supply schedule 1 cable junction box



ELM00114

W H

1 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 $8-10 \text{ mm} \emptyset$ 7 x single or several-wire conductors up to 16 mm² or fine wire conductor up to 10 mm²

Order no.

01.117.524.3 🔄 1 unit

UP

Material

Model

Base and cover, high-impact plastic Brass nickel-plated contact strip

Supply schedule

1 equipotential bonding bar

Eart		

U

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h d kg

ELM00068

hing Bar

- For safe earthing and equipotential bonding of equipment and installation components
- Material Electrolyte copper, 9x9

Supply schedule	
1 earthing bar	
2 brackets	
Mounting material	

W	Н	S	Uhd kg	Model	Order no. UF	Р
			24	For DoubleProRack	01.240.546.9 1 u	unit
			21	For DoubleProRack	01.240.545.9 1 u	unit
			18	For DoubleProRack	01.240.544.9 1 u	unit
			15	For DoubleProRack	01.240.543.9 1 u	unit
			45	For Miracel	01.110.709.9 1 u	unit
			41	For Miracel	01.110.708.9 🤡 1 u	unit
			12	For Miracel	01.110.703.9 🥌 1 u	unit



Contact Clamp

- For safe and secure connection of equipment and installation components with the earthing bar
- For cables up to 25 mm²
- Supply schedule 20 contact clamps

DOP20016

W	Н	S	U	h d kg	Model	Order no.	UP
						01.110.715.9	🛃 20 unit



Emerson Network Power Rack PDUs



Rack PDUs



Overview : Emerson Network Power Rack PDUs Europe

	Knürr DI-Strip	Basic Rack PDI	J®	Liebert MPH™ Managed Rac		Liebert MPX™ Adaptive Rack PDU			
Merkmale	Knürr DI-STRIP	Knürr DI-STRIP M	Knürr DI-STRIP RM	Liebert MPH Branch Monitored	Liebert MPH controlled	Liebert MPX Elementary	Liebert MPX Elementary Phase monitored	Liebert MPX Branch monitored	Liebert MPX Receptacle managed
Power distribution	•	•	•	•	•	•	•	•	•
Modular						•	•	•	•
Local display		Fixed	Fixed	Modular	Modular		Modular	Modular	Modular
Remote interface			•	•	•		•	•	•
Measuring on input level		•	•	•	•		•	•	•
Measuring per group				•	•			•	•
Measuring per output									•
Switching per output					•				•
Measuring parameters		A	A	A,V,W,KWh, Hz	A,V,W,KWh, Hz		A,V,W,KWh, Hz	A,V,W,KWh, VA, Hz, power factor	A,V,W,KWh, VA, Hz, power factor, crest factor
Input power	1ph + 3ph max 32A	1ph + 3ph max 32A	1ph + 3ph max 32A	1ph + 3ph max 32A	1ph + 3ph max 32A	1ph + 3ph max 63A	1ph + 3ph max 63A	1ph + 3ph max 63A	1ph + 3ph max 63A
Outputs	IEC C13&C19 Schuko Switzerland France	IEC C13&C19 Schuko Switzerland France	IEC C13&C19 Schuko Switzerland France	IEC C13&C19	IEC C13&C19	IEC C13&C19 Schuko	IEC C13&C19 Schuko	IEC C13&C19 Schuko	IEC C13&C19 Schuko
Different sensors can be connected				•	•		•	•	•





www.knuerr.com

Adaptive Rack PDU Liebert MPXTM

The **Liebert MPX[™]** modular rack PDU system is particularly impressive with its maximum flexibility, highest possible availability and low operating costs. With the **Liebert MPX[™]** users can quickly and specifically react to new requirements for power supply and rack management. The **Liebert MPX[™]** gives users the ability to dimension their rack PDU system so that all current requirements are met first off. The system can then be flexibly adjusted later on when new requirements appear. The **Liebert MPX[™]** builds on a design that is based on a power supply/communication bus and on input/output modules.

The **Liebert MPX[™]** modular rack PDU consists of various modules. The foundation stone is a busbar, which is responsible for the power and communication distribution to the individual modules. The input power is routed via the MPX Power Entry Module (MPX PEM) to the MPX system. Different output modules (MPX Branch Receptacle Modules, MPX BRM) are available according to requirements. Four different lines can be set up depending on the equipment:

- Liebert MPX[™] Elementary
- Liebert MPX[™] Elementary Phase monitored
- Liebert MPX[™] Branch monitored
- Liebert MPX[™] Receptacle managed

These lines can also be mixed on a shared busbar, this being one of the exceptional features of the **Liebert MPX™**. Interfaces for the network communication, the sensors and/or the local display are provided by the Liebert Rack PDU Card (Liebert RPC) in the MPX PEM. The Liebert RPC Card enables connection to an optional RPC Basic Display Module (RPC BDM) to display the local status and alarms.

Emerson Network Power Rack PDUs



The **Liebert MPX[™]** is provided as a separate, loosely packaged module for on-site configuration by the user. The MPX was designed especially for quick and easy configuration and re-configuration. Preconfigured systems are also available when ordered as factory-installed Knürr rack enclosure systems.

Liebert MPX™ Strong points

Highest possible security and availability with:

- Redundant control electronics power supply (with redundant tapping of various phase in the Power Entry Module)
- Fixed databus on the busbar (making cable breaks a thing of the past)
- With complete data tapping on the PEM (without any additional external monitoring devices)
- Additional neutral conductor measurement
- Crest factor measurement (mains quality evaluation, allowing power supply failures to be identified early on)

Maximum flexibility and scalability with:

- Configuration of all modules according to their requirements (including input module)
- "Hot-swappable" during running operation
- Feed can be changed (singlephase up to three-phase, 16 up to 63 ampere)
- Mobile display for reading all MPX[™] data on the rack
- Optical display of the slot space (easy server slot space identification at the push of a button)

Ultimate high performance with:

- Power illustration up to 28 kVA per bar and 55°C ambient temperature
- Only one IP address for up to 4 bars with 24 modules
- Plug and play for numerous sensors

- Extensive monitoring with a measuring accuracy of +/- 1% up to output level
- Module and sensor autodetect function with operating software
 Lowest possible MPX[™] system
- powerloss
- Perfect for blade servers and changing environments

Data centers work more and more with high performance blade servers and require more processor power on low rack space; cabling must be simplified; power consumption must be reduced. With the MPX[™] the data center can quickly react to changes, which is why our product is the right choice for your infrastructure's administration.



Status display (RPC-BDM)

Can be easily positioned at the optimum spot for the individual rack; even functions outside the rack. This connected display can be mounted just as the user wishes.



Liebert MPX[™] PRC - Power Distribution Unit/Communication Bus

- The MPX PRC is the foundation stone of the Liebert MPX PDU.
- Power and data transfer buses are integrated fixed over the entire length of the MPX PRC.
- The MPX BRMs (output modules) and the MPX PEM (power entry module) are fixed on the MPX PRC and depending on the type take care of the modules' power feed, output, monitoring and management.

Material/ Finish

Busbars housing: Aluminum Busbars: Copper Databus: Gilded

Dimensions Width: 68 mm Height: 24 mm

Color

Housing: aluminum

Approvals

- CE label in accordance with low voltage guideline 2006/95/EWG

- EMC Directive 2004/108/EC
- Innova GS

Load rating

Max. current intensity: 3 x 63 A Nominal voltage (L-N / L-L): 230 / 400 Vac

Supply schedule

- 1 Liebert MPX[™] PRC Power Distribution Unit/Communication Bus
- 1 mounting set Operating instructions

L	W	Н	U	Model	Order no.	UP
1035	68	24	23	1 PEM (220mm) + 3 BRM	MPXPRC-V1035XXX	1 unit
1880	68	24	42	1 PEM (220/266mm) + 6 BRM	MPXPRC-V1880XXX	1 unit



DOS20153

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Liebert MPX[™] – Input Module/Power Supply

Elementary and Monitored type:

- The MPX PEM is fixed on the MPX PRC and provides the connection to the power supply.
- Cable is connected fixed, 3 m long
- With IEC60309 plug, 1Ph/N/PE 6h blue, 3Ph/N/PE 6h red

Monitored type:

- The MPX PEM provides the connection to the databus for the data communication.
- The MPX PEM has an installation slot into which the RPC-1000 communication card can be installed. (Not in the supply schedule)
- Provides the following measured values of the phase inputs: real power, current, voltage, frequency and consumption.
- Power alarm functions for the individual phases and their operating status are also supported.
- Further important features: Three displays inform the user about the current status of each individual input. An acoustic alarm is activated with specific overload conditions.

Material/ Finish

Housing: Aluminum Cover: Sheet steel Power contacts: Silvered Databus contacts: Gilded (only Monitored type)

Dimensions

Width: 75 mm Height: 65 mm Cable: 3 m

Color

Housing: Aluminum/RAL 9011 black

Approvals

- CE label in accordance with low voltage guideline 2006/95/EWG
- EMC Directive 2004/108/EC
- Innova GS

Supply schedule

1 MPX PEM - Power Entry Module incl. connection cable Operating instructions

L	W	Н	U	Feed	Load rating	Туре	Order no.	UP
220	75	65		Fixed	230Vac, max 32A	Elementary	MPXPEM-EHAEXQ30	1 unit
220	75	65		Fixed	230/400Vac, max 16A	Elementary	MPXPEM-EHAEXT30	1 unit
220	75	65		Fixed	230/400Vac, max 32A	Elementary	MPXPEM-EHAEXR30	1 unit
266	75	65		Fixed	230/400VacC, max 63A	Elementary	MPXPEM-EHBEXZ30	1 unit
220	75	65		Fixed	230Vac, max 32A	Monitored	MPXPEM-EHAXXQ30	1 unit
220	75	65		Fixed	230/400Vac, max 16A	Monitored	MPXPEM-EHAXXT30	1 unit
220	75	65		Fixed	230/400Vac, max 32A	Monitored	MPXPEM-EHAXXR30	1 unit
266	75	65		Fixed	230/400Vac, max 63A	Monitored	MPXPEM-EHBXXZ30	1 unit



DOS20153

Liebert MPX[™] BRM - Output Module

- The MPX BRM takes care of the power distribution to the individual load
- Each module taps a phase; this is color-identified on the module.
- All modules are protected against overload with a 20A circuit breaker.
- Changing the modules during operation enables a user-defined installation, without having to shut down the Liebert MPX.
- Up to 3 BRM output modules can be installed on a 1035 mm PRC busbar; up to 6 BRM output modules can be installed on a 1880 mm PRC busbar.

Type E - Elementary:

- Module for power distribution via respective outputs

Type B – Branch monitored:

- Module for power distribution via respective outputs with measuring function on module level
- The MPX BRMs have an LED-ID indicator, which clearly identifies every module with a number.
- The modules are administered in the software
- Provides the following measured values: power, current, voltage, apparent power, kWh and power factor
- Power alarm functions and the operating status are supported

Type R – Receptacle managed:

- Module for power distribution via respective outputs with measuring function on module level and output level

- The MPX BRMs have an LED-ID indicator, which clearly identifies every module with a number.
- The modules are administered in the software
- Provides the following measured values: power, current, voltage, apparent power, kWh, frequency, power factor and crest factor
- Power alarm functions and the operating status are supported
- The individual outputs can be switched on and off remotely

Material/ Finish

Housing: Aluminum Cover: Sheet steel Power contacts: Silvered Databus contacts: Gilded (only type B and R)

Dimensions

Width: 75 mm Height: 65 mm

Color

Housing: Aluminum/RAL 9011 black

Approvals

- ČE label in accordance with low voltage guideline 2006/95/EWG
- EMC Directive 2004/108/EC
- Innova GS

Supply schedule

1 MPXTM BRM Output Module Operating instructions

L	n	Outputs	Load rating per output	Phase tapping	Туре	Order no.	UP
266	7	IEC320 Sheet F	10A	L1	E	MPXBRM-EEBC7N1N	1 unit
266	7	IEC320 Sheet F	10A	L2	E	MPXBRM-EEBC7N2N	1 unit
266	7	IEC320 Sheet F	10A	L3	E	MPXBRM-EEBC7N3N	1 unit
266	4	IEC320 Sheet J	16A	L1	E	MPXBRM-EEBC4O1N	1 unit
266	4	IEC320 Sheet J	16A	L2	E	MPXBRM-EEBC4O2N	1 unit
266	4	IEC320 Sheet J	16A	L3	E	MPXBRM-EEBC4O3N	1 unit
266	3	Schuko CEE 7/4	16A	L1	E	MPXBRM-EEBC3P1N	1 unit
266	3	Schuko CEE 7/4	16A	L2	E	MPXBRM-EEBC3P2N	1 unit
266	3	Schuko CEE 7/4	16A	L3	E	MPXBRM-EEBC3P3N	1 unit
266	6	IEC320 Sheet F	10A	L1	В	MPXBRM-EBBC6N1N	1 unit
266	6	IEC320 Sheet F	10A	L2	В	MPXBRM-EBBC6N2N	1 unit
266	6	IEC320 Sheet F	10A	L3	В	MPXBRM-EBBC6N3N	1 unit
266	4	IEC320 Sheet J	16A	L1	В	MPXBRM-EBBC4O1N	1 unit
266	4	IEC320 Sheet J	16A	L2	В	MPXBRM-EBBC4O2N	1 unit
266	4	IEC320 Sheet J	16A	L3	В	MPXBRM-EBBC4O3N	1 unit
266	3	Schuko CEE 7/4	16A	L1	В	MPXBRM-EBBC3P1N	1 unit
266	3	Schuko CEE 7/4	16A	L2	В	MPXBRM-EBBC3P2N	1 unit
266	3	Schuko CEE 7/4	16A	L3	В	MPXBRM-EBBC3P3N	1 unit
266	6	IEC320 Sheet F	10A	L1	R	MPXBRM-ERBC6N1N	1 unit
266	6	IEC320 Sheet F	10A	L2	R	MPXBRM-ERBC6N2N	1 unit
266	6	IEC320 Sheet F	10A	L3	R	MPXBRM-ERBC6N3N	1 unit
266	4	IEC320 Sheet J	16A	L1	R	MPXBRM-ERBC4O1N	1 unit
266	4	IEC320 Sheet J	16A	L2	R	MPXBRM-ERBC4O2N	1 unit
266	4	IEC320 Sheet J	16A	L3	R	MPXBRM-ERBC4O3N	1 unit
266	3	Schuko CEE 7/4	16A	L1	R	MPXBRM-ERBC3P1N	1 unit
266	3	Schuko CEE 7/4	16A	L2	R	MPXBRM-ERBC3P2N	1 unit
266	3	Schuko CEE 7/4	16A	L3	R	MPXBRM-ERBC3P3N	1 unit



Liebert RPC - 1000 Communication Card

- The Liebert RPC centralizes the Liebert MPX local and remote administration.
- Administration via web and SNMP for systems connected to the Ethernet.
- Also serves as the connection point for versatile support options and devices, such as the display module (RPC BDM), various sensors and connection to other Liebert MPX or Liebert MPH systems, for example.
- Has RJ-45 ports for all connections and does not require any special cabling.
- Supports 10 and 100 MBit Ethernet and provides on-site firmware upgrade.
- Installed in an MPX PEM (input module) slot.

Technical data

Ethernet cable

Interfaces: - RJ-45 LAN port (10/100 MBit) – for connecting to the local network (LAN) via an

- Expansion/administration port for local configuration using a computer/laptop, for setting up a link-up of several PDUs (Liebert MPX or MPH)
- Display port for connecting the RPC BDM (display module)
- External sensor port for connecting optional sensors

Supported technologies:

- Web support, provides Liebert MPX control and management. Authorized users can view status information via their network.
- SNMP support, provides Liebert MPX SNMP management.
- Easy integration into Liebert Nform, Avocent DSVIEW3 and Nagios

Supply schedule

1 RPC-1000 communication card Operating instructions

L	W	Н	U	Model	Order no.	UP
					RPC-1000	1 unit



DOS20153

Liebert RPC BDM - 1000 Display Module

- Provides the local display of the monitored data for all connected Liebert MPX and Liebert MPH systems.
- Operated with the aid of a navigation switch. - Connected via a cable with the Liebert RPC,
- which provides the user the option of placing the displays where they can be easily read in accordance with the local space conditions.
- An individual display can be used for up to four Liebert MPX or Liebert MPH PDUs, which are connected to a PDU array.

Note

The Display Module is not required for operating the Liebert MPX or MPH, but it itself requires the Liebert RPC-1000 (communication card)

Supply schedule

- 1 RPCBDM-1000 Display Module
- 1 2m power supply lead
- 1 mounting set
- Operating instructions

L	W	Н	U	Model	Order no.	UP
					RPCBDM-1000	1 unit



Liebert MPX[™]/MPH[™] Sensors

- The sensors are designed for tool-less installation in a Knürr Miracel Rack, but they can also be installed in any other rack.
- "Fixed" type sensors are fixed to a cable.- "Modular" type sensors can be connected with
- the delivered cable. - Are affixed to the RPC-1000 communication
- card
- Several sensors can be connected in rows (max. length: 20m)
- Are automatically displayed in the Liebert MPX/MPH software
- Temperature measuring range: 5-55°C

- Accuracy: +/- 0.5°C

- Humidity measuring range: 10 – 95% - Accuracy: +/- 3.5%

Note

The sensors are not required for operating the Liebert MPX or MPH, but they require the Liebert RPC-1000 (communication card)

Supply schedule

1 sensor with connection cable Operating instructions

Cable length	Туре	Model	Order no.	UP
3660	Fixed	Single temp. sensor	SN-Z01	1 unit
5180	Fixed	Triple temp. sensor	SN-Z02	1 unit
5180	Fixed	Triple temp. sensor + single humidity	SN-Z03	1 unit
2000	Modular	Single temp. sensor	SN-T	1 unit
2000	Modular	Triple temp. sensor + single humidity	SN-TH	1 unit
2000	Modular	2 x door contact - input module*	SN-2D	1 unit
2000	Modular	3 x digital input	SN-3C	1 unit

* Suitable door contact switch: Order no.: 06.108.115.9

Order Numbers : Liebert MPX™ Europe

		Order number	MPX Elementary	MPX Elementary Phase monitored	MPX Branchmonitored	MPX Receptaclemanaged
Busbars	Length 1035	MPXPRC-V1035XXX	•	•	•	•
	Length 1880	MPXPRC-V1880XXX	•	•	•	•
Input modules	1ph 32A fixed	MPXPEM-EHAEXQ30	•			
		MPXPEM-EHAXXQ30		•	•	•
	3ph 16A fixed	MPXPEM-EHAEXT30	•			
		MPXPEM-EHAXXT30		•	•	•
	3ph 32A fixed	MPXPEM-EHAEXR30	•			
		MPXPEM-EHAXXR30		•	•	•
	3ph 63A fixed	MPXPEM-EHBEXZ30	PEM-EHBEXZ30			
		MPXPEM-EHBXXZ30		•	•	•
Output modules:	IEC-C13L1	MPXBRM-EEBC7N1N	•	•		
Elementary	IEC-C13 L2	MPXBRM-EEBC7N2N	•	•		
	IEC-C13L3	MPXBRM-EEBC7N3N	•	•		
	IEC-C19L1	MPXBRM-EEBC4O1N	•	•		
	IEC-C19L2	MPXBRM-EEBC4O2N	•	•		
	IEC-C19L3	MPXBRM-EEBC4O3N	•	•		
	Schuko L1	MPXBRM-EEBC3P1N	•	•		
	Schuko L2	MPXBRM-EEBC3P2N	•	•		
	Schuko L3	MPXBRM-EEBC3P3N	•	•		
Output modules:	IEC-C13L1	MPXBRM-EBBC6N1N	•		•	
Branch monitored	IEC-C13L2	MPXBRM-EBBC6N2N			•	
	IEC-C13L3	MPXBRM-EBBC6N3N			•	
	IEC-C19L1	MPXBRM-EBBC4O1N			•	
	IEC-C19L2	MPXBRM-EBBC4O2N			•	
	IEC-C19L3	MPXBRM-EBBC4O3N			•	
	Schuko L1	MPXBRM-EBBC3P1N			•	
	Schuko L2	MPXBRM-EBBC3P2N	-		•	
	Schuko L3	MPXBRM-EBBC3P3N			•	
Output modules:	IEC-C13L1	MPXBRM-ERBC6N1N				•
Receptacle managed	IEC-C13L2	MPXBRM-ERBC6N2N	- •			•
	IEC-C13L3	MPXBRM-ERBC6N3N	le i			•
	IEC-C19L1	MPXBRM-ERBC4O1N	ossible !			•
	IEC-C19L2	MPXBRM-ERBC4O2N				•
	IEC-C19L3	MPXBRM-ERBC4O3N	Upgrade p			•
	Schuko L1	MPXBRM-ERBC3P1N	bgr			•
	Schuko L2	MPXBRM-ERBC3P2N				•
	Schuko L3	MPXBRM-ERBC3P3N	-			•
Interface card		RPC-1000	-	•	•	•
Sensors	1xTemp.	SN-Z01	-	•	•	•
	3xTemp.	SN-Z02	1	•	•	•
	3xT. + 1xHum	SN-Z03	1	•	•	•
	1xTemp. Mod.	SN-T	1	•	•	•
	Temp/Hum Mod.	SN-TH	-	•	•	•
	2xDoor Mod.	SN-2D	1	•	•	•
	3xInput Mod.	SN-3C	-	•	•	•
Display ext.		RPCBDM-1000	⊣ [•		•

Emerson Network Power Rack PDUs



Managed Rack-PDU

Liebert MPH™

The **Liebert MPH**[®] Managed Rack PDU is a power supply system with monitoring and control functions.

The Liebert MPH[®] monitors the current, voltage, kW and kWh of the individual input phases, as well as the current per group with the 32A variants. The individual outputs can be switched on and off remotely depending on the type. Limit values, alarms and status can be retrieved and set. The housing consists of a robust sheet steel enclosure, so that the PDU can be easily installed in a Knürr rack, or even into other enclosure systems. The Liebert MPH can be installed vertically or horizontally (19"), depending on the type. The PDU is delivered pre-installed with the same communication card (RPC-1000) as the Liebert MPX[®]. All Liebert MPX[®] external modules can therefore be connected (e.g. sensors, display module). Up to 4 MPX/MPH can be connected as rack PDU array to consolidate the user's IP connection and the device monitoring.

Liebert MPH[™] Strong points

Liebert MPH™

Control technology support The monitored electrical parameters include: effective power, current intensity, voltage and accumulated energy or consumption. Capacity-oriented current intensity threshold values enable detailed rack PDU alarm signals.

Liebert MPH™:

- The benefit for your data center: Monitors electrical and environment parameters with threshold values and alarm management
- Controls access to the socket power
- Controls and administers individual sockets and/or groups of consumers and devices

- Forecasts failure situations before they occur and actively administers connected devices for maximum operating time

Liebert MPH[™] benefits: Flexibility

- A local display can be easily mounted and adjusted to heavily equipped and changing rack environments
- Mounting in 19" and 42 U rack environments
- Form factor: vertical (0 U) and rack mounting
- Compatible monitoring platform for Liebert MPH[™] and Liebert MPX[™] with seamless simultaneous operation
- Individually positioned interface for input network cable

Higher availability

- Controls and administers individual sockets
- Forecasts overcurrent conditions before critical phase
- Switches off redundant devices with power failures to increase availability and backup power
- Extended overload protection in branch lines minimizes danger with cascaded PDU overload

Extremely low operating costs

- Comprehensive control technology in a cost-effective package
- The rack PDU array uses a shared IP address for up to four racks
- PDUs, making installation guicker and easier
- Energy and current measurement provides data for maximizing the data center's current and cooling infrastructure
- Energy efficient control technology for sockets



DOS20153

Liebert MPH[™] Rack PDU

- The Liebert MPH® Type M is a monitored power distribution unit that monitors the phase inputs.
- Measured per phase are: power, current, voltage and consumption. The current is also monitored per group (only 32A model). - The **Liebert MPH® Type C** can also switch the
- individual outputs on and off remotely.
- Integrated Liebert RPC-1000 communication card enables remote monitoring and maintenance of MPH units.
- The RPC-1000 enables the interconnection of several MPH or MPX units and connection of the Liebert MPH[®] with the Liebert MPX[®] units for monitoring and administration.
- The Liebert MPH[®] can be monitored directly on-site with the RPC BDM-1000, an optional display module that is connected directly with the communication card. The monitoring unit can be flexibly mounted on the rack.

Material/ Finish

Housing: Sheet steel extrusion

Dimensions

Width: 50 mm (vertical), 178 mm (19") Height: 80 mm (vertical), 44 mm (19")

Color

Housing: RAL 7021 dark gray

Approvals

- ČE label in accordance with Low Voltage
- Directive 2006/95/EC - EMC Directive 2004/108/EC
- 65

Supply schedule

1 Liebert MPH[®] Socket Strip (PDU) 1 mounting brackets Operating instructions

L	Туре	Input values	Input plug	Outputs IEC320	Order no.	UP
438*	Μ	230Vac, 16A	IEC320-Sheet I	9xSheet F	MPH-EBR09NXXO30	1 unit
438*	Μ	230Vac, 32A	IEC60309 1ph/N/PE 6h	9xSheet F	MPH-EBR09NXXQ30	1 unit
1730	Μ	230Vac, 16A	IEC320-Sheet I	27xSheet F	MPH-EBV27NXXO30	1 unit
1730	М	230Vac, 16A	IEC320-Sheet I	21xSheet F/6xSheet J	MPH-EBV27NOXO30	1 unit
1730	Μ	230Vac, 32A	IEC60309 1ph/N/PE 6h	21xSheet F/6xSheet J	MPH-EBV27NOXQ30	1 unit
1730	Μ	230Vac, 32A	IEC60309 1ph/N/PE 6h	27xSheet F	MPH-EBV27NXXQ30	1 unit
1730	Μ	230/400Vac, 32A	IEC60309 3ph/N/PE 6h	27xSheet F	MPH-EBV27NXXR30	1 unit
1730	М	230/400Vac, 32A	IEC60309 3ph/N/PE 6h	21xSheet F/6xSheet J	MPH-EBV27NOXR30	1 unit
438*	С	230Vac, 16A	IEC320-Sheet I	9xSheet F	MPH-ECR09NXXO30	1 unit
438*	С	230Vac, 32A	IEC60309 1ph/N/PE 6h	9xSheet F	MPH-ECR09NXXQ30	1 unit
1730	С	230Vac, 16A	IEC320-Sheet I	27xSheet F	MPH-ECV27NXXO30	1 unit
1730	С	230Vac, 16A	IEC320-Sheet I	21xSheet F/6xSheet J	MPH-ECV27NOXO30	1 unit
1730	С	230Vac, 32A	IEC60309 1ph/N/PE 6h	21xSheet F/6xSheet J	MPH-ECV27NOXQ30	1 unit
1730	С	230Vac, 32A	IEC60309 1ph/N/PE 6h	27xSheet F	MPH-ECV27NXXQ30	1 unit
1730	С	230/400Vac, 32A	IEC60309 3ph/N/PE 6h	27xSheet F	MPH-ECV27NXXR30	1 unit
1730	С	230/400Vac, 32A	IEC60309 3ph/N/PE 6h	21xSheet F/ 6xSheet J	MPH-ECV27NOXR30	1 unit
* (19"	')					



Liebert MPX[™]/MPH[™] Sensors

- The sensors are designed for tool-less installation in a Knürr Miracel Rack, but they can also be installed in any other rack.
- "Fixed" type sensors are fixed to a cable. "Modular" type sensors can be connected with
- the delivered cable.
- Are affixed to the RPC-1000 communication card
- Several sensors can be connected in rows (max. length: 20m)
- Àre automatically displayed in the Liebert MPX/MPH software
- Temperature measuring range: 5-55°C

- Accuracy: +/- 0.5°C
- Humidity measuring range: 10 95% - Accuracy: +/- 3.5%

Note

The sensors are not required for operating the Liebert MPX or MPH, but they require the Liebert RPC-1000 (communication card)

Supply schedule

1 sensor with connection cable Operating instructions

Cable ler	ngthType	Model	Order no.	UP
3660	Fixed	Single temp. sensor	SN-Z01	1 unit
5180	Fixed	Triple temp. sensor	SN-Z02	1 unit
5180	Fixed	Triple temp. sensor + single humidity	SN-Z03	1 unit
2000	Modular	Single temp. sensor	SN-T	1 unit
2000	Modular	Triple temp. sensor + single humidity	SN-TH	1 unit
2000	Modular	2 x door contact - input module*	SN-2D	1 unit
2000	Modular	3 x digital input	SN-3C	1 unit
* C 11 11	1	0 100 110 115 0		

* Suitable door contact switch: Order no.: 06.108.115.9



DOS20153

Liebert RPC BDM - 1000 Display Module

- Provides the local display of the monitored data for all connected Liebert MPX and Liebert MPH systems.
- Operated with the aid of a navigation switch.
 Connected via a cable with the Liebert RPC, which provides the user the option of placing the displays where they can be easily read in
- accordance with the local space conditions. - An individual display can be used for up to four Liebert MPX or Liebert MPH PDUs, which are connected to a PDU array.

Note

The Display Module is not required for operating the Liebert MPX or MPH, but it itself requires the Liebert RPC-1000 (communication card)

Supply schedule

1 RPCBDM-1000 Display Module 1 2m power supply lead 1 mounting set Operating instructions

L	W	Н	U	Model	Order no.	UP
					RPCBDM-1000	1 unit

Emerson Network Power Rack PDUs

Liebert MPX[™] Adaptive Rack PDU

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Liebert MPH™ Managed Rack PDU

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Knürr DI-STRIP® Basic Rack PDU

Basic Rack PDU Knürr DI-STRIP®

Knürr's **Basic Rack PDU**s are the solution for every data center looking for robust, economical and flexible rack concepts.

The Knürr **DI-STRIP**[®] product family meets the power distribution requirements of many IT applications and other areas. Specially configured for the growing number of electronic components in network switching racks or server racks. Available with the most diverse accessories, such as circuit breakers, overvoltage protection, mains filter, master-slave function, emergency off button, fault current circuit breaker, local and remote power measurement, for example.

Knürr DI-STRIP[®] M:

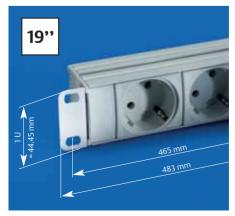
The DI-STRIP M model monitors the input current per phase locally. An unbalanced load warning is also shown on the display with 3ph PDUs. The displays can be changed in 90° steps with a selector switch.

Knürr DI-STRIP[®] RM:

The DI-STRIP RM model monitors the input current per phase locally and remote. Unbalanced load warning and different threshold values can be set and remotely forwarded.



1 DOS00291



4 DOS00365



5 DOS00721



7 DOS00366



8 DOS20131

Knürr DI-STRIP® Strong points

1 Robust!

Protects the plug panel with high casing edges.

2 Stability

High stability and torsional strength provided with closed sheet steel casing.

3 Electrical safety

Full power to all connected consumers with full-length brass busbar. Shock hazard-proof and low contact resistance with double spring

contacts.

4 19" installation

Optimum use of space with 19" installation:

- With low height 1 U (44.45 mm)
- With 45° positioning of the sockets

5 International compatibility

Numerous standard products in accordance with international standards. Special models on request.

Flexibility

Plenty of room for movement with 2.5 m power supply cable. Flexibility provided by standard plug with dual earthing system.

7 Aesthetics

Appealing design with extruded casing and design side panels in visible area.

Cost-effective

Quick and easy mounting on the rack extrusion.

Universal

1 and 3-phase systems.

10 Modularity

Socket strip modules can be easily combined using plug-in connections.

10 Plug-in

Proven GST18 plug-in system for connecting socket strip modules.

11 Certifications

Global approvals and certifications are a quality feature.



9 DOS20134



9 DOS20134



10 DOS20142



10 DOS20144

Emerson Network Power Rack PDUs

	Standard DIN 49 440
DI-STRIP® Classic - Socket spacing: 100 mm - With/without switch	Page 2.25
DI-STRIP [®] Compact - Socket spacing: 50 mm - With/without switch	Page 2.26
DI-STRIP [®] Protector - User protection (FI) - Circuit breaker (LS) - User protection and circuit breaker (FI/LS) - Equipment protection (BladePower/PizzaPower)	Page 2.27 19" Dos00394
DI-STRIP® Protector Emergency STOP - User protection / circuit breaker (FI/LS) - With emergency stop switch	Page 2.28 9" 5000000000000000000000000000000000
DI-STRIP [®] Power Cleaner - Mains filter (MF)	Page 2.29 900 900 900 900 900 900 900
DI-STRIP [®] Safety Basic DI-STRIP [®] Safety Standard - Overvoltage protection	Page 2.30 19" DOS00397
DI-STRIP® Master Slave - Automatic consumer switching	Page 2.32 19" Dos00366
DI-STRIP [®] Combi - Automatic consumer switching with overvoltage protection and mains filter	Page 2.32
DI-STRIP® GST18 Compact/Master Slave/Safety Basic/Safety Standard/IEC320 - Without cable for GST18 plug-in system (Wieland)	Page 2.34
GST18 Accessories DI-STRIP® M and DI-STRIP® RM	DOS00679 Page 2.18
	DOS80015
DI-STRIP [®] HighPower	

Emerson Network Power Rack PDUs

Euro Plug System	UTE Standard	Swiss Standard	Three-Phase Current Plug-In System
	Page 2.41	Page 2.51	
	DOS00402	DOS00717	
Page 2.38 19"	Page 2.42 19"	Page 2.52 19"	Page 2.23
DOS00457	DOS00401	Dos20074	Dos20121
Page 2.24 [19"]	Page 2.43	Page 2.53	Page 2.25
	I E Inconn		
DOS20155a	Page 2.44	DOS00719	DOS20153a
	-12-00000		
Page 2.35	Page 2.45		
	00000		
Page 2.35	DOS00400 Page 2.46	Page 2.53	
DOS20110	DOS00397 Page 2.48	DOS00720	
	DOS00464 Page 2.49		
	DOS00399		
Page 2.35	Page 2.50		Page 2.36
DOS20112	DOS00463		DO520103
Page 2.18			Page 2.23
DOS80001			
Page 1.21			Page 2.21
DOS80015			6-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1



Knürr DI-STRIP® RM

- Real RMS value display for the alternating current per phase
- LCD display rotation in 90° steps
- Display bright/dark switchover
- Warning display for unbalanced load
- Load changes signaling
- Automatic background light reduction

Data interface:

- The plug strip can be integrated into the network via an RJ45 plug.
- Access is possible without special software via a remote browser.
- Three variable limit values and a warning for unbalanced loads can be specified.
- The module enables access for up to 5 users or administrators; access is password-protected.
- The software displays the name and place of the PDU; this information can be entered by an administrator.
- The user can specify a static IP address or access using DHCP.
- Firmware updates can be made via a web browser.
- Supported protocols: HTTP, SNMP (Traps, SET, GET), Syslog

Material/ Finish

- PizzaPower model: Housing: Sheet steel, zinc-passivated, powder-coated

- Other models:
- Housing: closed sheet steel extrusion, zinc-passivated, powder-coated texture Plastic parts: Vampamid 6 0024 VO (UL94), recyclable

Dimensions

Width: 84 mm (PizzaPower), 44.4 mm (others) Height: 60 mm (PizzaPower), 44.4 mm (others)

Color

PizzaPower model: Housing: RAL 9005 black Other models: Housing: RAL 7035 light gray Plastic parts: RAL 7021 dark gray

Approvals

l in accordance with low voltage guideline 2006/95/EWG - EMC Directive 2004/108/EC

- GS

Supply schedule

1 socket strip (PDU) with remote ampere meter 1 mounting brackets Operating instructions

L	Туре	Input values	Input plug	Outputs	EC60320		Order no.	UP
				Sheet F	Sheet J	Schuko		
733	DI-STRIP [®] Compact RM 8	230Vac, 16A	Schuko CEE 7/4			8	03.307.008.1	1 unit
1183	DI-STRIP [®] Compact RM 17	230Vac, 16A	Schuko CEE 7/4			17	03.307.017.1	1 unit
633	IEC320 RM9	230Vac, 16A	Schuko CEE 7/4	9			03.607.009.1	1 unit
933	IEC320 RM18	230Vac, 16A	Schuko CEE 7/4	18			03.607.018.1	1 unit
1133	DI-STRIP® TriplePower RM	230/400Vac, 16A	IEC60309 3ph/N/PE 6h	18			03.607.825.1	1 unit
1833	DI-STRIP [®] TriplePower RM	230/400Vac, 16A	IEC60309 3ph/N/PE 6h	45			03.607.845.1	1 unit
1233	DI-STRIP [®] TriplePower RM	230/400Vac, 16A	IEC60309 3ph/N/PE 6h	18	6		03.607.824.1	1 unit
1833	DI-STRIP [®] TriplePower RM	230/400Vac, 16A	IEC60309 3ph/N/PE 6h	36	6		03.607.842.1	1 unit
1111	DI-STRIP [®] PizzaPower [®] RM	230Vac, 32A	IEC60309 1ph/N/PE 6h	24			03.637.023.1	1 unit
871	DI-STRIP [®] PizzaPower [®] RM	230Vac, 32A	IEC60309 1ph/N/PE 6h	12	4		03.637.016.1	1 unit
1168	DI-STRIP [®] PizzaPower [®] RM	230Vac, 32A	IEC60309 1ph/N/PE 6h	21	4		03.637.025.1	1 unit
563	DI-STRIP® PizzaPower® RM	230/400Vac, 32A	IEC60309 3ph/N/PE 6h		6		03.637.006.1	1 unit
995	DI-STRIP [®] PizzaPower [®] RM	230/400Vac, 32A	IEC60309 3ph/N/PE 6h	6	12		03.637.018.1	1 unit
1022	DI-STRIP® PizzaPower® RM	230/400Vac, 32A	IEC60309 3ph/N/PE 6h	21			03.637.021.1	1 unit
1157	DI-STRIP® PizzaPower® RM	230/400Vac, 32A	IEC60309 3ph/N/PE 6h	18	6		03.637.024.1	1 unit
1751	DI-STRIP® PizzaPower® RM	230/400Vac, 32A	IEC60309 3ph/N/PE 6h	36	6		03.637.042.1	1 unit



Knürr DI-STRIP® M

- With big transparent LCD display
- Effective value display of alternating currents per phase (1-phase or 3-phase, depending on model) - LCD display rotation in 90° steps
- Unbalanced-load warning display with 3-phase model
- Load changes signaling
- Automatic background light reduction
- Cable: 4m H05VV—F 5 G 4mm² (PizzaPower M)
- Cable: 2.5m H05VV-F 5 G 2.5mm² (Triple-Power M)
- Cable: 2.5m H05VV-F 3G 1.5mm² (DI-STRIP Compact M, DI-STRIP IEC320 M)

Material/ Finish

- PizzaPower[®] model: Housing: Sheet steel, zinc-passivated, powdercoated
- Other models:

Housing: closed sheet steel extrusion, zincpassivated, powder-coated texture

Plastic parts: Vampamid 6 0024 VO (UL94), recyclable

Approvals/certificates

- CE label in accordance with low voltage guideline 2006/95/EWG
- EMC Directive 2004/108/EC:
- EN61326-1, EN61000-3-2, EN61000-3-3 - FCC Class B
- CSA NRTL (PizzaPower m, TriplePower M, IEC320 M)
- CB-Scheme (TriplePower M, DI-STRIP compact M, IEC320M, ampere meter GST18i)

Color

PizzaPower M model: Housing: RAL 9005 black Other models: Housing: RAL 7035 light gray Plastic parts: RAL 7021 dark gray

Supply schedule

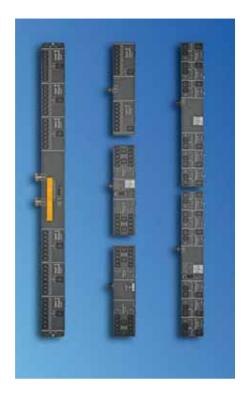
- 1 socket strip with ampere meter
- 2 mounting brackets
- 2 19" mounting brackets (with 19" installation option)

Note

- Other models (e.g. Sheet J outputs) on request

L	Туре	Input values Input plug Outputs IEC60320			Order no.	UP		
				Sheet F	Sheet J	Schuko		
483	DI-STRIP [®] PizzaPower [®] M	230Vac, 32A	IEC60309 1ph/N/PE 6h	7			03.636.007.1	1 unit
933	DI-STRIP [®] PizzaPower [®] M	230/400Vac, 32A	IEC60309 3ph/N/PE 6h	21			03.636.021.1	1 unit
1033	DI-STRIP [®] TriplePower [®] M	230/400Vac, 16A	IEC60309 3ph/N/PE 6h	21			03.606.821.1	1 unit
1833	DI-STRIP [®] TriplePower [®] M	230/400Vac, 16A	IEC60309 3ph/N/PE 6h	45			03.606.845.1	1 unit
1133	DI-STRIP [®] TriplePower [®] M	230/400Vac, 16A	IEC60309 3ph/N/PE 6h	18	6		03.606.824.1	1 unit
1733	DI-STRIP [®] TriplePower [®] M	230/400Vac, 16A	IEC60309 3ph/N/PE 6h	36	6		03.606.842.1	1 unit
483	DI-STRIP [®] Compact M	230Vac, 32A	Schuko			6	03.306.006.1	1 unit
483	DI-STRIP® IEC320 M	230Vac, 16A	Schuko	9			03.606.009.1	1 unit
233	DI-STRIP [®] Ampere meter	230Vac, 16A	GST18				03.606.200.1	1 unit

Emerson Network Power Rack PDUs



Knürr DI-STRIP®

HighPower®

The **Knürr DI-STRIP® HighPower** is a solution for every data center with high power requirements and low space in the rack. The special shape enables space-saving installation in the rack. This means free access to the servers, even with 600 mm wide racks. Maintenance of the servers (e.g. power supply changes) is possible at no further expense.

The Knürr DI-STRIP[®] product family meets the power distribution requirements of many IT applications and other areas. Specially configured for the growing number of electronic components in network switching racks of server racks. The **DI-STRIP[®] HighPower** is available with and without remote power measurement (DI-STRIP[®] HighPower RM).







Knürr DI-STRIP[®] HighPower Strong points

Flexibility

With or without remote power measurement. Easy expansion in the rack with tool-less installation. 3 m power cable for more spatial flexibility.

RM model

Current values can be read via a big transparent LCD display. Rotating display in 90° steps; the display can always be read the same regardless of the installation direction.

The power measurement module can be integrated into different management programs via different protocols (SNMP, http, Syslog).

High availability

Meets the strictest EMC requirements with radiation and irradiation interference. Robust and stable with a closed sheet steel housing. Reliable, robust solution. Extensive certification in acc. with international standard.

RM model:

Different threshold values can be flexibly specified; power values can therefore be monitored and load drops can be signaled. With 3-phase PDUs the unbalanced load can be monitored, which means the neutral conductor is protected from overloads.

Low operating costs

Especially flat housing extrusion, providing full accessibility to the 19" level with 600 mm wide server racks. Server power supply changes are very quick and easy. Quick and easy installation on the rack requires minimum space and shorter installation time.

RM model:

Automatic background light reduction extends the display's service life and reduces power loss.



DOS20153

Knürr DI-STRIP[®] HighPower

- Flat design provides access to the 19" level, even with 600 mm wide racks
- individual backup for outputs (groups with 10 A)
 Outputs divided into groups with max. 20 A per group
- Modular expansion in the rack with tool-less PDU installation

Additional function for HighPower RM type (remote metered)

- With big transparent LCD display
- Effective value display of alternating current
- LCD display rotation in 90° steps
- Display can be switched bright or dark

- Load changes signaling - Automatic background light reduction

- See DI-STRIP RM for technical description for data interface

Material/ Finish

Housing: Sheet steel, zinc-passivated, powdercoated

Dimensions

Width: 134 mm Height: 47 mm Cable: 3 m

Color

Housing: RAL 9005 black

Approvals

- CE label in accordance with low voltage guideline 2006/95/EWG
- EMC Directive 2004/108/EC
- GS

Supply schedule

- 1 socket strip (PDU)
- 1 integrated remote ampere meter (only
- HighPower RM)
- 2 mounting brackets
- Operating instructions

L	Туре	Input values	Input plug	Outputs	IEC60320		Order no.	UP
				Sheet F	Sheet J	Schuko		
540	DI-STRIP [®] HighPower	230Vac, 32A	IEC60309 1ph/N/PE 6h	20	4		03.632.100.8	1 unit
850	DI-STRIP [®] HighPower	230/400Vac, 32A	IEC60309 3ph/N/PE 6h	6	12		03.632.102.8	1 unit
540	DI-STRIP [®] HighPower RM	230Vac, 32A	IEC60309 1ph/N/PE 6h	20	4		03.632.200.8	1 unit
850	DI-STRIP [®] HighPower RM	230/400Vac, 32A	IEC60309 3ph/N/PE 6h	6	12		03.632.202.8	1 unit

Three Phase Knürr DI-STRIP®

FriplePower®

The **TriplePower** [®] name represents the performance of our latest development. The **DI-STRIP® TriplePower®** supplies network racks with three times the normal power. This requirement is generated by the increasingly higher packing densities and constantly rising energy requirements in racks, which are often caused by aptly named "Blade Servers" or 1 U "Pizza Servers", more than 40 of which can be integrated into a Knürr Miracel rack.

The **DI-STRIP® TriplePower®** uses a classic 3-phase feed with 3x16A, which it optimally distributes throughout the whole rack. The 23 U and 41 U standard lengths cover the entire rack height range of the Knürr Smaract² and Miracel rack families.

In the maximum configuration level, up to 48 users can be connected to a **DI-STRIP®** TriplePower[®] (Euro socket strip). With redundant feed, 96A can consequently be provided in a 19" rack with only two DI-STRIP® TriplePower®.



DOS201

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

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

Length

ions in mm: L

Emerson Network Power Rack PDUs



1 DOS20131



2 DOS20147

Knürr DI-STRIP® TriplePower® Strong points

Cost-Effective

Quick and easy mounting on the rack extrusion. Cost reduction in installation and wiring.

2 Supply

- 3x16A as standard - Ideal for implementing redun-
- dancy (e.g. 96 A)

3 At a glance

Phase assignment color coding (L1, L2, L3).

Installation

Optimum distribution over the entire rack height (standard: 23 U and 41 U).

Technical alternatives

- For 3-phase GST18 system (see page 2.36).



3 DOS20126



4 DOS20129



DOS20126

DI-STRIP[®] TriplePower[®] Euro Plug-In System, IEC 320 With cable

- Cable: H05VV-F 5 G 2.5 mm²
- Cable: 2.5 m (optional with IEC60309 plug, 3Ph/N/PE 6h)
- Easy mounting on the rack extrusion
- 3x16A feed as standard
- Ideal for implementing redundancy (e.g. 96 A with redundant feed)
- Unmistakable phase assignment color-coding - Optimum distribution over the entire rack
- height (23 U and 41 U) - Alternative for 3-phase GST18 system (see
- page 170)

Material/ Finish

Housing: closed sheet steel extrusion, zincpassivated, powder-coated texture Plastic parts: Vampamid 6 0024 VO (UL94), recyclable

Dimensions

Height: 45.5 mm Housing width: 44.4 mm (= 1 U)

Approvals/certificates

- CE label in accordance with low voltage guideline 2006/95/EWG
- ĒMC Directive 2004/108/EC
- CSA NRTL/C

Color

Housing: RAL 7035 light gray Plastic parts: RAL 7021 dark gray

Load rating

100-240/173-415 Vac Input: 3x 16 A Output: 10 A (Sheet F) Output: 16 A (Sheet J)

Approval symbols for IEC 320 3-way Euro combinations VDE, UR, CSA

- Supply schedule

1 socket strip 2 mounting brackets

L 👘	S	n	F1	19"	Input values	Input plug	Outputs IEC	60320		Order no.	UP
							Sheet F		Sheet J		
1033	3	24	٠		230/400Vac, 16A	IEC60309 3ph/N/PE 6h	24			03.600.024.1	🛃 1 unit
1833	3	48	٠		230/400Vac, 16A	IEC60309 3ph/N/PE 6h	48			03.600.048.1	🧕 1 unit
1033	3	24	٠		230/400Vac, 16A	Open end	24			03.600.824.1	🧕 1 unit
1833	3	48	•		230/400Vac, 16A	Open end	48			03.600.848.1	🧕 1 unit
1133	3	24	٠		230/400Vac, 16A	IEC60309 3ph/N/PE 6h	18	6		03.600.524.1	1 unit
1733	3	42	٠		230/400Vac, 16A	IEC60309 3ph/N/PE 6h	36	6		03.600.542.1	1 unit
483	3	6	٠	٠	230/400Vac, 16A	IEC60309 3ph/N/PE 6h		6		03.600.506.1	1 unit

Three Phase Knürr DI-STRIP®

BladePower® PizzaPower®

A new generation of the power distribution units of the DI-STRIP[®] range now ensures even more power: **BladePower[®]** and **PizzaPower[®]** for fail-safe power supply distribution in network racks.

Increasingly higher packing densities and therefore constantly increasing energy requirements in server racks caused by blade servers or 1 U pizza servers will now be handled electrically. Up to 35 kW dissipated heat can be removed from modern CoolTherm[®] server racks But how is the necessary power supplied into the rack, which can cause such power losses? The PDUs (3x32 A) optimally distribute the required power over the entire rack, with connection of up to 21 consumers possible in the highest configuration level. 192 A can be supplied to the rack with redundant feed.

Knürr DI-STRIP[®] Strong points

Cost-Effective

Quick and easy installation on the server rack's extrusion. Costs reduction with mounting and wiring.

Supply

- Single-phase 32 A and three-phase 32 A.
- 22 kVA
- Ideal for providing redundancy (e.g. 192 A)

Crystal clear assignment

Unmistakable phase assignment color-coding (L1, L2, L3).

Installation

Optimum distribution of blade center and pizza server supply with easy power distribution unit (PDU) installation.

Availability

Prevention of "Single Point of Failure" with individual fusing.

- CE label in accordance with low voltage

1 19" mounting bracket (additional with



Approvals

- Innova GS

Load rating



guideline 2006/95/EWG

100-240 / 173-415 Vac

Input: 1x32 A or 3x32 A

Output: 10 A / 16 A

Supply schedule

1 socket strip (PDU)

2 mounting brackets

Operating instructions

19" installation option)

- EMC Directive 2004/108/EC

- CSA NRTL/C (only without plug)



DOS20153



DOS20155



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

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

Knürr DI-STRIP[®] BladePower[®] Technical data

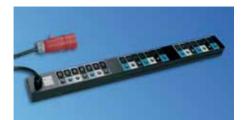
- EC 320 sockets (10 A and 16 A). - Individually fused via thermal circuit breaker
- that can be reset in acc. with IEC 60934
- Cable: H05VV-F 5 G 4 mm² - Cable: 4 m
- With IEC60309 plug, 1Ph/N/PE 6h blue, 3Ph/N/PE 6h red
- Material/ Finish

Housing: Sheet steel, zinc passivated, powdercoated

- Dimensions
 - Height: approx. 60 mm Housing width: 84 mm
- Color

Housing: RAL 9005 black

19" Model Plug Order no. UP L n F1 03.630.005.1 🤡 1 unit BladePower® PDU 1x 32 A 375 5 . . 03.630.015.1 🤕 1 unit 740 BladePower[®] PDU 3x 32 A 15 • BladePower® PDU 1x 32 A 375 5 • • 03.630.805.1 1 unit 740 15 BladePower® PDU 3x 32 A 03.630.815.1 1 unit





DOS20159

Knürr DI-STRIP[®] PizzaPower[®] Technical data

- Individually fused via thermal circuit breaker that can be reset in acc. with IEC 60934
- Cable: H05VV-F 5 G 4 mm²
- Cable: 4 m
- With IEC60309 plug, 1Ph/N/PE 6h blue, 3Ph/N/PE 6h red

Material/ Finish

Housing: Sheet steel, zinc passivated, powdercoated

Dimensions

Height: approx. 60 mm Housing width: 84 mm Height with cable: approx. 176 mm

- Color
 - Housing: RAL 9005 black

Approvals

- ČE label in accordance with low voltage guideline 2006/95/EWG
- EMC Directive 2004/108/EC
- Innova GS
- CSA NRTL/C (only without plug)

Load rating

100-240 / 173-415 Vac Input: 1x32 A or 3x32 A Output: 10 A (Sheet F) Output: 16 A (Sheet J)

Supply schedule

- 1 socket strip (PDU)
- 2 mounting brackets
- 1 19" mounting bracket
- (additional with 19 installation option) Operating instructions

Input values Input plug Outputs IEC60320 Order no. UP F1 19 n Sheet F Sheet J IEC60309 1ph/N/PE 6h 230Vac, 32A 03.631.007.1 400 7 • 7 1 unit 400 7 • 230Vac. 32A Open end 7 03.631.807.1 1 unit IEC60309 1ph/N/PE 6h 03.631.124.1 720 16 230Vac. 32A 12 4 1 unit • • IEC60309 1ph/N/PE 6h 960 24 230Vac. 32A 24 03.631.240.1 1 unit 1017 IEC60309 1ph/N/PE 6h 21 03.631.214.1 25 • 230Vac. 32A 4 1 unit 230/400Vac, 32A • IEC60309 3ph/N/PE 6h 03.631.021.1 933 21 21 1 unit 933 21 230/400Vac. 32A Open end 03 631 821 1 . 71 1 unit • 230/400Vac, 32A IEC60309 3ph/N/PE 6h 408 6 6 03.631.006.1 1 unit Q 939 21 . 230/400Vac. 32A IEC60309 3ph/N/PE 6h 12 03.631.912.1 1 unit 1362 36 • 230/400Vac. 32A IEC60309 3ph/N/PE 6h 36 03.631.360.1 1 unit 1002 74 230/400Vac, 32A IEC60309 3ph/N/PE 6h 18 6 03.631.186.1 1 unit



Knürr DI-STRIP[®] Classic Standard DIN 49 440

- Optionally with lit switch, 2-pole switching
- Socket rotation: 45°
- Cable: H05VV-F 3G 1.5 mm²
 Optionally with Euro plug, IEC320 for UPS application
- Material/ Finish

Housing: closed sheet steel extrusion, zincpassivated, powder-coated texture Plastic parts: Vampamid 6 0024 VO (UL94) Internal conductor: full-length busbar, brass

Dimensions

Socket spacing: 24 mm 100 mm Height: 45.5 mm Housing width: 44.4 mm (= 1 U) Cable 2.5 m

- Approvals/certificates
 - CE label in accordance with low voltage guideline 2006/95/EWG
 - EMC Directive 2004/108/EC
 - Innova-GS
 - CB-scheme
 - VDE

Color

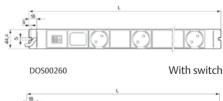
RAL 7035 light gray

- Load rating 100-240 Vac/16 A
 - Supply schedule
 - 1 socket strip 2 mounting brackets

19" Model Order no. Safe UP n **F1** F2 1783 17 . 03.300.067.1 1 unit 1383 03.300.063.1 13 . 1 unit 03.300.059.1 983 9 . 1 unit 583 5 . 03.300.055.1 1 unit 1733 16 . With switch 03.302.066.1 . 1 unit 1333 12 • With switch 03.302.062.1 1 unit 933 8 With switch 03.302.058.1 . • 1 unit With switch 03.302.054.1 533 • 4 • 1 unit



DOS00261



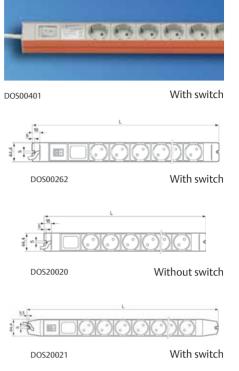


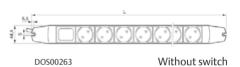






Replace x: with the number of your color combination: .1 = RAL 7035, .6 = RAL 7035/RAL 2003





Knürr DI-STRIP[®] Compact Standard DIN 49 440

- 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
- Molded right angle plug
- Optionally with Euro plug, IEC320 for UPS applications

Material/ Finish

Housing: closed sheet steel extrusion, zincpassivated, powder-coated texture Plastic parts: Vampamid 6 0024 VO (UL94), recyclable

Internal conductor: full-length busbar, brass

Dimensions

Socket spacing: 24 mm 50 mm Height: 45.5 mm Housing width: 44.4 mm (= 1 U) Cable 2.5 m

Approvals/certificates

- CE label in accordance with low voltage guideline 2006/95/EWG
- EMC Directive 2004/108/EC
- Innova-GS - CB-scheme
- VDE

Color combination

Final digit of order number .1: RAL 7035 light gray Final digit of order number .6: Housing: RAL 2003 pastel orange Plastic parts: RAL 7035 light gray

Load rating 100-240 Vac/16 A

Supply schedule

1 socket strip 2 mounting brackets

L	S	n	F1	F2	19"	Safe	Model	Order no.	UP
883		15	٠					03.300.015.x	🛃 1 unit
732		11		٠				03.300.111.x	1 unit
683		11	٠					03.300.011.x	🥑 1 unit
532		7		٠		•		03.301.107.x	1 unit
532		7		٠				03.300.107.x	1 unit
483		7	•		•			03.300.007.x	🥑 1 unit
483		8	٠		٠			03.300.008.1	🛃 1 unit
382		4		٠		•		03.301.104.x	1 unit
382		4		٠				03.300.104.x	1 unit
333		4	•					03.300.004.x	🔮 1 unit
883	٠	14	٠				With switch	03.302.014.x	🛃 1 unit
732	٠	10		٠			With switch	03.302.110.x	1 unit
683	٠	10	٠				With switch	03.302.010.x	🔮 1 unit
532	٠	6		٠		•	With switch	03.303.106.x	1 unit
532	٠	6		٠			With switch	03.302.106.x	🔮 1 unit
483	٠	6	٠		•		With switch	03.302.006.x	😉 1 unit
483		7	٠		٠		With switch	03.302.007.1	🛃 1 unit
382	•	3		•		•	With switch	03.303.103.x	1 unit
382	٠	3		٠			With switch	03.302.103.x	1 unit
333	٠	3	٠				With switch	03.302.003.x	🛃 1 unit

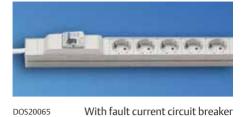
Knürr DI-STRIP[®] Compact UPS Standard DIN 49 440

L	S	n	F1	19"	Input values		Outputs Schuko CEE7/4	Order no.	UP
483		8	٠	٠	230Vac, 10A	ICE60320 Sheet E	8	03.300.308.1	1 unit
483		8	•	•	230Vac, 16A	ICE60320 Sheet I	8	03.300.408.1	1 unit

Dimensions in mm: L = Length U = standard height unit S = Switch UP = Unit of packaging n = Number of sockets F1 = Standard side F2 = Design side 19" = Suitable for 19" installation Safe= (Child-safe,

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

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



5

With fault current circuit breaker DOS00264

Knürr DI-STRIP[®] Protector FI Standard DIN 49 440

Protector FI

RCCB for user protection

- Protection with indirect contact as error protection by switching off with inadmissible high contact voltage through contact with electrical equipment

- Protection with direct contact as back-up protection
- Residual operating current Ig = 10 mA for alternating and pulsating direct fault current
- 19" installation option (with length 483 mm)
- Socket rotation: 45°
- Cable: H05VV-F 3G 1.5 mm² - Molded right angle plug

Material/ Finish

Housing: closed sheet steel extrusion, zincpassivated, powder-coated texture Plastic parts: Vampamid 6 0024 VO (UL94), recyclable

Internal conductor: full-length busbar, brass

Dimensions

Socket spacing: 24 mm 50 mm Height: 78 mm Housing width: 44.4 mm (= 1 U)Cable 2.5 m

Approvals/certificates

- CE label in accordance with low voltage guideline 2006/95/EWG

- EMC Directive 2004/108/EC
- Innova-GS
- CB-scheme

Color combination

Final digit of order number .1: RAL 7035 light gray Plastic parts: RAL 7035 light gray

Load rating

100-240 Vac/16 A

Supply schedule

1 socket strip 2 mounting brackets

L	S	n	F1	F2	19"	Safe	Model	Order no.	UP
883		13	٠					03.304.013.1	🛃 1 unit
683		9	٠					03.304.009.1	1 unit
483		5	•		•			03.304.005.1	🛃 1 unit



DOS00692

With circuit breaker



Knürr DI-STRIP® Protector LS Standard DIN 49 440

Protector circuit breaker

- Circuit breaker for overload and short circuit - Protects cables and feeds with rapid switching off with short circuit and defined
- delayed cutoff with overload - Circuit breaker: 16 A
- Tripping characteristic, type B, 2-pole - 19" installation option (with length 483 mm)
- Socket rotation: 45°
- Cable: H05VV-F 3G 1.5 mm²
- Molded right angle plug

Material/ Finish

Housing: closed sheet steel extrusion, zincpassivated, powder-coated texture Plastic parts: Vampamid 6 0024 VO (UL94), recyclable

Internal conductor: full-length busbar, brass

Dimensions

Socket spacing: 24 mm 50 mm Height: 78 mm Housing width: 44.4 mm (= 1 U)Cable 2.5 m

Approvals/certificates

- CE label in accordance with low voltage quideline 2006/95/EWG
- EMC Directive 2004/108/EC
- Innova-GS
- CB-scheme - VDE

Color combination

Final digit of order number .1: RAL 7035 light gray Plastic parts: RAL 7035 light gray

Load rating 100-240 Vac/16 A

Supply schedule

1 socket strip 2 mounting brackets

L	S	n	F1	F2	19"	Safe	Model	Order no.	UP	
883		13	٠						03.308.013.1	1 unit
683		9	٠						03.308.009.1	🛃 1 unit
483		5	٠		٠				03.308.005.1	🛃 1 unit

Dimensions in mm: L = Length S = Switch n = Number of sockets

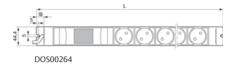
- F1 = Standard side
- F2 = Design side 19" = Suitable for 19" installation Safe= Child-safe,

U = standard height unit UP = Unit of packaging

😸 = Express item

1 mm = 0.03937 inch 1 kg = 2.2046 pound Conversion: Replace **.x** with the number of your color combination: **.1** = RAL 7035, **.6** = RAL 7035/RAL 2003





Knürr DI-STRIP[®] Protector FI / LS Standard DIN 49 440

Protector FI / LS

- Fault current switch and circuit breaker - Provides a combination of user, overload and short circuit protection
- Residual operating current I**g** = 30 mA for
- alternating and pulsating direct fault current
- Circuit breaker: 16 A
- Tripping characteristic, type B, 2-pole
- 19" installation option (with length 483 mm)
- Socket rotation: 45°
- Cable: H05VV-F 3G 1.5 mm²
- Molded right angle plug

Material/ Finish

Housing: closed sheet steel extrusion, zincpassivated, powder-coated texture Plastic parts: Vampamid 6 0024 VO (UL94), recyclable

Internal conductor: full-length busbar, brass

Dimensions

Socket spacing: 24 mm 50 mm Height: 78 mm Housing width: 44.4 mm (= 1 U)Cable 2.5 m

Approvals/certificates

- CE label in accordance with low voltage guideline 2006/95/EWG

- EMC Directive 2004/108/EC
- Innova-GS
- CB-scheme

Color combination

Final digit of order number .1: RAL 7035 light gray Plastic parts: RAL 7035 light gray

Load rating

100-240 Vac/16 A

Supply schedule

1 socket strip 2 mounting brackets

L	S	n	F1	F2	19"	Safe	Model	Order no.	UP
883		13	٠					03.310.013.1	
683		9	•					03.310.009.1 🔮	🚽 1 unit
483		5	٠		٠			03.310.005.1 🍯	🚽 1 unit

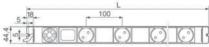


DOS20059

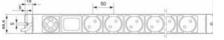
DOS00486

DOS00487

ions in mm:







Protector with emergency stop switch

U = standard height unit UP = Unit of packaging

属 = Express item



- With 2-pole emergency stop switch for user protection
- For protecting operating personnel
- For manual emergency switching off of the connected consumers
- Phase and neutral conductors are safely separated
- Switch must be specifically unlocked to restart
- 19" installation option (with length 483 mm) - Socket rotation: 45°
- Cable: H05VV-F 3G 1.5 mm²
- Molded right angle plug

Material/ Finish

Housing: closed sheet steel extrusion, zincpassivated, powder-coated texture Plastic parts: Vampamid 6 0024 VO (UL94), recyclable

Internal conductor: full-length busbar, brass

Dimensions

Socket spacing: 24 mm Classic: 100 mm, Compact: 50 mm

Height: 101 mm Housing width: 44.4 mm (= 1 U) Cable 2.5 m

Approvals/ certificates

- CE label in accordance with low voltage quideline 2006/95/EWG
- EMC Directive 2004/108/EC
- Innova-GS
- CB-scheme
- VDE

Color combinations

Final digit of order number .1: RAL 7035 light gray Plastic parts: RAL 7035 light gray

Load rating 100-240 Vac/16 A

Supply schedule

1 socket strip 2 mounting brackets

L S	n	F1	F2	19"	Safe	Model	Order no.	UP
683	10	٠				Compact	03.326.010.1	1 unit
483	6	•		٠		Compact	03.326.006.1	1 unit
1333	12	•				Classic	03.326.062.1	1 unit
933	8	٠				Classic	03.326.058.1	1 unit

1 mm= 0.03937 inch 1 kg = 2.2046 pound Conversion: Replace **.x** with the number of your color combination: **.1** = RAL 7035, **.6** = RAL 7035/RAL 2003

F2 = Design side 19" = Suitable for 19" installation Safe= Child-safe,

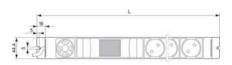
Lengt

S = Switch n = Number of sockets F1 = Standard side





DO\$00456



DOS00488

Knürr DI-STRIP[®] Protector Emergency Stop FI / LS Standard DIN 49 440

- With 2-pole emergency stop switch for user protection
- For protecting operating personnel
- For manual emergency switching off of the
- connected consumers - Phase and neutral conductors are safely sepa-
- rated
- Switch must be specifically unlocked to restart
- Socket rotation: 45° - Cable: H05VV-F 3G 1.5 mm²
- Molded right angle plug

Material/ Finish

Housing: closed sheet steel extrusion, zincpassivated, powder-coated texture Plastic parts: Vampamid 6 0024 VO (UL94), recyclable

Internal conductor: full-length busbar, brass

Dimensions

Socket spacing: 24 mm Compact: 50 mm Height: 101 mm Housing width: 44.4 mm (= 1 U) Cable 2.5 m

Approvals/certificates

- CE label in accordance with low voltage quideline 2006/95/EWG

- EMC Directive 2004/108/EC
- Innova-GS
- CB-scheme

Color combinations

Final digit of order number .1: RAL 7035 light gray Plastic parts: RAL 7035 light gray

Additionally:

With 2-pole fault current switch and circuit breaker Provides a combination of user, overload and short circuit protection

Load rating

100-240Vac/16 A

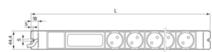
Supply schedule

1 socket strip 2 mounting brackets

L	S	n	F1	F2	19"	Safe	Model	Order no.	UP
683		8	٠					03.328.008.1	1 unit



DOS20061



DOS00266

Knürr DI-STRIP[®] Power Cleaner Standard DIN 49 440

- High-frequency glitches are generally caused by switching processes in an operation from 100 kHz to 5MHz. This high-frequency rate overloads the mains frequency and affects adjacent electronic equipment. The mains filter attenuates this high-frequency rate.
- The attenuation behavior is harmonized with the typical interference spectrum.
- The mains filter works in both directions. This means that glitches from the equipment to the socket strip are also filtered from the mains.
- 19" installation option (with length 483 mm)
- Socket rotation: 45°
- Cable: H05VV-F 3G 1.5 mm²
- Molded right angle plug

Material/ Finish

passivated, powder-coated texture Plastic parts: Vampamid 6 0024 VO (UL94), recvclable

Approvals/certificates

- CE label in accordance with low voltage guideline 2006/95/EWG
- EMC Directive 2004/108/EC
- Innova-GS
- CB-scheme

Color combination

Final digit of order number .1: RAL 7035 light gray Final digit of order number .6: Housing: RAL 2003 pastel orange Plastic parts: RAL 7035 light gray

Technical data

Nominal voltage: max. 250 Vac, 50 Hz Nominal current: max. 16 A Filter in acc. with VDE 0565-3 (EN 60939-1)

Supply schedule

1 socket strip

- 2 mounting brackets 2 19" mounting bracket (additional with
 - 19" installation option)

U = standard height unit UP = Unit of packaging Length Dimensions in mm: L S = Switch n = Number of sockets F1 = Standard side = Express item F2 = Design side 19"= Suitable for 19" installation Safe= Child-safe,

1 mm = 0.03937 inch 1 kg = 2.2046 pound Conversion: Replace **.x** with the number of your color combination: **.1** = RAL 7035, **.6** = RAL 7035/RAL 2003

L	S	n	F1	F2	19"	Safe	Model	Order no.	UP
883		13	٠					03.312.013.x	1 unit
683		9	•					03.312.009.x	1 unit
483		5	٠		٠			03.312.005.x 🦉	1 unit

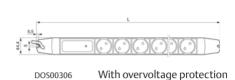
Housing: closed sheet steel extrusion, zinc-

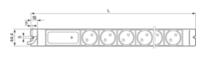
Internal conductor: full-length busbar, brass

Dimensions

Socket spacing: 24 mm 50 mm Height: 45.5 mm Housing width: 44.4 mm (= 1 U) Cable 2.5 m







DOS00270 With overvoltage protection

Knürr DI-STRIP[®] Safety Basic Standard DIN 49 440

 For protecting against transient overvoltages from the mains, which, for example, are caused by switching machines on and off.
 With critical overvoltages the mains is separated.

- Once the safety arrester has been triggered the green function display goes out.

- The socket strip can then no longer be used. Send the socket strip to the manufacturer for the safety arrester to be replaced! The safety effect of the type 3 test category and requirements category "D" is to protect the equipment, i.e. precision protection. The protection devices of the test and requirements categories 1 and 2 and B and C must be pre-connected in the building installation to ensure optimum protection.

- 19" installation option (with length 483 mm) - Socket rotation: 45°
- Cable: H05VV-F 3G 1.5 mm²
- Molded right angle plug

Material/ Finish

Housing: closed sheet steel extrusion, zincpassivated, powder-coated texture Plastic parts: Vampamid 6 0024 VO (UL94), recyclable

Internal conductor: full-length busbar, brass

Dimensions

Socket spacing: 24 mm 50 mm Height: 45.5 mm Housing width: 44.4 mm (= 1 U)

Approvals/certificates

- CE label in accordance with low voltage guideline 2006/95/EWG
- EMC Directive 2004/108/EC
- Innova-GS - CB-scheme

Color combination

Final digit of order number .1: RAL 7035 light gray Final digit of order number .6: Housing: RAL 2003 pastel orange Plastic parts: RAL 7035 light gray

Technical data

Test category: Type 3 - In acc. with DIN EN 61643-11 Requirements class: D - In acc. with VDE 0675-6 Mains voltage: 230 VAC Nominal current: max. 16 A Cut-off discharge current (8/20 µs): 10 kA Response time: <25 ns Protection level (with 100 A varistor peak current): - L with respect to N: <800 V - L/N with respect to PE: <1500 V

Supply schedule

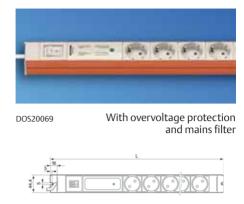
1 socket strip 2 mounting brackets

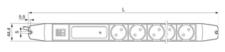
L	S	n	F1	F2	19"	Safe	Model	Order no.	UP
732		10		٠				03.316.110.1	1 unit
683		10	•					03.316.010.x 🕴	🛃 1 unit
532		6		٠		•		03.317.106.1	1 unit
532		6		٠				03.316.106.1	1 unit
483		6	٠		٠			03.316.006.x	🛃 1 unit
432		4		•		•		03.317.104.1	1 unit
432		4		٠				03.316.104.1	1 unit
383		4	٠					03.316.004.1	1 unit

Dimensions in mm: L = Length U = standard height unit S = Switch UP = Unit of packaging n = Number of sockets F1 = Standard side F2 = Design side 19" = Suitable for 19" installation Safe= Child-safe,

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

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





With overvoltage protection

and mains filter

DOS00271

Knürr DI-STRIP® Safety Standard Standard DIN 49 440

- The "Safety Standard" models consist of a combined overvoltage protection/mains filter element.
- For protecting against transient overvoltages from the mains, which, for example, are caused by switching machines on and off.
- With critical overvoltages the mains is separated. - Once the safety arrester has been triggered the green function display goes out. The socket strip can then no longer be used. Send the socket strip to the manufacturer for the safety arrester to be replaced!
- The safety effect of the type 3 test category and requirements category "D" is to protect the equipment, i.e. precision protection. The protection devices of the test and requirements categories 1 and 2 and B and C must be preconnected in the building installation to ensure optimum protection.
- High-frequency glitches are generally caused by switching processes in an operation from 100 kHz to 5MHz.
- This high-frequency rate overloads the mains frequency and affects adjacent electronic equipment. The mains filter attenuates this high-frequency rate.
- The attenuation behavior is harmonized with the typical interference spectrum.
- 19" installation option (with length 483 mm) - Socket rotation: 45°
- Cable: H05VV-F 3G 1.5 mm²
- Molded right angle plug

Material/ Finish

Housing: closed sheet steel extrusion, zincpassivated, powder-coated texture Plastic parts: Vampamid 6 0024 VO (UL94), recyclable

Internal conductor: full-length busbar, brass

Dimensions

Socket spacing: 24 mm 50 mm Height: 45.5 mm Housing width: 44.4 mm (= 1 U) Cable 2.5 m

Approvals/certificates

- CE label in accordance with low voltage guideline 2006/95/EWG
- EMC Directive 2004/108/EC
- Innova-GS
- CB-scheme

Color combination

Final digit of order number .1: RAL 7035 light gray Final digit of order number .6: Housing: RAL 2003 pastel orange Plastic parts: RAL 7035 light gray

Technical data

Mains voltage: 230 VAC Nominal current: max. 16 A Cut-off discharge current (8/20 µs): 10 kA Response time: < 25 ns Protection level (with 100 A varistor peak current): - L with respect to N: < 800 V - L/N with respect to PE: < 1500 V Overvoltage protection - Test category: Type 3 in acc. with DIN EN61643-11 - Feature class: D

- In acc. with VDE 0675-6
- Mains filter
- In acc. with VDE 0565 (EN 60939)

Supply schedule

1 socket strip 2 mounting brackets

L	S	n	F1	F2	19"	Safe	Model	Order no.	UP
883	٠	13	٠				With switch	03.318.013.x	1 unit
732	٠	9		•		•	With switch	03.319.109.x	1 unit
732	٠	9		٠			With switch	03.318.109.x	1 unit
683	٠	9	•				With switch	03.318.009.x 🕻	🛃 1 unit
532	٠	5		٠		•	With switch	03.319.105.x	1 unit
532	•	5		•			With switch	03.318.105.x	1 unit
483	٠	5	٠		٠		With switch	03.318.005.x 👔	🛃 1 unit

Dimensions in mm: L = Length

- S = Switch
- S = Switch n = Number of sockets F1 = Standard side F2 = Design side 19" = Suitable for 19" installation Safe= Child-safe,

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

= standard height unit

UP = Unit of packaging

= Express item





With master-slave module

DOS00268

Knürr DI-STRIP[®] Master Slave Standard DIN 49 440

 If the master equipment is switched, the slave sockets are also switched (together, with a short delay to the master). This means convenient switching on and off of several hard to access devices. Switching thresholds can be set from outside via potentiometer.
 Note:

- The master equipment power consumption must be continuously above the switchingon threshold. When switching off the master equipment, the power consumption must fall below the switching-off threshold.
- 19" installation option (with length 483 mm) - Socket rotation: 45°
- Cable: H05VV-F 3G 1.5 mm²
- Molded right angle plug

Material/ Finish

Housing: closed sheet steel extrusion, zincpassivated, powder-coated texture Plastic parts: Vampamid 6 0024 VO (UL94), recyclable Internal conductor: full-length busbar, brass

5

Dimensions Socket spacing: 24 mm 50 mm Height: 45.5 mm Housing width: 44.4 mm (= 1 U) Cable 2.5 m

Approvals/certificates

- CE label in accordance with low voltage guideline 2006/95/EWG

- EMC Directive 2004/108/EC
- Innova-GS - CB-scheme

Color combinatio

Color combination Final digit of order number .1: RAL 7035 light gray Plastic parts: RAL 7035 light gray

Load rating

Max. 250 Vac/16 A

Technical data

Switching threshold setting range On: 20 mA - 200 mA (approx. 55 mA delivery status) Off: 16 mA - 160 mA (approx. 44 mA delivery status) Switching delay: 550 ms +/- 20 % Electronic module: 2-pole switching

Supply schedule

1 socket strip 2 mounting brackets

L	S	n	F1	F2	19"	Safe	Model	Order no.	UP
683		9	٠					03.314.009.1	1 unit
483		5	٠		٠			03.314.005.1 🔮	1 unit

Dimensions in mm: L = Length U = standard height unit S = Switch UP = Unit of packaging n = Number of sockets F1 = Standard side F2 = Design side 19^o = Suitable for 19^o installation Safe = Child-safe,

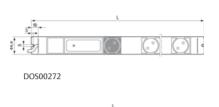
 Conversion:
 1 mm = 0.03937 inch
 1 kg = 2.2046 pound

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



DOS00325 With master-slave overvoltage

protection and mains filter





DOS00273 With master-slave overvoltage protection and mains filter

Knürr DI-STRIP® Combi Standard DIN 49 440

- Master-slave with overvoltage protection and mains filter
- Automatic consumer switching
- Combines Master Slave
- (page 7.16) and Safety Standard functions (Page 7.15)
- Socket rotation: 45°
- Cable: H05VV-F 3G 1.5 mm²
- Molded right angle plug

Material/ Finish

Housing: closed sheet steel extrusion, zincpassivated, powder-coated texture Plastic parts: Vampamid 6 0024 VO (UL94), recyclable Internal conductor: full-length busbar, brass

Dimensions

Socket spacing: 24 mm 50 mm Height: 45.5 mm Housing width: 44.4 mm (= 1 U) Cable 2.5 m

Approvals/certificates

- CE label in accordance with low voltage guideline 2006/95/EWG - EMC Directive 2004/108/EC

- Innova-GS
- CB-scheme

Color combination

Final digit of order number .1: RAL 7035 light gray Plastic parts: RAL 7035 light gray

Technical data

Overvoltage protection and mains filter: Mains voltage: max. 250 Vac Nominal current: 16 A Requirements class: D (precision protection in acc. with VDE 0675) Surge current resistance $(8/20 \,\mu s \, wave)$: max. 10 kA Protection level (1.5/50 µs wave): < 1500 V (L + N against PE) Master-slave function: Switching threshold setting range On: 20 mA - 200 mA (approx. 55 mA delivery status) Off: 16 mA - 160 mA (approx. 44 mA delivery status) Switching delay: 550 ms +/- 20 % Electronic module: 2-pole switching

Supply schedule

1 socket strip 2 mounting brackets

L	S	n	F1	F2	19"	Safe	Model	Order no.	UP
782		9		٠				03.320.109.1	1 unit
733		9	•					03.320.009.1	1 unit
582		5		٠		•		03.321.105.1	1 unit
582		5		•				03.320.105.1	1 unit
533		5	٠					03.320.005.1	🥑 1 unit

ions in mm:

- L = Length S = Switch n = Number of sockets F1 = Standard side F2 = Design side 19" = Suitable for 19" installation
- Safe= Child-safe,

1 mm = 0.03937 inch 1 kg = 2.2046 pound Conversion: Replace **.x** with the number of your color combination: **.1** = RAL 7035, **.6** = RAL 7035/RAL 2003

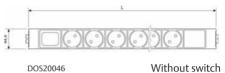
U = standard height unit UP = Unit of packaging

e Express item









DOS20046

Knürr DI-STRIP[®] GST18 Plug System (Wieland) Compact Standard DIN 49 440

- Quick and efficient plug connection system - Plug-in electro-installation in place of conventional wiring
- Speed:
- With easy pre-configured element plugging together
- Flexibility: - With cable (cable length)
- Rational:
- Easy socket strip swap-out, without costly cabling
- Safety:
- Faulty installations are ruled out with plug system
- Space-saving:
- Use of protection and switching functions can be extended with further cabling without and plug space loss (max. load rating 16 A)

Material/ Finish

Housing: closed sheet steel extrusion, zincpassivated, powder-coated texture Plastic parts: Vampamid 6 0024 VO (UL94), recyclable

Internal conductor: full-length busbar, brass

Dimensions

Socket spacing: 24 mm 50 mm Height: 45.5 mm Housing width: 44.4 mm (= 1 U)

Approvals/certificates

- CE label in accordance with low voltage guideline 2006/95/EWG
- EMC Directive 2004/108/EC
- Innova-GS
- CB-scheme
- VDE

Color combination

Final digit of order number .1: RAL 7035 light grav Plastic parts: RAL 7035 light gray

Load rating 100-240 Vac/16 A

Supply schedule

1 socket strip 2 mounting brackets

L	S	n	F1	F2	19"	Safe	Model	Order no.	UP
583	٠	6	٠				With switch	03.302.206.1	1 unit
433	٠	3	٠				With switch	03.302.203.1	1 unit
533		7	٠					03.300.207.1 🦉	
383		4	٠					03.300.204.1 🧕	1 unit



Knürr DI-STRIP® Safety Basic with GST18 plug system

- With overvoltage protection

- Technical description, see page 164

L	S	n	F1	F2	19"	Safe	Model	Order no.	UP
433		4						03.316.204.1	1 unit



DOS20073

Knürr DI-STRIP[®] Safety Standard with GST18 plug system

- With overvoltage protection, with integrated mains filter
- and lit switch
- Technical description, see page 165

L	S	n	F1	F2	19"	Safe	Model	Order no.	UP
583		5						03.318.205.1	1 unit



Knürr DI-STRIP® Master Slave with GST18 plug system

- Technical description, see page 166

L	S	n	F1	F2	19"	Safe	Model	Order no.	UP
533		5						03.314.205.1	1 unit





DOS20107

Input



DOS20106



Knürr DI-STRIP[®] Euro Socket System, IEC 320 with GST18 plug system

- With 3-way Euro combinations of IEC 320 sockets - Without fusing

Material/ Finish

Housing: closed sheet steel extrusion, zincpassivated, powder-coated texture Plastic parts: Vampamid 6 0024 VO (UL94), recyclable

Dimensions

Socket spacing: 24 mm 24 mm Height: 45.5 mm Housing width: 44.4 mm (= 1 U)

Approvals/certificates

- CE label in accordance with low voltage guideline 2006/95/EWG

- EMC Directive 2004/108/EC
- Innova-GS
- CSA NRTL/C
- CB-scheme

Color

Housing: RAL 7035 light gray Plastic parts: RAL 7021 dark gray

Load rating 100-240 Vac/10 A

> Approval symbols for IEC 320 3-way Euro combinations VDE, UR, CSA

Supply schedule 1 socket strip 2 mounting brackets

L	S	n	F1	F2	19"	Safe	Model	Order no.	UP
383		6	٠					03.600.206.1	1 unit



Knürr DI-STRIP[®] Safety Basic Euro Socket System IEC 320 with GST18 plug system

- With overvoltage protection

- Technical description, see page 164

L	S	n	F1	F2	19"	Safe	Model	Order no.	UP
483		6						03.616.206.1	1 unit

DOS20110



DOS20109



DOS20108



U = standard height unit UP = Unit of packaging 🛃 = Express item

 Conversion:
 1 mm = 0.03937 inch
 1 kg

 Replace .x with the number of your color combination:
 .1 = RAL 7035, .6 = RAL 7035/RAL 2003
 1 mm = 0.03937 inch 1 kg = 2.2046 pound

Safe= Child-safe,

Knürr DI-STRIP® Safety Standard with GST18 plug system

- With overvoltage protection with integrated

mains filter

- Technical description, see page 165

483 6		03.618.206.1 1 unit

Knürr DI-STRIP® Power Cleaner with GST18 plug system

- Technical description, see page 163

L	S	n	F1	F2	19"	Safe	Model	Order no.	UP
483		6						03.612.206.1	1 unit



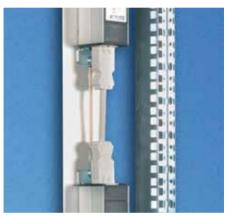


3 DOS20142

3-phase in rack with GST18 <u>Strong points</u>



2 DOS20132



3 DOS20135

1 Requirement

Constantly increasing energy requirements in the rack caused by high packing densities (e.g. 1 U Pizza Servers, Blade Servers, etc.)

2 Solution

3-phase distributor with GST18 plug system, e.g. 96 A and more with redundant feed

3 Benefits

- Modularity
- Plug-in capability (no wiring required)
- Expandability
- Cascadability
- Easy provision of redundancies / UPS secured circuits
- Combination of DIN Schuko and IEC320, for example
- Installation position freely selectable
- Good alternative for 3-phase DI-STRIP Triple Power (see page 156)



DOS20104

3	DOS20135	

Power Supply Cable, 3-Phase Accessories for GST 18 plug system

L	S	n	F1	F2	19"	Safe	Model	Order no.	UP
2000	1							04.000.048.0	1 unit

Company of the second	GST18i5 Distributor Block, 3-phase	
	 For individual connection at the customer Modular plug-in connection 3 phase distribution on various socket strips Including mounting panel 	
	L S n F1 F2 19" Safe Model O	rder no. UP
	04	4.000.038.9 1 unit

DOS20103



Power Supply Cable, 1-Phase Accessories for GST 18 plug system

- Mains plug CEE/VII - GST18 socket (Wieland) - Cable - H05VV-F3G 1.5 mm²

F1 F2 19" Safe

Color White

Mo

del	Order no.	UP
	04.000.040.0	1 unit
	04.000.041.0	1 unit

DOS00467



DOS00469



DOS20105

Connection Cable
Accessories for GST 18

- GST 18 plug

- GST 18 plug

L

2000

5000

s

n

- Cable - H05VV-F3G 1.5 mm²

Color For color coding circuits (e.g.UPS)

L	S	n	F1	F2	19"	Safe	Model	Order no.	UP
200							White	04.000.042.0	1 unit
200							Black	04.000.042.9	1 unit
500							White	04.000.037.0	1 unit
500							Black	04.000.037.9	1 unit
1000							White	04.000.044.0	1 unit
1000							Black	04.000.044.9	1 unit
5000							White	04.000.045.0	1 unit

plug system

A.C.
102020

DOS00471

The second second	-
-	-

GST18 Socket Part

n

S

With screw terminal for cross-section 1.5-2.5 mm² with cable strain relief

F2

19" Safe

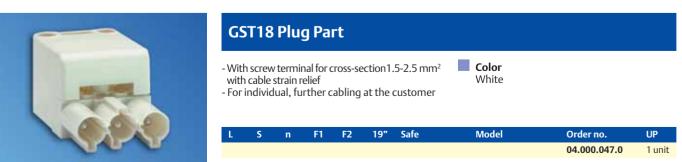
For individual connection at the customer

F1

Color White

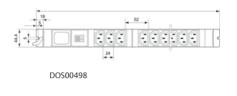
Model

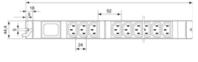
it



DOS00470







DOS20042

Knürr DI-STRIP[®] Euro Socket System, IEC 320 With cable and right angle plug

- Optionally with lit switch, 2-pole switching - 19" installation option
- With Euro combinations of IEC 320 sockets Sheet F and Sheet J
- Cable: H05VV-F 3G 1.5 mm²
- Cable: 2.5 m - Without fusing
- Whenbachashing
- Material/Finish
 - Housing: closed sheet steel extrusion, zincpassivated, powder-coated texture Plastic parts: Vampamid 6 0024 VO (UL94), recyclable

Dimensions

Height: 45.5 mm Housing width: 44.4 mm (= 1 U)

Approvals/certificates

- ČE label in accordance with low voltage guideline 2006/95/EWG - EMC Directive 2004/108/EC

- EMC Directive
- CB-scheme

Color

Housing: RAL 7035 light gray Plastic parts: RAL 7021 dark gray

- Load rating 250 Vac/10 A, Sheet F 250 Vac/16 A, Sheet J
- Approval symbols for IEC 320 3-way Euro combinations VDE, UR, CSA

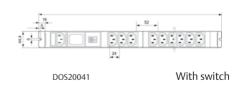
Supply schedule

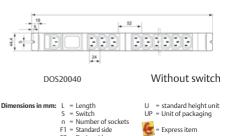
1 socket strip 2 mounting brackets

L	S	n	F1	19"	Input values	Input plug	Outputs Sheet FSheet	Order no.	UP
333		6	٠		230Vac, 16A	Schuko CEE7	6	03.600.006.1	🛃 1 unit
483	٠	9	٠	٠	230Vac, 16A	Schuko CEE7	9	03.602.009.1	櫌 1 unit
483		12	٠	٠	230Vac, 10A	IEC60320 Sheet E	12	03.600.312.1	1 unit
783		18	٠		230Vac, 16A	IEC60320 Sheet I	15 3	03.600.418.1	1 unit
783		18	•		230Vac, 16A	IEC60309 1ph/N/PE 6h	15 3	03.600.518.1	1 unit



DOS00458





Knürr DI-STRIP[®] Euro Socket System, IEC 320 Euro input in plug panel

- With fine-wire fuse 10A
- Optionally with lit switch, 2-pole switching
- 19" installation option
- With 3-way Euro combinations of IEC 320 sockets
- Material/ Finish

Housing: closed sheet steel extrusion, zincpassivated, powder-coated texture Plastic parts: Vampamid 6 0024 VO (UL94), recyclable

Dimensions

Socket spacing: 24 mm Height: 45.5 mm Housing width: 44.4 mm (= 1 U)

Approvals/certificates

- ČE label in accordance with low voltage guideline 2006/95/EWG - EMC Directive 2004/108/EC

- Innova-GS
- CSA NRTL/C
- CB-scheme
- Color

Housing: RAL 7035 light gray Plastic parts: RAL 7021 dark gray

- Load rating 100-240 Vac Input: (DC max. 10 A) Output: (DC max. 10 A)
- Approval symbols for IEC 320 3-way Euro combinations VDE, UR, CSA
- Supply schedule 1 socket strip 2 mounting brackets

L S	n	F1	F2	19"	Safe	Model	Order no.	UP
383	6	٠					03.622.006.1 🦉	
483	9	•		•			03.622.009.1 🧕	🚽 1 unit
433 •	6	•				With switch	03.624.006.1	1 unit

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

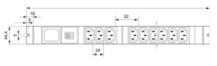
 Replace .x with the number of your color combination:
 .1 = RAL 7035, .6 = RAL 7035/RAL 2003

F2 = Design side 19" = Suitable for 19" installation Safe= Child-safe,



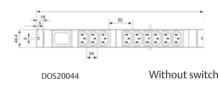


DOS00461



DOS20043

With switch





DOS20102

Knürr DI-STRIP[®] Euro Socket System, IEC 320 Euro input on side panel

- With fine-wire fuse 10A
- Optionally with lit switch, 2-pole switching
- 19" installation option
- With 3-way Euro combinations of IEC 320 sockets

Material/ Finish

Housing: closed sheet steel extrusion, zincpassivated, powder-coated texture Plastic parts: Vampamid 6 0024 VO (UL94), recyclable

Dimensions

Socket spacing: 24 mm Height: 45.5 mm Housing width: 44.4 mm (= 1 U)

Approvals/certificates

- CE label in accordance with low voltage
- guideline 2006/95/EWG
- EMC Directive 2004/108/EC
- Innova-GS
- CSA NRTL/C
- CB-scheme

Color

Housing: RAL 7035 light gray Plastic parts: RAL 7021 dark gray

Load rating 100-240 Vac

Input: (DC max. 10 A) Output: (DC max. 10 A)

- Approval symbols for IEC 320 3-way Euro combinations VDE, UR, CSA
- Supply schedule 1 socket strip 2 mounting brackets

L	S	n	F1	F2	19"	Safe	Model	Order no.	UP
333		6	٠					03.622.706.1	1 unit
433		9	٠					03.622.709.1 🧕	1 unit
383	•	6	٠				With switch	03.624.706.1	1 unit
483	٠	9	٠				With switch	03.624.709.1	1 unit

Knürr DI-STRIP[®] Euro Plug System, IEC 320 With cable and right angle plug

- With thermal overload protection, 10 A (can

- be reset)
- With lit switch, 1-pole switching - 19" installation option
- With 2 5-way Euro combinations of IEC 320
- sockets - Cable: H05VV-F 3G 2.5 mm²
- Cable: approx. 5 m
- Molded right angle plug, CEE7/VII, optional blue 16 A-6h (2P+PE) CEE17 plug

Material/ Finish

Housing: closed sheet steel extrusion, zincpassivated, powder-coated texture Plastic parts: Vampamid 6 0024 VO (UL94), recyclable

Dimensions

483 •

Socket spacing: 24 mm Height: 45.5 mm Housing width: 44.4 mm (= 1 U)

•

10

Approvals/certificates

- CE label in accordance with low voltage guideline 2006/95/EWG

- EMC Directive 2004/108/EC
- Innova-GS
- CB-scheme

Color

Housing: RAL 7035 light gray Plastic parts: RAL 7021 dark gray

- Load rating 250 Vac/10 A
- Approval symbols for IEC 320 5-way Euro combinations UR, CSA, VDE

Order no.

03.632.010.1

I IP

1 unit

Supply schedule

With switch

- 1 socket strip
- 2 mounting brackets

Dimensions in mm:	= Length = Switch		= standard height unit = Unit of packaging
	Number of socketsStandard side	6	= Express item

يا له د د له

F2 = Design side 19" = Suitable for 19" installation Safe= Child-safe,

1 mm = 0.03937 inch 1 kg = 2.2046 pound Conversion: Replace .x with the number of your color combination: .1 = RAL 7035, .6 = RAL 7035/RAL 2003

Safe Model 19

•



Mains cable for Euro socket strip For DIN 49 440 and French/Belgian standard

- Mains plug CEE/VII Euro socket IEC 320 - Cable
- H05VV-F 3G 1 mm²

- Mains voltage 250 VAC
- Nominal current

L	S	n	F1	F2	19"	Safe	Model	Order no.	UP
2000)							04.000.054.9	1 unit
6000)							04.000.053.9	1 unit



DOS00077

Mains cable for Euro socket strip	
For Swiss standard	

- Mains plug: Type 12 Euro socket IEC320 - Cable
- H05VV-F 3G 1 mm²
- Mains voltage 250 VAC

Nominal current
10 A

L	S	n	F1	F2	19"	Safe	Model	Order no.	UP
2000)							04.000.055.9	1 unit



DOS00078

Mains cable for Euro socket strip For British standard										
- Mains plug: Type BS 1363 - Euro socket IEC 320 - Cable 250 VAC - H05VV-F 3G 1 mm ²										
1105							Nominal current			
L	S	n	F1	F2	19"	Safe	Model	Order no.	UP	
2000)							04.000.056.9	1 unit	



DOS00519

Eu	iro C	onn	ecti	on C	able				
- Cab - H05		G1m	m²		ket IEC proval	320	 Mains voltage 250 VAC Nominal current 10 A 		
L	S	n	F1	F2	19"	Safe	Model	Order no.	UP
900							EU	04.000.051.9	1 unit
900							USA	04.000.052.9	1 unit

Dimensions in mm: L = Length U = standard height unit S = Switch UP = Unit of packaging n = Number of sockets F1 = Standard side F2 = Design side 19⁴ = Suitable for 19⁴ installation Safe= Child-safe,

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

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





DOS20019

Knürr DI-STRIP® Classic Standard CEE 7-V (UTE) / France

- Optionally with lit switch, 2-pole switching - Socket rotation: 45°
- Cable: H05VV-F 3G 1.5 mm²
- Molded right angle plug

Material/ Finish

Housing: closed sheet steel extrusion, zincpassivated, powder-coated texture Plastic parts: Vampamid 6 0024 VO (UL94), recyclable

Internal conductor: full-length busbar, brass

Dimensions

Socket spacing: 24 mm 100 mm Height: 45.5 mm Housing width: 44.4 mm (= 1 U) Cable 2.5 m

Approvals/certificates

- CE label in accordance with low voltage guideline 2006/95/EWG - EMC Directive 2004/108/EC
- Innova-GS - CB-scheme

Color combination

Final digit of order number .1: RAL 7035 light gray Final digit of order number .6: Housing: RAL 2003 pastel orange Plastic parts: RAL 7035 light gray

Load rating 100-240 Vac/16 A

Supply schedule

1 socket strip 2 mounting brackets

L	S	n	F1	F2	19"	Safe	Model	Order no.	UP
1783		17	٠			•		03.400.067.x	1 unit
1383		13	•			•		03.400.063.x	1 unit
983		9	٠			•		03.400.059.x	1 unit
583		5	٠			•		03.400.055.x	1 unit
1733	٠	16	٠			•	With switch	03.402.066.x	1 unit
1333	٠	12	٠			٠	With switch	03.402.062.x	1 unit
933	٠	8	٠			•	With switch	03.402.058.x	1 unit
533	٠	4	٠			•	With switch	03.402.054.x	1 unit

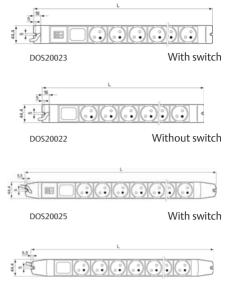
- 😸 = Express item

U = standard height unit UP = Unit of packaging

sions in mm: L = Length L S = Switch L n = Number of sockets F1 = Standard side F2 = Design side 19" = Suitable for 19" installation Safe= Child-safe,

 Conversion:
 1 mm = 0.03937 inch
 1 kg

 Replace .x with the number of your color combination:
 .1 = RAL 7035, .6 = RAL 7035/RAL 2003
 1 mm = 0.03937 inch 1 kg = 2.2046 pound Without switch



DOS20024

Knürr DI-STRIP[®] Compact Standard CEE 7-V (UTE) / France

- 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
- Molded right angle plug

Material/ Finish

Housing: closed sheet steel extrusion, zincpassivated, powder-coated texture Plastic parts: Vampamid 6 0024 VO (UL94), recyclable

Internal conductor: full-length busbar, brass

Dimensions

Socket spacing: 24 mm 50 mm Height: 45.5 mm Housing width: 44.4 mm (= 1 U) Cable 2.5 m

Approvals/certificates

- CE label in accordance with low voltage guideline 2006/95/EWG - EMC Directive 2004/108/EC
- EMC Directive 20 - Innova-GS
- CB-scheme

Color combination

Final digit of order number .1: RAL 7035 light gray Final digit of order number .6: Housing: RAL 2003 pastel orange Plastic parts: RAL 7035 light gray

Load rating 100-240 Vac/16 A

Supply schedule

1 socket strip 2 mounting brackets

L	S	n	F1	F2	19"	Safe	Model	Order no.	UP
883		15	٠			•		03.400.015.x	1 unit
732		11		٠		•		03.400.111.x	1 unit
683		11	٠			•		03.400.011.x	1 unit
532		7		•		•		03.400.107.x	1 unit
483		7	٠		٠	•		03.400.007.x 🕴	🧧 1 unit
382		4		٠		•		03.400.104.x	1 unit
333		4	٠			•		03.400.004.x	1 unit
883	٠	14	٠			•	With switch	03.402.014.x	1 unit
732	٠	10		٠		•	With switch	03.402.110.x	1 unit
683	٠	10	٠			•	With switch	03.402.010.x 🤞	🛃 1 unit
532	٠	6		٠		•	With switch	03.402.106.x	1 unit
483	•	6	•		•	•	With switch	03.402.006.x 🕴	🛃 1 unit
382	٠	3		٠		•	With switch	03.402.103.x	1 unit
333	•	3	٠			•	With switch	03.402.003.x	1 unit

mensions in mm: L = Length U = standard height unit S = Switch UP = Unit of packaging n = Number of sockets F1 = Standard side F2 = Design side 19"= Suitable for 19" installation Safee Child-safe,

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

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



Knürr DI-STRIP® Protector FI Standard CEE 7-V (UTE) / France

Protector FI

- RCCB for user protection
- Protection with indirect contact as error protection by switching off with inadmissible high contact voltage through contact with electrical equipment
- Protection with direct contact as back-up protection
- Residual operating current I**g** = 10 mA for alternating and pulsating direct fault current
- 19" installation option (with length 483 mm)
- Socket rotation: 45°
- Cable: H05VV-F 3G 1.5 mm²
- Molded right angle plug

Material/ Finish

Housing: closed sheet steel extrusion, zincpassivated, powder-coated texture Plastic parts: Vampamid 6 0024 VO (UL94), recyclable

Internal conductor: full-length busbar, brass

Dimensions

Socket spacing: 24 mm 50 mm Height: 78 mm Housing width: 44.4 mm (= 1 U)Cable 2.5 m

Approvals/certificates

- CE label in accordance with low voltage quideline 2006/95/EWG

- EMC Directive 2004/108/EC
- Innova-GS
- CB-scheme

Color combination

Final digit of order number .1: RAL 7035 light gray Plastic parts: RAL 7035 light gray

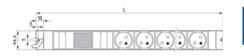
Load rating

100-240 Vac/16 A

Supply schedule

1 socket strip 2 mounting brackets

L	S	n	F1	F2	19"	Safe	Model	Order no.	UP
883		13	٠			*		03.404.013.1	1 unit
683		9	٠			•		03.404.009.1	1 unit
483		5	•		٠	•		03.404.005.1	1 unit



DOS20026

Knürr DI-STRIP® Protector LS Standard CEE 7-V (UTE) / France

Protector circuit breaker

- Circuit breaker for overload and short circuit
- Protects cables and feeds with rapid switching off with short circuit and defined delayed cutoff with overload
- Circuit breaker: 16 A
- Tripping characteristic, type B, 2-pole
- 19" installation option (with length 483 mm)
- Molded right angle plug

Material/ Finish

Housing: closed sheet steel extrusion, zincpassivated, powder-coated texture Plastic parts: Vampamid 6 0024 VO (UL94), recyclable

Internal conductor: full-length busbar, brass

Dimensions

Socket spacing: 24 mm 50 mm Height: 78 mm Housing width: 44.4 mm (= 1 U) Cable 2.5 m

Approvals/certificates

- CE label in accordance with low voltage guideline 2006/95/EWG
- EMC Directive 2004/108/EC
- Innova-GS
- CB-scheme

Color combination

Final digit of order number .1: RAL 7035 light gray Plastic parts: RAL 7035 light gray

Load rating 100-240 Vac/16 A

Supply schedule

- 1 socket strip
- 2 mounting brackets

L S	S n	F1	F2	19"	Safe	Model	Order no.	UP
883	13	٠			٠		03.408.013.1	1 unit
683	9	٠			•		03.408.009.1	1 unit
483	5	•		•	•		03.408.005.1	1 unit

L = Length S = Switch sions in mm: L

- n = Number of sockets
- F1 = Standard side
- e Express item F2 = Design side 19"= Suitable for 19" installation

U = standard height unit UP = Unit of packaging

Safe= Child-safe,

1 mm = 0.03937 inch 1 kg = 2.2046 pound Conversion: Replace **.x** with the number of your color combination: **.1** = RAL 7035, **.6** = RAL 7035/RAL 2003

- 13 Installation option (with length 465 min
- Socket rotation: 45°
- Cable: H05VV-F 3G 1.5 mm ²
- Molded right angle plug



Knürr DI-STRIP[®] Protector FI / LS Standard CEE 7-V (UTE) / France

Protector FI / LS

- Fault current switch and circuit breaker - Provides a combination of user, overload and short circuit protection
- Residual operating current Ig = 30 mA for
- alternating and pulsating direct fault current
- Circuit breaker: 16 A
- Tripping characteristic, type B, 2-pole
- Socket rotation: 45°
- Cable: H05VV-F 3G 1.5 mm²
- Molded right angle plug

Material/ Finish

Housing: closed sheet steel extrusion, zincpassivated, powder-coated texture Plastic parts: Vampamid 6 0024 VO (UL94), recyclable

Internal conductor: full-length busbar, brass

Dimensions

Socket spacing: 24 mm 50 mm Height: 78 mm Housing width: 44.4 mm (= 1 U)Cable 2.5 m

Approvals/certificates

CE label in accordance with low voltage guideline 2006/95/EWG

- EMC Directive 2004/108/EC
- Innova-GS
- CB-scheme

Color combination

Final digit of order number .1: RAL 7035 light grav Plastic parts: RAL 7035 light grav

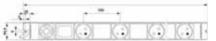
Load rating

100-240 Vac/16 A

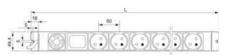
Supply schedule

1 socket strip 2 mounting brackets

L	S	n	F1	F2	19"	Safe	Model	Order no.	UP
883		13	٠			•		03.410.013.1	1 unit
683		9	•			•		03.410.009.1	1 unit
483		5	•		٠	•		03.410.005.1	1 unit



Classic with emergency stop switch



Compact with DOS20028 emergency stop switch

Knürr DI-STRIP[®] Protector Emergency STOP Standard CEE 7-V (UTE) / France

- With 2-pole emergency stop switch for user protection

- For protecting operating personnel
- For manual emergency switching off of the connected consumers
- Phase and neutral conductors are safely separated
- Switch must be specifically unlocked to restart - 19" installation option (with length 483 mm)
- Socket rotation: 45°
- Cable: H05VV-F 3G 1.5 mm²
- Molded right angle plug

Material/ Finish

Housing: closed sheet steel extrusion, zincpassivated, powder-coated texture Plastic parts: Vampamid 6 0024 VO (UL94), recyclable

Internal conductor: full-length busbar, brass

Socket spacing: 24 mm Classic: 100 mm, Compact: 50 mm Height: 101 mm

Housing width: 44.4 mm (= 1 U) Cable 2.5 m

Approvals/certificates

- CE label in accordance with low voltage guideline 2006/95/EWG
- EMC Directive 2004/108/EC
- Innova-GS
- CB-scheme

Color combinations

Final digit of order number .1: RAL 7035 light gray Plastic parts: RAL 7035 light gray

Load rating 100-240 Vac/16 A

Supply schedule

- 1 socket strip
- 2 mounting brackets
- 2 19" mounting bracket (additional with
- 19" installation option)

	L	S	n	F1	F2	19"	Safe	Model	Order no.	UP
	683		10	٠			•	Compact	03.426.010.1	1 unit
	483		6	٠		•	•	Compact	03.426.006.1	1 unit
unit										
g	1333		12	•			•	Classic	03.426.062.1	1 unit
	933		8	٠			•	Classic	03.426.058.1	1 unit

1 mm = 0.03937 inch 1 kg = 2.2046 pound Conversion: Replace **.x** with the number of your color combination **.1** = RAL 7035, **.6** = RAL 7035/RAL 2003

F2 = Design side 19" = Suitable for 19" installation Safe= Child-safe,

Lengt S = Switch n = Number of sockets F1 = Standard side

ions in mm:



U = standard height u UP = Unit of packaging

🚑 = Express item

DOS20027



With emergency Off switch DOS20029 and FI/LS circuit breaker

Knürr DI-STRIP[®] Protector Emergency Stop FI / LS Standard CEE 7-V (UTE) / France

- With 2-pole emergency stop switch for user protection
- For protecting operating personnel
- For manual emergency switching off of the
- connected consumers - Phase and neutral conductors are safely sepa-
- rated
- Switch must be specifically unlocked to restart
- Socket rotation: 45°
- Cable: H05VV-F 3G 1.5 mm²
- Molded right angle plug

Material/ Finish

Housing: closed sheet steel extrusion, zincpassivated, powder-coated texture Plastic parts: Vampamid 6 0024 VO (UL94), recyclable

Internal conductor: full-length busbar, brass

Dimensions

Socket spacing: 24 mm Compact: 50 mm Height: 101 mm Housing width: 44.4 mm (= 1 U) Cable 2.5 m

F1

n

8

Approvals/certificates

- CE label in accordance with low voltage auideline 2006/95/EWG

- EMC Directive 2004/108/EC
- Innova-GS - CB-scheme

Color combinations

Final digit of order number .1: RAL 7035 light gray Plastic parts: RAL 7035 light gray

Additionally:

With 2-pole fault current switch and circuit breaker Provides a combination of user, overload and short circuit protection

Order no.

03.428.008.1

I IP

1 unit

Load rating

100-240Vac/16 A

Supply schedule

Model

1 socket strip 2 mounting brackets

5	L	1	Knürr DI-S

With mains filter

14 °

DOS20030

TRIP® Power Cleaner Standard CEE 7-V (UTE) / France

F2

19

Safe

- High-frequency glitches are generally caused by switching processes in an operation from 100 kHz to 5MHz. This high-frequency rate overloads the mains frequency and affects adjacent electronic equipment. The mains filter attenuates this high-frequency rate.
- The attenuation behavior is harmonized with the typical interference spectrum.
- The mains filter works in both directions. This means that glitches from the equipment to the socket strip are also filtered from the mains. - 19" installation option (with length 483 mm)
- Socket rotation: 45
- Cable: H05VV-F 3G 1.5 mm² - Molded right angle plug

Material/ Finish

Housing: closed sheet steel extrusion, zincpassivated, powder-coated texture Plastic parts: Vampamid 6 0024 VO (UL94), recyclable

Internal conductor: full-length busbar, brass

Dimensions

Socket spacing: 24 mm 50 mm Height: 45.5 mm Housing width: 44.4 mm (= 1 U)

Approvals/certificates

- CE label in accordance with low voltage guideline 2006/95/EWG
- EMC Directive 2004/108/EC
- Innova-GS
- CB-scheme

Color combination

Final digit of order number .1: RAL 7035 light gray Final digit of order number .6: Housing: RAL 2003 pastel orange Plastic parts: RAL 7035 light gray

Load rating

Nominal voltage: max. 250 Vac, 50 Hz Nominal current: max, 16 A

Supply schedule

1 socket strip 2 mounting brackets

L = Length S = Switch standard height unit ions in mm: L UP = Unit of packaging n = Number of sockets F1 = Standard side = Express item F2 = Design side 19"= Suitable for 19" installation Safe= Child-safe,

1 mm = 0.03937 inch 1 kg = 2.2046 pound Conversion: Replace .x with the number of your color combination: .1 = RAL 7035, .6 = RAL 7035/RAL 2003

Model n F1 F2 19' Safe Order no. UP 883 13 • • 03.412.013.x 1 unit 683 9 • • 03.412.009.x 1 unit 483 5 • . • 03.412.005.x 1 unit

683





DOS20032

Knürr DI-STRIP[®] Safety Basic Standard CEE 7-V (UTE) / France

- For protecting against transient overvoltages from the mains, which, for example, are caused by switching machines on and off.
- With critical overvoltages the mains is separated. - Once the safety arrester has been triggered the
- green function display goes out. The socket strip can then no longer be used. Send the socket strip to the manufacturer for the safety arrester to be replaced!
- The safety effect of the type 3 test category and requirements category "D" is to protect the equipment, i.e. precision protection.
- The protection devices of the test and requirements categories 1 and 2 and B and C must be preconnected in the building installation to ensure optimum protection.
- 19" installation option (with length 483 mm) - Socket rotation: 45°
- Cable: H05VV-F 3G 1.5 mm²
- Molded right angle plug

Material/ Finish

Housing: closed sheet steel extrusion, zincpassivated, powder-coated texture Plastic parts: Vampamid 6 0024 VO (UL94), recyclable

Internal conductor: full-length busbar, brass

Dimensions

Socket spacing: 24 mm 50 mm Height: 45.5 mm Housing width: 44.4 mm (= 1 U)

Approvals/certificates

- CE label in accordance with low voltage guideline 2006/95/EWG
- EMC Directive 2004/108/EC
- Innova-GS
- CB-scheme

Color

Final digit of order number .1: RAL 7035 light gray

Technical data

Test category: Type 3 - In acc. with DIN EN 61643-11 Requirements class: D - In acc. with VDE 0675-6 Mains voltage: 230 VAC Nominal current: max. 16 A Cut-off discharge current (8/20 μs): 10 kA Response time: < 25 ns Protection level (with 100 A varistor peak current): - L with respect to N: < 800 V - L/N with respect to PE: < 1500 V

Supply schedule 1 socket strip 2 mounting brackets

L	S	n	F1	F2	19"	Safe	Model	Order no.	UP
732		10		٠		•		03.416.110.1	1 unit
683		10	•			•		03.416.010.1	1 unit
532		6		٠		•		03.416.106.1	1 unit
483		6	•		•	•		03.416.006.1	1 unit
432		4		٠		•		03.416.104.1	1 unit
383		4	•			•		03.416.004.1	1 unit

mensions in mm: L = Length U = standard height unit S = Switch UP = Unit of packaging n = Number of sockets F1 = Standard side F2 = Design side 19" = Suitable for 19" installation Safee Child-safe,

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

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



DOS20033 With overvoltage protection and mains filter



With overvoltage protection DOS20034 and mains filter

Knürr DI-STRIP® Safety Standard Standard CEE 7-V (UTE) / France

- The "Safety Standard" models consist of a combined overvoltage protection/mains filter element.
- For protecting against transient overvoltages from the mains, which, for example, are caused by switching machines on and off.
- With critical overvoltages the mains is separated. - Once the safety arrester has been triggered the green function display goes out. The socket strip can then no longer be used. Send the socket strip to the manufacturer for the safety arrester to be replaced!
- The safety effect of the type 3 test category and requirements category "D" is to protect the equipment, i.e. precision protection. - The protection devices of the test and requirements categories 1 and 2 and B and C must be preconnected in the building installation to
- ensure optimum protection. - High-frequency glitches are generally caused
- by switching processes in an operation from 100 kHz to 5MHz.
- This high-frequency rate overloads the mains frequency and affects adjacent electronic equipment. The mains filter attenuates this high-frequency rate.
- The attenuation behavior is harmonized with the typical interference spectrum.
- 19" installation option (with length 483 mm) - Socket rotation: 45°
- Cable: H05VV-F 3G 1.5 mm²
- Molded right angle plug

Material/ Finish

Housing: closed sheet steel extrusion, zincpassivated, powder-coated texture Plastic parts: Vampamid 6 0024 VO (UL94), recyclable

Internal conductor: full-length busbar, brass

Dimensions

Socket spacing: 24 mm 50 mm Height: 45.5 mm Housing width: 44.4 mm (= 1 U) Cable 2.5 m

Approvals/certificates

- CE label in accordance with low voltage guideline 2006/95/EWG
- EMC Directive 2004/108/EC
- Innova-GS
- CB-scheme

Color combination

Final digit of order number .1: RAL 7035 light gray Final digit of order number .6: Housing: RAL 2003 pastel orange Plastic parts: RAL 7035 light gray

Technical data

Mains voltage: 230 VAC Nominal current: max. 16 A Cut-off discharge current (8/20 µs): 10 kA Response time: < 25 ns Protection level (with 100 A varistor peak current): L with respect to N: < 800 V - L/N with respect to PE: < 1500 V Overvoltage protection Requirements class: D - In acc. with VDE 0675-6 Mains filter

- In acc. with VDE 0565 (EN 60939)

Supply schedule

1 socket strip 2 mounting brackets

F1 F2 19' Safe Model Order no. UP n 883 13 • With switch 03.418.013.x 1 unit 732 9 With switch 03.418.109.x 1 unit 683 9 • With switch 03.418.009.x 1 unit 532 5 With switch 03.418.105.x 1 unit 483 5 With switch 03.418.005.x 🛃 1 unit

sions in mm:

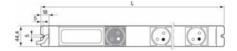
- = Length = Switch = Number of sockets
- = Standard side

F2 = Design side 19" = Suitable for 19" installation Safe= Child-safe

1 mm = 0.03937 inch 1 kg = 2.2046 pound Conversion: Replace **.x** with the number of your color combination: **.1** = RAL 7035, **.6** = RAL 7035/RAL 2003

U = standard height unit UP = Unit of packaging





With master-slave module

Knürr DI-STRIP® Master Slave Standard CEE 7-V (UTE) / France

- If the master equipment is switched, the slave sockets are also switched (together, with a short delay to the master). This means convenient switching on and off of several hard to access devices. Switching thresholds can be set from outside via potentiometer. - Note:

- The master equipment power consumption must be continuously above the switching-on threshold. When switching off the master equipment, the power consumption must fall below the switching-off threshold.
- 19" installation option (with length 483 mm) - Socket rotation: 45°
- Cable: H05VV-F 3G 1.5 mm²
- Molded right angle plug

Material/ Finish

Housing: closed sheet steel extrusion, zincpassivated, powder-coated texture Plastic parts: Vampamid 6 0024 VO (UL94), recyclable Internal conductor: full-length busbar, brass

Dimensions

Socket spacing: 24 mm 50 mm Height: 45.5 mm Housing width: 44.4 mm (= 1 U) Cable 2.5 m

Approvals/certificates

- CE label in accordance with low voltage guideline 2006/95/EWG

- EMC Directive 2004/108/EC
- Innova-GS - CB-scheme

Color combination

Final digit of order number .1: RAL 7035 light gray Plastic parts: RAL 7035 light gray

Load rating

Max. 250 Vac/16 A

Technical data Switching threshold setting range On: 20 mA - 200 mA (approx. 55 mA delivery status) Off: 16 mA - 160 mA (approx. 44 mA delivery status) Switching delay: 550 ms +/- 20 % Electronic module: 2-pole switching

Supply schedule

1 socket strip 2 mounting brackets

L	S	n	F1	F2	19"	Safe	Model	Order no.	UP
683		9	٠			•		03.414.009.1	1 unit
483		5	٠		٠	•		03.414.005.1	1 unit

Dimensions in mm: L = Length S = Switch n = Number of sockets F1 = Standard side U = standard height unit UP = Unit of packaging 🗲 = Express item F2 = Design side 19" = Suitable for 19" installation Safe= Child-safe,

1 mm = 0.03937 inch 1 kg = 2.2046 pound Conversion: Replace **.x** with the number of your color combination: **.1** = RAL 7035, **.6** = RAL 7035/RAL 2003



Master-slave, overvoltage protection and mains filter



DOS20036

Master-slave, overvoltage protection and mains filter

Knürr DI-STRIP® Combi Standard CEE 7-V (UTE) / France

- Master-slave with overvoltage protection and mains filter
- Automatic consumer switching
- Combines Master-Slave (page 7.32) and Safety Standard (page 7.31) functions - Socket rotation: 45°
- Cable: H05VV-F 3G 1.5 mm²
- Molded right angle plug

Material/ Finish

Housing: closed sheet steel extrusion, zincpassivated, powder-coated texture Plastic parts: Vampamid 6 0024 VO (UL94), recyclable Internal conductor: full-length busbar, brass

Dimensions

Socket spacing: 24 mm 50 mm Height: 45.5 mm Housing width: 44.4 mm (= 1 U) Cable 2.5 m

Approvals/certificates

- CE label in accordance with low voltage guideline 2006/95/EWG
- EMC Directive 2004/108/EC
- Innova-GS
- CB-scheme

Color combination

Final digit of order number .1: RAL 7035 light gray Plastic parts: RAL 7035 light gray

Technical data

Overvoltage protection and mains filter: Mains voltage: max. 250 Vac Nominal current: 16 A Requirements class: D (precision protection in acc. with VDE 0675) Surge current resistance (8/20 μs wave): max. 10 kA Protection level (1.5/50 µs wave): < 1500 V (L + N against PE) Master-slave function: Switching threshold setting range On: 20 mA - 200 mA (approx. 55 mA delivery status) Off: 16 mA - 160 mA (approx. 44 mA delivery status) Switching delay: 550 ms +/- 20 % Electronic module: 2-pole switching

Supply schedule

1 socket strip 2 mounting brackets

L	S	n	F1	F2	19"	Safe	Model	Order no.	UP
782		9		٠		•		03.420.109.1	1 unit
733		9	٠			•		03.420.009.1	1 unit
582		5		٠		•		03.420.105.1	1 unit
533		5	•			•		03.420.005.1	1 unit

Dimensions in mm:

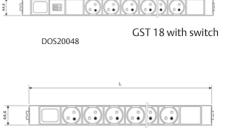
- L = Length S = Switch n = Number of sockets F1 = Standard side
- F2 = Design side 19" = Suitable for 19" installation

Safe= Child-safe,

 Conversion:
 1 mm = 0.03937 inch
 1 kg

 Replace .x with the number of your color combination:
 .1 = RAL 7035, .6 = RAL 7035/RAL 2003
 1 kg = 2.2046 pound

U = standard height unit UP = Unit of packaging 🦲 = Express item



GST 18 without switch

Knürr DI-STRIP[®] Compact GST 18 Plug System (Wieland) Standard CEE 7-V (UTE) / France

- Quick and efficient plug connection system
 Plug-in electro-installation in place of conventional wiring
- Speed:
- With easy pre-configured element plugging together
- Flexibility:
- With cable (cable length)
- Rational:
- Easy socket strip swap-out, without costly cabling
- Safety:
- Faulty installations are ruled out with plug system
- Space-saving:
- Use of protection and switching functions can be extended with further cabling without and plug space loss (max. load rating 16 A)

Material/ Finish

Housing: closed sheet steel extrusion, zincpassivated, powder-coated texture Plastic parts: Vampamid 6 0024 VO (UL94), recyclable

Internal conductor: full-length busbar, brass

Dimensions

Socket spacing: 24 mm 50 mm Height: 45.5 mm Housing width: 44.4 mm (= 1 U)

Approvals/certificates

- CE label in accordance with low voltage guideline 2006/95/EWG
- EMC Directive 2004/108/EC
- Innova-GS
- CB-scheme
- **Color combination** Final digit of order number .1: RAL 7035 light gray Plastic parts: RAL 7035 light gray
- Load rating 100-240 Vac/16 A

Supply schedule 1 socket strip

2 mounting brackets

L	S	n	F1	F2	19"	Safe	Model	Order no.	UP
583	٠	6	٠			•	With switch	03.402.206.1	1 unit
433	٠	3	٠			•	With switch	03.402.203.1	1 unit
533		7	٠			•		03.400.207.1	1 unit
383		4	٠			•		03.400.204.1	1 unit



DOS20051

Knürr DI-STRIP[®] Safety Basic with GST18 plug system / France

- With overvoltage protection

- Technical description, see page 180

L S	n	F1	F2	19"	Safe	Model	Order no.	UP
433	4				•		03.416.204.1	1 unit



DOS20052

Knürr DI-STRIP[®] Safety Standard with GST18 plug system

- With overvoltage protection, with integrated mains filter and lit switch

- Technical description, see page 181

L	S	n	F1	F2	19"	Safe	Model	Order no.	UP
583		5				•		03.418.205.1	1 unit



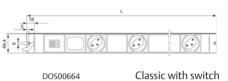
DOS20054

Knürr DI-STRIP[®] Master Slave with GST18 plug system

- Technical description, see page 182

L	S	n	F1	F2	19"	Safe	Model	Order no.	UP
533		5				•		03.414.205.1	1 unit





DOS00664



DOS00665

Classic without switch

Knürr DI-STRIP® Classic Standard CH SEV 1011

- With/without switch, socket spacing, 100 mm Optionally with lit switch, 2-pole switching
- Socket rotation: 45°
- Cable: H05VV-F 3G 1.5 mm²
- Molded plug

Material/ Finish

Housing: closed sheet steel extrusion, zincpassivated, powder-coated texture Plastic parts: Vampamid 6 0024 VO (UL94), recyclable

Internal conductor: full-length busbar, brass

Dimensions

Socket spacing: 24 mm 100 mm Height: 45.5 mm Housing width: 44.4 mm (= 1 U) Cable 2.5 m

Approvals/certificates

- CE label in accordance with low voltage guideline 2006/95/EWG - EMC Directive 2004/108/EC

- Innova-GS
- CB-scheme

Color combination

Final digit of order number .1: RAL 7035 light gray Final digit of order number .6: Housing: RAL 2003 pastel orange Plastic parts: RAL 7035 light gray

Load rating 100-240 Vac/10 A

Supply schedule

1 socket strip

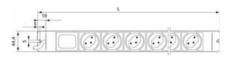
2 mounting brackets

L	S	n	F1	F2	19"	Safe	Model	Order no.	UP
1783		17	٠					03.700.067.x	1 unit
1383		13	•					03.700.063.x	1 unit
983		9	٠					03.700.059.x	1 unit
583		5	٠					03.700.055.x	1 unit
1733	٠	16	٠				With switch	03.702.066.x	1 unit
1333	٠	12	•				With switch	03.702.062.x	1 unit
933	٠	8	٠				With switch	03.702.058.x	1 unit
533	٠	4	•				With switch	03.702.054.x	1 unit

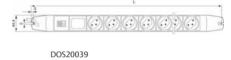


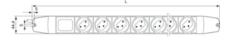


DOS00666



DOS20038





DOS00667

Knürr DI-STRIP[®] Compact Standard CH SEV 1011

- Optionally with lit switch, 2-pole switching
- 19" installation option (with length 483 mm)
- 2 models, standard side or design side
- Socket rotation: 45° - Cable: H05VV-F 3G 1.5 mm²
- Molded plug
- Material/ Finish
 - Housing: closed sheet steel extrusion, zincpassivated, powder-coated texture Plastic parts: Vampamid 6 0024 VO (UL94), recyclable Internal conductor: full-length busbar, brass

Dimensions

Socket spacing: 24 mm 50 mm Height: 45.5 mm Housing width: 44.4 mm (= 1 U) Cable 2.5 m

Approvals/certificates

- CE label in accordance with low voltage guideline 2006/95/EWG

- EMC Directive 2004/108/EC - Innova-GS
- CB-scheme

Color combination Final digit of order number .1: RAL 7035 light gray Plastic parts: RAL 7035 light gray

- Load rating 100-240 Vac/10 A
- Supply schedule 1 socket strip 2 mounting brackets

L	S	n	F1	F2	19"	Safe	Model	Order no.	UP
883		15	٠					03.700.015.1	1 unit
732		11		٠				03.700.111.1	1 unit
683		11	٠					03.700.011.1	1 unit
532		7		٠				03.700.107.1	1 unit
483		7	٠		٠			03.700.007.1	🛃 1 unit
382		4		٠				03.700.104.1	1 unit
333		4	٠					03.700.004.1	1 unit
732	•	10		٠			With switch	03.702.110.1	1 unit
683	٠	10	٠				With switch	03.702.010.1	1 unit
532	•	6		٠			With switch	03.702.106.1	1 unit
483	٠	6	٠		٠		With switch	03.702.006.1	1 unit
382	٠	3		•			With switch	03.702.103.1	1 unit
333	٠	3	٠				With switch	03.702.003.1	1 unit

Safe= Child-safe,
 Conversion:
 1 mm = 0.03937 inch
 1 kg

 Replace .x with the number of your color combination:
 .1 = RAL 7035, .6 = RAL 7035/RAL 2003
 1 mm = 0.03937 inch 1 kg = 2.2046 pound

L = Length I S = Switch I N = Number of sockets F1 = Standard side F2 = Design side 19" = Suitable for 19" installation

ions in mm:

U = standard height unit UP = Unit of packaging

e Express item





DOS00668

Knürr DI-STRIP® Protector FI/LS Standard CH SEV 1011

Protector FI/ LS

- Fault current switch and circuit breaker - Provides a combination of user, overload and short circuit protection
- Residual operating current Ig = 30 mA for alternating and pulsating direct fault current
- Circuit breaker: 10 A
- Tripping characteristic, type B, 2-pole
- 19" installation option (with length 483 mm)
- Socket rotation: 45°
- Cable: H05VV-F 3G 1.5 mm²
- Molded right angle plug

Material/ Finish

Housing: closed sheet steel extrusion, zincpassivated, powder-coated texture Plastic parts: Vampamid 6 0024 VO (UL94), recyclable

Internal conductor: full-length busbar, brass

Dimensions

Socket spacing: 24 mm 50 mm Height: 78 mm Housing width: 44.4 mm (= 1 U) Cable 2.5 m

Approvals/certificates

- CE label in accordance with low voltage guideline 2006/95/EWG
- EMC Directive 2004/108/EC
- Innova-GS
- CB-scheme

Color combination

Final digit of order number .1: RAL 7035 light grav Plastic parts: RAL 7035 light gray

Load rating

100-240 Vac/10 A

Supply schedule

1 socket strip 2 mounting brackets

L	S	n	F1	F2	19"	Safe	Model	Order no.	UP
683		9	٠					03.710.009.1	1 unit
483		5	٠		٠			03.710.005.1	1 unit



DOS00720



DOS00669

With overvoltage protection and mains filter

Knürr DI-STRIP® Safety Standard Standard CH SEV 1011

- With overvoltage protection and integrated mains filter
- With lit switch, 2-pole switching
- 19" installation option (with length 483 mm) - Socket rotation: 45°
- Cable: H05VV-F 3G 1.5 mm²
- Molded plug

Material/ Finish

Housing: closed sheet steel extrusion, zincpassivated, powder-coated texture Plastic parts: Vampamid 6 0024 VO (UL94), recyclable Internal conductor: full-length busbar, brass

Dimensions

Socket spacing: 24 mm 50 mm Height: 45.5 mm Housing width: 44.4 mm (= 1 U) Cable 2.5 mm

Approvals/certificates

- CE label in accordance with low voltage guideline 2006/95/EWG
- EMC Directive 2004/108/EC
- Innova-GS
- CB-scheme

Color combination

Final digit of order number .1: RAL 7035 light gray Plastic parts: RAL 7035 light gray

Description and technical data (See page 165)

Nominal current: 10 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
683	٠	9	٠				With switch	03.718.009.1	1 unit
483	•	5	٠		•		With switch	03.718.005.1	1 unit

Length ons in mm:

- U = standard height unit UP = Unit of packaging
- = Switch = Number of sockets e Express item F1 = Standard side
- F2 = Design side 19"= Suitable for 19" installation
- Safe= Child-safe,

1 mm = 0.03937 inch 1 kg = 2.2046 pound Conversion: Replace **.x** with the number of your color combination: **.1** = RAL 7035, **.6** = RAL 7035/RAL 2003

Knürr PowerTrans®





Knürr PowerTrans[®] Power Distribution Rack

Central connection unit for power supplies for individual server racks.



Power Distribution Rack



The **Knürr PowerTrans**[®] Rack is the interface between the low voltage feed and the Power Distribution Unit (PDU) of the **Knürr DI-STRIP**[®] family, as well as other Emerson Network Power PDUs for supplying servers and further IT devices.

The power distribution is performed in the individual plug-in units and therefore no longer has to be installed fixed in the building. Up to 8 plug-in units can be integrated. Each plug-in unit is supplied with an A and B feed (redundancy). With max. 250 A/phase loads of up to 329 kVA can be supplied from just one single rack.





Knürr PowerTrans[®] Strong points

- Equipping and installation The outputs on the plug-in units can be flexibly configured according to customer requirements via various plug connections, type CEE and GST 18. (e.g. BladePower® or PizzaPower®, DI-STRIP® TriplePower®, and flexible distribution with the GST18i5 distributor block, 3-phase).
- Two 3-phase feeds
 - Feed A and feed B both threephase with max. 250A/phase L1, L2, L3, N, PE
 - Ideal for providing feed redundancies

3 Cable routing

Convenient cable routing from above and below.

4 Costs-conscious

Only the main feed on the rack must be installed by an electrician. The individual plug-in units and the PDUs can be connected per Plug & Play installation, thereby allowing later extensions to be performed cost-effectively.

1 MIR20388



2 MIR20390



3 MIR20391



4 MIR20386

Knürr PowerTrans®



Knürr PowerTrans[®] 19" Power Distribution Rack

- Feed of 2 separate 3-phase 400V mains, L1, L2, L3, N, PE
- Each with a 250A circuit breaker in the input
 Distribution to the individual plugs via busbars
- and contact-safe plug-in connections – Up to 8 slot-in units with A feed and B feed are possible

Material / Finish

- Basic rack, extruded aluminum, polished
- Corner piece, die-cast aluminum, polished
- Glass infill front door, single safety glass
- panel, 4mm
- Covers, zinc-passivated sheet steel, powdercoated texture
- Color

W H

RAL 7021 dark gray

800 2120 1000

D

Supply schedule

- 1 rack with covers and front door 1 plinth for cable entry on the side and rear with leveling feet (0-25mm)
- 2 plinth trims for front and rear, with vent slots and fixing for filter mat
- 2 plinth trims, closed
- 1 set of busbars, safe from contact for A feed and B feed
- 2 circuit breakers with max. 250 A 16 power supply plugs for the slot-in units
- wired on the busbars
- 5 multifunctional braces with jumper bracket 2 19" T-slot extrusions

Order no.

03.014.501.8

UP

1 unit

- 16 chassis rails
- 1 complete earthing set
- 1 complete locking set

How supplied

Assembled

Mode

ka

MIR20377	
101111120377	



MIR20383



MIR20382

Knürr PowerTrans® 19" Chassis

h d

U

- 19" slot-in housing
- Width 19"
- Height 3 U
- Depth 480 mm
- Color: RAL 7021 dark gray
 2 separate 3-phase inputs with ma
- 2 separate 3-phase inputs with max. 63A phase current
 Outputs acc. to variants 1-4

Variant 1 Plug-in

- 2 protected 3-phase outputs, 230V/400V
 32A via IEC60309 socket, 3Ph/N/PE 6h, red
- Suitable for connecting 2 PizzaPower 3-phase (03.631.021.1) or 2 BladePower 3-phase (03.630.015.1)

Variant 2 Plug-in

- 4 protected 1-phase outputs, 230V 32A via IEC60309 socket, 1Ph/N/PE 6h, blue
- Suitable for connecting 4 PizzaPower 1-phase (03.631.007.1) or 4 BladePower 1-phase (03.630.005.1)

Variant 3 Plug-in

- 6 protected 1-phase outputs 230V/400V
 16A via GST18i5 Euro installed socket, 3Ph
- Suitable for connecting GST18i5 distributor block, 3-phase (04.000.038.9, for flexible distribution to 1-phase socket strips) as well as connecting a TriplePower 3-phase (03.600.024.1 or 03.600.048.1)
- Variant 4 Plug-in
 - Empty housing
 - For customer-specific equipping
- How supplied Assembled

W	Н	D	U	Model	Order no.	UP
19"		479	3	Variant 1	03.014.003.8	1 unit
19"		479	3	Variant 2	03.014.002.8	1 unit
19"		479	3	Variant 3	03.014.001.8	1 unit
19"		479	3	Variant 4	03.014.000.8	1 unit

... multifunctional use



Connection example for 3-phase (32 A) power distribution in data centers with blade servers and pizza servers.

Socket strip connection cable length can be freely selected (max. 20 m).

3-phase variant: BladePower[®] and PizzaPower[®]



Connection example for 1-phase (32 A) power distribution in data centers with blade servers and pizza servers.

Socket strip connection cable length can be freely selected (max. 20 m).

1-phase variant: BladePower[®] and PizzaPower[®]







Connection example for 1-phase and 3-phase (16 A) power distribution in network racks.

Socket strip connection cable length can be freely selected (max. 20 m).

1-phase and 3-phase variant: DISTRIP® and TriplePower®

Emerson Network Power UPS



UPS Uninterruptible Power Supply



Tower Solutions • 19" Slot-In • Large Scale Systems

The right technical solution for every requirement.



UPS20082

Uninterruptible Power Supplies Strong points

Safety:

High-grade online and line interactive technology guarantees safe and uniterruptible operation of your systems.

Efficiency:

The 19" modules provide high performance on minimum installation space with compact construction and modular setup.

Investment security:

Our solutions grow with your requirements, can be flexibly used and are easily expanded.

Central UPS systems

Higher power classes, 10 kVA to 4800 kVA, with installation and maintenance on request.

Modularity:

The individual components of this range can be combined according to requirements and consequently produce specifically defined solutions.

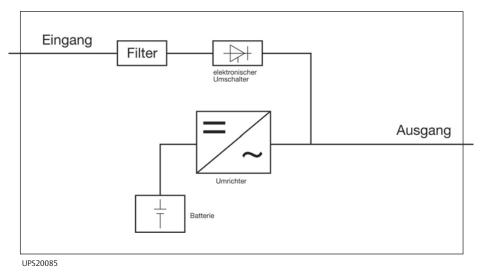
User-friendliness

Comprehensive displays and interactive interfaces for external analysis of status messages provide the user with current system information at all times.

Highest possible protection

Online UPS systems provide the highest possible protection against the 10 most frequent mains disturbances.

Line-InterActive / PowerSure PSI XR IEC 62040-3 VI-SS-313



The line interactive UPS model uses an inverter in inverse operation to recharge the battery with stable mains supply. If the mains power supply fails, then the working direction changes and the battery powers the inverter. Because the transducer constantly monitors the mains input, it can react quicker to failures and correct voltage breaks.

The transducer connected upstream from the consumer has a specific filtering effect against mains disturbances. This technology is highly recommendable for uninterruptible power supplies for many applications, particularly with regard to PC requirements.

Liebert PSIXR Protection in rack and tower use for networks, telecommunications and

Hot-swappable batteries



Professional desktop PCs



Power Quality Systems





Switches, hubs, routers & bridges



Universal communication options

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					μ	_
	_)

Data center facilities



Extendable bridging times



Telecommunication switchgear units

Liebert[®] PSI-XR

High-performance rack & tower UPS system for network protection

The **Liebert PSI-XR** is a compact UPS system with line-interactive technology, which was specially designed for IT applications, such as network racks and small data centers, for example.

The Liebert PSI-XR's flexible design allows the unit to be configured as a standalone tower and rack installation over 2 U.

The Liebert PSI-XR is available as both 230-V and 120-V model in four different power classes.

The UPS is especially impressive with its innovative line-interactive design and automatic voltage regulation. This protects against voltage fluctuations by increasing or reducing the power supply to the level required by the connected devices. The UPS system also ensures longer battery service life, as the devices are supplied for as long as possible via the mains.



PSI XR 2U Rack version

Liebert PSI-XR standard equipment Flexibility:

- Six or seven battery backed-up outputs
- Configurable input voltage range
- Free swivel display panel
- Automatic frequency scanning
- Several communication options (serial, USB, SNMP and contact closure)

Higher availability

- Data cable overvoltage protection
- UPS system status early warning system
- Fully automatic battery test
- Lightning and overvoltage protection
- Remote emergency stop
- Hot-swappable batteries the user can change
- Sufficient battery run time under full charge with power failures for proper shut down of the connected equipment

Lowest possible TCO (Total Cost of Ownership)

- 0.9 power factor for more power for the protected devices and energy-efficient operation
- Wide input voltage range
- Reduced installation input (costs and time)
- Standard two year warranty

Ideal for:

- PCs

- Networked workstations
- Servers
- Network racks
- Big network peripheries
- VolP

PSI XR 2U Tower version

Liebert[®] PSI XR specifications

Model	PS1000RT3-230XR	PS1500RT3-230XR	PS2200RT3-230XR	PS3000RT3-230XR
Power data				
VA	1000VA	1500VA	2200VA	3000VA
W	900W	1350W	1980W	2700W
Dimensions and weight				
Device (WxDxH mm)	440 x 490.5 x 88	440 x 490.5 x 88	440 x 700.5 x 88	440 x 700.5 x 88
Shipping size (WxDxH mm)	560 x 612 x 228	560 x 612 x 228	560 x 821 x 228	560 x 821 x 228
Weight - device (kg)	25	28	42	46
Shipping weight (kg)	29	32	47	51
Input parameters				
Frequency		22	20	
Voltage range without battery operation	on	165 to 300 VA0	C (configurable)	
Frequency range		45 - 65 Hz	, (± 0.5 Hz)	
Input connection	IEC320-C14	IEC320-C14	IEC320-C20	IEC320-C20
Output parameters				
Output connections	(6) IEC320-C13	(6) IEC320-C13	(6) IEC320-C13	(6) IEC320-C13
			(1) IEC320-C19	(1) IEC320-C19
Voltage (Normal Mode)		220/230/240 VA	AC (configurable)	
Voltage (Battery Mode)	220/230/24	0 VAC (configurable); ± 5%	% before low-battery warni	ing
Transfer Time		4-6 ms	typical	
On-Battery Waveform		Sine	wave	
Overload Warning		>10	00%	
Battery Parameters				
Туре			onspillable, lead acid	
Quantity x Voltage x Rating	4 x 12 x 7.2	4 x 12 x 9	8 x 12 x 7.2	8 x 12 x 9
Recharge Time	5 hours to 9	0% of rated capacity, after	full discharge into resistiv	e load
Battery Backup Time				
Environmental				
Operating/ Storage Temperature, °C			-15 to 40	
Relative Humidity			on-condensing	
Operating Altitude			5° without derating	
Audible Noise	(40 dBA, internal fan(s) Off	; < 45 dBA, internal fan(s) Oi	n
Agency				
Safety)40-1-1	
EMC)-2 2nd Ed Class A	
Transportation		ISTA Procedure	1A Certification	
Warranty			arranty extension availabl	
Packaging			cable, USB Cable, Tower Sta	
			Environment protection sh	
			output cables for 2200/300	
	(1) "Shucko" CEE 7		ord and (1) UK plug to IEC-3	320-C19 input cord
Order no.	06.099.027.1	06.099.028.1	06.099.029.1	06.099.030.1
Order no. SNMP Card		06.099	9.022.1	

Liebert[®] PSI XR Battery Cabinet Specifications

Model	PSRT3-24VBXR	PSRT3-48VBXR			
Used w/UPS Model	PS1000RT3-230XR / PS1500RT3-230XR	PS2200RT3-230XR / PS3000RT3-230XR			
Dimensions, W x D x H, mm					
Unit / Shipping	440 x 490.5 x 88 / 560 x 675 x 228				
Weight, kg					
Unit / Shipping	29) 33			
Batteries					
Туре	Valve-regulated, n	onspillable, lead acid			
Quantity x Voltage x Rating	8 x 12 x 7.2	8 x 12 x 7.2			
Battery Manufacturer	CSB, YUASA or Equivalent				
Environmental					
Operating / Storage Temperature, °C		/ -15 to 40			
Relative Humidity	0% to 90%, n	on-condensing			
Maximum Operating Altitude	3000m at 35° v	without derating			
Agency					
Safety / Emissions		EC/EN/AS 62040-2 2nd Ed Class A			
Transportation	ISTA Procedure	e 1A Certification			
Order no.	06.099.034.1	06.099.035.1			

Battery runtime chart (runtimes in minutes; with fully charged batteries; ambient temperature 25 °C)

Number of batteries	PS1000RT3-230XR	PS1500RT3-230XR	PS2200RT3-230XR	PS3000RT3-230XR
Internal Battery (half/full load)	15 / 6	13/5	14 / 5	13 / 5
1 Cabinet (half/full load)	73 /31	55 / 18	45 / 15	31/12
2 Cabinet (half/full load)	129 / 65	95 / 46	67 / 29	56/18
3 Cabinet (half/full load)	181/96	131/64	95 / 48	73/31
4 Cabinet (half/full load)	233/124	167 / 82	143 / 72	95 / 47
5 Cabinet (half/full load)	285 / 151	203 / 106	167 / 84	113 / 56
6 Cabinet (half/full load)	336 / 179	239 / 124	191/102	131/65



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Leading global provider of Business-Critical Continuity™ solutions.

- Alternating Current
- Connectivity
- Integrated Computing
- Embedded Power
- Monitoring Outside Plant
- Power Switching and Regulation
- Precision Cooling
 Racks and Integrated Enclosure Services
- Overvoltage Protection

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Liebert[®] PSI

High performance rack & tower UPS system for network protection

The Liebert PSI is a compact UPS system with line-interactive technology, which was specially designed for IT applications, such as network racks and small data centers, for example.

The Liebert PSI's flexible design allows the unit to be configured as a standalone tower and rack installation over 2 U.

The Liebert PSI-XR is available as both 230-V and 120-V model in four different power classes.

The UPS is especially impressive with its innovative line-interactive design and automatic voltage regulation. This protects against voltage fluctuations by increasing or reducing the power supply to the level required by the connected devices. The UPS system also ensures longer battery service life, as the devices are supplied for as long as possible via the mains.

PSI 2U Rack version

PSI 2U Tower version

Flexibility:

- Battery backed-up outputs
- Configurable input voltage range
- Free swivel display panel
- Automatic frequency scanning
- Rack runner rails
- Several communication options
- Contact closure, USB and SNMP

Higher availability

- Data cable overvoltage protection
- UPS system status early warning system
- Up to five minutes battery runtime with power failures (fully charged)
- Fully automatic battery test
- Overvoltage protection
- Remote emergency stop
- Hot-swappable batteries

Lowest possible TCO (Total Cost of Ownership)

- Power factor 0.9
- Wide input voltage range
- Reduced installation input (costs and time)
- Warranty

Ideal for:

- PCs
- Networked workstations
- Servers
- Network racks
- Big network peripheries
- VolP

Liebert® PSI specifications

Model	PS750RT3-230	PS1000RT3-230	PS1500RT3-230	PS2200RT3-230	PS3000RT3-230		
Power Rating	750VA/675W	1000VA/900W	1500VA/1350W	2200VA/1980W	3000VA/2700W		
Dimensions, W x D x H - mm							
Unit		440 x 412 x 88		446 x 6	57 x 88		
Shipping		560 x 595 x 228		560 x 7	76 x 228		
Weight - kg							
Unit	15	19.4	20.9	33.8	37.2		
Shipping	18.2	22.6	24.1	38.3	41.5		
Input AC Parameters							
Surge Protection			220				
Voltage Range Without Battery	Operation		165-300, Configurabl	ρ			
Frequency Range	operation		45-65Hz, (+ 0.5Hz)	<i>د</i>			
Input Socket		IEC-320-C14	45 05112, (* 0.5112)	IEC 22	20-C20		
Output Receptacles		(8) IEC-320-C13			3 - (1) IEC-320-C19		
Voltage, Normal Mode			/240 VAC, Configural		5-(1)12C-520-C19		
Voltage, Battery Mode			nfigurable; +5% Befor				
Transfer Time		220/230/240 VAC, CO		e Low Dattery warnin	y		
			4-6 ms, Typical				
Waveform	Sine wave						
Overload Warning			› 100%				
Battery Parameters							
Туре			julated, Nonspillable,				
Quantity x Voltage x Ah	2 x 12 x 7.2	3 x 12 x 7.2	3 x 12 x 9	6 x 12 x 7.2	6 x 12 x 9		
Backup Time	See Load Autonomy table below						
Recharge Time	5 hours to 90% of rated capacity, after full discharge into resistive load						
Environmental							
Operating Temperature		0°0	C to 40°C (32°F to 104	ŀ°F)			
Storage Temperature		-1	5° to 40°C (5°F to 104	°F)			
Relative Humidity		0%	to 90%, non-condens	ing			
Operating Altitude		Up to 3000m (10,	000 ft.) at 35°C (95°F) without derating			
Audible Noise			< 45 dBA	<u> </u>			
Agency							
Safety			IEC/FN/AS 62040-1-1				
Surge			IEC/FN/AS 61000-4-2				
ESD			IEC/FN/AS 61000-4-3				
Susceptibility			IEC/FN/AS 61000-4-4				
Electrical Fast Transient			I/AS 62040-2 2nd Ed				
Emissions			IEC/FN/AS 61000-4-6				
Conducted Immunity			IEC/EN/AS 61000-3-2				
Harmonics			IEC/FN/AS 61000-4-6				
Transportation			Procedure 1A Certific				
Fnvironmental		ISTA	ROHS compliant	duon			
		Queans standard		concion available)			
Warranty Dackaging	N.A 1.4		(+1 year warranty ext al on CD, Liebert Multi i		Contract		
Packaging							
			e, Tower Stand, Mount				
	Fixed		onnector, Input Power				
			9 and (1) UKplug to IE				
			IEC-320-C13, IEC Outpu				
Order no.	06.099.061.1	06.099.062.1	06.099.063.1	06.099.064.1	06.099.065.1		
Order no. SNMP Card			06.099.022.1				

Load Autonomy - Liebert PSI 750VA-3000VA

-						
	Load %	750VA	1000VA	1500VA	2200VA	3000VA
	10	84	93	76	82	76
	20	45	47	32	44	32
	30	25	26	17	19	17
	40	15	15	12	14	12
Internal Battery	50	11	12	9	11	9
	60	9	9	7	9	7
-	70	7	7	5	7	5
	80	5	6	4	5	4
	90	4	5	3	4	3
	100	4	4	3	3	3

Note: All run times are in minutes, assume fully charged batteries and are typical at 25°C (77°F) with resistive loads.

Technical support

Always at your disposal: Our commitment to your business, provided by our technical support in five languages (English, Spanish, French, Italian, German). Free: 00-80011554499 Subject to a charge: +39 02 98250222 liebert.upstech@emerson.com

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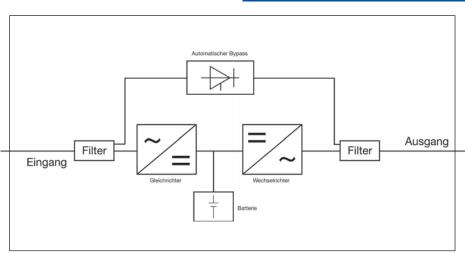
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Leading global provider of Business-Critical Continuity[™] solutions.

- AC Power
- Connectivity
- DC Power
- Derrowch
 Integrated Computing
 Embedded Power
 Infrastructure Management & Monitoring
- Outside Plant
- Power Switching and Regulation
- Precision Cooling Racks and Integrated Enclosure
- Services
- Overvoltage Protection

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Online / GXT2 and GXT3 IEC 62040-3 VFI-SS-111

USV20086

The accumulator takes over from the rectifier without any interruption when there is a mains failure and provides the necessary energy for a certain length of time. On-line systems provide high levels of security and are particularly recommended for high-grade and sensitive consumers.

On-line UPS systems have the advantage of effectively filtering out spikes and drop outs by converting alternating voltage into direct voltage and back into alternating voltage.

Our online UPS systems are series equipped with interfaces, so that unattended computers can be specifically powered down automatically and powered up again after the mains supply has returned.

If faults occur in the system itself due to battery aging processes, an automatic by-pass switch ensures bridging and direct connection to the mains without interruption.

The user is acoustically and optically informed about defective functions and power failures.

Systems for quality power

True Online Power Full energy for your company



Hot-swap batteries



Professional PC workstations



Online technology



Small hubs, routers & bridges



Diverse communication options

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	Γ		Γ			
					-	-

Data center



Extendable back-up times



Telecom equipment

Liebert[®] GXT3, 700VA - 3000VA Model Reliable online UPS protection in compact 2 U package

The **Liebert GXT3** is a true online UPS, which continuously supplies the IT equipment with quality alternating current. No interruption with changeover to batteries. They protect devices from almost all power supply faults – be they caused by power failures, voltage spikes, voltage drops or whatever other faults. The UPS is available as rack and tower version.

One of the most economical and reliable UPS systems in its class: the Liebert GXT2 is the industry leader in terms of dimensions, performance and reliability.

The 0.9 power factor ensures more power for protected devices and more energy-efficient operation.

The optionally available MicroPOD Output Distribution And Maintenance Bypass Module guarantees operation – even during planned UPS maintenance work.



The Liebert GXT3 can be configured for rack or tower installation. The LED display swivels and can be easily read in all positions. The Liebert GXT3 has internal batteries and can also supply up to four external battery racks (2 U).

Flexibility:

- Up to six battery backed-up outputs
- Free swivel display panel
- Automatic frequency scanning
- Installation flexibility:
- Several communication options (SNMP/WEB & USB)
- Compatible with Liebert MultiLink, Liebert Nform, Liebert Multiport and the Liebert Intellislot Relay Interface card

Higher availability

- Advance early warning of UPS system status
- 4-8 minutes of battery backup time at full load
- Scalable runtime
- Full sequenced battery testing
- User replaceable hot swappable batteries

Lowest possible TCO (Total Cost of Ownership)

- Power factor 0,9
- Wide input voltage range
- Intelligent fan operation
- Efficient operation
- Warranty

Ideal for:

- PCs
- Networked workstations
- Servers
- Network racks
- Big network peripheries
- VolP

Liebert® GTX3, 700VA-3000VA Model specifications

Model	GXT3-700RT230	GXT3-1000RT230		GXT3-2000RT230	GXT3-3000RT230		
Power Rating	700VA/630W	1000VA/900W	1500VA/1350W	2000VA/1800W	3000VA/2700W		
Dimensions, W x D x H - mm							
Unit		30 x 85	497 x 4		602 x 430 x 85		
Shipping	61/x5.	70 x 262	61/x5.	70 x 262	717 x 570 x 262		
Weight - kg							
Unit	16.8	16.8	23.2	28	32		
Shipping	20	20	26	24	28		
Input AC Parameters							
Voltage Range Without Battery	Operation		ominal; variable base				
Frequency Range			Hz - 70Hz; Auto Sens				
Input Socket	IEC-320-C14	IEC-320-C14	IEC-320-C14	IEC-320-C20	IEC-320-C20		
Output Sockets	(6) IEC-320-C13	(6) IEC-320-C13	(6) IEC-320-C13	(6) IEC-320-C13	(6) IEC-320-C13		
				(1) IEC-320-C19	(1) IEC-320-C19		
Voltage		220/230/	240 VAC (user config	urable) +3%			
Waveform	Sine wave						
Battery Parameters							
Туре	Valve-Regulated, Nonspillable, Lead Acid						
Quantity x Voltage x Rating	4x12Vx5,0Ah 4x12Vx7,2Ah 4x12Vx9,0Ah 6x12Vx9,0Ah						
Recharge Time	3 hours to 90% capacity after full discharge with 100% load till UPS auto-shutdown (Internal Batteries Only)						
Battery Backup Time	See table below						
Environmental							
Operating		0°(C to 40°C (32°F to 104	4°F)			
Storage Temperature			5° to 50°C (5°F to 122				
Relative Humidity			to 90% RH, non-conc				
Operating Altitude			000 ft.) at 40°C (104°				
Audible Noise			dBA max at. 1 meter				
	6 dBA, at 1 meter 3.2ft fi				ter 3.2ft front and side		
	, at 1 meter 3.2ft from			48 dBA, at 1 m			
	, de l'inclei 5.2renom	the none of sides v	3.2ft rear	(To dort, de l'h	leter 5.2re redi		
Agency			5.211100				
Safety		IF	C/FN/AS 62040-1-20	08			
RFI/FMI			62040-2 2nd Fd=CISF				
Surge Immunity			IEC 62040-2 2nd Fd				
Transportation			ISTA Procedure 1A				
Compliance			ISTA FIOLEGUIE TA				
Order no.	06.099.070.1	06.099.071.1	06.099.072.1	06.099.073.1	06.099.075.1		
Order no. SNMP Card	06.099.070.1	00.099.071.1	06.099.072.1	00.099.073.1	00.099.075.1		
Order no. Relay Card	00 000 170 1*	00 000 171 1*	06.099.037.1	00 000 172 1*	00 000 175 1*		
Bundles	06.099.170.1*	06.099.171.1*	06.099.172.1*	06.099.173.1*	06.099.175.1*		

Liebert[®] GXT3 Battery Cabinet Specifications

Model G		
	XT3-700RT230 GXT3-1000RT230 GXT3-1500RT230 GXT3-2000RT	230 GXT3-3000RT230
Used w/UPS Model	GXT3-48VBATT	GXT3-VBATT
Dimensions, W x D x H - mm		
Unit	497 x 430 x 85	602 x 430 x 85
Shipping	617 x 570 x 262	717 x 570 x 262
Weight - kg		
Unit	32	42
Shipping	35	46
Batteries		
Туре	Valve-regulated, nonspillable, lead acid	
Quantity x Voltage x Rating	2 x 4 x 12V x 9.0Ah	2 x 6 x 12V x 9.0Ah
Environmental		
Operating / Storage Temperature, °C	0°C to 40°C (32°F to 104°F) / -15°C to +40°C (19°F to 104°F)	
Relative Humidity	0% to 95%, non-condensing	
Maximum Operating Altitude	Up to 3000m (10,000 ft.) at 104°F (40°C) without derating	
Agency		
Safety / Emissions	EC/EN/AS 62040-1-1:2008 / FCC Part 15, Class A=CISPR22 Class B	
Transportation	ISTA Procedure 1A	
Order no.	06.099.074.1	06.099.076.1
Order no. Bundles	06.099.174.1*	06.099.176.1*

*incl. 19" installation set

Battery runtime chart (runtimes in minutes; with fully charged batteries; ambient temperature 25 °C)

Number of batteries	700VA	1000VA	1500VA	2000VA	3000VA
Internal Battery (full load)	6	4	4	4	4
Internal Battery + 1 External Cabinet	50	27	24	15	18
(full load)					
Internatl Battery + 2 External Battery Cabinets	82	58	48	29	44
(full load)					
Internatl Battery + 3 External Battery Cabinets	116	78	82	45	62
(full load)					
Internatl Battery + 4 External Battery Cabinets	140	109	100	64	84
(full load)					

Technical support

Always at your disposal: Our commitment to your business, provided by our technical support in five languages (English, Spanish, French, Italian, German). Free: 00-80011554499 Subject to a charge: +39 02 98250222 liebert.upstech@emerson.com

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GXT3M-FLY-EN-0210-01

Emerson Network Power™

Leading global provider of Business-Critical Continuity[™] solutions.

AC Power

- Connectivity
- DC Power

- Derrower
 Integrated Computing
 Embedded Power
 Infrastructure Management & Monitoring Outside Plant
- Power Switching and Regulation
- Precision Cooling
- Racks and Integrated Enclosure
- Services
- Overvoltage Protection

Emerson Network Power.com

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Areas of application

- LAN and WAN servers
- Cluster network components: hubs, routers, bridges
- Remote telecommunication units
- Internal telecommunication systems
- Voicemail and e-mail servers
- Test and diagnostics systems
- Engineering network servers
- Protection of industrial, microprocessor-controlled equipment
- Company-critical equipment

Liebert GTX2 6000 VA - 10000 VA

True-Online-Power – Full energy for your company

This is an individually configurable high-performance UPS with proven reliability, equipped with internal hot-swap batteries and extendable back-up time in the compact rack and tower design.

The functions and flexibility of the **GXT2** make this UPS the optimum solution for your server or data centers, and for networks and telecom systems that require a reliable, uninterrupted supply with quality power.

As a true online (continuous transducer) UPS, in addition to power factor correction, frequency conversion and unlimited extension options for external batteries, the **GXT2** also provides automatic and manual internal bypass functions, as well as an optional external maintenance bypass. The Liebert **GXT2** has all the functions required to protect company-critical equipment against all power supply problems.

Most important benefits

- Online VFI technology with sine wave output
- Extendable battery options for long back-up times
- Communication via USB, serial ports and networks
- Input with power factor correction
- Highly-sensitive early warning-shut down via MultiLink software
- At least five minutes battery-supported operation
- Settings, voltage and frequency according to individual configuration
- Hot-swappable user can change batteries
- Cold start via battery

True-Online-Power – Full energy

- UPS remote monitoring via SNMP/Web card
- Optional bypass rack for easy maintenance

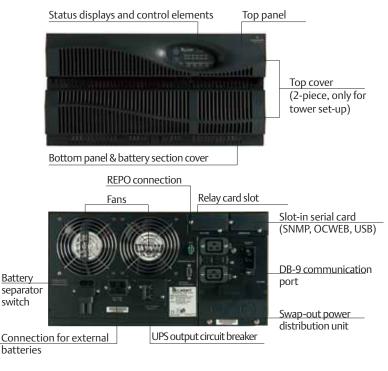






for your company

Emerson Network Power UPS



GXT2 rack model (version show: 5U, 4500-6000VA)

Most important benefits

There is no switchover time with a continuous transducer UPS.

If the mains power fails, the critical load is fed seamlessly by the GXT2.

For optimum usage the GXT2 can be adapted to your requirements with a specially developed software package. The GXT2 is available in the power classes 700, 1000, 4500 and 6000 VA. Batteries that the user can swap out ensure low maintenance operation. And you will find all of this in one of the most economical UPS systems in this class.

Quality power

The Liebert GXT2 is a "True Online" power source. Whatever the quality of the inbound mains power, the clean sine wave output meets the highest requirements of your equipment. In contrast to other UPS technologies, the GXT2 is equipped to overcome all potential power supply problems.

- Spikes and transient overvoltages
- EMI and RFI faults
- Voltage drops and undervoltages
- Harmonic waves
- Power factor corrected loads
- Power failures

Integrated reliability

The GXT2 is configured in all areas for maximum reliability. It consequently has functions that you will search in vain to find with other systems in the same price class:

- Power factor corrected loads: The GXT2 maintains stable output voltage, even with power factor-corrected consumers, which are so typical for modern IT environments.
- Frequency conversion: For 60Hz input/50Hz output or 50Hz input/ 60Hz output without any power losses.
- Unlimited connection options for external batteries: Any amount of 2U/4U battery racks can be connected to achieve additional back-up times.
- Internal automatic and manual bypass: Guarantees uninterrupted switchover of the power supply for maintenance purposes.
- Optional maintenance bypass and output: Power distributor: Enables problem-free installations and safe routine maintenance on the UPS or connected devices.

Communication for power supply monitoring and control

The GXT2 provides an extensive range of communication options that correspond with the control and monitoring requirements of modern network and server systems.

Intellislot[®] SNMP/Web Card

For extended UPS communication and control the Intellislot SNMP/Web Card provides your GXT2 with extensive SNMP and web management. You consequently achieve a high degree of flexibility, as you can monitor and control your UPS within the network. This adapter can also be easily configured for a standard SNMP implementation, and can be easily and efficiently shut down using MultiLink shutdown software from Liebert without any personal monitoring.

Intellislot USB Adapter (USB CARD)

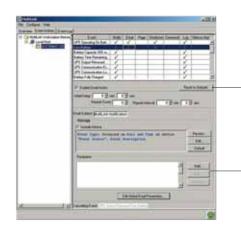
This card, which can be used during running operation, provides a USB interface for Microsoft Windows 2000 and XP Power Management, and consequently enables the problem-free and orderly shutdown of the connected consumers, without having to install additional software. An approx. 2 meter cable is included in the supply schedule.

Intellislot Multiport Kit (Multiport4)

The Multiport4 Card can also be used during running operation, and splits the UPS contact signals into 4 separate contact closure sets, which enable the communication with the MultiLink shutdown software on four servers simultaneously.

Intellislot Interface Kit for Relay Contacts (Relaycard-Int)

This kit provides 4 voltage-free relay contact signals for the states: "Battery operation", "Low battery charge", "Bypass operation" and "General alarm signal". This card can be installed during running operation via a DB25F port.



Automatic system and graphic messages can be configured for each UPS event.

The configuration details appear in the lower window section when event and message type are selected.



MultiLink[™] Shutdown Software

The GXT2 UPS system can be used in combination with the Liebert MultiLink Shutdown software for the orderly shutdown of your IT system. This package switches off all standard operating systems smoothly and controlled when the UPS batteries require charging.

The MultiLink automated shutdown software has the critical task here of protecting all information for an IT system or a network. It is available in two versions: for individual applications and for several systems within a network, even with multiple used operating systems. During power failures that last for longer periods, MultiLink automatically shuts down the computer operating systems smoothly and controlled when the UPS batteries have run low by a defined point. MultiLink is configured to inform the users automatically.

Alarm signals can be sent to alpha-numerical pagers or can appear directly as pop-up messages on the user's monitor. MultiLink can be configured for both inband and out-of-band operation. Sending alarm and status signals via a network can significantly reduce the costs of cabling and installation.

As an alternative to this it is possible to lay communication cables between the individual computer systems in case a network cabling is too problematic or expensive.

Technical Data [Liebert GXT2 tower/rack version]

Model	GXT2-4500RT230	GXT2-6000RT230
Provide the second seco		
Power data VA	4500	6000
W	3150	4200
Dimensions and weight	5150	4200
Device (WxDxH mm)	221 (5)	J) x 547 x 430
Shipping size (WxDxH mm)		x 690 x 500
Weight - device (kg)	67	67
Shipping weight (kg)	76.5	76.5
Input parameters		
Frequency	220/230/240 VAC	user-definable; 40-70Hz
Voltage range without battery operation	176	5-276VAC
Frequency range	40-70Hz	(self-detecting)
Input connection	Fix	ed-wired
Output parameters		
Output connections	Fixed-wir	ed + (2) IEC320-C19
Wave form and frequency		Hz nominal (50Hz specified)
Overload warning		illiseconds; 131 - 199%
		ds; 112 - 129% for
	10 second	s with switchover
Battery parameters		
Туре		pof, flame-retardant
Authorized manufacturer		REW 28-12 FR
Number/battery blocks	20 x	12V x 5Ah
Backup time	24	17
Half charge (minutes)	24	17
Full charge (minutes)	10	7
Charge time Batteries, other functions		ge protection; black start (without mains)
Battery test	Automatic, user-confi	
Further data	Automatic, user-com	
Noise generation	<	: 55ddB
Op. temp./height above sea level		C; 0-3000m
Communication		npatible with WIN2000, XP, Apple OS, relay card and SNMP/Web card optional
Delivery includes		k serial cable, 3m; rack mounting handles; data carrier with configuration program
Additional components	Input/ou	tput distributor
	PD-CEHDWR in	put/output distributor
	with maintenance	bypass, PD-CEHDWRBYP
Warranty		2 years
Standards & requirements	EMC directions Desig	- ENV/ENC Transat
Safety Additional batteries	EIVIC directives, Desig	n, EMI/EMC, Transport
Models		-240VBATT
Device (WxDxH mm)		J) x 522 x 430
Shipping size (WxDxH mm)		x 690 x 455
Weight - device (kg)	5007	65
Shipping weight (kg)		76
Number/battery blocks	20 x ⁻	12V x 9.0Ah
Authorized manufacturer		REW 45-12 FR
Extended back-up time***		
1 battery module (full/half charge)	31/70	21/49
2 battery modules (full/half charge)	54 / 120	38/85
3 battery modules (full/half charge)	80 / 164	55 / 123
4 battery modules (full/half charge)	106 / 208	75 / 156
Order no. UPS	06.099.013.1	06.099.014.1
Order no. UPS Set	06.099.113.1*	06.099.114.1*
Order no. Battery Module		099.017.1
Order no. Battery Module +19" Installation Set		099.117.1
Order no. SNMP Card		099.039.1
Order no. Relay Card	06.0	099.037.1

*UPS set incl. SNMP card + install. set





GXT2 4500 - 6000 in rack and tower version

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Systems for quality power

GXT2 10000R230

For applications with extreme heat density



Benefits

- Online VFI technology with sine wave output
- Parallel configuration for power increase or providing redundancy
- Extendable battery options for long back-up times
- Communication via USB, serial ports and networks
- Input with power factor correction
- Highly-sensitive early warning-shut down via MultiLink software
- Settings, voltage and frequency according to individual
- configuration
- Hot-swappable user can change batteries
- Cold start via battery
- UPS remote monitoring via SNMP/Web card
- Compact design in 3 U + 3 U format
- Available as configuration of 1, 2, or 3 units to provide full power or as 1+1, 2+1 or 1+2 redundancy

Applications

- Blade Server
- Pizza Box Server (1 U)
- LAN and WAN network server
- Cluster network components: hubs, routers, bridges
- Voice over IP (VoIP) switch and router
- Internal telecommunication systems
- Voicemail and e-mail servers
- Test and diagnostics systems
- Protection of industrial, microprocessor-controlled equipment
- Company-critical equipment

Liebert GXT2 10000R230

Uninterruptible power supply in compact design for environments with extremely high heat densities

With its compact format (6 U) and special features, which are among the best in their class, the new Liebert **GXT2** 10kVA from Emerson Network Power is the ideal solution for reliably supplying blade servers, pizza box servers, Voice over IP equipment and other data center and network systems in standard 19-inch racks with power.

Its redundant configuration option makes the Liebert **GXT2** 10kVA a modular and scalable solution that adjusts perfectly to your requirements. Utilize the 1+1 or 2+1 configuration with up to 20kVA to produce clean power for your applications and an additional 10kVA as reserve, or operate three modules parallel for loads of up to 30kVA.

This is an individually configurable high-performance UPS with proven reliability, equipped with internal hot-swap batteries and extendable back-up time in the compact rack and tower design. The Liebert **GXT2** 10kVA Rack Version is part of the Emerson Network Power Adaptive system solution for precision thermal management and uniterruptible power supply and was developed for the Liebert X-treme solutions.

Technical data [Liebert GXT2]

Model	GXT2-10000R230
Model	GX12-10000R230
Power data	
VA	10000
W	7000
Dimensions and weight	
Device (WxDxH mm)	410x630x130x (3 U)
Shipping dimensions (WxDxH mm)	· · · · ·
Weight - device (kg)	27 (UPS without batteries)
Protective range	IP20
Color	RAL 9005, black
Input parameters	
Frequency	50/60 Hz (automatic detection)
Voltage	230V L-N single-phase L, N,G
Voltage range without battery operation	176-276V
Frequency range	±5%
Input power factor and THDI	0.97 - <5%
Input-output connections	Fixed wired
Wave form	Sine wave
Overload warning	125% - 1 minute, 150% - 10s, 300% - 2s
Short circuit current (A) for 5 cycles	160A peak value
Level of efficiency	92%
Noise generation	<55dBA
Operating temperature	0 - 40°C (with battery)
	-25 - +55°C (without battery)
Relative humidity	0 - 90% non-condensing
Communication interface	Serial RS232D89, relay card, SNMP/Web
optional	
Battery extension, external	
Model	GXT2-240RVBATT
Dimensions (WxDxH mm)	410x630x130x (3 U)
Weight (kg)	67
Extended back-up time	
1/2/3/4 batteries (full charge)	6/16/26/36
1/2/3/4 batteries (half charge)	13/35/60/90
Number of batt. (/ battery blocks	Yuasa: NPW 45-12 / REW 45-12
	(20x12V / 45W / 9Ah)
Battery test	Automatic, configurable, 7-28 days
Warranty, standards	
and approvals	
Warranty	2 years
Standards and approvals	CE conformity marking
Safety	IEC / EN 62040-1-1
	CE Low Voltage Directive 73/23/EEC
EMI / EMC	IEC / EN 62040-2 - Class A
	CE EMC Directive 89/336/EEC
Design	IEC 62040-3 VFI-SS-111
Transport	ISTA Level 1A
Order no. UPS + 19" Installation Set	06.099.016.1
	06.099.116.1
Order no. UPS Set*	
Order no. UPS Set* Order no. Battery Module +19" Installation Set	06.099.019.1
	06.099.019.1 06.099.039.1

* incl. Battery Module + SNMP Card + 19" Installation Set

The approximate discharge times are given in minutes and for 25°C with resistive load. Although much time and effort went into ensuring that this brochure is accurate and complete, Emerson Network Power does not accept responsibility for its content and does not accept any form of liability for damages that may result from the use of this printed information, nor does it accept responsibility for errors or omissions. All rights reserved worldwide. Changes possible without prior notice. All names and/or entered trademarks are the property of the respective owner.





 LED display & control elements
 Top panel

 UPS Module
 Battery module

 Bottom panel
 Image: State of the s

 Relay card
 SNMP. USB

 Connections

 Serial RS232

 Input/output

 Battery connections







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Knürr RMS Compact II®



Knürr RMS Compact II[®]



Knürr RMS Compact II® Damage prevention with checks and controls

System and network management requirements mean the systems' ambient conditions must be monitored. Reliability and system availability are indispensable. Compliance with the required ambient parameters is extremely important for the fault-free operation of high-grade components.

Inadmissible fluctuations in temperature or humidity often cause hardware defects. Constant automatic monitoring of these parameters is therefore a basic requirement for ensuring properly functioning operability. With the rack monitoring systems offered by Knürr, this information can be recorded and forwarded directly to a higher-level management system, e.g. Nagios light form.

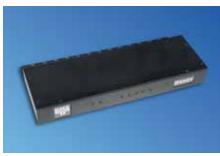
This recording is not, however, sufficient to ward off damages. For short response times when faults occur, it is helpful if the monitoring system can perform actions automatically (e.g. activate additional fans).

When defined incidents occur, the Knürr RMS Compact II[®] can immediately send a message as an 'SNMP trap' to the management system or directly as an e-mail to a technician or an SMS gateway. Rapid fault-finding and removal is extremely valuable! The ability to connect additional sensors to monitoring systems not only allows racks to be monitored – so too can complete rooms or building sections. All important environmental parameters of a system can consequently be recorded and evaluated in a simple and straightforward way.



The advantages of Knürr's modern rack monitoring system:

- Guarantees fault-free operation
- Detects disturbances early
- Logs incidents
- Makes service assignments easier with automatic monitoring
- Activates countermeasures in the event of a fault
- Central control of consumables (filters, paper, toner, meter readings, inspection intervals, etc.)
- Connection of up to 12 sensors in any arrangement



RMS20013



RMS20015

Knürr RMS Compact II®

Description

- Compact construction Zero unit solution (for mounting outside the 19" installation area)
- 19" installation with adapter bracket
- Safe clamping of all connected cables with integrated cable clamping bracket
- Cost-effective orderly installation with Plug & Play concept
- Convenient cabling with RJ45 sensor
- TCP/IP connection via Ethernet (10/100 Base T)
- Configuration via SNMP and web browser - Web access is password-protected and
- optionally encrypted (https)
- 3 different user levels

D

170

- Freely programmable filter system (boolean logic) for implementing all alarm conditions
- Compatible with standard network management systems - HPOpenView, Cabletron Spectrum, Castlerock, IBM Netview, IBM Tivoli, MG-Soft, Compaq Insight Manager, SUN NetManager, etc. Sensors for monitoring all current environ-
- mental influences (optional)
- Internal power supply for sensor equipment (no additional power supply necessary)
- Alarms via LEDs, relay, network management or e-mail (SMTP)
- Syslog support for continuous external data storage
- System time balancing with NTP servers

Technical data

- 12 universally usable sensor inputs for temperature sensors, humidity sensors, digital (on/off) or analog sensors (0...10V)
- 3 digital outputs (2 x relay, max. 3A at 230VAC, 1x 750mA at 48VDC)
- Power supply: 100 240 VAC
- Operating voltage: 12VDC

Approvals

CE Symbol in acc. with Low Voltage Directive 73/23/EEC, EMC directive 89/336/EEC

Color

RAL 7021 dark gray

Supply schedule

- 1 Knürr RMS Compact II
- 1 power supply
- 2 19" mounting brackets
- 1 power supply mounting bracket
- 1 CD ROM (with manual, MIB file)

How supplied

Flat-packed kit



 Humidity measuring range, 30-90% - Accuracy: +/- 5%

Order no.

06.108.200.8 6 1 set

- Supply schedule
 - 1 sensor with RJ45 port 1 mounting kit

Order no. UP 06.108.212.9 1 unit

RMS compact-specific LUF20069

ECO Temperature Sensor

w н

350 42

Description

- Insensitive to disturbances
- No additional power supply required - Standard cable length, 4 m The sensor does not have to be recali-
- brated

Technical data

- Temperature measuring range, 0-60°C - Accuracy: +/- 5%

Order no.

06.108.220.9

UP

1 unit

Supply schedule



RMS20005

W



WHDUhdkg

Insensitive to disturbances

No additional power supply required - The sensor does not have to be recali-

Humidity sensor

brated

Smoke Detector

Description

- Optical smoke detector with VdS approval
- For early fire detection with smoke
- emission - Power supply provided via RMS compact
- Standard cable length, 4 m
- Technical data
 - Operates between -20°C and +75°C
 - Supply schedule
 - 1 sensor with 4 m connection cable 1 mounting kit
- Model Order no. н D I IP Ø90 75 06.108.211.9 1 unit

RMS20019

(similar to picture) RMS compact-specific

Model

Description

ECO

1 sensor

1 mounting kit



Model

RMS Compact II®

Knürr RMS Compact II®



WHDUhdkg

Description

Monitors the AC power supply via an IEC Euro connector

AC Voltage Monitoring

Signals status via an integrated signal cable to the RMS Compact

Technical data

1 sensor

Model

1 mounting kit

230 V AC 50/60 HZ Monitored AC voltage: Connections: IEC plug, RJ45 socket

Supply schedule

Order no.

06.108.222.9

UP

1 unit

RMS20019

w

RMS20032



Supply schedule

Vibration Sensor

Description - Detects vibrations - Theft protection

Supply schedule

Model

Technical data

Description

Water sensor

- Detects presence of water

1 sensor with 2 m connection cable 1 mounting bracket

- Reset possible via Viewer software

1 sensor with 4 m connection cable

Order no.

06.108.213.9

- Operating voltage: max. 24 VDC

WHDUhd kg Model Order no.

06.108.217.9 1 unit

LIP

UP

1 unit

Do	67
Des	

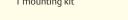
- cription
- Magnet bridge sensor, works on every magnetic conductive material (no special mating part required)

or Contact Sensor

- Can also be used for monitoring side panels and roof
- Standard cable length, 4 m

Technical data

- Operates between -20°C and +70°C
 Switching voltage, max. 200 VDC
 Switching current, max. 500mA
- Supply schedule
- 1 sensor with 4 m connection cable 1 mounting kit



Model Order no. UP 06.108.215.9 1 unit



D

RMS20032

RMS20006

Fan speed sensor

Description

- No additional power supply required Automatic detection as analog sensor
- Does not have to be recalibrated
- Offset and alarm parameters can be
- set in RMS

Technical data

- Measuring range: 0 to 0.8 l/s Non-linear measurement, values table:
- < 0 m/s < 1 V
- 0 m/s 1 V 1 m/s 1.7 V
- 2 m/s 2.9 V
- 3 m/s 4.1 V
- 4 m/s 5 V (6 V max.)

Supply schedule

1 sensor with 4 m connection cable 1 mounting kit

W	Н	D	U	h d	kg	Model	Order no.	UP
20	39	9					06.108.218.9	1 unit



HDU hd kg

Passive Infrared Movement Sensor

Description

Room monitoring with the latest stateof-the-art technology

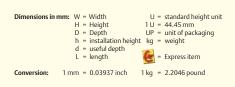
Technical data - VdS approval

- Classes A + B - Volumetric lens
- 2 16 m range
- Long lens range 29 - 50 m - Curtain lens range 17 - 30 m
- Manipulation monitoring
 Digital fault evaluation
- Corner or wall mounting

Supply schedule

1 sensor with 4 m connection cable 1 mounting kit

W	Н	D	U	hd kg	Model	Order no.	UP
						06.108.214.9	1 unit



Liebert Nform[™]



Liebert Nform[™] Monitoring Software



Liebert Nform[™] Increased reliability and energy efficiency with Emerson Network Power Monitoring solutions



Data centers are becoming more and more important in modern companies and today's society. The requirements for increasingly better IT infrastructures rise rapidly as a result. Demands are made here for the highest possible performance with very high efficiency at the same time. These requirements appear difficult to meet because alone the server cooling in many data centers uses up as much energy as the operation itself.

An integrated monitoring is needed to increase profitability while also reducing costs, especially with increasing complexity.

Liebert Nform[™] helps to meet these requirements:





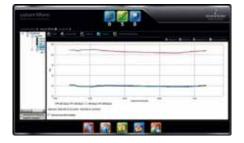
What is Liebert Nform[™]?

 Liebert Nform[™] is a DC monitoring software especially for Liebert infrastructure systems with trend analysis function, alarm management and results notification.

What can Nform[™] do?

• Liebert Nform[™] provides uniform monitoring interface and therefore an overview of the operative status of a large number of devices, such as:

- PDUs: Liebert MPX[®], Liebert MPH[®], Knürr DI-STRIP[®] RM
- Uninterruptible Power Supplies
- Water-cooled racks, such as:
 Knürr CoolLoop[®], Knürr CoolTherm[®]
- Thermal equipment
- Environmental monitoring systems, such as
 - Knürr RMS Compact II®





What are the customer benefits?

- Liebert Nform[™] is an easy to install and use management suite that does not require complicated adjustments.
- The integration of all infrastructure components, from PDUs to RMS compact II right through to water-cooled server racks is very easy, despite the high number of monitoring data points.
- Liebert Nform[™] supports a whole range of state-of-the-art features:
 - Dashboard: The system has a configurable start page on

which various graphics transparently illustrate the status.

- Separable window content for transparent presentation on several monitors
- Trending enables the storage and graphic presentation of historical data
- Optional automatic device actions if an error occurs; application execution, setting device parameters (e.g. cooling), shutting down servers and much more.
- Internationalization enables installation in various languages



Liebert Nform[™] – Software

Function	Express Edition	Standard Edition	Enterprise Edition
Order no.	06.108.502.0	06.108.504.0	06.108.506.0
Number of remote management stations	Unlimited	Unlimited	Unlimited
Users and groups	Unlimited	Unlimited	Unlimited
Supported operating systems	Windows XP, Windows 2003/08 Server, Windows Vista	Windows XP, Windows 2003/08 Server, Windows Vista	Windows XP, Windows 2003/08 Server, Windows Vista
Internationalization	~	V	V
Automated device searches	 ✓ 	v	V
Data logger	 ✓ 	V	v
SQL monitoring	Only Nform-internal database	Only Nform-internal database	Nform-internal and Microsoft SQL
Configured dashboard	V	v	 ✓
Data and alarm export	 ✓ 	V	 ✓
Online help	 V 	 ✓ 	 ✓
Real-time monitoring and control			
Regular device query	V	 ✓ 	 ✓
Number of delivered device licenses	30	30*	100*
UPS/PDU web card integration	 ✓ 	 ✓ 	
Maximum number of devices	30	4800	Unlimited
Open architecture – 3rd party SNMP monitorii	ng 🖌	 ✓ 	 ✓
Supported devices	All Liebert UPS, Power and Cooling systems that support SNMP	All Liebert UPS, Power and Cooling systems that support SNMP	All Liebert UPS, Power and Cooling systems that support SNMP
Parametered data logging	~	v	V
Setpoint climate control	Yes	Yes	Yes
Alarms and actions			
Mform window goes to the front	 V 	 ✓ 	 ✓
Sound is played	 V 	 ✓ 	 ✓
Standard actions			
E-mail message	V	 ✓ 	 ✓
Execute external commands	 V 	 ✓ 	 ✓
Write file	V	 ✓ 	 ✓
MultiLink Shutdown Clients			Unlimited including
Set Data on Event			 ✓
Get Data Graph on Event			 ✓
Software services		information, software support website, 2 oftware updates, tool for device integration	
Number of supported device licenses	30	30*	100*
First year	incl.	inc.	incl.
1 year	06.108.531.0	06.108.534.0	06.108.537.0
3 years	06.108.532.0	06.108.535.0	06.108.538.0
	06.108.533.0	06.108.536.0	06.108.539.0

* Upgrades available!

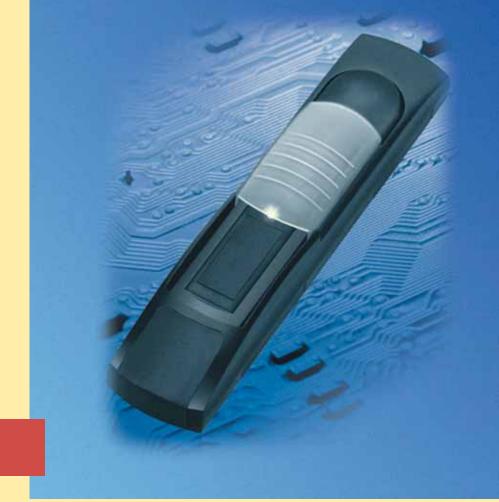
Upgrades			
to Nform 4.0	×	06.108.505.0	06.108.505.0

Upgrades and software services				
Higher number of monitored devices	Order no. for device license	Order no. for software services: Access to technical information, software support website, 24-hour tele-support, software updates, tool for device integration		
		1 year	3 years	5 years
30	06.108.513.0	06.108.540.0	06.108.541.0	06.108.542.0
100	06.108.521.0	06.108.543.0	06.108.546.0	06.108.545.0
500	06.108.525.0	06.108.546.0	06.108.547.0	06.108.548.0

Knürr @Lock[®]



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MIR20107

Problems with locking systems

Unauthorized access

- By own employees - By external companies
- Uncontrolled access
- Decentralized access authorizations
- Key problem
- Loss of key
- Single key system
- Many different keys

The mechanical/electro-mechanical comparison

Cylinder lock systems

- + Simple technical version
- + Cost-effective with individual locking
- + No power supply required
- Easily duplicated
- Replacement (among other factors) problem-
- atic - Code conversion expensive with locking sys-
- tems
- Key-connected, which means transferable _ with key hand-over (theft)
- Logging and monitoring very expensive/time-consuming

Electronic systems

- + Various locking options
 + Opening permission possible without a key being required
- + Opening permission can be granted/withdrawn almost immediately
- + Lock control / logging possible + Remote opening per PC / Internet / mobile phone / SMS
- + Expandable and easy code conversion lock system
- Power supply required



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Locking solutions Control components to choose from

- Electronic locking systems
- Mechanical combination lock
- Standard locking with half-cylinder







Modules

Control components for electronic locking systems

Transponder

Network (server)

Interlocking: security with multi-point interlocking mechanism

MIR00423

Decentralized rack suite

- Each rack/each door can be opened separately - via own address
- Access authorization administration
- Access monitoring
- Locking mechanism control
- Access logging

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MIR20099

Individual Locking / Stand-Alone Solution





- Monitored access
- Locking mechanism control
- Access logging

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Knürr @Lock® Strong points

- The very small and modular design means that no additional space or greater installation depths are required in the rack.
- Contacts for emergency power supply that can be activated externally using trade standard batteries are integrated into each swing handle.
- An integrated light-emitting diode signals with different colors to inform whether or not the current access is authorized.
- Each device of the series can be networked with the other devices, which results in numerous possible combinations and options.
- Every opening process can be logged in the network. Existing network structures can be used for networking.

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Knürr @ Lock[®] Swing Handle Security for racks in the data and networking area

- Conventional keys are replaced by electromechanical locking components.
- A servomotor pulls the retaining awl back and releases the handle.
- Actively opening the door is, however, made with the hand as before.
- Easy exchange of the swing handle with later installation using unchanged installation opening.
- Intended for standardized installation openings of conventional swing handle.
- Can be quickly and easily upgraded to locking system.
- Convenient administration of access authorizations.

@Lock Swing Handle, HID/IP

- The swing handle opens after a registered transponder card has been read.
- With the HID variant, the communication between swing handle and PC runs via a junction box and a server.
- The IP swing handle, by contrast, is configured via an IP address and is connected directly via the network to the PC.
- Up to 2,048 HID cards per swing handle can be configured using a registered master card.
- Configuration of the cards via the network is also possible with the included software.

Technical data @Lock Swing Handle, HID (optional IP remote connection)

- 100...240VAC, power supply not included in
- the supply schedule
- Operation with 12VDC/40mA (max. 430mA)
- Multi-color status LED
- Real-time clock
- Network communication is made via external server (gateway)
- Up to 250 handles can be administered per server (IP address)

@Lock Swing Handle, HID/IP

- 100...240VAC, power supply not included in the supply schedule
- Operation with 12VDC/40mA (max. 430mA) - Multi-color status – LED
- Real-time clock
- Network communication with cabled connection via integrated Ethernet 10/100 Base T

Function

- Opens after reading a registered card
- Memory for 32 time segments
- Memory for 2,048 cards per handle
- Integrated logbook for 500 events
- Result-related communication
- 125 kHz transponder with unique code (HID 26 bit system)

Supply schedule

- @Lock Swing Handle, HID 1 swing handle, HID
- 1 reader
- 1 reader connection cable
- 1 network node, CX2001 1 network cable, CN2001

Supply schedule

- @Lock Swing Handle, IP 1 swing handle, IP
- 1 reader
- 1 reader connection cable
- 1 data CD



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Knürr @Lock[®] Server

The @Lock Server is the interface between the HID swing handles connected via the RS485 cable and the network connected via X-Port. It is used for intermediary storage of results and tasks and can administer up to 250 users (swing handle).

The @Lock Server has an integrated real-time clock, which is buffered when power fails for up to 1 hour.

Technical data

- Power supply: via an external plug-in power supply, 12V (DC)
- Nominal current: 80mA (DC)
- Max. power consumption: 200mA (DC)

- Main board Interface:

- Network interface:

- Storage space for tasks:
- Storage space for events:
- Max. number swing handles
- Integ. real-time clock:

RS 485 -Cable (A, B, GND, +12V) max. length to the next gateway, 5m X-Port, RJ34 plug, 8-pin max. 10 x 250 tasks max. 100 events 250

with buffering of up to 60min at 25°C



MIR20282

Knürr @Lock[®] Software "Administration Suite 2.0"

The @Lock software is the user interface for controlling and configuring the @Lock Swing Handle. Using this software, the administrator can create access codes and HID cards and assign users. The handle can be controlled in real-time from the software platform. All actions that are directly related with the swing handles are stored in an SQL database (e.g. opening, closing, granted accesses and accesses rejected on the basis of non-authorization).

Technical data

- MS-Windows 2000/NT etc.
- SQL database
- TCP/IP network connection to the swing handles
- The number of handles and gateways is only restricted by the capacity of the computer
- Communication with swing handle via server (gateways) or directly with @Lock Swing Handle, IP

Functions/applications

- Client-server-based administration program for the @Lock system
- Requires max. 3-4 seconds for a status update
- Administration of users and rights
- Administration of HID cards, opening of active keys and access codes, closing, activation or deactivation of swing handles
- Observation of authorized and unauthorized access attempts
- Recording of all events connected with swing handles
- Central observation of swing handle
- Combination of all swing handles and servers
- Events recording
- Optional web interface
- Supports Sarbanes/Oxley and HIPPA requirements



MIR20281

Knürr @Lock[®] Desktop Reader

The transponder cards are read into the administration software using the desktop reader. This enables the later configuration of the access media in the system (lock plan creation). The desktop reader is connected via the RS-232 interface with the PC on which the administration software is installed. The transponder card is inserted in the read-out unit for reading the transponder ID. The reading process can then be initiated in the administration software by hitting a key.

Technical data

- Power supply:	12V +- 10%
,	(DC max. 400mA)
	via low voltage socket
- Nominal current:	80mA (DC)
- RS232 interface:	RS 232 cable (RXD, TXD,
	GND, Reader present,
	PC present), 38,400 Baud
- Connection cable:	
	8-pin, 250 cm, UL
	stranded wire, AWG 26

Model	Order no.	UP
@Lock Server HID	01.180.011.9	1 unit
@Lock Swing Handle HID	01.180.022.9	1 unit
@Lock Swing Handle IP	01.180.023.9	1 unit
@Lock Administration Suite 2.0	01.180.048.9	1 unit
@Lock Desktop Reader HID	01.180.028.9	1 unit
@Lock Transponder Card	01.180.040.9	1 unit
Power Supply, PMI 2001EU	01.180.035.9	1 unit
Power Supply, PMI 2001UK	01.180.036.9	1 unit
Power Supply, PMI 2001US	01.180.037.9	1 unit
Power Supply, PMI 2001 Japan	01.180.038.9	1 unit
Power Supply, PMI 2001 Australia	01.180.039.9	1 unit



Combi Lock Security and flexibility realized mechanically

- This additional lock, the aptly named "Override", produces a combination swing handle with particularly special advantages.
- Innovative combination swing handle with two activation options
- Independent opening and closing of the swing handle via combination or cylinder lock
- Can be used for right and left closing doors

Installation

In the standard installation opening of the Miracel rack doors. Quick mounting with pluq-in connections and screw fittings.

Technical data

Cylinder lockCombination lock can be individually set

with 3 digits - Independent activation

Supply schedule

- 1 swing handle with combi lock
- 1 mounting material set

Model	Order no.	UP
Combi Lock	01.137.013.9	1 unit

MIR20095

