



Knürr PowerTrans®

Power Distribution Rack

Central connection unit for power
supplies for individual server racks.

2.66 to 2.69



Knürr PowerTrans® Power Distribution Rack

Knürr PowerTrans®

... forms the interface between the low voltage feed and the PDUs of the DI-STRIP® product family and other components for supplying servers and other IT equipment. The rack's basis: to connect Knürr Miracel® with the existing PowerTrans® 19" slot-in units the elements are simply slotted in and fixed at a free spot. The electrical connection to the rack is set up immediately. The power distribution is performed in the individual slot-in units and therefore no longer has to be installed fixed in the building.

Up to 8 slot-in units can be integrated. Each slot-in is supplied with an A and B feed (redundancy). With max. 250 A per phase one single rack can provide loads of up to 346 kVA. Plug & Play: only the main feed on the rack must be installed by an electrician.

The individual slot-in units and the PDUs can be connected per Plug & Play installation, making later extensions cost-effective. Slot-in units with measurement function are also available. This slot-in unit allows you to measure and monitor the electrical measured variables at the early main

distributor stage. This slot-in unit will replace standard analog volt and ampere meters and measuring devices for power outputs and power factor.

The required measured variables can be "customized" in six display panels. The system can also be connected to an LAN. The measured values are then displayed and saved on a PC in the LAN or on the Internet.

- Clear and transparent displays.
- Customized setting of measured variables for standard displays.
- Wide range of application with flexible adjustment of input variables.
- Connection error detection with installation.
- Communication with LAN enables integration into energy management.
- Easy reading and display of measured data with MS Excel allows the user to flexibly configure their own solutions.



Equipping and installation

The outputs of the slot-in units can be flexibly equipped as the customer wishes with the most diverse features: different CEE and GST18 type plug connections (e.g. Adaptive, Managed and Basic PDUs and flexible power distribution with the GST18/5 distributor block, 3-phase).



Measurement slot-in unit with extensive measurement functions (local or remote)

Can be integrated into various management programs.



INPUT POWER

- Max 250 A per phase
- 1 ph. or 3 ph. feed
- Max. 2 feeds per rack



OUTPUT DISTRIBUTOR

- 230/400V - 32A via IEC 60309 socket
- 230/400V - 16A via GST 18 socket
- 230V - 32A via IEC 60309 socket



MODULARITY

- Output distributors can be modularly equipped during running operation.



MONITORING

- Power Trans Rack complete and each individual slot-in and output.



LOCAL MONITORING

- Display for user
- Display at rack level and at slot-in level/output level



REMOTE MONITORING

- Secure web and SNMP interface



OVERLOAD PROTECTION

- Circuit breakers for every output





MIR20377

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, 4 mm
- Covers, zinc-passivated sheet steel, powder-coated texture

Color

RAL 7021 dark gray

Supply schedule

- 1 rack with covers and front door
- 1 plinth for cable entry on the side and rear with leveling feet (0-25 mm)
- 2 plinth panels for front and rear, with vent slots and fixing for filter mat
- 2 plinth panels, 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
- 16 slot-in rails
- 1 complete earthing set
- 1 complete locking set

How supplied

Assembled

W	H	D	U	h	d	kg	Model	Order no.	UP
800	2120	1000						03.014.501.8	1 unit



MIR20383

Knürr PowerTrans® 19" Slot-in

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

- Suitable for connecting 4 PizzaPower 1-phase (03.631.007.1) or 4 BladePower 1-phase (03.630.005.1)

Variant 1 slot-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 3 slot-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 slot-in

- Empty housing
- For customer-specific equipping

Variant 2 slot-in

- 4 protected 1-phase outputs, 230V 32A via IEC60309 socket, 1Ph/N/PE 6h, blue

How supplied

Assembled



MIR20382

W	H	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

... 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®