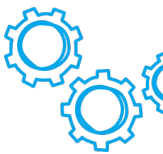




Flexible *Power-D-Box*® AC

The flexible *Power-D-Box*® system is a sophisticatedly designed power distribution system for AC applications in a 19" rack with only 2 HU. Thanks to its many configuration options, the respective version can be perfectly matched to your application. The pluggable, 1-pole 2210 thermal-magnetic circuit breakers can be used as protective element. For optimal use of the available installation space, different group signalling options and terminal versions are available, as well as a flexibly configurable system redundancy.



TYPICAL FEATURES

- 19" power distribution system, made of aluminium
- Rated voltage up to AC 230 V
- L phase protected
- Max. 75 A per supply unit
- For 30 or 2 x 15 pluggable 2210 circuit breakers, more upon request
- Max. load current up to 16 A
- Redundant or non-redundant set-up

YOUR BENEFITS

- Compact, space-saving, clear design through efficient utilisation of installation space and PCB technology
- Increased machine uptime through resettable circuit breakers
- Significantly reduced number of individual components through pre-assembly
- Facilitated system extension through pluggable circuit protectors even during operation
- Option of additional terminals on the back of the DIN rail for more convenient connection and transparency
- No additional installation space required for minimum bending radius of the connection cable

PREFERRED TYPES

Preferred types are E-T-A products, which are most frequently used by our customers. We manufacture these preferred types in substantial quantities. [You can find an overview of our preferred types here \(Page 3\).](#)

TYPICAL APPLICATIONS

Automation, car production, chemical industry, oil and gas, machine building industry, pharmaceuticals and foodstuffs

COMPLIANCE



WEB LINKS

Further information, [Mounting instructions \(2210\)](#), [International approvals](#), [Technical basics](#), [REACH](#), [RoHS](#), [Contact](#)

GENERAL INFORMATION

FURTHER INFORMATION



Mounting instructions for flexible *Power-D-Box*® for 2210 thermal-magnetic circuit breakers (negative pole protected)
www.e-t-a.de/pdb_ac_2210.pdf

TECHNICAL DATA

ELECTRICAL DATA

Rated voltage U_n	AC 230 V (AC 10...250 V depending on version)
Protected pole	L phase
Circuit breakers / circuit protectors	Plug-in type 2210-S circuit breakers (1-pole) Further options upon request
Number of loads	Up to 30
Redundancy	Optionally according to ordering number key

MECHANICAL DATA

Mounting dimensions (WxHxD)	Width: 482.6 mm (19" mounting) x Height: 88.9 mm (2 HU) x Depth: 205 mm...261 mm
Mass	3.44...5.09 kg (You can find more details in the installation instructions)
Material	Aluminium
Enclosure grounding	Available for each supply
Cable strain relief	Integrated

SUPPLY

Total current per supply	Max. 75 A
Terminals / Cable cross section	Spring-loaded terminal up to 25 mm ² Push-in terminals up to 25 mm ² (depending on the version, see mounting instructions)

LOADS

Rated current per load channel	Max. 16 A
Terminals / Cable cross section	Spring-loaded terminals up to 4 mm ² Push-in terminals up to 4 mm ² (depending on the version, see mounting instructions)

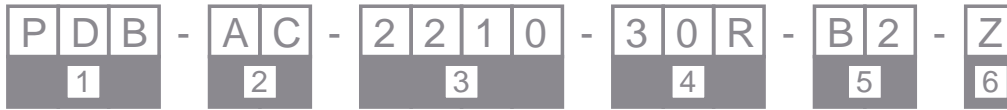
GROUP SIGNALLING

Series connection	Make contacts of the auxiliary contacts are connected in series. Max. 0.5 A, max. 1.5 mm ²
Parallel connection	Break contacts of the auxiliary contacts are connected in parallel, with decoupling relay Max. 0.5 A, max. 1.5 mm ²

AMBIENT CONDITIONS

Ambient temperature	0...+50 °C
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ORDERING NUMBER CODE



1 TYPE NUMBER

PDB Power Distribution Box

2 VOLTAGE TYPE

AC AC 230 V

3 DEVICE TYPES

2210 2210 circuit breaker, 1-pole

4 NUMBER OF LOADS AND DESIGN VERSION

30E Non-redundant 1 x 30 loads

30R Redundant 2 x 15 loads

5 SIGNALLING

B1 Group signalling series connection per group

B2 Group signalling, parallel connection per group with relay (AC 230 V only)

6 TERMINAL POSITION

Z With screw terminals on mounting rail

Looking for a customer-specific version you cannot find in our ordering number code? Please get in touch with us. Circuit protectors are not included in the delivery scope.

PREFERRED TYPES

Preferred types	Short description
PDB-AC-2210-30E-B2	2210, 1-pole, non-redundant, series/parallel connection signalling, no additional terminals
PDB-AC-2210-30R-B2	2210, 1-pole, redundant, series/parallel connection signalling, no additional terminals
PDB-AC-2210-30E-B2-Z	2210, 1-pole, non-redundant, series/parallel connection signalling, additional terminals
PDB-AC-2210-30R-B2-Z	2210, 1-pole, redundant, series/parallel connection signalling, additional terminals

COMPLIANCE

Compliance according to EN 62368-1

DIMENSIONS

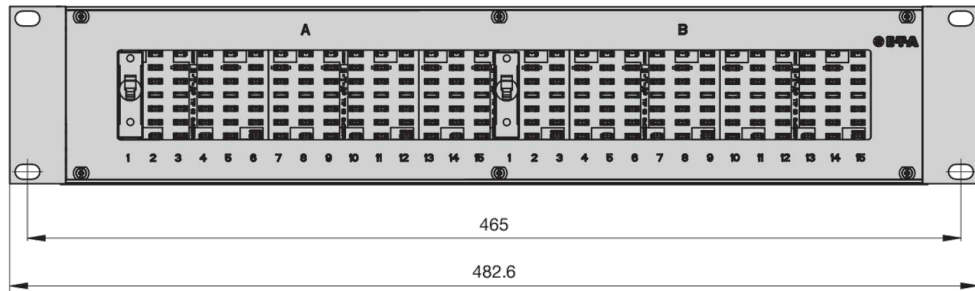
DIMENSIONAL DRAWING

Front view/example: 2210, non-redundant



DIMENSIONAL DRAWING

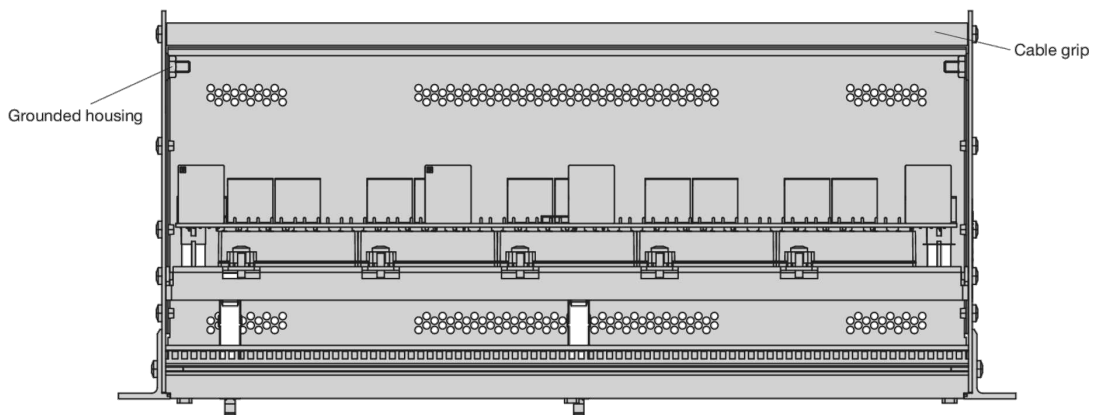
Front view/example: 2210, redundant



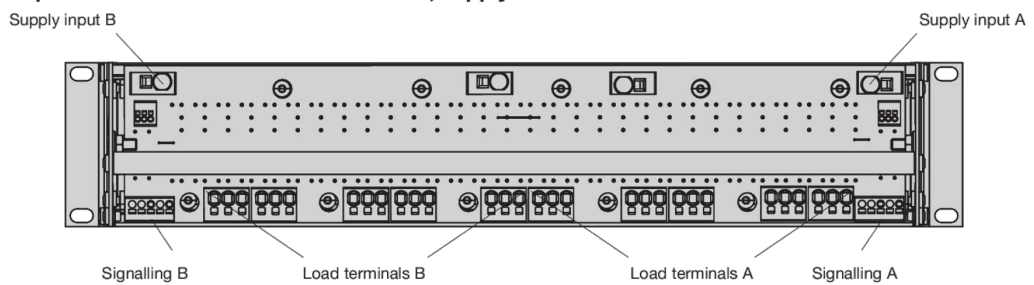
DIMENSIONAL DRAWING

Example: PDB-AC-2210-30E-B2

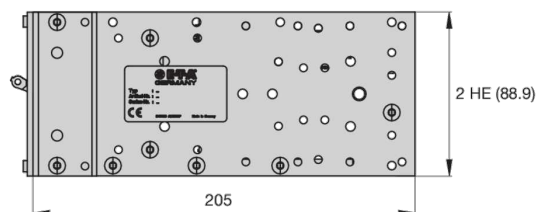
Top view (open cover)/example: no additional terminals on DIN rail, supply terminals on PCB



Rear view/example: no additional terminals on DIN rail, supply terminals on PCB



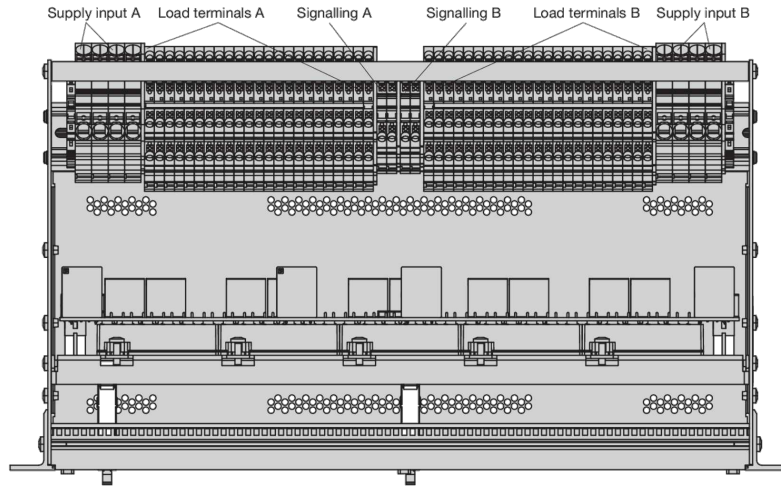
Side view/example: no additional terminals on DIN rail, supply terminals on PCB



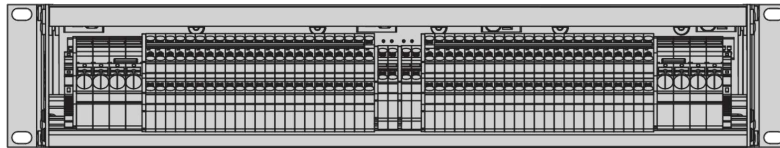
DIMENSIONAL DRAWING

Example: PDB-AC-2210-30R-B2-Z

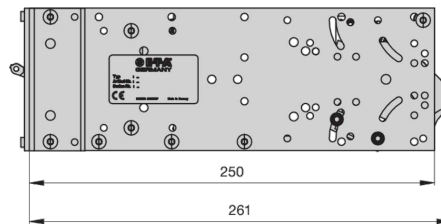
Top view (open cover, no wiring)/example: with additional terminals on DIN rail



Rear view/example: additional terminals on DIN rail



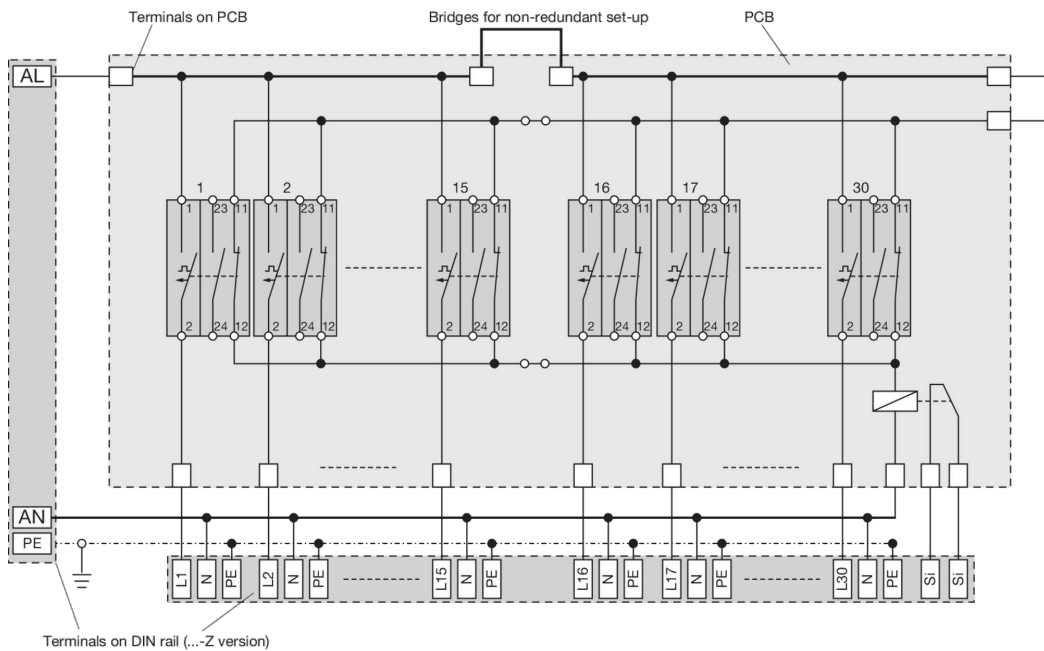
Side view/example: additional terminals on DIN rail



SCHEMATIC DIAGRAMS

SCHEMATIC DIAGRAMS

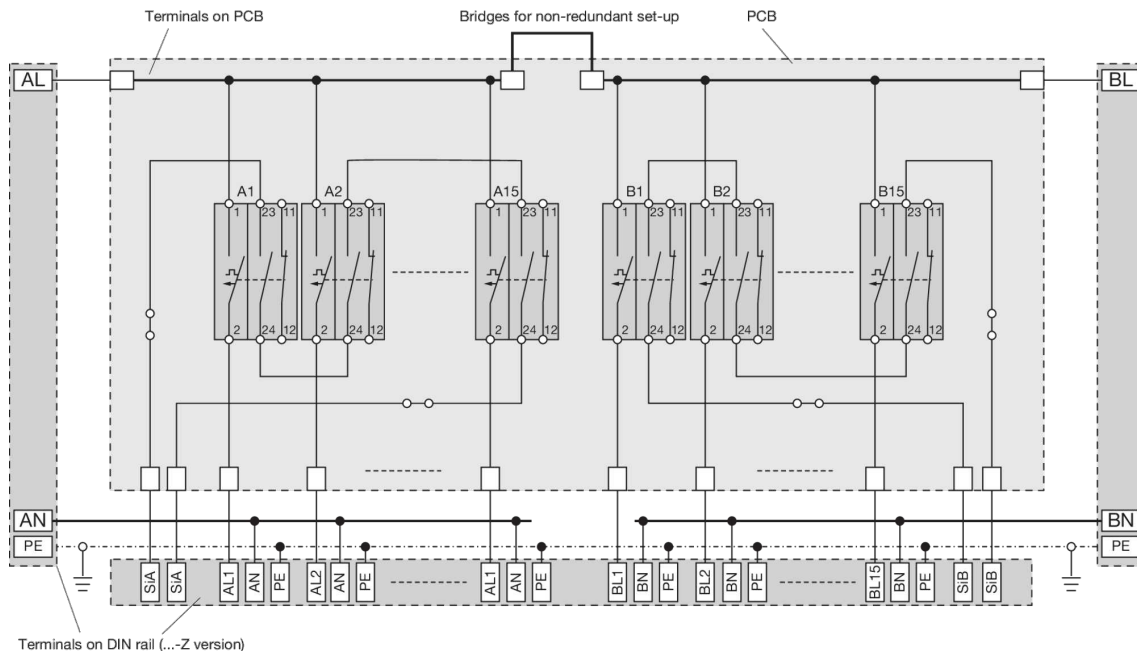
Flexible Power-D-Box® AC schematic diagram (signalling B2)



Note: Depending on the version, the schematic diagram may vary in detail. This diagram shows the general options. You can find further information for version-specific installation instructions at the end of the document.

SCHEMATIC DIAGRAMS

Flexible Power-D-Box® AC schematic diagram (signalling B1)



Note: Depending on the version, the schematic diagram may vary in detail. This diagram shows the general options. You can find further information for version-specific installation instructions at the end of the document.

ACCESSORIES

REQUIRED ACCESSORIES

X22206601 C	Bridging of the looped-through auxiliary contacts via jumper instead of circuit breakers (series connection)
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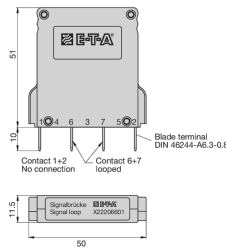
OPTIONAL ACCESSORIES

Y30856301	Blind cover for Power-D-Box® (Device types 3600/3900, 2210)	
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FURTHER INFORMATION ABOUT ACCESSORIES (DRAWINGS)

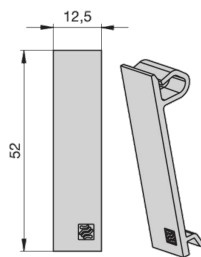
ACCESSORIES

Signal loop
Plug-in module for circuit breakers
to bridge the looped auxiliary contacts
(series connection)
Part no. X 222 066 01
for 2210 and 3600

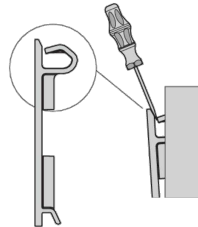


ACCESSORIES

Blind cover for Power-D-Box
(circuit breaker types 3600/3900, 2210)
Y 308 563 01




Removal of the blind cover:
Use the screw driver to snap off at the lever edge



FURTHER PRODUCTS

RELATED PRODUCTS

<p>2210-S2</p> <p>Single- or multi-pole thermal-magnetic circuit breaker with toggle actuation, panel or terminal block mounting, independent trip-free mechanism, various characteristic curves, disconnection of all poles. Optionally available with auxiliary contacts and intermediate positions. Special version of the auxiliary contacts for industrial atmosphere and low voltage equipment (e.g. 5 V) upon request.</p> <p>They meet the requirements of the circuit breaker standard EN 60934 (IEC 60934): S-type, TM.</p> <p>Suitable for the use in power distribution systems - see power distribution systems product group - customer-specific solutions.</p>	
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All information and data given on our products are accurate and reliable to the best of our knowledge, but E-T-A does not accept any responsibility for the use in applications which are not in accordance with the present specification. E-T-A reserves the right to change specifications at any time in the interest of technical improvement. Dimensions are subject to change without notice. Please enquire for the latest dimensional drawing with tolerances if required. All dimensions, data, pictures and descriptions are for information only and are not binding. Amendments, errors and omissions excepted. Ordering part numbers may differ from the device marking.