② 国际系 Flexible Power-D-Box[®] for 2210 AC version

Description

The flexible **Power-D-Box**[®] system is a sophisticatedly designed power distribution system for AC applications in a 19" rack with only 2 HE. 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 fuse element. For optimum utilisation of the available installation space, different group signalling and terminal connection options are available, as well as an optional, freely configurable system redundancy.



Flexible Power-D-Box® for AC

Features

- 19" power distribution system, made of aluminium
- For 30 or 2 x 15 pluggable 2210 circuit breakers, more upon request
- Redundant or non-redundant set-up
- Supply current up to 2 x 75 A
- Rated voltage up to AC 230 V
- Max. load current up to 16 A
- Terminals with spring force or push-in terminals
- Group signalling

Your benefits

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

Preferred types - for details regarding all product versions please see ordering number code

Preferred types are E-T-A products which are most frequently used by our customers.

They feature a beneficial price and shorter lead times.

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



Instructions

You will find the installation instructions for each possible version via $\ensuremath{\mathsf{QR}}$ code on the last page.

@ 国际A Flexible Power-D-Box[®] for 2210 AC version

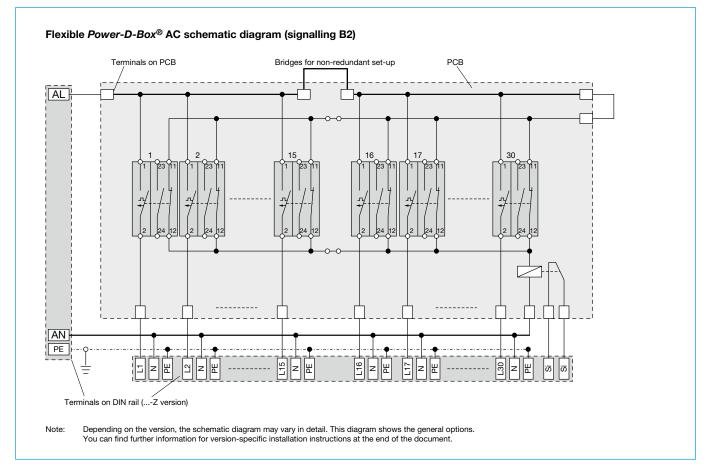
Technical data	
General data	
Voltage ratings	AC 230 V (AC 10250 V depending on ver- sion)
Protected pole	L phase
Circuit breakers/ circuit protectors	Plug-in type 2210-S circuit breakers (1pole), more upon request
Number of loads	Up to 30
Redundancy	Optional according to ordering num- ber code
Compliance	According to EN 62368-1
Operating temperature range	0 50 °C
Mechanical data	
Dimensions	Width: 482.6 mm (19" mounting) Height: 88.90 mm (2 HE) Depth: 205 mm – 261 mm
Material	Aluminium
Grounded housing	Available for each supply input
Cable grip	Pre-mounted
Total weight	3.44 kg – 5.09 kg You can find more details in the installation instructions
Supply	
Total current per supply	max. 75 A
Terminals / Terminals on PCB / Cable cross section	Spring-loaded terminal / up to 25 mm ²
Terminals / Additional ter- minals on DIN rail / Cable cross section	Push-in terminals / up to 25 mm ²
Loads	
Current rating per load channel	max. 16 A
Terminals / Terminals on PCB / Cable cross section	Spring-loaded terminals / up to 4 mm ²
Terminals / Additional ter- minals on DIN rail / Cable cross section	Push-in terminals / up to 4 mm²
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 via decoupling relay. Max. 0.5 A, max. 1.5 mm ²

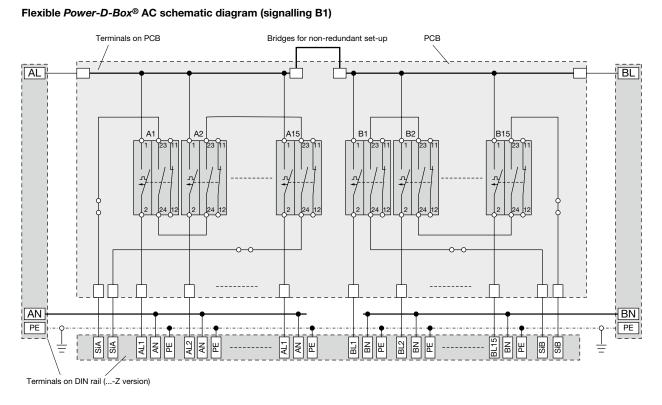
Ordering number code

PDB Power Distribution Box

AC			
2210 Circuit breaker, 1-pole			
30E Non-redundant 1 x 30 loads			
30R Redundant 2 x 15 loads			
B1 Group signalling, series connection per group			
B2 Group signalling, parallel connection per group via relay (only AC 230 V)			
Z With screw terminals on mounting rail			
PDB-AC-2210-30R-B2-Z Ordering example			

Schematic diagrams

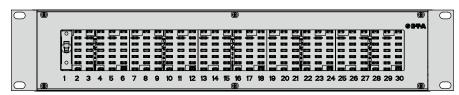




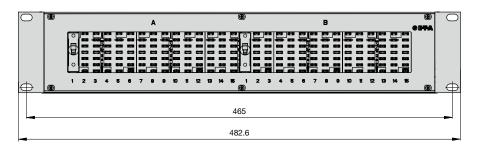
Note: Depending on the version, the schematic diagram may vary in detail. This diagram shows the general options. You can find further information for version-specific installation instructions at the end of the document.

Dimensions

Front view/example: 2210, non-redundant

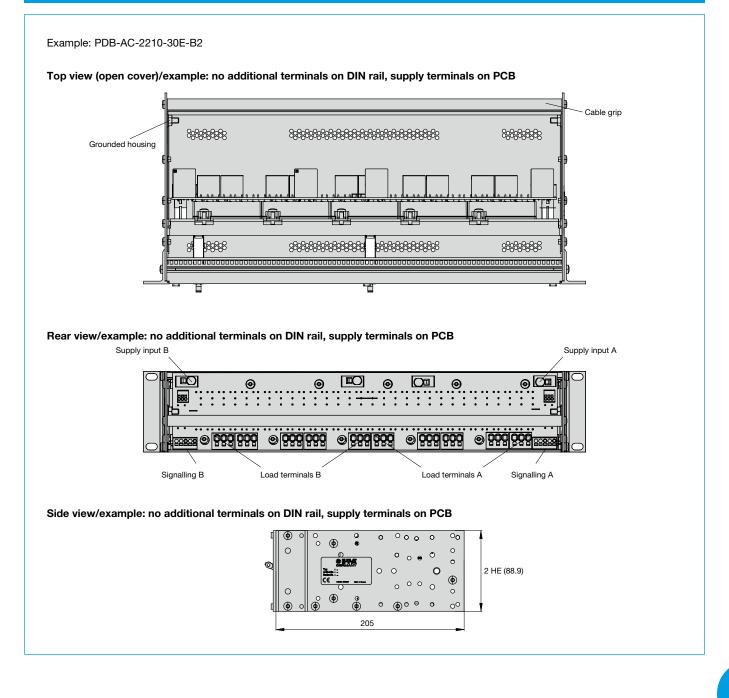


Front view/example: 2210, redundant



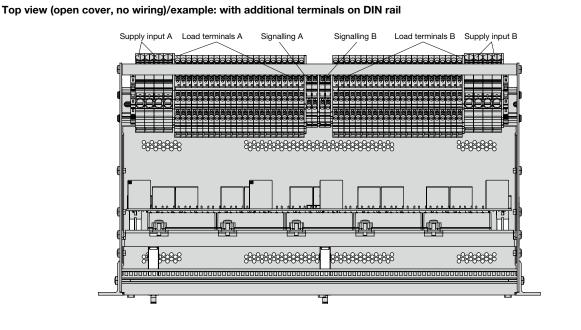
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Dimensions



Dimensions

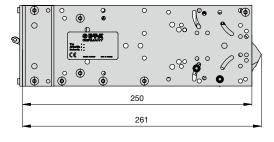
Example: PDB-AC-2210-30R-B2-Z



Rear view/example: additional terminals on DIN rail

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Side view/example: additional terminals on DIN rail



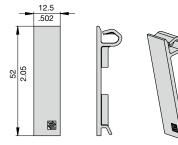
② 国行会 Flexible Power-D-Box[®] for 2210 AC version

Accessories

2210 circuit breakers

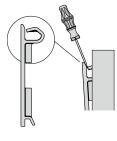
Blind cover for Power-D-Box

(circuit breaker types 3600/3900, 2210) Y 308 563 01



Removal of the blind cover:

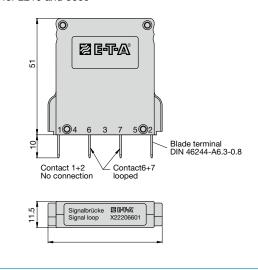
Use the screw driver to snap off at the lever edge



2210 circuit breakers

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



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 improved design, performance and cost effectiveness. 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 codes of the products may differ from their marking.

Installation instruction

For more details:

Follow the QR code for the current installation instruction of your "Flexible *Power-D-Box*[®]". You will find detailed information using the selected ordering number code.

Installation instruction:

Flexible *Power-D-Box*[®] AC for 2210 (positive pole protected) mechanical circuit breakers

