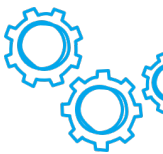


Flexible Power-D-Modules AC

The flexible **Power-D-Module AC** with printed circuit board is a compact power distribution system, designed as a rack made of profiled aluminium sheets for direct mounting, e.g. on the rear panel of a control cabinet. By rotating the snap-on fixtures, the module can also be mounted in a 19" rack. The 2210 or 3600 thermal-magnetic circuit breakers can be plugged into the base system at a base height of 3 HU. 24 single pole or 12 double pole channels are available as a redundant or non-redundant system. The integral group signalling works optionally as series connection of the make contacts or parallel connection of the break contacts. The entire internal circuitry is designed as a printed circuit board. The unprotected pole is also being patched in the distribution.



### TYPICAL FEATURES

- Compact 19" rack with 3 HE
- Rated voltage AC 230 V
- 1-pole L phase
- 2-pole L and N phase
- Max. 50 A per supply unit
- For 24 pluggable 2210 1pole circuit breakers
- For 12 pluggable double-pole 2210 circuit breakers ESS30 circuit protectors, more upon request
- Max. load current up to 16 A
- Redundant or non-redundant set-up
- Group signalling (also without signal loops)

### YOUR BENEFITS

- Compact, space-saving, clear design through PCB
- Time-saving connection via spring-loaded terminals
- Increased machine uptime through resettable circuit breakers
- Flexibility through pluggable circuit breakers
- Powerful performance for total currents up to 50 A
- Increased operational availability through group signalling
- Significantly reduced number of individual components through pre-assembly

### 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 technology; chemical industry, oil and gas, renewable energies, pharmaceuticals and foodstuffs, telecommunications & datacom

### COMPLIANCE



### WEB LINKS

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

### GENERAL INFORMATION

#### FURTHER INFORMATION



Mounting instruction for AC power distribution module for 2210 thermal-magnetic circuit breakers  
[https://www.e-t-a.de/pdm\\_ac\\_2210.pdf](https://www.e-t-a.de/pdm_ac_2210.pdf)

### TECHNICAL DATA

#### ELECTRICAL DATA

Rated voltage $U_n$	AC 230 V
Protected pole	1-pole L 2-pole L and N
Circuit breakers / circuit protectors	Plug-in type 2210-S circuit breakers (1 & 2-pole)
Redundancy	Optionally according to ordering number key

#### MECHANICAL DATA

Mounting dimensions (WxHxD)	Width: 426.72 mm x Height: 133.35 mm (3 HU) / 177.9 mm (4 HU) with cable organisers x Depth: 152 mm
Mass	3.07...3.76 kg
Material	Aluminium
Enclosure grounding	Available for each supply
Cable strain relief	Optional

#### SUPPLY

Total current per supply	Max. 50 A
Terminals / Cable cross section	Spring-loaded terminals up to 10 mm <sup>2</sup>

#### LOADS

Rated current per load channel	Max. 16 A
Terminals / Cable cross section	Spring-loaded terminals up to 2.5 mm <sup>2</sup>

#### GROUP SIGNALLING

Series connection	Make contacts of the auxiliary contacts are connected in series
Parallel connection	Break contacts of the auxiliary contacts are connected in parallel, with decoupling relay Max. 0.5 A, max. 2.5 mm <sup>2</sup>

#### AMBIENT CONDITIONS

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



#### 1 TYPE NUMBER

PDM	Power Distribution Module
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#### 2 VOLTAGE TYPE

AC	AC 230 V
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### 3 DEVICE TYPES

2210	Thermal-magnetic 2210 circuit breaker, 1-pole protected
2210-2P	Thermal-magnetic 2210 circuit breaker, 2-pole protected

### 4 NUMBER OF LOADS AND DESIGN VERSION

24E	Non-redundant, 1 x 24 channels 1-pole / 1 x 12 channels 2-pole protected
24R	Redundant, 2 x 12 channels 1-pole / 2 x 6 channels 2-pole protected

### 5 SIGNALLING

B1	Group signalling series connection without relay
B2	Group signalling parallel connection with relay (AC 230 V only)

### 6 TERMINAL POSITION

K	With cable organizers (1 HU)
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Circuit protectors are not included in the delivery scope.

## PREFERRED TYPES

Preferred types	Short description
PDM-AC-2210-24E-B2-K	1-pole protected, non-redundant, with cable organizer
PDM-AC-2210-24R-B2-K	1-pole protected, redundant, with cable organizer
PDM-AC-2210-2P-24E-B2-K	2-pole protected, non-redundant, with cable organizer
PDM-AC-2210-2P-24R-B2-K	2-pole protected, redundant, with cable organizer

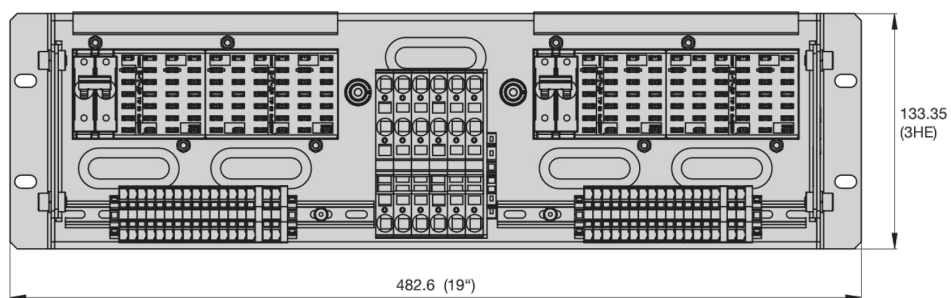
## COMPLIANCE

Compliance accord- ing to EN 62368-1

## DIMENSIONS

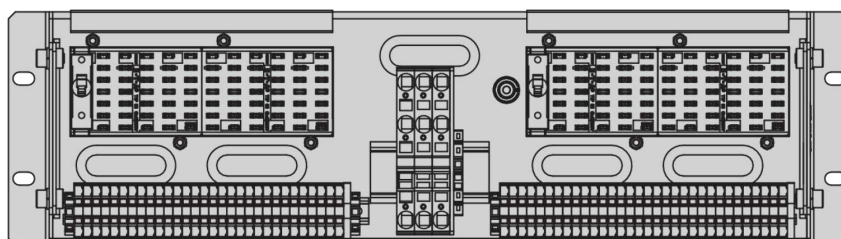
### DIMENSIONAL DRAWING

Front view/example: 2210, 2 pole, redundant



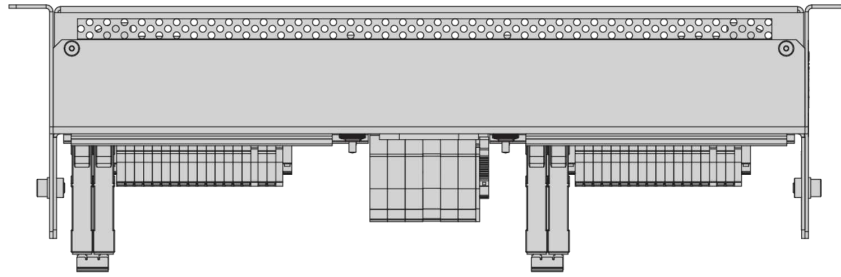
### DIMENSIONAL DRAWING

Front view / example: 2210, 1 pole, not redundant



### DIMENSIONAL DRAWING

Top view (open cover)/example: 2210, 2 pole, redundant



### DIMENSIONAL DRAWING

Side view/version: PDM-AC-2210-2P-24R-B2-K

Example, redundant, 2pole protected, with optional cable management (...-K)

Figure for mounting plate installation  
(snap-on fixture at the back)

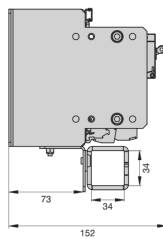
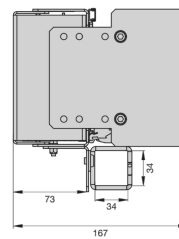


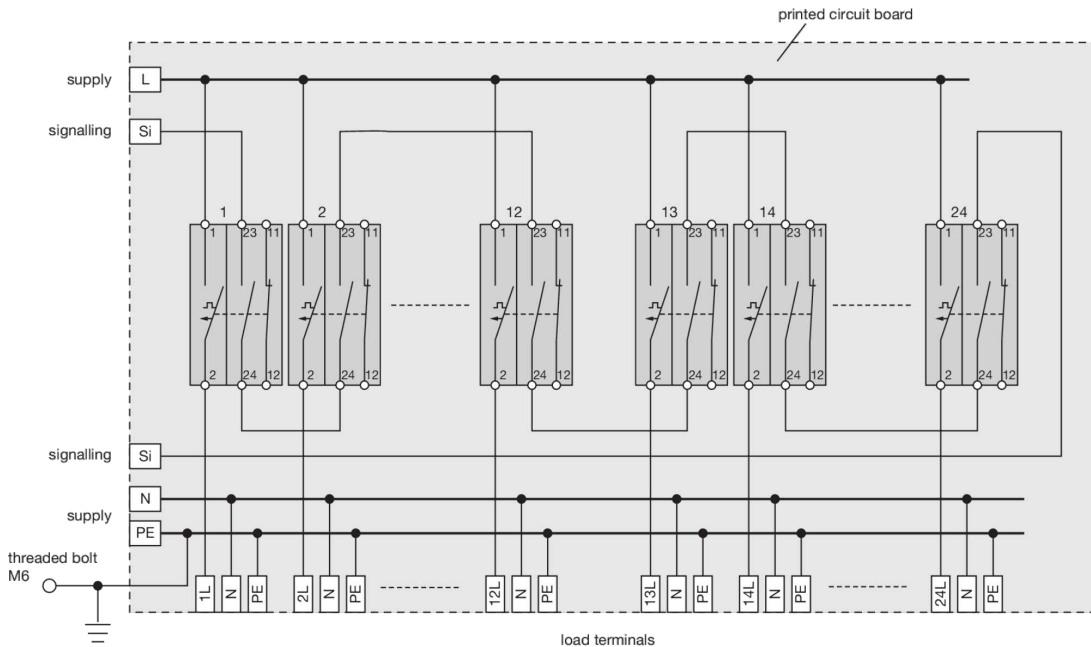
Figure for 19" rack installation  
(snap-on fixtures at the front)



### SCHEMATIC DIAGRAMS

#### SCHEMATIC DIAGRAMS

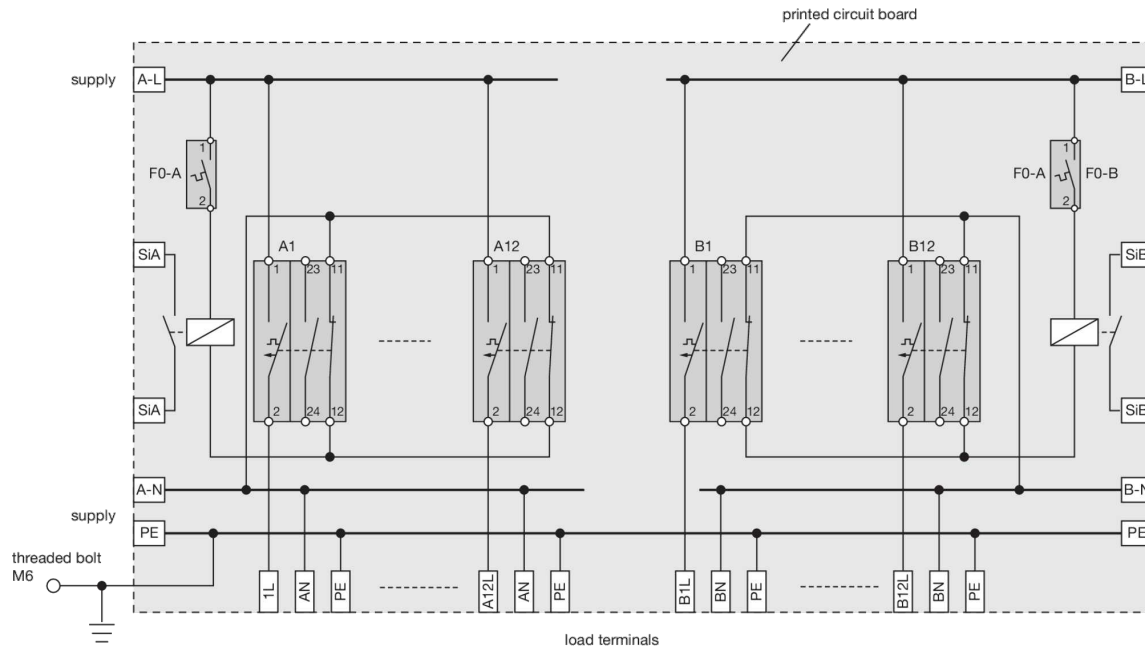
Power-Distribution-Modul AC schematic diagram (2210, non-redundant)



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

Power-Distribution-Modul AC schematic diagram (2210, redundant)



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

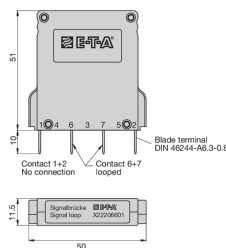
#### OPTIONAL ACCESSORIES

X22206601 C	Bridging of the looped-through auxiliary contacts via jumper instead of circuit breakers (series connection)
Y31283501	Transparent cover PDM

### FURTHER INFORMATION ABOUT ACCESSORIES (DRAWINGS)

#### ACCESSORIES

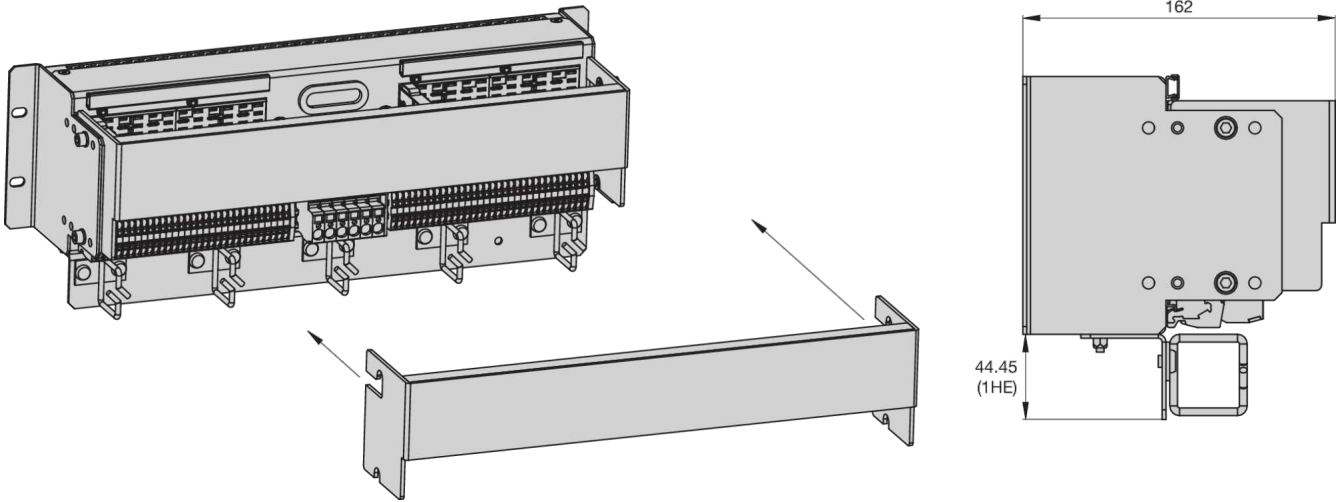
**Signal loop**  
 Plug-in module for circuit breakers  
 to bridge the looped auxiliary contacts  
 (series connection)  
**Part no. X 222 066 01**  
 for 2210 and 3600



### ACCESSORIES

#### Acrylic glass and Signal loop

PDM-AC-2210-24E-B2-K with acrylic glass cover (Ordering no. Y31283501) for retrofit mounting as actuation protection



### FURTHER PRODUCTS

#### RELATED PRODUCTS

##### 2210-S2

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.

They meet the requirements of the circuit breaker standard EN 60934 (IEC 60934): S-type, TM.

**Suitable for the use in power distribution systems - see power distribution systems product group - customer-specific solutions.**



##### 3600

Single pole thermal-magnetic circuit breakers with manual release button. Plug-in design with auxiliary contacts and optional intermediate position. Snap-action mechanism and independent trip-free mechanism guarantee reliable a switching behaviour. A shunt terminal (-3) is provided as standard. Up to  $I_n$  7 A, it has no influence on the tripping mechanisms and can be loaded up to 5 A. Its low internal resistance makes the 3900 particularly suitable for low voltage applications. They meet the requirements of the circuit breaker standard EN 60934 (IEC 60934): M-type, TM.



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.