

SIEMENS



LOW- VOLTAGE POWER DISTRIBUTION

ALPHA 3200 Eco switchboards

3D engineering and integrated systems
for sustainable power distribution

[siemens.com/alpha](https://www.siemens.com/alpha)

Holistic solutions for modern power distribution

Efficient, digital, and resource-saving –
for secure infrastructures

Efficient building management starts with reliable power based on low-voltage distribution systems. Numerous requirements for safe system operation and energy efficiency further increase complexity.

ALPHA 3200 Eco switchboards fulfill all requirements of modern power distribution in building infrastructures. They are holistic solutions from a single source and are part of a consistent system that is complemented by the SENTRON portfolio of protection, switching and measuring devices - all perfectly integrated and fully compatible.

Perfectly equipped for renewable energies

Thanks to an integrated transformer metering section, the ALPHA 3200 Eco switchboard is ideal for applications with renewable energies – from solar and wind power to decentral infeed. This enables precise, secure and grid-compatible measurements even at higher power levels – to perfectly equip you for the energy transition.

Tested & certified:

- System for creating a type-tested switchboard mounting process according to IEC 61439
- Integrated transformer measurement section for power measures conforming with DIN VDE 0603-2-2 and DIN 42600-2
- Sustainable throughout the whole lifecycle – certified with the Siemens EcoTech label

Your benefits at a glance

Carefully designed solutions for greater efficiency
and security



Saving resources

- Save up to 30% of copper thanks to centrally positioned busbar and countless design breaks
- Optimized for up to In 3,200 A and 2,000 kVA transformers



Practical

- Increased planning safety due to 3D engineering
- Application-related certifications



Modular

- Modular system concept
- High packing density
- High functionality in a compact space due to flexibility of ALPHA assembly kits



Digital

- Comprehensive software offering
- Data provision in multiple formats (STEP, EHRT, BIM)

Software tools for fully digital engineering

Integrated engineering with SIMARIS tools –
from planning to operation

With the SIMARIS tools, you are perfectly equipped for electrical planning and configuration. The tool landscape contains all the functionalities you need for switchboard engineering, including a digital twin of your ALPHA 3200 Eco switchboard.



SIMARIS project:
Planning and tenders

The SIMARIS project software offers a quick overview of the spatial requirements for power distribution within a building, from medium-voltage down to the small distribution boards.



SIMARIS configuration:
Configuration and documentation

The SIMARIS configuration software supports a fully digital engineering process – from project development, calculation and offer creation to compliant documentation of the distribution systems.



SIMARIS xchange:
Provision of 3D data

The SIMARIS xchange software provides detailed 3D data that can be visualized in the integrated viewer or exported for use in other programs. This data serves as the basis for quick and easy copper generation.



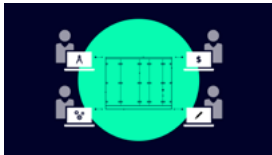
SIMARIS therm:
Power loss calculation

Check and evaluate the warming of your switchboard configuration with SIMARIS therm software by entering the ambient temperature and choosing the relevant devices in the system cabinet.

Switchboard engineering with the **digital twin**

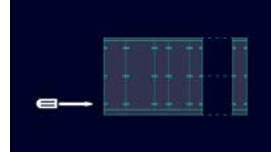
Detailed visualization down to the last screw

The 3D processor allows you to directly export the digital twin of your switchboard from SIMARIS configuration and output it as a STEP file via SIMARIS xchange. The detailed 3D model supports planning, installation, maintenance and expansion – for higher precision, fewer errors, and to save time.



Enhanced planning reliability

The digital twin significantly simplifies coordination with other system specialists. It can be seamlessly integrated into building models and used for collision detection. Thanks to the highly detailed data, room for interpretation is reduced, resulting in more reliable and accurate planning.



Easy and error-free installation

The 3D model provides an ideal basis for simple and precise assembly with detailed visualization down to the smallest component. By minimizing room for interpretation, the risk of assembly errors is significantly reduced.



Effortless generation of copper parts

By importing the STEP data into CAD systems, you can extract the exact dimensions of your switchboard's copper parts directly from the digital twin. This reduces the time and effort needed for dimensioning by up to 90%.



Uncomplicated maintenance and expansion

Maintenance work, expansion, and module replacement are easily managed thanks to the 3D model. Using the 3D processor, you can quickly update and re-export the digital twin at any time to ensure that it always reflects the current state of your switchboard.

ALPHA 3200 Eco switchboard

Reliable technology for efficient power distribution
rated up to 3,200 A



1

Circuit breaker technology ACB

- SENTRON 3WA air circuit breaker with up to 3,200 A
- Compact or expanded design available (+200 mm)

2

Circuit breaker technology MCCB

- Full integration of SENTRON 3VA molded case circuit breaker with up to 1,600 A

3

Transformer metering section

- Measuring point in accordance with DIN VDE 0603-2-2 and DIN 42600-2

4

Coupling section

- SENTRON 3WA air circuit breaker with up to 3,200 A

5

In-line design (fixed installation)

- Fuse switch disconnectors up to 1,250 A
- Security monitoring always upgradable

6

ALPHA DIN installation technology

- Fully compatible with the installation kits for the ALPHA distribution board
- Panel width up to 1,100 mm

7

Corner section

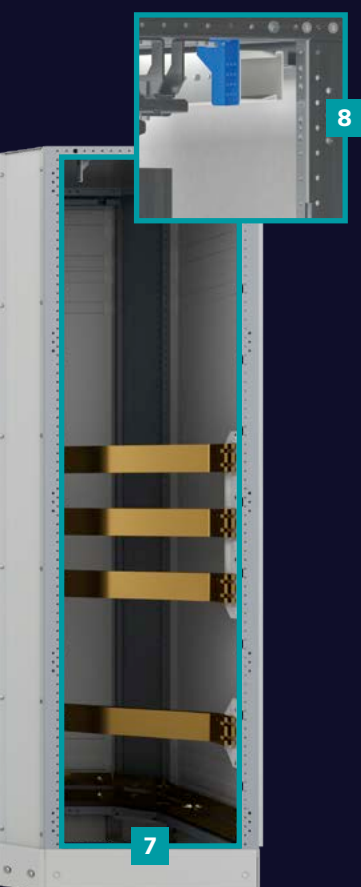
- Optimized for installations in inside corners

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Cross-wiring compartment

- Control wiring perfectly organized across panels

Technical data



System for installation of a type-tested ALPHA 3200 Eco switchboard

Protection system	IEC 60529, EN 60529	IP31, IP54
	Rated current (In)	3.200 A
Busbar	Rated operational voltage (Ue)	400 V
	Rated peak withstand current (Ipk)	165 kA
	Rated short time withstand current (Icw)	75 kA, 1 s
Dimensions	Height	2.000 mm
	Depth	400 mm/600 mm
Standards and provisions	System for installation of a type-tested switchboard	IEC 61439-1/-2
Form of internal separation		Form 1 (with touch protection)



Type-tested in accordance with IEC 61439

Receive application-based and transparent technical data directly from SIMARIS configuration

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