Safe investment.
Increased productivity.
High performance.

ALPHA 3200 power distribution boards
The ALPHA 3200 power distribution board has been specially optimized for building infrastructure applications. It combines our many years of expertise in the area of electrical power distribution with innovative technology. Our consistent, end-to-end portfolio of ALPHA distribution systems thus covers applications ranging from 160 A to 3,200 A.
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Demands on electrical power distribution are constantly increasing – from design through to operation. The trend toward Smart Building demands systems and products that are flexible and communications-capable. The requirements set forth by standards are growing more complex. At the same time, project cycles and business processes in panel building are becoming faster and faster.

Our intelligent systems and products for electrical power distribution are rigorously structured to accommodate these enhanced requirements. High-quality and standards-compliant, they help panel builders throughout the value-added process and are thus a safe investment.
Consistent system in accordance with IEC 61439

Our ALPHA distribution boards offer a consistent, end-to-end system up to 3,200 A, with enclosures and components perfectly coordinated with one another. The SIMARIS configuration software provides you with support throughout the engineering process. The ALPHA power distribution boards are design-verified according to IEC 61439.

Powerful – the ALPHA 3200 power distribution board

The ALPHA 3200 power distribution board is ideal for use in building infrastructure. For applications in the lower voltage range, the system includes the 8GK installation systems and thus the full flexibility of the ALPHA portfolio. The single conductor main bus bar system provides a larger surface area to dissipate heat, reducing the need for copper. The drill-free assembly of the main bus bars reduces the effort needed for copper preparation and assembly.

Innovative, communication-capable components

The protection, switching, measuring, and monitoring devices in the SENTRON family satisfy all the demands of state-of-the-art power distribution – small construction, flexible assembly method, and communications-capable components to increase transparency with regard to system status and power flows.

Simplified construction processes

The SIMARIS configuration software provides support for rapid configuration of your distribution systems, from enclosure to components, from power distribution to distribution boards, and from configuration and preparing your bids, to ordering and documentation in accordance with IEC 61439.

Highlights

• Increased productivity and design reliability due to software support
• Powerful overall system with innovative components from a single source
• Safety for people and equipment thanks to design verification in accordance with IEC 61439-1/-2

With the ALPHA distribution systems, along with innovative protection, switching, measuring, and monitoring devices from the SENTRON family, our portfolio offers consistent end-to-end power distribution for building infrastructure applications.
3NJ4 in-line fuse switch disconnectors

3NP1 fuse switch disconnectors

3NJ6 switch disconnectors with fuses

3WL air circuit breakers

7KM PAC measuring devices

Reactive power compensation

ACB or MCCB circuit-breaker system

In-line design (fixed mounting)

In-line design (plug-in system)

Fixed mounting design
ALPHA 3200 – a powerful system

Perfect combination

The ALPHA 3200 power distribution board and the protection, switching, measuring, and monitoring devices in the SENTRON family are designed to cope with the many complex demands of panel building. The coordinated portfolio enables flexible solutions that are easy and quick to implement for fail-safe, efficient power distribution.

The SIMARIS configuration software supports you throughout the entire engineering process.

1 Project data
2 Configuration
3 Calculation
4 Documentation
Increased productivity right through to operation

The SIMARIS configuration software guarantees quick and easy configuration of the ALPHA distribution systems.

Simplified processes
SIMARIS configuration supports the entire process for panel builders – from configuring the power distribution board through to calculation and preparation of the offer, and to system documentation in compliance with IEC 61439. The configuration software comprises the entire portfolio of ALPHA power distribution boards.

Significant time saving
Operation of the configuration software is intuitive. Structured menus and the graphical display of selection options simplify and accelerate configuration.

Enhanced fail-safe planning
During configuration, errors are automatically displayed so they can be immediately corrected. The intelligent preselection of devices after the function has been defined and their automatic placement are features that enhance fail-safe planning and help prevent errors. The integrated power loss calculation optimizes correct dimensioning of heat dissipation from the power distribution board.

Increased productivity right through to operation

The SIMARIS configuration software guarantees quick and easy configuration of the ALPHA distribution systems.

SIMARIS configuration software – easy and quick configuration of distribution systems: siemens.com/simarisconfig
Convenient bid preparation
The configuration of devices (order number-specific) from the SENTRON portfolio and the integrated price calculation make the bid preparation process faster. The software even performs the copper calculation. Parts lists can be generated at the click of a mouse, which simplifies the ordering process still further.

Speedy start capability
Views, for example frontal or cutaway views in DXF or DWG format, can be edited using CAD programs, while the single-line circuit diagram makes for simple system documentation. The appropriate certificates and test certification in accordance with IEC 61439 are provided.

Safety assured through additional testing
The ALPHA 3200 power distribution board is a switchgear assembly with design verification according to IEC 61439-1/-2, which ensures safety for both people and equipment. Both mechanical and electrical testing cover, including internal arcing tests, exceed the levels required by the standards. All certificates and current supporting documentation are available with the SIMARIS configuration software.

Value-added as needed
The ALPHA 3200 power distribution board is available preassembled with or without copper. Project-specific copper drawings can be issued. Production work can begin even before the power distribution board has been delivered.

Highlights
- Fail-safe planning through integrated error checking and power loss calculation
- End-to-end support throughout the entire project life cycle saves time
- Comprehensive system documentation available at the click of a mouse

System documentation in compliance with IEC 61439
Panel builders can order the power distribution board with or without copper – to suit their own value-added process.
Carefully thought-out technology

**Increased safety for people and equipment**

- **Roof plate with pressure relief** – guarantees ideal protection in the event of arcing.
- **Patented sealing system** for basic or central locking – provides reliable resistance in the event of arcing.
- **Lockable pivot lever system** – to protect against unauthorized operation.

**Highly cost-effective assembly and operation**

- **Optimized single-conductor main bus bar systems** with reduced copper requirement – facilitates ALPHA installation system integration.
- **Drill-free connection** to main bus bars and structure using subconductor systems – enables rapid assembly and increased current-carrying capacity, while saving on copper use.
- **Modular enclosure** – optimally coordinated with innovative, communication-capable SENTRON components.

**Maintenance-free bus bar connections** – make installation easier.

**ALPHA 3200 power distribution board**

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Unanswered questions?
One click and you’re well informed

We support you from the planning stages to commissioning to operation.

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All low-voltage switchgear assemblies in the European Economic Area must meet the IEC 61439 standard.
Siemens supports you by providing the right products and practical assistance.

Find out more online: siemens.com/lowvoltage
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