

„Know-how in four dimensions:
independent thinking
for individual solutions.“



NATUS

INDUSTRIAL SOLUTION SYSTEMS

Company's headquarters in Trier / Germany

State-of-the-art manufacturing technology in Germany's oldest city –
in the heart of Europe | founded 1956 | family-owned enterprise
in third generation | turnover 80 Mio. € | 500 employees |
25.000 m² manufacturing area in Trier



NATUS

INDUSTRIAL SOLUTION SYSTEMS

SWITCHGEARS

For decades we have been setting standards in innovation, safety and quality in our core business of switchgear systems.

AUTOMATION

We constantly develop reliable solutions that are specifically tailored to customers' needs in the field of automation and control technology.

SOLUTIONS

Our products and services range from switchgear systems, plant and process automation, project management, project engineering, industrial installation right through to integrated electrotechnical solutions as TURNKEY SOLUTIONS, instrumentation and control engineering.

SERVICES

The division Services focuses on an extensive range of products and services in order to ensure functionality of your energy distribution.



MEDIUM VOLTAGE Switchgear Systems

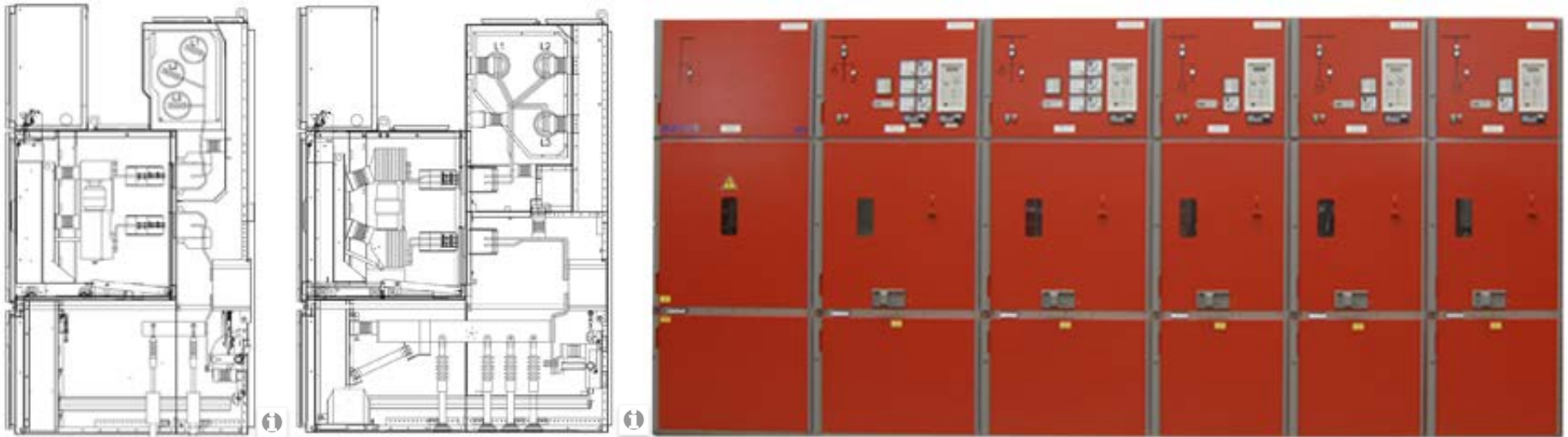
Own design and manufacturing | type, arc fault and earthquake tested | metal clad, air insulated | draw out type and truck type | single and double busbar system



MEDIUM VOLTAGE Switchgear Systems

Single busbar switchgear system NES / NES-H

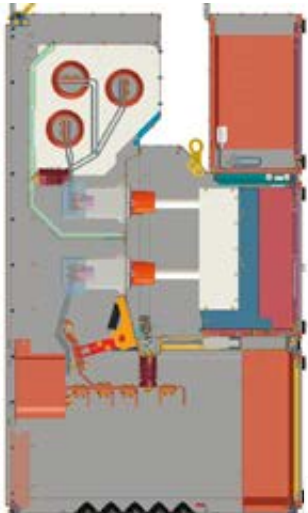
- Rated voltage: **up to 24 kV**
- Rated short-time withstand current: **up to 50 kA**
- Rated busbar current: **up to 4,000 A**



MEDIUM VOLTAGE Switchgear Systems

Single busbar switchgear system NESCOM

- Rated voltage: **up to 17,5 kV**
- Rated short-time withstand current: **up to 40 kA**
- Rated busbar current: **up to 2,500 A**



MEDIUM VOLTAGE Switchgear Systems

Double busbar switchgear system NES-D / NES-HD

- Rated voltage: **up to 12 kV**
- Rated short-time withstand current: **up to 50 kA**
- Rated busbar current: **up to 4,000 A**



LOW VOLTAGE Switchgear System

Draw-out type power distribution and motor control center (MCC) **ENERGON**
– for highest personal and plant safety

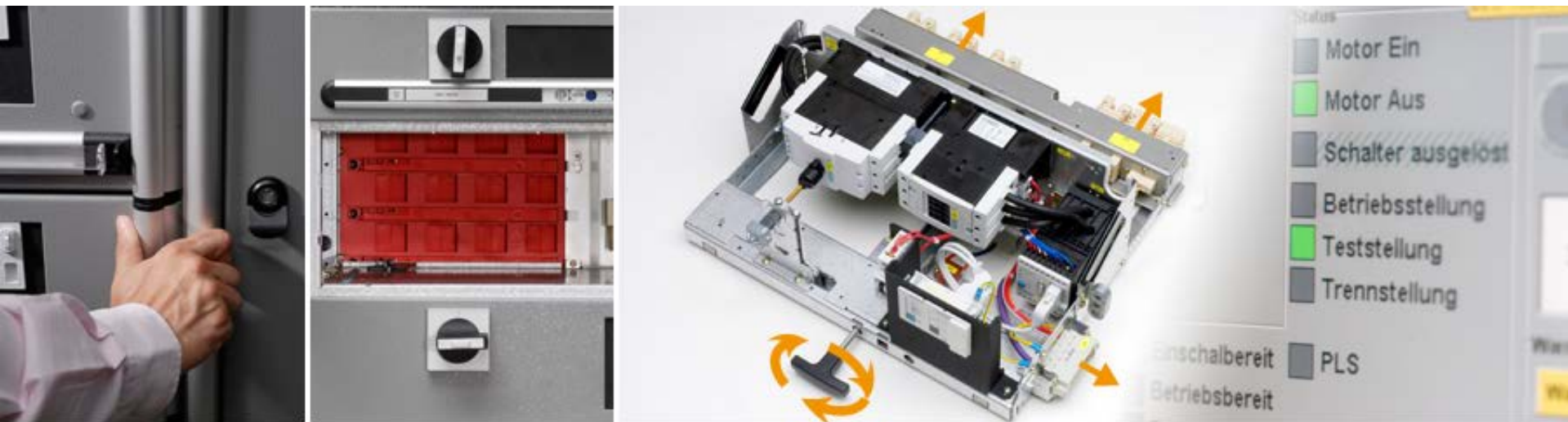
- Own design and manufacture, robust construction
- Type tested / design verification acc. to IEC/EN 61439
- Arc-fault tested acc. to IEC 61641, earthquake tested
- Utmost personal safety and plant availability
- Up to 6,300 A / up to 100 kA



LOW VOLTAGE Switchgear System

ENERGON Highlights

- CONTINUOUS LATCH: Arc-fault safe door closing mechanism, comfortable one hand operation
- ARC-SAFE: Fully encapsulated and arc-fault safe distribution busbar for drawer sections, „Automatic Shutter“
- DTS – Double Transfer System:
Contact mechanism for maximum personal safety, safe isolation of drawer (incoming/outgoing line), operator guidance and interlockings



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INDUSTRIAL SOLUTION SYSTEMS

ENERGON-FM

- Low Voltage distribution and Motor Control Center (MCC), fixed-mounted
- Product range ENERGON
- Up to 4,000 A / up to 100 kA



SWITCHGEARS

Distribution network core unit

Tailored combinable assembly of Components

- Medium-Voltage section (air insulated)
- Transformer cabinet
- Low Voltage section for busduct connection
- Low Voltage cable feeder section
- Low Voltage compensation



AUTOMATION and CONTROL TECHNOLOGY

Plant and process control

Turnkey delivery | Vendor independent hard and software |

Consulting / system design / Specification | Project management |

Engineering / parameterizing / documentation |

Testing / commissioning | Customer training | Maintenance / on-call duty



AUTOMATION and CONTROL TECHNOLOGY

- Electrical Control System (ECS)
- Fail Safe Control (FSC)
- Human Machine Interface (HMI)
- Supervisory Control And Data Acquisition (SCADA)

SIEMENS**ABB**

AUTOMATION and CONTROL TECHNOLOGY

- Enterprise Resource Planning integration (SAP, BaaN ...)
- Manufacturing Enterprise System
- Distributed Control System
- Process control instrumentation
- Process integration



Integrated electrotechnical turnkey solutions

- Engineering Consulting including project management
- On-site industrial assembly including installation and cabling
- Commissioning and turnkey handover to the customer



Project Engineering

- Project management
- Cable tray planning
- Lighting calculations
- Load flow and short-circuit calculations
- Earthing and lightning protection calculation



Service

- 24h service hotline +49 (0)651 1449- 555
- On-site maintenance, service and spare parts delivery worldwide
- Commissioning, erection and installation
- Retrofit



Integrated Management System

- **Quality management** DIN EN ISO 9001 certified since 1994
- **Occupational Health & Safety** BS OHSAS 18001 certified since 2011
- **Environmental Management** DIN EN ISO 14001 certified since 2012

Additional certificates:

- SCC checklist, SCC**
- Confirmation on quality assurance acc. to nuclear standard KTA 1401
- Type tests done by accredited test labs



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INDUSTRIAL SOLUTION SYSTEMS

Thank you for your kind attention!

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