

NATUS

INDUSTRIAL SOLUTION SYSTEMS

SO PRECISE!

AS MANUFACTURER

ENERGON low voltage switchgear system
as withdrawable and fixed mounted type





NATUS AS MANUFACTURER

SO PRECISE!

Why we focus on custom work...

Our customers have specific requirements. They need low- and medium-voltage switch-gear systems that are manufactured to their specifications. NATUS plans and develops the right, high-quality solution for any requirement – flexibly, quickly and individually. In doing so, our customers benefit from our patented technologies.

Fine yet robust mechanical systems form the basis of solid technology. For this reason, we independently manufacture mechanical sheet metal parts for cell guides and withdrawable units. Thanks to the high level of vertical manufacturing, "Made in Germany" becomes "Really made in Germany" at NATUS.

FRANK NATUS
Managing Partner

AS MANUFACTURER

The type-tested low-voltage **ENERGON** switchgear system in withdrawable and fixed mounted technology is used in different areas of application.

There are numerous cubicle and module variants which can be used to provide the optimal solution for the varying requirements of customers in infrastructure, industry and energy supply.

NATUS BENEFITS

- High flexibility for specific customer requirements
- Customer-orientated engineering and project management
- Individual solutions in switchgear technology
- Maximum safety for personnel
- High operational safety
- Modular design, can be easily scaled up
- Use of high-quality, manufacturer-independent, standard components
- Highest level of vertical manufacturing at the Trier site

TYPICAL AREAS OF APPLICATION

- Waste disposal
- Plant construction
- Automotive industry
- Mining industry and steel mills
- Chemicals and petrochemicals
- Glass industry
- Infrastructure
- Power stations
- Machine construction
- Oil and gas industry
- Pharmaceutical industry
- Data centres
- Steel and metal industry
- Transformer stations
- Water management
- Pulp and paper industry
- Cement industry
- and many more

NATUS ENERGON

THE UNIVERSAL LOW VOLTAGE SWITCHGEAR

NATUS switchgear systems offer you innovative and professional solutions for the highest quality and safety. In our more than 60 years company history, NATUS has been building and delivering withdrawable switchgears since 1978.

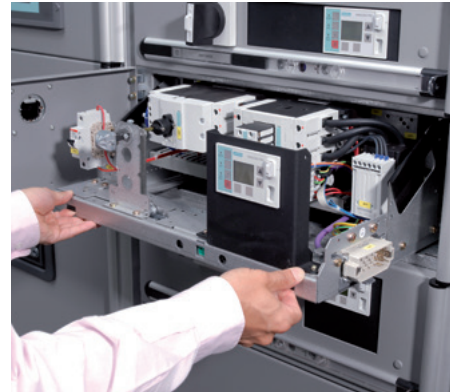
ENERGON is a cost-effective modular system that meets the highest requirements of plant operators with regard to safety, plant availability and personal security. It complies with current international standards, which is verified by complex tests done by accredited testing laboratories.

By using different cubicles types and related modules types NATUS ENERGON offers solutions for all requirements in the modern low voltage networks.

INVESTMENT IN THE FUTURE

During the planning and realisation of a project teamwork between customer and supplier is paramount. NATUS sales personnel guides you through the tendering phase and experienced engineering teams support you in the design phase.

That is how we ensure an optimal design and the shortest possible delivery time. Own assembly teams and NATUS After-Sales-Service complete NATUS service package and are at your disposal whenever you need it, long after the commissioning phase is over.



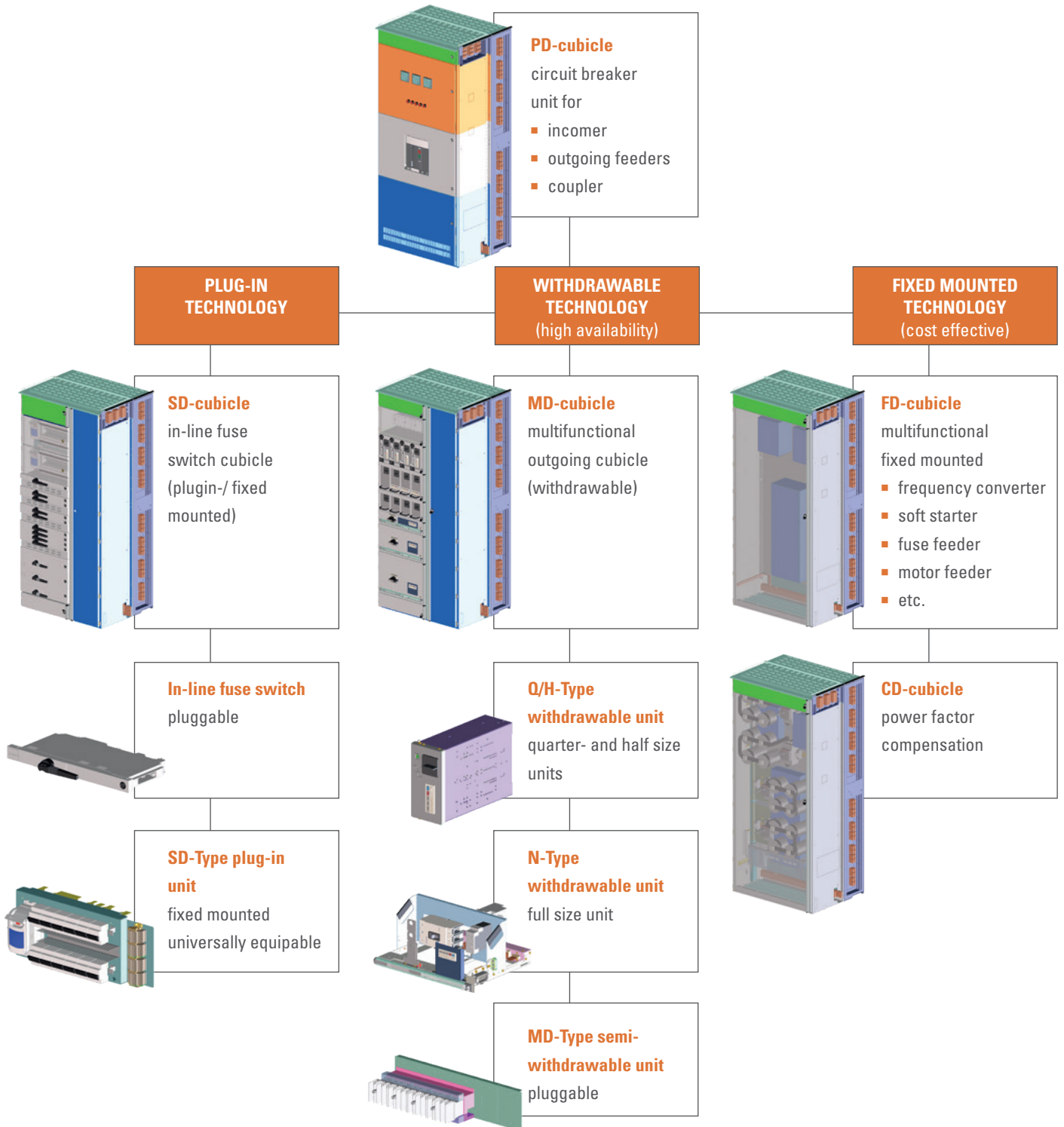
NATUS SWITCHGEAR SYSTEM – SAFE AND VERSATILE

- With interlocked operating / disconnected / test position
- Innovative due to CONTINUOUS LATCH, DTS and ARC SAFE

Demanding customers across the world have put their faith in NATUS switchgear systems, and thus also in the quality and safety of our solutions.

ENERGON MODULAR SYSTEM

FLEXIBLE AND INDIVIDUALLY COMBINABLE



ENERGON HIGHLIGHTS

SAFETY AND ENGINEERING ON THE HIGHEST LEVEL



CONTINUOUS LATCH

Door locking mechanism - arc proof
closing by one hand

The unique locking system sets standards for safety and user friendliness.

Especially for the door of the cable compartment, this can be closed with only one hand for the whole length in such a way, that arc safety can be reached. Additionally the operator can check with a single view whether it is closed properly or not, even from a distance.

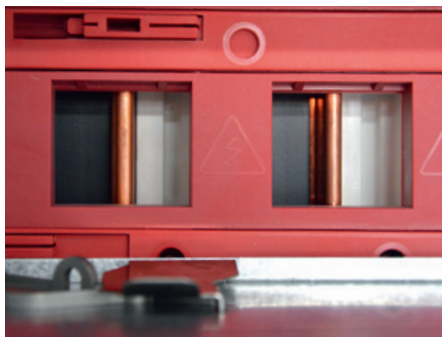


SD-CUBICLE

Arc-resistant fuse block unit

The completely encapsulated distribution busbar provides the highest plant availability and personal safety at the same time. Furthermore, the replacement and addition of functional units can take place while the switchgear is alive.

The encapsulation and separation between the phases ensures the maximum of arc fault safety, which is certified by accredited testing laboratories. The generously-dimensioned internal cross-sections of the horizontal distribution busbars enable high packing density for all combinations of fuse blocks and plug-in modules.

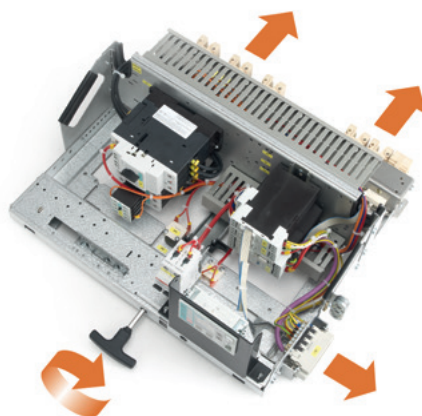


ARC SAFE

Patented vertical busbar channel

The vertical distribution busbar system combines best usability with highest personal safety. The shutter system is automatically operated and mechanically interlocked. Protection against energized parts is secured even when the drawer unit is open.

Additional locking capability of the „Automatic Shutter“ prevents the draw-out units from being accidentally inserted into compartment. The vertical distribution busbar enables modifications while the switchgear is live. In this way, substantial works can be carried out without shutting down any appliances or the entire plant. The busbar provides the highest level of arc safety through complete encapsulation and separation between the phases. The busbar has been certified by accredited testing laboratories as arc safe. Degree of protection of an empty compartment with the door opened is IP4X.



DTS

Double Transfer System

The contact mechanism DTS stands out thanks to the ease of use and provides together with the ARC SAFE the highest level of plant availability and safety. Here, the incoming and outgoing plugs are activated at the same time.

- Disconnected position
(Power contacts and control contacts are disconnected)
- Test position
(Control contacts are connected, power contacts are disconnected)
- Operating position
(Power contacts and control contacts are connected)

TECHNICAL DATA

- design-/type-tested, arc-fault-tested, earthquake testedIEC
- rated operation voltage (U_e)..... up to 690 V
- rated current..... up to 6.300 A
- rated peak withstand current (I_{pk}) up to 220 kA
- rated short-time withstand current (I_{cw})..... up to 100 kA
- incomer, coupler or outgoing feeder (ACB)..... up to 6.300 A
- incomer, coupler or outgoing feeder (MCCB)..... up to 1.600 A
- internal separation up to Form 4b (up to BS Typ 7)
- degree of protection..... IP30 up to IP54

DIMENSIONS

- height2200 (2300) mm
- width 200 / 400 / 500 / 600 / 800 / 900 / 1000 / 1200 mm
- depth
single front.....500 / 600 / 700 / 800 mm
double front..... 1000 / 1200 / 1300 / 1400 / 1600 mm



INDUSTRIAL SOLUTION SYSTEMS

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AS MANUFACTURER

SO PRECISE!

NATUS plans and develops the right, high-quality solution for any requirement – flexibly, quickly and individually.

AS SERVICE PARTNER

SO RELIABLE!

We provide a comprehensive service package to ensure that your NATUS products always deliver the maximum in performance.

AS AUTOMATION SPECIALIST

SO SMART!

As experts in automation technology, we provide the full spectrum of smart solutions.

AS PROJECT PARTNER

SO COMPLEX!

Many of our customers have complex projects. This means that NATUS is not just a manufacturer, but also a project partner.