

Power Distribution & Control

Medium voltage switchboard



Gas-insulated switchboard

||S interschalt Power Distribution & Control

High quality made in Germany at a competitive price

Integrated Power Management System

Many years of experience with a long list of references

High skilled service team

State-of-the-art, compact and modular design

Economical and reliable power distribution

From planning, construction up to commissioning of the complete low- and medium voltage power distribution including automation systems, INTERSCHALT provides the complete systems from only one source. The medium voltage switchboard is a state-of-the-art system made in Germany, specifically developed for the harsh marine environment. Due to the compact and modular design, the system fulfils highest availability together with the highest level of safety operation.

⇒ **The switchboard stands for economical and reliable power distribution.**



Fields of application in power supply

- Cable control and protection
- Overhead control of consumers
- Distribution sub stations
- Motor and transformer control and protection
- General control and protection
- Capacitor bank control and protection

Especially for

- Supply vessels
- Ocean liners
- Container vessels
- Tankers
- Ferries
- Cable laying ships
- Offshore facilities
- Wind power stations
- Megayachts

Gas-insulated switchboard

Standards

- IEC 62271-200
- VDE 0101
- VDE 0671 Part 200
- Internal arc classification IAC AFL 31,5 kA, 1s

Electrical data

| | |
|---|---------------|
| Rated voltage | 12 kV |
| Rated current of bus bar A | 630/1250/1600 |
| Rated current of incoming our outgoing feeder A | 630/1250/1600 |
| Rated short-time withstand current kA | 25/31.5 |
| Rated duration of short-circuit s | 3 |
| Rated peak withstand current kA | 63/80 |
| Rated lightning impulse withstand voltage 1.2/50 kV | 75 |
| Rated power-frequency withstand voltage kV | 28 |
| Rated frequency Hz | 50/60 |
| Degree of protection | IP 3XD |

Circuit-breaker

The circuit-breaker is a vacuum circuit-breaker with gear mechanism outside of the gas chamber.

Monitoring and control with power management system SYMAP™

SYMAP™ offers complete protection functions for generators, motors (synchronous and asynchronous), transformers, power lines and distribution. All protection functions can be activated and used simultaneously.

Panel versions

| View | Width mm | 450 | 600 |
|------|--|-----------|-----------|
| | Depth mm | 960 | 960 |
| | Height mm | 2200-2400 | 2200-2400 |
| | Weight kg | 400 | 450 |
| | Switch-disconnector panels | | |
| 1 | Cable feeder panel, switch-disconnector panel 630 A | ● | ● |
| 2 | Transformer feeder panel, switch-disconnector with HV fuses* | | ● |
| | Circuit breaker panels | | |
| 3 | Circuit breaker panel 630...800 A, single cable | ● | |
| 4 | Circuit breaker panel 1250 A...1600 A, double cables | | ● |
| 5 | Circuit breaker with voltage transformers | | ● |
| 6 | Bus sectionaliser with circuit breaker | | ● |
| 7 | Bus riser panel | | ● |

* on request

INTERSCHALT maritime systems AG
Osterbrooksweg 42, 22869 Schenefeld GERMANY

phone: +49 (0)40 83033-0 • fax: +49 (0)40 8302617
email: sales@interschalt.de • web: www.interschalt.de

**The INTERSCHALT medium voltage switchboard is powered by
ipt International Power & Technology GmbH, GERMANY**

Your advantages

- Maintenance-free components
- Certified operation authorization training for users
- Certified air and gas insulated switch boards according to international standards
- Design, production, installation, commissioning and service from one source
- World-wide service network availability by own service stations and agents
- Safe, cost-efficient and flexible