



Okken intelligent switchboard for nuclear plant installations



Superior safety and performance

Discover why Okken switchboards are the industry's new benchmark for intelligence, flexibility, and durability



Okken™ intelligent low voltage switchboard solutions are comprehensive, modular, and type tested. They are superbly adapted to the demanding power distribution and motor control requirements of the nuclear power industry.

Easy to optimise for cost, operating conditions, and performance requirements, Okken is a durable, flexible, and compact switchboard solution that features high-performance Schneider Electric™ devices to help keep your plant running as safely and reliably as possible.

Schneider
Electric™

1. Industry-specific certifications

- 5G versions specifically engineered for nuclear and 2.7G version for high-safety industrial applications
- High seismic vibration and mechanical withstand for installations in seismic zones
- Compliance with the most demanding local and international standards: IBC 2006/AC 156, IEC68-3-3, AS1170, EAK-2000, ENDESA-1986, GOST 17516.1-90, IEEE 693-1997, EDF CRT 91 C 112 00 (on Okken 5G)

2. Protection and safety

- Compliance with IEC 61439-1&2 system safety standards, type tested by ASEFA and LOVAG labs
- Active and passive internal arc fault protection compliant with IEC TR 61641-V3
- Maximum personnel safety thanks to isolated live part (up to IPxxD) and reliable front position indicators

3. Supply continuity

- Selectivity and type 2 coordination
- On-load operation protections and easily withdrawable drawers
- Thermal monitoring
- Rapid restarting and zero downtime tolerance

4. Dependability and availability

- 100% designed by Schneider Electric
- Modular, standardised and compatible architecture
- System consistency with MV equipment

5. Reliability in harsh environments

- Specific anti-corrosion surface treatments
- Several protection degrees (up to IP54) for dusty and damp environments

6. Smart panels – built-in intelligence

- iPMCC (intelligent Power and Motor Control Centre) by Okken — a smart, advanced solution for protection, fault prevention, automatic restarting, and improved productivity
- Best-in-class power distribution, motor control, and power factor correction, plus smart grid-ready technology

7. Internal arc protection

- Internal arc withstand up to 100 kA/0.5 s and arc flash detection
- Arc-free zone with encapsulated active parts on full switchboard
- Disconnectable and withdrawable Polyfast™ system partition terminals
- Superior withstand on all three positions of withdrawable drawers
- Short circuit current protection up to 150 kA

8. Environmental responsibility

- Green Premium™ product: no hazardous materials, reduced carbon footprint and energy consumption, and optimal recycling
- RoHS restriction, REACH declaration, Product Environmental Profile (PEP), End of Life Instructions (EoLI)

9. Schneider Electric services

- Global offer and supply chain
- Worldwide, localised support for troubleshooting, maintenance, and more
- Customised on-site or learning-centre-based training



Okken 70-M cubicle

Okken 70-2 cubicle

Flexible, withdrawable design for power and motor control

Compact Okken switchboards answer the needs of the most demanding applications by allowing you to install more equipment in the same space.

Disconnectable system for safe power distribution

The high-security Okken power distribution switchboard offers maximum reinforced electrical isolation, maximum flexibility, and highest quality standards thanks to the Polyfast system.



Find out how Okken switchboards can solve your toughest challenges

Learn more and download our complete brochure at www.schneider-electric.com/okken