

JesgearTM 40,5kV

Empowering the connections
that feed the future.

Discover the new 36kV-40.5kV standard
for the future of electrification.



JesGearTM is a latest-generation **metal-clad switchgear** designed to ensure operational safety and service continuity in critical environments. It features a unique design that covers both **36kV and 40.5kV** voltage ratings. Built with **air insulation** for indoor installation, JesGearTM complies with international standards for Internal Arc Classification (**IAC**) according to **IEC/EN 62271-200** up to **31.5kA**, positioning itself at the top of market performance.



Construction characteristics

The system integrates withdrawable vacuum circuit breakers (VCB) with insulated poles and a drawer-type configuration, providing a rating of up to 3150 A and a short-circuit current of 31.5 kA. It covers the main electrical ratings required by interconnection substations, large wind and solar power plants, primary substations, and strategic industrial infrastructures, in compliance with the latest grid requirements for 40.5 kV connections.

JesGear™ modular and robust design, combined with components selected from the world's leading technology partners, ensures **high performance, reliability, and ease of maintenance**, making it ideal to support the growth of renewable energy and the integration of distributed generation, particularly in the wind and solar sectors. Furthermore, it offers high configuration flexibility, adapting to specific plant requirements, ensuring:

- High dielectric strength, with air insulation (no SF6 gas)
- Short-circuit withstand capability
- Long-term reliability
- Ease of maintenance

Electrical characteristics

Description	Unit	Data
Rated voltage	kV	36 - 40,5
Rated insulation level	Rated power frequency withstand voltage (1 min)	kV 80
	Rated lightning impulse withstand voltage (peak value)	185
	Secondary Circuit PFW Voltage	V 2000
Rated current	A	1250 / 1600 / 2000 / 2500 / 3150*
Rated short time withstand current (3s)	kA	25 / 31.5
Rated peak withstand current (peak value)	kA	63 / 80
Internal Arc Class	kA/1s	AFLR up to 31,5
Mechanical Endurance (Cycle) ESW	Cycle	3000
Ingress Protection Degree	/	Enclosure IP4X / compartment IP2X
Overall dimensions (w*h*d)	mm	1200 * 2400 * 2500

* Forced air cooling is required with parameter.

Drawings

