

VEO



vector

Integrated by VEO

VEO Vector is an air insulated switchgear and control gear for indoor medium voltage systems. We produce all Vector units at VEO's factory in Vaasa, Finland, ensuring that our design and production units work side by side. The SF6 free switchgear has a rated voltage of 12 kV and 24 kV and is equipped with a vacuum circuit breaker.

Standardised quality

- IEC Certified: IEC 62271-200 (2011-10)
- Arc Proof: IAC AFLR classification
- Optimal Service Continuity: LSC2B-PM
- Degrees of protection: IP4x and IK10

Warranty

- 2 years (extendable)

Compact dimensions

- Height 2200 mm
- Width 800 mm
- Depth 1527 mm

Safety Functions

- All operations can be executed from the front and with the doors closed
- Logical mechanical interlocking
- Individually operated automatic shutter
- Padlock locking possibilities
- Capacitive voltage detection
- SF6 free

Rated Values

RATED VOLTAGE U_r	KV	12	24
Rated frequency f_r			
Rated power frequency withstand voltage U_d	kV	28	50
Rated lightning impulse withstand voltage U_p	kV	75	125
Rated short-time withstand current I_k	kA (3s)	...40	...25
Rated peak withstand current I_p	kA	100	63
Internal arc withstand current (1s)	kA	40	25
RATED CURRENTS I_r			
Main busbar	A	...4000	...2000
Circuit breaker	A	630	630
		1250	1250
		1600	1600
		2000	2000
		2500	
		3150	
		4000	



Supreme Safety

VEO's fully type tested Vector switchgear is extremely reliable to ensure personal safety. A lot of the safety is embedded into the design. For example, comprehensive combinations of electrical and mechanical interlockings secure safety operations and maintenance and prevent access to potentially dangerous parts. Each of the four compartments – main busbar, circuit breaker, cables, low voltage and relays – are isolated by metal, preventing the damage to spread in case of an arc fault.

Fully Tested Reliability

We have performed all type tests, routine tests and fullfill all the latest IEC standards. Complete routine tests and factory acceptance tests ensure quick, cost efficient site tests and commissioning, as well as a long lifetime. To guarantee that Vector will endure even the most critical conditions, we always use the toughest possible test parameters. Our tests show that Vector can withstand extremely high arc fault pressure, allowing the pressure to release in a controlled manner.

Quick Installations, Smooth Service

When designing Vector, our engineers spent a lot of time thinking about usability. The result is a supreme low-maintenance product of the highest service continuity class and with a superb user experience. For example, a large cabling compartment allows for easy installations and excellent serviceability. No need to cram in with cables or make extra floor holes anymore! It is even possible to step inside the switchgear to perform maintenance tasks in an ergonomic way.

Lean and Green

Vector is an optimally sized power package. By optimising and creating revolutionary solutions, our engineers have been able to minimise excess material and power dissipation. Let's just say we have squeezed in as many amperes per square meter as we could, without compromising our technical or environmental values. Thanks to our vacuum technology, Vector is also free from SF₆ gas.



VEO is an energy expert offering electrification and automation solutions for power generation, transmission, distribution and utilisation. Half of the company's revenue comes from renewable energy solutions. VEO's headquarter is located in Vaasa, Finland and the company also has subsidiaries in Sweden, Norway and the UK.

Contact us!

