



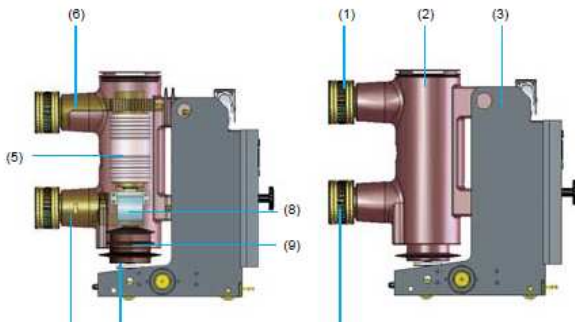
## 12/24kV VECTOR VCB.

The VECTOR is a cassette-type (with-draw-able) 12/24kV Vacuum Circuit Breaker designed for the VMS metal-clad switchgear, featuring compact dimensions of the circuit breaker and switchboard panels.

The VECTOR VCB has nominal current ratings of up to 2200A, with a maximum breaking capacity of 31.5 kA.

**VECTOR-S** - 630 / 1250 Amp units 12 / 24 kV  
It is a spring-mechanism driven VCB,

**VECTOR-M** - 2000/2200 Amp units 12 kV  
It is driven by a low-energy single-coil permanent magnet actuator system capable of more than 50,000 mechanical operations.  
The Vector-M is a low maintenance circuit breaker. The vacuum interrupters are maintenance-free with a minimum lifetime of 20 years. Maintenance of the operating mechanism is only required after 10 years or 25,000 operations. After 40,000 switching operations a general inspection by the manufacturer is recommended.



| Electrical Characteristics               | Unit | Vector 12-M32     | Vector 12-S/M 20-32 | Vector 24-S20-S32 |
|--|------|-------------------|---------------------|-------------------|
| Rated Voltage                            | kV   | 12                | 12                  | 24                |
| Rated current                            | A    | 2000/2500         | 630 / 1250          | 1250              |
| Rated short-circuit breaking current     | kV   | 31.5              | 20,25,31.5          | 20,25,31.5        |
| Rated peak withstand current             | kV   | 80                | 80                  | 80                |
| Rated Operating sequence                 | S    | O-0.3s-CO-180s-CO |                     |                   |
| Rated Lighting impulse withstand voltage | kV   | 75/85             | 95                  | 125 / 145         |
| Rated short-circuit breaking current     | kA   | 31.5              | 31.5                | 31.5              |



## Air-insulated switchgear panels, metal-enclosed, metal-clad, with a single bus-bar system.

The type VMS metal-clad switchgear is designed for installation in distribution, transformer and electric power substations

### Features

- The cable connection compartment is readily accessible through a separate door.
- Ease of operation on closed front section.
- High staff safety through closing of the bus-bar compartment cladding even in service position.
- Reliability through effective mechanical interrogator interlocking system.
- Modular construction allows high flexibility and adaptability.
- Easy access to the various switching devices for routine tests
- The with-draw-able chassis is moved by means of a manual crank into the service and disconnected positions.
- For removing the circuit breaker truck, it is slid from the chassis onto a transport trolley and locked onto the trolley for transportation.
- The transport trolley and thus the circuit breaker may be moved without any other mechanical aid.

OUTEC CONTROLS cc for LKE (Lauritz Knudsen Electric) medium voltage switchgear

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