



Value Added Services

TECHNICAL DATA

VD4-LMT medium voltage vacuum circuit breaker

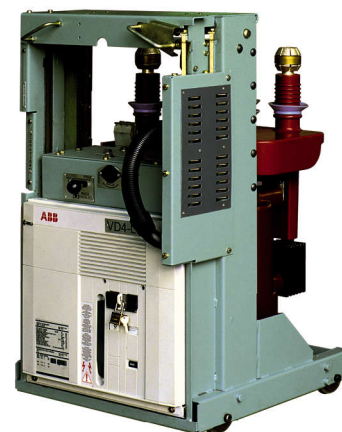
The VD4-LMT medium voltage circuit breaker consists of three separate vacuum circuit breaker poles, that are maintenance free lifelong sealed units complying with IEC 62271-100 and CEI 17-1.

The EL type mechanically-operated mechanism with stored energy performs the opening and closing operations independently from that of the operator's actions.

Mounted on a steel-wheeled carriage, the breaker can be horizontally withdrawn to the service, earth or fully withdrawn positions.

Raising and lowering of the circuit breaker is by means of a geared mechanism with a removable operating handle. Motorised raising and lowering of the circuit breaker is optional.

Secondary connections between the circuit breaker and the enclosure is by means of self-aligning isolating contacts, which are located on the inner right hand side of the circuit breaker compartment.



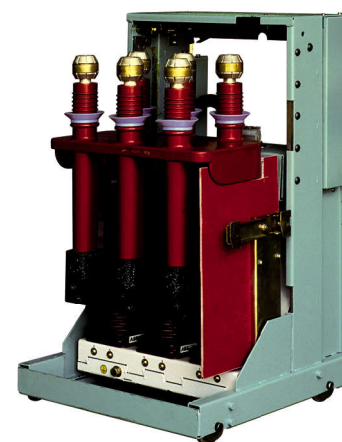
Vacuum Arc Breaking Technique

The contacts in ABB's vacuum interrupters have a special spiral geometry that creates a self-generated rotating magnetic field over the full area of the arc column. This tangentially forces the rapid rotation of the arc around the contact axis giving a more even distribution of thermal stresses, that results in negligible erosion, free of any re-striking and a longer life.

Interlocks

Safety is ensured by simple positive interlocks which will prevent:

- Racking up or down of a closed circuit breaker.
- Moving of a circuit breaker unless it is fully lowered.
- Locating of a circuit breaker in any other position than the one selected.
- Closing of a circuit breaker unless it is fully raised or fully lowered.
- Closing of a circuit breaker when fully raised unless the required secondary connections are made.



Feature Benefits

- Can be retrofitted to any Reyrolle type LMT, LMS, LSR, LMR, HD4-LMT switchgear panel.
- Sealed for life poles.
- Manual or motorised mechanism.
- 10,000 mechanical operations.
- Maintenance free circuit breaker poles.

Technical specifications

Standards	IEC 62271-100, CEI 17-1 (File 1375) & CENELEC HD 348 S6
Operating Sequence	Rapid re-closing cycle (0-0,3s-CO-3min-CO)
Rated Frequency fr (Hz)	50 / 60
Impulse Withstand Voltage Up (kV)	95

Type	Rated Current Ir (A)	Rated Voltage Ur (kV)	Withstand Voltage Ud (1 min)(kV)	Rated Breaking Capacity Isc (kA)	Making Capacity Ip (kA)	Rated Short Time Current Ik (kA) 3 sec
VD4-LMT 1250	1250	12	28	31.5	80	31.5
VD4-LMT 2500	2500	12	28	31.5	80	31.5

24hr Technical Support Line : 0861 488 488

ABB South Africa

Power Technology Products

Johannesburg Pinetown Cape Town Port Elizabeth
 Phone: +27 11 878 8000 +27 31 719 9000 +27 21 506 7700 +27 41 364 0921
 Fax: +27 11 828 0943 +27 31 719 9038 +27 21 506 7711 +27 41 364 0868
 email: ptmv@za.abb.com

