

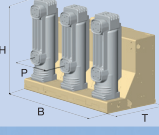
VM1

Vacuum circuit-breaker with
magnetic actuator mechanism

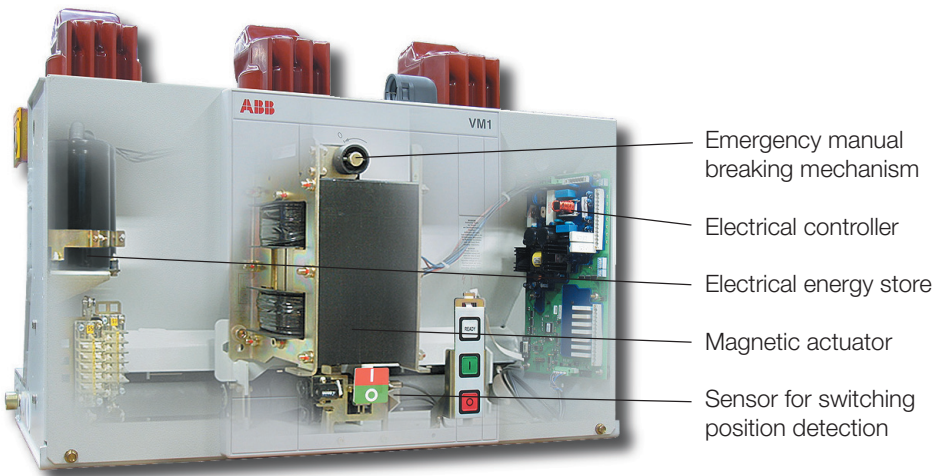


ABB

Technical Data

| Circuit-breaker | | VM1 12 | VM1 17 | VM1 24 | |
|---|---|-----------------------|----------------------|----------------------|-----------|
| Standards: VDE 0670, Part 1000 and IEC 60694 / VDE 0671, Part 100 and IEC 62271-100 | | ● | ● | ● | |
| Rated and insulation voltage | kV | 12 | 17.5 | 24 | |
| Rated power frequency withstand voltage 50 Hz (1 min.) | kV | 28 | 38 | 50 | |
| Rated lightning impulse withstand voltage | kV | 75 | 95 | 125 | |
| Rated frequency | Hz | 50 – 60 | 50 – 60 | 50 – 60 | |
| Rated current (40 °C) | A | ...4000 ¹⁾ | ...3150 | ...2500 | |
| Rated short-circuit breaking current | kA | ...50 | ...40 | ...25 | |
| Rated short-circuit making current | kA | ...125 | ...100 | ...63 | |
| Rated operating sequence for autoreclosing | | O-0.3s-CO-3min-CO | O-0.3s-CO-3min-CO | O-0.3s-CO-3min-CO | |
| Opening time / Closing time | ms | 35...50/45...60 | 35...50/45...60 | 35...50/45...60 | |
| Arcing time (at 50 Hz) | ms | ≤ 15 | ≤ 15 | ≤ 15 | |
| Total break time | ms | ≤ 60 | ≤ 60 | ≤ 60 | |
| Mechanical operating cycles: Actuator / vacuum interrupter | | ...100,000/...30,000 | ...100,000/...30,000 | ...100,000/...30,000 | |
| Electrical operating cycles: at rated current / at short-circuit current | | ...30,000/...100 | ...30,000/...100 | ...30,000/...100 | |
| Overall dimensions (fixed versions) |  | H (mm) | 461...668 | 461...668 | 631...662 |
| | | B (mm) | 570...750 | 570...750 | 570...750 |
| | | T (mm) | 424...459 | 424...459 | 424 |
| | | P (mm) | 150...275 | 150...275 | 210/275 |
| Operating temperature | °C | - 25...+ 40 | - 25...+ 40 | - 25...+ 40 | |

¹⁾ 4000 A with fan cooling



Note:
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