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Air-Insulated medium voltage switchgear module

- 12 kV, ...5000 A, ...50 kA
- 17.5 kV, ...5000 A, ...40 kA
- 24 kV, ...2500 A, ...25 kA
- 36/40.5 kV, ...3150 A, ...31.5 kA



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Rated Voltage	kV	12	17.5	24
Rated current to tee-offs, circuit-breaker	A	...5000 ¹⁾	...5000 ¹⁾	...2500 ²⁾
Rated short circuit-breaking current of circuit-breaker	kA	...50	...40	...25
Dimensions:				
Height	mm	1035	1035	1120
Depth	mm	722	722	870
Depth (including tulip)	mm	952 ³⁾	952 ³⁾	1193 ⁴⁾
Rated current for tee-off				
≤ 1250 A, ≤ 31.5 kA	mm	650/800	650/800	800/1000
≤ 1250 A, > 31.5 kA	mm	800	800	—
1600/2000 A	mm	800/1000	800/1000	1000
> 2000 A	mm	1000	1000	1000
Pole centres	mm	150/210/275	150/210/275	210/275

1) Up to 3150 A, 40°C ambient temperature, with natural ventilation.

Up to 5000 A with forced ventilation.

2) Up to 2500 A, 40°C ambient temperature, with natural ventilation.

3) > 1250 A = 1002 mm

4) > 1250 A = 1223 mm

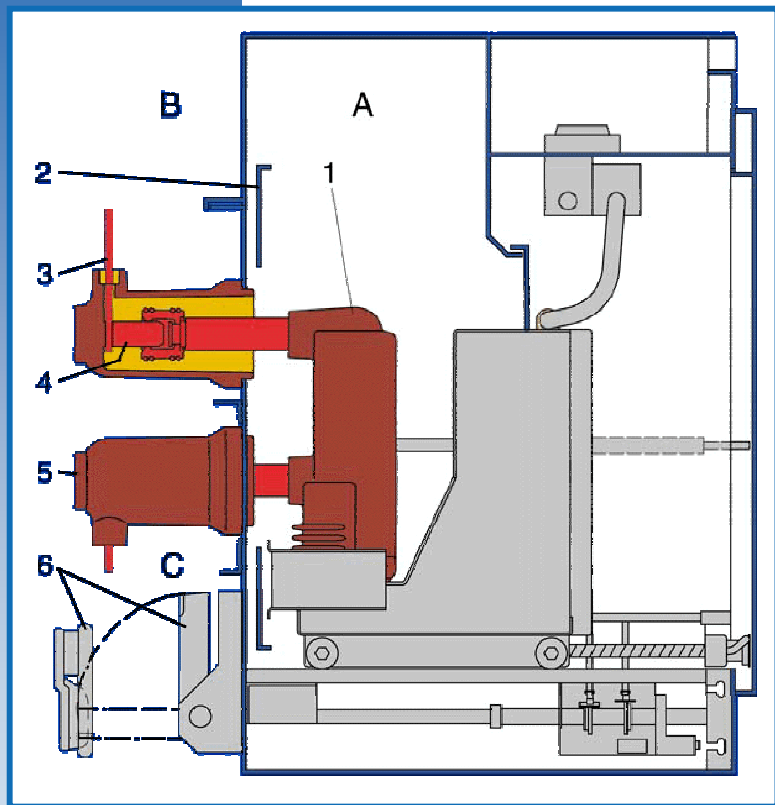
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- High resistance to internal arc faults
- Maintenance-free vacuum circuit-breakers VM1
- Compact panel components from series production
- Individually adapted customer components
- Use of conventional or modern secondary systems



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12 kV, 17.5 kV, 24 kV

- A Circuit-breaker compartment
- B Busbar compartment¹⁾
- C Cable connection compartment¹⁾

- 1 Vacuum circuit-breaker
- 2 Automatic shutter
- 3 Tee-off bar¹⁾
- 4 Contact pin
- 5 Contact tulip
- 6 Earthing switch

¹⁾ Customer components



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Rated Voltage	kV	36	40.5
Rated power frequency withstand voltage	kV	70	80
Rated lightning impulse withstand voltage	kV	170	200
Rated current	A	3150 ^{1) 2)}	3150 ^{1) 2)}
Rated peak short-circuit current	kA	...80	...80
Rated short-time current, 3s	kA	...31.5	...31.5
Rated short-circuit breaking current	kA	...31.5	...31.5
Rated short-circuit making current	kA	...80	...80
Dimensions:			
Height	mm	2200	2200
Depth	mm	1000	1000
Depth (including terminal blocks)	mm	1466	1466
Width	mm	1200	1200
Pole centres	mm	280	280
Weight	kg	870-950	870-950

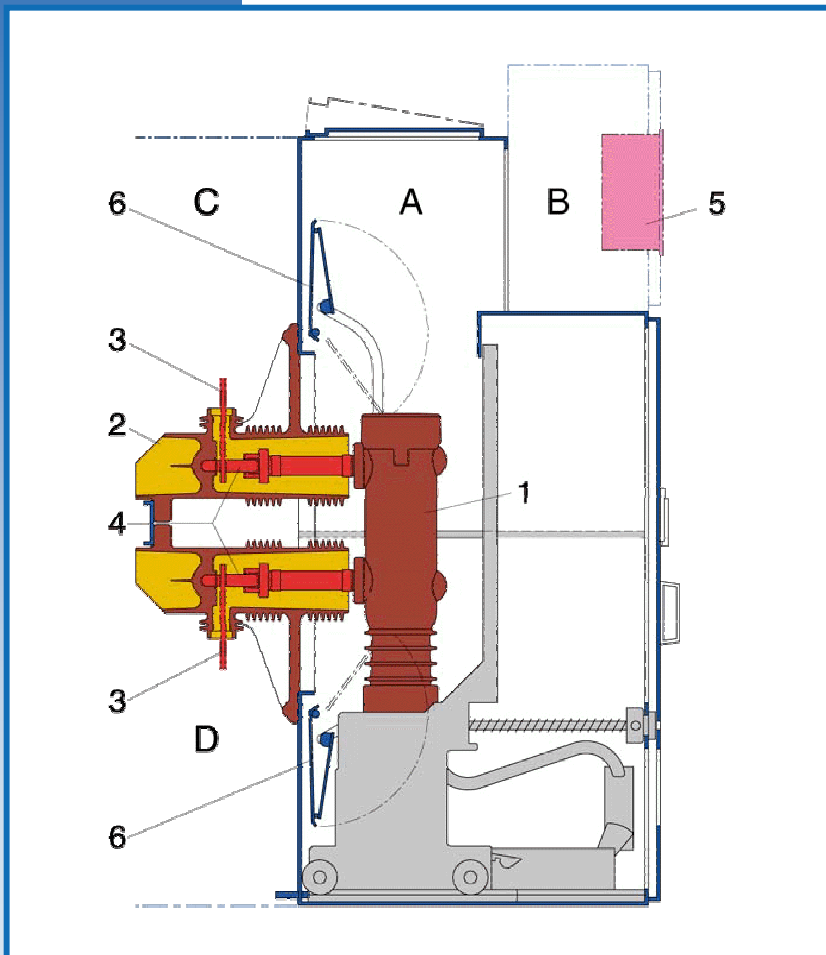
¹⁾ 3150 A / 40 °C with forced ventilation
2500 A / 55 °C with forced ventilation

²⁾ 2500 A / 40 °C with natural ventilation
2000 A / 55 °C with natural ventilation



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36/40.5 kV



- A Circuit-breaker compartment
- B Low voltage compartment¹⁾
- C Busbar compartment¹⁾
- D Cable connection compartment¹⁾

- 1 Vacuum circuit-breaker
- 2 Terminal blocks
- 3 Upper/lower busbar terminals¹⁾
- 4 Upper/lower contact pins
- 5 Protection unit¹⁾
- 6 Shutter

¹⁾ Customer components



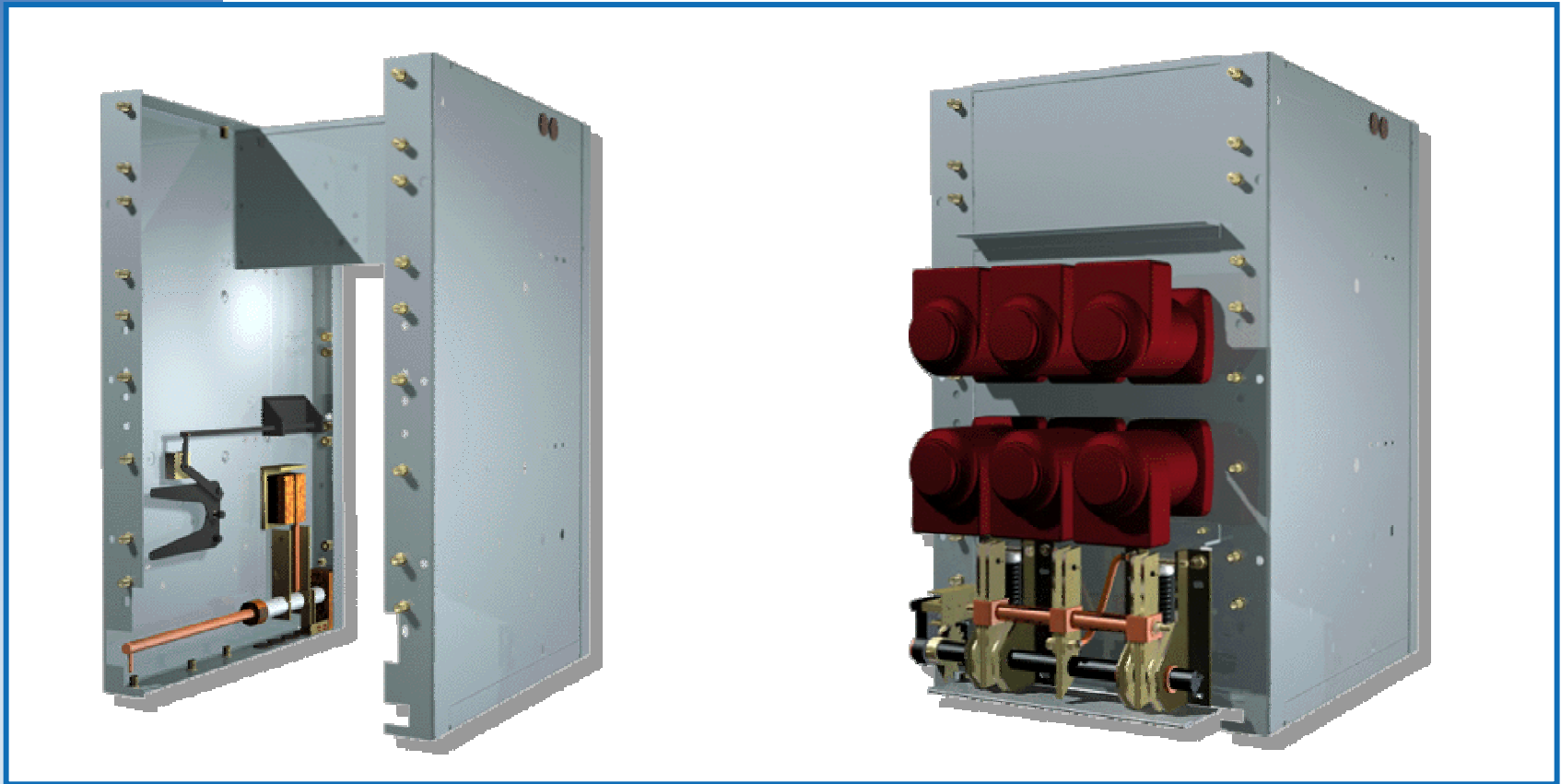
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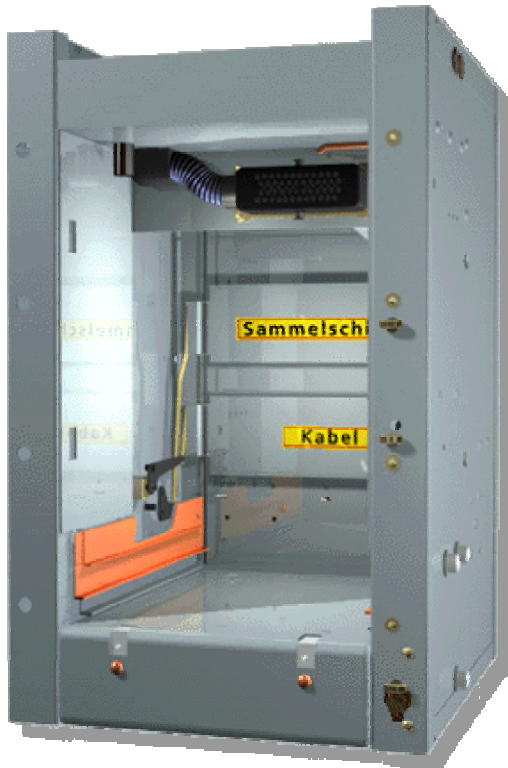
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Assembly sequence



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ABB