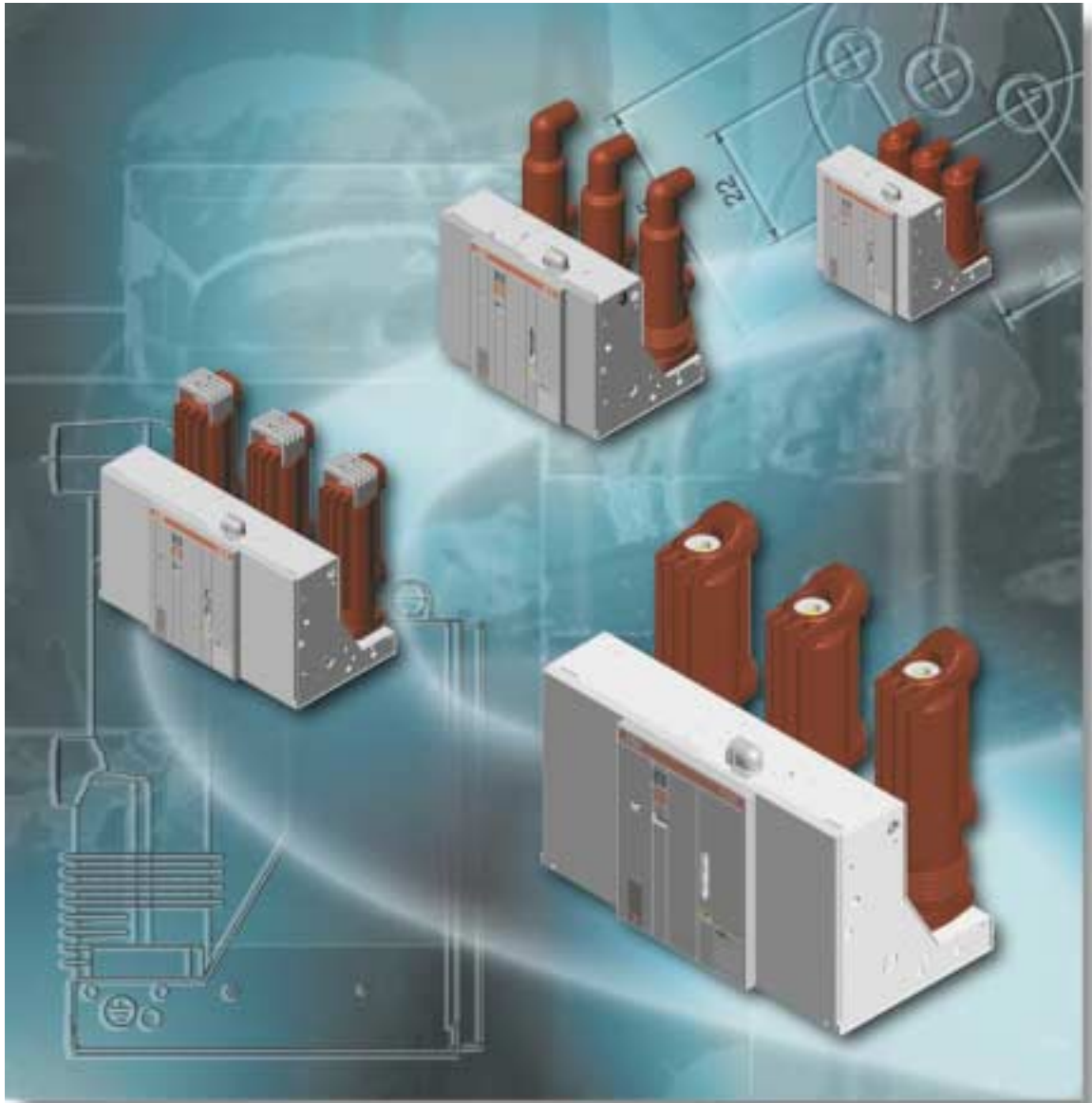


# VD4

Vacuum circuit-breaker  
with poles in embedded design

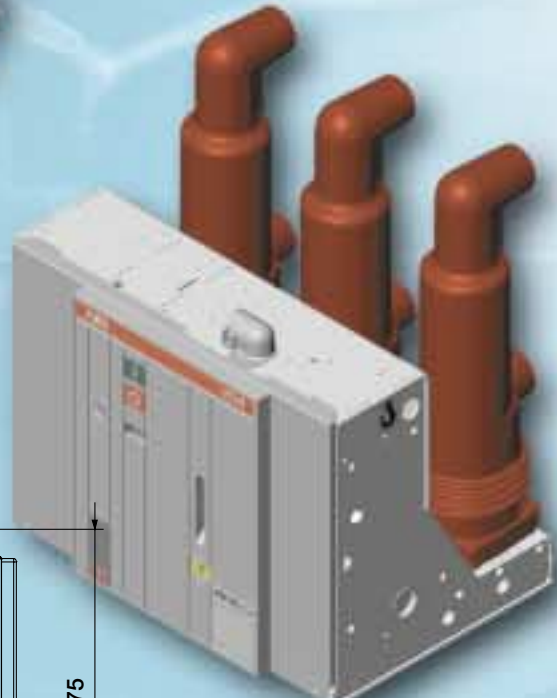
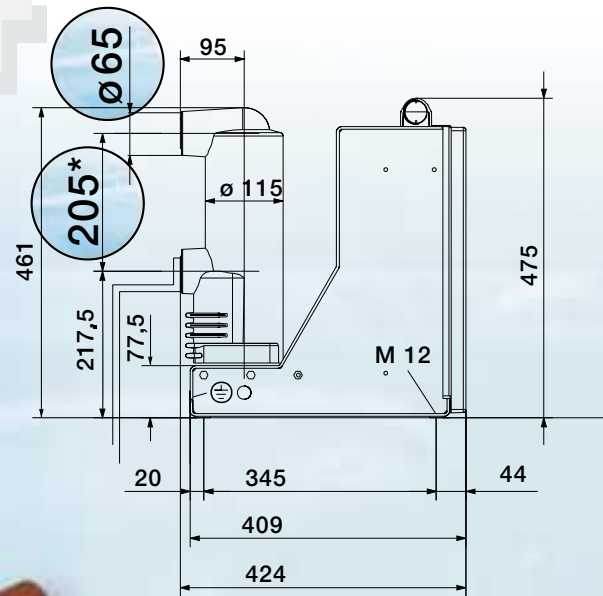


Brain Power.™ **ABB**

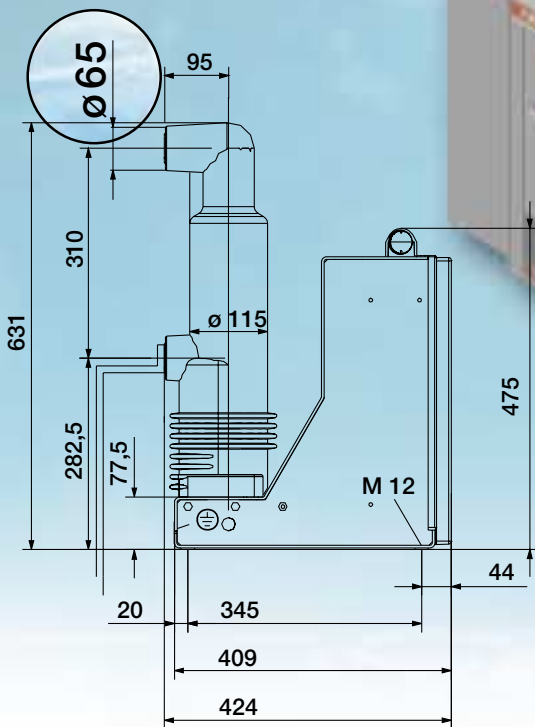
# VD4. Vacuum circuit-breaker.

The thousand-fold tried and tested VD4 is now being manufactured and supplied with embedded poles. The advantages at a glance.

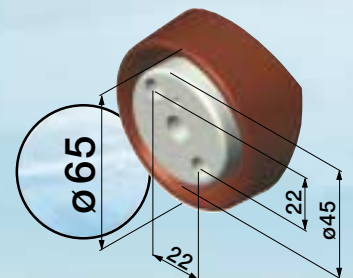
- Higher reliability and availability and longer life with fewer fastening parts.
- Protection of the vacuum interrupters from impact, dust and condensation.
- High dielectric protection of the vacuum interrupters without additional modifications.



\* Can be adjusted to the old dimension of 275 mm with adapters.

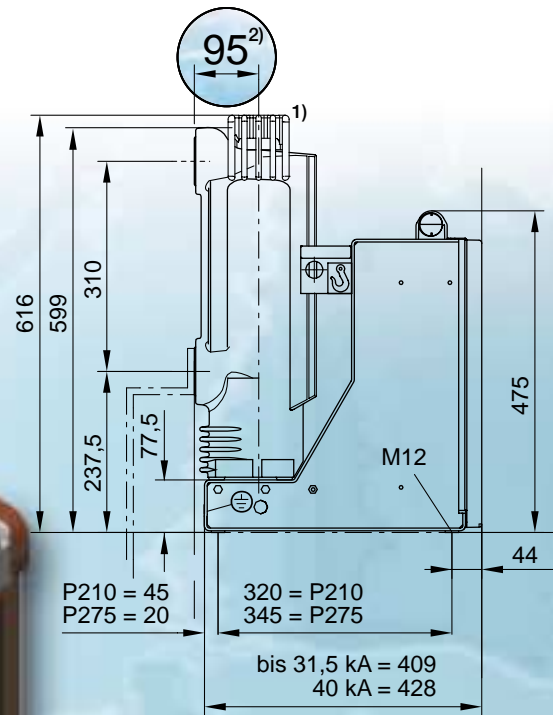
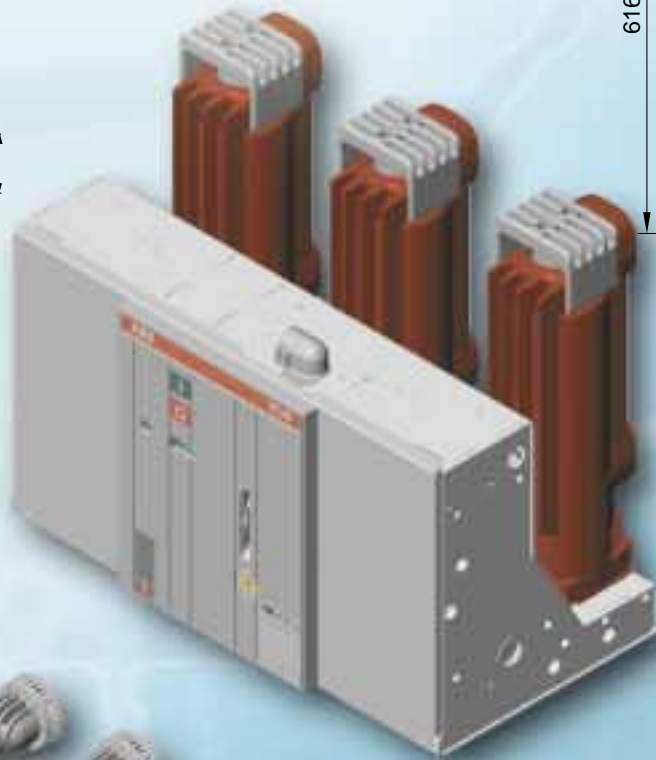
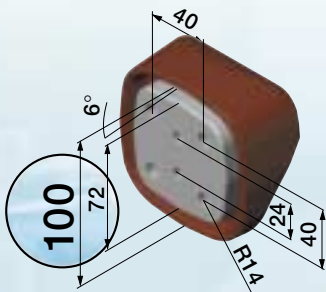


12 kV, ...1250 A, ...31.5 kA  
 17.5 kV, ...1250 A, ...31.5 kA  
 24 kV, ...1250 A, ...25 kA



In the circuit-breaker of type VD4, the complete pole and the maintenance-free vacuum interrupter form a positive unit.

This is achieved by a specially developed casting technique in which the vacuum interrupter is directly embedded in epoxy resin to form a complete pole. External influences on the switching element are therefore extensively precluded.



- <sup>1)</sup> Breakers for 2500 A are delivered with heat dissipation units.
- <sup>2)</sup> Can be adjusted to the old dimension of 130 mm with adapter.

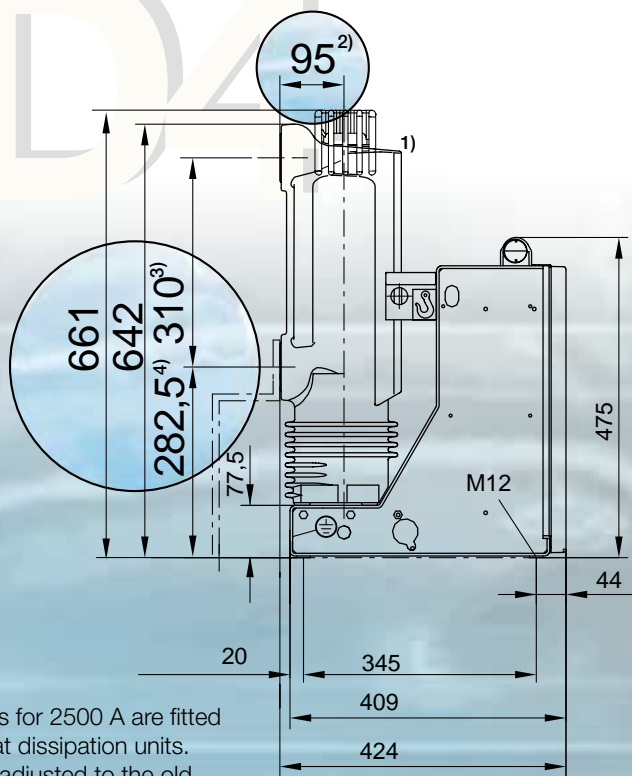
12 kV, 1600-2500 A, ...40 kA  
 17.5 kV, 1600-2500 A, ...31.5 kA

The marked dimensions (↗) in the drawings deviate from those of the previous circuit-breaker of type VD4 with assembled poles.  
 Always make allowance for these new dimensions in your planning.

# VD4. The economical solution in power distribution.

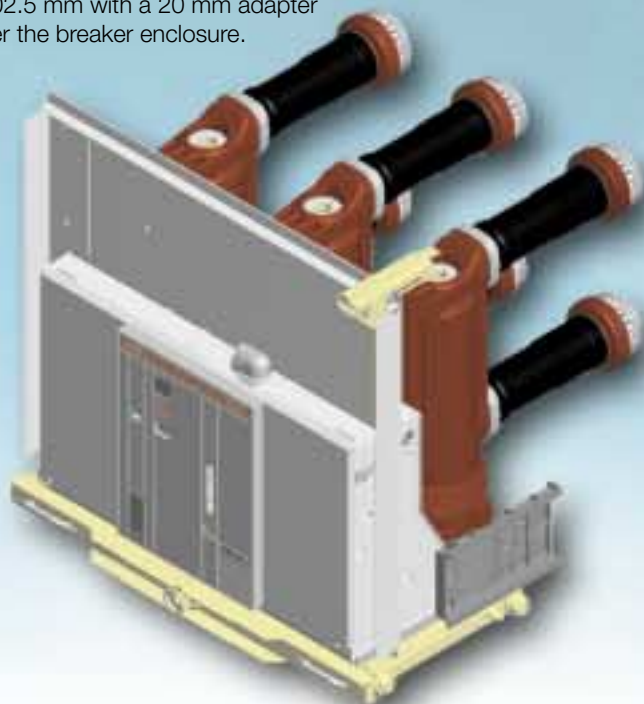
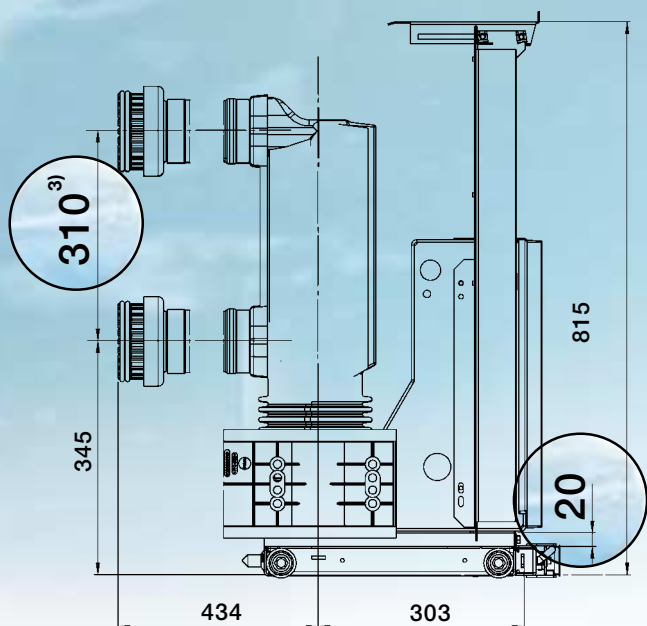
With its systematically developed technology, the vacuum circuit-breaker of type VD4 occupies a leading position in networks for electrical power distribution. The rated nominal current and rated short-circuit breaking current are dimensioned to suit the users' requirements.

Designed for the requirements, the VD4 circuit-breaker with embedded technique fulfils the high demands of users in all respects.



- 1) Breakers for 2500 A are fitted with heat dissipation units.
- 2) Can be adjusted to the old dimension of 130 mm with adapter.
- 3) Dimension 380 mm no longer applicable.
- 2) Can be adjusted to the old dimension of 302.5 mm with a 20 mm adapter under the breaker enclosure.

24 kV, 1600-2500 A, ...25 kA



# From assembled to embedded poles.



# VD4

## Device

Vacuum circuit-breaker embedded	Mounting dimensions type of the breaker	Terminal dimensions	Design features regarding insulation
12 kV, ...1250 A, ...31.5 kA	No changes	No changes <sup>1)</sup>	See dimensional drawing for changes
17.5 kV, ...1250 A, ...31.5 kA			
24 kV, ...1250 A, ...25 kA			
12 kV, ...1250 A, 40 kA	No changes	See dimensional drawing for changes	See dimensional drawing for changes
12 kV, 1600-2500 A, ...40 kA			
17.5 kV, 1600-2500 A, ...31.5 kA			
24 kV, 1600-2500 A, ...25 kA	No changes	See dimensional drawing for changes	See dimensional drawing for changes

## Withdrawable part

Vacuum circuit-breaker embedded	Mounting dimensions type of the withdrawable part	Terminal dimensions	Design features regarding insulation
12 kV, ...1250 A, ...31.5 kA	No changes	No changes	No changes
17.5 kV, ...1250 A, ...31.5 kA			
24 kV, ...1250 A, ...25 kA			
12 kV, ...1250 A, 40 kA	No changes	No changes	No changes
12 kV, 1600-2500 A, ...40 kA			
17.5 kV, 1600-2500 A, ...31.5 kA			
24 kV, 1600-2500 A, ...25 kA	No changes	See dimensional drawing for changes	No changes

Vacuum circuit-breaker with the following rated data remain in assembled pole technique.

12 kV,	1250-2500 A,	50 kA
12 kV,	3150/4000 A <sup>2)</sup> ,	...50 kA
12 kV,	1250-2000 A,	63 kA
17.5 kV,	1600-3150/4000 A <sup>2)</sup> ,	40 kA
36 kV,	1250-2500/3150 A <sup>2)</sup> ,	...40 kA

<sup>1)</sup> Can be adjusted to the dimension of 275 mm with adapters.

<sup>2)</sup> Breaker with fan cooling



**ABB Calor Emag Mittelspannung GmbH**

Oberhausener Strasse 33      Petzower Strasse 8  
D-40472 Ratingen              D-14542 Glindow

Phone: +49(0)21 02/12-12 30, Fax: +49(0)21 02/12-19 16

E-mail: [calor.info@de.abb.com](mailto:calor.info@de.abb.com)

Internet: <http://www.abb.de/calor>