



ABB AG - EPDS

Embedded Poles



Embedded Poles

High dielectric strength without any further external measures

Optimum protection of the vacuum interrupter from moisture, dust and external damage

Suitable for different climatic conditions and altitudes of site

High reliability and long life



Embedded Poles

Easy adaption to circuit-breaker

Maintenance-free

High quality standard

Manufacturing Execution System (MES) enabled

Efficient increase of the dielectric strength without usage of green-house gas



Embedded Poles

For indoor application (standard)

PT1



VGE4 / VG4 / VG4-S / VGE4-S

12 / 17,5 kV

...1250 A

...31,5 kA

...95 / 42 kV¹⁾

50.000²⁾

P3



VG4 / VG4-S / VG6

12 / 17,5 kV

...1600 A

...40 kA

...95 / 42 kV¹⁾

30.000²⁾

P4



VG5 / VG4 / VG4-S

24 kV

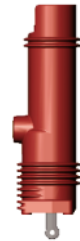
...1250 A

...25 kA

...125 / 50 kV¹⁾

30.000²⁾

P4-S



VG5 / VG4

...24 kV

...1250 A

...20 kA

...125 / 50 kV¹⁾

30.000²⁾

Embedded Poles

For indoor application (high current)

PT2



VGE4-S / VG6

12 / 17,5 kV

...3150 A¹⁾

...40 kA

...95 / 42 kV²⁾

50.000³⁾

P2



VG4-S / VG6

12 / 17,5 kV

3150 A¹⁾

...40 kA

...95 / 42 kV²⁾

30.000³⁾

P5



VG4-S / VG6

24 kV

...2500 A¹⁾

...31,5 kA

...125 / 50 kV²⁾

30.000³⁾

P6



VG6 / VG8 / VG8-S

36 / 40,5 kV

...2500 A

...40 kA

...200 / 95 kV²⁾

30.000³⁾

P7



VG7

12 / 17,5 kV

...3150 A¹⁾

...50 kA

...95 / 42 kV²⁾

30.000³⁾

Embedded Poles

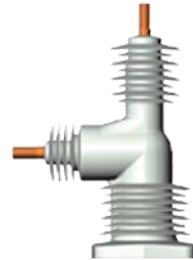
For outdoor application

OPO



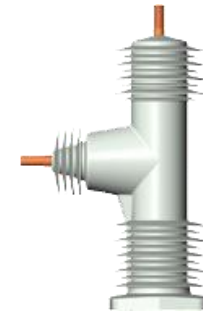
12 kV
...630 A
...20 kA

OP1



15 / 27 kV
...1000 A¹⁾
...16 / 12 kA¹⁾

OP2

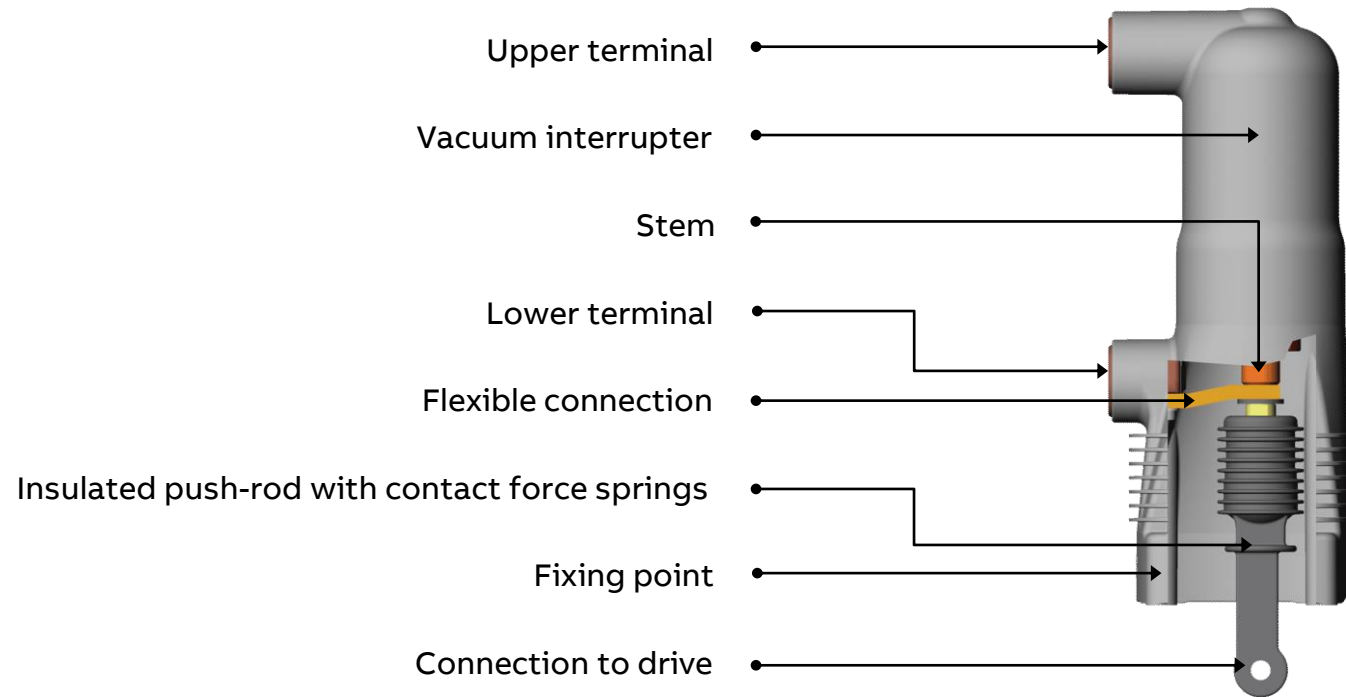


38 kV
...1200 A¹⁾
...16 kA¹⁾

Embedded Poles

Innovative Technology

Schematic diagram



Embedded Poles

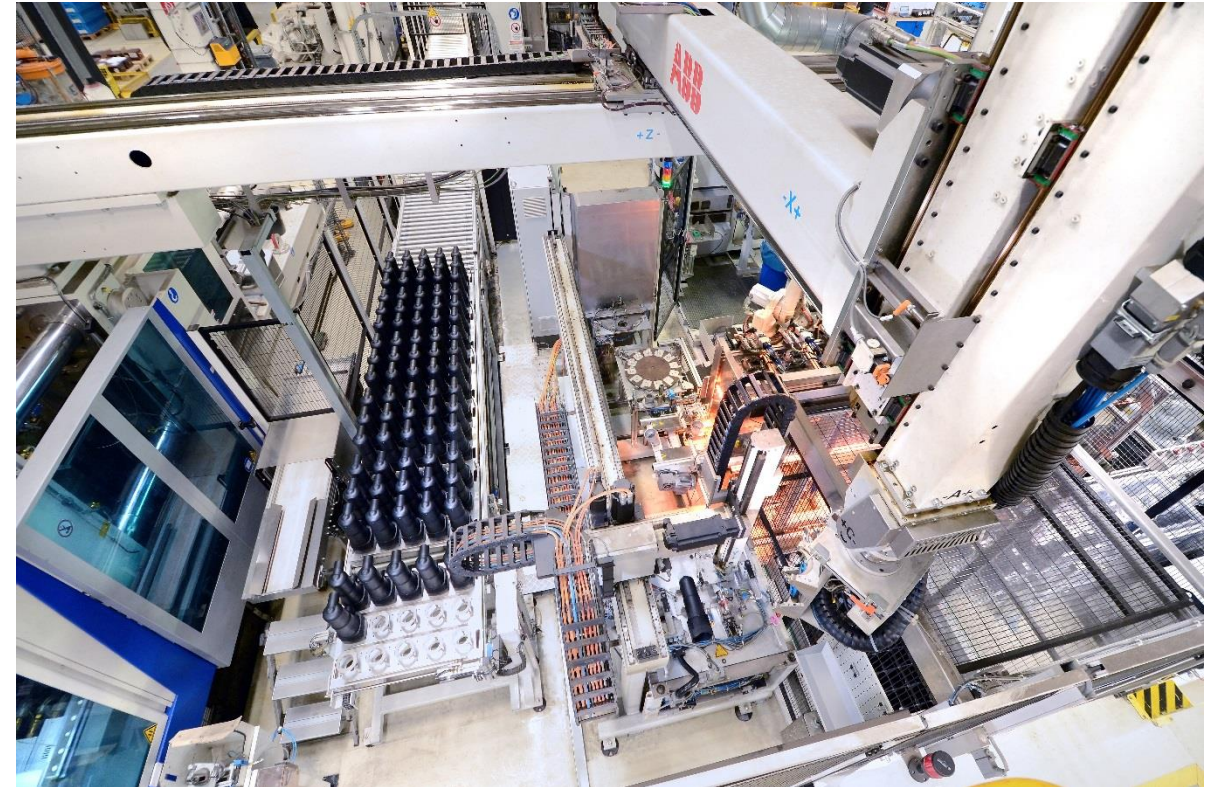
State-of-the-art manufacturing process

Latest manufacturing methods guarantee process stability and quality at reduced environmental stress

Consistent development of products and processes

Control and monitoring of all essential process parameters

Efficient increase of the dielectric strength without usage of greenhouse gas



Embedded Poles

Quality control

Verification of dimensional conformity

Measurement of voltage drop across the pole

Mechanical function test

Checking of contact spring force

Examination by visual assessment



Embedded Poles

Applications as core components

The applications as core components include

- Power plants
- Transformer substations
- Chemical industry
- Steel industry
- Automobile industry
- Airport power supply
- Shipbuilding
- Power supply to buildings



AABB