The latest technologies and manufacturing processes as well as the use of the purest materials ensure high quality standards in series production.

Apart from their outstanding contribution to climate protection, the ABB's Embedded Poles PT provide many other advantages:

- Environmental friendly in production, operation and disposal
- Requirements of IEC standards exceeded
- Improved low-temperature characteristics and enhanced mechanical strength
- High dielectric strength – no further external measures required
- Optimum protection of the vacuum interrupters from moisture, dust and external damage
- Absolute reliability and long life
- Easy assembly on the circuit breaker
- Highest quality standard, maintenance-free
- Based on vacuum technology, the prevailing switching method in medium voltage worldwide
- Efficient increase of dielectric strength without use of greenhouse gas
Harmony between mankind and the environment is one of the most ambitious goals there are. Everyone has to play their part in upholding the principle of sustainability, preserving the foundations of existence for future generations and combining economic efficiency with social responsibility and resource-conserving growth.

Innovative technologies such as the Embedded Poles from ABB make an indispensable contribution. On the one hand, only these new technologies themselves provide information on the condition of the ecosystem. On the other hand, they help to conserve resources, reduce emissions, continue cycles and set the course for climate protection.

National and international lawmakers have defined standards for more energy efficiency to reduce the burden on the environment and counter climate change.

A detailed life cycle assessment was performed in the early development phase of the PT-Poles, devoting attention to both direct and indirect effects of the pole units on the environment. We are therefore proud to say that the PT Embedded Poles reduce emissions of CO₂ by more than 50% in comparison with similar poles based on epoxy resin. This is equivalent to savings of over 3,000 t CO₂ each year.

With over 30 years of experience in vacuum switching technology, ABB supplies vacuum interrupters and pole units for a broad range of applications.

As core components, ABB’s Embedded Poles of type PT are used in all areas of power generation, distribution and consumption in industry and buildings. They contribute to the efficient use of energy, and thus not only protect the environment and climate, but also reduce costs for our partners.

The rated data of the poles are matched to the requirements of the application and fulfill the users’ high demands in all respects.

#### Embedded Pole type PT

**Electrical Characteristics**

- Rated voltage: 12 kV (25 kV available on request)
- Rated frequency: 50 / 60 Hz
- Rated power-frequency withstand voltage (ms): 42 kV
- Rated lightning impulse withstand voltage: 95 kV
- Rated normal current (ms): 1250 A
- Rated short-circuit breaking current (ms): 25 kA

**Mechanical Characteristics**

- Pole weight: 5.6 kg
- Contact force: 2400 N
- Mechanical life: 50,000 CO-ops.
- Service life: 30 yrs.
- CO-ops. at rated short-circuit breaking current: 50
- Operating temperature: -30 … +40 °C

For further details see data and dimension sheet.

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