



Compact product knowledge: Metal clad combined transformers

For several decades, RITZ has been offering combined transformers in a touch-safe, metal-encapsulated design. These are available both with an outer cone, the KGBEA series, and with an inner cone, the KGBEI series. The touch-safe transformers offer our customers several advantages.

The transformers offer cost savings when building a switchgear system. For example, a measuring field with a cable entry field is not required when using the transformers. The transformers can also be used in the cable cellar to save space, as can be seen in the illustration below. This results in further savings potential, as no additional space is required in the building and construction costs are therefore reduced.



Illustration 1 Combined transformers in the cable cellar



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The metal-encapsulated combined transformers also offer the option of several cores for the current transformer section or several windings for the voltage transformer section. They are approved for billing purposes. Frequency-optimized designs up to 9 kHz for power quality measurement are available on request.

The combined transformers are designed for a service life of 40 years. They are insensitive to dirt and therefore maintenance-free. This is a particular advantage over air-insulated measuring fields, which have to be cleaned every 4 years in accordance with regulations. This also results in cost savings during operation through the use of the transformers. In addition, the transformers can be mounted in any position.

For the inner cone transformers (KGBEI types), plug sizes 1 and 2 are available. For the outer cone transformers (KGBEA types), plug sizes A, B, and C are available.



Illustration 2 Transformers in use