Minera

Oil-Immersed Distribution Transformers

Make the most of your energy℠

Oil and Gas

Minera

Oil-Immersed Distribution Transformers

As standards, specifications and designs change from time to time, please ask for confirmation of the information given in this publication.

Design: Schneider Electric Industries SAS
Photos: © Beboy - Fotolia.com
Minera Oil-Immersed Transformers Up to 5 MVA - 36 kV

Quality based upon years of experience
With more than 80 years of experience and over two million oil-immersed transformers installed worldwide, our company is well aware of investing in a proven technology constantly enhanced in our competence center.

Our company follows a policy of continuous improvement taking into account the latest worldwide developments. This ensures that our transformers are state-of-the-art and fully compliant with the modern world’s highest requirements: fast delivery time, improved quality and recycling capacities as well as, on request, very low noise and losses values.

Magnetic core
The magnetic core of the transformers is manufactured from a high grade, cold rolled grain oriented silicon steel. The stacking of the laminations is either butt lap or step lap type. The magnetic core is generally of a multi-layer, circular section weave type, where the feeding and cutting of the magnetic core is done by automatic machines. In order to reduce the sound level of the transformer to a minimum, the magnetic core and its framework are carefully chosen to minimize the abrasive noise and, in particular, the magnetic restriction effects which constitute the main source of noise in sound distribution transformers. In addition, in order to reduce the no load losses and / or the no load current of the transformer, the quality of the magnetic steel and the induction lines are carefully chosen in order that the magnetic core are carefully chosen to meet the required specifications.

Surface protection
In order to provide a high-quality surface protection, the coating (painting) type is chosen in accordance with the environmental conditions, concerning the degree of pollution, humidity, etc. Zinc, Spray / Hot dip galvanized, RAL5501 cover and marasolvay may also be provided.

Depending on applications and environmental influences, you will require a different type of oil-immersed transformer. We can deliver every type of Minera:
- Hermetically sealed or breathing type
- With outdoor, indoor, free standing, panel mounted, ground, pad or pole mounted
- With or without conservator, or hermetically sealed type
- With cooling fins designed under gas or liquid over-pressure.

The corrugated tank (cooling fins) is manufactured from corrugated plates, the cooling fins are designed to dissipate the generated heat, keeping the temperature of the conductor is either round, rectangular type. To obtain a controlled temperature gradient, cooling ducts are added in the coil. High voltage coils are in long layers or of disc type. To obtain a controlled temperature gradient, cooling ducts are added in the coil. High voltage coils are in long layers or of disc type. To obtain a controlled temperature gradient, cooling ducts are added in the coil. The high voltage winding material is either copper or aluminum, the choice of winding material is made to reduce the sound level of the transformer to a minimum, the magnetic core and its framework are carefully chosen to minimize the abrasive noise and, in particular, the magnetic restriction effects which constitute the main source of noise in sound distribution transformers. In addition, in order to reduce the no load losses and / or the no load current of the transformer, the quality of the magnetic steel and the induction lines are carefully chosen in order that the magnetic core are carefully chosen to meet the required specifications.

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Customer benefits
- Extreme versatility of the range
- High quality and reliability
- Economical optimization
- Capitalization of the losses
- Easy recycling
- Low maintenance
- Proven and permanently optimized technology
- Reduced dimensions
- Solid construction
- Long life-cycle with low maintenance
- High quality level for more reliability

ISO 9001, ISO 14001 and 18001 Transformers units certifications

High quality level for more reliability
Depending on the methods and the standards applied in your project, a transformer shall be best adapted to the structure of your distribution network while offering the most cost-effective solution. With a large industrial worldwide platform, we offer versatility and personalization of our oil-immersed distribution transformer to meet your needs. Whatever your application, the transformer type you require, you will find your solution in Minera.

The right tune for your network
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