

ESP – Multitap transformer



Powering reliable solutions for you

Experience in the industry

Prolec GE has a long experience in advanced technology transformer for the Oil & Gas Industry, from drilling and production to refining and petrochemical.

Product Scope

- Multitap transformer for ESP applications
- 3 phase
- Ratings 100 up to 540 kVA
- Ambient temperature 30°C ave/40°C max
- Temperature rise 65°C
- Optional ambient temperature 40°C ave/50°C max
- Optional temperature rise 55°C
- Cooling ONAN
- Frequency 60 Hz
- Optional frequency 50 Hz
- Insulating fluid Non-PCB Mineral Oil
- Designed to operate at 3300 FASL
- Harmonic "K" Factor up to 4
- HV 1100 to 4800 V, 60 kV BIL, Delta or Wye connected
- Externally operated de-energized tap changer with 25 Taps
- LV 480 V, 30 kV BIL



Turn insulation

Thermally upgraded kraft paper is used for layer and high to low insulation.

The insulation system chemical stabilizers terminally upgrade cellulose insulating materials to permit 12% higher load capacity.

Coil construction

The mechanical strength which is provided by diamond pattern, epoxy coated paper insulation accomplished with unique compression bounding process is one the best solutions to support short circuit forces.

The bound retains the winding from shifting during operation or under short circuit stresses.

Core & Coil construction

Substation transformer core and coil assemblies are braced with heavy steel ends to prevent the rectangular coil from distorting under fault conditions. Plates are clamped in place using presses, and welded or bolted to form a solid core and coil assembly. Core and coil assemblies exceed ANSI/IEEE requirements for short-circuit performance. Due to the rigidity of the design, impedance after short-circuit is comparable to that of a circular wound assemblies.



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Solution for...

Oil & Gas

- Artificial Lift application
- Onshore operation

Corrosive environment

Coatings specially designed to operate under several conditions for the Oil & Gas Industry, including high humidity environment, ultra violet radiation, chemical pollution & saline fog.

Experience



Standards and certifications available

