



OTN

Step-up, step-down, network energy integration liquid immersed power transformers

ELECTRICAL DATA & DESIGN FEATURES

Rating Power:	Up to 180 MVA
N° of Phases:	Single, three phase and Scott design
Windings & type of design:	<ul style="list-style-type: none"> - Standard core type with 3 or 5 limbs - Autotransformer - Mobile substation
Cooling:	(K)ONAN - (K)ONAF - (K)OFAF - (K)ODAF - (K)OFWF - (K)ODWF - (K)OFAN - (K)ODAN
Frequency:	50, 60, 25, 16 2/3 Hz (fix or variable)
Standards:	Any Standard applicable
Primary Winding:	Single or multi-primary voltage design
Max Working Voltage (U_m):	Up to 245 kV
Voltage Regulation:	<ul style="list-style-type: none"> - No Load Tap Changer (NLTC) - On Load Tap Changer (OLTC)
Secondary Winding:	Single or multi-secondary windings design
Insulating Level:	Up to L.I. 1050 kV
Winding Conductors:	Cu or Al (according to the transformer size)
Bushing Protection Degree:	Cable boxes, GIS, Oil to Oil, RIP, Composite or any special bushing execution or coupling, Plug-in type
Ambient Temperature (MIN/MAX):	From (minus)-60°C to MAX required design
Altitude of installation:	Up to 4500 m
Installation:	<ul style="list-style-type: none"> - Arctic areas - Desert conditions - Off-Shore/Marine - Seismic areas - Heavy duty (Steel & metal process) - Special environment (Painting process) - Low noise areas - Mobile substations
Painting Cycles:	Available Know-how in a wide range of environment conditions
Tank Execution:	<ul style="list-style-type: none"> - Cover bolted or welded - Standard tank or Bell type - Material and design suitable for any site requirement
Available Insulating Liquid:	Mineral oil, Silicon fluid, Synthetic or Vegetal Ester fluid (Bio)

ACCESSORIES ON REQUEST

A wide of state of the art accessories available for:

- Life safety equipments
- Fire detection
- Power quality integration
- Auxiliary boxes
- Life cycle monitoring unit device
- Coupling accessories for plant request
- WI-FI system monitoring
- Any other special needs if applicable

SPECIAL TECHNICAL REMARKS

- Latest design and production technology checked by a fully equipped test lab and validated by a wide range of special and type test certification.
- Finite Elements Design is available for special executions and details engineering, both for electrical and mechanical calculations.

ALL KIND OF DESIGN IMPLEMENTATION AVAILABLE ON REQUEST (if applicable)



Rev.01 – September 25th, 2014