

## TT0

# High efficiency small and medium liquid immersed transformers with low losses design

### **ELECTRICAL DATA & DESIGN FEATURES**

Rating Power:	Up to 30 MVA
Service:	<ul> <li>Network distribution</li> <li>Network transmission</li> <li>Solar</li> <li>Windmill</li> <li>Mining</li> <li>Off-Shore and On-Shore</li> <li>Oil &amp; Gas</li> <li>Hydropower</li> <li>Step-up / Step-down</li> <li>Low temperatures installation</li> <li>High vibration conditions</li> <li>Mobile substations</li> <li>Rectifier multiple pulses</li> <li>Excitation</li> <li>Crane duty</li> <li>Traction</li> <li>Testing laboratories</li> <li>Magnetization equipment</li> </ul>
Construction Type:	<ul> <li>Single, three phase design or Scott design</li> <li>Concentric structure, single or double tier</li> <li>Construction with or w/o intermediate joke</li> </ul>
Cooling:	(K)ONAN - (K)ONAF - (K)OFAF -(K)ODAF - (K)OFWF
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 <sub>m</sub> ):	Up to 72.5 kV
Voltage Regulation:	- No Load Tap Changer (NLTC) - On Load Tap Changer (OLTC)
Secondary Winding:	Single of multi-secondary windings design
Insulating Level: Windingconductors:	Up to L.I. 350 kV Cu or Al
Ambient Temperature (MIN/MAX):	From (minus)-60°C to MAX required design
Altitude of installation:	Up to 4500 m
Installation:	<ul> <li>Arctic areas</li> <li>Desert conditions</li> <li>Off-Shore/Marine</li> <li>Seismic areas</li> <li>Heavy duty (Steel &amp; metal process)</li> <li>Special environment (Panting process)</li> <li>Low noise areas</li> </ul>
Painting Cycles:	Available Know-how in a wide range of environment conditions
Tank Execution:	- Corrugated waves standard or reinforced - Detachable radiator type
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
- Liquid containerization (applicable for small size TTO)
- Life cycle monitor unit device
- Bushing cable boxes and cable glands
- Special bushings and cable termination
- Any other special needs if applicable

#### SPECIAL TECHNICAL REMARKS

- Suitable design with reinforced tank according to specific service conditions.

- Latest design and production technology checked by a fully equipped test lab and validated by a wide range of special and type test certification.

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



Rev.00 - September 15th, 2013

S.E.A. Società Elettromeccanica Arzignanese S.p.A. - Società con Socio Unico, soggetta a direzione e coordinamento di ESSSE S.p.A. Sede Centrale, Legale e Amministrativa: Via Leonardo Da Vinci, 14 - 36071 Tezze di Arzignano (VI) - Italia - Partita IVA 01619830241 Casella Postale 50 - Tel. +39 0444 482100 - Fax. +39 0444 482519 - E-mail: info@seatrasformatori.it - PEC: seatrasformatori@pec.it - Website: www.seatrasformatori.it