



A company of **R&S**



**Big data
needs
best reliability**

Transformers for Data Centres

Tesar srl is a worldwide leader in the supply of cast resin transformers with great experience in the production of tailor-made products.

Particular attention is dedicated to the design of transformers for data centres where the characteristics of maintenance free, low losses, low noise, fire resistance, high capacity to withstand overloads and harmonics are appreciated.

The range of production includes transformers rated from 20MVA - 52kV for every kind of application since 1979 and operates under ISO 9001 quality management system certification. Tesar is an environmentally friendly company in line with ISO 14001 standards and it performs all activities in compliance with ISO 45001 safety standards.

With more than 30 years of experience in the design and production of transformers for data centres, Tesar can boast a long list of realized projects that includes:

- Khazna Data Centre, Abu Dhabi
- Pure Data Centre, Abu Dhabi
- Nautilus Data Centre, Abu Dhabi
- Khazna Data Centre, Dubai
- Etisalat Data Centre, Dubai
- Batelco DC Project, Bahrain
- Dugong DC1, Qatari
- Quantum Switch Data Centre, Qatar
- Meeza Data Centre MV2 and MV4, Qatar
- WIIT Data Centre, Italy
- New R&D Complex ENI, Italy
- CED TIM, Italy
- CED CINECA, Italy
- Amazon Data Centre, Germany

Tesar offer a wide range of customized solutions for feeding Data Centres:

- Transformers with K factor up to 20 (high harmonic content)
- Electrostatic screen between primary and secondary
- Simplified Busbars connection interface
- Configuration for double secondary windings in interleaved (coupling factor > 0,9) or double storey (coupling factor < 0,2)
- Network frequency 50Hz, 60Hz
- Insulation classes F/F or H/H
- MV surge arresters
- Set of fans for power increasing up to +40%
- Environmental, climatic and fire classes up to E4, C3, F1
- Metallic enclosures for indoor and outdoor installation

Tesar successfully passed short circuit tests and all transformers are designed according to latest revisions of applicable standards:

- IEC 60076-4
- IEC 60076-2
- IEC 60076-3
- IEC 60076-5
- IEC 60076-11
- IEC 60076-42
- IEC 61378-1
- EN 50541-2

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We guarantee energy

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Stoecklin**
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ZREW
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