

ROUTINE TESTS (IN HOUSE)

The following routine tests are conducted by qualified, experienced personnel in TMC internal Test Laboratories on all dry-type transformers in accordance with the requirements of International Standard IEC 60076-11 “Dry-type Transformers”:

1. Measurement of voltage ratio and check of phase displacement
2. Measurement of winding resistance
3. Measurement of DC insulation resistance
4. Separate-source AC voltage withstand test
5. Induced AC voltage withstand test
6. Partial discharge measurement
7. Measurement of no-load loss and current
8. Measurement of short-circuit impedance and load loss
9. Insulation of auxiliary wiring

TYPE TESTS (IN HOUSE)

The following type tests can be carried out in-house at additional cost:

1. Sound Level
2. Impulse Voltage
3. Zero Phase Sequence Impedance
4. Temperature Rise
5. Harmonic Analysis
6. Winding Capacitance

SPECIAL TESTS (BY INDEPENDENT LABORATORIES)

TMC has a comprehensive library of previously conducted and independently audited special tests confirming the performance and quality of TMC’s transformers including:

**Climatic Test C2
Environmental Test E2
Fire Behaviour Test F1** : **CESI Testing & Certification Division, Milan Italy**

**Climatic Test C2
Environmental Test E3** : **Tecnalia Electrical Equipment Laboratory, Bilbao Spain**

Short Circuit Withstand Test : **Tecnalia Electrical Equipment Laboratory, Bilbao Spain
Testing & Certification, Sydney Australia**

Seismic Qualification : **Earthquake & Engineering Laboratory, Bristol UK**

DNV GL Offshore Standard OS-D201 : **DNV GL, Oslo Norway**

INTERNATIONAL ACCREDITATION



ISO 9001
Quality
Assurance



ISO 14001
Environmental
Management



OHSAS 18001
Occupational
Health and Safety

INTERNATIONAL CERTIFICATION



TMC transformers are listed by Canadian Standards Association (CSA) Group as certified up to 5MVA 25kV class and NEMA 3R enclosure. CSA Record No. 271663