TESTING AND MEASURING EQUIPMENT/ALLOWED SUBCONTRACTING

Motor capacitors

IEC 60252 3. Edition (1993-09)

R=Required by Lab
S=May be subcontracted

Clause	Measurement/testing	Testing / measuring equipment / material needed	Subcontracting
2.6	Visual examination	No special equipment required	R
2.7	Electrical tests: High voltage test between terminals	AC source Voltage measurement instrument	R
2.8	Electrical tests: High voltage test between terminals and case	AC High voltage tester (0 - 3 kV) Voltage measurement instrument	R
2.9	Capacitance	Capacitance meter	R
2.10	Check of dimensions	Sliding gauge	R
2.11.1.1	Test Ua: Tensile	Dynamometer	R
2.11.1.2	Test Ub: Bending	Dynamometer	R
2.11.1.3	Test Uc: Torsion	Dynamometer	R
2.11.1.4	Test Du: Torque	Torque meter	R
2.11.2	Solderability	Soldering iron, soldering bath	S
2.11.3	Vibration	Vibrating device	S
2.12	Sealing	Ventilation oven 40 – 150 °C ±2°C	R
2.13	Endurance	AC source 200 – 850V ±2% Ventilated oven 40 – 150°C ±2°C	R
2.14	Damp heat	Climatic chamber 40°C ±2°C / 93 +2...3% RH	R

Clause	Measurement/testing	Testing / measuring equipment / material needed	Subcontracting
2.15	Self-healing test	AC source, voltage measurement instrument Apparatus for detection of self-healing breakdowns (e.g. acoustic detection)	R
2.16	Destruction test	AC source, voltage measurement instrument DC High voltage tester, voltage measurement instrument Variable inductor or range of inductors Temperature chamber (forced circulation) Current measurement instrument	R
4.1	Creepage distance Clearance	Sliding gauge	R

Note: The presence of equipment alone does not indicate a satisfactory situation. Assessors must evaluate the equipment design, calibration, uncertainty and documentation to ensure compliance with the directions of the standard. The requirements of ISO Guide 25 regarding validation are applicable, as the tests of this standard are not standardised tests.