



TESTING AND MEASURING EQUIPMENT/ALLOWED SUBCONTRACTING
IEC 60252-1:2010-09, Edition 2.0
AC motor capacitors –
Part 1: General – Performance, testing and rating – Safety requirements –
Guidance for installation and operation

R = Required to be at Lab
S = May be subcontracted
W = May be witnessed at MTL
SF = Specialized Facility
3PPS = Three Phase Power Supply required

Clause	Measurement/testing	Testing / measuring equipment / material needed	Subcontracting
5.6	Visual examination	No special equipment required	-
5.7	Voltage test between terminals	AC source Voltage measurement instrument	R
5.8	Voltage test between terminals and case	AC high voltage tester (0 to 3 kV) Voltage measurement instrument	R
5.9	Capacitance measurement	Capacitance meter (measurement at rated voltage) (Alternatives described in the standard)	R
5.10	Check of dimensions	Sliding gauge	R
5.11.1	Robustness of terminations (tensile, bending, torsion, torque)	Mechanical testing facilities according to IEC 60068-2-21	R
5.11.2	Soldering	Soldering iron / soldering bath	S
5.11.3	Vibration	Vibration test equipment	S
5.11.4	Fixing bolt or stud (torque)	Torque meter	R
5.12	Sealing test	Ventilation oven 40 to 150 °C ± 2 °C	R

Clause	Measurement/testing	Testing / measuring equipment / material needed	Subcontracting
5.13	Endurance test	AC source 200 to 850V \pm 2 % Ventilated oven 40 to 150°C \pm 2 °C	R
5.14	Damp-heat test	Climatic chamber 40°C \pm 2°C / 93 % \pm 3% RH	R
5.15	Self-healing test	AC source Voltage measurement instrument Apparatus for detection of self-healing breakdowns (e.g. acoustic detection) Insulation resistance meter	R
5.16	Destruction test	AC source Voltage measurement instrument DC high voltage tester Variable inductor or range of inductors Temperature chamber (forced circulation) Current measurement instrument	R
5.17	Resistance to heat, fire and tracking	Ball pressure test apparatus; Heating cabinet Glow-wire test apparatus Tracking test device	R
7.1	Creepage distances and clearances	Slide caliper	R
8	Marking	No special equipment required	-