1. Record Nr. UNISA996280735203316 IEEE Std 1310-2012 (Revision of IEEE Std 1310-1996) - Redline: IEEE **Titolo** Recommended Practice for Thermal Cycle Testing of Form-Wound Stator Bars and Coils for Large Rotating Machines - Redline / / IEEE New York, NY, USA:,: IEEE,, 2012 Pubbl/distr/stampa **ISBN** 0-7381-7568-4 Descrizione fisica 1 online resource (58 pages) Disciplina 543.086 Thermal analysis Soggetti Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Sommario/riassunto This procedure is intended for form-wound bars/coils for rotating machines rated 10 kV or more at 50 Hz or 60 Hz that are subjected to many transitions from no-load to full-load current during normal operations, and where rapid load variations are typical. Only the thermal cyclic degradation within the groundwall insulation and/or the conductor package and delamination of the groundwall insulation from the conductor are addressed by this test. The procedure is applicable to indirectly-cooled machine types such as: (1) combustion turbine generators (2) pumped storage or peaking duty hydrogenerators (3) synchronous condensers (4) cyclic duty water pump motors. Various pass/fail criteria are presented, and the ones that apply in a specific circumstance must be agreed between user and manufacturer prior to commencement of testing.