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(PREVIEW)

Indian Standard

POWER ELECTRON-ICS FOR ELECTRICAL TRANSMISSION AND DISTRIBUTION SYSTEMS — TESTING OF THYRISTOR VALVES FOR STATIC VAR COMPENSATORS

1 Scope

This International Standard defines type, production' and optional tests on thyristor valves used in thyristor controlled reactors (TCR), thyristor switched reactors (TSR) and thyristor switched capacitors (TSC) forming part of static VAR compensators (SVC) for power system applications. The requirements of the standard apply both to single valve units (one phase) and to multiple valve units (several phases).

Clauses 4 to 7 detail the type tests, i.e. test-s which are carried out to verify that the valve design meets the requirements specified. Clause 8 covers the production tests, i.e. tests which are carried out to verify proper manufacturing. Clauses 9 and 10 detail optional tests, i.e. tests additional to the type and production tests.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60060 (all parts), *High-voltage test techniques*

IEC 60060-1, High-voltage *test techniques - Part 1: General definitions and test requirements*

IEC 60060-2, *High-voltage test techniques - Part 2: Measuring systems*

IEC 60071 (all parts), *lnsulation co-ordination*

IEC *60071-1:1993, Insuiation co-ordination - Part 1: Definitions, principles and rules*

IEC *60270, Partial discharge measurements*

IEC 60700-1:1998, *Thyristor* valves *for high-voltage direct current (HVDC) power transmission -Part 1: Electrical testing*