

ANSI C50.13-1977

(Revision of C50.13-1965)

American National Standard Requirements for Cylindrical-Rotor Synchronous Generators

Secretariat

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Foreword

(This Foreword is not a part of American National Standard Requirements for Cylindrical-Rotor Synchronous Generators, C50.13-1977.)

Developed over a period of more than two years within a working group that reflected wide industrial experience in both the manufacture and use of Synchronous Generators, American National Standard C50.13-1977 received the unanimous approval of the C50.1 Subcommittee on Synchronous Machines as well as the full endorsement of American National Standards Committee C50 on Rotating Electrical Machinery.

It is the intent of C50 to revise and update this standard at regular intervals, and comments on this document, including recommendations for its revision, will be welcomed by the Committee. Please forward comments to the Secretary, American National Standards Committee C50, American National Standards Institute, 1430 Broadway, New York, N.Y. 10018.

At the time it approved this standard, American National Standards Committee C50 on Rotating Electrical Machinery had the following membership:

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American National Standard Requirements for Cylindrical-Rotor Synchronous Generators

1. Scope

The requirements in this standard apply to 60 hertz cylindrical-rotor synchronous generators, except those covered in C50.14-1977.

All requirements and definitions, except as specifically covered in this standard, shall be in accordance with American National Standard C50.10-77.

2. Classification

A cylindrical-rotor synchronous generator is classified by one of the stator and one of the rotor types.

2.1 Stator Types¹

The type of stator is defined by the method of armature winding cooling, either directly or indirectly.

2.2 Rotor Types¹

The type of rotor is defined by the method of field winding cooling, either directly or indirectly.

3. Usual Service Conditions

The usual service conditions upon which the requirements for cylindrical-rotor synchronous generators are based are given in ANSI C50.10-1977. In addition to these usual service conditions, the following requirements shall be met.

¹Refer to ANSI C50.10-1977 for definitions.