

American National Standard

guide for calculating losses in isolated phase bus

ANSI/IEEE C37.23-1969



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SH01875

An American National Standard

**IEEE Guide for Calculating
Losses in Isolated-Phase Bus**

Approved July 7, 1970
American National Standards Institute

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FOREWORD

A Proposed Guide for Calculating Losses in Isolated-Phase Bus was prepared as a Committee Report by a Working Group of the Switchgear Assemblies Subcommittee of the IEEE Switchgear Committee. This Report was presented at the IEEE Winter Power Meeting, New York, N. Y., January 28–February 2, 1968. It was published in *IEEE Transactions on Power Apparatus and Systems*, vol. PAS-87, pp. 1730–1737, August 1968.

In this issue, Figure 1 of the original paper has been replaced in order to make the Guide more useful in determining skin effect of very large diameter isolated-phase bus enclosures. In addition, formulas (11) and (12) have been added to provide for more accurate calculation of loss in continuous isolated-phase bus enclosures. Other changes are editorial in nature.

Calculated values for isolated-phase bus losses using the Guide have been compared with measured values using calorimetric method of loss measurement. Close agreement was obtained.

ACKNOWLEDGMENT

The Institute wishes to acknowledge its indebtedness to those who have so freely given of their time and knowledge and have conducted experimental work on which many of the IEEE publications are based.

The major work in preparing this Guide was carried out over a period of years by a Working Group of the Switchgear Assemblies Subcommittee of the Switchgear Committee of the IEEE Power Group. Personnel of this Working Group included:

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