

**SINGAPORE STANDARD****Code of practice for application, operation  
and maintenance of dry-type transformers**

(Formerly CP 58)



Published by

**Enterprise**  
**Singapore**

## **SS 516 : 2005**

(ICS 29.180)

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### SINGAPORE STANDARD

## **Code of practice for application, operation and maintenance of dry-type transformers**

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ISBN 981-4154-17-2

This Singapore Standard was approved by the Electrical and Electronic Standards Committee on behalf of the Standards Council of Singapore on 14 October 2005.

First published, 1992

First revision, 2005

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\*served until January 2005

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## **Foreword**

This Code of Practice is a revision of Singapore Standard CP 58 : 1992 and has been renumbered as SS 516. It was prepared by the Technical Committee on Power Transformers under the purview of the Electrical and Electronic Standards Committee.

This code provides guidelines on maintenance and operation of dry-type transformers. Additional information on these transformers are given in Annexes A to D.

The following publications were referred to during the preparation of this code:

- |   |                         |  |
|---|-------------------------|--|
| 1 | IEC 60076-1 : 2000      | Power transformers Part 1 : General  |
| 2 | IEC 60076-11 : 2004     | Power transformers Part 11 : Dry-type transformers   |
| 3 | ANSI/IEEE C57.94 : 1982 | IEEE recommended practice for installation, application, operation and maintenance of dry-type general purpose distribution and power transformers |

Acknowledgement is made for the use of information from the above publications.

Attention is drawn to the possibility that some of the elements of this Singapore Standard may be the subject of patent rights. Enterprise Singapore shall not be held responsible for identifying any or all of such patent rights.

### **NOTE**

1. *Singapore Standards (SSs) and Technical References (TRs) are reviewed periodically to keep abreast of technical changes, technological developments and industry practices. The changes are documented through the issue of either amendments or revisions.*
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# Code of practice for application, operation and maintenance of dry-type transformers

## 1 Scope

This code provides guidelines on the application, operation, and maintenance of dry-type power transformers having values of highest voltage for equipment up to and including 24 kV and at least one winding operating at greater than 1.1 kV. It aims to provide guidance on the safe and effective operation of transformers to minimise risk of breakdown and consequent interruption of supply.

The following dry-type transformers are not covered by this code:

- a) gas-filled dry-type transformers;
- b) single-phase transformers rated at less than 5 kVA;
- c) polyphase transformers rated at less than 15 kVA;
- d) instrument transformers;
- e) starting transformers;
- f) testing transformers;
- g) traction transformers mounted on rolling stock;
- h) flameproof and mining transformers;
- i) welding transformers;
- j) voltage regulating transformers; and
- k) small power transformers in which safety is a special consideration.

## 2 Normative references

The following reference documents are indispensable for the application of this code. The latest edition of the reference document (including any amendments) applies.

SS 404	Power transformers Part 1 : General
SS CP 16	Code of practice for earthing
IEC 60076	Power transformers Part 11 : Dry-type transformers
IEC 60050	International electrotechnical vocabulary