

Australian Standard[®]

Tap-changers

Part 2: Application guide

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Tap-changers

Part 2: Application guide

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PREFACE

This Standard was prepared by the Standards Australia Committee EL-008, Power Transformers to supersede AS 2326.2—1991. *On-load tap-changers, Part 2: Application guide* on publication.

The objective of this Standard is to provide assistance for designers and users in the selection of tap-changers and to provide information about the different types of tap-changers.

This Standard has been reproduced from IEC 60214-2, Ed. 1.0 (2004), *Tap-changers—Part 2: Application guide*. An explanatory Note has been added to Clause 6.2.15. This Note is identified by shading (example).

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INTRODUCTION

The recommendations in this application guide represent advice to the tap-changer manufacturer and purchaser.

It is stressed that the responsibility for the correct application of the fully assembled tap-changers in connection with the transformer lies with the manufacturer of the transformer.

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Australian Standard
Tap-changers
Part 2: Application guide

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1 Scope

This part of IEC 60214 is intended to assist in the selection of tap-changers prescribed in accordance with IEC 60214-1 for use in conjunction with the tapped windings of transformers or reactors. It is also intended to assist in understanding the various types of tap-changers and their associated equipment available. The application guide covers on-circuit tap-changers (resistor and reactor types) and off-circuit tap-changers.

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 60076-1:1993, Power transformers – Part 1: General – Amendment 1(1999)¹~~

AS 60076.1, *Power transformers, Part 1: General*

~~IEC 60076-3:2000, Power transformers – Part 3: Insulation levels, dielectric tests and external clearances in air~~

~~IEC 60076-5:2000, Power transformers – Part 5: Ability to withstand short circuit~~

~~IEC 60076-11:2004, Power transformers – Part 11: Dry-type transformers~~

AS 60076.11, *Power transformers, Part 11: Dry-type transformers*

~~IEC 60214-1:2003, Tap-changers – Part 1: Performance requirements and test methods~~

AS 60214.1, *Tap-changers, Part 1: Performance requirements and test methods*

~~IEC 60296:2003, Fluids for electrotechnical applications – Unused mineral insulating oils for transformers and switchgear~~

~~IEC 60354:1991, Loading guide for oil-immersed power transformers~~

AS 2374.7, *Power transformers, Part 7: Loading guide for oil-immersed power transformers*

¹ There exists a consolidated edition 2.1 (2000) that includes edition 2.0 and its amendment.