AS 60204.1—2005
(Incorporating Amendment No. 1)

Australian Standard®

Safety of machinery—Electrical equipment of machines

Part 1: General requirements (IEC 60204-1, Ed. 5 (FDIS) MOD)

This Australian Standard® was prepared by Committee EL-017, Electrical Equipment of Industrial Machinery. It was approved on behalf of the Council of Standards Australia on 13 July 2005.
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The following are represented on Committee EL-017:

- Australian Chamber of Commerce and Industry
- Department of Consumer and Employment Protection, WorkSafe Division (WA)
- Department of Mineral Resources NSW
- Electrical Regulatory Authorities Council
- Federal Chamber of Automotive Industries
- Victorian WorkCover Authority

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Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through public comment period.

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PREFACE

This Standard was prepared by the Standards Australia Committee EL-017, Electrical Equipment of Industrial Machinery to supersede AS 1543—1985.

This Standard incorporates Amendment No. 1 (August 2006). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.

The objective of this Standard is to provide requirements and recommendations for the electrical equipment of industrial machines with regard to safety of persons and property, consistency of control response, and ease of maintenance. This Standard includes provisions for two-hand control as a safety feature (not previously dealt with in AS 1543).

The need for this Standard was raised during the preparation of revisions to AS 4024.1—1996, *Safeguarding of machinery*, where the Standards Australia Committee SF-041 has adapted a number of International Standards (ISO, IEC, EN Standards) to replace the current AS 4024.1—1996 and include other safety requirements (in addition to safeguarding) associated with safety of industrial machines. These Standards provide guidance in risk control methods following the risk assessment process required in the relevant State and Commonwealth (Plant) Regulations. *Guidance in safety of machinery—Principles of risk assessment* is included in the new AS 4024.1—2004 (draft) and AS/NZS 4360:2004, *Risk management*. Since AS 1543—1985 is now obsolete, an up to date version is required. AS 1543—1985 was adapted from IEC 204-1 at the time and since that period, IEC 204-1 has been updated to IEC 60204.1.

This Standard is an adoption with national modifications and has been reproduced from the draft IEC 60204-1, Ed. 5 (FDIS), *Safety of machinery—Electrical equipment of machines – Part 1: General requirements*, and has been varied as indicated to take account of Australian/New Zealand conditions.

Variations to IEC 60204-1, Ed. 5 (FDIS) are indicated at the appropriate places throughout this standard. Strikethrough (~~example~~) identifies IEC text, tables and figures which, for the purposes of this Australian Standard, are deleted. Where text, tables or figures are added, each is set in its proper place and identified by shading (example). Added figures are not themselves shaded, but are identified by a shaded border.

As this Standard is reproduced from an International Standard, the following applies:

(a) Its number does not appear on each page of text and its identity is shown only on the cover and title page.

(b) In the source text ‘IEC 60204-1’ should read ‘AS 60204.1’.

(c) A full point should be substituted for a comma when referring to a decimal marker.

(d) Any French text on figures should be ignored.

(e) The recommended colour coding (see Clause 13.2) for neutral and live insulated conductors conflicts with the colour coding given in AS/NZS 3000 for fixed wiring.

The terms ‘normative’ and ‘informative’ are used to define the application of the annex to which they apply. A normative annex is an integral part of a standard, whereas an informative annex is only for information and guidance.

CONTENTS

Page