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AS 60529-2004 (R2018) Degrees of protection provided by enclosures (IP Code)

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Abbreviation

AS 60529-2004

Valid from

27/01/2004

Information provider

SAI Global

Author

Standards Australia

Information type

Australian Standard

Format

PDF

Cited By

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Description

This Standard specifies an alphanumeric code for classifying the degrees of protection provided by enclosures for electrical equipment rated up to 72.5 kV. It covers protection of persons against access to hazardous parts and of equipment against ingress of solid foreign objects, dust, and harmful quantities of water. Tests, access, probes and object probes and other test equipment are specified.

This Standard is reproduced from IEC 60529 Ed 2.1:2001.

Scope

This standard applies to the classification of degrees of protection provided by enclosures for electrical equipment with a rated voltage not exceeding 72,5 kV. The object of this standard is to give:

- a) Definitions for degrees of protection provided by enclosures of electrical equipment as regards:
 1. protection of persons against access to hazardous parts inside the enclosure;
 2. protection of the equipment inside the enclosure against ingress of solid foreign objects;
 3. protection of the equipment inside the enclosure against harmful effects due to the ingress of water.
- b) Designations for these degrees of protection.
- c) Requirements for each designation.
- d) Tests to be performed to verify that the enclosure meets the requirements of this standard.

It will remain the responsibility of individual technical committees to decide on the extent and manner in which, the classification is used in their standards and to define enclosure as it applies to their equipment. However, it is recommended that for a given

classification the tests do not differ from those specified in this standard. If necessary, complementary requirements may be included in the relevant product standard.

A guide for the details to be specified in relevant product standards is given in annex B. For a particular type of equipment, a technical committee may specify different requirements provided that at least the same level of safety is ensured.

This standard deals only with enclosures that are in all other respects suitable for their intended use as specified in the relevant product standard and which from the point of view of materials and workmanship ensure that the claimed degrees of protection are maintained under the normal conditions of use.

This standard is also applicable to empty enclosures provided that the general test requirements are met and that the selected degree of protection is suitable for the type of equipment to be protected.

Measures to protect both the enclosure and the equipment inside the enclosure against external influences or conditions such as mechanical impacts corrosion corrosive solvents (for example, cutting liquids) fungus vermin solar radiation icing moisture (for example, produced by condensation) explosive atmospheres and the protection against contact with hazardous moving parts external to the enclosure (such as fans), are matters for the relevant product standard to be protected.

Barriers external to the enclosure and not attached to it and obstacles which have been provided solely for the safety of personnel are not considered as a part of the enclosure and are not dealt with in this standard.

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- [AS/NZS 1680.1:2006](#)

AS 60529-2004 is cited by AS/NZS 1680.1:2006 Interior and workplace lighting - Part 1: General principles and recommendations

- [AS/NZS 3000:2007](#)

AS 60529-2004 is cited by AS/NZS 3000:2007 Electrical installations (known as the Australian/New Zealand Wiring Rules)

- [NZS 4510:2008](#)

AS 60529-2004 is cited by NZS 4510:2008 Fire hydrant systems for buildings

- [NZS 4512:2010](#)

AS 60529-2004 is cited by NZS 4512:2010 Fire detection and alarm systems in buildings

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