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AS/NZS 61000.6.3:2021

Australian/New Zealand Standard™

# Electromagnetic compatibility (EMC)

## Part 6.3: Generic standards — Emission standard for equipment in residential environments (IEC 61000-6-3:2020 (ED 3.0) MOD)

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The following are represented on Committee TE-003:

Australian Broadcasting Corporation
Australian Communications and Media Authority
Australian Industry Group
Consumer Electronics Suppliers Association
Department of Defence (Australian Government)
EMC Society of Australia
Energy Networks Australia
Engineers Australia
Free TV Australia
Lighting Council New Zealand
NZ Ministry of Business, Innovation and Employment (MBIE)
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Wireless Institute Australia

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# Preface

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee TE-003, Electromagnetic Compatibility, to supersede AS/NZS 61000.6.3:2012, *Electromagnetic compatibility (EMC), Part 6.3: Generic standards—Emission standard for residential, commercial and light-industrial environments*.

The objective of this document is to specify emission requirements for electrical and electronic equipment intended for use at residential locations. This document also applies to electrical and electronic equipment intended for use at other locations that do not fall within the scope of AS/NZS 61000.6.8 or AS 61000.6.4.

This document applies only if no relevant dedicated product or product family EMC emission standard has been published.

The intention is that all equipment used in the residential, commercial, and light-industrial environments are covered by this document or AS/NZS 61000.6.8. If there is any doubt the requirements in this document apply.

The conducted and radiated emission requirements in the frequency range up to 400 GHz are considered essential and have been selected to provide an adequate level of protection of radio reception in the defined electromagnetic environment. Not all disturbance phenomena have been included for testing purposes but only those considered relevant for the equipment intended to operate within the locations included within this document.

The emission requirements in this document are not intended to be applicable to the intentional transmissions and their harmonics from a radio-transmitter as defined by the ITU.

NOTE 1 Safety considerations are not covered by this document.

NOTE 2 In special cases, situations will arise where the levels specified in this document will not offer adequate protection; for example, where a sensitive receiver is used in close proximity to an equipment. In these instances, special mitigation measures can be employed.

NOTE 3 Disturbances generated in fault conditions of equipment are not covered by this document.

NOTE 4 As the requirements in this document are more stringent or equivalent to those requirements in AS 61000.6.4 and AS/NZS 61000.6.8, equipment fulfilling the requirements of this document conform to the requirements of AS 61000.6.4 and AS/NZS 61000.6.8.

This document is an adoption with national modifications, and has been reproduced from, IEC 61000-6-3:2020 Ed 3.0, *Electromagnetic compatibility (EMC) — Part 6-3: Generic standards - Emission standard for equipment in residential environments.* The modifications are additional requirements and are set out in Appendix ZZ, which has been added at the end of the source text.

Appendix ZZ lists the variations to IEC 61000-6-3:2020 for the application of this document in Australia and New Zealand.

As this document has been reproduced from an International Standard the following applies:

(a) In the source text “this part of IEC 61000” should read “this document”.

(b) A full point substitutes for a comma when referring to a decimal marker.

Australian or Australian/New Zealand Standards that are identical adoptions of international normative references may be used interchangeably. Refer to the online catalogue for information on specific Standards.

The terms “normative” and “informative” are used in Standards to define the application of the appendices or annexes to which they apply. A “normative” appendix or annex is an integral part of a Standard, whereas an “informative” appendix or annex is only for information and guidance.

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