AS/NZS 61000.3.2:1998 IEC 61000-3-2:1995

Australian/New Zealand Standard™

Electromagnetic compatibility (EMC)

Part 3.2: Limits—Limits for harmonic current emissions (equipment input current less than or equal to 16 A per phase)

[IEC title: Electromagnetic compatibility (EMC), Part 3: Limits—Section 2: Limits for harmonic current emissions (equipment input current ≤16 A per phase)]

AS/NZS 61000.3.2:1998

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL/34, Power Quality. It was approved on behalf of the Council of Standards Australia on 11 February 1998 and on behalf of the Council of Standards New Zealand on 12 February 1998. It was published on 5 May 1998.

The following interests are represented on Committee EL/34:

Association of New Zealand Electrical Appliance Distributors
Australasian Railway Association
Australian Chamber of Commerce and Industry
Australian Electrical and Electronic Manufacturers Association
Bureau of Steel Manufacturers of Australia
Electricity Engineers Association of New Zealand
Electricity Supply Association of Australia
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Originated in Australia as AS 2279.1—1979. Final Australian edition AS 2279.1—1991. Jointly revised and redesignated AS/NZS 61000.3.2:1998.

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL/34, Power Quality, to supersede AS 2279.1—1991, Disturbances in mains supply networks, Part 1: Limitation of harmonics caused by household and similar electrical appliances.

It is one of a series which will replace the AS 2279 series by adopting relevant IEC Standards in the IEC 61000, *Electromagnetic compatibility (EMC)*—Part 3: *Limits* series. This Standard is technically equivalent to and has been reproduced from IEC 61000-3-2, *Electromagnetic compatibility (EMC)*—Part 3: *Limits*—Section 2: *Limits for harmonic current emissions (equipment input current* \leq 16 A per phase).

Variations necessary for Australian/New Zealand requirements are given in Annex ZZ and are indicated in the text by a marginal bar set adjacent to the affected text.

The objective of this Standard is to provide manufacturers and suppliers of electricity and users of electrical equipment intended for connection to an electrical network with limits for voltage disturbances and harmonics produced by that equipment and the methods for ascertaining compliance to them in order to maintain electromagnetic compatibility within the electrical network.

The AS/NZS 61000 series will comprise the following parts:

- Part 3.2: Limits—Limits for harmonic current emission (equipment input current less than or equal to 16 A per phase)
- Part 3.3: Limits—Limitation of voltage fluctuations and flicker in low-voltage supply systems for equipment with rated current less than or equal to 16 A
- Part 3.5: Limits—Limitation of voltage fluctuations and flicker in low-voltage power supply systems for equipment with rated current greater than 16 A
- Part 3.6: Limits—Assessment of emission limits for distorting loads in MV and HV power systems—Basic EMC publication
- Part 3.7: Limits—Assessment of emission limits for fluctuating loads in MV and HV power systems—Basic EMC publication
- Part 4.7: Testing and measurement techniques—General guide on harmonics and interharmonics measurement and instrumentation, for power supply systems and equipment connected thereto

As they become available from the IEC these parts will be progressively introduced to replace the current 1991 series.

This Standard should be read in conjunction with the regulations, service rules and installation rules of the supply authority approving the connection.

This Standard specifies limits for harmonic components of the input current which may be produced by equipment such as motor driven appliances, lighting equipment and electronic equipment with input currents less than or equal to 16 A per phase when tested under specified conditions. The tests and conditions are included.

The term 'normative' has been used in this Standard to define the application of the annex to which it applies. A 'normative' annex is an integral part of a Standard.

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, 'this International Standard' should read 'this Australian/New Zealand Standard'.
- (c) A full point substitutes for a comma when referring to a decimal marker.

References to international Standards should be replaced by equivalent Australian or Joint Australian/New Zealand Standards as follows:

Reference to International Standards or other publications		Australian or Joint Australian/New Zealand Standard			
IEC 60050	International electrotechnical	AS 1852	International electrotechnical		
60050(13	vocabulary (IEV) 1) Chapter 131: Electric and magnetic circuits	1852.131	vocabulary Part 131: Electric and magnetic circuits		
60050(16	1) Chapter 161: Electric and magnetic compatibility				
60065	Safety requirements for mains operated electronic and related apparatus for household and similar general use	AS/NZS 3250	Approval and test specification—Mains operated electronic and related equipment for household and similar general use		
Amendment No. 2 Amendment No. 3					
60107		AS			
60107	Recommended methods of measurement on receivers for television broadcast transmissions	1173	Recommended methods of measurement on receivers for television broadcast transmissions Part 1: General considerations—Electrical measurements other than those at audio-frequencies		
60107-1	Part 1: General considerations—Electrical measurements other than those at audio-frequencies	1173.1			
60155	Glow-starters fluorescent lamps	4111	Starters for fluorescent lamps—Performance requirements		
60268 60268-3	Sound system equipment Part 3: Amplifiers	1127 1127.6	Sound system equipment Part 6: Amplifiers		
		AS/NZS			
60335	Safety of household and similar electrical appliances	3350	Approval and test specification— Safety of household and similar		
60333-2-	7 Part 2: Particular requirements for washing machines	3350.2.7	electrical appliances Part 2.7 Particular requirements— Washing machines		
61000 Electromagnetic compatibility (EMC) —					
61000-2-2	Section 2: Compatibility levels for low-frequency conducted disturbances				
	and signalling in public low-voltage power supply systems				
61000-4-7 Part 4: Testing and measurement		_			
	techniques—Section 7: General guide on harmonics and				
	interharmonics measurements and				
	instrumentation, for power supply systems and equipment connected				
	thereto				



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