AS/NZS IEC 61000.3.12:2013
IEC 61000-3-12, Ed. 2.0 (2011)

AS/NZS IEC 61000.3.12:2013

Australian/New Zealand Standard™

Electromagnetic compatibility (EMC)

Part 3.12: Limits—Limits for harmonic currents produced by equipment connected to public low-voltage systems with input current >16 A and ≤75 A per phase

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL-034, Power Quality. It was approved on behalf of the Council of Standards Australia on 13 June 2013 and on behalf of the Council of Standards New Zealand on 16 May 2013.
This Standard was published on 27 June 2013.

The following are represented on Committee EL-034:

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This Standard was issued in draft form for comment as DR AS/NZS IEC 61000.3.12.

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Originated as AS/NZS 61000.3.12:2006.
Jointly revised and designated AS/NZS IEC 61000.3.12:2013.

Jointly published by SAI Global Limited under licence from Standards Australia Limited, GPO Box 476, Sydney, NSW 2001 and by Standards New Zealand, Private Bag 2439, Wellington 6140.

ISBN 978 1 74342 525 1

PREFACE

This Standard was prepared by the Standards Australia Committee EL-034, Power Quality, to supersede AS/NZS 61000.3.12:2006, *Electromagnetic compatibility (EMC),* Part 3.12: *Limits—Limits for harmonic currents produced by equipment connected to public low-voltage systems with input current >16 A and ≤75 A per phase*.

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.

This Standard is identical with, and has been reproduced from IEC 61000-3-12, Ed. 2.0 (2011), *Electromagnetic compatibility (EMC),* Part 3-12: *Limits—Limits for harmonic currents produced by equipment connected to public low-voltage systems with input current >16 A and ≤ 75 A per phase*.

IEC has prepared an Interpretation Sheet regarding the application of IEC 61000-3-12, Ed. 2.0 (2011). The IEC Interpretation Sheet has been included in this Standard (AS/NZS IEC 61000.3.12).

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

(a) The International Standard number appears only on the cover.

(b) In the source text ‘this part of IEC 61000’ 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 references to Australian or Australian/New Zealand Standards, as follows:

Reference to International Standard		*Australian/New Zealand Standard*	
IEC		AS	
60038	IEC standard voltages	60038	Standard voltages
		AS/NZS	
61000	Electromagnetic compatibility (EMC)	61000	Electromagnetic compatibility (EMC)
61000-2-2	Part 2-2: Environment—Compatibility levels for low-frequency conducted disturbances and signalling in public low-voltage power supply systems	61000.2.2	Part 2.2: Environment—Compatibility levels for low-frequency conducted disturbances and signalling in public low-voltage power supply systems
61000-2-4	Part 2-4: Environment—Compatibility levels in industrial plants for low-frequency conducted disturbances	61000.2.4	Part 2.4: Environment—Compatibility levels in industrial plants for low-frequency conducted disturbances
61000-3-2	Part 3-2: Limits—Limits for harmonic current emissions (equipment input current ≤16 A per phase)	61000.3.2	Part 3.2: Limits—Limits for harmonic current emissions (equipment input current ≤16 A per phase)
61000-4-7	Part 4-7: Testing and measurement techniques—General guide on harmonics and interharmonics measurements and instrumentation, for power supply systems and equipment connected thereto	61000.4.7	Part 4.7: Testing and measurement techniques—General guide on harmonics and interharmonics measurements and instrumentation, for power supply systems and equipment connected thereto

Only international references that have been adopted as Australian or Australian/New Zealand Standards have been listed.

The terms ‘normative’ and ‘informative’ have been used in this Standard 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.