This is a free page sample. Access the full version online.

AS/NZS 61000.3.12:2006
IEC 61000-3-12, Ed. 1 (2004)

AS/NZS 61000.3.12:2006

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

STANDARDS Australia

STANDARDS NEW ZEALAND PAEREWA AOTEAROA

This is a free page sample. Access the full version online.

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 27 June 2006 and on behalf of the Council of Standards New Zealand on 23 June 2006.
This Standard was published on 25 August 2006.

The following are represented on Committee EL-034:

Australian Chamber of Commerce and Industry
Australian Electrical and Electronic Manufacturers Association
Australian Energy Market Commission
Australian Information Industry Association
Bureau of Steel Manufacturers of Australia
Consumers Federation of Australia
Electrical Regulatory Authorities Council
Electricity Engineers Association (New Zealand)
Energy Networks Association
Engineers Australia
Ministry of Economic Development (New Zealand)
National Measurement Institute
New Zealand Coordinating Committee on Power & Telecommunication Systems
Telstra Corporation
University of Canterbury New Zealand
University of Wollongong

Keeping Standards up-to-date

Standards are living documents which reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments which may have been published since the Standard was purchased.

Detailed information about joint Australian/New Zealand Standards can be found by visiting the Standards Web Shop at www.standards.com.au or Standards New Zealand web site at www.standards.co.nz and looking up the relevant Standard in the on-line catalogue.

Alternatively, both organizations publish an annual printed Catalogue with full details of all current Standards. For more frequent listings or notification of revisions, amendments and withdrawals, Standards Australia and Standards New Zealand offer a number of update options. For information about these services, users should contact their respective national Standards organization.

We also welcome suggestions for improvement in our Standards, and especially encourage readers to notify us immediately of any apparent inaccuracies or ambiguities. Please address your comments to the Chief Executive of either Standards Australia or Standards New Zealand at the address shown on the back cover.

This Standard was issued in draft form for comment as DR 06161.

This is a free page sample. Access the full version online.

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

First published as AS/NZS 61000.3.12:2006.

COPYRIGHT

© Standards Australia/Standards New Zealand

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher.

Jointly published by Standards Australia, GPO Box 476, Sydney, NSW 2001 and Standards New Zealand, Private Bag 2439, Wellington 6020

ISBN 0 7337 7677 9

This is a free page sample. Access the full version online.

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-034, Power Quality.

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. 1 (2004), *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*.

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 61000-3-12' should read 'AS/NZS 61000.3.12'.

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

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.

This is a free page sample. Access the full version online.

CONTENTS

Page

1 Scope 1
2 Normative references 2
3 Terms and definitions 2
4 Measurement conditions 6
4.1 Reference fundamental current 6
4.2 Harmonic current measurement 6
4.3 Equipment consisting of several self-contained items 8
5 Requirements and limits for equipment 8
5.1 Control methods 8
5.2 Limits for emission 8
6 Product documentation 11
7 Test and simulation conditions 12
7.1 Requirements for direct measurement 12
7.2 Requirements for simulation 13
7.3 General conditions for test and simulation 14
Annex A (normative) Illustration of limits for harmonic currents 15
Annex B (normative) Approximate interpolation formulas 16
Annex C (informative) Equipment not complying with the requirements and limits of this standard 18
Annex D (informative) Information on the *PWHD* factor 19

SAI GLOBAL

This is a free preview. Purchase the entire publication at the link below:

Product Page

Looking for additional Standards? Visit Intertek Inform Infostore

Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation