

Technical Report

Electromagnetic compatibility (EMC)

Part 2.6: Environment— Assessment of the emission levels in the power supply of industrial plants as regards low- frequency conducted disturbances



TR IEC 61000.2.6:2012

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PREFACE

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

The objective of this Technical Report is to recommend the procedures to assess the disturbance levels (i.e. harmonics and interharmonics, unbalances, voltage changes, voltage dips) produced by the emission of the devices, equipment and systems installed in non-public networks in industrial environment as far as the low-frequency conducted disturbances in the power supply are concerned.

This Technical Report is identical with, and has been reproduced from IEC/TR 61000-2-6, Ed.1.0 (1995), *Electromagnetic compatibility (EMC)—Part 2: Environment—Section 6: Assessment of the emission levels in the power supply of industrial plants as regards low-frequency conducted disturbances*. The IEC processes related to development and approval of a Technical Report are subject to a more moderate level of transparency and consensus than the processes related to developing and approving a normative Standard.

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| <i>Reference to International Standard</i> | | <i>Australian/New Zealand Standard</i> | |
|--|---|--|--|
| IEC | | AS | |
| 60146 | Semiconductor converters | 60146 | Semiconductor converters |
| (all parts) | | (all parts) | |
| | | AS/NZS | |
| 61000 | Electromagnetic compatibility (EMC) | 61000 | Electromagnetic compatibility (EMC) |
| 61000-3-3 | Part 3: Limits—Section 3: Limitation of voltage fluctuations and flicker in low-voltage supply systems for equipment with rated current ≤ 16 A | 61000.3.3 | Part 3.3: Limits—Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection (IEC 61000-3-3, Ed. 1.2(2005) MOD) |
| 61000-3-5 | Part 3: Limits—Section 5: Limitation of voltage fluctuations and flicker in low-voltage power supply systems for equipment with rated current greater than 16 A | 61000.3.5 | 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 |

NOTE: In the International Technical Report, the normative reference to IEC 60050-161, Ed.1.0 (1990), *International Electrotechnical Vocabulary (IEV), Chapter 161: Electromagnetic compatibility* should read as IEC 60050-161, Ed.1.0 (1990), *International Electrotechnical Vocabulary, Chapter 161: Electromagnetic compatibility*.

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