SA/SNZ TR IEC 61000.3.14:2013 IEC/TR 61000-3-14, Ed.1.0 (2011)

Technical Report

Electromagnetic compatibility (EMC)

Part 3.14: Limits—Assessment of emission limits for harmonics, interharmonics, voltage fluctuations and unbalance for the connection of disturbing installations to LV power systems





SA/SNZ TR IEC 61000.3.14:2013

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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 provide guidance to manufacturers and suppliers of electricity on principles that can be used as the basis for determining the requirements for the connection of disturbing installations to low-voltage (LV) public power systems.

This Technical Report is identical with, and has been reproduced from IEC/TR 61000-3-14, Ed.1.0 (2011), Electromagnetic compatibility (EMC)—Part 3-14: Assessment of emission limits for harmonics, interharmonics, voltage fluctuations and unbalance for the connection of disturbing installations to LV power systems. 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.

Further guidelines for the application of this Technical Report in Australia are under consideration.

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

- In the source text 'this part of IEC 61000' should read 'this Technical Report.
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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/TR		SA/SNZ TR IEC	
60725	Consideration of reference impedances and public supply network impedances for use in determining disturbance characteristics of electrical equipment having a rated current ≤75 A per phase	60725	Consideration of reference impedances and public supply network impedances for use in determining disturbance characteristics of electrical equipment having a rated current ≤75 A per phase
IEC		AS/NZS	
61000	Electromagnetic compatibility (EMC)	61000	Electromagnetic compatibility (EMC)
61000-2-2	Part 2-2: Environment—	61000.2.2	Part 2.2: Environment—
(2002)	Compatibility levels for low- frequency conducted disturbances and signalling in public low voltage power supply systems	(2003)	Compatibility levels for low- frequency conducted disturbances and signalling in public low-voltage power supply systems
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)
61000-3-3	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	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/TR 61000-3-6 (2008)	Part 3-6: Limits—Assessment of emission limits for the connection of distorting installations to MV, HV and EHV power systems	SA/SNZ TR 61000.3.6 (2012)	Part 3.6: Limits—Assessment of emission limits for the connection of distorting installations to MV, HV and EHV power systems
61000-3-7 (2008)	Part 3-7: Limits—Assessment of emission limits for the connection of fluctuating load installations to MV, HV and EHV power systems	61000.3.7 (2012)	Part 3.7: Limits—Assessment of emission limits for the connection of fluctuating load installations to MV, HV and EHV power systems
IEC 61000-3-11	Part 3-11: Limits—Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems—Equipment with rated current ≤75 A and subject to conditional connection	AS/NZS 61000.3.11	Part 3.11: Limits—Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems—Equipment with rated current less than or equal to 75 A and subject to conditional connection
61000-3-12	2 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	61000.3.12	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/TR 61000-3-13 (2008)	3 Part 3-13: Limits—Assessment of emission limits for the connection of unbalanced installations to MV, HV and EHV power systems	SA/SNZ TR 61000.3.13 (2012)	Part 3.13: Limits—Assessment of emission limits for the connection of unbalanced installations to MV, HV and EHV power systems
IEC 61000-4-15	5 Part 4-15: Testing and measurement techniques—Flickermeter— Functional and design specifications	AS/NZS 61000.4.15	Part 4.15: Testing and measurement techniques—Flickermeter— Functional and design specifications

The term 'informative' has been used in this Technical Report to define the application of the annex to which it applies. An 'informative' annex is only for information and guidance.



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