AS/NZS IEC 61000.3.11:2023
IEC 61000-3-11:2017

Australian/New Zealand Standard™

Electromagnetic compatibility (EMC)

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

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Originated as AS/NZS 61000.3.11:2002.
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Preface

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-034, Power Quality, to supersede AS/NZS 61000.3.11:2002.

The objective of this document is to specify the emission of voltage changes, voltage fluctuations and flicker produced by equipment and impressed on the public low-voltage supply system.

It specifies the limits of voltage changes produced by equipment tested under specified conditions.

This document is primarily applicable to electrical and electronic equipment having a rated input current from 16 A up to and including 75 A, which is intended to be connected to public low-voltage distribution systems having nominal system voltages of between 220 V and 250 V, line-to-neutral at 50 Hz, and which is subject to conditional connection.

This document is also applicable to equipment within the scope of AS/NZS IEC 61000.3.3:2023 that does not meet the limits when tested or evaluated with reference impedance Zref and is therefore subject to conditional connection. Equipment which meets the requirements of AS/NZS IEC 61000.3.3:2023 is excluded from this part of AS/NZS IEC 61000.

Equipment tests made in accordance with this document are type tests.

This document is an Identical adoption with, and has been reproduced from, IEC 61000-3-11:2017, *Electromagnetic compatibility (EMC) – 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.*

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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ELECTROMAGNETIC COMPATIBILITY (EMC) –

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

FOREWORD

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International Standard IEC 61000-3-11 has been prepared by sub-committee 77A: EMC – Low-frequency phenomena, of IEC technical committee 77: Electromagnetic compatibility.

This second edition cancels and replaces the first edition published in 2000. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

a) addition of a new Annex A which explains the limitations and effectiveness of IEC 61000-3-11 regarding the connection of multiple items of similar equipment at the same location in the supply network.

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The text of this International Standard is based on the following documents:

CDV	Report on voting
77A/929/CDV	77A/947/RVC

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts in the IEC 61000, published under the general title *Electromagnetic compatibility (EMC)*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "http://webstore.iec.ch" in the data related to the specific document. At this date, the document will be

- reconfirmed,
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