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National Standards
Authority of Ireland
Glasnevin, Dublin 9
Ireland

Tel: +353 1 807 3800
Fax: +353 1 807 3838
<http://www.nsai.ie>

**AEROSPACE SERIES - CIRCUIT BREAKERS -
TEST METHODS - PART 308: LIGHTNING**

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**Aerospace series - Circuit breakers - Test methods - Part 308:
Lightning**

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Partie 308 : Foudre

Luft- und Raumfahrt - Schutzschalter - Prüfverfahren - Teil
308: Blitz

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

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Management Centre: rue de Stassart, 36 B-1050 Brussels

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Foreword

This document (EN 3841-308:2004) has been prepared by the European Association of Aerospace Manufacturers - Standardization (AECMA-STAN).

After enquiries and votes carried out in accordance with the rules of this Association, this Standard has received the approval of the National Associations and the Official Services of the member countries of AECMA, prior to its presentation to CEN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 2005, and conflicting national standards shall be withdrawn at the latest by June 2005.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

EN 3841-308:2004 (E)

1 Scope

This standard specifies a method of verifying the ability of circuit breakers to withstand the indirect effects of a stroke of lightning.

It shall be used together with EN 3841-100.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 7137, *Aircraft – Environmental conditions and test procedures for airborne equipment*

EN 3841-100, *Aerospace series – Circuit breakers – Test methods – Part 100: General*

3 Method

3.1 Procedure

The circuit breakers shall be mounted to comply with Figure 22.2 in test procedure 3.8 of ISO 7137.

The circuit breakers shall be tested in accordance with the requirements of ISO 7137, test procedure 3.8 using the test levels quoted in the long wave test category M, (1 600 V and 320 A, duration 6,4 μ s, 70 μ s) in the test document quoted therein.

Five positive and five negative impulses shall be superposed every minute on each of the nominal voltages indicated in the technical specification. The circuit breakers shall be loaded at 0,9 I_n .

3.2 Requirement

The circuit breakers shall not trip during testing.

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