SLOVENSKI STANDARD
SIST EN 3841-508:2005

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Aeronavtika - Odklopniki - Preskusne metode - 508. del: Centrifugalna pospešitev

Aerospace series - Circuit breakers - Test methods - Part 508: Centrifugal acceleration

Luft- und Raumfahrt - Schutzschalter - Prüfverfahren - Teil 508: Zentrifugalbeschleunigung

Série aérospatiale - Disjoncteurs - Méthodes d'essais - Partie 508 : Accélération centrifuge

Ta slovenski standard je istoveten z: **EN 3841-508:2004**

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49.060	Š^æ•\æ§Á ç^•[|b\æ ^|^\dã}æ] ¦^{ æ§Á ã c^{ ã	Aerospace electric equipment and systems

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EUROPEAN STANDARD

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English version

Aerospace series - Circuit breakers - Test methods - Part 508: Centrifugal acceleration

Série aérospatiale - Disjoncteurs - Méthodes d'essais - Partie 508 : Accélération centrifuge

Luft- und Raumfahrt - Schutzschalter - Prüfverfahren - Teil 508: Zentrifugalbeschleunigung

This European Standard was approved by CEN on 10 September 2004.

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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.

CEN members are the national standards bodies of 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.

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Foreword

This document (EN 3841-508:2004) 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of an identical text or by endorsement, at the latest by June 2005, and conflicting national standards shall be withdrawn at the latest by June 2005.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.

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EN 3841-508:2004 (E)

1 Scope

This standard specifies a method of verifying the capability of circuit breakers to withstand centrifugal acceleration.

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 2669, *Environmental tests for aircraft equipment – Steady-state acceleration*

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

3 Method

3.1 Mounting

The circuit breakers shall be mounted in the centrifuge on a rotating support according to 4.2 and 4.3 of EN 3841-100. The electrical connection shall be made with the cables of the section specified in EN 3841-100, Table 1.

The connection cables shall be attached to the support approximately 100 mm from the terminals. The circuit breakers and the cables shall be mounted with the torque indicated in the product standard. The circuit breakers shall be shielded from air flow by a screen.

3.2 Procedure

The behaviour of the circuit breakers in steady-state acceleration shall be tested according to ISO 2669.

The test shall be carried out for six planes of the main axis of the circuit breakers.

Two tests in each direction are required per circuit breaker:

— 1st test: 10 min in the open position;

— 2nd test: 10 min in the closed position, at 90 % of current rating.

The acceleration value shall be specified in the technical specification.

During the test, it shall be established that the contacts do not close for a period ≥ 10 µs (circuit breakers in the open position) or open for a period ≥ 10 µs (circuit breakers in the closed position).

4 Requirement

Requirements in accordance with technical specification and product standard.