



SLOVENSKI STANDARD SIST EN 3841-511:2005

01-april-2005

Aeronavtika - Odklopniki - Preskusne metode - 511. del: Kombinirana metoda: temperatura, višina in vibracije

Aerospace series - Circuit breakers - Test methods - Part 511: Combined test: temperature, altitude and vibration

Luft- und Raumfahrt - Schutzschalter - Prüfverfahren - Teil 511: Kombiniertes Versuch: Temperatur, Höhe und Schwingung

Série aérospatiale - Disjoncteurs - Méthodes d'essais - Partie 511 : Essai combiné : Température, altitude et vibrations

Ta slovenski standard je istoveten z: EN 3841-511:2004

ICS:

49.060 Štejni aparati in oprema za letalstvo in vesolje Aerospace electric equipment and systems

SIST EN 3841-511:2005

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 3841-511

December 2004

ICS 49.060

English version

Aerospace series - Circuit breakers - Test methods - Part 511: Combined test: temperature, altitude and vibration

Série aérospatiale - Disjoncteurs - Méthodes d'essais -
Partie 511 : Essai combiné : température, altitude et
vibrations

Luft- und Raumfahrt - Schutzschalter - Prüfverfahren - Teil
511: Kombiniertes Verfahren: Temperatur, Höhe und
Schwingung

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

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

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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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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

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Foreword

This document (EN 3841-511:2004) 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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1 Scope

This standard specifies a method for a combined test of temperature, altitude and vibration of circuit breakers.

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.

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

EN 3841-506, *Aerospace series – Circuit breakers – Test methods – Part 506: Vibration performance*

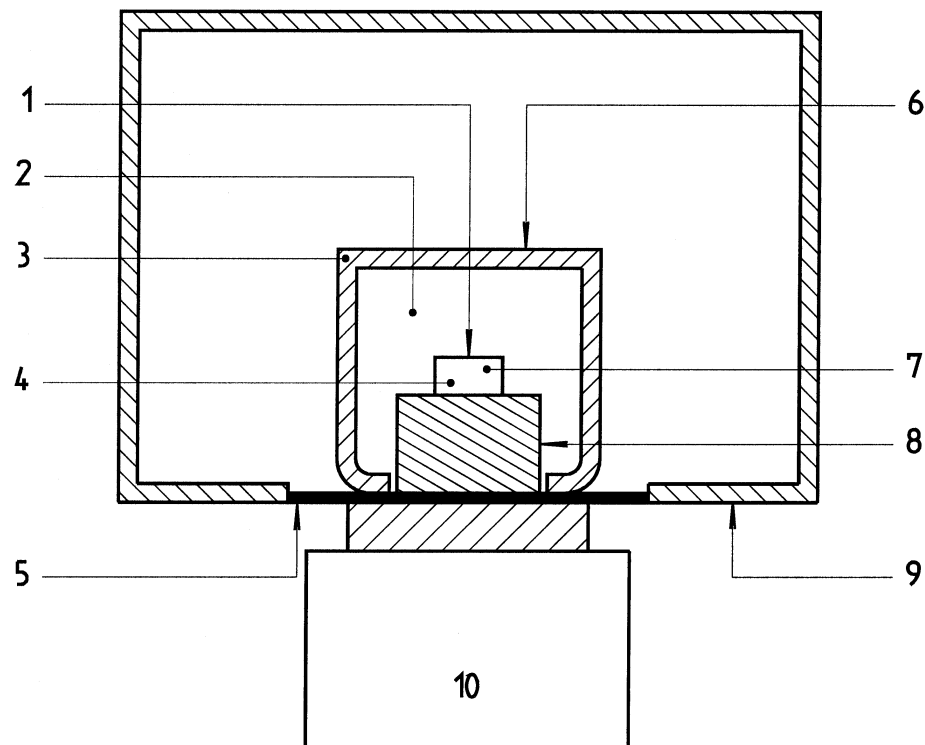
3 Method

3.1 Mounting

The circuit breakers shall be mounted in a test chamber on the vibrator according to 4.2 and 4.3 in EN 3841-100.

The means of mounting shall be designed so as to transmit vibrations over the whole frequency range without absorption or natural resonance. An example of an apparatus is given in Figure 1.

The electrical connection shall be made with the cables of the sections specified in EN 3841-100, Table 1. The connection cables shall be attached to the vibration support approximately 100 mm from the terminals. The circuit breakers and the cables shall be mounted with the torque indicated in the product standard.

**Key**

- | | | | |
|---|--------------------------------|----|----------------------------------|
| 1 | Acceleration control | 6 | Circuit breaker test chamber |
| 2 | Temperature control | 7 | Circuit breaker |
| 3 | Pressure generator and control | 8 | Circuit breaker support |
| 4 | Electrical cables | 9 | Temperature test chamber (fixed) |
| 5 | Flexible seal | 10 | Vibrator |

Figure 1**3.2 Procedure**

The circuit breakers shall be subjected to a load in accordance with the values specified in the technical specification, until thermal stabilization.

The temperature and the pressure in the circuit breakers test chamber shall be stabilized, and maintained at the values specified in the technical specification.

NOTE The temperature shall be measured at the lower and the upper level of the test chamber, and the difference shall be ≤ 10 °C maximum.

The tolerance for pressure shall be ± 3 %.

The circuit breakers shall be subjected to the vibration test according to 3.2 in EN 3841-506, at the values specified in the technical specification.

3.3 Requirement

Requirements in accordance with technical specification and product standard.