



**SLOVENSKI STANDARD**  
**SIST EN 3841-401:2005**

**01-april-2005**

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**Aeronavtika - Odklopniki - Preskusne metode - 401. del: Pesek in prah**

Aerospace series - Circuit breakers - Test methods - Part 401: Sand and dust

Luft- und Raumfahrt - Schutzschalter - Prüfverfahren - Teil 401: Sand und Staub

**iTeh STANDARD PREVIEW**

Série aérospatiale - Disjoncteurs - Méthodes d'essais - Partie 401 : Sable et poussières

**Ta slovenski standard je istoveten z: EN 3841-401:2004**

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**ICS:**

49.060

Štejni odklopniki in sistemski opremlitveni deli za letalske električne naprave in sisteme

Aerospace electric equipment and systems

**SIST EN 3841-401:2005**

**en**

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EUROPEAN STANDARD

**EN 3841-401**

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2004

ICS 49.060

English version

**Aerospace series - Circuit breakers - Test methods - Part 401:  
Sand and dust**Série aérospatiale - Disjoncteurs - Méthodes d'essais -  
Partie 401 : Sable et poussièresLuft- und Raumfahrt - Schutzschalter - Prüfverfahren - Teil  
401: Sand und Staub

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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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 3841-401:2004) 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 3841-401:2004 (E)****1 Scope**

This standard specifies a method of verifying the ability of circuit breakers to withstand sand and dust.

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 Mounting**

The circuit breakers shall be mounted on a support in the test chamber so that they are completely exposed to the air flow.

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**3.2 Procedure**

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The circuit breakers (at no load) shall be in the ON position for the first and in the OFF position for the second cycle.

They shall be subjected to the sand and dust test according to test procedure 1.7 of ISO 7137.

The test shall be carried out exposing all six surfaces of the circuit breakers to the sand stream, except that the test duration is fixed for 2 h for each surface.

**3.3 Requirement**

Requirements in accordance with technical specification and product standard.