SLOVENSKI STANDARD
SIST EN 3841-303:2005

01-april-2005

Aeronavtika - Odklopniki - Preskusne metode - 303. del: Dielektriļ na trdnost

Aerospace series - Circuit breakers - Test methods - Part 303: Dielectric strength

Luft- und Raumfahrt - Schutzschalter - Prüfverfahren - Teil 303: Spannungsfestigkeit

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Série aérospatiale - Disjoncteurs - Méthodes d'essais - Partie 303 : Rigidité diélectrique

Ta slovenski standard je istoveten z: EN 3841-303:2004

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ICS:

49.060	Letalska in vesoljska elektriļ na oprema in sistemi	Aerospace electric equipment and systems

SIST EN 3841-303:2005 **en**

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EUROPEAN STANDARD

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EUROPÄISCHE NORM

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English version

Aerospace series - Circuit breakers - Test methods - Part 303: Dielectric strength

Série aérospatiale - Disjoncteurs - Méthodes d'essais - Partie 303 : Rigidité diélectrique

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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.

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Foreword

This document (EN 3841-303:2004) 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 of verifying the dielectric strength 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*

3 Method

3.1 Procedure

The tests shall be taken after stabilization at environmental conditions specified in EN 3841-100.

The a.c. test voltage (50 Hz) shall be applied progressively with a maximum rate of increase of 250 V/s.

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Measurements shall be taken in the closed and open positions between all the points as indicated below according to the values defined in the product standard.

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When these voltages have been reached, they shall be maintained for 1 min. The circuit breakers shall be monitored for leakage current and possible breakdown.

Measuring points:

Measurements shall be taken with the circuit breakers in the “on” setting (closed position):

— between the terminals of each individual pole and all other connections including signal contacts;

— between all connections including signal contacts and earth (mounting).

Measurements shall be taken with the circuit breakers in the “off” setting (open position):

— between each connection and all other connections including signal contacts;

— between all connections including signal contacts and earth.

3.2 Requirement

For all admissible temperatures at ground and max. altitude, the values recorded shall meet the requirements of the product standard.

There shall be no leakage current ≥ 1 mA, breakdown or defect.