SLOVENSKI STANDARD
SIST EN 3841-302:2005

01-april-2005

Aeronavtika - Odklopniki - Preskusne metode - 302. del: Izolacijska upornost

Aerospace series - Circuit breakers - Test methods - Part 302: Insulation resistance

Luft- und Raumfahrt - Schutzschalter - Prüfverfahren - Teil 302: Isolationswiderstand

Série aérospatiale - Disjoncteurs - Méthodes d'essais - Partie 302 : Résistance d'isolement

Ta slovenski standard je istoveten z: **EN 3841-302:2004**

ICS:

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

SIST EN 3841-302:2005 **en**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 3841-302

December 2004

ICS 49.060

English version

Aerospace series - Circuit breakers - Test methods - Part 302: Insulation resistance

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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Foreword

This document (EN 3841-302:2004) 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of an identical text or by endorsement, at the latest by June 2005, and conflicting national standards shall be withdrawn at the latest by June 2005.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 the United Kingdom.

1 Scope

This standard specifies a method of verifying the insulation resistance 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

Insulation resistance is measured at a test voltage of 500 V d.c.. The reading shall be taken after stabilization of temperature and pressure.

Measurements shall be taken in the closed and open position between all the points as indicated below according to the values defined in the technical specification.

Measuring points:

Measurements are 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 are 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 level, the values recorded shall meet the requirements of the technical specification.