



**SLOVENSKI STANDARD
SIST EN 2349-302:2009**

01-maj-2009

**Aeronavtika - Zahteve in preskusni postopki za releje in kontaktorje - 302. del:
Izolacijska upornost**

Aerospace series - Requirements and test procedures for relays and contactors - Part 302: Insulation resistance

Luft- und Raumfahrt - Anforderungen und Prüfverfahren für Relais und Schaltschütze - Teil 302: Isolationswiderstand

Série aérospatiale - Exigences et méthodes d'essais des relais et contacteurs - Partie 302 : La résistance d'isolément

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ICS:

49.060 Štejni sistemski in električni opremljeni sistemi za letalstvo in vesoljske sisteme
Aerospace electric equipment and systems

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EUROPEAN STANDARD
NORME EUROPÉENNE
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EN 2349-302

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ICS 49.060

English Version

Aerospace series - Requirements and test procedures for relays and contactors - Part 302: Insulation resistance

Série aérospatiale - Exigences et méthodes d'essais des
relais et contacteurs - Partie 302 : La résistance
d'isolément

Luft- und Raumfahrt - Anforderungen und Prüfverfahren für
Relais und Schaltschütze - Teil 302: Isolationswiderstand

This European Standard was approved by CEN on 10 May 2006.

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, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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Foreword

This document (EN 2349-302:2006) has been prepared by the AeroSpace and Defence Industries Association of Europe - Standardization (ASD-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 ASD, 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 April 2007, and conflicting national standards shall be withdrawn at the latest by April 2007.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

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, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

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EN 2349-302:2006 (E)**1 Scope**

This standard specifies a method for testing the insulation resistance of relays and contactors. It shall be used together with EN 2349-100.

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 2349-100, *Aerospace series — Requirements and test procedures for relays and contactors — Part 100: General requirements*¹⁾

ISO 2678, *Environmental tests for aircraft equipment — Insulation resistance and high voltage tests for electrical equipment*

3 Test procedure

3.1 The insulation resistance shall be measured between all terminals which are insulated from each other and also between all terminals and the housing.

3.2 The test shall be performed both with the relay or contactor energized and de-energized.

3.3 The test shall be performed in accordance with ISO 2678.

3.4 The test voltage shall be 500 V d.c.

3.5 The specified insulation resistance shall be reached within 2 min.

3.6 During the test in the de-energized state the coil terminals shall be connected to each other.

4 Test criteria

The insulation resistance of the relay or contactor shall be greater than the values specified in the product standard.

¹⁾ In preparation at the date of publication of this standard.