



SLOVENSKI STANDARD SIST EN 2349-307:2009

01-maj-2009

**Aeronavtika - Zahteve in preskusni postopki za releje in kontaktorje - 307. del:
Padec napetosti pri kontaktu**

Aerospace series - Requirements and test procedures for relays and contactors - Part
307: Contact voltage drop

Luft- und Raumfahrt - Anforderungen und Prüfverfahren für Relais und Schaltschütze -
Teil 307: Kontaktspannungsabfall

Série aérospatiale - Exigences et méthodes d'essais des relais et contacteurs - Partie
307 : Chute de tension au contact

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Ta slovenski standard je istoveten z: EN 2349-307:2006

ICS:

49.060

Številni sistemi za
električno opremo in sisteme

Aerospace electric
equipment and systems

SIST EN 2349-307:2009

en,de

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 2349-307

October 2006

ICS 49.060

English Version

**Aerospace series - Requirements and test procedures for relays
and contactors - Part 307: Contact voltage drop**

Série aérospatiale - Exigences et méthodes d'essais des
relais et contacteurs - Partie 307 : Chute de tension au
contact

Luft- und Raumfahrt - Anforderungen und Prüfverfahren für
Relais und Schaltschütze - Teil 307: Kontaktspannungsfall

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.

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Foreword

This document (EN 2349-307:2006) 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 2349-307:2006 (E)**1 Scope**

This standard specifies a method for testing the contact voltage drop 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⁾

3 Test procedures

3.1 The contact voltage drop shall be measured both on normally-open and normally-closed contacts.

3.2 For qualification tests of relays or contactors with plug-socket holders, the voltage drop of the plug-socket holder shall be taken into account in accordance with the product standard.

3.3 For testing in the energized state the rated voltage shall be applied to the coil.

3.4 Contact loading is the rated resistive load for qualification testing.

3.5 The open contact voltage is 6 V d.c. for relays or contactors with ratings of up to 25 A and 28 V d.c. for relays or contactors with ratings over 25 A (d.c. or a.c. voltage is acceptable).

3.6 For batch testing the contact load may be below the rated current, but the voltage drop measured shall be projected for the maximum permissible value at rated current.

3.7 The contacts shall not be switched under load, unless otherwise specified in the product standard.

3.8 The measurement shall be taken between 3 s and 10 s after connection of the test current.

3.9 The number of measurements shall be as follows:

- for batch acceptance and acceptance inspection: 1;
- for qualification testing: 10.

4 Test criteria

The contact voltage drop shall not exceed the value specified in the product standard.

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