



SLOVENSKI STANDARD
SIST EN 2349-310:2009
01-maj-2009

**Aeronavtika - Zahteve in preskusni postopki za releje in kontaktorje - 310. del:
Kapaciteta preklopa**

Aerospace series - Requirements and test procedures for relays and contactors - Part
310: Rupture

Luft- und Raumfahrt - Anforderungen und Prüfverfahren für Relais und Schaltschütze -
Teil 310: Schaltvermögen

Série aérospatiale - Exigences et méthodes d'essais des relais et contacteurs - Partie
310 : Rupture

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49.060 Štejni sistemski inženiring in oprema za letalstvo in vesolje
Aerospace electric equipment and systems

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EUROPEAN STANDARD
NORME EUROPÉENNE
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EN 2349-310

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English Version

Aerospace series - Requirements and test procedures for relays and contactors - Part 310: Rupture

Série aérospatiale - Exigences et méthodes d'essais des
relais et contacteurs - Partie 310 : Rupture

Luft- und Raumfahrt - Anforderungen und Prüfverfahren für
Relais und Schaltschütze - Teil 310: Schaltvermögen

This European Standard was approved by CEN on 19 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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EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

This document (EN 2349-310:2006) 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.

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 2349-310:2006 (E)**1 Scope**

This standard specifies a method for testing the rupture characteristics 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 Mounting method

The relay or contactor shall be wired in accordance with EN 2349-100 and the rated contact load. The test sample shall be mounted in still air.

4 Test procedures

4.1 Each operating and resting contact shall be able to connect, conduct and disconnect the loads specified in the product standards.

4.2 During the test, the housing of the relay or contactor shall be connected to the d.c. earth or the neutral lead of the electrical installation by a fuse with a rating of 5 % of the rated resistive contact current, but not greater than 3 A.

4.3 One sample shall be tested for each load. Operating and normally closed contacts shall be tested separately. For tests with multi-phase a.c. current, the load shall be applied to adjacent contacts.

4.4 The coil of the relay or contactor shall be energized at the rated voltage during the test.

4.5 The contacts shall be monitored during connection, conduction and disconnection.

4.6 A functional defect shall constitute a failure. A voltage drop over 10 % of the open contact voltage shall constitute a failure. Blowing of the fuse shall constitute a failure.

4.7 Test cycle:

— connection time: $(0,2 \pm 0,05)$ s;

— disconnection time: (30 ± 1) s.

Number of test cycles: see product standard.

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

4.8 The temperature increase shall be measured for:

- plug-in relays, on the case;
- screw-type connections: on the connector bolt.

5 Test criteria

- No electrical or mechanical failure;
- no sticking or seizing of contacts;
- no blown fuse;
- no temperature increase above 75 °C.

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