
Aeronavtika - Zahteve in preskusni postopki za releje in kontaktorje - 316. del:
Mehanska življenjska doba (pri zmanjšani obremenitvi)

Aerospace series - Requirements and test procedures for relays and contactors - Part
316: Mechanical life (Endurance at reduced load)

Luft- und Raumfahrt - Anforderungen und Prüfverfahren für Relais und Schaltschütze -
Teil 316: Mechanische Lebensdauer (mit reduzierter Last)

Série aérospatiale - Exigences et méthodes d'essais des relais et contacteurs - Partie
316 : Endurance mécanique (Durée de vie sous charge réduite)

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Ta slovenski standard je istoveten z: EN 2349-316:2006

ICS:

49.060

Letalska in vesoljska
električna oprema in sistemi

Aerospace electric
equipment and systems

SIST EN 2349-316:2009

en,de

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 2349-316

October 2006

ICS 49.060

English Version

**Aerospace series - Requirements and test procedures for relays
and contactors - Part 316: Mechanical life (Endurance at
reduced load)**

Série aérospatiale - Exigences et méthodes d'essais des
relais et contacteurs - Partie 316 : Endurance mécanique
(Durée de vie sous charge réduite)

Luft- und Raumfahrt - Anforderungen und Prüfverfahren für
alle Relais und Schaltschütze - Teil 316: Mechanische
Lebensdauer (mit reduzierter Last)

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.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

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Foreword

This document (EN 2349-316:2006) 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 2349-316:2006 (E)**1 Scope**

This standard specifies a method for determining the mechanical service life (endurance at reduced load) 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⁾

EN 2349-301, *Aerospace series — Requirements and test procedures for relays and contactors — Part 301: Pick-up and drop-out voltage*

3 Method**3.1 Mounting**

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

3.2 Test procedures

Each normally closed and normally open contact shall be loaded with 25 % of the resistive load as specified in the product standard. The open contact voltage shall conform to the value specified in the product standard.

During this test the coil of the relay or contactor shall be energized at the rated voltage.

The contacts shall be monitored for opening and closing in the sequence specified.

Test cycle:

- connection time: $(1,5 \pm 1)$ s;
- disconnection time: $(1,5 \pm 1)$ s.

Number of cycles: see product standard.

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

4 Requirements

A voltage drop greater than 10 % of the open contact voltage shall constitute a failure. In addition:

- the test sample shall withstand the number of cycles without malfunction;
- there shall be no mechanical damage;
- there shall be no sticking or seizing of contacts.

Test in accordance with EN 2349-301: Pick-up and drop-out voltage.

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