



SLOVENSKI STANDARD
SIST EN 2349-301:2009

01-maj-2009

**Aeronavtika - Zahteve in preskusni postopki za releje in kontaktorje - 301. del:
Napetost pri vklopu in ob izpadu**

Aerospace series - Requirements and test procedures for relays and contactors - Part
301: Pick-up and drop-out voltage

Luft- und Raumfahrt - Anforderungen und Prüfverfahren für Relais und Schaltschütze -
Teil 301: Ansprechspannung und Rückfallspannung

Série aérospatiale - Exigences et méthodes d'essais des relais et contacteurs - Partie
301 : Tension de collage et de décollage

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Ta slovenski standard je istoveten z: EN 2349-301:2006

ICS:

49.060 Štejni sistemski napajalnik in oprema za letalstvo
Aerospace electric
^| \ d ā } æ | ! ^ { æ Å ã c ^ { ã equipment and systems

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 2349-301

October 2006

ICS 49.060

English Version

Aerospace series - Requirements and test procedures for relays and contactors - Part 301: Pick-up and drop-out voltage

Série aérospatiale - Exigences et méthodes d'essais des
relais et contacteurs - Partie 301 : Tension de collage et de
décollage

Luft- und Raumfahrt - Anforderungen und Prüfverfahren für
Relais und Schaltschütze - Teil 301: Ansprechspannung
und Rückfallspannung

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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Contents

Page

Foreword.....	3
1 Scope	4
2 Normative references	4
3 Pick-up (actuating) voltage	4
4 Drop-out (release) voltage	4

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Foreword

This document (EN 2349-301:2006) has been prepared by the AeroSpace and Defense 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 2349-301:2006 (E)**1 Scope**

This standard specifies a method for testing the pick-up voltage and drop-out voltage 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 Pick-up (actuating) voltage**3.1 Mounting method**

The relay or contactor shall be wired in accordance with EN 2349-100.

3.2 Test procedure

The coil shall be left in a de-energized state for 30 min before starting the test.

The minimum rate of voltage increase and the time to energize the coil, applicable to the device under test, shall be determined to prevent overheating of the coil. The rated voltage shall be applied to the coil, then reduced to zero, and gradually increased until the relay or contactor picks up.

The contacts shall not change their switching position when the voltage is increased from the pick-up voltage to the maximum operating voltage.

An indicating device shall be used to determine the position of the contacts.

For qualification tests, the relay or contactor shall be tested in each of two directions along three axes which are perpendicular to each other (i.e. six degrees of freedom).

3.3 Test criteria

The relay or contactor shall pick up at the rated voltage specified in the product standard.

4 Drop-out (release) voltage**4.1 Mounting method**

The relay or contactor shall be wired as described in EN 2349-100.

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

4.2 Test procedure

The coil shall be left in a de-energized condition for 30 min before starting the test.

The rated voltage shall be applied to the coil and then gradually reduced until the relay or contactor drops out.

The contacts shall not change their switching position when the voltage is reduced from the drop-out voltage to zero.

An indicating device shall be used to determine the position of the contacts.

For qualification tests the switching device shall be tested in each of the three axes which are perpendicular to each other.

4.3 Test criteria

The relay or contactor shall drop-out within the voltage range specified in the product standard.

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