



SLOVENSKI STANDARD
SIST EN 2349-309:2009
01-maj-2009

**Aeronavtika - Zahteve in preskusni postopki za releje in kontaktorje - 309. del:
Napetostna motnja na izhodu**

Aerospace series - Requirements and test procedures for relays and contactors - Part
309: Exported spikes

Luft- und Raumfahrt - Anforderungen und Prüfverfahren für Relais und Schaltschütze -
Teil 309: Ausgehende Störspannung

Série aérospatiale - Exigences et méthodes d'essais des relais et contacteurs - Partie
309 : Surtension générée par la bobine

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ICS:

49.060 Štejni in električni opremljeni sistemi za letalstvo in vesolje
Aerospace electric equipment and systems

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 2349-309

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ICS 49.060

English Version

Aerospace series - Requirements and test procedures for relays and contactors - Part 309: Exported spikes

Série aérospatiale - Exigences et méthodes d'essais des
relais et contacteurs - Partie 309 : Surtension générée par
la bobine

Luft- und Raumfahrt - Anforderungen und Prüfverfahren für
Relais und Schaltschütze - Teil 309: Ausgehende
Störspannung

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 2349-309:2006) 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 2349-309:2006 (E)**1 Scope**

This standard specifies a method for testing the outgoing interference voltage (exported spikes) of internally suppressed relays and contactors only. The relay or contactor shall be subjected to tests to determine that outgoing interference voltages, which are produced by de-energizing the coil of the switching device, do not exceed the values specified in the product standard. 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 Before carrying out the interference voltage tests, the maximum coil voltage shall be applied with reversed polarity to the coil terminals for at least 2 s, to ensure that the inverse voltage of the coil circuit is greater than the maximum coil voltage and correctly polarized.

3.2 The number of tests shall be as follows:

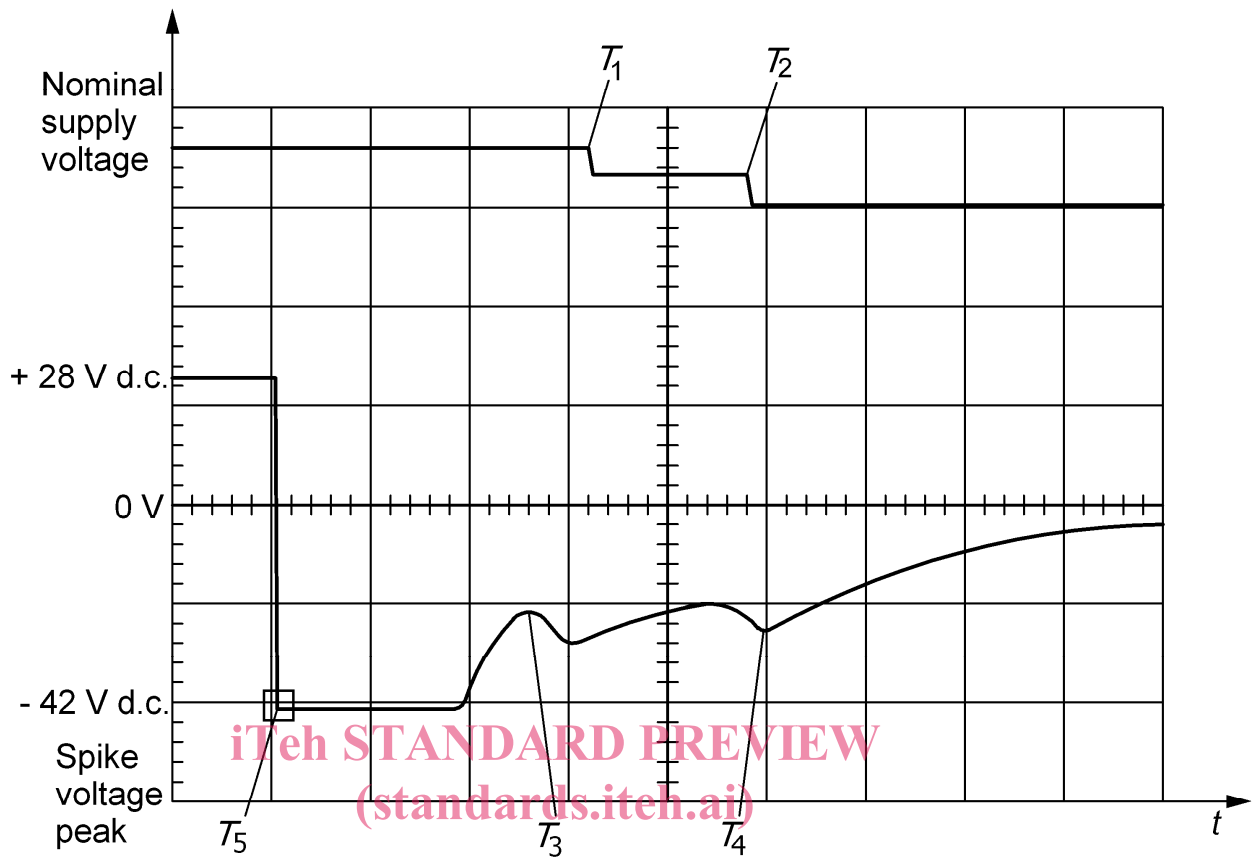
— for acceptance testing: 1;

— for qualification testing: 3 <https://standards.iteh.ai/catalog/standards/sist/ae47c4ea-5bfe-4378-9a0c-7199f607abb6/sist-en-2349-309-2009>

3.3 An oscilloscope shall be required for type testing.

See Figure 1.

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



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Key

- T_1 opening of NC contacts
- T_2 closing of NO contacts
- T_3 start of armature movement
- T_4 end of armature movement
- T_5 switch opens, spike voltage peak

Figure 1 — Typical curve of outgoing interference voltage

4 Test criteria

The outgoing interference voltage shall not exceed the value specified in the product standard.