



SLOVENSKI STANDARD  
SIST EN 2349-305:2009

01-maj-2009

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Aerospace series - Requirements and test procedures for relays and contactors - Part 305: Bounce time

Luft- und Raumfahrt - Anforderungen und Prüfverfahren für Relais und Schaltschütze - Teil 305: Prellzeit

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Série aérospatiale - Exigences et méthodes d'essais des relais et contacteurs - Partie 305 : Temps de rebondissement

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Ta slovenski standard je istoveten z: **EN 2349-305:2006**

**ICS:**

49.060

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 2349-305**

October 2006

ICS 49.060

English Version

## Aerospace series - Requirements and test procedures for relays and contactors - Part 305: Bounce time

Série aérospatiale - Exigences et méthodes d'essais des  
relais et contacteurs - Partie 305 : Temps de  
rebondissement

Luft- und Raumfahrt - Anforderungen und Prüfverfahren für  
Relais und Schaltschütze - Teil 305: Prellzeit

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 2349-305:2006) 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 2349-305:2006 (E)****1 Scope**

This standard specifies a method for testing the bounce time 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*<sup>1)</sup>

**3 Test procedures**

**3.1** Bounce time shall be measured, both on the normally-open and normally-closed contacts, by applying the rated voltage on and off.

**3.2** The bounce time includes both the initial bounce, when the contacts close or open for the first time, and all additional bounces, see Figures 2 and 3.

**3.3** The contact load shall be between 5 mA and 100 mA. The open contact voltage shall be 6 V d.c. max. for relays or contactors with ratings of up to and including 25 A, and 28 V d.c. max. for relays or contactors with ratings above 25 A.

**3.4** For qualification tests, five measurements shall be taken and recorded.

**3.5** Figure 1 shows a typical test circuit.

**3.6** The test shall be performed in such a way that the records cover all occurrences of bounce.

**4 Test criteria**

The relay or contactor shall not exceed the bounce times specified in the product standard.

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<sup>1)</sup> In preparation at the date of publication of this standard.

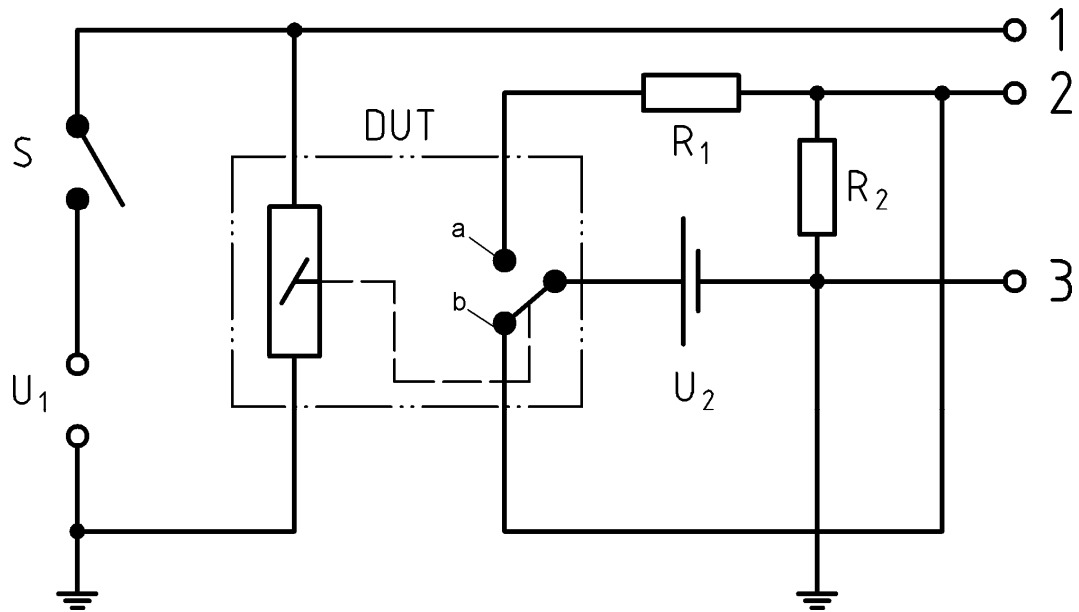


Figure 1 — Test circuit for the determination of the operate, release and bounce times

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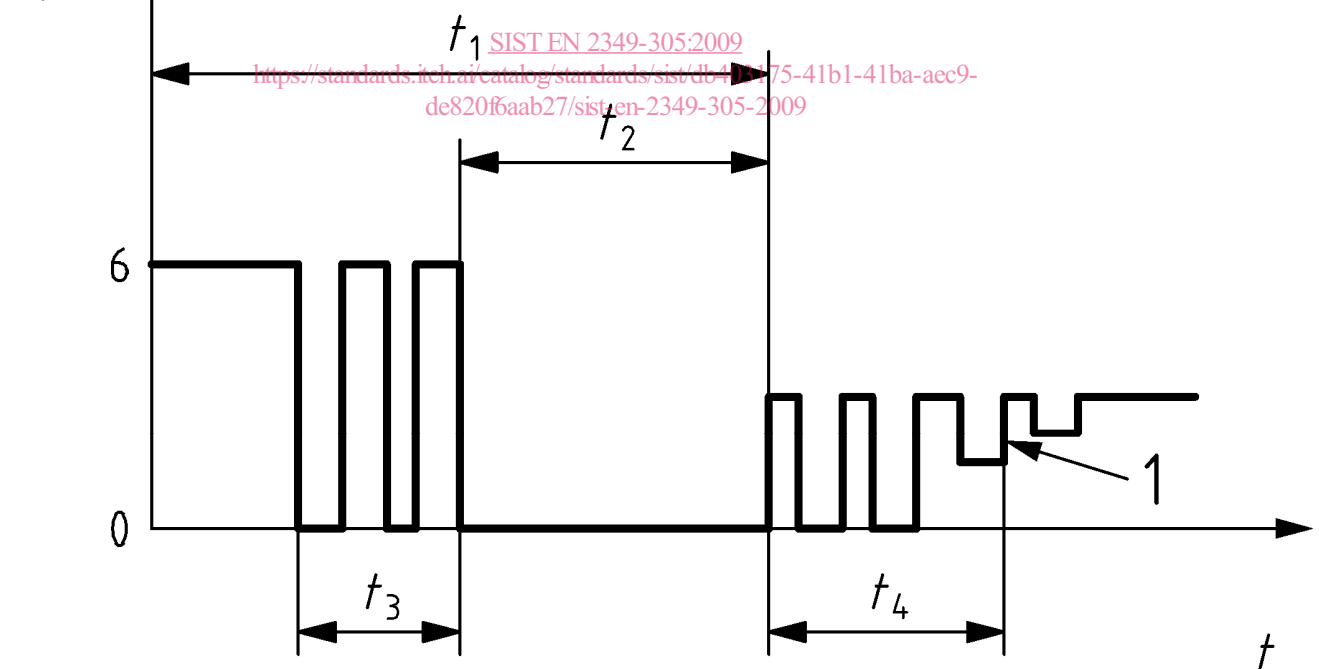


Figure 2 — Switch closure at  $t = 0$ , Operate time characteristics

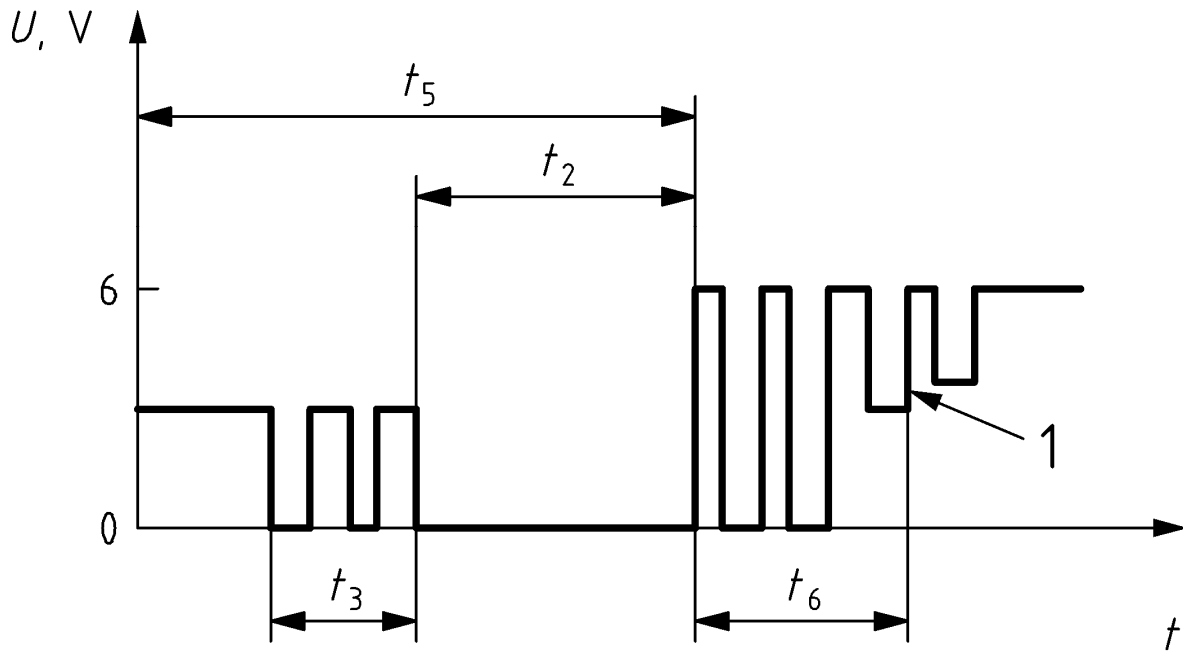


Figure 3 — Switch opening at  $t = 0$ , Release time characteristics

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