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**Aeronautika - Zahteve in preskusni postopki za releje in kontaktorje - 317. del:  
Življenska doba tuljave v stikalnih napravah**

Aerospace series - Requirements and test procedures for relays and contactors - Part 317: Service life of coil switching device

Luft- und Raumfahrt - Anforderungen und Prüfverfahren für Relais und Schaltschütze -  
Teil 317: Lebensdauer der Spule des Schaltgerätes

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Série aérospatiale - Exigences et méthodes d'essais des relais et contacteurs - Partie  
317 : Durée de vie bobine

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**Ta slovenski standard je istoveten z: EN 2349-317:2006**

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**ICS:**

49.060 Ščetniki in obvezni elementi za električno napravo in sistem Aerospace electric  
^|^\dā} a{] |^{\ a{ Áa{c{ a{ equipment and systems

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Aerospace series - Requirements and test procedures for relays  
and contactors - Part 317: Service life of coil switching device

Série aérospatiale - Exigences et méthodes d'essais des  
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Spule des Schaltgerätes

This European Standard was approved by CEN on 19 May 2006.

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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 2349-317:2006) 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 2349-317:2006 (E)

### 1 Scope

This standard specifies a method for determining the service life of coil switching devices in 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>

EN 2349-201, *Aerospace series — Requirements and test procedures for relays and contactors — Part 201: Visual inspection*

EN 2349-202, *Aerospace series — Requirements and test procedures for relays and contactors — Part 202: Examination of dimensions and mass*

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

EN 2349-308, *Aerospace series — Requirements and test procedures for relays and contactors — Part 308: Coil current*  
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EN 2349-309, *Aerospace series — Requirements and test procedures for relays and contactors — Part 309: Exported spikes*

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### 3 Method

#### 3.1 Mounting

The relay or contactor shall be wired in accordance with EN 2349-100 and placed in a heating cabinet. The coil of the relay or contactor shall be connected through a switch to the power source.

#### 3.2 Test procedures

**3.2.1** The temperature of the heating cabinet shall be brought to the level specified in the product standard.

**3.2.2** The relay shall be energized with the maximum rated voltage specified in the product standard.

**3.2.3** Test cycle:

- coil energized: 3 h;
- coil de-energized: 0,5 h.

Number of cycles: 200

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

**3.2.4** The coil voltage shall be switched off and the temperature of the heating cabinet reduced to the minimum temperature specified in the product standard.

**3.2.5** The relay shall be energized with the maximum rated voltage specified in the product standard.

**3.2.6** Test cycle:

- coil energized: 3 h;
- coil de-energized: 0,5 h.

Number of cycles: 100

**3.2.7** On completion of the tests the power shall be switched off and the test samples removed from the heating cabinet.

## 4 Requirements

Test in accordance with EN 2349-201, EN 2349-202, EN 2349-301, EN 2349-308 and EN 2349-309.

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