SLOVENSKI STANDARD
SIST EN 2349-306:2009

01-maj-2009

Aeronavtika - Zahteve in preskusni postopki za releje in kontaktorje - 306. del: Preobremenitev pri enosmernem in izmenič nem toku

Aerospace series - Requirements and test procedures for relays and contactors - Part 306: Overload d.c. and a.c.

Luft- und Raumfahrt - Anforderungen und Prüfverfahren für Relais und Schaltschütze - Teil 306: Überlast bei Gleich- und Wechselstrom

Série aérospatiale - Exigences et méthodes d'essais des relais et contacteurs - Partie 306 : Surcharges courant continu et alternatif

Ta slovenski standard je istoveten z: **EN 2349-306:2006**

ICS:

49.060	Letalska in vesoljska električ na oprema in sistemi	Aerospace electric equipment and systems

SIST EN 2349-306:2009 **en,de**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 2349-306

October 2006

ICS 49.060

English Version

Aerospace series - Requirements and test procedures for relays and contactors - Part 306: Overload d.c. and a.c.

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Ref. No. EN 2349-306:2006: E

Contents

Page

Foreword 3
1 Scope 4
2 Normative references 4
3 Mounting method 4
4 Test procedures 4
5 Test criteria 5
6 Verification test 5

Foreword

This document (EN 2349-306:2006) 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of an identical text or by endorsement, at the latest by April 2007, and conflicting national standards shall be withdrawn at the latest by April 2007.

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1 Scope

This standard specifies a method for testing the overload d.c. and a.c. 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 2349-303, *Aerospace series — Requirements and test procedures for relays and contactors — Part 303: Dielectric strength*

3 Mounting method

The switching device shall be wired in accordance with EN 2349-100. The rated overload current and the open circuit voltage shall be applied in accordance with product standard. The test sample shall be mounted in still air.

4 Test procedures

4.1 Each operating and resting contact shall be able to connect, conduct and disconnect the overload in accordance with the product standard. The operating and normally closed contacts shall be tested separately.

4.2 The coil of the switching device shall be energized with the rated voltage during the test. The contacts shall be monitored during connection, conduction and disconnection. A functional defect of the test sample shall constitute a failure. A voltage drop across closed contacts over 10 % of the supply voltage shall constitute a failure. During the test, the housing of the relay or contactor shall be connected to the d.c. earth or neutral wire of the electrical installation by a fuse with a rating of 5 % of the rated resistive contact current, but not greater than 3 A.

4.3 Blowing of the fuse shall constitute a failure.

4.4 Test cycle:

— connection time: (0,2 ± 0,05) s for a.c.;
(0,5 ± 0,05) s for d.c.

— disconnection time: (20 ± 1) s.

Number of switching cycles: see product standard.

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

4.5 The temperature increase shall be measured for:

— plug-in relays: on the housing;

— screw-type connections: on the connector bolt.

5 Test criteria

There shall be:

— no electrical or mechanical failure;

— no sticking or seizing of contacts;

— no blowing of the fuse;

— no temperature increase greater than 75 °C.

6 Verification test

Test in accordance with EN 2349-303.