SLOVENSKI STANDARD
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Aeronavtika - Zahteve in preskusni postopki za releje in kontaktorje - 303. del: Dielektriļ na trdnost

Aerospace series - Requirements and test procedures for relays and contactors - Part 303: Dielectric strength

Luft- und Raumfahrt - Anforderungen und Prüfverfahren für Relais und Schaltschütze - Teil 303: Spannungsfestigkeit

Série aérospatiale - Exigences et méthodes d'essais des relais et contacteurs - Partie 303 : Rigidité diélectrique

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EUROPEAN COMMITTEE FOR STANDARDIZATION
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Management Centre: rue de Stassart, 36 B-1050 Brussels

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Foreword

This document (EN 2349-303:2006) 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of an identical text or by endorsement, at the latest by April 2007, and conflicting national standards shall be withdrawn at the latest by April 2007.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 dielectric strength 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)]

ISO 2678, *Environmental tests for aircraft equipment — Insulation resistance and high voltage tests for electrical equipment*

3 Test procedures

3.1 The test voltage shall be applied between all terminals which are insulated from each other and between all terminals and the housing.

3.2 The test shall be performed both with the relay or contactor de-energized and energized.

3.3 The test shall be performed in accordance with ISO 2678.

3.4 The test duration shall be as follows:

— for batch acceptance and acceptance testing: 2 s to 5 s;

— for certification testing: 1 min.

3.5 During the test in the de-energized state the coil terminals shall be connected to each other.

4 Test criteria

The dielectric strength of the relay or contactors shall conform to the values specified in the product standards.

The relay or contactor shall not be damaged during the test.

The leakage current shall not exceed 1 mA.

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