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**AEROSPACE SERIES - CIRCUIT BREAKERS -
TEST METHODS - PART 406: FLAMMABILITY**

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English version

**Aerospace series - Circuit breakers - Test methods - Part 406:
Flammability**

Série aérospatiale - Disjoncteurs - Méthodes d'essais -
Partie 406 : Ininflammabilité

Luft- und Raumfahrt - Schutzschalter - Prüfverfahren - Teil
406: Nichtentflammbarkeit

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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.

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Foreword

This document (EN 3841-406:2004) has been prepared by the European Association of Aerospace Manufacturers - Standardization (AECMA-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 AECMA, 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of an identical text or by endorsement, at the latest by June 2005, and conflicting national standards shall be withdrawn at the latest by June 2005.

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EN 3841-406:2004 (E)

1 Scope

This standard specifies a method of verifying the flammability of plastic (synthetic) materials used in the housing, insulator base and any parts exposed to arcs or glowing elements of circuit breakers.

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.

IEC 60695-2-10, *Fire Hazard Testing – Part 2-10: Glowing/Hot-Wire Based Test Methods – Glow/Wire Apparatus and Common Test Procedure*

3 Method

The test apparatus is described in IEC 60695-2-10, clause 4 and Figure 2. The glow-wire test shall be carried out in accordance with IEC 60695-2-10 and the following requirements:

- the tested parts shall be fitted with the tip of the glow-wire positioned at a distance of (200 ± 5) mm above the white board (approximately 10 mm thick and covered with a single layer of tissue paper);
- the test shall be carried out on part supporting current carrying parts (main and signal) and parts of the housing in contact with electric arcs;
- temperature of the tip of the glow-wire: (960 ± 15) °C;
- duration of application: (30 ± 1) s.

4 Requirement

The test shall be considered to be satisfactory if a flame or glowing of the tested part is extinguished within 30 s of removing the glow-wire and if there is no ignition of the tissue paper.

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