



SLOVENSKI STANDARD
SIST EN 3841-304:2005

01-april-2005

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Aerospace series - Circuit breakers - Test methods - Part 304: Tripping points

Luft- und Raumfahrt - Schutzschalter - Prüfverfahren - Teil 304: Auslösegrenzen

Série aérospatiale - Disjoncteurs - Méthodes d'essais - Partie 304 : Limites de déclenchement

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Ta slovenski standard je istoveten z: **EN 3841-304:2004**

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ICS:

49.060 Ščē\ æš Á^• [|b\ æ Aerospace electric
^|\ dā} æ] !^ { æš Á ã c^ { ã equipment and systems

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EUROPEAN STANDARD

EN 3841-304

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2004

ICS 49.060

English version

Aerospace series - Circuit breakers - Test methods - Part 304: Tripping points

Série aérospatiale - Disjoncteurs - Méthodes d'essais -
Partie 304: Limites de déclenchement

Luft- und Raumfahrt - Schutzschalter - Prüfverfahren - Teil
304: Auslösegrenzen

This European Standard was approved by CEN on 10 September 2004.

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, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

This document (EN 3841-304:2004) 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.

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, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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EN 3841-304:2004 (E)**1 Scope**

This standard specifies a method of verifying the tripping points of circuit breakers.

It shall be used together with EN 3841-100.

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 3841-100, *Aerospace series – Circuit breakers – Test methods – Part 100: General*

3 Method**3.1 General conditions**

The circuit breakers shall be mounted as described in clause 4 of EN 3841-100, in connection with the applicable technical specification. During the test, the current applied to the circuit breakers shall remain constant. The current may be either d.c. or a.c. with frequency indicated in the product standard and resistive load.

Prior to each test, the tripped circuit breakers (with main contacts open) and their connections shall be stabilized to the specified temperature ± 5 °C. [SIST EN 3841-304:2005](https://standards.iteh.ai/catalog/standards/sist/5d19e0-c9d1-4597-8b17-46a01d260b/sist-en-3841-304-2005)

The test shall only be carried out at normal airflow. <https://standards.iteh.ai/catalog/standards/sist/5d19e0-c9d1-4597-8b17-46a01d260b/sist-en-3841-304-2005>

3.2 Tripping points**3.2.1 Minimum tripping point**

The circuit breakers shall be subjected to the current specified in the product standard.

The minimum tripping time shall be in accordance with the product standard.

The circuit breakers shall not trip during this period.

The temperature of the terminals shall be measured throughout the test. The temperature increase of the terminals shall not exceed 75 K. For this measurement, thermocouples or other appropriate low conductivity sensors shall be used, placed on a terminal as close as possible to the housing of the circuit breaker.

3.2.2 Maximum tripping point

When subjected to the current specified for the maximum tripping point in the product standard, the circuit breakers shall trip within the specified time.

3.2.3 Overload tripping

The circuit breakers shall be subjected to the currents specified in the product standard and the tripping time shall be measured.

3.2.4 Trip free release

Overload tripping with the actuator button held in the closed position shall be verified in accordance with the conditions specified in the technical specification.

3.2.5 Minimum tripping points at altitude

The circuit breakers shall be placed in a suitable low pressure/temperature chamber and shall be connected to the applicable current source.

The chamber shall be set to the test temperature indicated in the product standard held constant for a minimum of 1 h. Then the chamber shall be brought to the atmospheric pressure corresponding to the altitude specified in the product standard. Under these conditions, the circuit breakers shall be subjected to the current defined in the product standard for the minimum points at altitude and temperature. The test period shall be 1 h.

3.3 Requirements

The tripping points and trip times shall meet the requirements of the product standard.

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