

**Aerospace series – Circuit breakers –
Test methods –
Part 307: Performance with a locked tripping system**

Europastandarden EN 3841-307:2004 gäller som svensk standard. Detta dokument innehåller den officiella engelska versionen av EN 3841-307:2004.

The European Standard EN 3841-307:2004 has the status of a Swedish Standard. This document contains the official English version of EN 3841-307:2004.

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Telefon: 08 - 555 523 10. *Telefax:* 08 - 555 523 11
E-post: sis.sales@sis.se. *Internet:* www.sis.se

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Partie 307 : Comportement avec mécanisme bloqué

Luft- und Raumfahrt - Schutzschalter - Prüfverfahren - Teil
307: Verhalten mit blockiertem Auslösesystem

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.

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

Contents		Page
	Foreword	3
1	Scope	4
2	Normative references	4
3	Method	4
3.1	General conditions	4
3.2	Test mounting	4
3.3	Test circuit	4
3.4	Procedure	6
3.5	Requirement	6

Foreword

This document (EN 3841-307:2004) 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of an identical text or by endorsement, at the latest by June 2005, and conflicting national standards shall be withdrawn at the latest by June 2005.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.

EN 3841-307:2004 (E)**1 Scope**

This standard specifies a method of verifying the performance of circuit breakers with a locked tripping system.

It shall be used together with EN 3841-100.

The test is intended to estimate the consequences of a trip failure in the case of a short-circuit.

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 mechanism shall be locked in order to simulate a welding of the power contacts with no direct action on the bimetal.

For three-pole circuit breakers, only one pole shall be tested, other circuits shall be unloaded.

3.2 Test mounting

The circuit breakers shall be mounted as specified in EN 3841-100, in connection with the applicable technical specification.

3.3 Test circuit

According to Figure 1 with d.c. and a.c., single-pole.

According to Figure 2 with a.c., three-pole.