

**Aerospace series - Circuit breakers,  
single-pole, temperature compensated,  
rated current 1 A to 25 A - Part 005:  
With polarized signal contact - Product  
standard**

Aerospace series - Circuit breakers, single-pole,  
temperature compensated, rated current 1 A to 25 A  
- Part 005: With polarized signal contact - Product  
standard

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 2995-005:2006 sisaldab Euroopa standardi EN 2995-005:2006 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 20.09.2006 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 2995-005:2006 consists of the English text of the European standard EN 2995-005:2006.</p> <p>This document is endorsed on 20.09.2006 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p><b>Käsitlusala:</b></p> <p>This standard specifies the characteristics of single-pole circuit breakers, temperature compensated with a rated current from 1 A to 25 A, used in aircraft on-board circuits at a temperature between – 55 °C and 125 °C and at a maximum altitude of Z = 22 000 m.</p>	<p><b>Scope:</b></p> <p>This standard specifies the characteristics of single-pole circuit breakers, temperature compensated with a rated current from 1 A to 25 A, used in aircraft on-board circuits at a temperature between – 55 °C and 125 °C and at a maximum altitude of Z = 22 000 m.</p>
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**ICS** 49.060

**Võtmesõnad:**

ICS 49.060

English Version

**Aerospace series - Circuit breakers, single-pole, temperature compensated, rated current 1 A to 25 A - Part 005: With polarized signal contact - Product standard**

Série aérospatiale - Disjoncteurs unipolaires compensés en température, intensités nominales 1 A à 25 A - Partie 005 : Avec contact de signalisation polarisé - Norme de produit

Luft- und Raumfahrt - Schutzschalter, einpolig, Temperaturkompensiert, Nennströme von 1 A bis 25 A - Teil 005: Mit polarisiertem Signalkontakt - Produktnorm

This European Standard was approved by CEN on 5 June 2006.

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



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## Foreword

This European Standard (EN 2995-005:2006) has been prepared by the Aerospace and Defence 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 February 2007, and conflicting national standards shall be withdrawn at the latest by February 2007.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

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

## 1 Scope

This standard specifies the characteristics of single-pole circuit breakers, temperature compensated with a rated current from 1 A to 25 A, used in aircraft on-board circuits at a temperature between  $-55^{\circ}\text{C}$  and  $125^{\circ}\text{C}$  and at a maximum altitude of  $Z = 22\,000\text{ m}$ .

These circuit breakers are operated by a push-pull type single push button (actuator), with delayed action "trip-free" tripping with a polarized signal contact which is open when main contacts are closed, and inversely.

They will continue to function up to the short-circuit current.

## 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 2995-001, *Aerospace series – Circuit breakers, single-pole, temperature compensated, rated current 1 A to 25 A – Part 001: Technical specification.*

EN 3155-016, *Aerospace series – Electrical contacts used in elements of connection – Part 016: Contacts, electrical, male, type A, crimp, class S – Product standard.*

EN 3841-305, *Aerospace series – Circuit breakers – Test methods – Part 305: Short-circuit performance.*

EN 6113, *Aerospace series – Circuit breaker, connecting and attachment hardware.*<sup>1)</sup>

TR 6083, *Aerospace series – Cut-outs for installation of electrical components.*<sup>2)</sup>

MIL-I-81969/1A, *Installing and removal tools, connector electrical contact, type III, class 2, composition C.*<sup>3)</sup>

MIL-I-81969/14C, *Installing and removal tools, connector electrical contact, type III, class 2, composition B.*<sup>3)</sup>

MIL-S-19500, *Semiconductor device, diode, silicon, fast recovery.*<sup>3)</sup>

FED-STD-595B, *Colors used in Government Procurement.*

## 3 Dimensions and mass

### 3.1 Dimensional characteristics

The circuit breakers do not have to correspond to the pictorial illustration, only the dimensions given shall be adhered to.

Dimensions are in millimetres.

See Figure 1.

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1) Published as AECMA Prestandard at the date of publication of this standard.

2) Published as AECMA Technical Report at the date of publication of this standard.

3) Published by: Department of Defense (DOD), the Pentagon, Washington D.C. 20301 USA.