

Aerospace series - Circuit breakers, three-pole,
temperature compensated, rated currents 1 A to 25 A -
Part 001: Technical specification

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

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English Version

**Aerospace series - Circuit breakers, three-pole,
temperature compensated, rated currents 1 A to 25 A -
Part 001: Technical specification**

Série aérospatiale - Disjoncteurs tripolaires compensés
en température, intensités nominales 1 A à 25 A -
Partie 001 : Spécification technique

Luft- und Raumfahrt - Schutzschalter, dreipolig,
Temperaturkompensiert, Nennströme von 1 A bis 25 A
- Teil 001: Technische Lieferbedingungen

This European Standard was approved by CEN on 23 July 2023.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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European foreword

This document (EN 2996-001:2023) 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 document has received the approval of the National Associations and the Official Services of the member countries of ASD-STAN, prior to its presentation to CEN.

This document shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by May 2024, and conflicting national standards shall be withdrawn at the latest by May 2024.

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

This document supersedes EN 2996-001:2006.

The main changes with respect to the previous edition are as follows:

- prEN 2996-001 (P3), 05/2005 — Editorial revision of this document: g_n replaced by g -PK for sinusoidal and low frequencies, g_n replaced by Grms for random.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this document: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

1 Scope

This document specifies the three-pole temperature compensated circuit breakers with signal contacts, polarized or not, rated from 1 A to 25 A and used in aircraft on-board circuits. It describes specific environmental, electrical and mechanical characteristics and the stringency of tests to be applied according to test methods of EN 3841-100.

These circuit breakers are intended for use in aircraft with electrical supplies in accordance with EN 2282 (all categories).

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 2083, *Aerospace series — Copper or copper alloy conductors for electrical cables — Product standard*

EN 2282,¹ *Aerospace series — Characteristics of aircraft electrical supplies*

EN 2825, *Aerospace series — Burning behaviour of non-metallic materials under the influence of radiating heat and flames — Determination of smoke density*

EN 2826, *Aerospace series — Burning behaviour of non-metallic materials under the influence of radiating heat and flames — Determination of gas components in the smoke*

EN 3841-*, *Aerospace series — Circuit breakers — Test Methods*

EN 3844-1, *Aerospace series — Flammability of non-metallic materials — Part 1: Small burner test, vertical — Determination of the vertical flame propagation*

TR 6083,² *Aerospace series — Cut-outs for installation of electrical components*

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

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

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 3841-100 apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp/>
- IEC Electropedia: available at <https://www.electropedia.org/>

¹ Published as ASD-STAN Standard at the date of publication of this document by AeroSpace and Defence industries Association of Europe — Standardization (ASD-STAN), <https://www.asd-stan.org/>.

* All parts quoted in this document.

² Published as ASD-STAN Technical Report at the date of publication of this document by AeroSpace and Defence industries Association of Europe — Standardization (ASD-STAN), <https://www.asd-stan.org/>.

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