



SLOVENSKI STANDARD

oSIST prEN 2996-005:2024

01-marec-2024

Aeronavtika - Odklopniki, tripolni, temperaturno kompenzirani, nazivni tok od 1 A do 25 A - 005. del: S polariziranim signalnim kontaktom - Standard za proizvod

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

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

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

Ta slovenski standard je istoveten z: prEN 2996-005

<https://standards.iteh.ai/catalog/standards/sist/c6143f31-4827-4f9a-8f05-e8f8e5946628/osist-pren-2996-005-2024>

ICS:

49.060

Letalska in vesoljska
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Aerospace electric
equipment and systems

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en,fr,de

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

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ICS 49.060

Will supersede EN 2996-005:2006

English Version

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

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

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

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee ASD-STAN.

If this draft becomes a European Standard, 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.

This draft European Standard was established by CEN 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 CEN-CENELEC Management Centre has the same status as the official versions.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

Warning : This document is not a European Standard. It is distributed for review and comments. It is subject to change without notice and shall not be referred to as a European Standard.



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

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European foreword

This document (prEN 2996-005:2024) 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 is currently submitted to the CEN Enquiry.

This document will supersede EN 2996-005:2006.

prEN 2996-005:2024 includes the following significant technical changes with respect to EN 2996-005:2006:

- update of Clause 2 “Normative references”;
- addition to Clause 3 “Terms and definitions”;
- update of Table 1 and Table 6 to add 28 VDC and 26 VAC, 360 Hz to 800 Hz as a nominal voltage.

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prEN 2996-005:2024 (E)

1 Scope

This document specifies the characteristics of three-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 $-55\text{ }^{\circ}\text{C}$ and $125\text{ }^{\circ}\text{C}$ for ratings $\leq 15\text{ A}$ and $-55\text{ }^{\circ}\text{C}$ and $90\text{ }^{\circ}\text{C}$ for ratings $> 15\text{ A}$ and at an altitude of 22 000 m max.

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 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 2996-001:2023, *Aerospace series — Circuit breakers, three-pole, temperature compensated, rated currents 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 3841-305,¹ *Aerospace series — Circuit breakers — Test methods — Part 305: Short-circuit performance*

EN 6113, *Aerospace series — Circuit breaker, connecting and attachment hardware*

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

MIL-S-19500,³ *Semiconductor device, diode, silicon, fast recovery*

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

3 Terms and definitions

No terms and definitions are listed in this document.

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://asd-stan.org/>.

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://asd-stan.org/>.

³ DoD National (US) Mil. Department of Defense <https://www.defense.gov/>.