

STN	Letectvo a kozmonautika Trojpolové ističe, tepelne kompenzované, menovitý prúd od 1 A do 25 A Časť 006: Plochá svorka 6,3 mm a 2,8 mm S polarizovaným signálovým kontaktom Norma na výrobok	STN EN 2996-006 31 1745
------------	--	---

Aerospace series - Circuit breakers, three-poles, temperature compensated, rated currents 1 A to 25 A - Part 006: 6,3 mm and 2,8 mm blade terminal - With polarized signal contact - Product standard

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 03/24

Obsahuje: EN 2996-006:2023

138382

Úrad pre normalizáciu, metrológiu a skúšobníctvo Slovenskej republiky, 2024
Slovenská technická norma a technická normalizačná informácia je chránená zákonom č. 60/2018 Z. z. o technickej normalizácii v znení neskorších predpisov.

EUROPEAN STANDARD

EN 2996-006

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2023

ICS 49.060

English Version

**Aerospace series - Circuit breakers, three-poles,
temperature compensated, rated currents 1 A to 25 A -
Part 006: 6,3 mm and 2,8 mm blade terminal - With
polarized signal contact - Product standard**

Série aérospatiale - Disjoncteurs tripolaires compensés
en température, intensités nominales 1 A à 25 A -
Partie 006 : Borne à lames de 6,3 mm et 2,8 mm avec
contact de signalisation polarisé - Norme de produit

Luft- und Raumfahrt - Schutzschalter, dreipolig,
temperaturkompensiert, Nennströme von 1 A bis 25 A
- Teil 006: Flachsteckverbinder 6,3 mm und 2,8 mm -
Mit polarisiertem - Signalkontakt Produktnorm

This European Standard was approved by CEN on 15 October 2023.

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 CEN-CENELEC Management Centre 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 CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of 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 United Kingdom.



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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN 2996-006:2023 (E)

Contents		Page
European foreword		3
1	Scope	4
2	Normative references	4
3	Terms and definitions	4
4	Dimensions and mass	5
4.1	Dimensional characteristics	5
4.2	Electrical diagram	7
4.3	Mass	8
4.4	Panel mounting	8
5	Characteristics	9
5.1	Material, surface treatment	9
5.2	Mechanical characteristics	9
5.2.1	Fasteners	9
5.2.2	Recommended tightening torque of attaching nut for installation	9
5.2.3	Recommended tightening torque of connection hardware for installation	9
5.2.4	Resistance to vibrations	9
5.2.5	Resistance to shocks	9
5.2.6	Mechanical endurance	9
5.3	Environment characteristics	9
5.3.1	Humidity	9
5.3.2	Corrosion	9
5.3.3	Contaminating liquids	9
5.3.4	Overvoltage caused by lightning	10
5.4	Electrical characteristics	10
5.4.1	Nominal voltage of operational circuits	10
5.4.2	Voltage drop at I_n and low current	10
5.4.3	Minimum and maximum tripping thresholds	11
5.4.4	Overload trip	11
5.4.5	Short-circuit values	12
5.4.6	No-load and load endurance	12
5.4.7	Dielectric rigidity	13
5.4.8	Insulation resistance	13
6	Designation	14
6.1	Product designation	14
6.2	Procurement designation	14
7	Rated current code	14
8	Delivery hardware codes	15
9	Marking	15
10	Technical specification	15
Bibliography		16

European foreword

This document (EN 2996-006:2023) 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 June 2024, and conflicting national standards shall be withdrawn at the latest by June 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.

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.

EN 2996-006:2023 (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 °C and 125 °C for ratings ≤ 15 A and -55 °C to 90 °C for ratings > 15 A and at an altitude of 15 000 m max.

These circuit breakers are operated by a push-pull type single pushbutton (actuator), with delayed action “trip-free” tripping.

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 2282¹, *Aerospace series — Characteristics of aircraft electrical supplies*

EN 2996-001¹, *Aerospace series — Circuit breakers, three-pole, temperature compensated, rated currents 1 A to 25 A — Part 001: Technical specification*

EN 3841-305¹, *Aerospace series — Circuit breakers — Test methods — Part 305: Short-circuit performance*

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

TR 6083², *Aerospace series — Cut-outs for installation of electrical components*

AMS-STD-595, *Colours Used in Government Procurement*

EN IEC 60934:2019, *Circuit Breakers for Equipment (CBE) (IEC 60934:2019)*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN

¹ Published as ASD-STAN Standard at the date of publication of this standard <https://www.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://www.asd-stan.org/>.