
Aeronavtika - Odklopniki, enopolni, temperaturno kompenzirani, za naznačene tokove od 1 A do 25 A - 006. del: Ploski spoji 6,3 mm & 2,8 mm s polariziranim signalnim kontaktom - Standard za proizvod

Aerospace series - Circuit breakers, single-pole, temperature compensated, rated currents 1 A to 25 A - Part 006: 6,3 mm & 2,8 mm blade terminal with polarized signal contact - Product standard

Luft- und Raumfahrt - Schutzschalter, einpolig, temperaturkompensiert, Nennstroöme von 1 A bis 25 A - Teil 006: Flachsteckverbinder 6,3 mm & 2,8 mm mit polarisiertem signalkontakt - Produktnorm

Série aérospatiale - Disjoncteurs unipolaires compensés en températures, intensités nominales 1 A à 25 A - Partie 006 : Raccordement par lame 6,3 mm & 2,8 mm avec contact de signalisation polarisé - Norme de produit

Ta slovenski standard je istoveten z: prEN 2995-006

ICS:

29.120.50	Varovalke in druga nadtokovna zaščita	Fuses and other overcurrent protection devices
49.060	Letalska in vesoljska električna oprema in sistemi	Aerospace electric equipment and systems

oSIST prEN 2995-006:2020

en,fr,de

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

DRAFT
prEN 2995-006

May 2020

ICS 49.060

English Version

**Aerospace series - Circuit breakers, single-pole,
temperature compensated, rated currents 1 A to 25 A -
Part 006: 6,3 mm & 2,8 mm blade terminal with polarized
signal contact - Product standard**

Série aérospatiale - Disjoncteurs unipolaires
compensés en températures, intensités nominales 1 A
à 25 A - Partie 006 : Raccordement par lame 6,3 mm &
2,8 mm avec contact de signalisation polarisé - Norme
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Luft- und Raumfahrt - Schutzschalter, einpolig,
temperaturkompensiert, Nennströme von 1 A bis 25
A - Teil 006: Flachsteckverbinder 6,3 mm & 2,8 mm 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.

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

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

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European foreword

This document (prEN 2995-006:2020) 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 document is currently submitted to the CEN Enquiry.

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prEN 2995-006:2020 (E)**1 Scope**

This document 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 $-55\text{ }^{\circ}\text{C}$ and $125\text{ }^{\circ}\text{C}$ and at an altitude of 15 000 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 2282, *Aerospace series - Characteristics of aircraft electrical supplies*

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

TR 6083, *Aerospace series - Cut-outs for installation of electrical components*¹

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

MIL-PRF-19500, *Performance specification: Semiconductor devices, general specification for*²

IEC 60934:2019, *Circuit Breakers for Equipment (CBE)*
oSIST prEN 2995-006:2020
<https://standards.iteh.ai/catalog/standards/sist/878415ff-a797-401d-8adc-77673b961f11/osist-pren-2995-006-2020>

3 Terms and definitions

No terms and definitions are listed in this document.

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

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

4 Dimensions and mass**4.1 Dimensional characteristics**

The circuit breakers do not have to correspond to the pictorial illustration, only the dimensions given shall be adhered to. The mounting surface is the contact surface with the circuit breaker panel.

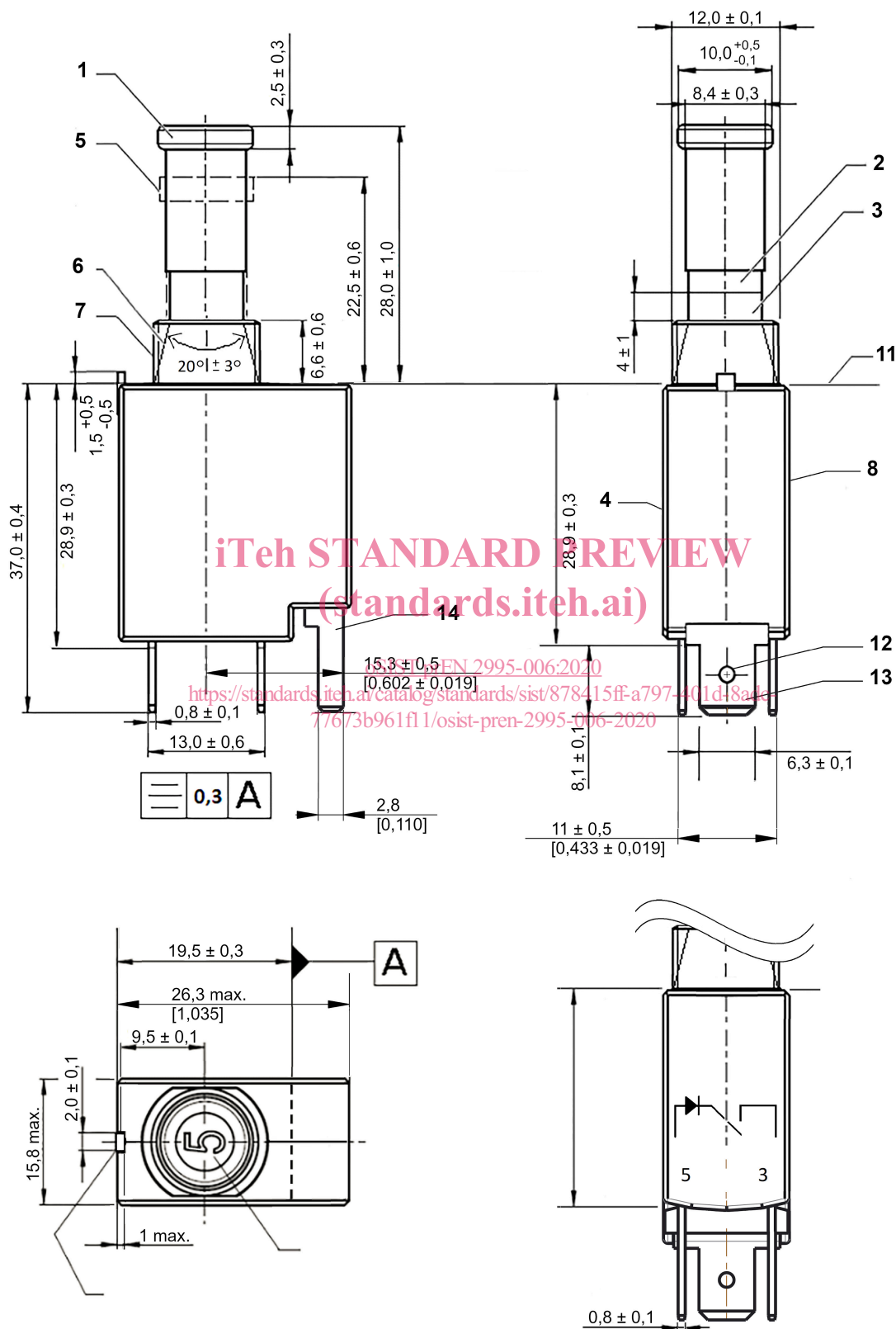
See Figure 1.

¹ 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), <http://www.asd-stan.org/>

² Published by: Department of Defense (DOD), the Pentagon, Washington D.C. 20301 USA

prEN 2995-006:2020 (E)

Extra length push button (L):



Key

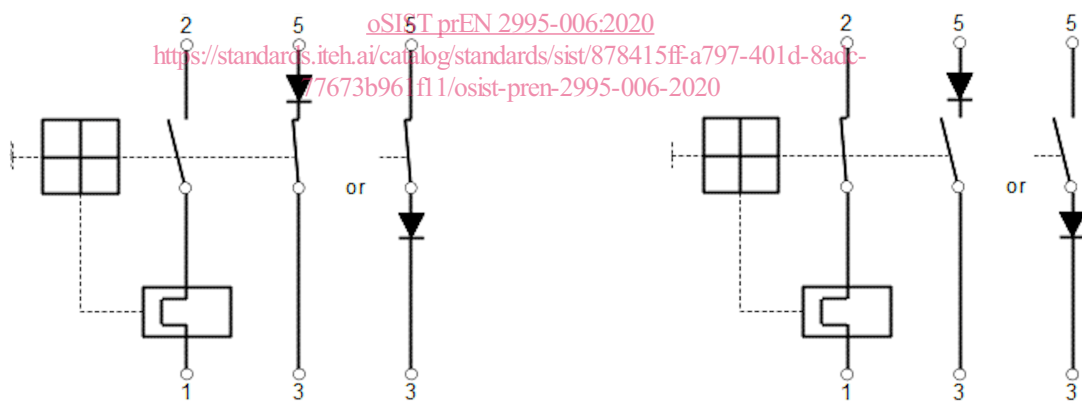
- | | | | |
|---|--|----|---|
| 1 | push button released | 10 | rated current marking (white on black) |
| 2 | black colour according to FED-STD-595B | 11 | mounting surface |
| 3 | white | 12 | optional hole compliant to IEC 60934:2019, Annex E |
| 4 | marking, see Clause 8 | 13 | silver-plated blade according to IEC 60934:2019, Annex E |
| 5 | push button pressed | 14 | body material: copper alloy [see i)] |
| 6 | black conical barrel (C version) | | protective coating: gold on an appropriate undercoat, thickness of protection not specified, selective protection permitted [see ii)] |
| 7 | push button released | | |
| 8 | marking, see Clause 8 | | |
| 9 | positioning lug in accordance with the panel cut-out, as per TR 6083C202 | | |
| P | pitch ($5,9 \pm y$) mm or ($11 \pm 0,5$) mm | | |

i) The dimension of the signal contact blade shall be $(2,8 \pm 0,1) \times (8,1 + 0,7)$ mm: 0,7 mm is the clearance in height in order to accommodate an auxiliary contact receptacle that would have the same height as the power receptacle.

ii) The gold plating should have a minimum of $x \mu\text{m}$ and be applied at least to the dimension of the signal contact described in i).

Figure 1 — Circuit breaker**4.2 Electrical diagram**

See Figure 2.



(a) Push button released: CB is open, signal contact is closed

(b) Push button pressed: CB is closed, signal contact is open

Key

- | | |
|---------|-----------------|
| 1 and 2 | main contacts |
| 1 | supply |
| 2 | load |
| 3 and 5 | signal contacts |

NOTE Load and supply can be inverted.

Figure 2 — Electrical diagram

prEN 2995-006:2020 (E)**4.3 Mass**

Mass shall not exceed 19 g for the conical barrel version and 20 g for the version with the nut.

4.4 Panel Mounting

See EN 2995-001 for the spacing of the circuit breakers.

5 Characteristics**5.1 Material, surface treatment**

See EN 2995-001.

5.2 Mechanical characteristics**5.2.1 Fasteners**

None.

5.2.2 Recommended tightening torque of attaching nut for installation

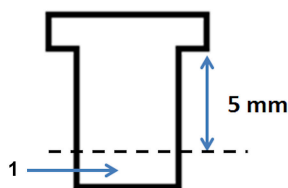
4,00 ± 0,25 N.m (for version with threaded barrel and if nut is needed).

5.2.3 Tensile load of terminals

With 6,3 mm and 2,8 mm terminal blades, test EN 2842-505 is not applicable.

For power blade style terminals, a perpendicular load of 25 N max shall be applied to each terminal successively in increments of 5 N in both directions, applying the load for a period of 1 min at each increment. After removing the load, the terminal shall have a permanent displacement of no more than 0,5 mm from its initial position.

Position of the application of the load should be at least 5 mm from the shoulder of the blade shown below.

**Key**

- 1 correct area for positioning the load

Figure 3

5.2.4 Recommended tools for contacts of auxiliary contact insertion and extraction

Not applicable because auxiliary is to be inserted in blade receptacle.