
Aeronavtika - Odklopniki, enopolni, temperaturno kompenzirani, naznačeni tok od 1 A do 25 A - 006. del: Ploski spoji 6,3 mm - Standard za proizvod

Aerospace series - Circuit breakers, single-pole, temperature compensated, rated currents 1 A to 25 A - Part 006: 6,3 mm blade terminal - Product standard

Luft- und Raumfahrt - Schutzschalter, einpolig, temperaturkompensiert, Nennströme von 1 A bis 25 A - Teil 006: Flachsteckverbinder 6,3 mm - Produktnorm

Série aérospatiale - Disjoncteurs unipolaires compensés en température, intensités nominales 1 A à 25 A - Partie 006 : Raccordement par lame 6,3 mm - Norme de produit

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ICS:

49.060

Letalska in vesoljska
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Aerospace electric
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SIST EN 3773-006:2017

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 3773-006

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English Version

**Aerospace series - Circuit breakers, single-pole,
temperature compensated, rated currents 1 A to 25 A -
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This European Standard was approved by CEN on 20 February 2017.

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.

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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

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European foreword

This document (EN 3773-006:2017) 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 December 2017, and conflicting national standards shall be withdrawn at the latest by December 2017.

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, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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1 Scope

This European 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 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.

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

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. 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 3773-001, *Aerospace series — Circuit breakers, single-pole, temperature compensated, rated currents 1 A to 25 A — Part 001: Technical specification*

EN 3841-100, *Aerospace series — Circuit breakers — Test methods — Part 100: General*

EN 3841-505, *Aerospace series — Circuit breakers — Test methods — Part 505: Strength of main terminals*

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

EN 9133, *Aerospace series — Quality Management Systems — Qualification Procedure for Aerospace Standard Products*

FED-STD-595C, *Colors used in government procurement* ¹⁾

IEC 60934, *Circuit-breakers for equipment* ²⁾

TR 6083, *Aerospace series — Cut-outs for installation of electrical components* ³⁾

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. The mounting surface is the contact surface with the circuit breaker panel.

See Figure 1.

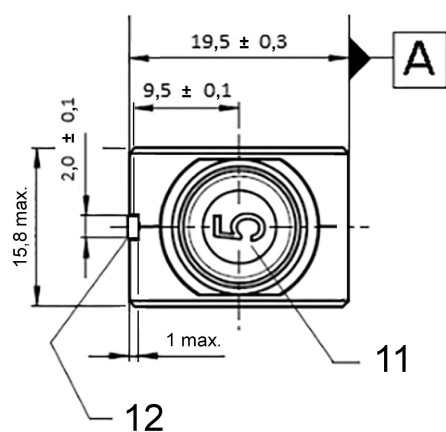
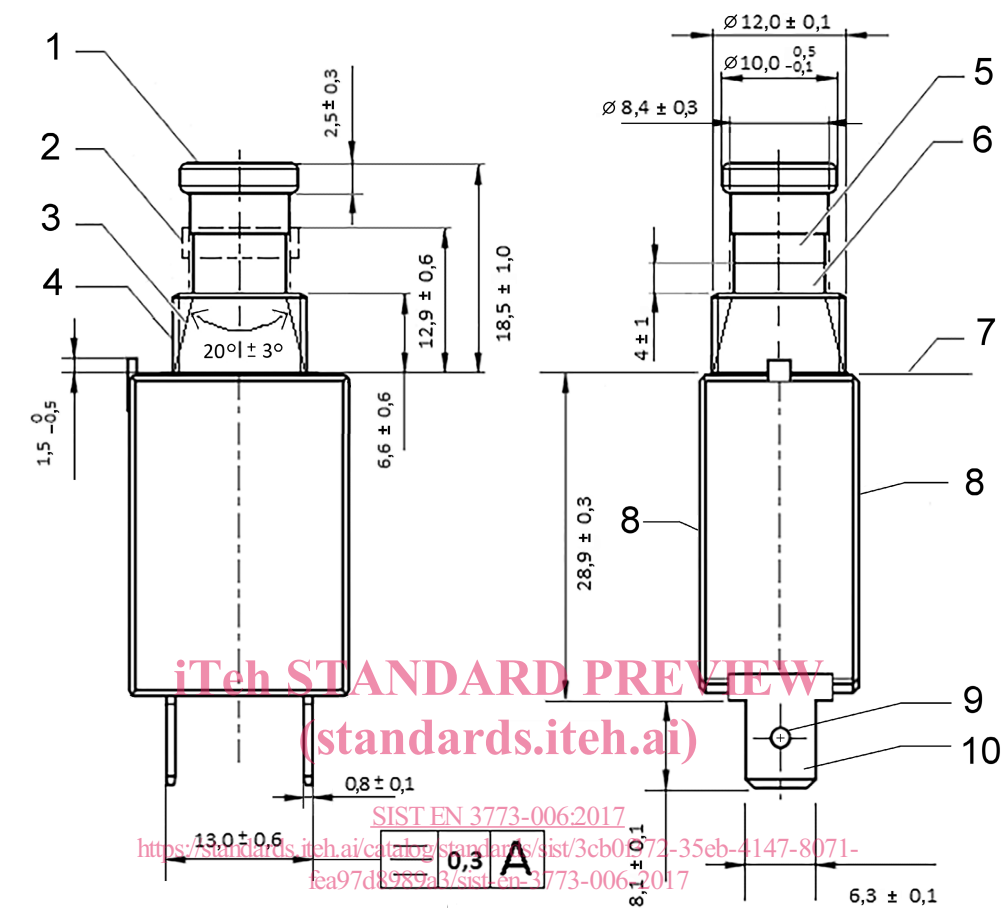
1) Published by: DoD National (US) Mil. Department of Defense (<http://www.defenselink.mil/>).

2) Published by: IEC International Electrotechnical Commission (<http://www.iec.ch/>).

3) Published as ASD-STAN Technical Report at the date of publication of this standard by AeroSpace and Defence industries Association of Europe - Standardization (ASD-STAN) (www.asd-stan.org)

Standard push button (S):

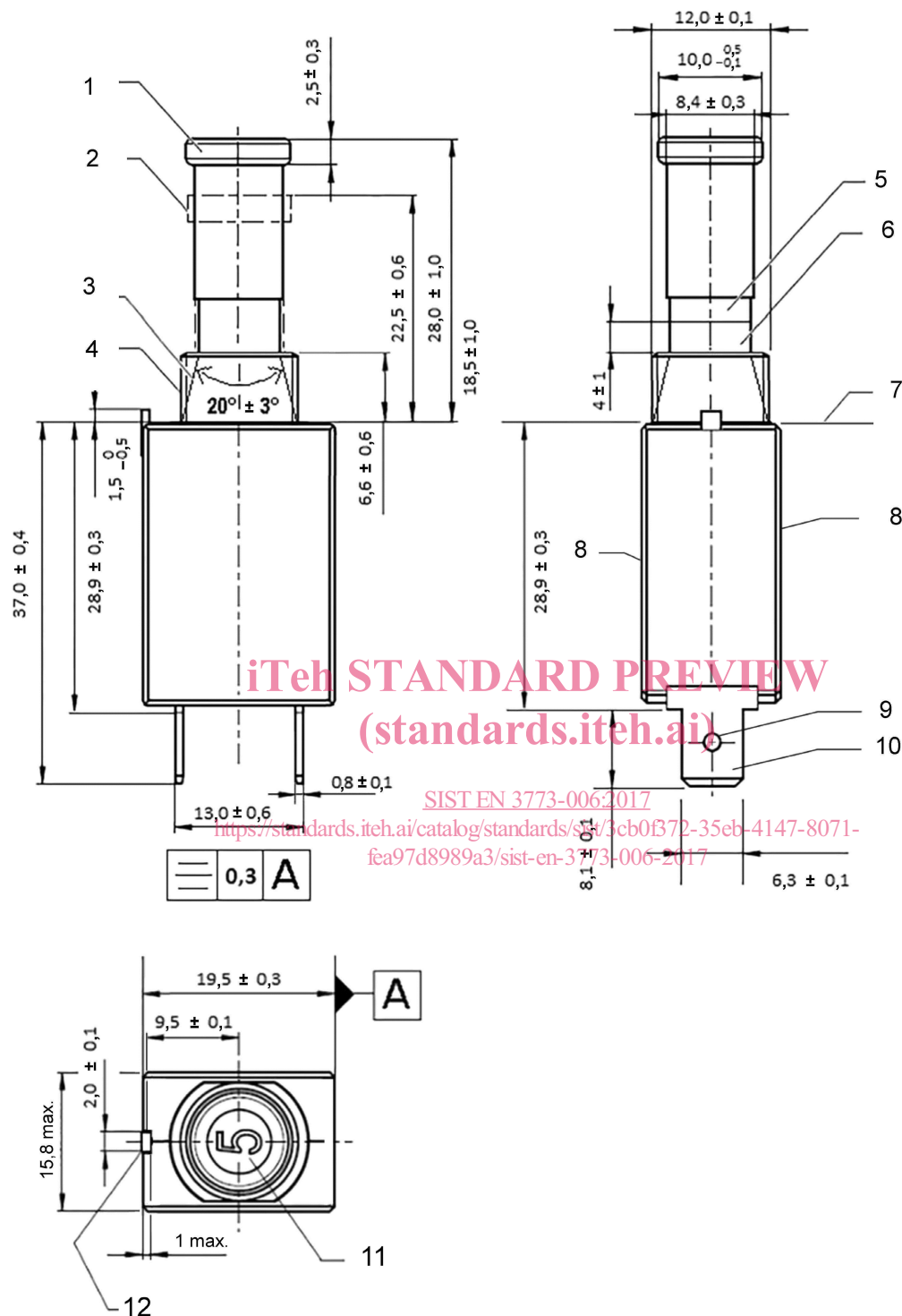
Dimensions are in millimetres



EN 3773-006:2017 (E)

Extra length push button (L):

Dimensions are in millimetres



Key

- | | |
|--|---|
| 1 Push button released | 7 Mounting surface |
| 2 Push button pressed | 8 Marking, see Clause 8 |
| 3 Black conical barrel (C version) | 9 Optional hole compliant to IEC 60934, Annex E |
| 4 Metric barrel version (M version) | 10 Silver plated blade according to IEC 60934, Annex E |
| 5 Black colour according to FED-STD-595B | 11 Rated current marking (white on black) |
| 6 White | 12 Positioning lug in accordance with the panel cut-out, as per TR 6083C202 |

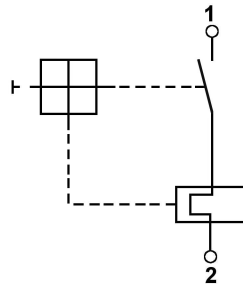
Figure 1 — Circuit breaker

3.2 Electrical diagram

See Figure 2.

Push button released: CB open.

Push button pressed: CB closed.



Key

1 Supply

2 Load

Load and supply can be inverted.

Figure 2 — Electrical diagram
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3.2.1 Mass

Mass shall not exceed 20 g.

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3.3 Panel Mounting

Thickness: 1,5 mm to 3 mm.

4 Characteristics

4.1 Material, surface treatment

See EN 3773-001.

4.2 Mechanical characteristics

4.2.1 Fasteners

None

4.2.2 Recommended tightening torque of attaching nut for installation

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

4.2.3 Recommended tightening torque of connection hardware for installation

With 6,3 mm terminal blades, test EN 3841-505 is not applicable.