

SLOVENSKI STANDARD

SIST EN 3773-004:2015

01-januar-2015

Nadomešča:

SIST EN 3773-004:2002

Aeronavtika - Odklopniki, enopolni, temperaturno kompenzirani, naznačeni tok od 1 A do 25 A - 004. del: UNC-navojni priključki - Standard za proizvod

Aerospace series - Circuit breakers, single-pole, temperature compensated, rated currents 1 A to 25 A - Part 004: UNC thread terminals - Product standard

Luft- und Raumfahrt - Schutzschalter, einpolig, temperaturkompensiert, Nennströme von 1 A bis 25 A - Teil 004: UNC-Klemmengewinde - Produktnorm

Série aérospatiale - Disjoncteurs unipolaires compensés en température, intensités nominales 1 A à 25 A - Partie 004: Bornes à filetage UNC - Norme de produit

Ta slovenski standard je istoveten z: EN 3773-004:2014

ICS:

49.060

Letalska in vesoljska
električna oprema in sistemi

Aerospace electric
equipment and systems

SIST EN 3773-004:2015

en,fr,de

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 3773-004:2015

<https://standards.iteh.ai/catalog/standards/sist/9131b92b-ace8-4507-bbfc-b0091aa941f5/sist-en-3773-004-2015>

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 3773-004

October 2014

ICS 49.060

Supersedes EN 3773-004:1999

English Version

Aerospace series - Circuit breakers, single-pole, temperature compensated, rated currents 1 A to 25 A - Part 004: UNC thread terminals - Product standard

Série aérospatiale - Disjoncteurs unipolaires compensés en température, intensités nominales 1 A à 25 A - Partie 004 : Bornes à filetage UNC - Norme de produit

Luft- und Raumfahrt - Schutzschalter, einpolig, temperaturkompensiert, Nennströme von 1 A bis 25 A - Teil 004: UNC-Klemmengewinde - Produktnorm

This European Standard was approved by CEN on 12 October 2013.

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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



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

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

Contents

Page

Foreword.....	3
1 Scope	4
2 Normative references	4
3 Terms and definitions	4
4 Dimensions and mass	4
5 Characteristics	6
6 Designation	11
7 Rated current code	11
8 Delivery hardware codes	11
9 Marking	12
10 Technical specification	12

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 3773-004:2015](https://standards.iteh.ai/catalog/standards/sist/9131b92b-ace8-4507-bbfc-b0091aa941f5/sist-en-3773-004-2015)

<https://standards.iteh.ai/catalog/standards/sist/9131b92b-ace8-4507-bbfc-b0091aa941f5/sist-en-3773-004-2015>

Foreword

This document (EN 3773-004:2014) 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 April 2015, and conflicting national standards shall be withdrawn at the latest by April 2015.

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.

This document supersedes EN 3773-004:1999.

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, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

[SIST EN 3773-004:2015](https://standards.iteh.ai/catalog/standards/sist/9131b92b-ace8-4507-bbfc-b0091aa941f5/sist-en-3773-004-2015)

<https://standards.iteh.ai/catalog/standards/sist/9131b92b-ace8-4507-bbfc-b0091aa941f5/sist-en-3773-004-2015>

EN 3773-004:2014 (E)

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 22 000 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 2350, *Aerospace series — Circuit breakers — Technical specification*

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 6113, *Aerospace series — Circuit breaker, connecting and attachment hardware* ¹⁾

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

FED-STD-595B, *Colors used in Government Procurement* ³⁾

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 2350 apply.

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.

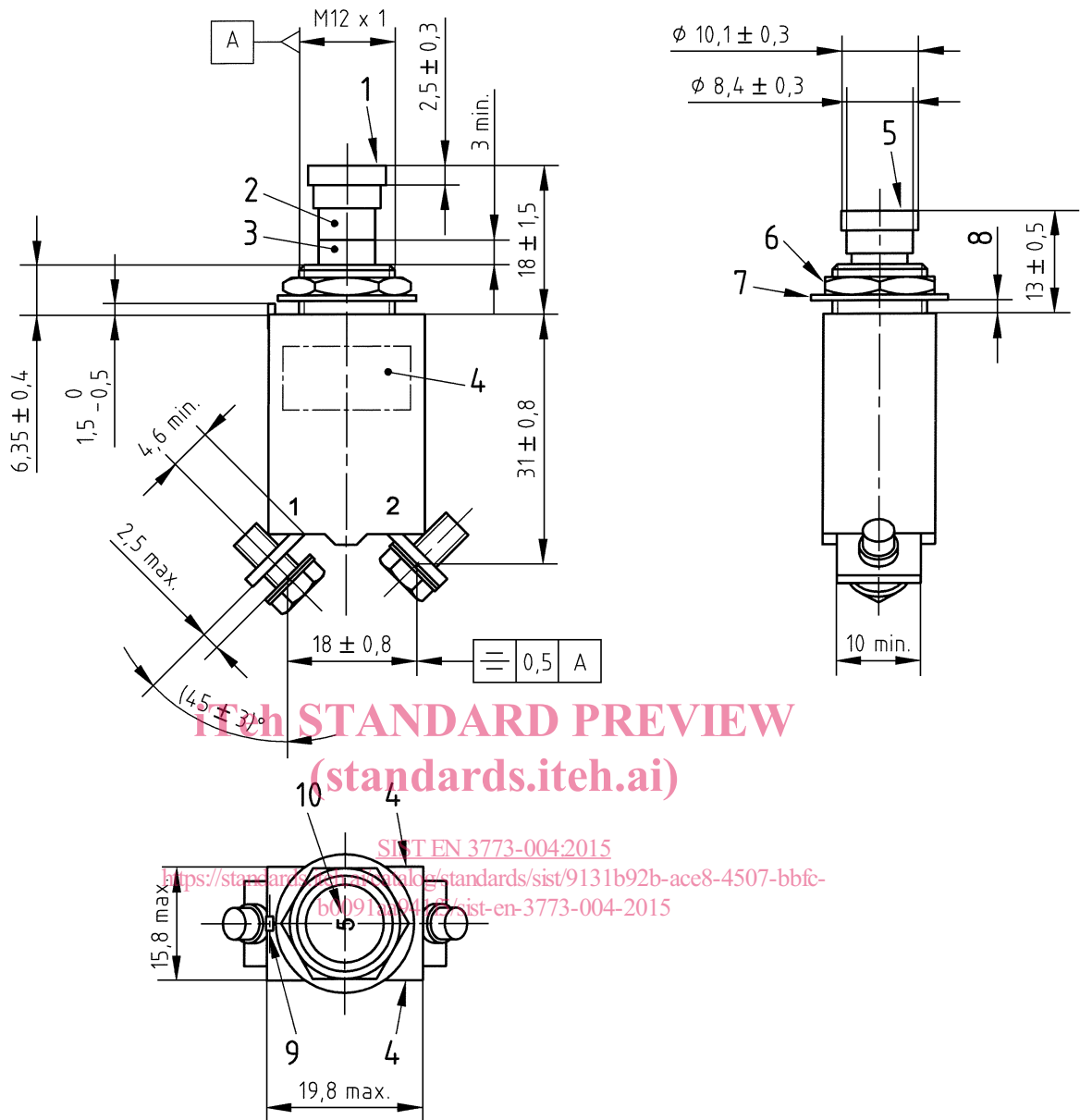
See Figure 1.

Dimensions are in millimetres with exception terminal thread 8-32 UNC.

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

2) Published as ASD-STAN Technical Report at the date of publication of this standard. <http://www.asd-stan.org/>

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



Key

- | | |
|--|--|
| 1 Push button released | 7 Lock washer |
| 2 Black colour according to FED-STD-595B | 8 1,0 max. to 3,0 max. |
| 3 White | 9 Positioning lug in accordance with the panel cut-out, as per TR 6083C202 |
| 4 Marking, see Clause 6. | 10 Rated current marking (white on black) |
| 5 Push button pressed | |
| 6 Attachment nut | |

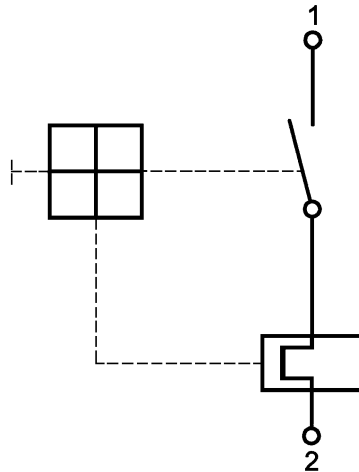
Figure 1 — Circuit breaker

EN 3773-004:2014 (E)**4.2 Electrical diagram**

See Figure 2.

Push button released: CB open.

Push button pressed: CB closed.

**Key**

- 1 Supply
- 2 Load

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 3773-004:2015](https://standards.iteh.ai/catalog/standards/sist/9131b92b-ace8-4507-bbfc-b0091aa941f5/sist-en-3773-004-2015)

Load and supply can be inverted. <https://standards.iteh.ai/catalog/standards/sist/9131b92b-ace8-4507-bbfc-b0091aa941f5/sist-en-3773-004-2015>

Figure 2 — Electrical diagram

4.3 Mass

26 g max. (delivery hardware code A).

4.4 Panel mounting

See EN 3773-001.

5 Characteristics**5.1 Material, surface treatment**

See EN 3773-001.

5.2 Mechanical characteristics**5.2.1 Fasteners**

See EN 6113.

5.2.2 Recommended tightening torque of attaching nut for installation

$(4,00 \pm 0,25)$ N.m

5.2.3 Recommended tightening torque of connection hardware for installation

$(1,6 \pm 0,1)$ N.m

5.2.4 Resistance to vibrations**5.2.4.1 Combined test: ambient temperature at 70 °C and vibrations**

Sinusoidal : 10 g_n , see EN 3773-001.

Random : 5,8 g_n , see EN 3773-001.

Low frequencies : 10 g_n , see EN 3773-001.

5.2.4.2 Combined test: ambient temperature at 85 °C, altitude and vibrations

Sinusoidal : 3 g_n , see EN 3773-001.

5.2.5 Resistance to shocks

50 g_n , see EN 3773-001.

5.2.6 Mechanical endurance

See Table 6.

[SIST EN 3773-004:2015
https://standards.iteh.ai/catalog/standards/sist/9131b92b-ace8-4507-bbfc-b0091aa941f5/sist-en-3773-004-2015](https://standards.iteh.ai/catalog/standards/sist/9131b92b-ace8-4507-bbfc-b0091aa941f5/sist-en-3773-004-2015)

5.3 Environment characteristics**5.3.1 Humidity**

See EN 3773-001.

5.3.2 Corrosion

See EN 3773-001.

5.3.3 Contaminating liquids

See EN 3773-001.

5.3.4 Overvoltage caused by lightning

See EN 3773-001.