

STN	Letectvo a kozmonautika Jednopolové ističe na poruchový oblúk, tepelne kompensované, menovitý prúd od 3 A do 25 A, striedavé napätie 115 V, konštantná frekvencia 400 Hz Časť 005: S polarizovaným signálnym kontaktom Norma na výrobok	STN EN 4838-005 31 1748
------------	--	---

Aerospace series - Arc fault circuit breakers, single-pole, temperature compensated, rated current 3 A to 25 A - 115 V a.c. 400 Hz Constant Frequency - Part 005: 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. 11/19

Obsahuje: EN 4838-005:2019

129469

EUROPEAN STANDARD

EN 4838-005

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 2019

ICS 49.060

English Version

**Aerospace series - Arc fault circuit breakers, single-pole,
temperature compensated, rated current 3 A to 25 A - 115
V a.c. 400 Hz Constant Frequency - Part 005: With
polarized signal contact - Product standard**

Série aérospatiale - Disjoncteurs unipolaires à
détection d'arc compensés en température, intensités
nominales 3 A à 25 A - 115 V c.a. 400 Hz fréquence fixe
- Partie 005 : Avec contact de signalisation polarisé -
Norme de produit

Luft- und Raumfahrt - Arc Fault Schutzschalter,
einpolig, Temperaturkompensiert, Nennströme von 3
A bis 25 A - 115 V a.c. 400 Hz Konstantfrequenz - Teil
005: Mit polarisiertem Signalkontakt - Produktnorm

This European Standard was approved by CEN on 7 December 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.

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, Serbia, 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: Rue de la Science 23, B-1040 Brussels

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

European foreword

This document (EN 4838-005:2019) 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 2019, and conflicting national standards shall be withdrawn at the latest by December 2019.

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 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.

EN 4838-005:2019 (E)**1 Scope**

This document specifies the required characteristics for single-pole, arc fault circuit breakers rated currents from 3 A to 25 A, switching capacity $65 I_n$, for use in aircraft electrical systems. Their operating temperatures are between -40 °C to 85 °C at a maximum altitude of $Z = 15\ 000\text{ m}$. The thermal protection is temperature compensated and operates between -55 °C and 125 °C .

These circuit breaker 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 3155-016, *Aerospace series — Electrical contacts used in elements of connection — Part 016: Contacts, electrical, male, type A, crimp, class S — Product standard*

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

EN 4838-001, *Aerospace series — Arc Fault Circuit breakers, single-pole, temperature compensated, rated current 3 A to 25 A — 115 Vac 400 Hz constant frequency — Part 001: Technical specification*

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

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

MIL-S-19500B, *Semiconductor Device, Diode, Type 1N969 (Navy)* ²⁾

MIL-I-81969/1, *Installing and removal tools, connector electrical contact, Type III, Class 2, composition C* ²⁾

MIL-I-81969/14, *Installing and removal tools, connector electrical contact, Type III, Class 2, composition B* ²⁾

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

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 3841-100 apply.

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

koniec náhľadu – text ďalej pokračuje v platenej verzii STN

1) Published as ASD-STAN Technical Report at the date of publication of this European standard by AeroSpace and Defence industries Association of Europe - Standardization (ASD-STAN), <http://www.asd-stan.org>

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