SLOVENSKI STANDARD
SIST EN 4728:2015

01-oktober-2015

Aeronavtika - Enopolni in tripolni slepi odklopniki - Standard za proizvod

Aerospace series - Circuit breakers, single and three poles dummies - Product standard

Luft- und Raumfahrt - Schhutzschalter Attrappe, einpolig und dreipolig - Produktnorm

Série aérospatiale - Disjoncteurs unipolaires et tripolaires factices - Norme de produit

Ta slovenski standard je istoveten z: **EN 4728:2015**

ICS:

49.060	Letalska in vesoljska električna oprema in sistemi	Aerospace electric equipment and systems

SIST EN 4728:2015 **en,fr,de**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 4728

July 2015

ICS 49.060

English Version

Aerospace series - Circuit breakers, single and three poles dummies - Product standard

Série aérospatiale - Disjoncteurs unipolaires et tripolaires factices - Norme de produit

Luft- und Raumfahrt - Schutzschalter-Attrappe, einpolig und dreipolig - Produktnorm

This European Standard was approved by CEN on 29 November 2014.

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

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

Ref. No. EN 4728:2015 E

Contents

Page

European foreword

This document (EN 4728:2015) 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 European 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of an identical text or by endorsement, at the latest by January 2016, and conflicting national standards shall be withdrawn at the latest by January 2016.

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

1 Scope

This European Standard specifies the characteristics of dummy circuit breakers used in aircraft on-board circuits in order to connect the cables provisionally installed. There are no electrical connections between any of the terminals.

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

EN 2995-004, *Aerospace series — Circuit breakers, single-pole, temperature compensated, rated current 1 A to 25 A — Part 004: With signal contact — Product standard*

EN 2995-005, *Aerospace series — Circuit breakers, single-pole, temperature compensated, rated current 1 A to 25 A — Part 005: With polarized signal contact — Product standard*

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

EN 2996-004, *Aerospace series — Circuit breakers, three-pole, temperature compensated, rated current 1 A to 25 A — Part 004: With signal contact — Product standard*

EN 3661-001, *Aerospace series — Circuit breakers, single-pole, temperature compensated, rated current 20 A to 50 A — Part 001: Technical specification*

EN 3661-006, *Aerospace series — Circuit breakers, single-pole, temperature compensated, rated current 20 A to 50 A — Part 006: With polarized signal contact — Bus-bar version — Product standard*

EN 3662-001, *Aerospace series — Circuit breakers, three-pole, temperature compensated, rated current 20 A to 50 A — Part 001: Technical specification*

EN 3662-006, *Aerospace series — Circuit breakers, three-pole, temperature compensated, rated current 20 A to 50 A — Part 006: With polarized signal contact — Bus-bar version — Product standard*

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

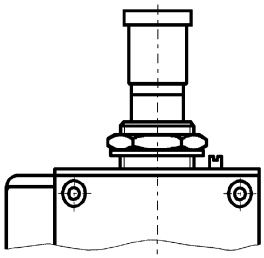
3 Dimensions and mass

3.1 Front side characteristics

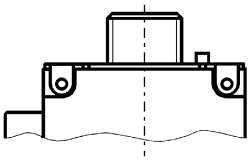
The circuit breakers do not have to correspond to the pictorial illustration, it shows only the model code.

See Figure 1.

1) Published as ASD-STAN Prestandard at the date of publication of this European Standard (http://www.asd-stan.org/).



a) Model code A
(with control button in the open position)



b) Model code B
(without control button, the neck is black and filled)

Figure 1 — Front side characteristics

3.2 Mass

See Table 1.

3.3 Panel mounting

See product standard.

4 Characteristics

4.1 Material, surface treatment

See Table 4.

4.2 Mechanical characteristics

4.2.1 General

See Table 1.

Table 1

Dummy circuit breaker Dimensional code	Corresponding functional circuit breaker With auxiliary contacts	Model code	Tightening torque N.m Terminals	 threadneck	Mass g max.
01	EN 2995-004	A or B	1,6 ± 0,1	4 ± 0,25	22,3
03	EN 2996-004	A or B	1,6 ± 0,1	4 ± 0,25	36,9
04	EN 3662-006	A or B	2,35 ± 0,15	4 ± 0,25	90
05 [a]	EN 2995-005	B	NA	4 ± 0,25	10
06	EN 3661-006	B	2,35 ± 0,15	4 ± 0,25	39

[a] No power terminals.

4.2.2 Fasteners

See Table 3.

4.2.3 Recommended tightening torque of attaching nut for installation

See Table 1.

4.2.4 Recommended tightening torque of terminal connection hardware for installation

See Table 1.

4.2.5 Resistance to vibrations

Products shall withstand their respective vibrations requirement of the related circuit breaker specifications, see Clause 7. The pass fail criteria is no defective attachment shall be witness.

4.2.6 Resistance to shocks

Products shall withstand their respective shocks requirement of the related circuit breaker specifications, see Clause 7. The pass fail criteria is no defective attachment shall be witness.

4.2.7 Mechanical endurance

Not applicable.

4.3 Environment characteristics

4.3.1 Humidity

Products shall withstand their respective humidity requirement of the related circuit breaker specifications, see Clause 7.

4.3.2 Corrosion

Products shall withstand their respective corrosion requirement of the related circuit breaker specifications, see Clause 7.

4.3.3 Contaminating liquids

Products shall withstand their respective contaminating liquids requirement of the related circuit breaker specifications, see Clause 7.

4.3.4 Overvoltage caused by lightning

Not applicable.

4.4 Electrical characteristics

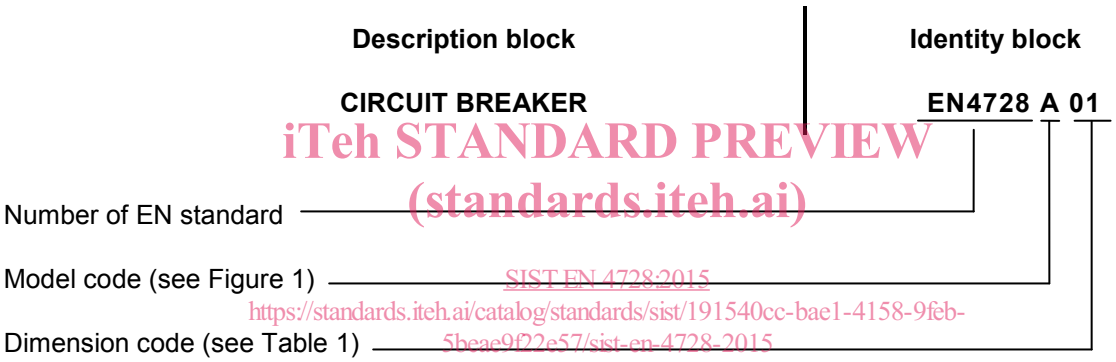
See Table 2.

Table 2 — Dielectric rigidity

Closed position	$Z = 0$ m
1 and 2 with attachment	1 500 V
Open position	$Z = 0$ m
1 with 2 1 and 2 with attachment	1 500 V

5 Designation

5.1 Product designation



5.2 Procurement designation