

STN	Letectvo a kozmonautika Ističe Technická špecifikácia	STN EN 2350 31 1730
------------	--	---------------------------------------

Aerospace series - Circuit breakers - Technical specification

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. 12/24

Obsahuje: EN 2350:2024

Oznámením tejto normy sa ruší
STN EN 2350 (31 1730) z mája 1998

139679

EUROPEAN STANDARD

EN 2350

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2024

ICS 49.060

Supersedes EN 2350:1990

English Version

Aerospace series - Circuit breakers - Technical specification

Série aérospatiale - Disjoncteurs - Spécification technique

Luft- und Raumfahrt - Schutzschalter - Technische Lieferbedingungen

This European Standard was approved by CEN on 29 April 2024.

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, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye 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**

EN 2350:2024 (E)

Contents	Page
European foreword	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	5
4 Design	6
4.1 Insulating housing.....	6
4.2 Trip-free mechanism	6
4.3 Mounting.....	7
4.4 Electrical connection components.....	7
4.5 Actuator button	7
4.6 Calibration safety device	7
4.7 Leakage paths.....	7
4.8 Insulants.....	7
4.9 Protection against corrosion	7
4.10 Fasteners.....	7
5 Tests - Requirements - Procedures - Evaluation	9
5.1 General.....	9
5.2 Mechanical tests	10
5.2.1 Visual inspection.....	10
5.2.2 Dimensions and masses	10
5.2.3 Actuating components	10
5.2.4 Strength of mounting.....	11
5.2.5 Strength of connections	11
5.3 Environmental tests.....	12
5.3.1 Vibration performance	12
5.3.2 Mechanical shocks.....	12
5.3.3 Centrifugal acceleration	13
5.4 Climatic environmental tests.....	14
5.4.1 Sand and dust	14
5.4.2 Corrosion test (salt spray).....	14
5.4.3 Humidity	14
5.4.4 Resistance to explosion	15
5.4.5 Fluid contamination.....	15
5.5 Electrical tests.....	17
5.5.1 Voltage drop.....	17
5.5.2 Insulation resistance	17
5.5.3 Dielectric strength.....	18
5.5.4 Tripping points	18
5.5.5 Short circuit performance	19
5.6 Service life tests (endurance).....	22
5.6.1 General.....	22
5.6.2 Procedure	22
5.6.3 Service life with overload tripping.....	23
6 Qualification	23
6.1 General conditions	23

6.2	Selection of samples	23
7	Periodic tests to maintain qualification	26
7.1	Circuit breakers	26
7.2	Materials	26
8	Acceptance	27
8.1	Responsibility	27
8.2	Tests	27
8.2.1	General	27
8.2.2	Evaluation.....	27
9	Marking.....	28
	Bibliography	29

EN 2350:2024 (E)**European foreword**

This document (EN 2350:2024) has been prepared by ASD-STAN.

After enquiries and votes carried out in accordance with the rules of this Association, this document has received the approval of the National Associations and the Official Services of the member countries of ASD-STAN, prior to its presentation to CEN.

This document shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by April 2025, and conflicting national standards shall be withdrawn at the latest by April 2025.

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.

This document supersedes EN 2350:1990.

The main changes with respect to the previous edition are as follows:

— EN 2350 (P1), 09/1990 — General editorial improvements and update of Clause 2 and Bibliography.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this document: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

1 Scope

This document gives design information and specifies test methods for aircraft circuit breakers covered by European Standards. It is applicable if it is referred to in these standards.

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.

ISO 2669, *Environmental tests for aircraft equipment — Steady-state acceleration*

ISO 7137, *Aircraft — Environmental conditions and test procedures for airborne equipment*

IEC 60050-441, *International electrotechnical vocabulary (IEV) — Part 441: Switchgear, controlgear and fuses*

ASTM D740,¹ *Standard Specification for Methyl Ethyl Ketone*

ASTM D910,¹ *Standard Specification for Leaded Aviation — Gasolines*

MIL-PRF-7870C,² *Performance specification, lubricating oil: General purpose, low temperature*

MIL-PRF-23699F,² *Performance specification: Lubricating oil, aircraft turbine engine, synthetic base NATO code number O-156*

MIL-PRF-87937D,² *Performance specification: Cleaning compound, aerospace equipment*

SAE AMS1424G,³ *Deicing/anti-icing fluid, aircraft, Newtonian — SAE Type I*

SAE AS1241C,³ *Fire Resistant Phosphate Ester Hydraulic Fluid for Aircraft*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN