

**Railway applications - Fixed installations - D.C.
switchgear - Part 2: D.C. circuit breakers**

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NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 50123-2:2002 sisaldab Euroopa standardi EN 50123-2:1995+A1:1996 ingliskeelset teksti.

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This Estonian standard EVS-EN 50123-2:2002 consists of the English text of the European standard EN 50123-2:1995+A1:1996.

This standard is ratified with the order of Estonian Centre for Standardisation dated 18.12.2002 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

The standard is available from Estonian standardisation organisation.

ICS 29.130.99, 45.020

circuit breaker, d.c., definition, dielectric strength test, electric endurance test, electric traction, equipment specification, fatigue test, heating test, information, marking, performance evaluation, railway fixed equipment, temperature rise

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Descriptors: Railway fixed equipment, electric traction, d.c., circuit breaker, definition, performance evaluation, equipment specification, temperature rise, electric endurance test, fatigue test, heating test, dielectric strength test, information, marking

English version

Railway applications
Fixed installations - D.C. switchgear
Part 2: D.C. circuit breakers

Applications ferroviaires
Installations fixes
Appareillage à courant continu
Partie 2: Coupe-circuit

Bahnanwendungen
Ortsfeste Anlagen
Gleichstrom-Schaltanlagen
Teil 2: Gleichstrom-Leistungsschalter

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CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

FOREWORD

This European Standard was prepared by SC 9XC, Electric supply and earthing systems for public transport equipment and ancillary apparatus (fixed installations) of Technical Committee CENELEC TC 9X, Electrical and electronic applications for railways.

The text of the draft was submitted to the Unique Acceptance Procedure and was approved by CENELEC as EN 50123-2 on 1994-12-06.

The following dates were fixed:

- latest date by which the EN has to be implemented
at national level by publication of an identical
national standard or by endorsement (dop) 1995-12-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 1995-12-01

This part 2 is to be used in conjunction with EN 50123-1:1995, Railway applications - Fixed installations - D.C. switchgear - Part 1: General.

Annexes designated "normative" are part of the body of the standard. Annexes designated "informative" are given for information only. In this standard, annexes A and B are normative and annex C is informative.

1 SCOPE

This Part of EN 50123 specifies requirements for d.c. circuit breakers for use in stationary installations of traction systems.

NOTE 1: EN 50123-6 specifies requirements for d.c. switchgear assemblies

NOTE 2: EN 50121-5 specifies requirements for electromagnetic compatibility (EMC).

NOTE 3: EN 50126 specifies requirements for dependability.

2 NORMATIVE REFERENCES

For the purposes of this standard, the normative references given in EN 50123-1:1995 apply.

3 DEFINITIONS

For the purposes of this standard, the definitions given in EN 50123-1:1995 apply.

4 SERVICE CONDITIONS

Where service conditions differ from those defined as "normal" in clause 4 and annex B of EN 50123-1:1995, the purchaser shall state this fact in the tender specification. Where a d.c. circuit breaker is suitable for use in service conditions different from those defined as "normal" in clause 4 and annex B of EN 50123-1:1995, the manufacturer shall state this fact.

5 CHARACTERISTICS OF THE CIRCUIT BREAKER

5.1 Enumeration of the characteristics

The characteristics of a circuit breaker and its assigned designations and values where applicable are as follows:

- type of circuit breaker (5.2);
- rated values and limit values of the main circuit and short-circuit characteristics (5.3);
- control circuits (5.4);
- auxiliary circuits (5.5);
- releases or relays (5.6);
- switching overvoltages (5.7).

5.2 Type of circuit breaker

A circuit breaker is defined by the following details as applicable.

NOTE 1: As far as applicable the following requirements also apply to single-pole circuit breakers electrically or mechanically interlocked in multiple systems.