ICS 29.120.50, 29.280 SLOVENSKÁ TECHNICKÁ NORMA December 2014

STN	**Dráhové aplikácie. Pevné inštalácie. Zvodiče prepätia a prístroje na obmedzenie napätia v sieťach jednosmerného prúdu. Časť 2: Prístroje na obmedzenie napätia.**	**STN EN 50526-2** 34 1560

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. 11/14

Obsahuje: EN 50526-2:2014

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 50526-2

February 2014

ICS 29.120.50; 29.280

English version

Railway applications - Fixed installations - D.C. surge arresters and voltage limiting devices - Part 2: Voltage limiting devices

Applications ferroviaires - Installations fixes - Parafoudres et limiteurs de tension pour systèmes à courant continu - Partie 2: Limiteurs de tension

Bahnanwendungen - Ortsfeste Anlagen - Überspannungsableiter und Spannungsbegrenzungseinrichtungen - Teil 2: Spannungsbegrenzungseinrichtungen

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CENELEC

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

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Ref. No. EN 50526-2:2014 E

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Foreword

This document (EN 50526-2:2014) has been prepared by CLC/SC 9XC "Electric supply and earthing systems for public transport equipment and ancillary apparatus (Fixed installations)".

The following dates are fixed:

• latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2014-12-30
• latest date by which the national standards conflicting with this document have to be withdrawn	(dow)	2016-12-30

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This European Standard, *Railway applications — Fixed installations — D.C. surge arresters and voltage limiting devices*, is in three parts:

— *Part 1: Surge arresters* deals with metal oxide arresters without gaps for d.c. railway traction systems (fixed installations) and is based on EN 60099-4, Ed. 2.2, 2009-5;

— *Part 2: Voltage limiting devices* [the present text] deals with voltage limiting devices for specific use in d.c. railway traction systems (fixed installations);

— *Part 3 Application guide* [currently at Enquiry stage] deals with a guide of application of metal-oxide arresters and of voltage limiting devices.

1 Scope

This European Standard applies to Voltage Limiting Devices (VLDs) to be applied in d.c. traction systems in order to comply with protective provisions against electric shock from d.c., and mixed a.c. – d.c. voltages, in accordance with the EN 50122 series, taking into account stray current provisions.

VLDs operate in such a way as to connect the track return circuit of d.c. railway systems to the earthing system or to conductive parts within the overhead contact line zone or current collector zone.

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 50122-1:2011, *Railway applications — Fixed installations — Electrical safety, earthing and the return circuit — Part 1: Protective provisions against electric shock*

EN 50122-3:2010, *Railway applications — Fixed installations — Electrical safety, earthing and the return circuit — Part 3: Mutual Interaction of a.c. and d.c. traction systems*

EN 50123-1:2003, *Railway applications — Fixed installations — D.C. switchgear — Part 1: General*

EN 50123-7 (all parts), *Railway applications — Fixed installations — D.C. switchgear — Part 7-x: Measurement, control and protection devices for specific use in d.c. traction systems*

EN 50124-1, *Railway applications — Insulation coordination — Part 1: Basic requirements — Clearances and creepage distances for all electrical and electronic equipment*

EN 50125-2, *Railway applications — Environmental conditions for equipment — Part 2: Fixed electrical installations*

EN 50163:2004, *Railway applications — Supply voltages of traction systems*

EN 50526-1:2012, *Railway applications — Fixed installations — D.C. surge arresters and voltage limiting devices — Part 1: Surge arresters*

EN 60060-1, *High-voltage test techniques — Part 1: General definitions and test requirements (IEC 60060-1)*

EN 60085, *Electrical insulation — Thermal evaluation and designation (IEC 60085)*

EN 60529:1991, *Degrees of protection provided by enclosures (IP Code) (IEC 60529:1989)*

EN 61643-311, *Components for low-voltage surge protective devices — Part 311: Performance requirements and test circuits for gas discharge tubes (GDT) (IEC 61643-311)*

EN ISO 4287, *Geometrical product specifications (GPS) — Surface texture: Profile method — Terms, definitions and surface texture parameters (ISO 4287)*

EN ISO 4892-1, *Plastics — Methods of exposure to laboratory light sources — Part 1: General guidance (ISO 4892-1)*

EN ISO 4892-2, *Plastics — Methods of exposure to laboratory light sources — Part 2: Xenon-arc lamps (ISO 4892-2)*

EN ISO 4892-3, *Plastics — Methods of exposure to laboratory light sources — Part 3: Fluorescent UV lamps (ISO 4892-3)*