

SLOVENSKI STANDARD
SIST EN 50317:2026**01-marec-2026****Nadomešča:****SIST EN 50317:2012****SIST EN 50317:2012/AC:2013**

Železniške naprave - Sistemi za odjem toka - Zahteve in veljavnost meritev medsebojnih dinamičnih vplivov med odjemnikom toka in kontaktnim vodnikom

Railway applications - Current collection systems - Requirements for and validation of measurements of the dynamic interaction between pantograph and overhead contact line

Bahnanwendungen - Stromabnahmesysteme - Anforderungen und Validierung von Messungen des dynamischen Zusammenwirkens zwischen Stromabnehmer und Oberleitung

Applications ferroviaires - Systèmes de captage de courant - Prescriptions et validation des mesures de l'interaction dynamique entre le pantographe et la caténaire

Ta slovenski standard je istoveten z: EN 50317:2025**ICS:**

29.280	Električna vlečna oprema	Electric traction equipment
45.060.10	Vlečna vozila	Tractive stock

SIST EN 50317:2026**en**

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EUROPEAN STANDARD

EN 50317

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2025

ICS 29.280; 45.060.10

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English Version

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und Oberleitung

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European Committee for Electrotechnical Standardization
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EN 50317:2025 (E)**European foreword**

This document (EN 50317:2025) has been prepared by CLC/SC 9XC, “Electric supply and earthing systems for public transport equipment and ancillary apparatus (Fixed installations)”, of CLC/TC 9X, “Electrical and electronic applications for railways”.

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) 2026-12-31
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2028-12-31

This document supersedes EN 50317:2012 and all of its amendments and corrigenda (if any).

EN 50317:2025 includes the following significant technical changes with respect to EN 50317:2012:

- changed definitions for “collector head” replaced by “pantograph head” (3.1);
- changed definitions for “total mean uplift force” replaced by “mean cord force” (3.1);
- new definition “expansion length” (3.1);
- changed definitions “arcing” (3.1);
- added definition for “nominal voltage” (3.1);
- new definition “reference threshold”, “measurement threshold” and “reference distance” (3.1);
- updated abbreviation lists (now 3.2);
- minimum conditions recorded for measurements (Clause 4);
- more detailed explanation of measurement of cord forces (Clause 5);
- measurement of contact force (Clause 6);
 - updated requirements for definitions of requirements;
 - aerodynamic influence, Inertia correction force, Aerodynamic correction force;
 - definition of Dynamic laboratory test of the instrumented pantograph;
 - updated requirements for of measurement results, control section possible acceptable exceptions;
- measurement of displacement (Clause 7);
 - uplift at the support how to achieve representative results;
- measurement of times during pantograph lowering (Clause 8);
- measurement of arcing (Clause 9);

- removed wavelength 323 nm – 329 nm;
- reference threshold values from note to normative;
- more detailed definition of control section and possible acceptable exceptions;
- more detailed definition of Adjustment of threshold for the measurement distance.

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