SVENSK STANDARD

SS-EN 50341-2-1, utg 2:2024

Fastställd	Sida	Ansvarig kommitté
2024-10-23	1 (98)	SEK TK 11

Elektriska friledningar över 1 kV (AC) – Del 2-1: Normativ bilaga för Österrike

Overhead electrical lines exceeding AC 1 kV –
Part 2-1: National Normative Aspects (NNAs) for Austria (based on EN 50341-1:2012)

Som svensk standard gäller europastandarden EN 50341-2-1:2022. Den svenska standarden innehåller den officiella engelska språkversionen av EN 50341-2-1:2022.

Nationellt förord

Den europeiska standarden EN 50341 består av två delar:

EN 50341-1:2012, som innehåller avsnitt gemensamma för hela CENELEC

EN 50341-2, som innehåller nationella normativa bilagor, vilka ger de fordringar som i respektive land gäller utöver eller istället för fordringarna i motsvarande avsnitt i del 1.

Denna utgåva av standarden SS-EN 50341-2-1 innehåller den officiella engelska språkversionen av EN 50341-2-1:2022. Den gäller i Sverige tillsammans med SS-EN 50341-1, utgåva 2:2017.

ANM – För användning tillsammans med den nationella normativa bilagan för något annat land kan den tidigare utgåvan av SS EN 50341-1 fortsätta att gälla, enligt vad som angivits för det landet.

Tidigare fastställd svensk standard SS-EN 50341-2-1, utg 1:2022 med eventuella tillägg, ändringar och rättelser gäller ej fr o m 2025-10-28.

ICS 29.240.20

Denna standard är fastställd av SEK Svensk Elstandard,
som också kan lämna upplysningar om **sakinnehållet** i standarden.
Postadress: Box 1042, 172 21 Sundbyberg
Telefon: 08 - 444 14 00.
E-post: sek@elstandard.se. Internet: elstandard.se

Standarder underlättar utvecklingen och höjer elsäkerheten

Det finns många fördelar med att ha gemensamma tekniska regler för bl a mätning, säkerhet och provning och för utförande, skötsel och dokumentation av elprodukter och elanläggningar.

Genom att utforma sådana standarder blir säkerhetsfordringar tydliga och utvecklingskostnaderna rimliga samtidigt som marknadens acceptans för produkten eller tjänsten ökar.

Många standarder inom elområdet beskriver tekniska lösningar och metoder som åstadkommer den elsäkerhet som föreskrivs av svenska myndigheter och av EU.

SEK är Sveriges röst i standardiseringsarbetet inom elområdet

SEK Svensk Elstandard svarar för standardiseringen inom elområdet i Sverige och samordnar svensk medverkan i internationell och europeisk standardisering. SEK är en ideell organisation med frivilligt deltagande från svenska myndigheter, företag och organisationer som vill medverka till och påverka utformningen av tekniska regler inom elektrotekniken.

SEK samordnar svenska intressenters medverkan i SEKs tekniska kommittéer och stödjer svenska experters medverkan i internationella och europeiska projekt.

Stora delar av arbetet sker internationellt

Utformningen av standarder sker i allt väsentligt i internationellt och europeiskt samarbete. SEK är svensk nationalkommitté av International Electrotechnical Commission (IEC) och Comité Européen de Normalisation Electrotechnique (CENELEC).

Standardiseringsarbetet inom SEK är organiserat i referensgrupper bestående av ett antal tekniska kommittéer som speglar hur arbetet inom IEC och CENELEC är organiserat.

Arbetet i de tekniska kommittéerna är öppet för alla svenska organisationer, företag, institutioner, myndigheter och statliga verk. Den årliga avgiften för deltagandet och intäkter från försäljning finansierar SEKs standardiseringsverksamhet och medlemsavgift till IEC och CENELEC.

Var med och påverka!

Den som deltar i SEKs tekniska kommittéarbete har möjlighet att påverka framtida standarder och får tidig tillgång till information och dokumentation om utvecklingen inom sitt teknikområde. Arbetet och kontakterna med kollegor, kunder och konkurrenter kan gynnsamt påverka enskilda företags affärsutveckling och bidrar till deltagarnas egen kompetensutveckling.

Du som vill dra nytta av dessa möjligheter är välkommen att kontakta SEKs kansli för mer information.

SEK Svensk Elstandard

Box 1042
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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 50341-2-1

October 2022

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English Version

Overhead electrical lines exceeding AC 1 kV - Part 2-1: National Normative Aspects (NNAs) for Austria (based on EN 50341-1:2012)

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Ref. No. EN 50341-2-1:2022 E

SEK Svensk Elstandard SS-EN 50341-2-1, utg 2:2024

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European foreword

1 The Austrian National Committee is identified by the following address:

Austrian Electrotechnical Association
Standardization
Eschenbachgasse, 9
A - 1010 Vienna
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phone +43 1 587 63 73-0

Name of the relevant technical body: TK-L Starkstromfreileitungen und Verlegung von Energiekabeln (Overhead power lines)

2 The Austrian NC and its technical body TK-L “Overhead power lines” of Austrian Electrotechnical Association (OVE) prepared this Part 2-1 of EN 50341, listing the Austrian National Normative Aspects (NNA) under its sole responsibility, and duly passed it through the CENELEC and CLC/TC 11 procedures.

NOTE The Austrian NC also takes sole responsibility for the technically correct co-ordination of this EN 50341-2-1:2020 with EN 50341-1:2012. It performed the necessary checks in the frame of quality assurance/control. However, it is noted that this quality control was made in the framework of the general responsibility of a standards committee under the national laws/regulations.

3 This EN 50431-2-1, hereafter referred to as Part 2-1, is normative in Austria and informative in other countries.

4 This Part 2-1 shall be read in conjunction with EN 50341-1, hereafter referred to as Part 1. All clause numbers used in this NNA correspond to those of Part 1. Specific subclauses, which are prefixed “AT”, shall be read as amendments to the relevant text in Part 1. Any necessary clarification regarding the application of this NNA in conjunction with Part 1 shall be referred to the Austrian NC who will, in co-operation with CLC/TC 11, clarify the requirements.

When no reference is made in this NNA to a specific subclause, then Part 1 applies.

5 In case of “boxed values” defined in Part 1, amended values, (if any) which are defined in Part 2-1 shall be taken into account in Austria.

However, any “boxed value”, whether in Part 1 or in this Part 2-1, shall not be amended in the direction of greater risk in a Project Specification.

6 The National Austrian standards/regulations related to overhead electrical lines exceeding 1 kV AC are listed in 2.1 of this Part 2-1.

NOTE All national standards referred to in this Part 2-1 will be replaced by the relevant European Standards as soon as they become available and are declared by the austrian NC to be applicable and thus reported to the secretary of CLC/TC 11.

1 Scope

1.1 General

(A-dev) AT.1: A new overhead line is defined as the new construction of the totality of all conductors, their supports together with foundations, earthing grid, insulators, accessories and fittings used for the overground transport of electrical energy between two points A and B.

1.2 Field of application

(A-dev) AT.1: Stranded-conductors or cable structures with telecommunications components carried on the line that do not simultaneously function as earth wires or stranded conductors are subject to the provisions of Annex U.

2 Normative references, definitions and symbols

2.1 Normative references

(A-dev) AT.1: Normative references and other publications

Reference	*Title*
ÖNORM B 1990-1	*Eurocode - Basis of structural design - Part 1: Building construction - National specifications concerning ÖNORM EN 1990 and national supplements*
ÖNORM B 1991-1-4	*Eurocode 1: Actions on structures - Part 1-4: General actions - Wind actions - National specifications concerning ÖNORM EN 1991-1-4 and national supplements*
ÖNORM B 1992-1-1	*Eurocode 2 - Design of concrete structures - Part 1-1: General rules and rules for buildings - National specifications concerning ÖNORM EN 1992-1-1, national comments and national supplements*
ÖNORM B 1997-1-1	*Eurocode 7: Geotechnical design - Part 1: General rules - National specifications concerning ÖNORM EN 1997-1 and national supplements*
ÖNORM B 1997-1-3	*Eurocode 7 - Geotechnical design - Part 1-3: Pile foundations*
ÖNORM E 4007	*Electrical overhead lines; galvanized steel stranded conductors*
ÖNORM E 4101	*Electrical overhead lines; pin insulators type VHD and type VHD-G*
ÖNORM E 4102	*Electrical overhead lines; solid core line post insulators VKSt and VKS*
ÖNORM E 4104	*Electrical overhead lines; ball and socket; coupling dimensions*
ÖNORM E 4125	*Electrical overhead lines; ball and socket; IEC-coupling dimensions*
ÖNORM EN 1090-1	*Execution of steel structures and aluminium structures - Part 1: Assessment and verification of constancy of performance of steel components and aluminium components for structural use*
ÖNORM EN 1090-2	*Execution of steel structures and aluminium structures - Part 2: Technical requirements for steel structures*
ÖNORM EN 12929-1	*Safety requirements for cableway installations designed to carry persons - General requirements - Part 1: Requirements for all installations*
ÖNORM EN 1991-1-4	*Eurocode 1: Actions on structures - Part 1-4: General actions - Wind actions*
ÖNORM EN 1992-1-1	*Eurocode 2: Design of concrete structures - Part 1-1: General rules and rules for buildings*
ÖNORM EN 1993-1-1	*Eurocode 3: Design of steel structures - Part 1-1: General rules and rules for buildings*

ÖNORM EN 1997-1	*Eurocode 7: Geotechnical design - Part 1: General rules*
ÖNORM EN 1997-2	*Eurocode 7 - Geotechnical design - Part 2: Ground investigation and testing*
ÖNORM EN 61232	*Aluminium-clad steel wires for electrical purposes*
ÖVE EN 60383-1	*Insulators for overhead lines with a nominal voltage above 1 kV - Part 1: Ceramic or glass insulator units for AC systems - Definitions, test methods and acceptance criteria*
ÖVE EN 60383-2	*Insulators for overhead lines with a nominal voltage above 1000 V - Part 2: Insulator strings and insulator sets for a.c. systems - Definitions, test methods and acceptance criteria*
ÖVE/ÖNORM EN 60071-1	*Isulation co-ordination, Part 1: Definitions, principles and rules*
ÖVE ÖNORM EN 61109	*Insulators for overhead lines - Composite suspension and tension insulators for a.c. systems with a nominal voltage greater than 1 000 V - Definitions, test methods and acceptance criteria*
ÖVE ÖNORM EN 61952	*Insulators for overhead lines - Composite line post insulators for A.C. systems with a nominal voltage greater than 1 000 V - Definitions, test methods and acceptance criteria*
ÖVE/ÖNORM E 8383	*Power installations exceeding 1 kV AC*
ÖVE/ÖNORM EN 50110-1	*Operation of electrical installations - Part 1: General requirements (Part 2-100: National annexes)*
ÖVE/ÖNORM EN 50182	*Conductors for overhead lines - Round wire concentric lay stranded conductors*
ÖVE/ÖNORM EN 50189	*Conductors for overhead lines - Zinc coated steel wires*
ÖVE/ÖNORM EN 50522	*Earthing of power installations exceeding 1 kV a.c.*
ÖVE/ÖNORM EN 60865-1	*Short-circuit currents - Calculation of effects - Part 1: Definitions and calculation methods*
ÖVE/ÖNORM EN 61936-1	*Power installations exceeding 1 kV a.c. - Part 1: Common rules*
ÖVE-L 1	*Construction of overhead lines up to 1000 V*
OVE Directive R23-1	*Electrical, magnetic and electromagnetic fields in the frequency range from 0 Hz to 300 GHz Part 1: Limiting exposure of members of the public*
VbF	*Federal Decree on flammable liquids*
VEMF	*Federal Decree on electromagnetic fields*
DIN 48207	*Stranded conductors; laying of stranded conductors for overhead lines*