STN	Požiadavky na pripojenie generátorov s prúdom nad 16 A na fázu paralelne s distribučnou sieťou. Časť 2: Pripojenie na distribučnú sieť vysokého napätia (MV).	STN P CLC/TS 50549-2
		33 0123

Requirements for generating plants to be connected in parallel with distribution networks - Part 2: Connection to a MV distribution network

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. 05/15

Obsahuje: CLC/TS 50549-2:2015

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Úrad pre normalizáciu, metrológiu a skúšobníctvo SR, odbor SÚTN, 2015 Podľa zákona č. 264/1999 Z. z. v znení neskorších predpisov sa môžu slovenské technické normy rozmnožovať a rozširovať iba so súhlasom Úradu pre normalizáciu, metrológiu a skúšobníctvo SR.

TECHNICAL SPECIFICATION SPÉCIFICATION TECHNIQUE TECHNISCHE SPEZIFIKATION

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English Version

Requirements for generating plants to be connected in parallel with distribution networks - Part 2: Connection to a MV distribution network

Prescriptions relatives au raccordement de générateurs de plus de 16A par phase - Partie 2: Connexion au réseau de distribution MT Anforderungen für den Anschluss von Stromerzeugungsanlagen über 16 A je Phase - Teil 2: Anschluss an das Mittelspannungsverteilungsnetz

This Technical Specification was approved by CENELEC on 2014-09-15.

CENELEC members are required to announce the existence of this TS in the same way as for an EN and to make the TS available promptly at national level in an appropriate form. It is permissible to keep conflicting national standards in force.

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

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Contents

Page

Foreword		
Scope		
Normative references		
3 Terms and definitions		
4 Requirements on generating plants		
4.1 General	15	
4.2 Connection scheme	16	
4.3 Choice of switchgear	16	
4.4 Normal operating range	16	
4.5 Immunity to disturbances	18	
4.6 Active response to frequency deviation	21	
4.7 Power response to voltage variations and voltage changes	23	
4.8 EMC and power quality	29	
4.9 Interface protection		
4.10 Connection and starting to generate electrical power	35	
4.11 Active power reduction on set point		
4.12 Remote information exchange		
5 Conformance test procedure		
Annex A (informative) Interconnection requirements		
Annex B (informative) Remote information exchange		
Annex C (informative) Frequency stabilizing services		
C.1 General		
C.2 Frequency sensitive mode		
C.3 Power system stabilization		
C.4 Synthetic inertia		
Annex D (informative) Loss of Mains and overall power system security		
Annex E (informative) Examples of protection strategies		
E.1 Introduction	49	
E.1.1 General	49	
E.2 Example strategy 1		
E.3 Example strategy 2		
Annex F (normative) Abbreviations		
Bibliography		

Foreword

This document (CLC/TS 50549-2:2015) has been prepared by CLC/TC 8X "System aspects of electrical energy supply".

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

This Technical Specification relates to both future European Network Codes and current technical market needs. Its purpose is to give detailed description of functions to be implemented in products.

This Technical Specification is also intended to serve as a technical reference for the definition of national requirements where European Network Codes requirements allow flexible implementation. The stated requirements are solely technical requirements; economic issues regarding, e.g. the bearing of cost are not in the scope of this document.

CLC/TC 8X plans future standardization work, in order to ensure the compatibility of this Technical Specification with the evolution of the legal framework.

1 Scope

The purpose of this Technical Specification is to provide technical guidance on the requirements for generating plants which can be operated in parallel with a distribution network.

For practical reasons, this Technical Specification refers to the distribution system operator in case settings have to be defined and/or provided, even when these settings are to be defined and/or provided by another actor according to national and European legal framework.

NOTE 1 This includes European network codes and their national implementation, as well as further national regulations.

NOTE 2 Further national requirements especially for the connection to the distribution network and the operation of the generating plant can apply.

The requirements of this Technical Specification apply to all generating plants, electrical machinery and electronic equipment, irrespective of the kind of primary energy source and irrespective of the presence of loads in the producer's network that meet all of the following conditions:

- converting any primary energy source into AC electricity;
- connected to a MV distribution network;
- intended to operate in parallel with this distribution network under normal network operating conditions.

NOTE 3 Generating plants connected to a LV distribution network fall into the scope of EN 50438 (up to 16 A) and CLC/TS 50549-1 (above 16 A).

Unless stated differently by the DSO, a generating plant with a maximum apparent power up to 100 kVA can, as alternative to the requirements of this Technical Specification, comply with CLC/TS 50549-1. A different threshold may be defined by the DSO.

This Technical Specification defines connection requirements.

This Technical Specification recognizes the existence of National Standards, Network Codes, and specific technical requirements of the DSOs. These should be complied with.

Excluded from the scope are:

- the selection and evaluation of the point of connection;
- power system impact assessment;
- connection assessment;
- island operation of generating plants, both intentional and unintentional, where no part of the distribution network is involved;
- active front ends of drives feeding energy back into the distribution network for short duration;
- requirements for the safety of personnel as they are already adequately covered by existing European Standards.

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 60044-2, Instrument transformers — Part 2: Inductive voltage transformers (IEC 60044-2)

EN 60044-7, Instrument transformers — Part 7: Electronic voltage transformers (IEC 60044-7)

EN 60255-127, Measuring relays and protection equipment — Part 127: Functional requirements for over/under voltage protection (IEC 60255-127)

EN 61000-4-30, Electromagnetic compatibility (EMC) — Part 4-30: Testing and measurement techniques — Power quality measurement methods (IEC 61000-4-30)

EN 61869-3, Instrument transformers — Part 3: Additional requirements for inductive voltage transformers (IEC 61869-3)

IEC 60050, International Electrotechnical Vocabulary

koniec náhľadu – text ďalej pokračuje v platenej verzii STN