



Edition 1.1 2016-04 CONSOLIDATED VERSION

TECHNICAL REPORT



High-voltage direct current (HVDC) systems - Application of active filters

INTERNATIONAL ELECTROTECHNICAL COMMISSION

ICS 29.240.99 ISBN 978-2-8322-3332-0

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

HIGH-VOLTAGE DIRECT CURRENT (HVDC) SYSTEMS – APPLICATION OF ACTIVE FILTERS

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In this Redline version, a vertical line in the margin shows where the technical content is modified by amendment 1. Additions are in green text, deletions are in strikethrough red text. A separate Final version with all changes accepted is available in this publication.

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1 Scope

This technical report gives general guidance on the subject of active filters for use in high-voltage direct current (HVDC) power transmission. It describes systems where active devices are used primarily to achieve a reduction in harmonics in the d.c. or a.c. systems. This excludes the use of automatically retuned components.

The various types of circuit that can be used for active filters are described in the report, along with their principal operational characteristics and typical applications. The overall aim is to provide guidance for purchasers to assist with the task of specifying active filters as part of HVDC converters.

Passive filters are specifically excluded from this report.

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IEEE 519, IEEE Recommended Practices and Requirements for Harmonic Control in Electrical Power Systems





Edition 1.1 2016-04 CONSOLIDATED VERSION

FINAL VERSION

High-voltage direct current (HVDC) systems – Application of active filters



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