IEC/TR 61912-1

Edition 1.0 2007-08

TECHNICAL REPORT

RAPPORT TECHNIQUE

Low-voltage switchgear and controlgear – Overcurrent protective devices – Part 1: Application of short-circuit ratings

Appareillage à basse tension – Dispositifs de protection contre les surintensités – Partie 1: Application des caractéristiques de court-circuit

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INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

COMMISSION
ELECTROTECHNIQUE
INTERNATIONALE

PRICE CODE
CODE PRIX S

ICS 29.130

ISBN 2-8318-9273-2

CONTENTS

INTERNATIONAL ELECTROTECHNICAL COMMISSION

LOW-VOLTAGE SWITCHGEAR AND CONTROLGEAR – OVERCURRENT PROTECTIVE DEVICES –

Part 1: Application of short-circuit ratings

FOREWORD

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IEC 61912-1, which is a technical report, has been prepared by subcommittee 17B: Low-voltage switchgear and controlgear, of IEC technical committee 17: Switchgear and controlgear.

This edition cancels and replaces the first edition of IEC 61912, published in 2006, and corrigendum 1 (May 2006). The changes are only editorial.

The text of this technical report is based on the following documents:

Enquiry draft	Report on voting
17B/1547/DTR	17B/1564/RVC

Full information on the voting for the approval of this technical report can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all the parts of the IEC 61912 series, under the general title *Low-voltage switchgear and controlgear – Overcurrent protective devices*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the maintenance result date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

INTRODUCTION

Low-voltage equipment standards IEC 60947 and IEC 60439 currently include short-circuit ratings for products and assemblies respectively, defined in terms of the ability of the equipment to operate at a level of peak current, an r.m.s. current for a specified time and/or a level of current conditional upon a short-circuit protective device in series. In practice the correct application of the various short-circuit ratings needs to be fully understood by the circuit designer to avoid leaving a circuit or equipment with inadequate short-circuit protection. It is also useful to take full advantage of the capability of devices and systems to avoid over-engineering, with the consequent unnecessary additional cost.