BS ISO 1509:2024

BSI Standards Publication

# General purpose push-pull three-pole circuit-breakers for aircraft — Performance requirements

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# National foreword

This British Standard is the UK implementation of ISO 1509:2024.

The UK participation in its preparation was entrusted to Technical Committee ACE/6, Aerospace avionic electrical and fibre optic technology.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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International Standard

# ISO 1509

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# General purpose push-pull three-pole circuit-breakers for aircraft — Performance requirements

*Disjoncteurs tripolaires à bouton-poussoir d'usage courant utilisés à bord des aéronefs — Caractéristiques*

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# Foreword

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This document was prepared by Technical Committee ISO/TC 20, *Aircraft and space vehicles*, Subcommittee SC 1, *Aerospace electrical requirements*.

This second edition cancels and replaces the first edition (ISO 1509:1973), which has been technically revised.

The main changes are as follows:

— ambient temperature and altitudes have been updated;

— operation forces have been updated;

— time/current characteristics have been updated;

— mechanical shocks test have been updated;

— high voltage and insulation tests have been updated;

— tests of temperature rise and minimum and maximum limit of ultimate trip current have been updated;

— operating forces test have been updated;

— mechanical strength tests have been updated;

— overload and re-closure test have been updated.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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# Introduction

This document provides performance requirements of the general purpose push-pull three-pole circuit-breakers normal ratings up to and including 35 A for aircraft.

The purpose of this document are as follows:

a) To standardize the requirements for push-pull three-pole trip-free circuit-breakers that are physically and environmentally diversified.

b) To provide the applicable document for push-pull three-pole trip-free circuit-breakers.

In order to satisfy the purpose of this document, requirements such as those for physical, environmental and individual items are specified in accordance with the detail requirements that are issued individually.

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