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Earth-moving machinery — Electrical safety of machines utilizing electric drives and related components and systems

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Part 3: Particular requirements for self-powered machines



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Australasian Institute of Mining & Metallurgy
Australian Industry Group
Better Regulation Division — SafeWork NSW
Construction and Mining Equipment Industry Group
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Engineers Australia
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Preface

This Standard was prepared by the Standards Australia Committee ME-063, Earthmoving Equipment.

The objective of this document is to specify the particular safety requirements for the electrical equipment and its components incorporated in self-powered (utilizing on-board electric power sources) electrically-driven earth-moving machines (EMMs).

It is applicable to those machines using on-board voltages in the range of 50 V–36 kV AC r.m.s. at any frequency, and 75 V–36 kV DC including any repetition rate of pulsating DC intended for outdoor use.

Voltages occurring within devices are not considered to be on-board voltages and are thus not within its scope.

It is intended to be used in conjunction with AS 14990.1:2022, which gives general requirements for EMMs regardless of how they are powered. Requirements specific to externally-powered machines are given in AS ISO 14990.2:2022. It is possible to have an EMM that is both self-powered and externally powered (e.g. a battery powered machine having a built-in charger with power supply function), in which case AS ISO 14990.2:2022 is also applicable.

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