## INTERNATIONAL STANDARD

ISO 16750-3

Second edition 2007-08-01

# Road vehicles — Environmental conditions and testing for electrical and electronic equipment —

Part 3:

**Mechanical loads** 

Véhicules routiers — Spécifications d'environnement et essais des équipements électrique et électronique —

Partie 3: Contraintes mécaniques

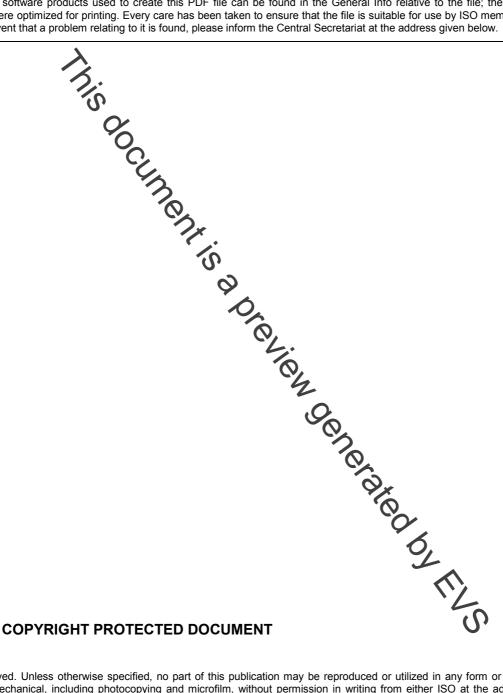


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#### **Foreword**

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in Maison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical control tees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires applying by at least 75 % of the member bodies casting a vote.

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

ISO 16750-3 was prepared by Technical Committee ISO/TC 22, Road vehicles, Subcommittee SC 3, Electrical and electronic equipment.

This second edition cancels and replaces the first edition (ISO 16750-3:2003), which has been technically revised.

Con Conordato of the ISO 16750 consists of the following parts, under the general title Road vehicles — Environmental conditions and testing for electrical and electronic equipment:

- Part 1: General
- Part 2: Electrical loads
- Part 3: Mechanical loads
- Part 4: Climatic loads
- Part 5: Chemical loads

### Road vehicles — Environmental conditions and testing for electrical and electronic equipment —

#### Part 3:

#### Mechanical loads

#### 1 Scope

This part of ISO 16750 applies to electric and electronic systems/components for road vehicles. This part of ISO 16750 describes the patential environmental stresses, and specifies tests and requirements recommended for the specific arounting location on/in the vehicle.

This part of ISO 16750 describes the mechanical loads.

#### 2 Normative references

The following referenced documents are interpolated for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 16750-1, Road vehicles — Environmental and testing for electrical and electronic equipment — Part 1: General

ISO 16750-4, Road vehicles — Environmental conditions and testing for electrical and electronic equipment — Part 4: Climatic loads

IEC 60068-2-6, Environmental testing — Part 2: Tests — Test ( Vibration (sinusoidal)

IEC 60068-2-14, Environmental testing — Part 2: Tests — Test N: Change of temperature

IEC 60068-2-29, Environmental testing — Part 2: Tests — Test Eb and guidance: Bump

IEC 60068-2-32, Environmental testing — Part 2: Tests — Test Ed: Free fatt

IEC 60068-2-64, Environmental testing — Part 2: Test methods — Test Fh: Wibration, broad-band random (digital control) and guidance

#### 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 16750-1 apply.