

ICS 43.040
CCS T35



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/Z 42285-2022

**Road vehicles - ASIL determination guidelines for electrical and
electronic system**

道路车辆 电子电气系统ASIL等级确定方法指南

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Foreword

This document was issued on 30 December 2022 by the State Administration for Market Regulation and the Standardization Administration of the People's Republic of China, and has been in force since 30 December 2022.

It is the first edition of this standard.

Classification: ICS 43.040, CCS T35.

1 Scope

GB/Z 42285-2022 is the Chinese national standard on road vehicles - asil determination guidelines for electrical and electronic system, in the field of road vehicles engineering. The /Z suffix marks it as a guiding technical document: it does not prescribe requirements that can be certified against, but sets out the technique, the method or the state of the art that the standards bodies recommend following. It was issued on 30 December 2022 by the State Administration for Market Regulation; Standardization Administration of China. As a guiding technical document it carries no separate date of entry into force: it applies from publication. Classification: ICS 43.040, CCS T35. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

About this edition

GB/Z 42285-2022 is the first edition of this standard. It was issued on 30 December 2022 and has been in force since 30 December 2022.

There is no earlier edition to compare it with, so a specification that has to refer to this

subject can only cite GB/Z 42285-2022 itself.

The interval between issue and effect is the transition period. It exists so that producers, laboratories and buyers can requalify products, revise procedures and use up documentation before the new text becomes the one that applies. The date on this page is the official one from the record of the Standardization Administration.

Classification and status

GB/Z 42285-2022 is classified under ICS 43.040, in the field of road vehicle engineering. ICS is the International Classification for Standards, the same scheme used by ISO and by the national bodies of most countries, which is what allows a Chinese standard to be placed beside its foreign counterparts on subject rather than on number.

Its Chinese Standard Classification code is CCS T35. CCS is the domestic scheme, a letter for the sector and two digits for the subject within it, and it is the code by which the standard is filed and searched in China.

The GB/Z prefix marks a guiding technical document, which is a third category beside the mandatory GB and the recommended GB/T. It is issued when a subject is moving too fast, or is too varied in practice, to be settled in a standard: it records the direction the Chinese standardization system intends to take and the vocabulary it intends to use. It carries no compliance obligation and does not become binding when a contract cites it - which is also why GB/Z 42285-2022 is worth reading early, before the requirements it anticipates arrive as a standard.

How a Chinese national standard is set out

Chinese national standards are drafted to the rules of GB/T 1.1, which fixes the order in which a standard is set out. The document opens with a foreword recording the issuing bodies, the relationship to any previous edition and the technical committee responsible for it. Clause 1 is the scope. Clause 2 lists the normative references - the other standards that have to be applied together with this one, and without which its requirements cannot be met. Clause 3 gives the terms and definitions. The technical clauses follow: the requirements themselves, the test or measurement methods by which conformity is established, the inspection rules that say how a lot is sampled and judged, and, for a product standard, the provisions on marking, packaging, transport and storage. Annexes, normative or informative, come last.

GB/Z 42285-2022 runs to 40 pages in the English translation. What is delivered is the complete document in that order: every clause, every table, every figure and every annex of the Chinese original, with the same numbering, so that a reference to a clause number in a contract or a test report points to the same place in both languages.

About this English translation

The English edition of GB/Z 42285-2022 is a full translation of the official Chinese text, not a summary, an abstract or a machine rendering left unchecked. Clause and subclause numbers, table and figure numbers and annex letters are those of the original, because they are what a specification, a purchase order or a test report cites.

Technical terms are translated against the vocabulary standards of the same field, so that a term used in GB/Z 42285-2022 reads the same way as in the other Chinese standards it is used beside. Where a term has an established English form in an ISO or IEC document on the same subject, that form is used; where China's term has no foreign counterpart, it is translated literally and the Chinese is kept alongside it rather than replaced by an approximation.

Quantities, units and symbols are carried over unchanged. Chinese standards use SI, so a value in the translation is the value in the original document, not a conversion, and a limit read from the English text is the limit that will be applied by a Chinese inspection body reading the Chinese one.

This page is compiled from the official publication record: the standard number and both titles, the issuing bodies, the dates of issue and effect, the edition it replaces, and the ICS and CCS classification. The requirements, limits, tables and test conditions are in the document itself.