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

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**Adjustable speed electrical power drive systems - Part 7-302:
Generic interface and use of profiles for power drive systems -
Mapping of profile type 2 to network technologies**

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1. Structure and Drafting Rules of Standardization Documents"

Drafting.

This document is part 7-302 of GB/T 12668 "Speed Adjustable Electric Drive System". GB/T 12668 has released the following parts.

---Part 1. General requirements for the rated value of low-voltage DC speed-regulating electric drive systems;

---Part 2. General requirements for the rated value of low-voltage AC variable frequency electric drive systems;

---Part 3. Electromagnetic compatibility requirements and specific test methods;

---Part 4. Generally require AC voltage above 1000V but not more than 35kV AC speed control electric drive system rating

Value provision;

---Part 5-1. Safety requirements for electrical, thermal and energy;

---Part 5-2. Safety requirements function;

---Part 6. Guidelines for determining the type of load working system and the corresponding current rating;

---Part 701. General interface and use specification interface definition of electric drive system;

---Part 7-201. General interface and use specification of electric drive system Type 1 specification description;

---Part 7-301. General interface and use specification of electric drive system, type 1 specification corresponds to network technology;

---Part 7-302. General interface and use specification of electric drive system, type 2 specification corresponds to network technology;

---Part 8. Voltage specification of power interface;

---Part 9-1. Eco-design of electric drive system, motor starter, power electronic equipment and its transmission application adopts extension

Product Law (EPA) and Semi-Analytical Model (SAM) formulate general requirements for energy efficiency standards for electric drive equipment;

---Part 9-2. Eco-design of electrical drive systems, motor starters, power electronic equipment and their drive applications

Energy efficiency indicators of the system and motor starters.

The translation method used in this document is equivalent to IEC 61800-7-302.2015, Part 7-302 of Speed Control Electric Drive System. Electric Drive

The general interface and usage specification of the system, type 2 specification corresponds to the network technology.

This document was proposed by the China Electrical Equipment Industry Association.

This document is under the jurisdiction of the National Power Electronic System and Equipment Standardization Technical Committee (SAC/TC60).

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0.1 General

GB/T 12668 provides a series of general specifications for speed-regulating electric drive systems. It is proposed to be composed of the following parts.

---Part 1. General requirements for the rated value of low-voltage DC speed-regulating electric drive systems. The purpose is to transmit

Instead of defining the entire DC electric drive system based on the functional units of each subsystem.

---Part 2. General requirements for the rated value of low-voltage AC variable frequency electric drive systems. The purpose is to pass the electric drive train

The performance of the system defines the entire AC electric drive system, not based on the functional units of each subsystem.

---Part 3. Electromagnetic compatibility requirements and specific test methods. The purpose is to specify the electromagnetic compatibility of the electric drive system

Require.

---Part 4. Generally require AC voltage above 1000V but not more than 35kV AC speed control electric drive system rating

Value provision. The purpose is to give the characteristics of the converter, the topology of the converter and its relationship with the entire AC electric drive system.

relation.

---Part 5-1. Safety requirements for electrical, heat and energy. The purpose is to specify the electrical

Gas, heat and energy safety requirements.

---Part 5-2.Safety requirements function. The purpose is to stipulate that from the perspective of functional safety, the electric drive system (safety phase

Related) design development, integration and verification.

--- Part 6.Guidelines for determining the type of load working system and the corresponding current rating. The purpose is to specify the speed control electric drive system

In particular, the rated value of its basic drive module provides an alternative method.

---Part 701.General interface and use specification interface definition of electric drive system. The purpose is to specify the electric drive system

The application specification, and through the use of the general interface model to illustrate its image in the current communication system.

---Part 7-201.General interface and use specification of electric drive system Type 1 specification description. The purpose is to establish electrical transmission

Type 1 specification for dynamic systems. Type 1 specifications can be mapped to different communication network technologies.

---Part 7-202.General interface and use specification of electric drive system Type 2 specification description. The purpose is to establish electrical transmission

Type 2 specification for dynamic systems. Type 2 specifications can be mapped to different communication network technologies.

---Part 7-203.General interface and use specification of electric drive system Type 3 specification description. The purpose is to establish electrical transmission

Type 3 specification for dynamic systems. Type 3 specifications can be mapped to different communication network technologies.

---Part 7-204.General interface and use specification of electric drive system Type 4 specification description. The purpose is to establish electrical transmission

Type 4 specification for dynamic systems. Type 4 specifications can be mapped to different communication network technologies.

---Part 7-301.General interface and use specification of electric drive system Type 1 specification corresponds to network technology. The purpose is

Establish the mapping relationship between Type 1 specifications and different network technologies.

---Part 7-302.General interface and use specification of electric drive system Type 2 specification corresponds to network technology. The purpose is

Establish the mapping relationship between Type 2 specifications and different network