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

GB/T 17564.2-2013

Replacing GB/T 17564.2-2005

**Standard data element types with associated classification
scheme for electric components -- Part 2: EXPRESS dictionary
schema**

电气元器件的标准数据元素类型和相关分类模式 第2部分：EXPRESS字典模式
(English Translation)

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Foreword

GB/T 17564 "Standard data element types of electrical components and associated classification scheme" is divided into the following sections.

--- Part 1. definition of principles and methods;

Part --- Article 2. EXPRESS dictionary mode;

--- Part 3. Maintenance and certification procedures;

Part --- Chapter 4. IEC standard data element types, component classes and terms of reference set;

Part --- Article 5. EXPRESS dictionary schema extensions.

This section GB/T Part of 217,564.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This section uses the translation method is equivalent to using IEC 61360-2:2012 "Standard data element types of electrical components and associated classification scheme Part 2. EXPRESS dictionary mode. " Consistency correspondence between this part of international documents and normative references of our files are as follows.

--- GB/T 15273.1-1994 Information processing bit single-byte coded graphic character sets - Part 1. Latin alphabet (ISO/IEC 8859-1. 1987, IDT)

--- GB/T 4880.1-2005 Language Name Code Part 1. 2-letter code (ISO 639-1:2002, MOD)

--- GB/T 4880.2-2000 Language Name Code Part 2. 3 letter code (ISO 639-2:1998, EQV)

--- GB/T 4880.3-2009 Language Name Code - Part 3. All languages \u200b\u200b3 letter code (ISO 639-3:2007, IDT)

--- GB/T 17645.26-2000 Industrial automation systems and integration - Parts library - Part 26. Information supplier identification (ISO 13584-26:1999, EQV)

--- GB/T 17645.42-2001 Industrial automation systems and integration - Parts library - Part 42. Description methodology. zero configuration Member family methodology (ISO 13584-42:1998, IDT) this Part replaces GB/T 17564.2-2005 "Standard data element types of electrical components and associated classification scheme - Part 2.

EXPRESS dictionary mode. " this portion of the GB/T 17564.2-2005 comparison, the main changes are as follows.

- 1) increasing the number of terms and definitions;
- 2) In the dictionary mode chapter, added "references to other dictionaries" and "dictionary identifies" two;
- 3) increased public dictionary "class_constraint_schema" and "item_class_case_of_schema" two chapters (ie Chapter 7 and Chapter 8);
- 4) delete the last version in Chapter 7, "Template";
- 5) A "(normative) Value Format" and Appendix.

This information structure in part by the National Electrical documentation and graphical symbols Standardization Technical Committee (SAC/TC27) and focal points.

This section drafted by. China Electronics Standardization Institute, Beijing Institute of radio measurements Airlines, China National Institute of Standardization.

1 Scope

This section provides a formal model of data representation in order to provide the means for the computer can recognize such data expression and exchange.

The purpose of this section is to provide a common information model of IEC/SC3D and

ISO TC184/SC4 work in order to achieve the system dictionary System is able to meet the two technical committees handling standard data.

The scope of this section is based on the public GB/T 17564.1 and two basic standard range of the associated portion formed to develop ISO 13584-42 Total ISO/IEC dictionary mode.

EXPRESS model gives the two common forms of standard model and to facilitate coordination of the two standards.

GB/T 17564.2 is the primary standard, ISO 13584-42 adopted GB/T 17564.2 informative appendix EXPRESS model.

In some, by independent public EXPRESS model allows to define, GB/T 17564.1 methodology section defines the autonomous definition limit.

This section applies to the dictionary definition of the system to achieve two optional selectable modes. Each selectable mode is called consistency classes.

--- ISO 13584_IEC 61360_dictionary_schema2 predetermined data element type definitions associated with the use of classification model Technical data element types of modeling and exchange, the model constitutes consistency class IEC 61360 Part 1.

--- ISO 13584_IEC 61360_language_resource_schema provide resources to allow different language strings. due to it is extracted from the dictionary mode, so it can be used in other modes. It is largely based on ISO 10303-41:2000 the support_resource_schema basis, it can be seen as an extension. When using a multi-language, allowing the entire exchange Context (physical file) in a non-specific language often quoted.

When and GB/T 16656.21 used together, each mode defines a single exchange format.

Class 1 conformance interchange format is fully compatible with the GB/T 17645 series of standards.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 17564.1.2011 Electrical Project Standard data element types with associated classification scheme - Part 1. Definitions, principles and square Method (IEC 61360-1:2009, IDT) GB/T 16656.11.2010 Industrial automation systems and integration - Product data representation and exchange - Part 11. Description methods.

EXPRESS language reference manual (ISO 10303-11:2004, IDT) GB/T 16656.21.2008 Industrial automation systems and integration - Part 21 - Product data representation and

exchange. Implementation methods.

Exchange text encoding file structure (ISO 10303-21:2002, IDT) Standard data element types with associated classification scheme for electric components IEC 61360-DB - Part 4. Standard data element types and component IEC reference collection (Standard data element types with associated classification scheme for electric components-Part 4. IEC reference collection of standard data element types and component classes) ISO/IEC 10646-1 Information technology - Universal Multiple-Octet Coded Character Set (UCS) - Part 1. Structure and Multilingual Plane [Information technology-Universal Multiple-Octet Coded Character Set (UCS) -Part 1. Architecture and Basic Multilingual Plane]