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# NATIONAL STANDARD OF THE

# PEOPLE'S REPUBLIC OF CHINA

# GB/T 21207.2-2014

## Low-voltage switchgear and controlgear -- Device profiles for networked industrial devices -- Part 2: Root device profiles for starters and similar equipment

低压开关设备和控制设备 入网工业设备描述 第2部分：起动器和类似设备的根设备描述

**(English Translation)**

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## Foreword

GB/T 21207 "Low-voltage switchgear and control equipment for networked industrial devices" currently consists of the following two parts.

--- Part 1. General preparation device description;

--- Part 2. Root device starters and similar equipment description.

This section is GB/T Part of 221,207.

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

This section uses the translation method is equivalent to using IEC 61915-2:2011 "Low-voltage switchgear and control equipment for networked industrial devices Part 2. Root device starters and similar equipment description. " Consistency correspondence between this part of international documents and normative references of our files are as follows.

--- GB 14048.1-2012 Low-voltage switchgear and control equipment Part 1. General (IEC 60947-1:2011, MOD).

This section do the following editorial changes.

--- Remove 3.1, adjusted subsequent provisions of resolution;

--- The 3.2 to 3.1, and adding the introductory phrase;

--- The 3.3 to 3.2, and add introductory phrase.



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This part is proposed by the China Electrical Equipment Industrial Association.

The low-voltage electrical part by the National Standardization Technical Committee (SAC/TC189) centralized.

This section is responsible for drafting unit. Shanghai Electric Apparatus Research Institute, Shanghai Electric Technology Co., Ltd. Electric Division.

Participated in the drafting of this section. Changshu Switchgear Manufacturing Co., Ltd., Shanghai Electric Equipment detection.

## Introduction

This section follows and the use of GB/T 21207.1-2014 "Low-voltage switchgear and control equipment for networked industrial devices 1 Part I. Principles and framework for the preparation of General device description "provisions. This part of the motor starters and similar equipment defines a set of common functions (Data and performance), allowing system designers, system integrators and maintenance personnel need to use special tools which can be configured to operate scanning Said based devices.

This section manufacturers and other organizations to provide a common set of functional framework, to indicate its networking equipment. Manufacturer or other organization You can use the root device description to increase manufacturer-specific extensions.

Low-voltage switchgear and control equipment Networked industrial devices Part 2. Root device description starters and similar equipment

## 1 Scope

GB/T 21207 in this Part is divided into starters and similar equipment provides root device as described GB/T 21207.1-2014 defined, Standard relates to the following products.

--- Electromechanical contactors and motor starters (including motor protection) (GB 14048.4-2010);

--- AC semiconductor motor controllers and starters (IEC 60947-4-2:2011);

--- Non-motor loads AC semiconductor controllers and contactors (IEC 60947-4-3:1999);

--- Control and protective switching devices (or equipment) (CPS) (GB 14048.9-2008);

--- Rotary motor mounted in thermal protection (PTC) control unit (IEC 60947-8:2003).

## 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.



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GB/T 21207.1-2014 Low-voltage switchgear and control equipment for networked industrial devices - Part 1. Equipment description preparation General (IEC 61915-1:2007, IDT) IEC 60947-1:2011 Low-voltage switchgear and control equipment Part 1. General (Low-voltageswitchgearandcon-trolgear-Part 1. Generalrules)

### 3.1 Terms and Definitions

GB/T 21207.1-2014 and as defined in the following terms and definitions apply to this document.

3.1.1

Built - in thermal protection A specific portion (called a protected member) thermal protection system application protection to prevent rotation of the motor due to the particular conditions of thermal overload and lead from the temperature is too high, the thermal protection system of all or part of a thermal device (detector or heat protection) installed inside the motor.

**NOTE:** Modify the IEC 60947-8:2003, Definition 3.1.

3.1.2

Thermal protection systems thermalprotectionsystem Rotating electrical machines used to ensure the normal operation of the thermal protection system, with one (or more) heat detectors and a control system implementation, or implemented with one (or more) thermal protector.

**NOTE:** Modify the IEC 60947-8:2003, the definition of 3.2.

3.1.3

Heat detector thermaldetector Only the temperature sensitive electrical insulating device (elements), when the temperature reaches the set value, generating a switching operation in the control system.



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