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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 25020.1-2025

Replacing GB/T 25020.1-2010

Pole for overhead contact system of electrified railways - Part 1: Steel pole

电气化铁路接触网支柱 第1部分：钢支柱

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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 for standardization documents" Drafting is required.

This document is Part 1 of GB/T 25020 "Electrified Railway Contact Network Pillar". GB/T 25020 has been published in the following parts. --Part 1: Steel pillars.

This document replaces GB/T 25020.1-2010 "Electrified railway overhead contact network steel pillars Part 1: Lattice pillars", GB/T 25020.3-2016 "Electric railway overhead contact network steel pillars Part 3: Annular steel tube pillars" and GB/T 25020.4-2016 "Electric Railway Catenary Steel Pillars Part 4: H-Shaped Pillars", this document revise and consolidate GB/T 25020.1-2010, GB/T 25020.3-2016 and GB/T 25020.4-2016, compared with the above documents, in addition to structural adjustments and editorial changes, the main technical The technical changes are as follows.

a) Added technical requirements for steel plates (see 5.2.1.2);

b) Added technical requirements for angle steel (see 5.2.1.3);

c) Added technical requirements for H-shaped steel (see 5.2.1.4);

d) The ambient temperature requirements for steel shearing and cutting have been changed (see 5.3.2.5, 5.3.1.2 of GB/T 25020.1-2010, GB/T 25020.3-2016, 5.3.2.2, GB/T 25020.4-2016, 5.3.2.3);

e) The technical requirements for coating surface quality have been changed (see 5.3.5.1, 5.4.2.1 of GB/T 25020.1-2010, GB/T 25020.3- 2016, 5.5.1, GB/T 25020.4-2016, 5.4.1.2);

f) The technical requirements for coating thickness have been changed (see Table 1, 5.4.4.1 of GB/T 25020.1-2010, GB/T 25020.3-2016 GB/T 25020.4-2016, 5.4.3; GB/T 25020.4-2016, 5.4.1.5);

g) The technical requirements for the overall dimensions of components have been changed (see Table 2, Table 3, Table 4, Table 3 of GB/T 25020.1-2010, Table 3 of GB/T 25020.3- 2016, Table 3 of GB/T 25020.4-2016);

h) The requirements for factory inspection batches have been changed (see 7.2.3, 7.1.2 of GB/T 25020.1-2010, GB/T 25020.3-2016 GB/T 25020.4-2016, 7.1.2);

i) The qualification determination method has been changed (see 7.2.4, 7.3.4, 7.1.4, 7.2.4 of GB/T 25020.1-2010, GB/T 25020.3- 2016, 7.1.4, 7.2.4, GB/T 25020.4-2016, 7.1.4, 7.2.4)

j) The requirements for type inspection conditions have been changed (see 7.3.1, 7.2.1 of GB/T 25020.1-2010, GB/T 25020.3-2016 GB/T 25020.4-2016, 7.2.1);

k) The model of lattice support columns has been changed (see Table A.1, 4.1 of GB/T 25020.1-2010);

l) Added the requirements for the bearing capacity test bending moment of lattice columns in the direction parallel to the line (see Table A.2);

m) The model of H-shaped support has been changed (see Table A.4, 4.1 of GB/T 25020.4-2016);

n) The tapered steel tube support type has been deleted (see Table 2 of GB/T 25020.3-2016);

o) The requirements for paint application have been deleted (see 5.4.6 of GB/T 25020.3-2016 and 5.4.2 of GB/T 25020.4-2016).

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

This document was proposed and coordinated by the National Technical Committee for Standardization of Rail Transit Electrical Equipment and Systems (SAC/TC 278).

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The previous versions of this document and the documents it replaces are as follows.
--GB/T 25020.1-2010;

--GB/T 25020.3-2010, first revised in 2016;

--GB/T 25020.4-2010, first revised in 2016.

Introduction

Electrified railway contact network pillars are divided into steel pillars and concrete pillars according to their materials. In order to unify technical requirements and enhance versatility, GB/T 25020 "Electrified Railway Contact Network Pillars" provides requirements and guidelines for contact network pillars and is intended to consist of two parts.

-- Part 1: Steel pillars. The purpose is to specify the classification, technical requirements, test methods, inspection and Rules, etc.

-- Part 2: Concrete pillars. The purpose is to specify the classification, technical requirements, test methods and other requirements of concrete pillars for electrified railway overhead contact lines. Laws, inspection rules, etc.

Electrified railway overhead wire support Part 1: Steel Support

1 Scope

This document specifies the classification and representation methods, technical requirements, test methods, inspection rules, and markings of steel pillars for electrified railway contact networks.

And product certification, storage and transportation.

This document is applicable to steel pillars of electrified railway contact networks, and shall be used as a reference for similar pillars used in urban rail transit.

2 Normative references

GB/T 41

GB/T 95

GB/T 97.1

GB/T 470

GB/T 699

GB/T 700

GB/T 706

GB/T 709

GB/T 711

GB/T 1591

GB/T 2694-2018

GB/T 3098.1

GB/T 3098.2

GB/T 3274

GB/T 5117

GB/T 5118

GB/T 5267.3

GB/T 5293

GB/T 5780

GB/T 5782

GB/T 6170

GB/T 8110