

ICS 29.160.30

CCS K22



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

GB/T 12973-2013

Replacing GB/T 12973-1991

Dimensions for commutators and slip-rings

换向器与集电环尺寸

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Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules. This standard replaces GB/T 12973-1991 "commutator and the collecting ring size," compared with the GB/T 12973-1991, in addition to editorial Modify, mainly technical changes as follows:

--- The "outside diameter less than 50mm person" to "outside diameter less than 250mm persons" (see this standard 2.1, the 1991 version of the standard chapter 2). The standard proposed by China Electrical Equipment Industrial Association. The standard rotary motor by the National Standardization Technical Committee (SAC/TC26) centralized. This standard is drafted by: Shanghai Electrical Apparatus Research Institute (Group) Co., Ltd., Shanghai Electric System Energy Engineering Technology Research Center Ltd., Shandong Qilu Motor Manufacturing Co., Ltd., Shandong Huaneng Power Electric Group Co., Ltd., Zhejiang Jinlong Electric Corp., Xi'an Tech Full Simo Motor Co., Ltd., Taizhou Fidelity Electrical Co., Ltd. Units involved in the drafting of this standard. Xiangtan Electric Co., Ltd. Tellhow Shenyang Electric Co., Ltd., Dalian Riqian Motor Co., Ltd., Yang Motor Co., Ltd. Hainan. Drafters of this standard. Gu Weidong, Chen Lin, Wang swan, Wude Zhong, Wang Qingdong, leaf, Wujian Bing, ZHENG ground. Commutator and the collecting ring size

1 Scope

GB/T 12973-2013 is the Chinese national standard on dimensions for commutators and slip-rings, in the field of electrical engineering. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 17 December 2013 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 10 May 2014. Classification: ICS 29.160.30, CCS K22. 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.

This standard specifies the outer diameter of the commutator, trapezoidal commutation sheet materials as well as the height of the outer diameter of the collector ring. This standard applies to rotating electrical commutator and the collecting ring.

2 Nominal size

Well finished commutator outer diameter

2.1 nominal size Well finished commutator OD nominal size (in mm) of the following values should be selected R20 series.

5,5.6,6.3,7.1,8,9,10,11.2,12.5,14,16,18,20,22.4,25,28,31.5,35.5,40,45,50,56,63,71,80,90,100,112,125,140,160,180,200,224,250,280,315,355,400,450,500,560,630,710,800,900,1000,1120,1250,1400,1600,1800,2000,2240,2500,2800,3150. Outside diameter less than 250mm who, if necessary intermediate values, the values should be selected R40 series.

2.2 trapezoid height of the segments of raw materials Trapezoidal sheet material change to the height (in mm) should give priority to choose from the R20 series of numerical values.

10,11.2,12.5,14,16,18,20,22.4,25,28,31.5,35.5,40,45,50,56,63,71,80,90,100,112,125,140,160,180,200. If you need intermediate values, the values should be selected R40 series. Well finished

2.3 collector ring outside diameter nominal size Well finished collecting ring diameter nominal size (in mm) of the following values should be selected R20 series.

5,5.6,6.3,7.1,8,9,10,11.2,12.5,14,16,18,20,22.4,25,28,31.5,35.5,40,45,50,56,63,71,80,90,100,112,125,140,160,180,200,224,250,280,315,355,400,450,500,560,630,710,800,900,1000,1120,1250,1400,1600,1800,2000,2240,2500.