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

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**General specification for low voltage three phases flameproof
induction motor for coal mine
(English Translation)**

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MT Forward

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1 Scope

This standard specifies the safety performance requirements, test methods and inspection rules for low voltage three phases flameproof induction motor for coal mine.

This standard is applicable to motor used in coalmine shaft, rated voltage of 1140V and potential methane explosion (hereinafter referred to as motor).

2 Normative References

The following normative documents contain provision which, through reference in this text, constitute provisions of this standard. For dated reference, the subsequent amendments (excluding amending error in the text) or revisions of these publications do not apply. However, all parties reaching an agreement according to this standard are encouraged to study whether the latest edition of the normative document is applicable. For undated references, the latest edition of the normative document referred to applies.

GB/T 191 Packaging-Pictorial Marking for Handling of Goods

GB/T 228 Metallic materials - Tensile testing at ambient temperature

GB 755 General Specifications for Rotary Electrical Machines

GB/T 1032 Test Procedure for Three-phase Induction Motors

GB/T 1410 Methods of Test for Volume Resistivity and Surface Resistivity of Solid Electrical Insulating Materials

GB/T2423.4 Basic Environmental Testing Procedures for Electric and Electronic Products - Test Db. Damp Heat, Cyclic"

GB 13813 Testing Method and Judging Rule of Safety to Friction Spark of
Metallic Material for Coal Mine

GB 3836.1-2000 Electrical Apparatus for Explosive Gas Atmospheres - Part

1. General Requirements

GB 3836.2-2000 Electrical Apparatus for Explosive Gas Atmospheres - Part

2. Flameproof Enclosure "d"

GB 3836.3-2000 Electrical Apparatus for Explosive Gas Atmospheres - Part

3. Increased Safety "e"

GB/T 4942.1 Classification of Degrees of Protection Provided by Enclosures for Rotating
Machines

GB/T 10111 Generation of Random Numbers and Procedures Applied to

6.3.1 Type inspection shall be carried out when there is one of the following cases.

- a) Trial manufacture and type evaluation of new product or old product which is transferred production;
- b) After formal production, if there is significant changes such as structure, material and process which may affect the product performance;
- c) Every five years under normal production;
- d) The production is resumed after a suspension of 2 years;
- e) There is significant difference between the results of ex-factory inspection and last type inspection;
- f) Type inspection is required by the state quality supervision organization or the safety production supervision organization.

6.3.2 The items of type inspection shall comply with those specified in Table 7.

6.3.3 Sampling. according to GB/T 10111. The sampling cardinal number is 10 sets. The sampling quantity is at least 2 sets.

6.3.4 Judgment rule. If there is one sample-item failing to pass the inspection, then the batch of products will be judged as unqualified.

6.3.5 The products must be inspected by a quality supervision and inspection center for explosion-proof safety products designated by the State. And they shall not be manufactured until "explosion-proof certificate" and "coal mine safety sign" are obtained.

7 Packing, Transport And Storage

7.1

The motor shall be packed when leaving the factory. The outer wall of packing box shall have visible words and marks which include.

- a) Receiving organization and its address;
- b) Model and name of product;
- c) Size and total mass of packing box;
- d) Marks of "handle with care" and "keep dry" stated in GB/T 191;
- e) Name and address of manufacturer;
- f) Executive standard number of the product.

7.2 The documents accompanied with the products include.

- a) Packing list;
- b) Product certificate;
- c) Copy of safety sign certificate;
- d) Operating instructions.

7.3

The packing box shall not be intensely bumped and vibrated during transport.

And it shall avoid the attack of rain and snow.

7.4

The motor shall be stored at a ventilated warehouse free of any rain and snow.

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