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# 防爆合格证

证 号：GYJ26.1012U

制 造 商 **MINCO PRODUCTS INC.**

(地址：7300 Commerce Lane NE Minneapolis, MN 55432 United States of America)

产 品 名 称 定子绕组电阻温度检测器

型 号 规 格 **B217137**

防 爆 标 志 **Ex eb IIC Gb**  
**Ex ia IIC Ga**

产 品 标 准 /

图 样 编 号 **B217137**

经图样及技术文件的审查和样品检验，确认上述产品符合下列标准：

**GB/T 3836.1-2021,GB/T 3836.3-2021,GB/T 3836.4-2021**

特颁发此证。

本证书有效期：2026年01月08日至2031年01月07日

- 备注
1. 型号规格说明见本证书附件。
  2. 证书编号后缀“U”表明本证书具有限制条件，详见本证书附件。
  3. 产品使用注意事项见本证书附件。
  4. 电气参数见本证书附件。

批 准

上海仪器仪表自控系统检验测试所有限公司  
国家级仪器仪表防爆安全监督检验站

颁 发 日 期 二 〇 二 六 年 一 月 八 日

本证书仅对与认可文件和样品一致的产品有效。

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# EXPLOSION PROTECTION CERTIFICATE OF CONFORMITY

Cert No. GYJ26.1012U

**Manufacturer** MINCO PRODUCTS INC.  
(Address:7300 Commerce Lane NE Minneapolis, MN 55432 United States of America)

**Product** Resistance Temperature Detector for Stator Windings

**Model** B217137

**Ex marking** Ex eb IIC Gb  
Ex ia IIC Ga

**Product standard** /

**Drawing number** B217137

The product was found to comply with the following standard(s):

GB/T 3836.1-2021,GB/T 3836.3-2021,GB/T 3836.4-2021

**Valid until:** 2031.01.07

**Remarks**

- 1.The model designation is specified in the attachment(s) to this certificate.
- 2.The symbol "U" placed after the certificate number denotes schedule of limitations, which are specified in the attachment to this certificate.
- 3.The conditions for use are specified in the attachment(s) to this certificate.
- 4.The electrical parameters are specified in the attachment(s) to this certificate.

## Approval

Shanghai Inspection and Testing Institute of  
Instruments and Automation Systems Co., Ltd.  
National Supervision and Inspection Center for  
Explosion Protection and Safety of Instrumentation  
Date of issue 2026.01.08

This Certificate is valid for products compatible with the documents and samples approved by NEPSI.



(GYJ26.1012U)

(Attachment I)

## GYJ26.1012U 防爆合格证附件 I

产品符合下列标准:

GB/T 3836.1-2021 爆炸性环境 第1部分: 设备 通用要求

GB/T 3836.3-2021 爆炸性环境 第3部分: 由增安型“e”保护的的设备

GB/T 3836.4-2021 爆炸性环境 第4部分: 由本质安全型“i”保护的的设备

### 1. 防爆合格证限制使用条件

防爆合格证号后缀“U”表明本证书具有限制条件:

1.1 产品为 Ex 元件, 不得单独在爆炸性环境中使用, 当合并入 Ex 设备或系统时需要附加考虑。温度组别见 2.2

1.2 使用工作温度范围为-50°C~+180°C。

### 2. 产品使用注意事项

2.1 电气参数:

2.1.1 增安型:  $U \leq 20V$ ,  $I \leq 10mA$ ,  $P \leq 1.5W$ 。

2.1.2 本安型:  $U_i=20V$ ,  $P_i=170mW$ ,  $C_i=84pF$ ,  $L_i=4uH$ (包含3米的电缆)。

2.2 当产品作为本安型使用时, 功耗、和温度组别和最高环境温度之间的关系:

功耗	温度组别			
	T6	T5	T4	T3
	最高环境温度 (°C)			
10mW	78	93	128	180
50mW	70	85	120	180
100mW	60	75	110	175
170mW	45	60	95	160

2.3 用户不得自行更换该产品的零部件，应会同产品制造商共同解决运行中出现的故障，以杜绝损坏现象的发生。

2.4 产品的安装、使用和维护应同时遵守产品使用说明书及下列相关标准的要求：

GB/T 3836.13—2021 爆炸性环境 第 13 部分：设备的修理、检修、修复和改造

GB 3836.15—2024 爆炸性环境 第 15 部分：电气装置设计、选型、安装规范

GB 3836.16—2024 爆炸性环境 第 16 部分：电气装置检查与维护规范

GB 50257—2014 电气装置安装工程爆炸和火灾危险环境电气装置施工及验收规范

### 3 制造商责任

3.1 制造商应将包含上述防爆合格证限制条件及产品使用注意事项的使用说明书提供给用户。

3.2 制造商应严格按照国家级仪器仪表防爆安全监督检验站认可的文件资料生产。

上海仪器仪表自控系统检验测试所有限公司

国家级仪器仪表防爆安全监督检验站

二〇二六年一月八日



(GYJ26.1012U)

(Attachment I)

### Attachment I to GYJ26.1012U

This product accords with following standards:

GB/T 3836.1-2021 Explosive atmospheres-Part 1: Equipment-General Requirements

GB/T 3836.3-2021 Explosive atmospheres-Part 3: Equipment protection by increased safety "e"

GB/T 3836.4-2021 Explosive atmospheres-Part 4: Equipment protection by intrinsic safety "i"

#### 1. Limiting conditions for use of the explosion-proof certificate

The suffix "U" in the explosion-proof certificate number indicates that this certificate has restrictions:

- 1.1 Product cannot be used alone; When used with other electrical equipment or systems, additional certification is required. See 2.2 for temperature groups.
- 1.2 Operating temperature range:  $-50^{\circ}\text{C} \sim +180^{\circ}\text{C}$ .

#### 2. Condition for safe use

2.1 Electrical Parameters:

2.1.1 Safe parameters of the "e" product :  $U \leq 20\text{V}$ ,  $I \leq 10\text{mA}$ ,  $P \leq 1.5\text{W}$ .

2.1.2 Intrinsic safety parameters of the intrinsic safety product:  $U_i=20\text{V}$ ,  $P_i=0.17\text{W}$ ,  $C_i=84\text{pF}$ ,  $L_i=4\text{uH}$ . (including cable with a length of 3 m)

2.2 When used in type of protection intrinsic safety Ex ia IIC, the relation between maximum ambient temperature , the maximum input power and temperature class is shown in the following table:

Maximum input power	Temperature Class			
	T6	T5	T4	T3
	Maximum ambient temperature ( °C )			
10mW	78	93	128	180
50mW	70	85	120	180
100mW	60	75	110	175
170mW	45	60	95	160

2.3 In order to avoid damage to the product, the user shall not change any parts of the product and the manufacturer shall be consulted when there is any problem during the usage.

2.4 During the installation, using and maintenance, the user shall folloing the instruction and folloing standards:

GB/T 3836.13-2021 Electrical atmospheres Part 13: Equipment repair, overhaul and reclamation

GB 3836.15-2024 Explosive atmospheres— Part 15: Specification of electrical installations design, selection and erection

GB 3836.16-2024 Explosive atmospheres—Part 16: Specification of electrical installations inspection and maintenance

GB/T 3836.18-2024 Explosive atmospheres-Part 18: Intrinsically safe electrical systems

GB 50257-2014 Code for construction and acceptance of electric device for explosion atmospheres and fire hazard electrical equipment installation engineering.

### 3. Manufacturer's Responsibility

3.1 The manufacturer shall provide the user with an instruction manual that includes the restrictions stated in the above-mentioned explosion-proof certificate and the precautions for product use.

3.2 Manufacturing should be done according to the documentation approved by NEPSI.

Shanghai Inspection and Testing  
Institute of Instruments and Automation Systems Co. Ltd.  
National Supervision and Inspection Center  
for Explosion Protection and Safety of Instrumentation

2026.01.08

The translation is provided for reference purposes only, and the official Chinese version shall prevail in case of any discrepancy in meaning or expression.