



防爆合格证

证号: GYJ20.1637U

由 MINCO PRODUCTS INC.

制造的产品:

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

名称 定子绕组电阻温度检测器

型号规格 B217137

防爆标志 Ex e 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 GB 3836.1-2010、GB 3836.3-2010、GB 3836.4-2010 标准, 特颁发此证。

本证书有效期: 2020 年 12 月 14 日至 2025 年 12 月 13 日

- 备注
1. 安全使用注意事项见本证书附件。
 2. 证书编号后缀“X”表明产品具有安全使用特殊条件, 内容见本证书附件。
 3. 电气安全参数见本证书附件。
 4. 本安电气参数见本证书附件。

站长

国家级仪器仪表防爆安全监督检验站

颁发日期二〇二〇年十二月十四日

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.GYJ20.1637U

This is to certify that the product

Resistance Temperature Detector for Stator Windings

manufactured by **MINCO PRODUCTS INC.**

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

which model is **B217137**

Ex marking **Ex e IIC Gb Ex ia IIC Ga**

product standard /

drawing number **B217137**

has been inspected and certified by NEPSI, and that it conforms
to GB 3836.1-2010,GB 3836.3-2010,GB 3836.4-2010

This Approval shall remain in force until **2025.12.13**

Remarks

- 1.Conditions for safe use are specified in the attachment(s) to this certificate.
- 2.Symbol "X" placed after the certification number denotes specific conditions of use, which are specified in the attachment(s) to this certificate.
- 3.Safe parameters specified in the attachment(s) to this certificate.
- 4.Intrinsic safety parameters specified in the attachment(s) to this certificate.

Director

**National Supervision and Inspection Centre for
Explosion Protection and Safety of Instrumentation**

Issued Date **2020.12.14**

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

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国家级仪器仪表防爆安全监督检验站

National Supervision and Inspection Centre for
Explosion Protection and Safety of Instrumentation

(GYJ20.1637U)

(Attachment I)

GYJ20.1637U防爆合格证附件 I

由 MINCO PRODUCTS INC 生产的 B217137 型定子绕组电阻温度检测器, 经国家
级仪器仪表防爆安全监督检验站(NEPSI)检验, 符合下列标准:

GB 3836.1-2010 爆炸性环境 第1部分: 设备 通用要求

GB 3836.3-2010 爆炸性环境 第3部分: 由增安型 “e” 保护的设备

GB 3836.4-2010 爆炸性环境 第4部分: 由本质安全型 “i” 保护的设备

产品防爆标志: Ex ia IIC Ga

Ex e IIC Gb

防爆合格证号GYJ20.1637U。

一、 产品安全使用特殊条件

防爆合格证号后缀 “U” 表明产品具有安全使用特殊条件: 与其他电气设备或系统一
起使用时需附加认证, 不能单独使用。

二、 产品使用注意事项

1. 使用工作温度范围: $-50^{\circ}\text{C} \sim +180^{\circ}\text{C}$ 。
2. 当产品作为本安型使用时, 功耗、温度组别和最高环境温度之间的关系:

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

3. 本安型产品本安参数: $U_i=20\text{V}$, $P_i=170\text{mW}$, 电缆 $C_i=84\text{pF}$, $L_i=4\mu\text{H}$ 。

(包含3米的电缆)

4. 增安型产品电气参数： $U \leq 20V$ ， $I \leq 10mA$ ， $P \leq 1.5W$ 。

5. 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。

6. 产品的安装、使用和维护应同时遵守产品使用说明书、GB3836.13-2013“爆炸性环境 第13部分：设备的修理、检修、修复和改造”、GB/T 3836.15-2017“爆炸性环境 第15部分：电气装置的设计、选型和安装”、GB/T 3836.16-2017“爆炸性环境 第16部分：电气装置的检查和维护”、GB/T 3836.18-2017“爆炸性环境 第18部分：本质安全电气系统”、GB50257-2014“电气设备安装工程爆炸和火灾危险环境电气装置施工及验收规范”。

三、制造厂责任

1. 制造厂必须将上述安全使用特殊条件和使用注意事项纳入产品的使用说明书中。

2. 制造厂必须严格按照NEPSI认可的文件资料生产。

3. 产品铭牌中应至少包括下列内容：

a) NEPSI认可标志（见防爆合格证书）



b) 产品防爆标志

c) 防爆合格证号

d) 使用环境温度范围等

国家级仪器仪表防爆安全监督检验站

二〇二〇年十二月十四日

国家级仪器仪表防爆安全监督检验站

National Supervision and Inspection Centre for Explosion Protection and Safety of Instrumentation

(GYJ20.1637U)

(Attachment I)

Attachment I to GYJ20.1637U

Resistance Temperature Detector for Stator Windings type B217137 manufactured by Minco Products Inc. has been certified by National Supervision and Inspection Center for Explosion Protection and Safety of Instrumentation (NEPSI), this product accords with following standards:

GB 3836.1-2010 Explosive atmospheres-Part 1: Equipment-General Requirements

GB 3836.3-2010 Explosive atmospheres-Part 3: Equipment protection by increased safety "e"

GB 3836.4-2010 Explosive atmospheres-Part 4: Equipment protection by intrinsic safety "i"

The Ex marking is Ex ia IIC Ga

Ex e IIC Gb

The certificate number is GYJ20.1637U.

1. Special condition for safe use

Suffix "U" denotes special condition for safe use: Product cannot be used alone; When used with other electrical equipment or systems, additional certification is required.

2. Condition for safe use

2.1 Operating temperature range: $-50^{\circ}\text{C} \sim +180^{\circ}\text{C}$.

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:

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

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

- 2.4 Safe parameters of the "e" product : $U \leq 20V$, $I \leq 10mA$, $P \leq 1.5W$.
- 2.5 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.
- 2.6 During the installation, using and maintenance, the user shall following the instruction and following standards:
- GB3836.13-2013 Explosive atmospheres-Part 13: Equipment repair, overhaul and reclamation
- GB/T3836.15-2017 Explosive atmospheres-Part 15: Electrical installations design, selection and erection
- GB/T3836.16-2017 Explosive atmospheres-Part 16: Electrical installations inspection and maintenance
- GB/T3836.18-2017 Explosive atmospheres-Part 18: Intrinsically safe electrical systems
- GB50257-2014 Code for construction and acceptance of electric device for explosion atmospheres and fire hazard electrical equipment installation engineering.

3. Manufacturer's Responsibility

- 3.1 Special condition for safe use and condition for safe use specified above should be included in the instruction manual.
- 3.2 Manufacturing should be done according to the documentation approved by NEPSI.
- 3.3 Any modification with influence on the type of protection should be submitted to NEPSI before application.
- 3.4 Following items should be added to the nameplate

- a) NEPSI logo 
- b) Ex marking
- c) Number of certificate
- d) Ambient temperature range

**National Supervision and Inspection Center
for Explosion Protection and Safety of Instrumentation**

Dec 14th, 2020