



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No.: 2024312304002811

Applicant and address

Siemens Industrial Automation Products Ltd., Chengdu
Tianyuan road 99, Chengdu High Tech Zone West, Chengdu, Sichuan Province,
China

Manufacturer and address

Siemens AG
Gleiwitzer Straße 555, 90475 Nürnberg, Germany

Factory and address

1.Siemens AG
1.Werner-von-Siemens-Straße 50, 92224 Amberg, Germany

Product, series, specification and model

Programmable Logic Controller
SIMATIC S7-1200 G2
Ex ec nC IIC T4 Gc, Ex ec IIC T4 Gc

Standards

GB/T 3836.1-2021, GB/T 3836.3-2021, GB/T 3836.8-2021

**This product(s) complies with the requirements of CNCA-C23-01: 2024
China Compulsory Certification Implementation Rule on Explosion
Protected Electrical Product.**

Issue date: 2025-12-25 Valid to: 2029-12-26

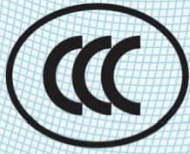
Detailed information and status of this certificate is available by using the QR code,
visiting CNEx's website or CNCA's website: www.cnca.gov.cn.

This translated document has no legal effect and shall not be used alone.



Director:

Nanyang Explosion Protected Electrical
Apparatus Research Institute Co.,Ltd.



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Product information:

1. This certificate covers the following models:

-SIMATIC S7-1200 G2

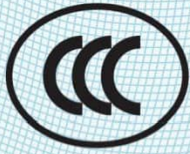
Modules Type 6ES7... for use in SIMATIC S7-1200 G2 Programmable Logic Controller.

Model	Electrical Ratings/Rated Ambient Temperature Range
CPUs	
6ES7214-1BH50-0XB0	Supply: 120/240 VAC, 480/275 mA Inputs: 14 inputs at 24 VDC, 6 mA Outputs: 10 relay outputs at 30 VDC/250 VAC 50/60 Hz, 2 A/point max Ambient Temperature Ranges: -20°C ≤ Ta ≤ +40°C Horizontal Mount -20°C ≤ Ta ≤ +50°C Vertical Mount Derated Spec. 50% -20°C ≤ Ta ≤ +60°C Horizontal Mount Derated Spec. 50%
6ES7212-1HG50-0XB0	Supply: 24V DC, 765 mA, Inputs: 8 inputs at 24 VDC, 6 mA Outputs: 6 relay outputs at 30 VDC/250 VAC, 50/60 Hz 2.0 A total Ambient Temperature Ranges: -20°C ≤ Ta ≤ +40°C Horizontal Mount -20°C ≤ Ta ≤ +50°C Vertical Mount Derated Spec. 50% -20°C ≤ Ta ≤ +60°C Horizontal Mount Derated Spec. 50%
6ES7212-1BG50-0XB0	Supply: 120/240V AC, 330/200 mA, Inputs: 8 inputs at 24 VDC, 6 mA Outputs: 6 relay outputs at 30 VDC/250 VAC, 50/60 Hz 2.0 A total Ambient Temperature Ranges: -20°C ≤ Ta ≤ +40°C Horizontal Mount -20°C ≤ Ta ≤ +50°C Vertical Mount Derated Spec. 50% -20°C ≤ Ta ≤ +60°C Horizontal Mount Derated Spec. 50%
6ES7214-1AH50-0XB0	Supply: 24V DC, 1000 mA, Inputs: 14 inputs at 24 VDC, 6 mA Outputs: 10 outputs at 24V DC, 0.5 A total Ambient Temperature Ranges: -20°C ≤ Ta ≤ +40°C Horizontal Mount -20°C ≤ Ta ≤ +40°C Vertical Mount -20°C ≤ Ta ≤ +50°C Vertical Mount Derated Spec. 50% -20°C ≤ Ta ≤ +60°C Horizontal Mount Derated Spec. 50%
6ES7214-1HH50-0XB0	Supply: 24V DC, 1100 mA, Inputs: 14 inputs at 24 VDC, 6 mA Outputs: 10 relay outputs at 30V DC/ 250V AC, 50/60Hz, 2 A total Ambient Temperature Ranges:



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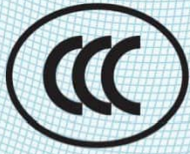
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	<p>$-20^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$ Horizontal Mount $-20^{\circ}\text{C} \leq T_a \leq +50^{\circ}\text{C}$ Vertical Mount Derated Spec. 50% $-20^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$ Horizontal Mount Derated Spec. 50%</p>
6ES7212-1AF50-0XB0	<p>Supply: 24V DC, 700 mA, Inputs: 8 inputs at 24 VDC, 6 mA Outputs: 6 outputs at 24V DC, 0.5 A total Ambient Temperature Ranges: $-20^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$ Horizontal Mount $-20^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$ Vertical Mount $-20^{\circ}\text{C} \leq T_a \leq +50^{\circ}\text{C}$ Vertical Mount Derated Spec. 50% $-20^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$ Horizontal Mount Derated Spec. 50%</p>
6ES7212-1HF50-0XB0	<p>Supply: 24V DC, 765 mA Inputs: 8 inputs at 24 VDC, 6 mA Outputs: 6 relay outputs at 30V DC/250V AC, 50/60Hz, 2 A total Ambient Temperature Ranges: $-20^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$ Horizontal Mount $-20^{\circ}\text{C} \leq T_a \leq +50^{\circ}\text{C}$ Vertical Mount Derated Spec. 50% $-20^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$ Horizontal Mount Derated Spec. 50%</p>
6ES7214-1AF50-0XB0	<p>Supply: 24V DC, 1000 mA, Inputs: 14 inputs at 24 VDC, 6 mA Outputs: 10 outputs at 24V DC, 0.5 A total Ambient Temperature Ranges: $-20^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$ Horizontal Mount $-20^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$ Vertical Mount $-20^{\circ}\text{C} \leq T_a \leq +50^{\circ}\text{C}$ Vertical Mount Derated Spec. 50% $-20^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$ Horizontal Mount Derated Spec. 50%</p>
6ES7214-1HF50-0XB0	<p>Supply: 24V DC, 1100 mA Inputs: 14 inputs at 24 VDC, 6 mA Outputs: 10 relay outputs at 30V DC/250V AC, 50/60 Hz, 2 A total Ambient Temperature Ranges: $-20^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$ Horizontal Mount $-20^{\circ}\text{C} \leq T_a \leq +50^{\circ}\text{C}$ Vertical Mount Derated Spec. 50% $-20^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$ Horizontal Mount Derated Spec. 50%</p>
6ES7212-1AG50-0XB0	<p>Supply: 24V DC, 700 mA, Inputs: 8 inputs at 24 VDC, 6 mA Outputs: 6 outputs at 24V DC, 0.5 A total Ambient Temperature Ranges: $-20^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$ Horizontal Mount $-20^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$ Vertical Mount $-20^{\circ}\text{C} \leq T_a \leq +50^{\circ}\text{C}$ Vertical Mount Derated Spec. 50% $-20^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$ Horizontal Mount Derated Spec. 50%</p>
Signal Modules	
6ES7221-1BH50-0XB0	<p>Inputs: 16 inputs at 24 VDC, 5.5 mA/pt Ambient Temperature Ranges: $-20^{\circ}\text{C} \leq T_a \leq +50^{\circ}\text{C}$ Vertical Mount $-20^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$ Horizontal Mount</p>



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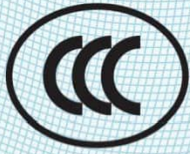
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6ES7222-5BH50-0XB0	Supply 24V DC, 45 mA Outputs: 16 outputs at 24 VDC, 0.5 mA/pt Ambient Temperature Ranges: -20°C ≤ Ta ≤ +50°C Vertical Mount -20°C ≤ Ta ≤ +60°C Horizontal Mount
6ES7222-5HH50-0XB0	Supply 24V DC, 160 mA Outputs: 16 relay outputs at 30 VDC/250V AC, 50/60Hz, 2 A/pt Ambient Temperature Ranges: -20°C ≤ Ta ≤ +40°C Horizontal Mount -20°C ≤ Ta ≤ +50°C Vertical Mount Derated Spec. 50% -20°C ≤ Ta ≤ +60°C Horizontal Mount Derated Spec. 50%
6ES7223-5BH50-0XB0	Supply 24V DC, 60 mA Inputs: 8 inputs at 24V DC, 5.5 mA/pt Outputs: 8 outputs at 24V DC, 0.5 A/pt Ambient Temperature Ranges: -20°C ≤ Ta ≤ +50°C Vertical Mount -20°C ≤ Ta ≤ +60°C Horizontal Mount
6ES7223-5PH50-0XB0	Supply 24V DC, 80 mA Inputs: 8 inputs at 24V DC, 5.5 mA/pt Outputs: 8 relay outputs at 30V DC/250V AC, 50/60Hz, 2A/pt Ambient Temperature Ranges: -20°C ≤ Ta ≤ +40°C Horizontal Mount -20°C ≤ Ta ≤ +50°C Vertical Mount Derated Spec. 50% -20°C ≤ Ta ≤ +60°C Horizontal Mount Derated Spec. 50%
6ES7231-4HF50-0XB0	Supply 24V DC, 45 mA Inputs: 8 inputs x 14 bits at ± 10V DC, 0-20 mA Ambient Temperature Ranges: -20°C ≤ Ta ≤ +50°C Vertical Mount -20°C ≤ Ta ≤ +60°C Horizontal Mount
6ES7232-4HF50-0XB0	Supply 24V DC, 45 mA Outputs: 8 outputs x 14 bits at ± 10V DC, 0-20 mA Ambient Temperature Ranges: -20°C ≤ Ta ≤ +40°C Horizontal Mount -20°C ≤ Ta ≤ +50°C Vertical Mount Derated Spec. 50% -20°C ≤ Ta ≤ +60°C Horizontal Mount Derated Spec. 50%
6ES7233-4HF50-0XB0	Supply 24V DC, 40 mA Inputs: 4 inputs x 14 bits at ± 10V DC, 0-20 mA Outputs: 4 outputs x 14 bits at ± 10V DC, 0-20 mA Ambient Temperature Ranges: -20°C ≤ Ta ≤ +40°C Horizontal Mount -20°C ≤ Ta ≤ +50°C Vertical Mount Derated Spec. 50% -20°C ≤ Ta ≤ +60°C Horizontal Mount Derated Spec. 50%
6ES7231-5PD50-0XB0	Supply: 24V DC, 15mA Inputs: 4 inputs x RTD Ambient Temperature Ranges: -20°C ≤ Ta ≤ +50°C Vertical Mount



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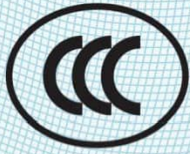
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	-20°C ≤ Ta ≤ +60°C Horizontal Mount
6ES7226-6ME50-0XB0	Supply: 24V DC, 90mA F-DI: 4 inputs at 24V DC, 6mA DI: 2 inputs at 24V DC, 6mA F-DQ: 2 outputs at 24V DC, PPM 2A p.d./res. 10W tung. Ambient Temperature Ranges: 0°C ≤ Ta ≤ +50°C Vertical Mount 0°C ≤ Ta ≤ +60°C Horizontal Mount
6ES7231-5QF50-0XB0	Supply: 24V DC, 15mA Inputs: 8 inputs x TC, 16 bits Ambient Temperature Ranges: -20°C ≤ Ta ≤ +50°C Vertical Mount -20°C ≤ Ta ≤ +60°C Horizontal Mount
6ES7223-5BL50-0XB0	Supply 24V DC, 175 mA Inputs: 16 inputs x 24V DC, 5,5mA/pt Outputs: 16 outputs x 24V DC, 0,5A/pt Ambient Temperature Ranges: -20°C ≤ Ta ≤ +50°C Vertical Mount -20°C ≤ Ta ≤ +60°C Horizontal Mount
6ES7223-5BL50-1XB0	Supply 24V DC, 175 mA Inputs: 16 inputs x 24V DC, 5,5mA/pt Outputs: 16 outputs x 24V DC, 0,5A/pt Ambient Temperature Ranges: -20°C ≤ Ta ≤ +50°C Vertical Mount -20°C ≤ Ta ≤ +60°C Horizontal Mount
6ES7223-5PL50-0XB0	Supply 24V DC, 175 mA Inputs: 16 inputs x 24V DC, 5,5mA/pt Outputs: 16 Relay outputs at 30V DC/250V AC, 2A/pt Ambient Temperature Ranges : -20°C ≤ Ta ≤ +40°C Horizontal Mount -20°C ≤ Ta ≤ +40°C Vertical Mount -20°C ≤ Ta ≤ +50°C Vertical Mount Derated Spec. 50% -20°C ≤ Ta ≤ +60°C Horizontal Mount Derated Spec. 50%
Signal Boards	
6ES7221-3BF50-0XB0	Inputs: 8 inputs at 24V DC, 7,5 mA/pt Ambient Temperature Ranges: -20°C ≤ Ta ≤ +40°C Horizontal Mount -20°C ≤ Ta ≤ +40°C Vertical Mount -20°C ≤ Ta ≤ +50°C Vertical Mount Derated Spec. 50% -20°C ≤ Ta ≤ +60°C Horizontal Mount Derated Spec. 50%
6ES7222-5BF50-0XB0	Supply: 24V DC, 15 mA max. Outputs: 8 outputs at 24V DC, 0,1A/pt Ambient Temperature Ranges: -20°C ≤ Ta ≤ +40°C Horizontal Mount -20°C ≤ Ta ≤ +40°C Vertical Mount -20°C ≤ Ta ≤ +50°C Vertical Mount Derated Spec. 50%



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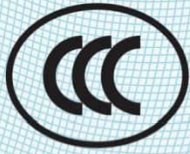
	-20°C ≤ Ta ≤ +60°C Horizontal Mount Derated Spec. 50%
6ES7223-7BF50-0XB0	Supply: 24V DC, 15 mA max. Inputs: 4 inputs at 24V DC, 7.5mA/pt Outputs: 4 outputs at 24V DC, 0.1 A Ambient Temperature Ranges: -20°C ≤ Ta ≤ +40°C Horizontal Mount -20°C ≤ Ta ≤ +40°C Vertical Mount -20°C ≤ Ta ≤ +50°C Vertical Mount Derated Spec. 50% -20°C ≤ Ta ≤ +60°C Horizontal Mount Derated Spec. 50%
6ES7223-7AF50-0XB0	Supply: 5V DC, 15 mA max. Inputs: 4 inputs at 5V DC, 15mA/pt Output: 4 outputs at 5V DC, 0.1A/pt Ambient Temperature Ranges: -20°C ≤ Ta ≤ +40°C Horizontal Mount -20°C ≤ Ta ≤ +40°C Vertical Mount -20°C ≤ Ta ≤ +50°C Vertical Mount Derated Spec. 50% -20°C ≤ Ta ≤ +60°C Horizontal Mount Derated Spec. 50%
6ES7231-4HD50-0XB0	Supply: 24V DC, 30mA Inputs: 4 inputs x 14 bits, ± 10V DC, 0-20 mA Ambient Temperature Ranges: -20°C ≤ Ta ≤ +40°C Horizontal Mount -20°C ≤ Ta ≤ +50°C Vertical Mount Derated Spec. 50% -20°C ≤ Ta ≤ +60°C Horizontal Mount Derated Spec. 50%
6ES7232-4HD50-0XB0	Supply: 24V DC, 30mA Inputs: 4 inputs x 14 bits, ± 10V DC, 0-20 mA Ambient Temperature Ranges: -20°C ≤ Ta ≤ +40°C Horizontal Mount -20°C ≤ Ta ≤ +40°C Vertical Mount -20°C ≤ Ta ≤ +50°C Vertical Mount Derated Spec. 50% -20°C ≤ Ta ≤ +60°C Horizontal Mount Derated Spec. 50%
6ES7233-4HD50-0XB0	Supply: 24V DC, 25mA Inputs: 2 inputs x 14 bits, ± 10V DC, 0-20 mA Outputs: 2 outputs x bits, ± 10V DC, 0-20 mA Ambient Temperature Ranges: -20°C ≤ Ta ≤ +40°C Horizontal Mount -20°C ≤ Ta ≤ +50°C Vertical Mount Derated Spec. 50% -20°C ≤ Ta ≤ +60°C Horizontal Mount Derated Spec. 50%
6ES7231-5PB50-0XB0	Inputs: 2 inputs x RTD, 16 bits Ambient Temperature Ranges: -20°C ≤ Ta ≤ +50°C Vertical Mount -20°C ≤ Ta ≤ +60°C Horizontal Mount
6ES7231-5QD50-0XB0	Inputs: 4 inputs x TC, 16 bits Ambient Temperature Ranges: -20°C ≤ Ta ≤ +50°C Vertical Mount -20°C ≤ Ta ≤ +60°C Horizontal Mount

Communication Board



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6ES7241-1CA50-0XB0	Supply: 5V DC, 25mA Type: RS485 Ambient Temperature Ranges: -20°C ≤ Ta ≤ +50°C Vertical Mount -20°C ≤ Ta ≤ +60°C Horizontal Mount
Communication Module	
6ES7241-1EA50-0XB0	Supply: 5V DC, 170mA Type: RS232 / RS485 / RS422 Ambient Temperature Ranges: -20°C ≤ Ta ≤ +50°C Vertical Mount -20°C ≤ Ta ≤ +60°C Horizontal Mount
Battery Board	
6ES7297-4AX50-0XA0	Supply: CR2032 Battery Ambient Temperature Ranges: 20°C to 60°C Horizontal 20°C to 50°C Vertical

Ex Marking:

Ex ec nC IIC T4 Gc

(For Models: 6ES7212-1HG50-0XB0, 6ES7212-1BG50-0XB0, 6ES7214-1HH50-0XB0, 6ES7214-1BH50-0XB0, 6ES7212-1HF50-0XB0, 6ES7214-1HF50-0XB0, 6ES7222-5HH50-0XB0, 6ES7223-5PH50-0XB0, 6ES7231-4HF50-0XB0, 6ES7233-4HF50-0XB0, 6ES7231-4HD50-0XB0, 6ES7233-4HD50-0XB0, 6ES7223-5PL50-0XB0)

Ex ec IIC T4 Gc

(For Models: 6ES7212-1AG50-0XB0, 6ES7214-1AH50-0XB0, 6ES7212-1AF50-0XB0, 6ES7214-1AF50-0XB0, 6ES7221-1BH50-0XB0, 6ES7222-5BH50-0XB0, 6ES7223-5BH50-0XB0, 6ES7232-4HF50-0XB0, 6ES7221-3BF50-0XB0, 6ES7222-5BF50-0XB0, 6ES7223-7BF50-0XB0, 6ES7223-7AF50-0XB0, 6ES7232-4HD50-0XB0, 6ES7241-1CA50-0XB0, 6ES7241-1EA50-0XB0, 6ES7231-5PD50-0XB0, 6ES7231-5PB50-0XB0, 6ES7231-5QD50-0XB0, 6ES7231-5QF50-0XB0, 6ES7226-6ME50-0XB0, 6ES7223-5BL50-0XB0, 6ES7223-5BL50-1XB0 and 6ES7297-4AX50-0XA0)

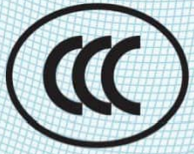
- Producers should organize production in accordance with the technical documents approved by the certification body.

2. Specific conditions of use:



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- The equipment shall only be used in an area of at least pollution degree 2, as defined in GB/T 16935.1.
- The equipment shall be installed in a suitable enclosure providing a degree of protection of at least IP54 according to GB/T 3836.1. The ambient conditions must be taken into consideration for use.
- Transient protection shall be provided that is set at a level not exceeding 140% of the peak rated voltage value at the supply terminals to the equipment.
- Some modules shall be used at a derated specification in different ambient ranges and mount type (horizontal or vertical), refer to product information.
- See instruction for other information.

3. Certificate change information:

- 1st change on May 15, 2025: add three modules 6ES7231-5PD50-0XB0, 6ES7241-1CA50-0XB0 and 6ES7241-1EA50-0XB0.
- 2nd change on July 01, 2025: add three modules 6ES7231-5PB50-0XB0, 6ES7231-5QD50-0XB0 and 6ES7231-5QF50-0XB0.
- 3rd change on 2025-12-25 : add five modules 6ES7223-5BL50-0XB0, 6ES7223-5BL50-1XB0, 6ES7223-5PL50-0XB0, 6ES7297-4AX50-0XA0 and 6ES7226-6ME50-0XB0.

4. The other production addresses:

No.	Address (Production Factory)
Address 2	Tianyuan road 99, Chengdu High Tech Zone West, Chengdu, Sichuan Province, China (Siemens Industrial Automation Products Ltd., Chengdu)



Nanyang Explosion Protected Electrical Apparatus Research Institute Co.,Ltd.





中国国家强制性产品认证证书

证书编号：2024312304002811

认证委托人名称及地址

西门子工业自动化产品（成都）有限公司
四川省成都高新西区天源路99号

生产者名称及地址

Siemens AG
Gleiwitzer Straße 555, 90475 Nürnberg, Germany

生产企业名称及地址

1. Siemens AG
1. Werner-von-Siemens-Straße 50, 92224 Amberg, Germany

产品名称和系列、型号、规格

SIMATIC可编程控制器

S7-1200 G2

Ex ec IIC T4 Gc, Ex ec nC IIC T4 Gc

产品标准和技术要求

GB/T 3836.1-2021, GB/T 3836.3-2021, GB/T 3836.8-2021

上述产品符合《强制性产品认证实施规则 防爆电气》
(CNCA-C23-01: 2024)的要求，特发此证。

发证日期：2025年12月25日 有效期至：2029年12月26日

证书信息和有效性可扫描下方二维码或登录发证机构网站查验，
也可在认监委网站（www.cnca.gov.cn）查询。



法定代表人：

南阳防爆电气研究所有限公司



中国国家强制性产品认证证书

证书编号：2024312304002811

证书附页：第 1 页 共 7 页

产品相关信息：

1、本证书覆盖产品如下：

- S7-1200 G2

模块 6ES7... 用于 SIMATIC S7-1200 G2 可编程控制器。

型号	额定电气参数/额定环境温度范围
CPU 模块	
6ES7214-1BH50-0XB0	电源：120/240 VAC, 480/275 mA 输入：14 inputs at 24 VDC, 6 mA 输出：10 relay outputs at 30 VDC/250 VAC 50/60 Hz, 2 A/point max 环境温度范围： -20°C ≤ Ta ≤ +40°C 水平安装 -20°C ≤ Ta ≤ +50°C 垂直安装 降额规格 50% -20°C ≤ Ta ≤ +60°C 水平安装 降额规格 50%
6ES7212-1HG50-0XB0	电源：24V DC, 765 mA 输入：8 inputs at 24 VDC, 6 mA 输出：6 relay outputs at 30 VDC/250 VAC, 50/60 Hz 2.0 A total 环境温度范围： -20°C ≤ Ta ≤ +40°C 水平安装 -20°C ≤ Ta ≤ +50°C 垂直安装 降额规格 50% -20°C ≤ Ta ≤ +60°C 水平安装 降额规格 50%
6ES7212-1BG50-0XB0	电源：120/240V AC, 330/200 mA 输入：8 inputs at 24 VDC, 6 mA 输出：6 relay outputs at 30 VDC/250 VAC, 50/60 Hz 2.0 A total 环境温度范围： -20°C ≤ Ta ≤ +40°C 水平安装 -20°C ≤ Ta ≤ +50°C 垂直安装 降额规格 50% -20°C ≤ Ta ≤ +60°C 水平安装 降额规格 50%
6ES7214-1AH50-0XB0	电源：24V DC, 1000 mA 输入：14 inputs at 24 VDC, 6 mA 输出：10 outputs at 24V DC, 0.5 A total 环境温度范围： -20°C ≤ Ta ≤ +40°C 水平安装 -20°C ≤ Ta ≤ +40°C 垂直安装 -20°C ≤ Ta ≤ +50°C 垂直安装 降额规格 50% -20°C ≤ Ta ≤ +60°C 水平安装 降额规格 50%
6ES7214-1HH50-0XB0	电源：24V DC, 1100 mA 输入：14 inputs at 24 VDC, 6 mA 输出：10 relay outputs at 30V DC/ 250V AC, 50/60Hz, 2.0 A total 环境温度范围： -20°C ≤ Ta ≤ +40°C 水平安装 -20°C ≤ Ta ≤ +50°C 垂直安装 降额规格 50% -20°C ≤ Ta ≤ +60°C 水平安装 降额规格 50%

本页为证书附页，应与证书主页同时使用。



南阳防爆电气研究所有限公司



中国认可
产品
PRODUCT
CNAS C208-P



中国国家强制性产品认证证书

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6ES7212-1AF50-0XB0	电源：24V DC, 700 mA 输入：8 inputs at 24 VDC, 6 mA 输出：6 output at 24V DC, 0.5 A total 环境温度范围： -20°C ≤ Ta ≤ +40°C 水平安装 -20°C ≤ Ta ≤ +40°C 垂直安装 -20°C ≤ Ta ≤ +50°C 垂直安装 降额规格 50% -20°C ≤ Ta ≤ +60°C 水平安装 降额规格 50%
6ES7212-1HF50-0XB0	电源：24V DC, 765 mA 输入：8 inputs at 24 VDC, 6 mA 输出：6 relay outputs at 30V DC/250V AC, 50/60Hz, 2.0 A total 环境温度范围： -20°C ≤ Ta ≤ +40°C 水平安装 -20°C ≤ Ta ≤ +50°C 垂直安装 降额规格 50% -20°C ≤ Ta ≤ +60°C 水平安装 降额规格 50%
6ES7214-1AF50-0XB0	电源：24V DC, 1000 mA 输入：14 inputs at 24 VDC, 6 mA 输出：10 outputs at 24V DC, 0.5 A total 环境温度范围： -20°C ≤ Ta ≤ +40°C 水平安装 -20°C ≤ Ta ≤ +40°C 垂直安装 -20°C ≤ Ta ≤ +50°C 垂直安装 降额规格 50% -20°C ≤ Ta ≤ +60°C 水平安装 降额规格 50%
6ES7214-1HF50-0XB0	电源：24V DC, 1100 mA 输入：14 inputs at 24 VDC, 6 mA 输出：10 relay outputs at 30V DC/250V AC, 50/60 Hz, 2.0 A total 环境温度范围： -20°C ≤ Ta ≤ +40°C 水平安装 -20°C ≤ Ta ≤ +50°C 垂直安装 降额规格 50% -20°C ≤ Ta ≤ +60°C 水平安装 降额规格 50%
6ES7212-1AG50-0XB0	电源：24V DC, 700 mA 输入：8 inputs at 24 VDC, 6 mA 输出：6 outputs at 24V DC, 0.5A total 环境温度范围： -20°C ≤ Ta ≤ +40°C 水平安装 -20°C ≤ Ta ≤ +40°C 垂直安装 -20°C ≤ Ta ≤ +50°C 垂直安装 降额规格 50% -20°C ≤ Ta ≤ +60°C 水平安装 降额规格 50% 信号模块
6ES7221-1BH50-0XB0	输入：16 inputs at 24 VDC, 5.5 mA/pt 环境温度范围： -20°C ≤ Ta ≤ +50°C 垂直安装 -20°C ≤ Ta ≤ +60°C 水平安装
6ES7222-5BH50-0XB0	电源 24V DC, 45 mA 输出：16 outputs at 24 VDC, 0.5 mA/pt 环境温度范围：

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	-20°C ≤ Ta ≤ +50°C 垂直安装 -20°C ≤ Ta ≤ +60°C 水平安装
6ES7222-5HH50-0XB0	电源：24V DC, 160 mA 输出：16 relay outputs at 30 VDC/250V AC, 50/60Hz, 2 A/pt 环境温度范围： -20°C ≤ Ta ≤ +40°C 水平安装 -20°C ≤ Ta ≤ +50°C 垂直安装 降额规格 50% -20°C ≤ Ta ≤ +60°C 水平安装 降额规格 50%
6ES7223-5BH50-0XB0	电源：24V DC, 60 mA 输入：8 inputs at 24V DC, 5.5 mA/pt 输出：8 outputs at 24V DC, 0.5 A/pt 环境温度范围： -20°C ≤ Ta ≤ +50°C 垂直安装 -20°C ≤ Ta ≤ +60°C 水平安装
6ES7223-5PH50-0XB0	电源：24V DC, 80 mA 输入：8 inputs at 24V DC, 5.5 mA/pt 输出：8 relay outputs at 30V DC/250V AC, 50/60Hz, 2A/pt 环境温度范围： -20°C ≤ Ta ≤ +40°C 水平安装 -20°C ≤ Ta ≤ +50°C 垂直安装 降额规格 50% -20°C ≤ Ta ≤ +60°C 水平安装 降额规格 50%
6ES7231-4HF50-0XB0	电源：24V DC, 45 mA 输入：8 inputs x 14 bits at ± 10V DC, 0-20 mA 环境温度范围： -20°C ≤ Ta ≤ +50°C 垂直安装 -20°C ≤ Ta ≤ +60°C 水平安装
6ES7232-4HF50-0XB0	电源：24V DC, 45 mA 输出：8 outputs x 14 bits at ± 10V DC, 0-20 mA 环境温度范围： -20°C ≤ Ta ≤ +40°C 水平安装 -20°C ≤ Ta ≤ +50°C 垂直安装 降额规格 50% -20°C ≤ Ta ≤ +60°C 水平安装 降额规格 50%
6ES7233-4HF50-0XB0	电源：24V DC, 40 mA 输入：4 inputs x 14 bits at ± 10V DC, 0-20 mA 输出：4 outputs x 14 bits at ± 10V DC, 0-20 mA 环境温度范围： -20°C ≤ Ta ≤ +40°C 水平安装 -20°C ≤ Ta ≤ +50°C 垂直安装 降额规格 50% -20°C ≤ Ta ≤ +60°C 水平安装 降额规格 50%
6ES7231-5PD50-0XB0	电源：24V DC, 15 mA 输入：4 inputs x RTD 环境温度范围： -20°C ≤ Ta ≤ +50°C 垂直安装 -20°C ≤ Ta ≤ +60°C 水平安装
6ES7226-6ME50-0XB0	电源：24V DC, 90 mA F-DI: 4 inputs at 24V DC, 6mA

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	DI: 2 inputs at 24V DC, 6mA F-DQ: 2 outputs at 24V DC, PPM 2A p.d./res. 10W tung. 环境温度范围: 0°C ≤ Ta ≤ +50°C 垂直安装 0°C ≤ Ta ≤ +60°C 水平安装
6ES7231-5QF50-0XB0	电源: 24V DC, 15 mA 输入: 8 inputs x TC, 16 bits 环境温度范围: -20°C ≤ Ta ≤ +50°C 垂直安装 -20°C ≤ Ta ≤ +60°C 水平安装
6ES7223-5BL50-0XB0	电源: 24V DC, 175 mA 输入: 16 inputs x 24V DC, 5.5 mA/pt 输出: 16 outputs x 24V DC, 0.5A/pt 环境温度范围: -20°C ≤ Ta ≤ +50°C 垂直安装 -20°C ≤ Ta ≤ +60°C 水平安装
6ES7223-5BL50-1XB0	电源: 24V DC, 175 mA 输入: 16 inputs x 24V DC, 5.5 mA/pt 输出: 16 outputs x 24V DC, 0.5A/pt 环境温度范围: -20°C ≤ Ta ≤ +50°C 垂直安装 -20°C ≤ Ta ≤ +60°C 水平安装
6ES7223-5PL50-0XB0	电源: 24V DC, 175 mA 输入: 16 inputs x 24V DC, 5.5 mA/pt 输出: 16 relay outputs at 30V DC/250V AC, 50/60Hz, 2A/pt 环境温度范围: -20°C ≤ Ta ≤ +40°C 水平安装 -20°C ≤ Ta ≤ +40°C 垂直安装 -20°C ≤ Ta ≤ +50°C 垂直安装 降额规格 50% -20°C ≤ Ta ≤ +60°C 水平安装 降额规格 50%
信号板	
6ES7221-3BF50-0XB0	输入: 8 inputs at 24V DC, 7.5 mA/pt 环境温度范围: -20°C ≤ Ta ≤ +40°C 水平安装 -20°C ≤ Ta ≤ +40°C 垂直安装 -20°C ≤ Ta ≤ +50°C 垂直安装 降额规格 50% -20°C ≤ Ta ≤ +60°C 水平安装 降额规格 50%
6ES7222-5BF50-0XB0	电源: 24V DC, 15 mA max. 输出: 8 outputs at 24V DC, 0.1 A/pt 环境温度范围: -20°C ≤ Ta ≤ +40°C 水平安装 -20°C ≤ Ta ≤ +40°C 垂直安装 -20°C ≤ Ta ≤ +50°C 垂直安装 降额规格 50% -20°C ≤ Ta ≤ +60°C 水平安装 降额规格 50%
6ES7223-7BF50-0XB0	电源: 24V DC, 15 mA max. 输入: 4 inputs at 24V DC, 7.5mA/pt

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	输出：4 outputs at 24V DC, 0.1A 环境温度范围： -20°C ≤ Ta ≤ +40°C 水平安装 -20°C ≤ Ta ≤ +40°C 垂直安装 -20°C ≤ Ta ≤ +50°C 垂直安装 降额规格 50% -20°C ≤ Ta ≤ +60°C 水平安装 降额规格 50%
6ES7223-7AF50-0XB0	电源：5V DC, 15mA max. 输入：4 inputs at 5V DC, 15mA/pt 输出：4 outputs at 5V DC, 0.1A/pt 环境温度范围： -20°C ≤ Ta ≤ +40°C 水平安装 -20°C ≤ Ta ≤ +40°C 垂直安装 -20°C ≤ Ta ≤ +50°C 垂直安装 降额规格 50% -20°C ≤ Ta ≤ +60°C 水平安装 降额规格 50%
6ES7231-4HD50-0XB0	电源：24V DC, 30mA 输入：4 inputs x 14 bits, ± 10V DC, 0-20 mA 环境温度范围： -20°C ≤ Ta ≤ +40°C 水平安装 -20°C ≤ Ta ≤ +50°C 垂直安装 降额规格 50% -20°C ≤ Ta ≤ +60°C 水平安装 降额规格 50%
6ES7232-4HD50-0XB0	电源：24V DC, 30mA 输入：4 inputs x 14 bits, ± 10V DC, 0-20 mA 环境温度范围： -20°C ≤ Ta ≤ +40°C 水平安装 -20°C ≤ Ta ≤ +40°C 垂直安装 -20°C ≤ Ta ≤ +50°C 垂直安装 降额规格 50% -20°C ≤ Ta ≤ +60°C 水平安装 降额规格 50%
6ES7233-4HD50-0XB0	电源：24V DC, 25mA 输入：2 inputs x 14 bits, ± 10V DC, 0-20 mA 输出：2 outputs x bits, ± 10V DC, 0-20 mA 环境温度范围： -20°C ≤ Ta ≤ +40°C 水平安装 -20°C ≤ Ta ≤ +50°C 垂直安装 降额规格 50% -20°C ≤ Ta ≤ +60°C 水平安装 降额规格 50%
6ES7231-5PB50-0XB0	输入：2 inputs x RTD, 16 bits 环境温度范围： -20°C ≤ Ta ≤ +50°C 垂直安装 -20°C ≤ Ta ≤ +60°C 水平安装
6ES7231-5QD50-0XB0	输入：4 inputs x TC, 16 bits 环境温度范围： -20°C ≤ Ta ≤ +50°C 垂直安装 -20°C ≤ Ta ≤ +60°C 水平安装
通讯板	
6ES7241-1CA50-0XB0	电源：5V DC, 25mA 类型：RS485 环境温度范围：

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	-20°C ≤ Ta ≤ +50°C 垂直安装 -20°C ≤ Ta ≤ +60°C 水平安装
	通讯模块
6ES7241-1EA50-0XB0	电源：5V DC, 170mA 类型：RS232 / RS485 / RS422 环境温度范围： -20°C ≤ Ta ≤ +50°C 垂直安装 -20°C ≤ Ta ≤ +60°C 水平安装
	电池板
6ES7297-4AX50-0XA0	电源：CR2032 电池 环境温度范围： 20°C ≤ Ta ≤ 60°C 水平安装 20°C ≤ Ta ≤ 50°C 垂直安装

防爆标志：

Ex ec nC IIC T4 Gc

(型号: 6ES7212-1HG50-0XB0, 6ES7212-1BG50-0XB0, 6ES7214-1HH50-0XB0, 6ES7214-1BH50-0XB0, 6ES7212-1HF50-0XB0, 6ES7214-1HF50-0XB0, 6ES7222-5HH50-0XB0, 6ES7223-5PH50-0XB0, 6ES7231-4HF50-0XB0, 6ES7233-4HF50-0XB0, 6ES7231-4HD50-0XB0, 6ES7233-4HD50-0XB0, 6ES7223-5PL50-0XB0)

Ex ec IIC T4 Gc

(型号: 6ES7212-1AG50-0XB0, 6ES7214-1AH50-0XB0, 6ES7212-1AF50-0XB0, 6ES7214-1AF50-0XB0, 6ES7221-1BH50-0XB0, 6ES7222-5BH50-0XB0, 6ES7223-5BH50-0XB0, 6ES7232-4HF50-0XB0, 6ES7221-3BF50-0XB0, 6ES7222-5BF50-0XB0, 6ES7223-7BF50-0XB0, 6ES7223-7AF50-0XB0, 6ES7232-4HD50-0XB0, 6ES7241-1CA50-0XB0, 6ES7241-1EA50-0XB0, 6ES7231-5PD50-0XB0, 6ES7231-5PB50-0XB0, 6ES7231-5QD50-0XB0, 6ES7231-5QF50-0XB0, 6ES7226-6ME50-0XB0, 6ES7223-5BL50-0XB0, 6ES7223-5BL50-1XB0 and 6ES7297-4AX50-0XA0)

- 生产者应按照认证机构批准的技术文件组织生产。

2、安全使用条件：

- 根据 GB/T 16935.1，该设备只应在污染程度不低于 2 级的区域使用。

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- 根据 GB/T 3836.1, 该设备应安装在能提供最小防护等级为 IP54 的外壳内。
- 瞬态保护应提供不超过设备的供电端子额定峰值电压值 140% 的保护。
- 在不同环境温度下水平或垂直安装时, 某些模块需要降额 50% 使用, 具体见覆盖产品。
- 其他见产品使用说明书。

3、证书变更信息:

- 2025 年 05 月 15 日第 1 次变更: 增加 6ES7231-5PD50-0XB0、6ES7241-1CA50-0XB0 和 6ES7241-1EA50-0XB0 三个模块。
- 2025 年 07 月 01 日第 2 次变更: 增加 6ES7231-5PB50-0XB0、6ES7231-5QD50-0XB0 和 6ES7231-5QF50-0XB0 三个模块。
- 2025 年 12 月 25 日第 3 次变更: 增加 6ES7223-5BL50-0XB0、6ES7223-5BL50-1XB0、6ES7223-5PL50-0XB0、6ES7297-4AX50-0XA0 和 6ES7226-6ME50-0XB0 五个模块。

4、其他生产地址:

序号	生产地址 (生产企业)
地址 2	四川省成都高新西区天源路 99 号 (西门子工业自动化产品 (成都) 有限公司)

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