



**TYPE APPROVAL CERTIFICATE**  
No. **ELE069223XG/001**

**This is to certify** that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

<i>Description</i>	<b>Programmable logic controller</b>
<i>Type</i>	<b>SIMATIC S7-1200</b>
<i>Applicant</i>	<b>Siemens Industry Inc. 1 Internet Plaza, 37604 Johnson City (Tennessee) U.S.A.</b>
<i>Manufacturer</i>	<b>Siemens AG</b>
<i>Place of manufacture</i>	<b>WERNER-VON-SIEMENS-STR. 50 92224 Amberg GERMANY</b>
<i>Reference standards</i>	<b>Rules for the classification of ships.- Part C - Machinery, systems and fire protection. - Ch.3, Sect. 6, Table 1.</b>

*Issued in* **HAMBURG** on **June 23, 2023**. *This Certificate is valid until* **May 11, 2028**

*Giuseppe Russo*

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**RINA Services S.p.A.**  
**Giuseppe Russo**

This certificate consists of this page and 1 enclosure

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**SIMATIC S7-1200**

### Product description:

The **SIMATIC S7-1200** is a modular programmable logic control and I/O system with dedicated I/O Board for the installation on a DIN rail. The system may consist of following components:

Order no.	Designation	Main characteristic
<b>Central Processing Unit:</b>		
6ES7 211	CPU 1211C AC/DC/Relay CPU 1211C DC/DC/Relay CPU 1211C DC/DC/DC	Power Supply: 230V AC; I/O: 6x DI; 2x AI; 4x Relay Power Supply: 24V DC; I/O: 6x DI; 2x AI; 4x Relay Power Supply: 24V DC; I/O: 6x DI; 2x AI; 4x DO
6ES7 212	CPU 1212C AC/DC/Relay CPU 1212C DC/DC/Relay CPU 1212C DC/DC/DC	Power Supply: 230V AC; I/O: 8x DI; 2x AI; 6x Relay Power Supply: 24V DC; I/O: 8x DI; 2x AI; 6x Relay Power Supply: 24V DC; I/O: 8x DI; 2x AI; 6x DO
6ES7 214	CPU 1214C AC/DC/Relay CPU 1214C DC/DC/Relay CPU 1214C DC/DC/DC	Power Supply: 230V AC; I/O: 14x DI; 2x AI; 10x Relay Power Supply: 24V DC; I/O: 14x DI; 2x AI; 10x Relay Power Supply: 24V DC; I/O: 14x DI; 2x AI; 10x DO
6ES7 215	CPU 1215C AC/DC/Relay CPU 1215C DC/DC/Relay CPU 1215C DC/DC/DC	Power Supply: 230V AC; I/O: 14x DI; 2x AI/AO; 10x Relay Power Supply: 24V DC; I/O: 14x DI; 2x AI/AO; 10x Relay Power Supply: 24V DC; I/O: 14x DI; 2x AI/AO; 10x DO
6ES7 217	CPU 1217C DC/DC/DC	Power Supply: 24V DC; I/O: 10x DI; 4x DI RS422/485; 2x AI/AO; 6xDO; 4x DO RS422/485
<b>Signal module:</b>		
6ES7 221	SM 1221 DI 8x24VDC SM 1221 DI 16x24VDC	I/O: 8x DI I/O: 16x DI
6ES7 222	SM 1222 DQ 8x24VDC SM 1222 DQ 16x24VDC SM 1222 DQ 8xRelay SM 1222 DQ 16xRelay	I/O: 8x DO I/O: 16x DO I/O: 8x Relay I/O: 8x Relay
6ES7 223	SM 1223 DI 8x24VDC, DQ 8x24VDC SM 1223 DI 16x24VDC, DQ 16x24VDC SM 1223 DI 8x24VDC, DQ 8xRelay SM 1223 DI 16x24VDC, DQ 16xRelay	I/O: 8x DI; 8x DO I/O: 16x DI; 16x DO I/O: 8x DI; 8x Relay I/O: 16x DI; 16x Relay
6ES7 231	SM 1231 AI 4x13bit SM 1231 AI 8x13bit	I/O: 4x AI I/O: 8x AI
6ES7 232	SM 1232 AQ 2x14bit SM 1232 AQ 4x14bit	I/O: 2x AO I/O: 4x AO
6ES7 234	SM 1234 AI 4x13bit, AQ 2x14bit	I/O: 4x AI; 2x AO
<b>Signal board:</b>		
6ES7 221	SB 1221 DI 4x5VDC 200 kHz SB 1221 DI 4x24VDC 200 kHz	I/O: 4x DI I/O: 4x DI
6ES7 222	SB 1222 DQ 4x5VDC 200 kHz SB 1222 DQ 4x24VDC 200 kHz	I/O: 4x DO I/O: 4x DO
6ES7 223	SB 1223 DI 2x24VDC, DQ 2x24VDC SB 1223 DI 2x / DQ 2x5VDC 200kHz SB 1223 DI 2x /DQ 2x24VDC 200kHz	I/O: 2x DI; 2x DO I/O: 2x DI; 2x DO I/O: 2x DI; 2x DO
6ES7 231	SB 1231 AI 1x12bit SB 1231 AI 1x16bit Thermocouple SB 1231 AI 1x16bit RTD	I/O: 1x AI I/O: 1x AI I/O: 1x AI
6ES7 232	SB 1223 AQ 1x12bit SB 1232 AQ 1x12bit	I/O: 1x AO I/O: 1x AO

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**SIMATIC S7-1200**

Order no.	Designation	Main characteristic
<b>Power supply module and accessories:</b>		
6ES7 954	MMC Memory Cards	2MB - 32GB
6ES7 297	Battery board	Backup via CR1025 battery
<b>Communication module:</b>		
6ES7 241	CM 1241 RS485 CM 1241 RS232 CM/CB 1241 RS422/485	

Degree of protection: IP20

**Documents:**

- System Manual A5E02486680-AP, V4.6 11/2022.
- Operating instructions A5E51784853-AB, 11/2022.

**Test reports:**

**SIAC Test Lab:**

- 210909A\_S7-1200\_Maintenance dated 24 Nov 2021; 220404A\_S7-1200\_Dual\_Phy dated 5 Oct 2022;
- 220824A\_MOSFET\_CPU1215-1217 dated 4 Oct 2022; 190726\_DTC2\_S71200 dated 06 Feb 2020; 180905A\_MAP2\_2\_CM1241 dated 15 Apr 2019; 180905B\_MAP2\_2\_SM1221 dated 15 Apr 2019; 180905C\_MAP2\_2\_SM1222 dated 15 Apr 2019;
- 180905D\_MAP2\_2\_SM1223 dated 15 Apr 2019; 180905H\_MAP2\_2\_SM1231\_4AI dated 15 Apr 2019;
- 180905I\_MAP2\_2\_SM1234\_4AI2AQ dated 15 Apr 2019; 190219\_SinkingDQ dated 6 Aug 2019;
- 191016A\_DTC3\_1212FC\_DCDCDC dated 30 Apr 2020; 191016B\_DTC3\_1212FC\_DCDCRLY dated 30 Apr 2020;
- 191016C\_DTC3\_1214FC\_DCDCDC 30 Apr 2020; 191016D\_DTC3\_1214FC\_DCDCRLY dated 30 Apr 2020;
- 191016E\_DTC3\_1215FC\_DCDCDC 30 Apr 2020; 191016F\_DTC3\_1215FC\_DCDCRLY dated 30 Apr 2020;
- 191016G\_DTC3\_1212C\_ACDCLY dated 20 Jul 2020; 191016H\_DTC3\_1214C\_ACDCLY dated 20 Jul 2020;
- 191016I\_DTC3\_1215C\_ACDCLY dated 20 Jul 2020; 191016J\_DTC3\_1217C\_DCDCDC dated 20 Jul 2020

**SGS:**

- 4577246EMC01 Rev:0 dated 9 Jan 2020; 4627137EMC01 dated 4 Jun 2020; 4434403EMC01 dated 1 Apr 2019; 4471649EMC01 dated 7 Jun 2019; 4822889EMC01; 4822889EMC02; 4822889EMC03; 4822889EMC04 all dated 12 Oct 2021; 4587542EMC01 dated 14 Feb 2020

**Additional manufacturing location:**

Siemens Industrial Automation Products Ltd.  
Chengdu No. 99, Tian Yuan Road,  
High Tech Zone West  
611731 Chengdu City, Sichuan Province  
P.R. CHINA

**Remarks:**

- The products fulfill EC-Code: **EC-Code: 31**
- The equipment fulfils the EMC requirements for installation on the Bridge and Deck Zone by using a filter on power supply lines of type: B84113-C or equivalent with ratings  $C=2x 0.47\mu F + 2x 4700pF$ ,  $L=4x 4.7mH$ , when shielded cables are grounded on both sides and the modules are installed in suitable EMI enclosure of appropriate dimension (Hoffman CONCEPT EMC enclosure or equivalent).
- The Manufacturer's installation recommendation described above regarding surge protection is to be considered.
- Only Hardware and Firmware successfully tested together in compliance with the regulations as referred to in page one, according to the declaration of the manufacturer is covered by this certificate.
- Depending on the application, Factory Acceptance and On-board Tests are to be performed in accordance with requirements for Category II or III Equipment.

**HAMBURG June 23, 2023**

*Giuseppe Russo*