**TYPE APPROVAL CERTIFICATE**
No. **ELE046725XG**

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

| | |
|---|---|
| *Description* | **Programmable logic controller** |
| *Type* | **SIMATIC S7-1500/ET200MP** |
| *Applicant* | **Siemens AG - DI FA SIMATIC TYPE TEST**<br>**WERNER - VON SIEMENS STR. 50**<br>**92224 Amberg**<br>**GERMANY** |
| *Manufacturer* | **SIEMENS AG - AMBERG** |
| *Place of manufacture* | **Werner Von Siemens Str. 50**<br>**D-92224 Amberg**<br>**GERMANY** |
| *Reference standards* | **Rules for the Classification of Ships - Part C - Machinery Systems and Fire Protection; Ch. 3; Sec. 8, Table 1** |

*Issued in* **HAMBURG** on **May 12, 2025**. *This Certificate is valid until* **May 11, 2030**

Giuseppe Russo

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

This certificate consists of this page and 1 enclosure

RINA Services S.p.A.
Via Corsica, 12 - 16128 Genova
Tel +39 010 53851
Fax +39 010 5351000

**TYPE APPROVAL CERTIFICATE**
No. **ELE046725XG**
**Enclosure - Page 1 of 3**
**SIMATIC S7-1500/ET200MP**

## Product description:

The **S7-1500** and **ET200MP** series are modular Programmable Logic Controllers.

| Type | Order no. | Designation |
|---|---|---|
| **S7-1500 / ET 200MP** | 6ES7 511-1AK02-0AB0 | CPU 1511-1 PN |
| | 6ES7 511-1CK01-0AB0 | CPU 1511C-1 PN |
| | 6ES7 511-1AL03-0AB0 | CPU 1511-1 PN |
| | 6ES7 511-1CL03-0AB0 | CPU 1511C-1PN |
| | 6ES7 512-1CK01-0AB0 | CPU 1512C-1 PN |
| | 6ES7 512-1CM03-0AB0 | CPU 1512C-1 PN |
| | 6ES7 513-1AL02-0AB0 | CPU 1513-1 PN |
| | 6ES7 513-1AM03-0AB0 | CPU 1513-1 PN |
| | 6ES7 513-1RL00-0AB0 | CPU 1513R-1 PN |
| | 6ES7 513-1RM03-0AB0 | CPU1513R-1 PN |
| | 6ES7 515-2AM02-0AB0 | CPU 1515-2 PN |
| | 6ES7 515-2AN03-0AB0 | CPU 1515-2 PN |
| | 6ES7 515-2RM00-0AB0 | CPU 1515R-2 PN |
| | 6ES7 515-2RN03-0AB0 | CPU 1515R-2 PN |
| | 6ES7 516-3AN02-0AB0 | CPU 1516-3 PN/DP |
| | 6ES7 516-3AP03-0AB0 | CPU 1516-3 PN/DP |
| | 6ES7 517-3AP00-0AB0 | CPU 1517-3 PN/DP |
| | 6ES7 517-3HP00-0AB0 | CPU 1517H-3 PN |
| | 6ES7 517-3AQ10-0AB0 | CPU 1517-3 PN |
| | 6ES7 518-3AT10-0AB0 | CPU 1518-3 PN |
| | 6ES7 518-4AP00-0AB0 | CPU 1518-4 PN/DP |
| | 6ES7 518-4AP00-3AB0 | CPU 1518-4 PN/DP ODK |
| | 6ES7 518-4AX00-1AB0 | CPU 1518-4 PN/DP MFP |
| **Interface Modules** | 6ES7 155-5AA00-0AA0 | IM 155-5 PN BA |
| | 6ES7 155-5AA00-0AC0 | IM 155-5 PN HF |
| | 6ES7 155-5AA01-0AB0 | IM 155-5 PN ST |
| | 6ES7 155-5BA00-0AB0 | IM 155-5 DP ST |
| | 6ES7 155-5MU00-0CN0 | IM 155-5 MF HF |
| **Digital Input Modules** | 6ES7 521-1BH00-0AB0 | DI 16x24VDC HF |
| | 6ES7 521-1BH10-0AA0 | DI 16x24VDC BA |
| | 6ES7 521-1BH50-0AA0 | DI 16x24VDC SRC BA |
| | 6ES7 521-7BH00-0AB0 | DI 16x24VDC HS |
| | 6ES7 521-1BL00-0AB0 | DI 32x24VDC HF |
| | 6ES7 521-1BL10-0AA0 | DI 32x24VDC BA |
| | 6ES7 521-1BP00-0AA0 | DI 64x24VDC SNK/SRC BA |
| | 6ES7 521-1FH00-0AA0 | DI 16x230VAC BA |
| | 6ES7 521-7EH00-0AB0 | DI 16x24...125V UC HF |
| | 6ES7 521-7TH00-0AB0 | DI 16xNamur HF |
| **Digital Output Modules** | 6ES7 522-1BF00-0AB0 | DQ 8x24VDC/2A HF |
| | 6ES7 522-1BH01-0AB0 | DQ 16x24VDC/0.5A HF |
| | 6ES7 522-1BH10-0AA0 | DQ 16x24VDC/0.5A BA |
| | 6ES7 522-1BL01-0AB0 | DQ 32x24VDC/0.5A HF |
| | 6ES7 522-1BL10-0AA0 | DQ 32x24VDC/0.5A BA |
| | 6ES7 522-1BP00-0AA0 | DQ 64x24VDC/0.3A BA |
| | 6ES7 522-1BP50-0AA0 | DQ 64x24VDC/0.3A SNK BA |
| | 6ES7 522-5EH00-0AB0 | DQ 16x24...48VUC/125VDC/0.5A ST |

RINA Services S.p.A.
Via Corsica, 12 - 16128 Genova
Tel +39 010 53851
Fax +39 010 5351000

**TYPE APPROVAL CERTIFICATE**
No. **ELE046725XG**
**Enclosure - Page 2 of 3**
**SIMATIC S7-1500/ET200MP**

| Type | Order no. | Designation |
|---|---|---|
| **Digital Output Modules** | 6ES7 522-5FF00-0AB0 | DQ 8x230VAC/2A ST (Triac) |
| | 6ES7 522-5FH00-0AB0 | DQ 16x230VAC/1A ST (Triac) |
| | 6ES7 522-5HF00-0AB0 | DQ 8x230VAC/5A ST (Relay) |
| | 6ES7 522-5HH00-0AB0 | DQ 16x230VAC/2A ST (Relay) |
| **Digital Input/Output Modules** | 6ES7 523-1BL00-0AA0 | DI 16x24VDC, DQ 16x24VDC/0.5A BA |
| | 6ES7 523-1BP50-0AA0 | DI 32x24VDC, DQ 32x24VDC/0.3A BA |
| **Analog Input Modules** | 6ES7 531-7KF00-0AB0 | AI 8xU/I/RTD/TC ST |
| | 6ES7 531-7LH00-0AB0 | AI 16xU BA |
| | 6ES7 531-7LK00-0AB0 | AI 24xCVM HF |
| | 6ES7 531-7MH00-0AB0 | AI 16xI BA |
| | 6ES7 531-7NF00-0AB0 | AI 8xU/I HF |
| | 6ES7 531-7NF10-0AB0 | AI 8xU/I HS |
| | 6ES7 531-7PF00-0AB0 | AI 8xU/R/RTD/TC HF |
| | 6ES7 531-7QD00-0AB0 | AI 4xU/I/RTD/TC ST |
| | 6ES7 531-7QF00-0AB0 | AI 8xU/I/R/RTD BA |
| | 6ES7 531-7TF00-0AB0 | AI 8xHART HF |
| **Analog Output Modules** | 6ES7 532-5HD00-0AB0 | AQ 4xU/I ST |
| | 6ES7 532-5HF00-0AB0 | AQ 8xU/I HS |
| | 6ES7 532-5NB00-0AB0 | AQ 2xU/I ST |
| | 6ES7 532-5ND00-0AB0 | AQ 4xU/I HF |
| | 6ES7 532-8TF00-0AB0 | AQ 8xHart HF |
| **Analog Input/Output Module** | 6ES7 534-7QE00-0AB0 | AI 4xU/I/RTD/TC, AQ 2xU/I ST |
| **Communication Modules** | 6ES7 540-1AB00-0AA0 | CM PTP RS422/485 BA |
| | 6ES7 540-1AD00-0AA0 | CM PTP RS232 BA |
| | 6ES7 540-1AB01-0AA0 | CM PTP RS422/485 BA |
| | 6ES7 540-1AD01-0AA0 | CM PTP RS232 BA |
| | 6ES7 541-1AB01-0AB0 | CM PTP RS422/485 HF |
| | 6ES7 541-1AD01-0AB0 | CM PTP RS232 HF |
| | 6ES7 547-1JF00-0AB0 | CM 8xIO-Link |
| | 6ES7 541-1AB00-0AB0 | CM PTP RS422/485 HF |
| | 6ES7 541-1AD00-0AB0 | CM PTP RS232 HF |
| **Technology Modules** | 6ES7 550-1AA00-0AB0 | TM Count 2x24V |
| | 6ES7 550-1AA01-0AB0 | TM Count 2x24V |
| | 6ES7 558-1AA00-0AB0 | TM MFP |
| | 6ES7 551-1AB00-0AB0 | TM Posinput 2 |
| | 6ES7 551-1AB01-0AB0 | TM Posinput 2 |
| | 6ES7 552-1AA00-0AB0 | TM Timer DIDQ 16x24V |
| | 6ES7 552-1AA01-0AB0 | TM Timer 24v24V DIDQ |
| | 6ES7 553-1AA01-0AA0 | TM PTO 4 |
| **Active Backplane** | 6ES7 590-0BD00-0AA0 | 4 slot |
| | 6ES7 590-0BH00-0AA0 | 8 slot |
| | 6ES7 590-0BL00-0AA0 | 12 slot |
| **System power supply** | 6ES7 505-0KA00-0AB0 | PS 25W 24V DC |
| | 6ES7 505-0RA00-0AB0 | PS 60W 24/48/60V DC |
| | 6ES7 505-0RB00-0AB0 | PS 60W 24/48/60V DC HF |
| | 6ES7 507-0RA00-0AB0 | PS 60W 120/230V AC/DC |
| **Memory Cards** | 6ES7 954-8LC03-0AA0 | 4 MB |
| | 6ES7 954-8LC04-0AA0 | 4 MB |

RINA Services S.p.A.
Via Corsica, 12 - 16128 Genova
Tel +39 010 53851
Fax +39 010 5351000

**TYPE APPROVAL CERTIFICATE**
No. **ELE046725XG**
**Enclosure - Page 3 of 3**
**SIMATIC S7-1500/ET200MP**

| Type | Order no. | Designation |
|---|---|---|
| **Memory Cards** | 6ES7 954-8LE03-0AA0 | 12 MB |
| | 6ES7 954-8LE04-0AA0 | 12 MB |
| | 6ES7 954-8LF03-0AA0 | 24 MB |
| | 6ES7 954-8LF04-0AA0 | 24 MB |
| | 6ES7 954-8LL03-0AA0 | 256 MB |
| | 6ES7 954-8LL04-0AA0 | 256 MB |
| | 6ES7 954-8LP02-0AA0 | 2 GB |
| | 6ES7 954-8LP03-0AA0 | 2 GB |
| | 6ES7 954-8LP80-0AA0 | 2 GB |
| | 6ES7 954-8LP04-0AA0 | 2GB |
| | 6ES7 954-8LT03-0AA0 | 32 GB |
| | 6ES7 954-8LT80-0AA0 | 32 GB |
| | 6ES7 954-8LT04-0AA0 | 32 GB |

Power supply: 24V DC or 230V AC
Degree of protection: IP20

## Documents:

- A5E03461182-AD dated 09/2016; A5E03612323-02 dated 08/2013; A5E32346748-AA dated 08/2013
- A5E03461486-AB dated 06/2014; A5E03461182-AE dated 12/2017; A5E03461182-AG dated 05/2021

## Test reports:

**SIEMENS AG:**

- SIMATIC Type Test - 2015-02 dated 17.08.2015; I IA AS RD ST Type Test 2013-03 dated 10.12.2013
- SIMATIC Type Test - 2018-04 dated 04.04.2019;
- SIMATIC Type Test - 2021-05 dated 04.10.2021;
- SIMATIC Type Test - 2021-06 dated 04.10.2021;
- SIMATIC Type Test - 2023-02 dated 31.05.2023;
- SIMATIC Type Test - 2024-02 dated 10.04.2024;
- SIMATIC Type Test - 2025-S002 dated 23.01.2025;

## 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

Siemens AG
Breslauer Strasse 5
90766 Fürth
Germany

## Remarks:

- The products fulfill **EC Code: 31**.
- The equipment fulfils the EMC requirements for installation on Bridge and Deck Zone by using a filter on power supply lines, order no.: B84113-C-B30 or equivalent with ratings C=2x 0.47µF + 2x 4700pF, L=4x 4.7mH is used.
- The Manufacturer's installation recommendation described above regarding surge protection is to be considered.
- The modules: TM-Count, TM-PosInput fulfil the EMC requirements for installation in General Power Distribution Zones only.
- 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.
- Supply voltage for 6ES7 547-1JF00-0AB0 (CM 8xIO-Link) Ue min 20 V DC (not allowed for Battery power voltage).
- Installation of the units as per manufacturer's instructions.

**HAMBURG May 12, 2025**

Giuseppe Russo

RINA Services S.p.A.
Via Corsica, 12 - 16128 Genova
Tel +39 010 53851
Fax +39 010 5351000