



TYPE APPROVAL CERTIFICATE
No. ELE333923XG

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>	Programmable logic controller
<i>Type</i>	SIMATIC S7-1500/ET200MP
<i>Applicant</i>	Siemens AG - DI FA SIMATIC TYPE TEST WERNER - VON SIEMENS STR. 50 92224 Amberg GERMANY
<i>Manufacturer</i>	SIEMENS AG - AMBERG
<i>Place of manufacture</i>	Werner Von Siemens Str. 50 D-92224 Amberg GERMANY
<i>Reference standards</i>	Rules for the classification of ships.- Part C - Machinery, systems and fire protection. - Ch.3, Sect. 6, Table 1.

Issued in **HAMBURG** on **December 19, 2023**. *This Certificate is valid until* **December 18, 2028**

RINA Services S.p.A.
Giuseppe Russo

This certificate consists of this page and 1 enclosure

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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 512-1CK01-0AB0	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 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
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	
	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)		

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Type	Order no.	Designation	
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 531-7MH00-0AB0	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	
Analog Input/Output Module	6ES7 534-7QE00-0AB0	AI 4xU/I/RTD/TC, AQ 2xU/I ST	
	6ES7 540-1AB00-0AA0	CM PTP RS422/485 BA	
Communication Modules	6ES7 540-1AD00-0AA0	CM PTP RS232 BA	
	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	
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 954-8LE03-0AA0	12 MB	
	6ES7 954-8LF03-0AA0	24 MB	
	6ES7 954-8LL03-0AA0	256 MB	
	6ES7 954-8LP02-0AA0	2 GB	
	6ES7 954-8LP03-0AA0	2 GB	
	6ES7 954-8LT03-0AA0	32 GB	

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

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SIMATIC S7-1500/ET200MP

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;

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 December 19, 2023

Giuseppe Russo