



Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer	Siemens AG
Address	DI FA SIMATIC Type Test, Werner-von-Siemens-Strasse 50, Amberg, 92224, Germany
Place of Production	Siemens AG Breslauer Straße 5, 90766 Fürth, Germany
Place of Production	Siemens Industrial Automation Products Ltd., Chengdu No 99 Tianyuan Road Hi-tech West, District, Chengdu, 611731, China
Place of Production	Siemens AG Elektronikwerk, Werner-von-Siemens-Strasse 50, Amberg, 92224, Germany
Type	Control Units
Description	Programmable Logic Controller Refer to the Appendix for details.
Trade Name	SIMATIC S7 - 300
Application	Marine, offshore and industrial applications for use in environmental categories ENV1, ENV2 and ENV3 as defined in Lloyd's Register's Type Approval System, Test Specification Number 1 - 1996.

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Specified Standard	Manufacturer's specification IACS unified requirements E10 (Rev.8 Feb 2021)
Ratings	Power supply: 120/230 VAC, 50/60 Hz 24 VDC
Other Conditions	Operational limitations for use in hazardous areas are to be obtained from the relevant Ex-Certificates. Digital input module 6ES7 321 and digital output module 6ES7 322 are to be installed in an RF shielded enclosure (type AE1039.70 manufactured by Rittal or equivalent) with minimum 30 dB shielding between 156 to 165 MHz to satisfy the EMC requirements for radiated emissions.

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

Previous Version: 98-20056(E11)-03

The Design Appraisal Document HPC1862099-23/TW and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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Appendix

TYPES

Power Supply Modules:

6ES7 307-1BA01-0AA0	SIMATIC PS307, 120/230VAC/DC24V/2A
6ES7 307-1EA01-0AA0	SIMATIC PS307, 120/230VAC/DC24V/5A
6ES7 307-1KA02-0AA0	SIMATIC PS307, 120/230VAC/DC24V/10A

Interface Modules

6ES7 174-0AA10-0AA0	IM174
6ES7 360-3AA01-0AA0	IM360
6ES7 361-3CA01-0AA0	IM361
6ES7 365-0BA01-0AA0	IM365

Central Processing Modules:

6ES7 312-1AE14-0AB0	CPU312
6ES7 312-5BF04-0AB0	CPU312C
6ES7 313-5BG04-0AB0	CPU313C
6ES7 313-6BG04-0AB0	CPU313C-2 PTP
6ES7 313-6CG04-0AB0	CPU313C-2 DP
6ES7 314-1AG14-0AB0	CPU314
6ES7 314-6BH04-0AB0	CPU314C-2 PTP
6ES7 314-6CH04-0AB0	CPU314C-2 DP
6ES7 314-6EH04-0AB0	CPU314C-2 PN/DP
6ES7 315-2AH14-0AB0	CPU315-2 DP
6ES7 315-2EH14-0AB0	CPU315-2 PN/DP
6ES7 315-7TJ10-0AB0	CPU315T-3 PN/DP
6ES7 317-2AK14-0AB0	CPU317-2 DP
6ES7 317-2EK14-0AB0	CPU317-2 PN/DP
6ES7 317-7TK10-0AB0	CPU317T-3 PN/DP
6ES7 318-3EL01-0AB0	CPU319-3 PN/DP

Simulator Module:

6ES7 374-2XH01-0AA0	SM374
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Digital Input Modules:

6ES7 321-1BH02-0AA0	SM321
6ES7 321-1BH10-0AA0	SM321
6ES7 321-1BH50-0AA0	SM321
6ES7 321-1BL00-0AA0	SM321
6ES7 321-1BP00-0AA0	SM321
6ES7 321-1CH00-0AA0	SM321
6ES7 321-1CH20-0AA0	SM321
6ES7 321-7BH01-0AB0	SM321
6ES7 321-1EL00-0AA0	SM321
6ES7 321-1FF01-0AA0	SM321
6ES7 321-1FF10-0AA0	SM321
6ES7 321-1FH00-0AA0	SM321

Digital Output Modules:

6ES7 322-1BF01-0AA0	SM322
6ES7 322-1BH01-0AA0	SM322
6ES7 322-1BH10-0AA0	SM322
6ES7 322-1BL00-0AA0	SM322
6ES7 322-1BP00-0AA0	SM322
6ES7 322-1BP50-0AA0	SM322
6ES7 322-5GH00-0AB0	SM322
6ES7 322-5HF00-0AB0	SM322
6ES7 322-8BF00-0AB0	SM322
6ES7 322-1CF00-0AA0	SM322
6ES7 322-1FF01-0AA0	SM322
6ES7 322-1FH00-0AA0	SM322
6ES7 322-1FL00-0AA0	SM322
6ES7 322-1HF01-0AA0	SM322
6ES7 322-1HF10-0AA0	SM322
6ES7 322-1HH01-0AA0	SM322
6ES7 322-5FF00-0AA0	SM322

Digital Input/Output Modules:

6ES7 323-1BH01-0AA0	SM323
6ES7 323-1BL00-0AA0	SM323
6ES7 327-1BH00-0AB0	SM327



Analog Input Modules:

6ES7 331-1KF02-0AB0	SM331
6ES7 331-7HF01-0AB0	SM331
6ES7 331-7KB02-0AB0	SM331
6ES7 331-7KF02-0AB0	SM331
6ES7 331-7NF00-0AB0	SM331
6ES7 331-7NF10-0AB0	SM331
6ES7 331-7PE10-0AB0	SM331
6ES7 331-7PF01-0AB0	SM331
6ES7 331-7PF11-0AB0	SM331
6ES7 338-4BC01-0AB0	SM338

Analog Output Modules:

6ES7 332-5HB01-0AB0	SM332
6ES7 332-5HD01-0AB0	SM332
6ES7 332-5HF00-0AB0	SM332
6ES7 332-7ND02-0AB0	SM332

Analog Input/Output Modules:

6ES7 334-0CE01-0AA0	SM334
6ES7 334-0KE00-0AB0	SM334
6ES7 335-7HG02-0AB0	SM335

Dummy Module:

6ES7 370-0AA01-0AA0	DM370
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Communication Modules:

6ES7 340-1AH02-0AE0	CP340
6ES7 340-1BH02-0AE0	CP340
6ES7 340-1CH02-0AE0	CP340
6ES7 341-1AH02-0AE0	CP341
6ES7 341-1BH02-0AE0	CP341
6ES7 341-1CH02-0AE0	CP341

Function Modules:

6ES7 350-1AH03-0AE0	FM350
6ES7 350-2AH01-0AE0	FM350
6ES7 351-1AH02-0AE0	FM351



6ES7 352-1AH02-0AEO	FM352
6ES7 352-5AH01-0AEO	FM352
6ES7 352-5AH11-0AEO	FM352
6ES7 355-0VH10-0AEO	FM355
6ES7 355-1VH10-0AEO	FM355
6ES7 355-2CH00-0AEO	FM355
6ES7 355-2SH00-0AEO	FM355

