Type Approval Certificate

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

Certificate No.	**12 049 - 98 HH**
Company	**Siemens AG** **I IA AS Betrieb Amberg** **Werner-von-Siemens-Str. 50** **92209 Amberg, GERMANY**
Product Description	**Programmable Logic Controller SIMATIC S7 - 300** **Modular Automation Computer SIMATIC M7 - 300**
Type	**6ES7 178 and 174, 6ES7 3..., 6ES7 EXM/MSM 378, 6ES7 9..** **6GK7 342-343; SM 3..; 6ES7 157, 6ES7 614; 6ES7 677**
Environmental Category	**C, EMC2**
Technical Data / Range of Application	**6ES7 178: interface modul IM 178** **6ES7 174: interface modul IM 174** **6ES7 307-xxx: power supply 120 / 230 V AC** **6ES7 312...318,-614 CPU; CPU 319-3 PN/DP** **EEPROM -951, -952; -953; CPU 614+C-Interface** **6ES7 312-314C: Compact CPU's** **6ES7 312M-1; -314M-1and -315M-2DP : Modulare CPU's** **6ES7 315: CPU315T-3PN/DP** **6ES7 315: CPU315F-2DP, CPU315F-2PN/DP (Safety related CPU)** **6ES7 317: CPU317-2DP, CPU317-PN/DP, CPU317T-2DP, CPU317T-3 PN/DP** **6ES7 317: CPU317F-2DP, CPU317F-2PN/DP, CPU317TF-3 PN/DP (Safety related CPU)** **6ES7 677: Embedded Controller** **Firmware: Version V5.4; Version V3.2 (Safety related CPU)** **Tests and evidence according Requirement class 3**
Test Standard	**Guidelines for the Performance of Type Approvals VI-7-2 Edition 2012** **Regulations for the Use of Computers and Computer Systems**
Documents	**03-M394 dated 09-05-2003, 03-M484 dated 02-07-2003 and 03-M311 dated 12-05-2003; 15/2003 dated 13-05-2003, 03-M281 dated 16-04-2003; 21/2003 dated 06-08-2003; 35/2003 dated 17-09-2003, EMC 04-M060 1254-A1 dated 27-02-2004; A&D AS RD ST Type Test-0606**
Remarks	*** Please see note under Technical Data Page 2**

Valid until **2018-07-03**
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File No. **I.B.07**

Hamburg, 2014-01-16

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6ES7 321-323: 16/32 DI; 8/16/32 DO, 8/8;16/16 DI/DO; 8/8, 16/16 DI/DO; 16 ch Relay; 64 DI; 64 DO
SM321 and SM 322* S7-300 Modules
***S7-300 Modules SM 321 (64 DI) and SM 322 (64 DO) are to be installed in an RF shielded enclosure with minimum 30 dB shielding between 156 to 165 MHz equivalent to satisfy the EMC requirements for radiated emissions in the range 30 MHz -2 GHz**
6ES7 326: Fail-safe SM 326, DI 8/24 DO, 10 max. 2A; DI 24/ DO 8
6ES7 327: DI 8/DX8, 24 V DC / 0.5 A DX8: Inputs or Outputs
6ES7 331: 2/8 analog inputs, max. 20 V DC, max. 40 mA DC
6ES7 332: 2/4/8 analog outputs, max. 10 V DC, max. 20 mA
6ES7 334: 4 analog inputs (20 V, 40 mA), 2 analog outputs (10 V, 20 mA)
6ES7 335: 4 analog inputs (20 V, 40 mA), 4 analog outputs (10 V, 20 mA)

6ES7 336: Fail-safe SM 336, 6 analog inputs (30V, 40mA)
6ES7 338:Measure position module SM 338; 8 x IQ Sense
6ES7 340-341: serial communication, RS 232, TTY, RS 422/485
6ES7 350-357: counter, positioning module, application module
6ES7 360: interface module for 1 expansion unit
6ES7 361/ 6ES7 365: interface module for up to 3 or 2 expansion units
6ES7 374: Simulator module SM 374, 16 Inputs/Outputs, 16 Switches, 16 LED's
6ES7 EXM/MSM 378: expansion module / 500 MB mass storage module
6ES7 388: M7-300 CPU 50 MHz, 8MB RAM, 64 KB SRAM
6ES7 961: 8 DI,8 DO, or 4 AI/AO
ES7 962;964: interface submodule LPT, VGA monitor; PROFIBUS-DP

6GK7 342: Communication processor CP 342, RS 422/485 / ASI
6GK7 343: Communication processor CP 343, RS 422/485 / ASI / Ethernet

KEMA Certified safe type modules: II 3 (2) G EEx nA [ib] IIC T4*

6ES7

SM 321-7RD00-0AB0:	Ex Digital input modul	KEMA01ATEX1057X
SM 326-1RF00-0AB0:	Ex Digital input modul	KEMA 99ATEX2671 X
SM 322-5SD00-0AB0:	Ex Digital output modul	KEMA01ATEX1059X
SM 322-5RD00-0AB0:	Ex Digital output modul	KEMA01ATEX1056X

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SM 331-7SF00-0AB0: Ex Analog input modul	KEMA01ATEX1061X
SM 331-7RD00-0AB0: Ex Analog input modul	KEMA01ATEX1060 X
SM 331-7TB00-0AB0: Ex Analog input modul	KEMA 97ATEX3039 X
SM 332-5RD00-0AB0: Ex Analog output modul	KEMA01ATEX1062X
SM 332-5TB00-0AB0: Ex Analog output modul	KEMA 98ATEX2359 X

II 3 (1) G EEx nA [ia] IIC T4*
6ES7 157-0AD81-0XA0: Ex Coupler DP/PA — KEMA 01ATEX1028 X

II 3 (1) GD EEx nA [ia] IIC T4*
6ES7 157-0AD82-0XA0: Ex Coupler DP/PA — KEMA 03ATEX1416 X

*for information only

Additional Documentation:
Software according Requirement Class 3 dated 04-02-2002
TÜV Z2020320411009 dated 20-12-2002, Z10 05 08 20411 002 dated 17-08-2005 and Z10 09 07 67803 003 Rev. 1.1 dated 2013-06-25
AUT 7-B 8.4P - 9603, 01049WZs dated 10-05-2001, 17/2001 dated 27-09-2001, 01-M272 dated 12-09-2001
Test Report: I IA AS RD ST Type Test-04/09 dated 28-05-2009 and 09-E003881-BM-A01dated 15-04-2009
Manual S7-300 CPU 31xT-3 PN/DP A5E01672598-03 dated 06-2013

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