



Member of the FM Global Group

FM Approvals
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CERTIFICATE OF COMPLIANCE

HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

6ES7 Series. SIMATIC S7-300 System & ET200M System Modules

NI/I/2/ABCD/T*

NI/I/2/IIC/T**

Model No.	Description	T-Code*	T-Code**	Tambient
6ES7 317-6TJ10-a	Central Processing Unit, CPU 317T-2DP	T4	T4	60 °C
6ES7 321-1CH00-a	16 Channel, 24/48V Digital Input Module	T4	T4	60 °C
6ES7 321-1CH20-a	Input Module; 16 channel, 48/120V dc	T4	T4	60 °C
6ES7 321-1EL00-a	Input Module, 32 Point; 120Vac	T4	T4	60 °C
6ES7 321-1FF01-a	8 Channel DI Module, 120/230Vac	T4	T4	60 °C
6ES7 321-1FF10-a	120/230 V Digital Input Module	T4	T4	60 °C
6ES7 321-1FH00-a	16 Channel DI Module, 120/230Vac	T4	T4	60 °C
6ES7 322-1CF00-a	Output Module; 8 channel, 48/120Vdc	T4	T4	60 °C
6ES7 322-1FF01-a	8 Channel DO Module, 120/230Vac	T4	T4	60 °C
6ES7 322-1FH00-a	16 Channel DO Module, 120/230Vac	T4	T4	60 °C
6ES7 322-1FL00-a	32 Channel DO Module, 120/230Vac	T4	T4	60 °C
6ES7 322-5FF00-a	120/230 V Digital Output Module	T4	T4	60 °C
6ES7 322-5GH00-a	16 Channel, 24/48V Digital Output Module	T4	T4	60 °C
6ES7 322-5HF00-a	230 V Relay Output Module	T4	T4	60 °C
6ES7 326-1BK01-a	Failsafe Digital I/O Module	T5	T5	60 °C
6ES7 326-2BF40-a	Failsafe Digital I/O Module	T5	T5	60 °C
6ES7 331-7NF00-a	Analog Input Module; 8 Point	T4	T4	60 °C



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Model No.	Description	T-Code*	T-Code**	Tambient
6ES7 331-7NF10-a	Thermocouple Module	T4	T4	60 °C
6ES7 331-7PF01-a	RTD Module	T4	T4	60 °C
6ES7 331-7PF11-a	Thermocouple Module	T4	T4	60 °C
6ES7 332-7ND02-a	Analog Output Module, 4 Point	T4	T4	60 °C
6ES7 341-1AH01-a	Communication Processor CP 341 RS 232	T4A	T4	60 °C
6ES7 341-1BH01-a	Communication Processor CP 341 TTY	T4A	T4	60 °C
6ES7 341-1CH01-a	Communication Processor CP 341 RS 485	T4A	T4	60 °C
6ES7 352-5AH00-a	FM352-5 Boolean Co-Processor	T4	T4	60 °C
6ES7 352-5AH10-a	FM352-5 Boolean Processor, DI 12/DO 8 x 24 Vdc/0.5 A	T4	T4	60 °C
6ES7 360-3AA01-a	Interface Module	T4A	T4	60 °C
6ES7 361-3CA01-a	Interface Module	T4A	T4	60 °C
6ES7 365-0BA01-a	Interface Module	T4A	T4	60 °C
6ES7 374-2XH01-a	Simulator Module	T4A	T4	60 °C
6ES7 972-0AB01-a	Diagnostic Repeater	T4A	T4	60 °C

a = Options not affecting safety, any 2 or 4 digit letter or number referring to non-electrical properties as product associates, language, delivery packing, documentation, etc.

Special Conditions of Use:

1. Shall be installed in compliance with the enclosure, mounting, spacing and segregation requirements of the ultimate application, including a tool removable cover.

Equipment Ratings:

Nonincendive for Class I, Division 2, Groups A, B, C & D, and Class I, Zone 2, Group IIC Hazardous (Classified) indoor Locations

This certifies that the equipment described has been found to comply with the following Approval Standards and other documents:

Class 3600	1998
Class 3611	1999
Class 3810	1989

6ES7 Series. SIMATIC S7-300 System & ET200M System Modules

NI/I/2/ABCD/T*

NI/I/2/IIC/T**

Model No.	Description	T-Code*	T-Code**	Tambient
6ES7 153-1AA03-a	Supply and I/O Module	T4A	T4	60°C
6ES7 153-2AB03-a	Interface Module IM 153-2-FO	T5	T5	60°C
6ES7 153-2BA00-a	Interface Module IM 153-2-CU	T4A	T4	60°C
6ES7 153-2BA01-a	Interface Module IM 153-2	T5	T5	60 °C
6ES7 153-2BA02-a	Interface Module IM 153-2	T4A	T4	60 °C
6ES7 153-2BA81-a	Interface Module IM 153-2 (Outdoor)	T5	T5	60 °C
6ES7 153-2BA82-a	Interface Module IM 153-2 (Outdoor)	T4A	T4	60 °C
6ES7 153-2BB00-a	Interface Module IM 153-2-FO	T4A	T4	60°C
6ES7 153-4AA00-a	IM 153-4 PN Interface Module	T4	T4	60 °C
6ES7 153-4AA01-a	IM 153-4 PN	T4	T4	60 °C
6ES7 174-0AA00-a	Interface Module IM 174 (Horizontal Mounting)	T4	T4	60 °C
6ES7 174-0AA10-a	Interface Module IM 174	T4	T4	60 °C
6ES7 312-1AD10-a	Central Processing unit, CPU 312M-1	T5	T5	60 °C
6ES7 312-1AE13-a	Central Processing unit, CPU 312M-1	T5	T5	60 °C
6ES7 312-1AE14-a	Central Processing Unit, CPU 312	T4	T4	60 °C
6ES7 312-5BD00-a	CPU 312C	T4A	T4	60 °C
6ES7 312-5BD01-a	Central Processing Unit/Input/Output Module, CPU 312C	T4	T4	60 °C
6ES7 312-5BE03-a	Central Processing Unit/Input/Output Module, CPU 312C	T4	T4	60 °C
6ES7 313-5BE00-a	CPU 313C	T4A	T4	60 °C
6ES7 313-5BE01-a	Central Processing Unit/Input/Output Module CPU 313C	T4	T4	60 °C
6ES7 313-5BF03-a	Central Processing Unit/Input/Output Module CPU 313C	T4	T4	60 °C
6ES7 313-6BE00-a	313C-2 PtP	T4A	T4	60 °C
6ES7 313-6BE01-a	Central Processing Unit/Input/Output Module, CPU 313C-2 PtP	T4	T4	60 °C
6ES7 313-6BF03-a	Central Processing Unit/Input/Output Module, CPU 313C-2 PtP	T4	T4	60 °C
6ES7 313-6CE00-a	CPU 313-2 DP	T4A	T4	60 °C
6ES7 313-6CE01-a	Central Processing Unit/Input/Output Module, CPU 313C-2 DP	T4	T4	60 °C
6ES7 313-6CF03-a	Central Processing Unit/Input/Output Module, CPU 313C-2 DP	T4	T4	60 °C
6ES7 314-1AF10-a	Central Processing Unit, CPU 314M-1	T5	T5	60 °C
6ES7 314-1AF11-a	Central Processing Unit, CPU 314M-1	T5	T5	60 °C
6ES7 314-1AG13-a	Central Processing Unit, CPU 314M-1	T5	T5	60 °C
6ES7 314-1AG14-a	Central Processing Unit, CPU 314	T4	T4	60 °C



Model No.	Description	T-Code*	T-Code**	Tambient
6ES7 314-6BF00-a	CPU 314C-2 PtP	T4A	T4	60 °C
6ES7 314-6BF01-a	Central Processing Unit/Input/Output Module, CPU 314C-2 PtP	T4	T4	60 °C
6ES7 314-6BF02-a	Central Processing Unit/Input/Output Module, CPU 314C-2 PtP	T4	T4	60 °C
6ES7 314-6BG03-a	Central Processing Unit/Input/Output Module, CPU 314C-2 PtP	T4	T4	60 °C
6ES7 314-6CF00-a	CPU 314C-2 DP	T4A	T4	60 °C
6ES7 314-6CF01-a	Central Processing Unit/Input/Output Module, CPU 314C-2 DP	T4	T4	60 °C
6ES7 314-6CF02-a	Central Processing Unit/Input/Output Module, CPU 314C-2 DP	T4	T4	60 °C
6ES7 314-6CG03-a	Central Processing Unit/Input/Output Module, CPU 314C-2 DP	T4	T4	60 °C
6ES7 315-2AG10-a	Central Processing Unit, CPU 315M-2 DP	T4A	T4	60 °C
6ES7 315-2AH14-a	Central Processing Unit, CPU 315-2DP	T4	T4	60 °C
6ES7 315-2EG10-a	Central Processing Unit, CPU 315-2PN/DP	T4	T4	60 °C
6ES7 315-2EH13-a	Central Processing Unit, CPU 315-2PN/DP	T4	T4	60 °C
6ES7 315-2EH14-a	Central Processing Unit, CPU 315-2PN/DP	T4	T4	60 °C
6ES7 315-2FH10-a	Central Processing Unit, CPU 315F-2PN/DP	T4	T4	60 °C
6ES7 315-2FH13-a	Central Processing Unit, CPU 315F-2PN/DP	T4	T4	60 °C
6ES7 315-2FJ14-a	Central Processing Unit, CPU 315F-2PN/DP	T4	T4	60 °C
6ES7 315-6FF00-a	CPU 315F-2 DP	T4A	T4	60 °C
6ES7 315-6FF01-a	Central Processing Unit, CPU 315F-2 DP	T4A	T4	60 °C
6ES7 315-6FF04-a	Central Processing Unit, CPU 315F-2DP	T4	T4	60 °C
6ES7 315-6TH13-a	Central Processing Unit, CPU 315T-2DP	T4	T4	60 °C
6ES7 317-2AJ10-a	Central Processing Unit, CPU 317-2 DP	T4	T4	60 °C
6ES7 317-2EJ10-a	Central Processing Unit, CPU 317-PN/DP	T4	T4	60 °C
6ES7 317-2EK13-a	Central Processing Unit, CPU 317-PN/DP	T4	T4	60 °C
6ES7 317-2EK14-a	Central Processing Unit, CPU 317-2PN/DP	T4	T4	60 °C
6ES7 317-2FJ10-a	Central Processing Unit, CPU 317F-2PN/DP	T4	T4	60 °C
6ES7 317-2FK13-a	Central Processing Unit, CPU 317F-2PN/DP	T4	T4	60 °C
6ES7 317-2FK14-a	Central Processing Unit, CPU 317F-2PN/DP	T4	T4	60 °C
6ES7 317-6FF00-a	Central Processing Unit, CPU 317F-2 DP	T4	T4	60 °C
6ES7 317-6FF03-a	Central Processing Unit, CPU 317F-2 DP	T4	T4	60 °C
6ES7 317-6TF14-a	Central Processing Unit, CPU 317TF-2DP	T4	T4	60 °C
6ES7 317-6TK13-a	Central Processing Unit, CPU 317T-2DP	T4	T4	60 °C
6ES7 318-3EL00-a	Central Processing Unit, CPU 319-3 PN/DP	T4	T4	60 °C
6ES7 318-3EL01-a	Central Processing Unit, CPU 319-3 PN/DP	T4	T4	60 °C
6ES7 318-3FL00-a	Central Processing Unit, CPU 319F-3 PN/DP	T4	T4	60 °C



Model No.	Description	T-Code*	T-Code**	Tambient
6ES7 318-3FL01-a	Central Processing Unit, CPU 319F-3 PN/DP	T4	T4	60 °C
6ES7 321-1BH02-a	Digital Input Module, 16 channel	T4	T4	60 °C
6ES7 321-1BH10-a	SM 321 DI16xDC24V, High-speed	T4A	T4	60 °C
6ES7 321-1BH50-a	Digital Input Module, 16 channel	T4	T4	60 °C
6ES7 321-1BH82-1	Digital Input Module, 16 channel	T4	T4	60 °C
6ES7 321-1BL00-a	Digital Input Module, 32 channel	T4	T4	60 °C
6ES7 321-1BL80-a	Digital Input Module, 32 channel	T4	T4	60 °C
6ES7 321-1BP00-a	SM 321 DI 64 x DC 24V Sourcing/Sinking Module	T4	T4	60 °C
6ES7 321-7BH01-a	Digital Input Module, 16 channel	T4	T4	60 °C
6ES7 321-7BH81-a	Digital Input Module, 16 channel	T4	T4	60 °C
6ES7 321-7RD00-a	Digital Input Module, 4 channel	T4	T4	60 °C
6ES7 321-7TH00-a	Digital Input Module, 16 channel	T4A	T4	60 °C
6ES7 322-1BF01-a	Digital Output Module	T4	T4	60 °C
6ES7 322-1BH01-a	Digital Output Module, 16 channel	T4A	T4	60 °C
6ES7 322-1BH10-a	SM 322 DO16xDC24V/0.5A High-speed	T4A	T4	60 °C
6ES7 322-1BH81-a	Digital Output Module, 16 channel	T4A	T4	60 °C
6ES7 322-1BL00-a	Digital Output Module, 32 channel	T4A	T4	60 °C
6ES7 322-1BP00-a	SM 322 DO 64 x DC 24V Sourcing Module	T4	T4	60 °C
6ES7 322-1BP50-a	SM 322 DO 64 x DC 24V Sinking Module	T4	T4	60 °C
6ES7 322-1HF01-a	Digital Output Module, 8 channel	T4A	T4	60 °C
6ES7 322-1HF10-a	Digital Output Module (8 Channels)	T4A	T4	60 °C
6ES7 322-1HF80-a	Digital Output Module	T4A	T4	60 °C
6ES7 322-1HH01-a	Digital Output Module, Relay 16 channel	T4A	T4	60 °C
6ES7 322-5RD00-a	Digital Output Module, 4 channel	T4	T4	60 °C
6ES7 322-5SD00-a	Digital Output Module, 4 channel	T4	T4	60 °C
6ES7 322-8BF00-a	Digital Output Module, 8 channel	T4A	T4	60 °C
6ES7 322-8BF80-a	Digital Output Module, 8 channel	T4A	T4	60 °C
6ES7 322-8BH01-a	Digital Output Module, 16 channel	T4A	T4	60 °C
6ES7 323-1BH01-a	Digital I/O Module, 8 I/O channel	T4A	T4	60 °C
6ES7 323-1BH81-a	Digital I/O Module, 8 I/O channel	T4A	T4	60 °C
6ES7 323-1BL00-a	Digital I/O Module, 16 I/O channel	T4A	T4	60 °C
6ES7-326-1BK02-a	SM 326 F-DI 24V	T5	T5	60 °C
6ES7 326-2BF10-a	SM 326 10F-DO	T4	T4	60 °C
6ES7-326-2BF41-a	SM 326 F-DO PM 8xDC 24V72A	T5	T5	60 °C
6ES7 327-1BH00-a	DI8/DX8	T4	T4	60 °C
6ES7 331-1KF01-a	Analog Input Module, 8 channel	T6	T6	60 °C



Model No.	Description	T-Code*	T-Code**	Member of the FM Global Group Tambient
6ES7 331-1KF02-a	Analog Input Module, 8 channel	T6	T6	60 °C
6ES7 331-7HF01-a	Analog Input Module, 8 channel	T5	T5	60 °C
6ES7 331-7KB02-a	Analog Input Module, 2 channel	T4A	T4	60 °C
6ES7 331-7KB82-a	Analog Input Module, 2 channel	T4A	T4	60 °C
6ES7 331-7KF02-a	Analog Input Module, 8 channel	T4A	T4	60 °C
6ES7 331-7PE10-a	SM 331 AI 6-Ch 16bit TC	T4	T4	60 °C
6ES7 331-7RD00-a	Analog Input Module, 4 channel	T4	T4	60 °C
6ES7 331-7SF00-a	Analog Input Module, 4 channel	T4	T4	60 °C
6ES7 331-7TF00-a	8 Analog Input Module, HART	T4	T4	60 °C
6ES7 331-7TF01-a	8 Analog Input Module, HART	T4	T4	60 °C
6ES7 332-5HB01-a	Analog Output Module, 2 channel	T4A	T4	60 °C
6ES7 332-5HB81-a	Analog Output Module, 2 channel	T4A	T4	60 °C
6ES7 332-5HD01-a	Analog Output Module, 4 channel	T4A	T4	60 °C
6ES7 332-5HF00-a	Analog Output Module, 8 channel	T4	T4	60 °C
6ES7 332-5RD00-a	Analog Output Module, 4 channel	T4	T4	60 °C
6ES7 332-8TF00-a	8 Analog Output Module, HART	T4	T4	60 °C
6ES7 332-8TF01-a	8 Analog Output Module, HART	T4	T4	60 °C
6ES7 334-0CE01-a	Analog I/O Module, 4I/2O channel	T5	T5	60 °C
6ES7 335-7HG02-a	SM 335 AI 4 / AO 4 x 14 / 12Bit	T4A	T4	60 °C
6ES7 336-4GE00-a	Failsafe Analog Input Module 6-Channel, HART***	T4	T4	60 °C
6ES7 338-4BC01-a	Positioning Input Module	T4A	T4	60 °C
6ES7 338-7XF00-a	8 x IQ - Sense	T4	T4	60 °C
6ES7 340-1AH01-a	Communication Processor CP340	T6	T6	60 °C
6ES7 340-1AH02-a	Communication Processor CP340	T6	T6	60 °C
6ES7 340-1BH00-a	Communication Processor CP340	T6	T6	60 °C
6ES7 340-1BH02-a	Communication Processor CP340	T6	T6	60 °C
6ES7 340-1CH00-a	Communication Processor CP340	T6	T6	60 °C
6ES7 340-1CH02-a	Communication Processor CP340	T6	T6	60 °C
6ES7 341-1AH02-a	Communication Processor CP 341 RS 232	T4A	T4	60 °C
6ES7 341-1BH02-a	Communication Processor CP 341 20mA TTY	T4A	T4	60 °C
6ES7 341-1CH02-a	Communication Processor CP 341 RS 422/485	T4A	T4	60 °C
6ES7 350-2AH00-a	Counter Module	T4A	T4	60 °C
6ES7 350-2AH01-a	FM 350-2 Counter Module	T4A	T4	60 °C
6ES7 351-1AH02-a	FM 351	T4	T4	60 °C
6ES7 352-1AH02-a	FM 352 Electronic Function Module	T4A	T4	60 °C
6ES7 352-5AH01-a	FM 352-5 M	T4	T4	60 °C



Model No.	Description	T-Code*	T-Code**	Member of the FM Global Group Tambient
6ES7 352-5AH11-a	FM 352-5 P	T4	T4	60 °C
6ES7 365-0BA81-a	Interface Module	T4A	T4	60 °C
6ES7 677-1DD00-a	S7-mEC Embedded Controller	T4	T4	50 °C
6ES7 677-1DD40-a	EM PCI-104 Extension Module	T4	T4	50 °C
6ES7 677-1DD50-a	EM PC Extension Module	T4	T4	50 °C
6ES7 677-1FD00-a	Embedded Controller EC 31 RTX F	T4	T4	50 °C
6ES7 370 0AA01-a	Dummy Module	T4A	T4	60 °C
6ES7 972-0AA01-a	RS 485-Repeater	T4A	T4	60 °C

a = Options not affecting safety, any 2 or 4 digit letter or number referring to non-electrical properties as product associates, language, delivery packing, documentation, etc.

Special Conditions of Use:

- 1. The modules shall be installed in compliance with the enclosure, mounting, spacing and segregation requirements of the ultimate application, including a tool removable cover.*

Equipment Ratings:

Nonincendive for Class I, Division 2, Groups A, B, C & D, and Class I, Zone 2, Group IIC Hazardous (Classified) Indoor Locations

This certifies that the equipment described has been found to comply with the following Approval Standards and other documents:

Class 3600	1998
Class 3611	2004
Class 3810	2005

FM Approved for:

Siemens AG – I IA AS RD Type Test
Amberg, Germany



Original Project ID: 3000278

Approval Granted: March 4, 1999


Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
081021	December 5, 2008	3040053	June 1, 2010
3035166	December 30, 2008	3040204	July 6, 2010
3035536	February 19, 2009		
3035698	February 26, 2009		
3035929	March 26, 2009		
090805	September 16, 2009		
3037774	October 1, 2009		
091103	November 12, 2009		
091130	December 9, 2009		
3038343	December 15, 2009		
3038794	March 5, 2010		

FM Approvals LLC



J.E. Marquedant
Group Manager, Electrical



Date