

CERTIFICATE OF CONFORMITY

1. **HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS**
2. **Certificate No:** FM16US0053X
3. **Equipment:** ET 200SP System Modules
(Type Reference and Name)
4. **Name of Listing Company:** Siemens AG – DF FA AS SIMATIC Type Test
5. **Address of Listing Company:** Werner Von Siemensstraße 50
D-92224 Amberg
Germany
6. The examination and test results are recorded in confidential report number:

3046001 dated 4th May 2012
7. FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:

FM Class 3600:2011, FM Class 3611:2004, FM Class 3810:2005
8. If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.
9. This certificate relates to the design, examination and testing of the products specified herein. The FM Approvals surveillance audit program has further determined that the manufacturing processes and quality control procedures in place are satisfactory to manufacture the product as examined, tested and Approved.
10. **Equipment Ratings:**

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

Certificate issued by:



J. E. Marquedant

30 August 2016

Date

To verify the availability of the Approved product, please refer to www.approvalguide.com

THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE

FM Approvals LLC. 1151 Boston-Providence Turnpike, Norwood, MA 02062 USA
T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: information@fmapprovals.com www.fmapprovals.com

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US Certificate Of Conformity No: FM16US0053X

11. The marking of the equipment shall include:

Class I Division 2, Groups A, B, C, D

Class I, Zone 2, Group IIC

For Maximum Ambient Temperature and T-Code, see Section 12.

12. **Description of Equipment:**

General - SIMATIC is the family name of a large range of Siemens (fail-safe) Control Automation Systems. All SIMATIC Control Automation Systems communicate on an open bus system called PROFIBUS DP or an open Ethernet system called PROFINET. The SIMATIC ET 200SP System is a distributed I/O Module System that operates as a master/slave type on the PROFINET DP/PN Network. The master controls the reading of inputs and then actuates the outputs. The System contains open-type programmable controllers and consists of several types of modules, which can be assembled as necessary. The IM Modules connect the ET 200SP System with the PROFIBUS DP system and communicate with the ET 200SP Base Modules via a serial bus.

Ratings - The ET 200SP Modules are supplied from an external voltage source with a range of 20.4Vdc to 28.8Vdc. The modules operate at an ambient temperature of 0 °C to +60 °C when mounted horizontally or 0 °C to +50 °C when mounted vertically.

SIMATIC ET 200SP Modules

Model No.	Description	T-Code*	T-Code**	Tambient
6ES7 131-6BF00-aAaa	DI 8 x 24Vdc BA	T4	T4	60 °C
6ES7 131-6BF00-aBaa	DI 8 x 24Vdc ST Digital Input Module	T4	T4	60 °C
6ES7 131-6BF00-aCaa	DI 8 x 24Vdc HF	T4	T4	60 °C
6ES7 131-6BF00-aDaa	DI 8 x 24Vdc HS	T4	T4	60 °C
6ES7 131-6BF60-a	DI 8 x 24VDC SRC BA	T4	T4	60 °C
6ES7 131-6BH00-a	DI 16 x 24Vdc ST Digital Input Module	T4	T4	60 °C
6ES7 131-6FD00-a	DI 4 x 120...230VAC ST	T4	T4	60 °C
6ES7 131-6TF00-a	DI 8 x NAMUR HF	T4	T4	60 °C
6ES7 132-6BD20-aBaa	DQ 4 x 24Vdc/0.5A ST Digital Output Module	T4	T4	60 °C
6ES7 132-6BD20-aCaa	DQ 4 x 24VDC/2A HF	T4	T4	60 °C
6ES7 132-6BD20-aDaa	DQ 4 x 24VDC/2A HS	T4	T4	60 °C
6ES7 132-6BF00-aAaa	DQ 8x24VDC / 0,5A BA	T4	T4	60 °C
6ES7 132-6BF00-aBaa	DQ 8 x 24Vdc/0.5A ST Digital Output Module	T4	T4	60 °C
6ES7 132-6BF00-aCaa	DQ 8 x 24Vdc/0.5A HF	T4	T4	60 °C
6ES7 132-6BF60-a	DQ 8 x 24VDC/0.5A SINK BA	T4	T4	60 °C
6ES7 132-6BH00-a	DQ 16 x 24Vdc/2A ST Digital Output Module	T4	T4	60 °C
6ES7 132-6FD00-a	DQ 4 x 24...230VAC/2A ST	T4	T4	60 °C
6ES7 132-6GD50-a	RQ 4 x 24VDC/2A HF	T4	T4	60 °C
6ES7 132-6HD00-a	RQ 4x24Vuc...230Vuc/5A	T4	T4	60 °C
6ES7 132-6MD00-a	RQ 4x120VDC-230VUC/5A NO MA ST	T4	T4	60 °C
6ES7 134-6FB00-a	AI 2xU ST	T4	T4	60 °C
6ES7 134-6FF00-a	AI 8xU BA	T4	T4	60 °C
6ES7 134-6GB00-a	AI 2xI 2-/4-wire ST	T4	T4	60 °C
6ES7 134-6GD00-a	AI 4 x I 2-/4-Wire ST Analog Input Module	T4	T4	60 °C

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6ES7 134-6GF00-a	AI 8xI 2-/4-Wire BA	T4	T4	60 °C
6ES7 134-6HB00-a	AI 2 x U/I 2-4-Wire HS	T4	T4	60 °C
6ES7 134-6HB00-aCaa	AI 2 x U/I 2-/4-wire HF	T4	T4	60 °C
6ES7 134-6HD00-a	AI 4 x U/I 2-Wire ST Analog Input Module	T4	T4	60 °C
6ES7 134-6JD00-a	AI 4 x RTD/TC 2-/3-/4-Wire HF Analog Input Module	T4	T4	60 °C
6ES7 134-6JF00-a	AI 8 x RTD/TC 2-wire HF	T4	T4	60 °C
6ES7 134-6PA00-a	AI Energy Meter (AI 3x400Vac/1-5A ST)	T4	T4	60 °C
6ES7 134-6PA01-a	AI Energy Meter 400Vac ST	T4	T4	60 °C
6ES7 134-6PA20-a	AI Energy Meter 480Vac ST	T4	T4	60 °C
6ES7 135-6FB00-a	AQ 2xU ST	T4	T4	60 °C
6ES7 135-6GB00-a	AQ 2xI ST	T4	T4	60 °C
6ES7 135-6HB00-a	AQ 2 x U/I HS	T4	T4	60 °C
6ES7 135-6HB00-aCaa	AQ 2 x U/I HF	T4	T4	60 °C
6ES7 135-6HD00-a	AQ 4 x U/I ST Analog Output Module	T4	T4	60 °C
6ES7 136-6BA00-a	F- DI 8x24Vdc HF	T4	T4	60 °C
6ES7 136-6DB00-a	F-DQ 4x24Vdc / 2A PM HF	T4	T4	60 °C
6ES7 136-6PA00-a	F-PM-E 24Vdc / 10A PPM	T4	T4	60 °C
6ES7 136-6RA00-a	F-RQ 1 x24-48VDC 124-230VAC/3A	T4	T4	60 °C
6ES7 137-6AA00-a	CM PtP	T4	T4	60 °C
6ES7 137-6BD00-a	IO-Link Master	T4	T4	60 °C
6ES7 138-6AA00-a	TM Count 1x24V	T4	T4	60 °C
6ES7 138-6BA00-a	TM PosInput 1	T4	T4	60 °C
6ES7 138-6CG00-a	TM Timer DI/DQ 10x24V	T4	T4	60 °C
6ES7 138-6DB00-0BB1	TM 2x24V Pulse Module	T4	T4	60 °C
6ES7 151-9FB00-a	IM 151-9F PN CPU	T4	T4	60 °C
6ES7 155-6AR00-a	IM 155-6PN BA	T4	T4	60 °C
6ES7 155-6AU00-aBaa	IM 155-6PN ST	T4	T4	60 °C
6ES7 155-6AU00-aCaa	IM 155-6 PN HF	T4	T4	60 °C
6ES7 155-6AU00-aDaa	IM 155-6 PN HS	T4	T4	60 °C
6ES7 155-6BU00-a	IM 155-6 DP HF	T4	T4	60 °C
6ES7 193-6AF00-a	BA 2xFC (Bus Adapter)	T4	T4	60 °C
6ES7 193-6AG00-a	BA 2xLC	T4	T4	60 °C
6ES7 193-6AG20-a	BA LC_RJ45	T4	T4	60 °C
6ES7 193-6AG40-a	BA LC_FC	T4	T4	60 °C
6ES7 193-6AP00-a	BA 2 x SRC (Busadapter)	T4	T4	60 °C
6ES7 193-6AP20-a	BA SCRJ/RJ45	T4	T4	60 °C
6ES7 193-6AP40-a	BA SCRJ/FC	T4	T4	60 °C
6ES7 193-6AR00-a	BA 2xRJ45 (Bus Adapter)	T4	T4	60 °C
6ES7 193-6AS00-a	BA Send (1xFC)	T4	T4	60 °C
6ES7 193-6BN00-a	BU Send	T4	T4	60 °C
6ES7 193-6BP00-a	Base Unit	T4	T4	60 °C
6ES7 193-6BP20-aaAa	Base Unit	T4	T4	60 °C
6ES7 193-6BP20-aaB1	Base Unit, BU20-P12+A0+4B	T4	T4	60 °C
6ES7 193-6BP20-aaBa	Base Unit, BU20	T4	T4	60 °C
6ES7 193-6BP20-aaCa	Base Unit, BU20	T4	T4	60 °C
6ES7 193-6BP20-aaDa	Base Unit, BU20-P12+A0+0B (400Vac/5A)	T4	T4	60 °C
6ES7 193-6BP20-aaFa	Base Unit, BU20-P8+A4+0B	T4	T4	60 °C

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6ES7 193-6BP40-a	Base Unit	T4	T4	60 °C
6ES7 193-6PA00-a	Server Module	T4	T4	60 °C
6ES7 510-1DJ00-a	CPU 1510	T4	T4	60 °C
6ES7 510-1DJ01-a	CPU 1510	T4	T4	60 °C
6ES7 510-1SJ00-a	CPU 1510F	T4	T4	60 °C
6ES7 510-1SJ01-a	CPU 1510F	T4	T4	60 °C
6ES7 512-1DK00-a	CPU 1512	T4	T4	60 °C
6ES7 512-1DK01-a	CPU 1512	T4	T4	60 °C
6ES7 512-1SK00-a	CPU 1512F	T4	T4	60 °C
6ES7 512-1SK01-a	CPU 1512F	T4	T4	60 °C
6ES7 545-5DA00-a	CM-DP	T4	T4	60 °C
6ES7 677-2AA30-a	CPU 1515SP PC, 2GB	T4	T4	60 °C
6ES7 677-2AA40-a	CPU 1515SP PC, 4GB	T4	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

13. Specific 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.
2. The maximum ambient temperature is reduced to 50 °C when mounted vertically.

14. Test and Assessment Procedure and Conditions:

This Certificate has been issued in accordance with FM Approvals US Certification Requirements.

15. Schedule Drawings

A copy of the technical documentation has been kept by FM Approvals.

16. Certificate History

Details of the supplements to this certificate are described below:

Date	Description
4 th May 2012	Original Issue.
25 th April 2016	<u>Supplement 13:</u> Report Reference: – 3057612 dated 25 th April 2016 Description of the Change: Updated certificate to new format. Added new modules.
30 th August 2016	<u>Supplement 14</u> Report Reference – 3059805 dated 30 th August 2016 Description of the Change: added module 6ES7 155-6AU00-aDaa to listing

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CERTIFICATE OF CONFORMITY

1. **HAZARDOUS LOCATION ELECTRICAL EQUIPMENT PER CANADIAN REQUIREMENTS**
2. **Certificate No:** FM16CA0029X
3. **Equipment:** ET 200SP System Modules
(Type Reference and Name)
4. **Name of Listing Company:** Siemens AG – DF FA AS SIMATIC Type Test
5. **Address of Listing Company:** Werner Von Siemensstraße 50
D-92224 Amberg
Germany
6. The examination and test results are recorded in confidential report number:

3046001 dated 4th May 2012
7. FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:

CSA-C22.2 No. 213:R2013, CSA-C22.2 No. 1010-1:2004
8. If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.
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10. **Equipment Ratings:**

Nonincendive for use in Class I, Division 2, Groups A, B, C & D
11. The marking of the equipment shall include:

Class I Division 2, Groups A, B, C, D
For Maximum Ambient Temperature and T-Code, see Section 12.

Certificate issued by:



J. E. Marquedant
Manager, Electrical Systems

30 August 2016

Date

To verify the availability of the Approved product, please refer to www.approvalguide.com

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Canadian Certificate Of Conformity No: FM16CA0029X

12. Description of Equipment:

General - SIMATIC is the family name of a large range of Siemens (fail-safe) Control Automation Systems. All SIMATIC Control Automation Systems communicate on an open bus system called PROFIBUS DP or an open Ethernet system called PROFINET. The SIMATIC ET 200SP System is a distributed I/O Module System that operates as a master/slave type on the PROFINET DP/PN Network. The master controls the reading of inputs and then actuates the outputs. The System contains open-type programmable controllers and consists of several types of modules, which can be assembled as necessary. The IM Modules connect the ET 200SP System with the PROFIBUS DP system and communicate with the ET 200SP Base Modules via a serial bus.

Ratings - The ET 200SP Modules are supplied from an external voltage source with a range of 20.4Vdc to 28.8Vdc. The modules operate at an ambient temperature of 0 °C to +60 °C when mounted horizontally or 0 °C to +50 °C when mounted vertically.

SIMATIC ET 200SP Modules

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6ES7 131-6BF00-aAaa	DI 8 x 24Vdc BA	T4	60 °C
6ES7 131-6BF00-aBaa	DI 8 x 24Vdc ST Digital Input Module	T4	60 °C
6ES7 131-6BF00-aCaa	DI 8 x 24Vdc HF	T4	60 °C
6ES7 131-6BF00-aDaa	DI 8 x 24Vdc HS	T4	60 °C
6ES7 131-6BF60-a	DI 8 x 24VDC SRC BA	T4	60 °C
6ES7 131-6BH00-a	DI 16 x 24Vdc ST Digital Input Module	T4	60 °C
6ES7 131-6FD00-a	DI 4 x 120...230VAC ST	T4	60 °C
6ES7 131-6TF00-a	DI 8 x NAMUR HF	T4	60 °C
6ES7 132-6BD20-aBaa	DQ 4 x 24Vdc/0.5A ST Digital Output Module	T4	60 °C
6ES7 132-6BD20-aCaa	DQ 4 x 24VDC/2A HF	T4	60 °C
6ES7 132-6BD20-aDaa	DQ 4 x 24VDC/2A HS	T4	60 °C
6ES7 132-6BF00-aAaa	DQ 8x24VDC / 0,5A BA	T4	60 °C
6ES7 132-6BF00-aBaa	DQ 8 x 24Vdc/0.5A ST Digital Output Module	T4	60 °C
6ES7 132-6BF00-aCaa	DQ 8 x 24Vdc/0.5A HF	T4	60 °C
6ES7 132-6BF60-a	DQ 8 x 24VDC/0.5A SINK BA	T4	60 °C
6ES7 132-6BH00-a	DQ 16 x 24Vdc/2A ST Digital Output Module	T4	60 °C
6ES7 132-6FD00-a	DQ 4 x 24...230VAC/2A ST	T4	60 °C
6ES7 132-6GD50-a	RQ 4 x 24VDC/2A HF	T4	60 °C
6ES7 132-6HD00-a	RQ 4x24Vuc...230Vuc/5A	T4	60 °C
6ES7 132-6MD00-a	RQ 4x120VDC-230VUC/5A NO MA ST	T4	60 °C
6ES7 134-6FB00-a	AI 2xU ST	T4	60 °C
6ES7 134-6FF00-a	AI 8xU BA	T4	60 °C
6ES7 134-6GB00-a	AI 2xI 2-/4-wire ST	T4	60 °C
6ES7 134-6GD00-a	AI 4 x I 2-/4-Wire ST Analog Input Module	T4	60 °C
6ES7 134-6GF00-a	AI 8xI 2-/4-Wire BA	T4	60 °C
6ES7 134-6HB00-a	AI 2 x U/I 2-4-Wire HS	T4	60 °C
6ES7 134-6HB00-aCaa	AI 2 x U/I 2-/4-wire HF	T4	60 °C
6ES7 134-6HD00-a	AI 4 x U/I 2-Wire ST Analog Input Module	T4	60 °C
6ES7 134-6JD00-a	AI 4 x RTD/TC 2-/3-/4-Wire HF Analog Input Module	T4	60 °C
6ES7 134-6JF00-a	AI 8 x RTD/TC 2-wire HF	T4	60 °C
6ES7 134-6PA00-a	AI Energy Meter (AI 3x400Vac/1-5A ST)	T4	60 °C
6ES7 134-6PA01-a	AI Energy Meter 400Vac ST	T4	60 °C

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6ES7 134-6PA20-a	AI Energy Meter 480Vac ST	T4	60 °C
6ES7 135-6FB00-a	AQ 2xU ST	T4	60 °C
6ES7 135-6GB00-a	AQ 2xI ST	T4	60 °C
6ES7 135-6HB00-a	AQ 2 x U/I HS	T4	60 °C
6ES7 135-6HB00-aCaa	AQ 2 x U/I HF	T4	60 °C
6ES7 135-6HD00-a	AQ 4 x U/I ST Analog Output Module	T4	60 °C
6ES7 136-6BA00-a	F- DI 8x24Vdc HF	T4	60 °C
6ES7 136-6DB00-a	F-DQ 4x24Vdc / 2A PM HF	T4	60 °C
6ES7 136-6PA00-a	F-PM-E 24Vdc / 10A PPM	T4	60 °C
6ES7 136-6RA00-a	F-RQ 1 x24-48VDC 124-230VAC/3A	T4	60 °C
6ES7 137-6AA00-a	CM PtP	T4	60 °C
6ES7 137-6BD00-a	IO-Link Master	T4	60 °C
6ES7 138-6AA00-a	TM Count 1x24V	T4	60 °C
6ES7 138-6BA00-a	TM PosInput 1	T4	60 °C
6ES7 138-6CG00-a	TM Timer DI/DQ 10x24V	T4	60 °C
6ES7 138-6DB00-0BB1	TM 2x24V Pulse Module	T4	60 °C
6ES7 151-9FB00-a	IM 151-9F PN CPU	T4	60 °C
6ES7 155-6AR00-a	IM 155-6PN BA	T4	60 °C
6ES7 155-6AU00-aBaa	IM 155-6PN ST	T4	60 °C
6ES7 155-6AU00-aCaa	IM 155-6 PN HF	T4	60 °C
6ES7 155-6AU00-aDaa	IM 155-6 PN HS	T4	60 °C
6ES7 155-6BU00-a	IM 155-6 DP HF	T4	60 °C
6ES7 193-6AF00-a	BA 2xFC (Bus Adapter)	T4	60 °C
6ES7 193-6AG00-a	BA 2xLC	T4	60 °C
6ES7 193-6AG20-a	BA LC_RJ45	T4	60 °C
6ES7 193-6AG40-a	BA LC_FC	T4	60 °C
6ES7 193-6AP00-a	BA 2 x SRC (Busadapter)	T4	60 °C
6ES7 193-6AP20-a	BA SCRJ/RJ45	T4	60 °C
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6ES7 193-6AR00-a	BA 2xRJ45 (Bus Adapter)	T4	60 °C
6ES7 193-6AS00-a	BA Send (1xFC)	T4	60 °C
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6ES7 193-6BP20-aaAa	Base Unit	T4	60 °C
6ES7 193-6BP20-aaB1	Base Unit, BU20-P12+A0+4B	T4	60 °C
6ES7 193-6BP20-aaBa	Base Unit, BU20	T4	60 °C
6ES7 193-6BP20-aaCa	Base Unit, BU20	T4	60 °C
6ES7 193-6BP20-aaDa	Base Unit, BU20-P12+A0+0B (400Vac/5A)	T4	60 °C
6ES7 193-6BP20-aaFa	Base Unit, BU20-P8+A4+0B	T4	60 °C
6ES7 193-6BP40-a	Base Unit	T4	60 °C
6ES7 193-6PA00-a	Server Module	T4	60 °C
6ES7 510-1DJ00-a	CPU 1510	T4	60 °C
6ES7 510-1DJ01-a	CPU 1510	T4	60 °C
6ES7 510-1SJ00-a	CPU 1510F	T4	60 °C
6ES7 510-1SJ01-a	CPU 1510F	T4	60 °C
6ES7 512-1DK00-a	CPU 1512	T4	60 °C
6ES7 512-1DK01-a	CPU 1512	T4	60 °C
6ES7 512-1SK00-a	CPU 1512F	T4	60 °C

60 °C

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6ES7 512-1SK01-a	CPU 1512F	T4	60 °C
6ES7 545-5DA00-a	CM-DP	T4	60 °C
6ES7 677-2AA30-a	CPU 1515SP PC, 2GB	T4	60 °C
6ES7 677-2AA40-a	CPU 1515SP PC, 4GB	T4	60 °C

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