

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 - DI FA AS
5. **Address of Listing Company:** Gleiwitzer Str. 555
D-90475 Nuremberg
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:

Section – 1

CAN/CSA C22.2 No. 0-10:R2015, CSA-C22.2 No. 213:2017, CSA-C22.2 No. 61010-1:2015

Section – 2

CAN/CSA C22.2 No. 0-10:R2015, CAN/CSA C22.2 No. 213-M1987:R2013,
CAN/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.
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 equipment for use in Class I, Division 2, Groups A, B, C & D Hazardous Locations, indoor environments.

Certificate issued by:

J. E. Marquedant
VP, Manager - Electrical Systems

16 August 2019
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
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Canadian Certificate Of Conformity No: FM16CA0029X

11. The marking of the equipment shall include:

Class I Division 2, Groups A, B, C, D T4

For ambient temperature range, see Section 12.

WARNING – SUBSTITUTION OF COMPONENTS MAY IMPAIR SUITABILITY FOR DIVISION 2

AVERTISSEMENT – RISQUE D'EXPLOSION. LE REMPLACEMENT DE COMPOSANTS PEUT NUIRE À LA CONFORMITÉ DE CLASSE I, DIVISION 2

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 Analog Input Energy Meters and Digital Input 4x120-230V Modules are supplied from an external voltage source with a range of 100Vac to 277Vac. The Digital Output 4x24-230V Modules are supplied from an external voltage source and provides outputs with a range of 24V to 230Vac. The Relay Output 4x24-230V Modules are supplied from an external voltage source with a range of 24V to 230Vac. The Potential Distributor Module is supplied from an external voltage source of 48Vdc. The remaining ET 200SP modules are supplied from an external voltage source with a range of 20.4Vdc to 28.8Vdc. The modules operate at a maximum ambient temperature of +60°C when mounted horizontally or +50°C when mounted vertically. The lower ambient temperature is indicated in the table below. See the instruction manual for deratings regarding the maximum total current and maximum ambient temperature for the 4-Channel Digital Output Module.

Section – 2

SIMATIC ET 200SP Modules

Model No.	Description	Tambient
6ES7 131-6BF00-0AA0	DI 8 x 24Vdc BA	0°C to +60°C
6ES7 131-6BF00-0BA0	DI 8 x 24Vdc ST	0°C to +60°C
6ES7 131-6BF00-0CA0	DI 8 x 24Vdc HF	-30°C to +60°C
6ES7 131-6BF00-0DA0	DI 8 x 24Vdc HS	-30°C to +60°C
6ES7 131-6BF01-0AA0	DI 8x24Vdc BA	-30°C to +60°C
6ES7 131-6BF01-aBaa	DI 8 x 24Vdc ST	0°C to +60°C
6ES7 131-6BF60-0AA0	DI 8 x 24VDC SRC BA	0°C to +60°C
6ES7 131-6BF61-0AA0	DI 8 x 24VDC SRC BA	-25°C to +60°C
6ES7 131-6BH00-a	DI 16 x 24Vdc ST Digital Input Module	0°C to +60°C
6ES7 131-6BH01-0BA0	DI 16 x 24Vdc ST	-30°C to +60°C
6ES7 131-6CF00-0AU0	DI 8x24VAC/48VUC BA	-30°C to +60°C
6ES7 131-6FD00-0BB1	DI 4 x 120...230VAC ST	0°C to +60°C
6ES7 131-6FD01-0BB1	DI 4 x 120...230VAC ST	-30°C to +60°C
6ES7 131-6TF00-0CA0	DI 8 x NAMUR HF	-30°C to +60°C
6ES7 132-6BD20-0BA0	DQ 4 x 24Vdc / 2A ST	-30°C to +60°C
6ES7 132-6BD20-0CA0	DQ 4 x 24VDC/2A HF	-30°C to +60°C
6ES7 132-6BD20-0DA0	DQ 4 x 24VDC/2A HS	-30°C to +60°C
6ES7 132-6BD20-0BA0	DQ 4 x 24Vdc / 2A ST	-30°C to +60°C

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6ES7 132-6BF00-0AA0	DQ 8x24VDC / 0,5A BA	0°C to +60°C
6ES7 132-6BF00-aBaa	DQ 8 x 24Vdc/0.5A ST Digital Output Module	0°C to +60°C
6ES7 132-6BF00-0CA0	DQ 8 x 24Vdc / 0.5A HF	-30°C to +60°C
6ES7 132-6BF01-0AA0	DQ 8x24VDC / 0,5A BA	-30°C to +60°C
6ES7 132-6BF00-0BA0	DQ 8 x 24Vdc / 0,5A ST	0°C to +60°C
6ES7 132-6BF60-0AA0	DQ 8 x 24VDC/0.5A SINK BA	0°C to +60°C
6ES7 132-6BF61-0AA0	DQ 8 x 24VDC/0.5A SNK BA	-25°C to +60°C
6ES7 132-6BH00-0BA0	DQ 16 x 24Vdc / 0,5A ST	0°C to +60°C
6ES7 132-6BH00-0AA0	DQ 16 x 24VDC/0.5A BA	0°C to +60°C
6ES7 132-6BH01-0BA0	DQ 16 x 24Vdc / 0,5A ST	-30°C to +60°C
6ES7 132-6FD00-0BB1	DQ 4 x 24...230VAC/2A ST	-30°C to +60°C
6ES7 132-6FD00-0CU0	DQ 4 x 24...230VAC/2A HF	-30°C to +60°C
6ES7 134-6FB00-0BA1	AI 2xU ST	-30°C to +60°C
6ES7 134-6FF00-0AA1	AI 8xU BA	-30°C to +60°C
6ES7 134-6GB00-0BA1	AI 2xI 2-/4-wire ST	-30°C to +60°C
6ES7 134-6GD00-0BA1	AI 4 x I 2-/4-Wire ST Analog Input Module	0°C to +60°C
6ES7 134-6GD01-0BA1	AI 4 x I 2-/4-Wire ST	-30°C to +60°C
6ES7 134-6GF00-0AA1	AI 8xI 2-/4-Wire BA	-30°C to +60°C
6ES7 134-6HB00-0DA1	AI 2xU/I 2,-4-wire HS	-30°C to +60°C
6ES7 134-6HB00-0CA1	AI 2 x U/I 2-/4-wire HF	-30°C to +60°C
6ES7 134-6HD00-0BA1	AI 4 x U/I 2-Wire ST Analog Input Module	-30°C to +60°C
6ES7 134-6HD01-0BA1	AI 4 x U/I 2-Wire ST	-30°C to +60°C
6ES7 134-6JD00-0CA1	AI 4 x RTD/TC 2- /3- /4-wire HF	-30°C to +60°C
6ES7 134-6JD00-0DA1	AI 4xTC HS	-30°C to +60°C
6ES7 134-6JF00-0CA1	AI 8 x RTD/TC 2-wire HF	-30°C to +60°C
6ES7 134-6PA00-0BD0	AI Energy Meter (AI 3x400Vac/1-5A ST)	0°C to +60°C
6ES7 134-6PA00-0CU0	AI Energy Meter 480 VAC/CT HF	-30°C to +60°C
6ES7 134-6PA01-0BD0	AI Energy Meter 400Vac ST	0°C to +60°C
6ES7 134-6PA20-0BD0	AI Energy Meter 480Vac ST	0°C to +60°C
6ES7 134-6PA20-0CU0	AI Energy Meter 480 VAC/RC HF	-30°C to +60°C
6ES7 135-6FB00-0BA1	AQ 2xU ST	-30°C to +60°C
6ES7 135-6GB00-0BA1	AQ 2xI ST	-30°C to +60°C
6ES7 135-6HB00-0DA1	AQ 2xU/I HS	-30°C to +60°C
6ES7 135-6HB00-0CA1	AQ 2 x U/I HF	-30°C to +60°C
6ES7 135-6HD00-0BA1	AQ 4 x U/I ST Analog Output Module	-30°C to +60°C
6ES7 136-6AA00-0CA1	F-AI 4xI 2-/4-wire HF	0°C to +60°C
6ES7 136-6BA00-0CA0	F- DI 8x24Vdc HF	0°C to +60°C
6ES7 136-6DB00-0CA0	F-DQ 4x24Vdc / 2A PM HF	0°C to +60°C
6ES7 136-6DC00-a	AI 4 x U/I 2-wire ST	0°C to +60°C
6ES7 136-6DC00-0CA0	F-DQ 8x24VDC/0.5A PP HF	0°C to +60°C
6ES7 136-6PA00-0BC0	F-PM-E 24Vdc / 10A PPM	0°C to +60°C
6ES7 137-6AA00-0BA0	CM PtP	-30°C to +60°C
6ES7 137-6BD00-0BA0	IO-Link Master	-30°C to +60°C
6ES7 138-6AA00-0BA0	TM Count 1x24V	-30°C to +60°C
6ES7 138-6AA01-0BA0	TM Count 1x24V	-30°C to +60°C
6ES7 138-6BA00-0BA0	TM PosInput 1	-30°C to +60°C
6ES7 138-6CG00-0BA0	TM Timer DI/DQ 10x24V	-30°C to +60°C
6ES7 138-6DB00-0BB1	TM 2x24V Pulse Module	-30°C to +60°C

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6ES7 151-9FB00-0AB0	IM 151-9F PN CPU	0°C to +60°C
6ES7 155-6AR00-0AN0	IM 155-6PN BA	-30°C to +60°C
6ES7 155-6AU00-0BN0	IM 155-6 PN ST	0°C to +60°C
6ES7 155-6AU00-0CN0	IM 155-6 PN HF	0°C to +60°C
6ES7 155-6AU00-0DN0	IM 155-6 PN HS	-25°C to +60°C
6ES7 155-6AU01-0BN0	IM 155-6 PN ST	-30°C to +60°C
6ES7 155-6AU01-0CN0	IM 155-6 PN HF	0°C to +60°C
6ES7 155-6AU30-0CN0	IM 155-6 PN/3 HF	-30°C to +60°C
6ES7 155-6BU00-0CN0	IM 155-6 DP HF	0°C to +60°C
6ES7 155-6BU01-0CN0	IM 155-6 DP HF	0°C to +60°C
6ES7 158-3AD10-0XA0	PN/PN Coupler	-30°C to +60°C
6ES7 193-6AF00-0AA0	BA 2 x FC (Busadapter)	-30°C to +60°C
6ES7 193-6AG00-0AA0	BA 2xLC	-30°C to +60°C
6ES7 193-6AG20-0AA0	BA LC_RJ45	-30°C to +60°C
6ES7 193-6AG40-0AA0	BA LC_FC	-30°C to +60°C
6ES7 193-6AP00-0AA0	BA 2 x SRC (Busadapter)	-25°C to +60°C
6ES7 193-6AP20-0AA0	BA SCRJ/RJ45	-25°C to +60°C
6ES7 193-6AP40-a0AA0	BA SCRJ/FC	-25°C to +60°C
6ES7 193-6AR00-0AA0	BA 2xRJ45 (Bus Adapter)	-30°C to +60°C
6ES7 193-6AS00-0AA0	BA Send (1xFC)	-30°C to +60°C
6ES7 193-6BN00-0NE0	BU Send	-30°C to +60°C
6ES7 193-6BP00-a	Base Unit	0°C to +60°C
6ES7 193-6BP00-0BA0	BU15-P16+A0+2B	-30°C to +60°C
6ES7 193-6BP00-0BA1	BU15-P16+A0+2B/T	-30°C to +60°C
6ES7 193-6BP00-0BD0	Base Unit, BU20-P12+A0+0B (400Vac / 5A)	-30°C to +60°C
6ES7 193-6BP00-0DA0	BU15-P16+A0+2D	-30°C to +60°C
6ES7 193-6BP00-0DA1	BU15-P16+A0+2D/T	-30°C to +60°C
6ES7 193-6BP00-0BU0	BU20-P16+A0+4D	-30°C to +60°C
6ES7 193-6BP00-0DU0	BU20-P16+A0+4D	-30°C to +60°C
6ES7 193-6BP20-aaAa	Base Unit	0°C to +60°C
6ES7 193-6BP20-0BA0	Base Unit BU15-P16+A10+2B	-30°C to +60°C
6ES7 193-6BP20-0DA0	Base Unit BU15-P16+A10+2D	-30°C to +60°C
6ES7 193-6BP20-0BB1	Base Unit, BU20-P12+A0+4B	-30°C to +60°C
6ES7 193-6BP20-aaBa	Base Unit, BU20	0°C to +60°C
6ES7 193-6BP20-0BB0	Base Unit, BU20-P12+A4+0B	-30°C to +60°C
6ES7 193-6BP20-aaCa	Base Unit, BU20	0°C to +60°C
6ES7 193-6BP20-0BC1	Base Unit, BU20-P6+A2+4B	-30°C to +60°C
6ES7 193-6BP20-0DC0	Base Unit, BU20-P6+A2+4D	-30°C to +60°C
6ES7 193-6BP20-aaDa	Base Unit, BU20-P12+A0+0B (400Vac/5A)	0°C to +60°C
6ES7 193-6BP20-0BF0	Base Unit, BU20-P8+A4+0B	-30°C to +60°C
6ES7 193-6BP40-0BA1	Base Unit BU15-P16+A0+12B/T	-30°C to +60°C
6ES7 193-6BP40-0DA1	Base Unit BU15-P16+A0+12D/T	-30°C to +60°C
6ES7 193-6BP60-0BA0	Base Unit	-30°C to +60°C
6ES7 193-6BP60-0DA0	Base Unit	-30°C to +60°C
6ES7 193-6PA00-a	Server Module	0°C to +60°C
6ES7 193-6PA00-0AA0	Servermodul (Abschluss)	-30°C to +60°C
6ES7 193-6TP00-0TN0	PotDis-TB-n.c.-G	-30°C to +60°C
6ES7 193-6TP00-0TP0	PotDis-TB-BR-W	-30°C to +60°C

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6ES7 193-6TP00-0TP1	PotDis-TB-P1-R	-30°C to +60°C
6ES7 193-6TP00-0TP2	PotDis-TB-P2-R	-30°C to +60°C
6ES7 193-6UP00-0BP1	PotDis-BU-P1/B-R, dunkel	-30°C to +60°C
6ES7 193-6UP00-0BP2	PotDis-BU-P2/B-B, dunkel	-30°C to +60°C
6ES7 193-6UP00-0DP1	PotDis-BU-P1/D-R, hell	-30°C to +60°C
6ES7 193-6UP00-0DP2	PotDis-BU-P2/D-B, hell	-30°C to +60°C
6ES7 510-1DJ00-0AB0	CPU 1510	-25°C to +60°C
6ES7 510-1DJ01-0AB0	CPU 1510	-25°C to +60°C
6ES7 510-1SJ00-0AB0	CPU 1510F	-25°C to +60°C
6ES7 510-1SJ01-0AB0	CPU 1510F	-25°C to +60°C
6ES7 512-1DK00-0AB0	CPU 1512	-25°C to +60°C
6ES7 512-1DK01-0AB0	CPU 1512	-25°C to +60°C
6ES7 512-1SK00-0AB0	CPU 1512F	-25°C to +60°C
6ES7 512-1SK01-0AB0	CPU 1512F	-25°C to +60°C
6ES7 545-5DA00-0AB0	CM-DP	0°C to +60°C
6ES7 677-2AA30-0AA0	CPU 1515SP PC, 2GB	-20°C to +60°C
6ES7 677-2AA40-0AA0	CPU 1515SP PC, 4GB	-20°C to +60°C
6ES7 677-2DB40-0AA0	CPU 1515-2 SP PC	-30°C to +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

Section – 2

SIMATIC ET 200SP Modules

Model No.	Description	Tambient
6ES7 132-6GD50-0BA0	RQ 4 x 24VDC/2A HF	-30°C to +60°C
6ES7 132-6GD51-a	RQ 4x24VUC/2A CO ST	0°C to +60°C
6ES7 132-6HD00-0BB0	RQ 4x24Vuc...230Vuc/5A	0°C to +60°C
6ES7 132-6HD01-0BB1	RQ 4x120VDC-230VAC/5A NO ST	-30°C to +60°C
6ES7 132-6MD00-0BB1	RQ 4x120VDC-230VUC/5A NO MA ST	-30°C to +60°C
6ES7 136-6RA00-0BF0	F-RQ 1 x24-48VDC 124-230VAC/3A	0°C to +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.
3. See instruction manual for deratings related to maximum current and reduced temperatures.

14. Test and Assessment Procedure and Conditions:

This Certificate has been issued in accordance with FM Approvals Canadian Certification Scheme.

15. Schedule Drawings

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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.
31 st July 2018	<u>Supplement 19:</u> Report Reference – PR449630 dated 31 st July 2018 Description of the Change: Added DQ modules, base units, and potential distributor module. Removed T-ambient & Tcode columns.
9 th August 2018	<u>Supplement 20:</u> Report Reference – PR450383 dated 9 th August 2018 Description of the Change: Update model numbers.
13 th November 2018	<u>Supplement 21:</u> Report Reference – PR450970 dated 13 th November 2018 Description of the Change: Added 6ES7 136-6AA00-0CA1, 6ES7 155-6AU01-0CN0 and 6ES7 155-6BU01-0CN0 model numbers and updated 6ES7 155-6AU01-a and 6ES7 155-6BU00-a.
17 th January 2019	<u>Supplement 22:</u> Report Reference – RR216683 dated 17 th January 2019 Description of the Change: Adding base units 6ES7193-6BP60-0BA0 & -0DA0. Added ambient temperature column.
13 th March 2019	<u>Supplement 23:</u> Report Reference – RR216793 dated 13 th March 2019 Description of the Change: Adjusted ambient temperature range and added last 4 digits to model numbers for several modules.
22 nd April 2019	<u>Supplement 24:</u> Report Reference – PR453014 dated 22 nd April 2019 Description of the Change: Add 6ES7 131-6CF00-0AU0, 6ES7 134-6JD00-0DA1, 6ES7 134-6PA00-0CU0, 6ES7 134-6PA20-0CU0, and 6ES7 155-6AU30-0CN0 models.
2 nd May 2019	<u>Supplement 25:</u> Report Reference: – RR217969 dated 2 nd May 2019 Description of the Change: Nonincendive re-examination of all modules. Created separate section for modules still approved to old edition of the standard.
22 nd May 2019	<u>Supplement 26:</u> Report Reference: – RR217916 dated 22 nd May 2019 Description of the Change: Adjusted ambient temperature range for additional modules.
16 th August 2019	<u>Supplement 27:</u> Report Reference: – PR453951 dated 16 th August 2019. Description of the Change: Addition of 6ES7 138-6AA01-0BA0 and 6ES7 677-2DB40-0AA0.

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(Type Reference and Name)
4. **Name of Listing Company:** Siemens AG - DI FA AS
5. **Address of Listing Company:** Gleiwitzer Str. 555
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6. The examination and test results are recorded in confidential report number:
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Section – 1

FM Class 3600:2018, FM Class 3611:2018, FM Class 3810:2018, ANSI/UL 121201:2017,
ANSI/ISA 61010-1:2015

Section – 2

FM Class 3600:2011, FM Class 3611:2004, FM Class 3810:2005

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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, indoor environments.

Certificate issued by:

J. E. Marquedant
VP, Manager - Electrical Systems

16 August 2019
Date

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

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11. The marking of the equipment shall include:

Class I Division 2, Groups A, B, C, D T4

Class I, Zone 2, Group IIC T4

For ambient temperature range, see Section 12.

WARNING – SUBSTITUTION OF COMPONENTS MAY IMPAIR SUITABILITY FOR DIVISION 2

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 Analog Input Energy Meters and Digital Input 4x120-230V Modules are supplied from an external voltage source with a range of 100Vac to 277Vac. The Digital Output 4x24-230V Modules are supplied from an external voltage source and provides outputs with a range of 24V to 230Vac. The Relay Output 4x24-230V Modules are supplied from an external voltage source with a range of 24V to 230Vac. The Potential Distributor Module is supplied from an external voltage source of 48Vdc. The remaining ET 200SP modules are supplied from an external voltage source with a range of 20.4Vdc to 28.8Vdc. The modules operate at a maximum ambient temperature of +60°C when mounted horizontally or +50°C when mounted vertically. The lower ambient temperature is indicated in the table below. See the instruction manual for deratings regarding the maximum total current and maximum ambient temperature for the 4-Channel Digital Output Module.

Section – 1

SIMATIC ET 200SP Modules

Model No.	Description	Tambient
6ES7 131-6BF00-0AA0	DI 8 x 24Vdc BA	0°C to +60°C
6ES7 131-6BF00-0BA0	DI 8 x 24Vdc ST	0°C to +60°C
6ES7 131-6BF00-0CA0	DI 8 x 24Vdc HF	-30°C to +60°C
6ES7 131-6BF00-0DA0	DI 8 x 24Vdc HS	-30°C to +60°C
6ES7 131-6BF01-0AA0	DI 8x24Vdc BA	-30°C to +60°C
6ES7 131-6BF01-aBaa	DI 8 x 24Vdc ST	0°C to +60°C
6ES7 131-6BF60-0AA0	DI 8 x 24VDC SRC BA	0°C to +60°C
6ES7 131-6BF61-0AA0	DI 8 x 24VDC SRC BA	-25°C to +60°C
6ES7 131-6BH00-a	DI 16 x 24Vdc ST Digital Input Module	0°C to +60°C
6ES7 131-6BH01-0BA0	DI 16 x 24Vdc ST	-30°C to +60°C
6ES7 131-6CF00-0AU0	DI 8x24VAC/48VUC BA	-30°C to +60°C
6ES7 131-6FD00-0BB1	DI 4 x 120...230VAC ST	0°C to +60°C
6ES7 131-6FD01-0BB1	DI 4 x 120...230VAC ST	-30°C to +60°C
6ES7 131-6TF00-0CA0	DI 8 x NAMUR HF	-30°C to +60°C
6ES7 132-6BD20-0BA0	DQ 4 x 24Vdc / 2A ST	-30°C to +60°C
6ES7 132-6BD20-0CA0	DQ 4 x 24VDC/2A HF	-30°C to +60°C
6ES7 132-6BD20-0DA0	DQ 4 x 24VDC/2A HS	-30°C to +60°C
6ES7 132-6BD20-0BA0	DQ 4 x 24Vdc / 2A ST	-30°C to +60°C
6ES7 132-6BF00-0AA0	DQ 8x24VDC / 0,5A BA	0°C to +60°C

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6ES7 132-6BF00-aBaa	DQ 8 x 24Vdc/0.5A ST Digital Output Module	0°C to +60°C
6ES7 132-6BF00-0CA0	DQ 8 x 24Vdc / 0.5A HF	-30°C to +60°C
6ES7 132-6BF01-0AA0	DQ 8x24VDC / 0,5A BA	-30°C to +60°C
6ES7 132-6BF00-0BA0	DQ 8 x 24Vdc / 0,5A ST	0°C to +60°C
6ES7 132-6BF60-0AA0	DQ 8 x 24VDC/0.5A SINK BA	0°C to +60°C
6ES7 132-6BF61-0AA0	DQ 8 x 24VDC/0.5A SNK BA	-25°C to +60°C
6ES7 132-6BH00-0BA0	DQ 16 x 24Vdc / 0,5A ST	0°C to +60°C
6ES7 132-6BH00-0AA0	DQ 16 x 24VDC/0.5A BA	0°C to +60°C
6ES7 132-6BH01-0BA0	DQ 16 x 24Vdc / 0,5A ST	-30°C to +60°C
6ES7 132-6FD00-0BB1	DQ 4 x 24...230VAC/2A ST	-30°C to +60°C
6ES7 132-6FD00-0CU0	DQ 4 x 24...230VAC/2A HF	-30°C to +60°C
6ES7 134-6FB00-0BA1	AI 2xU ST	-30°C to +60°C
6ES7 134-6FF00-0AA1	AI 8xU BA	-30°C to +60°C
6ES7 134-6GB00-0BA1	AI 2xI 2-/4-wire ST	-30°C to +60°C
6ES7 134-6GD00-0BA1	AI 4 x I 2-/4-Wire ST Analog Input Module	0°C to +60°C
6ES7 134-6GD01-0BA1	AI 4 x I 2-/4-Wire ST	-30°C to +60°C
6ES7 134-6GF00-0AA1	AI 8xI 2-/4-Wire BA	-30°C to +60°C
6ES7 134-6HB00-0DA1	AI 2xU/I 2,-4-wire HS	-30°C to +60°C
6ES7 134-6HB00-0CA1	AI 2 x U/I 2-/4-wire HF	-30°C to +60°C
6ES7 134-6HD00-0BA1	AI 4 x U/I 2-Wire ST Analog Input Module	-30°C to +60°C
6ES7 134-6HD01-0BA1	AI 4 x U/I 2-Wire ST	-30°C to +60°C
6ES7 134-6JD00-0CA1	AI 4 x RTD/TC 2- /3- /4-wire HF	-30°C to +60°C
6ES7 134-6JD00-0DA1	AI 4xTC HS	-30°C to +60°C
6ES7 134-6JF00-0CA1	AI 8 x RTD/TC 2-wire HF	-30°C to +60°C
6ES7 134-6PA00-0BD0	AI Energy Meter (AI 3x400Vac/1-5A ST)	0°C to +60°C
6ES7 134-6PA00-0CU0	AI Energy Meter 480 VAC/CT HF	-30°C to +60°C
6ES7 134-6PA01-0BD0	AI Energy Meter 400Vac ST	0°C to +60°C
6ES7 134-6PA20-0BD0	AI Energy Meter 480Vac ST	0°C to +60°C
6ES7 134-6PA20-0CU0	AI Energy Meter 480 VAC/RC HF	-30°C to +60°C
6ES7 135-6FB00-0BA1	AQ 2xU ST	-30°C to +60°C
6ES7 135-6GB00-0BA1	AQ 2xI ST	-30°C to +60°C
6ES7 135-6HB00-0DA1	AQ 2xU/I HS	-30°C to +60°C
6ES7 135-6HB00-0CA1	AQ 2 x U/I HF	-30°C to +60°C
6ES7 135-6HD00-0BA1	AQ 4 x U/I ST Analog Output Module	-30°C to +60°C
6ES7 136-6AA00-0CA1	F-AI 4xI 2-/4-wire HF	0°C to +60°C
6ES7 136-6BA00-0CA0	F- DI 8x24Vdc HF	0°C to +60°C
6ES7 136-6DB00-0CA0	F-DQ 4x24Vdc / 2A PM HF	0°C to +60°C
6ES7 136-6DC00-a	AI 4 x U/I 2-wire ST	0°C to +60°C
6ES7 136-6DC00-0CA0	F-DQ 8x24VDC/0.5A PP HF	0°C to +60°C
6ES7 136-6PA00-0BC0	F-PM-E 24Vdc / 10A PPM	0°C to +60°C
6ES7 137-6AA00-0BA0	CM PtP	-30°C to +60°C
6ES7 137-6BD00-0BA0	IO-Link Master	-30°C to +60°C
6ES7 138-6AA00-0BA0	TM Count 1x24V	-30°C to +60°C
6ES7 138-6AA01-0BA0	TM Count 1x24V	-30°C to +60°C
6ES7 138-6BA00-0BA0	TM PosInput 1	-30°C to +60°C
6ES7 138-6CG00-0BA0	TM Timer DI/DQ 10x24V	-30°C to +60°C
6ES7 138-6DB00-0BB1	TM 2x24V Pulse Module	-30°C to +60°C
6ES7 151-9FB00-0AB0	IM 151-9F PN CPU	0°C to +60°C

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6ES7 155-6AR00-0AN0	IM 155-6PN BA	-30°C to +60°C
6ES7 155-6AU00-0BN0	IM 155-6 PN ST	0°C to +60°C
6ES7 155-6AU00-0CNO	IM 155-6 PN HF	0°C to +60°C
6ES7 155-6AU00-0DNO	IM 155-6 PN HS	-25°C to +60°C
6ES7 155-6AU01-0BN0	IM 155-6 PN ST	-30°C to +60°C
6ES7 155-6AU01-0CNO	IM 155-6 PN HF	0°C to +60°C
6ES7 155-6AU30-0CNO	IM 155-6 PN/3 HF	-30°C to +60°C
6ES7 155-6BU00-0CNO	IM 155-6 DP HF	0°C to +60°C
6ES7 155-6BU01-0CNO	IM 155-6 DP HF	0°C to +60°C
6ES7 158-3AD10-0XA0	PN/PN Coupler	-30°C to +60°C
6ES7 193-6AF00-0AA0	BA 2 x FC (Busadapter)	-30°C to +60°C
6ES7 193-6AG00-0AA0	BA 2xLC	-30°C to +60°C
6ES7 193-6AG20-0AA0	BA LC_RJ45	-30°C to +60°C
6ES7 193-6AG40-0AA0	BA LC_FC	-30°C to +60°C
6ES7 193-6AP00-0AA0	BA 2 x SRC (Busadapter)	-25°C to +60°C
6ES7 193-6AP20-0AA0	BA SCRJ/RJ45	-25°C to +60°C
6ES7 193-6AP40-a0AA0	BA SCRJ/FC	-25°C to +60°C
6ES7 193-6AR00-0AA0	BA 2xRJ45 (Bus Adapter)	-30°C to +60°C
6ES7 193-6AS00-0AA0	BA Send (1xFC)	-30°C to +60°C
6ES7 193-6BN00-0NE0	BU Send	-30°C to +60°C
6ES7 193-6BP00-a	Base Unit	0°C to +60°C
6ES7 193-6BP00-0BA0	BU15-P16+A0+2B	-30°C to +60°C
6ES7 193-6BP00-0BA1	BU15-P16+A0+2B/T	-30°C to +60°C
6ES7 193-6BP00-0BD0	Base Unit, BU20-P12+A0+0B (400Vac / 5A)	-30°C to +60°C
6ES7 193-6BP00-0DA0	BU15-P16+A0+2D	-30°C to +60°C
6ES7 193-6BP00-0DA1	BU15-P16+A0+2D/T	-30°C to +60°C
6ES7 193-6BP00-0BU0	BU20-P16+A0+4D	-30°C to +60°C
6ES7 193-6BP00-0DU0	BU20-P16+A0+4D	-30°C to +60°C
6ES7 193-6BP20-aaAa	Base Unit	0°C to +60°C
6ES7 193-6BP20-0BA0	Base Unit BU15-P16+A10+2B	-30°C to +60°C
6ES7 193-6BP20-0DA0	Base Unit BU15-P16+A10+2D	-30°C to +60°C
6ES7 193-6BP20-0BB1	Base Unit, BU20-P12+A0+4B	-30°C to +60°C
6ES7 193-6BP20-aaBa	Base Unit, BU20	0°C to +60°C
6ES7 193-6BP20-0BB0	Base Unit, BU20-P12+A4+0B	-30°C to +60°C
6ES7 193-6BP20-aaCa	Base Unit, BU20	0°C to +60°C
6ES7 193-6BP20-0BC1	Base Unit, BU20-P6+A2+4B	-30°C to +60°C
6ES7 193-6BP20-0DC0	Base Unit, BU20-P6+A2+4D	-30°C to +60°C
6ES7 193-6BP20-aaDa	Base Unit, BU20-P12+A0+0B (400Vac/5A)	0°C to +60°C
6ES7 193-6BP20-0BF0	Base Unit, BU20-P8+A4+0B	-30°C to +60°C
6ES7 193-6BP40-0BA1	Base Unit BU15-P16+A0+12B/T	-30°C to +60°C
6ES7 193-6BP40-0DA1	Base Unit BU15-P16+A0+12D/T	-30°C to +60°C
6ES7 193-6BP60-0BA0	Base Unit	-30°C to +60°C
6ES7 193-6BP60-0DA0	Base Unit	-30°C to +60°C
6ES7 193-6PA00-a	Server Module	0°C to +60°C
6ES7 193-6PA00-0AA0	Servermodul (Abschluss)	-30°C to +60°C
6ES7 193-6TP00-0TN0	PotDis-TB-n.c.-G	-30°C to +60°C
6ES7 193-6TP00-0TP0	PotDis-TB-BR-W	-30°C to +60°C
6ES7 193-6TP00-0TP1	PotDis-TB-P1-R	-30°C to +60°C

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6ES7 193-6TP00-0TP2	PotDis-TB-P2-R	-30°C to +60°C
6ES7 193-6UP00-0BP1	PotDis-BU-P1/B-R, dunkel	-30°C to +60°C
6ES7 193-6UP00-0BP2	PotDis-BU-P2/B-B, dunkel	-30°C to +60°C
6ES7 193-6UP00-0DP1	PotDis-BU-P1/D-R, hell	-30°C to +60°C
6ES7 193-6UP00-0DP2	PotDis-BU-P2/D-B, hell	-30°C to +60°C
6ES7 510-1DJ00-0AB0	CPU 1510	-25°C to +60°C
6ES7 510-1DJ01-0AB0	CPU 1510	-25°C to +60°C
6ES7 510-1SJ00-0AB0	CPU 1510F	-25°C to +60°C
6ES7 510-1SJ01-0AB0	CPU 1510F	-25°C to +60°C
6ES7 512-1DK00-0AB0	CPU 1512	-25°C to +60°C
6ES7 512-1DK01-0AB0	CPU 1512	-25°C to +60°C
6ES7 512-1SK00-0AB0	CPU 1512F	-25°C to +60°C
6ES7 512-1SK01-0AB0	CPU 1512F	-25°C to +60°C
6ES7 545-5DA00-0AB0	CM-DP	0°C to +60°C
6ES7 677-2AA30-0AA0	CPU 1515SP PC, 2GB	-20°C to +60°C
6ES7 677-2AA40-0AA0	CPU 1515SP PC, 4GB	-20°C to +60°C
6ES7 677-2DB40-0AA0	CPU 1515-2 SP PC	-30°C to +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

Section – 2

SIMATIC ET 200SP Modules

Model No.	Description	Tambient
6ES7 132-6GD50-0BA0	RQ 4 x 24VDC/2A HF	-30°C to +60°C
6ES7 132-6GD51-a	RQ 4x24VUC/2A CO ST	0°C to +60°C
6ES7 132-6HD00-0BB0	RQ 4x24Vuc...230Vuc/5A	0°C to +60°C
6ES7 132-6HD01-0BB1	RQ 4x120VDC-230VAC/5A NO ST	-30°C to +60°C
6ES7 132-6MD00-0BB1	RQ 4x120VDC-230VUC/5A NO MA ST	-30°C to +60°C
6ES7 136-6RA00-0BF0	F-RQ 1 x24-48VDC 124-230VAC/3A	0°C to +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.
3. See instruction manual for deratings related to maximum current and reduced temperatures.

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.

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16. Certificate History

Details of the supplements to this certificate are described below:

Date	Description
4 th May 2012	Original Issue.
31 st July 2018	<u>Supplement 19:</u> Report Reference – PR449630 dated 31 st July 2018. Description of the Change: Added DQ modules, base units, and potential distributor module. Removed T-ambient & Tcode columns.
9 th August 2018	<u>Supplement 20:</u> Report Reference – PR450383 dated 9 th August 2018. Description of the Change: Update model numbers.
13 th November 2018	<u>Supplement 21:</u> Report Reference – PR450970 dated 13 th November 2018. Description of the Change: Added 6ES7 136-6AA00-0CA1, 6ES7 155-6AU01-0CN0 and 6ES7 155-6BU01-0CN0 model numbers and updated 6ES7 155-6AU01-a and 6ES7 155-6BU00-a.
17 th January 2019	<u>Supplement 22:</u> Report Reference – RR216683 dated 17 th January 2019. Description of the Change: Adding base units 6ES7193-6BP60-0BA0 & -0DA0. Added ambient temperature column.
13 th March 2019	<u>Supplement 23:</u> Report Reference – RR216793 dated 13 th March 2019. Description of the Change: Adjusted ambient temperature range and added last 4 digits to model numbers for several modules.
22 nd April 2019	<u>Supplement 24:</u> Report Reference – PR453014 dated 22 nd April 2019. Description of the Change: Add 6ES7 131-6CF00-0AU0, 6ES7 134-6JD00-0DA1, 6ES7 134-6PA00-0CU0, 6ES7 134-6PA20-0CU0, and 6ES7 155-6AU30-0CN0 models.
2 nd May 2019	<u>Supplement 25:</u> Report Reference: – RR217969 dated 2 nd May 2019. Description of the Change: Nonincendive re-examination of all modules. Created separate section for modules still approved to old edition of the standard.
22 nd May 2019	<u>Supplement 26:</u> Report Reference: – RR217916 dated 22 nd May 2019. Description of the Change: Adjusted ambient temperature range for additional modules.
16 th August 2019	<u>Supplement 27:</u> Report Reference: – PR453951 dated 16 th August 2019. Description of the Change: Addition of 6ES7 138-6AA01-0BA0 and 6ES7 677-2DB40-0AA0.

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