

# BESCHEINIGUNG

## (1) Baumusterprüfung

(2) **Produkt zur bestimmungsgemäßen Verwendung in explosionsgefährdeten Bereichen – Richtlinie 2014/34/EU**

(3) Baumusterprüfbescheinigung Nummer: **DEKRA 12ATEX0038 X** Ausgabe Nummer:17

(4) Produkt: **Programmable Logic Controller Systems SIMATIC ET 200SP Module Typ 6ES7 ...**

(5) Hersteller: **Siemens AG**

(6) Anschrift: **Werner-von-Siemens-Strasse 50, 92224 Amberg, Deutschland**

(7) Dieses Produkt sowie die verschiedenen zulässigen Ausführungen ist in der Anlage zu dieser Baumusterprüfbescheinigung und in den zugehörigen Unterlagen festgelegt.

(8) DEKRA Certification B.V. bescheinigt für dieses Produkt die Erfüllung der wesentlichen Sicherheits- und Gesundheitsanforderungen für den Entwurf und den Bau von Produkten zur bestimmungsgemäßen Verwendung in explosionsgefährdeten Bereichen gemäß Anhang II der Richtlinie.

Die Ergebnisse der Prüfung sind im vertraulichen Prüfbericht Nr. 215296100, Ausgabe 17 festgelegt worden.

(9) Die wesentlichen Sicherheits- und Gesundheitsanforderungen werden erfüllt durch Übereinstimmung mit:

**EN 60079-0 : 2012 + A11 : 2013**

**EN 60079-15 : 2010**

außer in Bezug auf die in Punkt 18 der Anlage dargelegten Anforderungen.

(10) Falls das Zeichen "X" hinter der Bescheinigungsnummer steht, wird auf besondere Bedingungen für die Anwendung des Produkts in der Anlage zu dieser Bescheinigung hingewiesen.

(11) Diese Baumusterprüfbescheinigung bezieht sich nur auf den Entwurf und den Bau des spezifizierten Produkts und nicht auf das Herstellungsverfahren und die Lieferung dieses Produkts.

(12) Die Kennzeichnung des Produkts umfasst Folgendes:



**II 3 G**

**Ex nA IIC T4 Gc**

Datum der Bescheinigung: 23. August 2016

DEKRA Certification B.V.

A handwritten signature in blue ink, appearing to read 'R. Schuller'.

R. Schuller  
Certification Manager

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(15) **Beschreibung**

Module Typ 6ES7 ... für Verwendung in Programmable Controller Systems SIMATIC ET 200SP.

Die Typenbezeichnung, der Umgebungstemperaturbereich und die Temperaturklasse der Module sind **Tabelle 1** zu entnehmen.

**Elektrische Daten**

Die elektrischen Daten von Versorgung, Eingangs- und Ausgangstromkreisen der Module sind **Tabelle 1** zu entnehmen.

**Errichtungshinweise**

Das mit den Geräten mitgelieferte Handbuch ist um eine sichere Anwendung zu gewährleisten bis ins Detail zu befolgen.

(16) **Prüfbericht Nummer**

Nr. 215296100, Ausgabe 17.

(17) **Besondere Bedingungen**

1. Die Module sind in ein geeignetes Gehäuse dass eine Schutzart von mindestens IP54 gemäss EN 60079-15 gewährleistet, unter Berücksichtigung der Umgebungsbedingungen bei der Verwendung, zu errichten.
2. Es müssen Maßnahmen zum Schutz gegen eine Überschreitung der Nennbetriebsspannung durch kurzzeitige Störspannungen um mehr als 119 V getroffen werden.

(18) **Wesentliche Sicherheits- und Gesundheitsanforderungen**

Von den Normen unter (9) abgedeckt.

(19) **Prüfungsunterlagen**

Wie erwähnt in Prüfbericht Nr. 215296100, Ausgabe 17.

(20) **Bescheinigungsübersicht**

Ausgabe Nr. 1 -	215296100	Erstbescheinigung
Ausgabe Nr. 2 ... 16 -		Überarbeitete Konstruktion und zugabe von Modulen
Ausgabe Nr. 17-	219651200	Zugabe von Modulen

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**Ausgabe Nr. 17**

**Tabelle 1**

Description	Type/MLFB No.	Temp. code	Ambient Range	Technical Data	Supply Volt.
Base Unit	6ES7 193-6BP00-a	T4	0...+60°C	supply 24 Vdc, 10 A at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
Base Unit	6ES7 193-6BP20-aaAa	T4	0...+60°C	supply 24 Vdc, 10 A at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
Base Unit	6ES7 193-6BP40-a	T4	0...+60°C	supply 24 Vdc, 10 A at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
Interface Module IM 155-6 PN ST	6ES7 155-6AU00-aBaa	T4	0...+60°C	supply 24 Vdc, 340mA at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
BA 2x RJ 45 Busadapter	6ES7 193-6AR00-a	T4	0...+60°C	at 50°C vertically mounted at 60°C horizontally mounted	-
Servermodule	6ES7 193-6PA00-a	T4	0...+60°C	at 50°C vertically mounted at 60°C horizontally mounted	-
8DI, 24Vdc ST	6ES7 131-6BF00-aBaa	T4	0...+60°C	supply - 24 Vdc, 750 mA Inputs - 24 Vdc, 8 channels at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
16DI, 24Vdc ST	6ES7 131-6BH00-a	T4	0...+60°C	supply - 24 Vdc, 90 mA Inputs - 24 Vdc, 16 channels at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
8DQ, 24Vdc/0,5A ST	6ES7 132-6BF00-aBaa	T4	0...+60°C	supply - 24 Vdc, 4 A Outputs - 24 Vdc, 8 channels 0.5 A p.d. / 0.5 A res. / 5 W tung. at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
16DQ, 24Vdc/0,5A ST	6ES7 132-6BH00-a	T4	0...+60°C	supply - 24 Vdc, 8 A Outputs - 24 Vdc, 8 channels 0.5 A p.d. / 0.5 A res. / 5 W tung. at 40°C to 60°C: 8 A to 4 A horizontally mounted at 30°C to 50°C: 8 A to 4 A vertically mounted	24Vdc
4DQ, 24Vdc/2A ST	6ES7 132-6BD20-aBaa	T4	0...+60°C	supply - 24 Vdc, 8 A Outputs - 24 Vdc, 4 channels 2 A p.d. / 2 A res. / 10 W tung. at 40°C to 60°C: 8 A to 4 A horizontally mounted at 30°C to 50°C: 8 A to 4 A vertically mounted	24Vdc
4AI, I 2-/4-wire ST	6ES7 134-6GD00-a	T4	0...+60°C	supply - 24 Vdc, 117 mA 4 Input channels at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
4AI, U / I 2-wire ST	6ES7 134-6HD00-a	T4	0...+60°C	supply - 24 Vdc, 117 mA 4 Input channels At 50°C vertically mounted At 60°C horizontally mounted	24Vdc
4AI, RTD/TC 2-/3-/4-wire HF	6ES7 134-6JD00-a	T4	0...+60°C	supply - 24 Vdc, 35 mA 4 Input channels At 50°C vertically mounted At 60°C horizontally mounted	24Vdc
4AQ, 4 x U / I ST	6ES7 135-6HD00-a	T4	0...+60°C	supply - 24 Vdc, 150 mA 4 Output channels at 40°C to 60°C: 4 to 2 channel horizontally mounted at 30°C to 50°C: 4 to 2 channel vertically mounted	24Vdc
CM PtP	6ES7 137-6AA00-a	T4	0...+60°C	supply - 24 Vdc, 29 mA at 30°C to 60°C: 4 to 1 channel horizontally mounted at 20°C to 50°C: 4 to 1 channel vertically mounted	24Vdc
Base Unit	6ES7 193-6BP20-aaB0	T4	0...+60°C	supply 24 Vdc, 10 A at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
Base Unit	6ES7 193-6BP20-aaCa	T4	0...+60°C	supply 24 Vdc, 10 A at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
BA 2x FC Busadapter	6ES7 193-6AF00-a	T4	0...+60°C	at 50°C vertically mounted at 60°C horizontally mounted	-

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8DI, 24Vdc HF	6ES7 131-6BF00-aCaa	T4	0...+60°C	supply - 24 Vdc, 760 mA Inputs - 24 Vdc, 8 channels at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
8DQ, 24Vdc/0,5A HF	6ES7 132-6BF00-aCaa	T4	0...+60°C	supply - 24 Vdc, 4 A Outputs - 24 Vdc, 8 channels 0.5 A p.d. / 0.5 A res. / 5 W tung. at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
IO-Link Master	6ES7 137-6BD00-a	T4	0...+60°C	supply - 24 Vdc Input current - 1,25 A 4 channels (IO-Link or DI or DO) Output channels - 0.1 A per channel at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
8 F-DI, 24Vdc HF	6ES7 136-6BA00-a	T4	0...+60°C	supply - 24 Vdc, 900 mA Inputs - 24 Vdc, 8 channels at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
4F-DQ, 24Vdc/2A PM HF	6ES7 136-6DB00-a	T4	0...+60°C	supply - 24 Vdc, 6.1 A Outputs - 24 Vdc, 4 channels 2 A p.d. / 2 A res. / 10 W tung. at 50°C: 4 A total load vertically mounted at 60°C: 4 A total load horizontally mounted at 50°C: 5 A total load horizontally mounted at 40°C: 6 A total load horizontally mounted	24Vdc
F-PM-E, 24Vdc / 10A PPM	6ES7 136-6PA00-a	T4	0...+60°C	supply - 24 Vdc, 8.7 A Inputs - 24 Vdc, 2 channels Outputs - 24 Vdc, 1 channel 8 A p.d. / 8 A res. at 50°C: 4 A total load vertically mounted at 60°C: 4 A total load horizontally mounted at 50°C: 6 A total load horizontally mounted at 40°C: 8 A total load horizontally mounted	24Vdc
IM 151-9F PN CPU	6ES7 151-9FB00-a	T4	0...+60°C	supply - 24 Vdc, 670 mA at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
AI 2xU/I 2-4wire HS	6ES7 134-6HB00-aDaa	T4	0...+60°C	supply - 24 Vdc, 39 mA 2 Input channels at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
AQ 2xU/I HS	6ES7 135-6HB00-aDaa	T4	0...+60°C	supply - 24 Vdc, 90 mA 2U/I-Output channels At 0°C to 50°C: 2 I-channels horizontally mounted At 50°C to 60°C: 1 I-channel horizontally mounted At 0°C to 40°C: 2 I-channels vertically mounted At 40°C to 50°C: 1 I-channel vertically mounted At 0°C to 55°C: 2 U-channels horizontally mounted At 55°C to 60°C: 1 U-channel horizontally mounted At 0°C to 45°C: 2 U-channels vertically mounted At 45°C to 50°C: 1 U-channel vertically mounted	24Vdc
Interface module IM 155-6 PN HF	6ES7 155-6AU00-aCaa	T4	0...+60°C	supply - 24 Vdc, 700 mA at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
Interface module IM 155-6 DP HF	6ES7 155-6BU00-a	T4	0...+60°C	supply - 24 Vdc, 250 mA at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
Technology Module TM Count 1x24V	6ES7 138-6AA00-a	T4	0...+60°C	supply - 24 Vdc, 1.4 A Inputs - 24 Vdc, 3 channels Outputs - 24 Vdc, 2 channel 0.5 A p.d. / 0.5 A resistive / 5W tungsten At 50°C: 1 A total load vertically mounted At 60°C: 0.5 A total load horizontally mounted At 55°C: 1 A total load horizontally mounted	-
8DI, 24Vdc SRC BA	6ES7 131-6BF60-a	T4	0...+60°C	supply - 24 Vdc, 68 mA Inputs - 24 Vdc, 8 channels at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
8DQ, 24Vdc/0,5A SINK BA	6ES7 132-6BF60-a	T4	0...+60°C	supply - 24 Vdc, 4 A Outputs - 24 Vdc, 8 channels 0.5 A p.d. / 0.5 A res. / 5 W tung. at 50°C vertically mounted at 60°C horizontally mounted	24Vdc

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8DI NAMUR HF	6ES7 131-6TF00-a	T4	0...+60°C	supply - 24 Vdc, 70 mA Inputs - 24 Vdc, 8 channels at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
4DQ, 24Vdc/2A HF	6ES7 132-6BD20-aCaa	T4	0...+60°C	supply - 24 Vdc, 8 A Outputs - 24 Vdc, 4 channels 2 A p.d. / 2 A res. / 10 W tung. at 40°C to 60°C: 8 A to 4 A horizontally mounted at 30°C to 50°C: 8 A to 4 A vertically mounted	24Vdc
AI 2xU/I 2-4wire HF	6ES7 134-6HB00-aCaa	T4	0...+60°C	supply - 24 Vdc, 240 mA 2 Input channels at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
8AI, RTD/TC 2-wire HF	6ES7 134-6JF00-a	T4	0...+60°C	supply - 24 Vdc, 35 mA 8 Input channels At 50°C vertically mounted At 60°C horizontally mounted	24Vdc
AQ 2xU/I HF	6ES7 135-6HB00-aCaa	T4	0...+60°C	supply - 24 Vdc, 90 mA 2U/I-Output channels at 0°C to 45°C: 2 I-channels horizontally mounted at 45°C to 50°C: 1 I-channel horizontally mounted at 0°C to 40°C: 2 I-channels vertically mounted at 40°C to 50°C: 1 I-channel vertically mounted at 0°C to 50°C: 2 U-channels horizontally mounted at 50°C to 60°C: 1 U-channel horizontally mounted at 0°C to 55°C: 2 U-channels vertically mounted at 55°C to 60°C: 1 U-channel vertically mounted	24Vdc
Technology Module TM PosInput1	6ES7 138-6BA00-a	T4	0...+60°C	supply - 24 Vdc, 1.4 A Inputs - 24 Vdc, 2 channels Outputs - 24 Vdc, 2 channels 0.5 A p.d. / 0.5 A resistive / 5W tungsten at 50°C: 1 A total load vertically mounted at 60°C: 0.5 A total load horizontally mounted at 55°C: 1 A total load horizontally mounted	24Vdc
BA 2x SRC Busadapter	6ES7 193-6AP00-a	T4	0...+60°C	at 50°C vertically mounted at 60°C horizontally mounted	-
Base Unit	6ES7 193-6BP20-aaB1	T4	0...+60°C	supply 24 Vdc, 10 A at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
Base Unit	6ES7 193-6BP20-aaFa	T4	0...+60°C	supply 24 Vdc, 10 A at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
BA Send (2xFC)	6ES7 193-6AS00-a	T4	0...+60°C	at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
BU Send (Base Unit)	6ES7 193-6BN00-a	T4	0...+60°C	at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
CPU 1510	6ES7 510-1DJ00-a	T4	0...+60°C	supply 24 Vdc, 0.6 A at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
CPU 1510F	6ES7 510-1SJ00-a	T4	0...+60°C	supply 24 Vdc, 0.6 A at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
CPU 1512	6ES7 512-1DK00-a	T4	0...+60°C	supply 24 Vdc, 0.6 A at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
CPU 1512F	6ES7 512-1SK00-a	T4	0...+60°C	supply 24 Vdc, 0.6 A at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
CM - DP	6ES7 545-5DA00-a	T4	0...+60°C	at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
Technology Module TM Timer DI/DQ 10x24V	6ES7 138-6GC00-a	T4	0...+60°C	supply - 24 Vdc, 3.5 A Inputs - 24 Vdc, 4 channels Outputs - 24 Vdc, 6 channels 0.5 A p.d. / 0.5 A resistive / 5W tungsten Total load 3 A at 35°C to 50°C: 3.5 A to 1.2 A total load vertically mounted at 45°C to 60°C: 3.5 A to 1.2 A total load horizontally mounted	24Vdc

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CPU 1515SP PC 2GB (Embedded controller)	6ES7 677-2AA30-a	T4	0...+60°C	supply - 24 Vdc, 1.5 A At 0°C to 55°C: max. 64 modules, 2x 0,5A and 0,1A USB-load, horizontally mounted At 0°C to 60°C: max. 32 modules, 0,3A USB-load, horizontally mounted At 0°C to 50°C: max. 32 modules, 0,3A USB-load, vertically mounted	24Vdc
CPU 1515 SP PC 4GB (Embedded controller)	6ES7 677-2AA40-a	T4	0...+60°C	supply - 24 Vdc, 1.5 A At 0°C to 55°C: max. 64 modules, 2x 0,5A and 0,1A USB-load, horizontally mounted At 0°C to 60°C: max. 32 modules, 0,3A USB-load, horizontally mounted At 0°C to 50°C: max. 32 modules, 0,3A USB-load, vertically mounted	24Vdc
Interface Module IM 155-6 PN BA	6ES7 155-6AR00-a	T4	0...+60°C	supply 24 Vdc, 300mA at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
8DI, 24Vdc BA	6ES7 131-6BF00-aAaa	T4	0...+60°C	supply - 24 Vdc, 770 mA Inputs - 24 Vdc, 8 channels at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
8DI, 24Vdc HS	6ES7 131-6BF00-aDaa	T4	0...+60°C	supply - 24 Vdc, 770 mA Inputs - 24 Vdc, 8 channels at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
4DQ, 24Vdc/2A HS	6ES7 132-6BD20-aDaa	T4	0...+60°C	supply - 24 Vdc, 8 A Outputs - 24 Vdc, 4 channels 2 A p.d. / 2 A res. / 10 W tung. At 25°C to 50°C: 8 A to 4 A total load vertically mounted At 35°C to 60°C: 8 A to 2.5 A total load horizontally mounted	24Vdc
8AI, I 2-/4- wire BA	6ES7 134-6GF00-a	T4	0...+60°C	supply - 24 Vdc, 725 mA 8 Input channels at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
8AI, U BA	6ES7 134-6FF00-a	T4	0...+60°C	supply - 24 Vdc, 25 mA 8 Input channels at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
BA SCRJ / RJ45 Busadapter	6ES7 193-6AP20-a	T4	0...+60°C	at 50°C vertically mounted at 60°C horizontally mounted	-
BA SCRJ / FC Busadapter	6ES7 193-6AP40-a	T4	0...+60°C	at 50°C vertically mounted at 60°C horizontally mounted	-
CPU 1510	6ES7 510-1DJ01-a	T4	0...+60°C	supply 24 Vdc, 0.6 A at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
CPU 1510F	6ES7 510-1SJ01-a	T4	0...+60°C	supply 24 Vdc, 0.6 A at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
CPU 1512	6ES7 512-1DK01-a	T4	0...+60°C	supply 24 Vdc, 0.6 A at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
CPU 1512F	6ES7 512-1SK01-a	T4	0...+60°C	supply 24 Vdc, 0.6 A at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
Technology Module TM 2x24V Pulse	6ES7 138-6DB00-a	T4	0...+60°C	supply - 24 Vdc, 4.3 A Inputs - 24 Vdc, 2 channels Outputs - 24 Vdc, 2 channels 2.0 A p.d. / 2.0 A resistive / 10 W tungsten Total load 3 A at 35°C to 50°C: 4.3 A to 2.7 A total load vertically mounted at 45°C to 60°C: 4.3 A to 2.7 A total load horizontally mounted	24Vdc
8DQ, 24Vdc/0,5A BA	6ES7 132-6BF00-aAaa	T4	0...+60°C	supply - 24 Vdc, 4 A Outputs - 24 Vdc, 8 channels 0.5 A p.d. / 0.5 A res. / 5 W tung. at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
AI 2xI 2-/4-wire ST	6ES7 134-6GB00-a	T4	0...+60°C	supply - 24 Vdc, 245 mA 2 Input channels At 50°C vertically mounted At 60°C horizontally mounted	24Vdc

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AI 2xU ST	6ES7 134-6FB00-a	T4	0...+60°C	supply - 24 Vdc, 37 mA 2 Input channels At 50°C vertically mounted At 60°C horizontally mounted	24Vdc
AQ 2xI ST	6ES7 135-6GB00-a	T4	0...+60°C	supply - 24 Vdc, 110 mA 2 Output channels At 50°C vertically mounted At 60°C horizontally mounted	24Vdc
AQ 2xU ST	6ES7 135-6FB00-a	T4	0...+60°C	supply - 24 Vdc, 80 mA 2 Output channels At 50°C vertically mounted At 60°C horizontally mounted	24Vdc
BA 2xLC Busadapter	6ES7 193-6AG00-a	T4	0...+60°C	at 50°C vertically mounted at 60°C horizontally mounted	-
BA LC / RJ45 Busadapter	6ES7 193-6AG20-a	T4	0...+60°C	at 50°C vertically mounted at 60°C horizontally mounted	-
BA LC / FC Busadapter	6ES7 193-6AG40-a	T4	0...+60°C	at 50°C vertically mounted at 60°C horizontally mounted	-
Interface module IM 155-6 PN HS	6ES7 155-6AU00-aDaa	T4	0...+60°C	supply - 24 Vdc, 700 mA At 50°C vertically mounted At 60°C horizontally mounted	24Vdc

Der Zusatz –a bezeichnet jeden Buchstaben oder Zahl, die sich auf nicht elektrische Eigenschaften beziehen, z.B. Sprache, Verpackung, Dokumentation usw.