CERTIFICATE

(1) Type Examination

(2) **Product intended for use in potentially explosive atmospheres - Directive 2014/34/EU**

(3) Type Examination Certificate Number: **KEMA 03ATEX1228 X** Issue Number: **19**

(4) Product: **Programmable Logic Controller System SIMATIC S7-300, Modules Type 6GK ...., Type 6ES7 ..., Type 6FL4 ... and Type 6NH ...**

(5) Manufacturer: **Siemens AG**

(6) Address: **Östliche Rheinbrückenstraße 50, 76187 Karlsruhe, Germany**

(7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) DEKRA Certification B.V., certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014.

The examination and test results are recorded in confidential test report no. 222459600.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0 : 2012 + A11 : 2013 **EN 60079-15 : 2010**

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

(11) This Type Examination Certificate relates only to the design and construction of the specified product and not to the manufacturing process and its monitoring.

(12) The marking of the product shall include the following:

II 3 G **Ex nA IIC T6** or **T4 Gc**

Date of certification: 21 February 2018

DEKRA Certification B.V.

R. Schuller
Certification Manager

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(13) # SCHEDULE

(14) **to Type Examination Certificate KEMA 03ATEX1228 X** Issue No. **19**

(15) **Description**
Modules Type 6GK …., Type 6ES7 …, Type 6FL4 … and Type 6NH … for use in a SIMATIC S7-300 Programmable Logic Controller System.

The type code, the ambient temperature range and the temperature class of the modules shall be taken from **table 1**.

Electrical data

The electrical data of the supply and the input and output circuits shall be taken from **table 1**.

Installation instructions

The instructions provided with the product shall be followed in detail to assure safe operation.

(16) **Report Number**

No. 222459600.

(17) **Specific conditions of use**

1. The equipment shall only be used in an area of not more than pollution degree 2, as defined in EN 60664-1.

2. The modules shall be installed in a suitable enclosure providing a degree of protection of at least IP54 according to EN 60079-15, taking into account the environmental conditions under which the equipment will be used.

3. Provisions shall be made to prevent the rated voltage from being exceeded by transient disturbances of more than 119 V.

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at item (9).

(19) **Test documentation**

As listed in Report No. 222459600.

(20) **Certificate history**

Issue 1 -	203664700	Initial certificate
Issue 2 …17 -		Revised construction and addition of modules
Issue 18 -	219637000	Addition of modules
Issue 19 -	222459600	Addition of a module

(13) **SCHEDULE**

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Table 1

Description	Type/MLFB No.	Temp. code	Ambient Range	Technical Data	Supply Volt.
S7-300 Communicaton Prozessors (CPs)					
CP 342-2	6GK7 342-5DA02-0XE0	T4	0…+60°C	100 mA / 5 V	24 V
CP 342-5	6GK7 342-5DA03-0XE0	T4	0…+60°C	24V / max.0.23 A 5V / max. 0.1 A	24 V
CP 342-5 FO	6GK7 342-5DF00-0XE0	T4	0…+60°C	100 mA / 5 V	24 V
CP 343-1	6GK7 343-1EX20-0XE0	T4	0…+60°C	————	24 V
CP 343-1 IT	6GK7 343-1GX20-0XE0	T4	0…+60°C	————	24 V
CP343-1 ERTEC Advanced	6GK7 343-1GX30-0XE0	T4	0…+60°C	24V / max. 0.8 A	24 V
CP343-1 ERTEC Advanced	6GK7 343-1GX31-0XE0	T4	0…+60°C	————	24 V
CP343-1 ERPC	6GK7 343-1FX00-0XE0	T4	0…+60°C	24V / max. 0.8 A	24 V
CP 343-5 DP 12MB	6GK7 343-5FA01-0XE0	T4	0…+60°C	100 mA / 5 V	24 V
TIM3VIE	6NH7800-3BA00	T4	0…+60°C	24V / max. 0.35 A	24 V
TIM3VIE Advanced	6NH7800-3CA00	T4	0…+60°C	24V / max. 0.35 A	24 V
TIM3VIE VICOS	6NH7808-3BA00	T4	0…+60°C	24V / max. 0.35 A	24 V
TIM4R-IE	6NH7800-4BA00	T4	0…+60°C	24V / max. 0.17A 5V / max. 0.2A	24V 5V
TIM3VIE DNP3	6NH7803-3BA00-0AA0	T4	0…+60°C	24V / max. 0.35 A	24 V
TIM4R-IE DNP3	6NH7803-4BA00-0AA0	T4	0…+60°C	24V / max. 0.17A 5V / max. 0.2A	24V 5V
CP343-1 LEAN BACNET	6FL4343-1CX00-0XE0	T4	0…+60°C	24V / max.0.2 A 5V / max. 0.2 A	24 V 5 V
CP343-1 PNIO Standard	6GK7343-1EX21-0XE0	T4	0…+60°C	24V / max.0.15 A 5V / max. 0.2 A	24 V 5 V
CP343-1 PNIO Advanced	6GK7343-1GX21-0XE0	T4	0…+60°C	24V / max.0.15 A 5V / max. 0.2 A	24 V 5 V
CP343-1 LEAN	6GK7343-1CX00-0XE0	T4	0…+60°C	24V / max.0.2 A 5V / max. 0.2 A	24 V 5 V
CP343-1 LEAN	6GK7343-1CX10-0XE0	T4	0…+60°C	24V / max.0.2 A 5V / max. 0.2 A	24 V 5 V
IE/PB-Link	6GK1 411-5AA00	T4	0…+60°C	-----	24 V
CP343-1	6GK7343-1EX30-0XE0	T4	0…+60°C	24V / max.0.2 A 5V / max. 0.2 A	24 V 5 V
CP343-1 BACnet	6FL4343-1CX10-0XE0	T4	0…+60°C	24V / max.0.2 A 5V / max. 0.2 A	24 V 5 V
IE/PB-Link	6GK1 411-5AA20	T4	0…+60°C	100 mA / 5 V	24 V
IE/PB-Link PNIO	6GK1411-5AB00	T4	0…+60°C	24V / max. 0.35 A	24 V
DP/AS-i Link 2.0E	6GK1 415-2AA01	T4	0...+60°C horizontal 0…+45°C vertical	5V / max. 90 mA	24 V
CSM 377	6GK7377-1AA00-a	T4	0…+60°C	24V / max.100 mA	24 V
S7-300 / C7 Memory Cards					
Memory Card FEPROM 16kB	6ES7 951-0KD00-0AA0	T4	0…+75°C	————	5Vdc
Memory Card FEPROM 32kB	6ES7 951-0KE00-0AA0	T4	0…+75°C	————	5Vdc
Memory Card FEPROM 64kB	6ES7 951-0KF00-0AA0	T4	0…+75°C	————	5Vdc
Memory Card FEPROM 128kB	6ES7 951-0KG00-0AA0	T4	0…+75°C	————	5Vdc
Memory Card FEPROM 512kB	6ES7 951-0KJ00-0AA0	T4	0…+75°C	————	5Vdc
Memory Card MODR-K8 128 kB	6ES7 951-0AG00-0AA0	T4	0…+75°C	————	5Vdc
Memory Card MODF-K8 256 kB	6ES7 951-0KH00-0AA0	T4	0…+75°C	————	5Vdc
Memory Card MODR-K16 256 kB	6ES7 951-1AH00-0AA0	T4	0…+75°C	————	5Vdc
Memory Card MODR-K16 512 kB	6ES7 951-1AJ00-0AA0	T4	0…+75°C	————	5Vdc
Memory Card MODR-K16 1 MB	6ES7 951-1AK00-0AA0	T4	0…+75°C	————	5Vdc
Memory Card MODR-K16 2 MB	6ES7 951-1AL00-0AA0	T4	0…+75°C	————	5Vdc
Memory Card MODF-K16 256 kB	6ES7 951-1KH00-0AA0	T4	0…+75°C	————	5Vdc
Memory Card MODF-K16 1 MB	6ES7 951-1KK00-0AA0	T4	0…+75°C	————	5Vdc

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Memory Card MODF-K16 2 MB	6ES7 951-1KL00-0AA0	T4	0…+75°C	————	5Vdc
Memory Card MODF-K16 4 MB	6ES7 951-1KM00-0AA0	T4	0…+75°C	————	5Vdc
Memory Card MODF-K16 8 MB	6ES7 951-1KP00-0AA0	T4	0…+75°C	————	5Vdc
TS Adapter II					
TS Adapter II MODEM	6ES7 972-0CB35-0XA0	T4	0…+60°C	————	24 V
TS Adapter II ISDN	6ES7 972-0CC35-0XA0	T4	0…+60°C	————	24 V
TS Adapter IE MODEM	6ES7 972-0EM00-0XA0	T4	0…+60°C	————	24 V
TS Adapter IE ISDN	6ES7 972-0ED00-0XA0	T4	0…+60°C	————	24 V
SIMATIC Remote Terminal Units					
RTU 3030C	6NH3 112-3BA00-0XX0	T4	-40…+70°C	24V / max. 1.2 A	24 V
RTU 3010C	6NH3 112-0BA00-0XX0	T4	-40…+70°C	24V / max. 1.2 A	24 V
Battery Module for RTU 3030C	6NH3 112-3BA00-1XX2	T4	-40…+70°C	7.2V / max. 1.65 A	24 V
Battery Extension Module for RTU 3030C	6NH3 112-3BA00-1XX6	T4	-40…+70°C	7.2V / max. 1.65 A	24 V

The Suffix –a denotes any letter or number referring to non-electrical properties as product associates, language, delivery packing, documentation etc.