KEMA Quality

(1) # TYPE EXAMINATION CERTIFICATE

(2) **Equipment and protective systems intended for use in potentially explosive atmospheres - Directive 94/9/EC**

(3) Type Examination Certificate Number: **KEMA 03ATEX1228 X** Issue Number: **11**

(4) Equipment: **Programmable Logic Controller System SIMATIC S7-300, Modules Type 6GK ...., Type 6ES7 ..., Type 6FL4 ... and Type 6NH7 ...**

(5) Manufacturer: **Siemens AG**

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

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

(8) KEMA Quality B.V. certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the directive.

The examination and test results are recorded in confidential test report no. 213633100.

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

EN 60079-0 : 2006 **EN 60079-15 : 2005**

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This Type Examination Certificate relates only to the design, examination and tests of the specified equipment and not to the manufacturing process and supply of this equipment.

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

II 3 G Ex nA II T4

This certificate is issued on June 25, 2010 and, as far as applicable, shall be revised before the date of cessation of presumption of conformity of (one of) the standards mentioned above as communicated in the Official Journal of the European Union.

KEMA Quality B.V.

C.G. van Es
Certification Manager

PRODUCTS RvAC 001

KEMA Quality B.V. Utrechtseweg 310, 6812 AR Arnhem P.O. Box 5185, 6802 ED Arnhem The Netherlands
T +31 26 3 56 20 00 F +31 26 3 52 58 00 www.kemaquality.com Registered Arnhem 09085396

(13) # SCHEDULE

(14) **to Type Examination Certificate KEMA 03ATEX1228 X** Issue No. **11**

(15) **Description**

Modules Type 6GK ..., Type 6ES7 ..., Type 6FL4 ... and Type 6NH7 ... 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 manual provided with the equipment shall be followed in detail to assure proper and safe operation.

(16) **Test Report**

KEMA No. 213633100.

(17) **Special conditions for safe use**

1. The modules shall be installed in a suitable enclosure providing a degree of protection of at least IP54 according to EN 60529, taking into account the environmental conditions under which the equipment will be used.

2. When the temperature under rated conditions exceeds 70 °C at the cable or conduit entry point, or 80 °C at the branching point of the conductors, the temperature specification of the selected cable shall be in compliance with the actual measured temperature.

3. Provisions shall be made to prevent the rated voltage from being exceeded by transient disturbances of more than 40%.

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

Covered by the standard listed at (9).

(19) **Test documentation**

As listed in Test Report No. 213633100.

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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 343-1EX11-0XE0	T4	0...+60°C	———	24 V
CP 343-1	6GK7 343-1EX20-0XE0	T4	0...+60°C	———	24 V
CP 343-1 PN	6GK7 343-1HX00-0XE0	T4	0...+60°C	———	24 V
CP 343-1 IT	6GK7 343-1GX11-0XE0	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 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
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

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