



NIPPON KAIJI KYOKAI

**TYPE APPROVAL CERTIFICATE
FOR AUTOMATIC DEVICES AND EQUIPMENT**

Certificate No. TA14078M

This is to certify that the undernoted product(s) has/have been approved in accordance with the requirements specified in Chapter 1, Part 7 of "Guidance for the Approval and Type Approval of Materials and Equipment for Marine Use" and the relevant Society's Rules.

This certificate is issued to

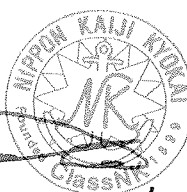
Manufacturer:	Siemens AG 1 1A AS RD ST Type Test
Place of Manufacturing:	Ostliche Rheinbruckenstr. 50, Karlsruhe, Germany
Product description:	Programmable Electronic System
Model:	SIMATIC NET

Approval No.:	01A034
Valid until:	5 November 2018

This certificate is subject to the conditions specified in the attached sheet(s).

Issued at Tokyo on 6 November 2013.


Y. Shibata
General Manager
Machinery Department



Note: The manufacturer, if desired, is requested to apply to the Society for renewal prior to the expiration date.

Specification & documents:

1. Particulars: Power supply: AC 100 - 240V, 50/60Hz

DC 24V

2. Components and reference documents:

Components	Type		Documents
Scalance	6GK5	104-2, 414, 106-1, 101, 491, 408, 108, 492, 495, 496, 208, 202-2 IRT, 744, 788, 005, 112, 116, 124, 212, 216, 224, 307, 308, 310, 784, 204, 206, 302, 306, 320, 324, 528	Catalog ST 70•1999, Catalog ST 70•News 2000, Catalog ST 80•1999, Siemens Katalog CA 01 04/00SED, C79000-G8976-C199-01, C79000-G8976-C184-02, A5E00288912-02, A5E00349864 Release 2, Siemens IK PI-2005, C79000-G8976-C186-01, C79000-G8900-C196-01,
		EAP-W1-RJ-E1	Manual A5E00349864, A2B00065774D, A2B00051521A, C79000-G8976-C186, A5E01048819-01, A5E01113043-10, A2B00073499E
		EAP-W1-RJ-I1	
		EAP-W2-RJ-E2	
		EAP-W2-RJ-I2	
		EAP-W3-RJ-E3	
		EAP-W1-MM-E1	
		EAP-W1-MM-I1	
		EAP-W2-MM-E2	
		EAP-W2-MM-I2	
		EAP-W3-MM-E3	
	S30122-X8000-xxx	EAP-W2-RJ-I2	
		EAP-W2-RJ-E2	
Module	6GK5 991-..., 6GK5 992-..., 6GK5 993-...		
Security Module	6GK5 612, 6GK5 613, 6GK5 602		
Power Supply (PS)	6GK5 791		
Modular Outlet	6GK1 901		
IE/PB Link	6GK1 411		
OBT	6GK1 500		
BT	-		
OSM	-		
ESM	-		
OLM	6GK1 503		
CSM Module	6GK7 277-..., 6GK7 377-...		
S7 1200 CM	6GK7 242-..., 6GK7 243-...		

3. Documentation and Test Reports:

A&D AS E423-0102, A&D AS RD ST Type Test-02/05, A&D ATS 6/05-M0601798-A1,
A&D AS RD ST Type Test-11/2005, A&D AS RD ST Type Test-0606,
A&D AS RD ST Type Test-08/07,
11A AS RD ST Type Test report No. 2008-K035-HV-01, -02, -03, -04, -05,
11A AS RD ST Type Test-2011-02,
Information for flame retardant according UL746C chapter 17

4. Installation

- OSM/ESM: Montage only with S7-300 profile rail or wall mounting
- Scalance 6GK5 744/788/414/491/492/495/496/786/784
Montage only with S7-300 profile rail or wall mounting possible
- Modular Outlet: Montage with mounting rail 35mm or wall mounting possible
- Scalance 6GK5 104-2, 106-1, 108, 208, 202-2 IRT, 101, 005, 112, 116, 124, 212, 216,
224, 307, 308, 310 and power supply :
Montage with S7-300 profile rail, mounting rail 35mm or wall mounting
- IE/PB Link: Montage only with S7-300 profile rail
- OLM: Montage with mounting rail 35mm
- Scalance 6GK5 408: Montage with S7-300 profile rail or mounting rail 35mm

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Attached sheet -3/3 to the Certificate No. TA14078M

Test items & approval conditions:

1. Test items:

(Applied testing items are marked with X.)

ENVIRONMENTAL TESTS		Mark
External examination		X
Operation test and performance test		X
Electric power supply failure test		X
Power supply fluctuation test	Electric	X
	Pneumatic and Hydraulic	--
Insulation resistance test		X
High voltage test		X
Pressure test (Pneumatic and Hydraulic)		--
Dry heat test (Temperature 70°C × 16 hours)		X
Damp heat test		X
Vibration test (Acceleration ± 1.0g × 1.5 hours for OBT, BT, OSM, ESM, ± 0.7g × 1.5 hours for others)		X
Inclination test		--
Cold test (Temperature -25°C × 16 hours)		X
Salt mist test		--
Electrostatic discharge immunity test		X
Radiated radio frequency immunity test		X
Conducted low frequency immunity test		X
Conducted high frequency immunity test		X
Burst / Fast transient immunity test		X
Surge immunity test		X
Radiated emission test		X
Conducted emission test		X
Flame retardant test		--

2. Approval condition:

- (1) The product is not allowed to be installed in the bridge and open decks.
- (2) Where Scalance, Power Supply, Modular Outlet and IE/PB Link are used in the bridge or open decks, these modules are to be connected to the filter, which has the following characteristics.
(I = 3A, C = 2×0.47μF + 2×4700pF, L = 4×4.7mH)
- (3) Scalance 6GK5 744/788 are only to be used in an environment where the Wireless LAN communication does not interfere with other equipment or systems.
- (4) Security Modules 6GK5 602/612/613 are only to be used with Ferrit 24V DC. Type: 74271222, Manufacturer: Wuerth

- The End -