



Certificate No. TA08569M

NIPPON KAIJI KYOKAI

Certificate
of
TYPE APPROVAL

Applicant: Siemens AG 11A AS RD ST Type Test

Place of Manufacturing: Ostliche Rheinbruckenstr. 50, Karlsruhe, Germany

Product description: Programmable Electronic System

Model : SIMATIC NET

Approval No. : 01A034

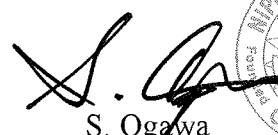
Specification & documents: As shown on the attached sheet (-1/3) and (-2/3)

Test items & approval conditions: As shown on the attached sheet (-3/3)

THIS IS TO CERTIFY that the above mentioned model of the product has been type approved for modification with **Approval No. 01A034** by the NIPPON KAIJI KYOKAI in accordance with the requirements specified in the Chapter 1, Part 7 of Guidance of the approval and type approval of materials and equipment for marine use and relevant Society's Rules.

This certificate will remain in force until the day of 5th November 2013.

Issued at Tokyo on the day of 2nd December 2008.


S. Ogawa
General Manager,
Machinery Department



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

Specification & reference documents :

1. Rating : Power Supply : AC 100-240 V, 50/60Hz
DC 24V

2. Components and reference documents:

Components	Type		Documents
Scalance	6GK5	104-2, 414, 106-1, 101, 491, 408, 108, 492, 204-2, 495, 206-1, 496, 208, 202-2 IRT, 744, 204 IRT, 788 005, 112, 116, 124, 212, 216, 224, 307, 308, 310, 784	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, Manual A5E00349864, A2B00065774D, A2B00051521A, C79000-G8976-C186, A5E01048819-01
		6GK5 786	
	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		
	S30122-X8000-xxx	EAP-W3-MM-E3	
		EAP-W2-RJ-I2	
		EAP-W2-RJ-E2	
	Security Module	6GK5 612, 6GK5 613, 6GK5 602	
Power Supply (PS)	6GK5 791		
Modular Outlet	6GK1 901		
IE/PB Link	6GK1 411		
OBT	-		
BT	-		
OSM	-		
ESM	-		
OLM	6GK1 503		

-- To be continued --

3. 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

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, 204-2, 206-1, 208, 202-2 IRT, 204 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

Testing items & approval conditions:

1. Testing 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 × 16hours)		X
Damp heat test		X
Vibration test (Acceleration $\pm 1.0g \times 1.5\text{hours}$ for OBT, BT, OSM, ESM, $\pm 0.7g \times 1.5\text{hours}$ for others)		X
Inclination test		--
Cold test (Temperature -25°C × 16hours)		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

2. Approval conditions :

- (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.
($I = 3A$, $C = 2 \times 0.47\mu F + 2 \times 4700pF$, $L = 4 \times 4.7mH$)
- (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 --