



NIPPON KAIJI KYOKAI

TYPE APPROVAL CERTIFICATE FOR AUTOMATIC DEVICES AND EQUIPMENT

Certificate No. TA16355M

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


Applicant:	Siemens AG, DF FA AS SIMATIC Type Test
Manufacturer:	Siemens AG
Place of Manufacturing:	Werner-von-Siemens-Str. 50, 92224 Amberg, Germany
Product description:	Programmable Electronic System
Model:	SIMATIC ET200SP

Approval No.:	13A031
Valid until:	13 November 2018

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

Issued at Tokyo on 28 July 2016.


Y. Shibata
General Manager
Machinery Department



Note: 1. This certificate has been issued due to addition of new component.

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

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Attached sheet -1/2 to the Certificate No. TA16355M

Specification & documents:

1. Particulars: Power supply: DC 24V, AC 120V or 230V

2. Components and reference drawings:

	Components	Documents
ET200SP	6ES7 155-, 6ES7 131-, 6ES7 132-, 6ES7 134-, 6ES7 135-, 6ES7 137-, 6ES7 193-, 6ES7 510-, 6ES7 512-, 6ES7 545-, 6ES7 138-	Catalog ST 70 - 2013 Catalog ST 80 - 2013, Manual A5E03576849-02, Manual A5E03576849, 03/2015

3. Documentation and Test Reports:

I IA AS RD ST Type Test-2013-02

Test Report: SIMATIC Type Test-2015-01, dated: 10.08.2015

- To be continued -

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Attached sheet -2/2 to the Certificate No. TA16355M

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 ±0.7g × 1.5 hours)		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 on open decks.
- (2) System for use on bridge, the power supply lines are to be protected by filter type B84113C (manufactured by Epcos or equivalent). Tested with: I=3A, C=2x0.47uF+2x4700pF, L=4x4.7mH
Except: Energy Meter 6ES7 134...only for installation in general power distribution zone.
- (3) Surge immunity: External Protective circuits required for DC systems.
See the current system manual(A5E03461486) for recommendations.
- (4) The product is to be placed inside the control cabinet using metal or flame retardant material applied UL94V-1or equivalent)

- The End -