



# NIPPON KAIJI KYOKAI

## TYPE APPROVAL CERTIFICATE FOR AUTOMATIC DEVICES AND EQUIPMENT

Certificate No.TA19169M

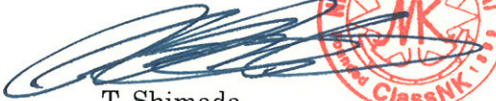
**This is to certify** that the undernoted product(s) has/have been approved in accordance with the requirements specified in Chapter 1, Part 7 of “Guidance for the Approval and Type Approval of Materials and Equipment for Marine Use” and the relevant Society's Rules.

This certificate is issued to

Applicant:	<b>SIEMENS AG DF FA AS SIMATIC Type Test</b>
Manufacturer:	<b>SIEMENS AG, Elektonikwerk Amberg SIEMENS Industrial Automation Products Ltd.</b>
Place of Manufacturing:	<b>Werner-von-Siemens-Str. 50, 92224 Amberg, Germany. Chengdu No.99, Tian Yuan Road, High Tech Zone West 611731 Chengdu City, Sichuan Province P.R. China.</b>
Product description:	<b>Programmable Electronic System</b>
Model:	<b>SIMATIC ET200SP</b>
Approval No.:	<b>13A031</b>
Valid until:	<b>13 November 2023</b>

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

Issued at Tokyo on 13 March 2019.

  
T. Shimada  
General Manager  
Machinery Department

Note (1) : The certificate has been issued due to the addition of components.

Note (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.TA19169M

**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-, 6ES7 158-, 6ES7 677-	Manual A5E03576849, 02/2018

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

SIMATIC Type Test 2018-03, dated: 25.02.2019

- To be continued -

**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)
- (5) The module: 6ES7 132-6BD20-0DA0 (High speed) fulfils the EMC requirements for installation in General Power Distribution Zones only.