



NIPPON KAIJI KYOKAI

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

Certificate No. TA14074M


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 I IA AS RD ST Type Test
Place of Manufacturing:	Werner-von-Siemens-Str. 50, 92224 Amberg, Germany
Product description:	Programmable Electronic System
Model:	SIMATIC ET200B / C / L / L-SC / M / S / X eco / eco PN / pro and SC
Approval No.:	01A030
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.

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Attached sheet -1/2 to the Certificate No. TA14074M

Specification & documents:

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

2. Components and reference documents:

Components		Documents
ET200B	6ES7 131-, 6ES7 132-, 6ES7 133-, 6ES7 134-, 6ES7 135-, 6ES7 193-	Catalog ST 70·1999, Catalog ST 70·News 2000, Catalog ST 80·1999, Siemens Katalog CA 01 04/00SED, Manual A5E00335544-01 Manual A5E00335544-02 Manual A5E01250250-06 Manual A5E01250250-07 Manual A5E00335544-07
ET200C	6ES7 141-, 6ES7 142-, 6ES7 143-, 6ES7 144-, 6ES7 145-	
ET200L / ET200L-SC	6ES7 131-, 6ES7 132-, 6ES7 133-, 6ES7 193-, 6ES7 138-, 6ES7 127-	
ET200M	6ES7 153-, 6ES7 195-, 6ES7 157-, 6ES7 158-, 6ES7 654-	
ET200S	6ES7 151-, 6ES7 131-, 6ES7 132-, 6ES7 134-, 6ES7 135-, 6ES7 138-, 6ES7 193-, 6ES7 151- (Compact)	
ET200X	6ES7 141-, 6ES7 142-, 6ES7 143-, 6ES7 144-, 6ES7 145-, 6ES7 147-, 6ES7 148-, 6GK7 142-	
ET200eco	6ES7 141-, 6ES7 142-, 6ES7 143-, 6ES7 148-, 6ES7 194-	
SC	6ES7 120-, 6ES7 121-, 6ES7 122-, 6ES7 123-, 6ES7 124-, 6ES7 972-	
ET200pro	6ES7 154-, 6ES7 141-, 6ES7 142-, 6ES7 143-, 6ES7 144-, 6ES7 145-, 6ES7 148-, 6ES7 194-	
ET200eco PN	6ES7 141-, 6ES7 142-, 6ES7 144-, 6ES7 145-, 6ES7 147-, 6ES7 148- (only : IO-Link Master), 6ES7 194-	

3. Test Reports:

AUT 7-B 8.4P-9605,

A&D AS E423-0104/0105/0106/0107,

A&D AS RD 423-0301,

A&D AS A6D ATS 6/04-M0601254,

A&D AS RD ST Type Test 01/05,

A&D ATS 6/05-M0601785-A1,

A&D AS RD ST Type Test-0606

I IA AS R&D ST Type Test 04/09

I IA AS RD ST Type Test-2012-02

Information for flame retardant according UL746C chapter 17

- To be continued -

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Attached sheet -2/2 to the Certificate No. TA14074M

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 ±4g×1.5hours for ET200eco/ET200pro/ET200eco PN (All Module) and ET200X (6ES7 141, 142, 143, 144, 145, 147 and C148 only for Power Module) (Acceleration ±0.7g×1.5hours 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:

The equipment is not allowed to be installed in the bridge and exposed weather deck area.

- The End -