



NIPPON KAIJI KYOKAI

TYPE APPROVAL CERTIFICATE FOR AUTOMATIC DEVICES AND EQUIPMENT

Certificate No. TA18538M

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, Elektronikwerk Amberg
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 2023

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

Issued at Tokyo on 06 November 2018.

T. Shimada
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.TA18538M

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-, 6ES7 516-	
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 (It is to be applied to ET200C, ET200X, ET200eco, ET200pro, ET200eco PN.)
- SIMATIC Type Test 2017-03, dated 03.03.2017

- To be continued -

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Attached sheet -2/2 to the Certificate No. TA18538M

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 +5°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 equipment is not allowed to be installed in the bridge and exposed weather deck area.
- (2) The product is to be placed inside the control cabinet using metal or flame retardant material applied UL94V-1 or equivalent. (It is to be applied to ET200B, ET200L/ET200L-SC, ET200M, ET200S, SC)

- The End -