



NIPPON KAIJI KYOKAI

Certificate

of

TYPE APPROVAL

Manufacturer:

Siemens AG A&D AS RD ST Type Test

Place of Manufacturing:

Werner-von-Siemens-Str. 50, 92224 Amberg, Germany

Product description:

Programmable Electronic System

Model:

LOGO!

Approval No.:

01A031

Specification & documents:

As shown on the attached sheet (-1/2)

Test items & approval conditions: As shown on the attached sheet (-2/2)

THIS IS TO CERTIFY that the above mentioned model of the product has been type approved for extension with **Approval No. 01A031** by the NIPPON KAIJI KYOKAI in accordance with the requirements specified in 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 12th October 2007.

General Manager, Machinery Department

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

ON KAIJI KYOKAI

Attached sheet - 1/2 to Certificate No. TA07480M

Specification & reference documents:

1.Rating: DC 12V or 24V or 12/24V, AC 120V or 230V

2. Components and reference documents:

Components		g Documents
LOGO !with suffixes	12RCL	
	12/24RC	
	12/24Rco	
	24	
	240	
	24L	
	24RC	
	24Rco	
	24RCL	
	24RCLB11	
	230RC	Catalog ST 70·1999
	230RCo	Catalog ST 70 · News 2000 Catalog ST 80 · 1999
	230RCL	Siemens Katalog CA 01 04/00SED
	230RCLB11	LOGO! Manual A5E00380835-01
	DM8 24	
	DM8 24R	
	DM8 12/24R	
	DM8 230R	
	AM2	
	AM2 PT100	·
	DM16 230R	
	DM16 24R	
	DM16 24	,
	AM2 AQ	

3. Test reports: AUT 7-B 8.4P-9606

A&D AS E423-0108 A&D AS RD 423-0301

A&D AS RD ST Type Test 01/05 A&D ATS 6/05-M0601808-A1

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Attached sheet - 2/2 to Certificate No. TA07480M

Testing items & approval conditions:

1. Testing items:

(Applied testing items are marked with X.)

ENVIRONMENTAL TESTS		
xternal examination		X
Operation test and performance test		
Electric power supply failure test		
Power supply fluctuation test	Electric	X
1 Ower supply fluctuation test	Pneumatic and Hydraulic	
Insulation resistance test		
High voltage test		
Pressure test (Pneumatic and Hydraulic)		
Dry heat test (Temperature 70°C×16hours)		
Damp heat test		
Vibration test (Acceleration ±1.0g×1.5hours)		
Inclination test		
Cold test (Temperature -25°C×16hours)		
Salt mist test		
Electrostatic discharge immunity test		
Radiated radio frequency immunity test		
Conducted low frequency immunity test		
Conducted high frequency immunity test		
Burst / Fast transient immunity test		
Surge immunity test		
Radiated emission test		
Conducted emission test		

2. Approval condition:

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