



TYPE APPROVAL CERTIFICATE

Certificate No. : HMB29074-AC006 **Initial Approval** : 17th November, 2016
Product : Programmable Logic Controller
Manufacturer : Siemens AG; DF FA AS SIMATIC Type Test
Werner-von-Siemens-Str.50, 92224 Amberg, Germany

Product Description : Type : ET200SP (Distributed Input / Output System)
- Power Sypply : 24 VDC or 120/230VAC
- ET200SP : 6ES7 137-6B../6ES7 155-6A../6ES7 155-6B..
6ES7 193-6P..
- Digital Inputs Module : 6ES7 131-6B../6ES7 131-6F../6ES7 131-6T..
- Digital Outputs Module : 6ES7 132-6B../6ES7 132-6F..
- Analog Inputs Module : 6ES7 134-6F../6ES7 134-6G../6ES7 134-6H..
6ES7 134-6J../6ES7 134-6P..
- Analog Outputs Module : 6ES7 135-6H..
- Relay Module : 6ES7 132-6H../6ES7 132-6G..
- Communication Module : 6ES7 137-6A../6ES7 137-6B../6ES7 545-5D..
- Base Unit : 6ES7 193-6A../6ES7 193-6B..
- CPU Module : 6ES7 510-1D../6ES7 512-1D..
- Technology Module : 6ES7 138-6A../6ES7 138-6B../6ES7 138-6C..
" See Appendix 1 "

Approval Condition : " See Appendix 2 "

THIS IS TO CERTIFY that the above-mentioned product has been approved in accordance with the relevant requirement of this Society's Rules and / or of the recognized standards as follows and entered in the "List of Approved Manufacturers and Type Approved Equipment".

Pt. 6, Ch. 2, Art. 301 of the Rules for Classification, Steel Ships.

This Certificate is valid until 16th November, 2021

Issued at Busan, Korea on 17th November, 2016

 **KOREAN REGISTER OF SHIPPING**

General Manager of
Marine & Ocean Equipment Team

Note : 1 : The approval will be automatically suspended and the Certificate become invalid from the expiry date of the Certificate in the event that the extension has not been granted or the renewal of the Certificate is not underway.

2 : The manufacturer should notify this Society of any modification or changes that may affect the validity of this Certificate.

Appendix 1

Product Description and/or Approval Condition

Certificate No : HMB29074-AC006

Date of Issue : 17th November, 2016

A. Product Description :

0. Power Supply : 24 VDC or 120/230VAC

1. ET200SP;

- 1) 6ES7 137-6B... IO Link Master
- 2) 6ES7 155-6A... IM155-6 PN
- 3) 6ES7 155-6B... IM155-6 DP
- 4) 6ES7 193-6P... Servermodule

2. Digital Input Module;

- 1) 6ES7 131-6B... Digital Input Module DI
- 2) 6ES7 131-6F... Digital Input Module DI
- 3) 6ES7 131-6T... Digital Input Module DI

3. Digital Output Module;

- 1) 6ES7 132-6B... Digital Output Module DO
- 2) 6ES7 132-6F... Digital Output Module DO

4. Analog Input Module;

- 1) 6ES7 134-6F... Analog Input Module AI
- 2) 6ES7 134-6G... Analog Input Module AI
- 3) 6ES7 134-6H... Analog Input Module AI
- 4) 6ES7 134-6J... Analog Input Module AI
- 5) 6ES7 134-6P... Analog Input Module AI

5. Analog Output Module;

- 1) 6ES7 135-6H... Analog Output Module AO

6. Relay Module;

- 1) 6ES7 132-6H... Relay Output Module RO
- 2) 6ES7 132-6G... Relay Output Module RO

7. Communication Module;

- 1) 6ES7 137-6A... Communication Module
- 2) 6ES7 137-6B... Communication Module
- 3) 6ES7 545-5D... Communication Module

8. Base Unit;

- 1) 6ES7 193-6A... Bus Adapter
- 2) 6ES7 193-6B... Base Units

9. CPU Module;

- 1) 6ES7 510-1D... CPU 1510SP-1PN
- 2) 6ES7 512-1D... CPU 1512SP-1PN

10. Technology Module;

- 1) 6ES7 138-6A... TM Count
- 2) 6ES7 138-6B... TM PosInput
- 3) 6ES7 138-6C... TM Timer

B. Document :

System Manual_03/2015_A5E03576849-AE, Function Manual_06/2014_A5E03461486-AB

C. Test Report :

I IA AS RD ST Type Test 2013-02, SIMATIC Type Test - 2015-01 dated 10.08.2015
E36755-00-01BS dated on 30.09.2013

- To be continued -

Appendix 2

Product Description and/or Approval Condition

Certificate No : HMB29074-AC006

Date of Issue : 17th November, 2016

D. Approval Condition ;

1. The product or packing is to be marked with manufacturer name and type designation on a suitable position
2. The product is to be installed as manufacturer's instructions.
3. For use on bridge deck, power supply lines are to be protected by filter B84113C (manufactured by Epcos or equivalent) except: Energy Meter 6ES7 134...only for installation in general power distribution zone.
4. Surge Immunity: External protective circuits required for DC systems.
See current system manual (Doc.No.: A5E03461486) for recommendations.
5. Individual Product Certification is not required.

< The End >