

TYPE APPROVAL CERTIFICATE

DNV·GL

This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the DNV GL Type Approval System.

Certificate No. **61 338 - 13 HH**

Company **Siemens AG
DF FA AS SIMATIC Type Test
Werner-von-Siemens-Str. 50
92224 Amberg, GERMANY**

Product Description **Distributed Input / Output System**

Type **ET200SP**

Environmental Category **C, EMC1***

Technical Data /
Range of Application **Power supply: 24 V DC
ET200SP:
6ES7 155- Interface Module (IM)
6ES7 131- digital input module DI
6ES7 132- digital- / relays output module DO
6ES7 134- analog Input module AI
6ES7 135- analog output module AO
6ES7 137- communication- / I/O link module
6ES7 193- base units / bus adapter (BU / BA) / Servermodules
6ES7 510-/512- CPU
6ES7 138- Technology Module
6ES7 545- CM-Module**

**Tests and evidence according Requirement class 3
Firmware Version: V01.x
Configuration Software: STEP7**

Test Standard **GL Guidelines for the Performance of Type Approvals, Chapter 2- Test
Requirements for Electrical / Electronic Equipment and Systems (VI-7-2),
Edition 2012**

Documents **Test report : I IA AS RD ST Type Test - 2013-02 dated 24-09-2013 and SIMATIC
Type Test - 2015-01 dated 10-08-2015
Technical Specification: System Manual dated 04/2013, A5E03576849-02**

Remarks **Product(s) approved by this certificate is/are accepted for installation on all
vessels classed by DNV GL.**

Valid until **2018-10-27**

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File No. **I.B.07**

Hamburg, 2015-09-17

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CPU Modules:

6ES7 510- CPU 1510SP
6ES7 512- CPU 1512SP

Modules 6ES7:

Digital Modules

6ES7 131- DI 8/16x24VDC / DI4 x 120 - 230V AC
6ES7 132- DO DQ 4/8/16x24VDC...230VAC/0,5/2A
Relay 4x24VDC/120VDC...230VAC/2A/5A

Analog Modules

6ES7134 AI2/4/8 Energy Meter
6ES7 135- AO 2/4

Communication Modules

6ES7 137- CM IO-Link/CM PTP
6ES7 545- CM DP

Interface Modules

6ES7 155- IM155-6 PN/DP

Bus Adapter / Base Units / Server Modules

6ES7 193- BA / BU / Server module

Technology Modules:

6ES7 138- TM Timer, PosInput, Count

Remarks:

System for use on bridge and deck zone, 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.

Surge Immunity: External Protective circuits required for DC systems.
See the current System Manual (A5E03461486) for recommendations.
Installation of the units described in manufacturer's instructions.

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