Certificate no.:
TAA00003KA

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Peripheral Equipment

with type designation(s)
SIPLUS S7-1500; SIPLUS ET 200SP; SIPLUS HMI TP1900; SIPLUS HMI MTP1200

issued to
Siemens Aktiengesellschaft
Fürth, **Germany**

is found to comply with
DNV rules for classification – Ships, offshore units, and high speed and light craft

Application:

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.
Location classes:

Temperature	**B*/D**
Humidity	**B**
Vibration	**A**
EMC	**B***
Enclosure	**Required protection according to the Rules shall be provided upon installation on board.**

*** see Application/Limitation**

Issued at **Hamburg** on **2025-03-18**
This Certificate is valid until **2030-03-17**.
DNV local unit: **Augsburg**

for **DNV**

Approval Engineer: **Heinz Scheffler**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to USD 300 000.

Product description

The SIPLUS modules of the following product list are made with protective coating for the use in extreme environmental conditions.

PS – Power Supply

• SIPLUS S7-1500 PS 1505 25W 24VDC	6AG1505-0KA00-7AB0
• SIPLUS S7-1500 PS 1507 60W 230VAC	6AG1507-0RA00-7AB0

CPU – Central Process Unit

• SIPLUS S7-1500 act. backpl.	6AG2590-0BD00-4AA0
• SIPLUS S7-1500 CPU 1518HF-4 PN	6AG1518-4JP00-4AB0
• SIPLUS S7-1500 CPU 1517H-3 PN	6AG1517-3HP00-4AB0

IM – Interface Module

• SIPLUS ET 200SP, IM 155-6 PN R1	6AG1155-6AU00-7HM0

DI - Digital Input Module

• SIPLUS ET 200SP F-DI 4/8x24VDC HF	6AG1136-6BA01-2CA0
• SIPLUS ET 200SP DI 8x24VDC ST	6AG1131-6BF01-7BA0
• SIPLUS ET 200SP DI 16x24VDC ST	6AG1131-6BH01-7BA0
• SIPLUS ET 200SP DI 8x24 V DC HF	6AG1131-6BF00-7CA0

DQ - Digital Output Module

• SIPLUS ET 200SP F-DQ 8x24VDC/0.5A PP HF	6AG1136-6DC00-2CA0
• SIPLUS ET 200SP F-DQ 4x24VDC/2A PM HF	6AG1136-6DB00-2CA0
• SIPLUS ET 200SP F-RQ 24VDC/24-230VAC/5A	6AG1136-6RA00-2BF0
• SIPLUS ET 200SP DQ 8x24VDC/0.5A ST	6AG1132-6BF01-7BA0
• SIPLUS ET 200SP DQ 16x24VDC/0,5A ST	6AG1132-6BH01-7BA0
• SIPLUS ET 200SP DQ 8x24VDC/0.5A HF	6AG1132-6BF00-7CA0
• SIPLUS ET 200SP DQ 8x24VDC/0.5A HF	6AG1132-6BF01-7CA0

AI - Analog Input Module

• SIPLUS ET 200SP F-AI 4xI 2-/4-wire HF	6AG1136-6AA00-2CA1
• SIPLUS ET 200SP F-AI 4xU 0..10V HF	6AG1136-6AB00-2CA1
• SIPLUS ET 200SP AI 8xI 2-/4-WIRE BA	6AG1134-6GF00-7AA1
• SIPLUS ET 200SP AI 4xU/I 2-w ST	6AG1134-6HD01-7BA1
• SIPLUS ET 200SP AI 2 x U/I 2-/4-wire HF	6AG1134-6HB00-2CA1
• SIPLUS ET 200SP AI 4 x I 2-wire 4..20mA HART	6AG1134-6TD00-2CA1

AQ - Analog Output Module

• SIPLUS ET 200SP AQ 4xU/I ST	6AG1135-6HD00-7BA1
• SIPLUS ET 200SP AQ2 x U/I HF	6AG1135-6HB00-7CA1
• SIPLUS ET 200SP AQ4 x I with HART	6AG1135-6TD00-2CA1

BU – Base Unit

• SIPLUS BaseUnit Type M0	6AG1193-6BR00-7HM0
• SIPLUS ET 200SP BU15-P16+A10+2D	6AG1193-6BP20-7DA0
• SIPLUS ET 200SP BU15-P16+A10+2B	6AG1193-6BP20-7BA0
• SIPLUS ET 200SP BU15-P16+A0+2B	6AG1193-6BP00-7BA0
• SIPLUS ET 200SP BU15-P16+A0+2D	6AG1193-6BP00-7DA0
• SIPLUS ET 200SP BU20-P8+A4+0B	6AG1193-6BP20-2BF0

BA – Bus Adapter

• SIPLUS ET 200SP BA 2xRJ45	6AG1193-6AR00-7AA0

HMI – Human Maschine Interface

• SIPLUS HMI TP1900 Comfort	6AG1124-0UC02-4AX1
• SIPLUS HMI MTP1200 Unified Comfort	6AG1128-3MB06-4AX1

Application/Limitation

Location class Temperature B:

- SIPLUS S7-1500 PS 1505 25W 24VDC 6AG1505-0KA00-7AB0
- SIPLUS S7-1500 PS 1507 60W 230VAC 6AG1507-0RA00-7AB0
- SIPLUS S7-1500 act. backpl. 4 slot RAIL 6AG2590-0BD00-4AA0
- SIPLUS S7-1500 CPU 1518HF-4 PN 6AG1518-4JP00-4AB0
- SIPLUS S7-1500 CPU 1517H-3 PN 6AG1517-3HP00-4AB0
- SIPLUS ET 200SP F-DI 4/8x24VDC HF 6AG1136-6BA01-2CA0
- SIPLUS ET 200SP F-DQ 8x24VDC/0.5A PP HF 6AG1136-6DC00-2CA0
- SIPLUS ET 200SP F-DQ 4x24VDC/2A PM HF 6AG1136-6DB00-2CA0
- SIPLUS ET 200SP F-RQ 24VDC/24-230VAC/5A 6AG1136-6RA00-2BF0
- SIPLUS ET 200SP F-AI 4xI 2-/4-wire HF 6AG1136-6AA00-2CA1
- SIPLUS ET 200SP F-AI 4xU 0..10V HF 6AG1136-6AB00-2CA1
- SIPLUS HMI TP1900 Comfort 6AG1124-0UC02-4AX1
- SIPLUS HMI MTP1200 Unified Comfort 6AG1128-3MB06-4AX1

Location class EMC B:

- The power supply lines are to be protected by filter type B84113C **except** SIPLUS HMI TP1900 Comfort (6AG1124-0UC02-4AX1) and SIPLUS HMI MTP1200 Unified Comfort (6AG1128-3MB06-4AX1)

Type Approval documentation

Test Reports: 25-E010607-BE-A01 List of Test Reports
Documents: 25-E010607-BE-B01 List of Technical datasheets equipment manuals

Tests carried out

Applicable tests according to class guideline DNV-CG-0339, August 2021

Marking of product

The products to be marked with:

- Model name
- Manufacturer name
- Serial number
- Supply voltage.

Manufactured by

Siemens Aktiengesellschaft, Breslauer Straße 5, 90766 Fürth

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials.
The main elements of the assessment are:

- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer’s product type marking and the type approval certificate

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE