Certificate no.:
TAA00003CY

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Peripheral Equipment

with type designation(s)
SIMATIC IPC BX-39A; SIMATIC IPC PX-39A; SIMATIC IPC PX-39A PRO

issued to
Siemens AG - Digital Industries - Process Automation
Karlsruhe, Baden-Württemberg, 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	**A*/D**
Humidity	**B**
Vibration	**A**
EMC	**B**
Enclosure	**IPC BX-39A IP20; IPC PX-39A IP65 (front) IP20 (rear); IPC PX-39A PRO IP65**

*** see Application/Limitation**

Issued at **Hamburg** on **2024-01-18**
This Certificate is valid until **2029-01-17**.
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 300,000 USD.

Product description

The SIMATIC IPC BX-39A (Box PC)

Nomenclature	Position								
6AG4 1 4 2 -	8	9	10	11	12	13	14	15	16

Position	Characteristic	Characteristic value	Description
8	Processor	1 3 5 7	Intel Celeron 6600HLE (2,1 GHz, 2C/2T) Intel Xeon W-11155MLE (1,8/3,1 GHz, 4C/8T) Intel Xeon W-11555MLE (1,9/4,4 GHz, 6C/12T) Intel Xeon W-11865MLE (1,5/4,5 GHz, 8C/16T)
9	Mounting	A C G K	without mounting material Wall-mount 1 x PCIe and Wall-mount 2 x PCIe and Wall-mount
10	RAM	A B C D E F	4GB 8GB 16GB 32GB 16GB with ECC 32GB with ECC
11	Drive 1 in Simatic IPC Slider (incl. OS)	0 1 2 8	without 1st mass-storage M.2 SSD 256 GB Eco M.2 SSD 512 GB Eco RAID1 2x SSD 512 GB Eco
12	Drive 2 in Simatic IPC Slider	0 1 2	without 2nd mass-storage M.2 SSD 256 GB Eco M.2 SSD 512 GB Eco
13	Software configuration	*	*Not relevant for this certificate
14	Option 1	A B	without Option 1 additiv 1 x Com (RS232/485/422)
15	Option 2	A B	without USB-Stick (Restore-Image; D&D) with USB-Stick (Restore-Image; D&D)
16	Power Supply	0	24V DC Industry-power supply (Premium, NAU, isolated,"Überbrückungszeit")

SIMATIC IPC PX-39A (Panel PC)

Nomenclature 6AV7 2 4 2 -	Position								
	8	9	10	11	12	13	14	15	16

Position	Characteristic	Characteristic value	Description
8	Processor	1 3 5 7	Intel Celeron 6600HLE (2,1 GHz, 2C/2T) Intel Xeon W-11155MLE (1,8/3,1 GHz, 4C/8T) Intel Xeon W-11555MLE (1,9/4,4 GHz, 6C/12T) Intel Xeon W-11865MLE (1,5/4,5 GHz, 8C/16T)
9	Front Panel	A B C D L M N P	15" Multi-Touch (1920 x 1080) 19" Multi-Touch (1920 x 1080) 22" Multi-Touch (1920 x 1080) 24" Multi-Touch (1920 x 1080) 15" Multi-Touch Neutral (1920 x 1080) 19" Multi-Touch Neutral (1920 x 1080) 22" Multi-Touch Neutral (1920 x 1080) 24" Multi-Touch Neutral (1920 x 1080)
10	RAM	A B C D E F	4GB 8GB 16GB 32GB 16GB with ECC 32GB with ECC
11	Drive 1 in Simatic IPC Slider (incl. OS)	0 1 2 8	without 1st mass-storage M.2 SSD 256 GB Eco M.2 SSD 512 GB Eco RAID1 2x SSD 512 GB Eco
12	Drive 2 in Simatic IPC Slider	0 1 2	without 2nd mass-storage M.2 SSD 256 GB Eco M.2 SSD 512 GB Eco
13	Software configuration	*	*Not relevant for this certificate
14	Option 1	A B C D	without Option 1 with 1 x PCIe-Slot with 1 x Com (RS232/485/422) with 1 x PCIe-Slot and 1 x Com (RS232/485/422)
15	Option 2	A B	without USB-Stick (Restore-Image; D&D) with USB-Stick (Restore-Image; D&D)
16	Power Supply	0	24V DC Industry-power supply (Premium, NAU, isolated,"Überbrückungszeit")

The SIMATIC IPC PX-39A PRO (Panel PC)

Nomenclature 6AV7 2 5 2 -	Position								
	8	9	10	11	12	13	14	15	16

Position	Characteristic	Characteristic value	Description
8	Processor	1 3 5 7	Intel Celeron 6600HLE (2,1 GHz, 2C/2T) Intel Xeon W-11155MLE (1,8/3,1 GHz, 4C/8T) Intel Xeon W-11555MLE (1,9/4,4 GHz, 6C/12T) Intel Xeon W-11865MLE (1,5/4,5 GHz, 8C/16T)
9	Front Panel	A C E G K M P R	15" Multi-Touch (1920 x 1080) 19" Multi-Touch (1920 x 1080) 22" Multi-Touch (1920 x 1080) 24" Multi-Touch (1920 x 1080) 15" Multi-Touch Neutral (1920 x 1080) 19" Multi-Touch Neutral (1920 x 1080) 22" Multi-Touch Neutral (1920 x 1080) 24" Multi-Touch Neutral (1920 x 1080)
10	RAM	A B C D E F	4GB 8GB 16GB 32GB 16GB with ECC 32GB with ECC
11	Drive 1	0 1 2	without 1st mass-storage M.2 SSD 256 GB Eco M.2 SSD 512 GB Eco
12	Drive 2 in Simatic IPC Slider (only with OS, if Drive 1 is unused) / Com	0 1 2 3	without 2nd mass-storage M.2 SSD 256 GB Eco M.2 SSD 512 GB Eco 1 x Com (RS232/485/422)
13	Software configuration	*	*Not relevant for this certificate
14	Option 1	A B C	pedestal mounting (expandable, flange below) support arm (expandable, round tube) support arm (not expandable, flange above)
15	Option 2	A B	without USB-Stick (Restore-Image; D&D) with USB-Stick (Restore-Image; D&D)
16	Power Supply	0	24V DC Industry-power supply (Premium, NAU, isolated,"Überbrückungszeit")

Application/Limitation
Location Class Temperature A: SIMATIC IPC PX-39A PRO (Panel PC)

Approval Conditions
The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV, documentation for the actual application is to be submitted for approval by the manufacturer of the application system in each case. Reference is made to DNV Rules for Ships Pt.4 Ch.9 Control and Monitoring Systems. If the control system is intended for remote software maintenance the functionality shall be part of the system documentation as required in DNV Rules for Ships Pt.4 Ch.9 Control and Monitoring Systems.

Type Approval documentation
Test Reports: 24-E009989-BM-B01 List of Test Reports
24-E009989-BM-C02 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
- power consumption and/or supply voltage.

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