



Marine & Offshore

Certificate number: 15707/D0 BV

File number: AP 3734

Product code: 4483H

*This certificate is not valid when presented without the full attached schedule composed of 7 sections*

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## TYPE APPROVAL CERTIFICATE

*This certificate is issued to*

**Siemens Industrial Automation Products Ltd., Chengdu**  
Chengdu City - CHINA

*for the type of product*

**DISPLAY MONITORS / VIDEO SCREENS / TERMINALS**

SIMATIC HMI

Basic Panels KP/KTP

**Requirements:**

Bureau Veritas Rules for the Classification of Steel Ships

EC Code: 31

*This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.*

**This certificate will expire on: 13 Nov 2026**

**For Bureau Veritas Marine & Offshore,**

At BV SHANGHAI, on 13 Nov 2021,

Jennifer Zhang



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

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BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

## THE SCHEDULE OF APPROVAL

### 1. PRODUCT DESCRIPTION:

SIMATIC HMI devices **KP/KTP** comprises the following Basic Panels:

| Panel Type       | Reference | LCD Type | Screen Size | Resolution | Color              | Key | Touch |
|------------------|-----------|----------|-------------|------------|--------------------|-----|-------|
| KP300 PN Basic   | 6AV6 647- | FSTN     | 3.0"        | 240x80     | 4 Backlight colors | X   | -     |
| KTP400 PN Basic  | 6AV6 647- | FSTN     | 3.8"        | 320x240    | 4 Grayscale        | X   | X     |
| KTP400 PN Basic  | 6AV2 123- | TFT      | 4.3"        | 480x272    | 65k Colors         | -   | X     |
| KTP700 PN Basic  | 6AV2 123- | TFT      | 7.0"        | 800x480    | 65k Colors         | -   | X     |
| KTP700 DP Basic  | 6AV2 123- | TFT      | 7.0"        | 800x480    | 65k Colors         | -   | X     |
| KTP900 PN Basic  | 6AV2 123- | TFT      | 9.0"        | 800x480    | 65k Colors         | -   | X     |
| KTP1200 PN Basic | 6AV2 123- | TFT      | 12"         | 1280x800   | 65k Colors         | -   | X     |
| KTP1200 DP Basic | 6AV2 123- | TFT      | 12"         | 1280x800   | 65k Colors         | -   | X     |

### **Main characteristics:**

Power Supply: 24V DC  
Degree of protection: IP65 (front); IP20 (rear)  
Operating System: Windows CE 3.0 or higher

### 2. DOCUMENTS AND DRAWINGS:

- A5E02421799-02 Edition 12/2010;

Note: Documents filed in AP3734.

- A5E33293231-AA dated 03/2014

For D0 version:

- SIMATIC HMI, A5E33293231-AD dated 05/2021

### 3. TEST REPORTS:

- Report I IA AS RD ST Type Test-09/08 dated 26.11.2008; Report I IA AS RD ST Type Test-08/09 dated 22.07.2009

- Report I IA AS RD ST Type Test-2011-05 dated 26.03.2012

Note: Documents filed in AP3734 & AP3040.

- SIMATIC Type Test-2014-03 dated 2015-03-31

For D0 version:

- Chengdu Sanfang Electrical: 2018106-E dated 2018-08-30; 2018107-E dated 2018-08-30; 2018112-E dated 2018-08-30;  
2019090-E dated 2019-11-19; 2019092-E dated 2019-11-19; 2019145-E dated 2019-12-17; 2019146-E dated 2019-12-17

### 4. APPLICATION / LIMITATION:

4.1 - Bureau Veritas Rules and Regulations for the Classification of Steel Ships

4.2 - Approval valid for ships intended to be granted with the following additional class notations: **AUT-UMS, AUT-CCS, AUT-PORT and AUT-IMS.**

4.3 - Bureau Veritas Environmental Category, **EC Code: 31**

4.4 - SIMATIC Panel System fulfills the EMC requirements for installation on the Bridge and Deck Zone **with appropriate filter and/or protection.**

- **A filter is to be fitted in the power supply lines having the following rating:**

**I=3A, C=2x0.47µF, C=2x4700pF, L=4x4.7mH (except for KP300).**

- **24V power supply lines are to be protected by Dehn Blitzductor order No. 918 402 or 918 422 or equivalent.**

- **KP300: Ethernet connection is to be protected by Dehnpatch order No. 929 121.**

- **KP300: In power supply line a choke is to be fitted manufactured by Würth order No. 744821120.**

4.5 - Equipment covered by this Type Approval certificate has been tested according to requirements of IACS UR E10 rev7.

4.6 - Only Hardware and Firmware successfully tested together in compliance with the regulations as referred to in page one, according to the declaration of the manufacturer is covered by this certificate.

4.7 - In accordance with IACS UR E22 and as applicable to programmable devices for computer based systems of Category II or III, for each ship application:

- Ship specific documentation is to be submitted including software documentation and categorization of the computer based system.

- Inspection and testing before installation onboard is to be performed under the surveillance of the Society.

4.8 - The minimum safe distance at which the equipment may be mounted from a standard or a steering magnetic compass is not to be less than 5 m.

**5. PRODUCTION SURVEY REQUIREMENTS:**

5.1 - The above mentioned products are to be supplied by **Siemens Industrial Automation Products Ltd., Chengdu** in compliance with the type described in this certificate.

5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320 and as such does not require a BV product certificate.

5.3 - **Siemens Industrial Automation Products Ltd., Chengdu** has to make the necessary arrangements to have its works recognized by Bureau Veritas in compliance with the requirements of NR320 for HBV products:

**Siemens Industrial Automation Products Ltd.**  
**No. 99, Tian Yuan Road**  
**Sichuan Province**  
**611731 Chengdu City**  
**CHINA**

For KP300 Panel  
**Siemens AG**  
**Breslauer Strasse 5**  
**90766 Fürth**  
**Germany**

**6. MARKING OF PRODUCT:**

- Maker's name or trademark
- Equipment type or model identification
- Date of manufacture and/or serial number

**7. OTHERS:**

7.1 - It is the responsibility of **Siemens Industrial Automation Products Ltd., Chengdu** to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

7.2 - This certificate supersedes the Type Approval Certificate N° 15707/C1 BV issued on 14 Jan 2019 by the Society.

\*\*\* END OF CERTIFICATE \*\*\*