



中国船级社  
CHINA CLASSIFICATION SOCIETY

证书编号/Certificate No.  
HB20PTB00004\_09

型式认可证书  
CERTIFICATE OF TYPE APPROVAL

兹证明本证书所述制造厂具备按照下列标准的要求生产本证书所列产品的能力和条件。

This is to certify that the manufacturer stated in the certificate meets the requirements of the standards listed below and is available with the ability and conditions to produce the products described in the certificate.

制造厂/Manufacturer

Siemens AG, SIMATIC Type Test

地址/Address

Werner-von-Siemens-Str. 50, D-92224 Amberg, Germany

产品名称/Product

Operator Panels for Programmable Logic Controller  
Operator Panels for Programmable Logic Controller  
可编程逻辑控制器  
Programmable Logic Controller

认可标准/Approval Standard

1. 中国船级社《钢质海船入级规范》(2018)及其修改通报第7篇第1、2章  
Chapter 1 and 2, Part Seven of China Classification Society "Rules for Classification of Sea-Going Steel Ships" (2018) and its Amendments

用于/Intended for

船舶与海上设施/Ships and Offshore Installations

产品明细/Product Description

可编程逻辑控制器/Programmable Logic Controller (M0001)

名称/Name	属性(值)/Value	单位/Unit
产品名称/Product Name	Operator Panels for Programmable Logic Controller	
型号/Type	详见附页/See additional page(s)	
电源/Power Source	DC24V	

证书有效期至/This Certificate is valid until 2023年11月22日/ Nov. 22, 2023

发证机构 中国船级社汉堡分社

Issued by CCS Hamburg Branch

签发日期 2020年02月07日

Date Feb. 07, 2020

本证书根据中国船级社规范和相关规定签发。所有证书页为一个整体，必须同时使用。纸质证书每页均须由本社盖章方为有效，电子证书含数字签名方为有效，本证书复印件无效。任何单位和个人均不应摘录或节选本证书的部分内容。有关方对所持证书的真实性有疑问时，可以向我社检验机构咨询。This Certificate is issued pursuant to the Rules of the Society and related regulation. All pages of the certificate are taken as a whole and are used simultaneously. No paper certificate page is valid without bearing the stamp of the Society, no electronic certificates is valid without the digital signature, and no copied form of the certificate is regarded as valid. Any part of the certificate is not to be extracted or abridged by any unit or individual in any form. Related parties who are doubted about the authenticity of the certificate may inquire of the Society or its offices.

Form No: T01.

联系方式/Contact Us, 见本社官方网站/See official web site of the Society (<http://www.ccs.org.cn>)



UTN:P020-65301728



**批准的图纸/Approved Drawings**

图纸批准号/ Drawings Approval No. : HB16A00026

**产品认可试验报告/ Approval Test Report**

试验报告编号/ Test Report No. : SIMATIC Type Test-2015-03  
 试验报告日期/ Test Report Date : 2015-08-15  
 试验单位/ Laboratory: Siemens Marine Engineering  
 试验单位地址/ Test Address: Werner-von-Siemens-Str. 50,D-92224 Amberg, Germany

试验报告编号/ Test Report No. : SIMATIC Type Test-2014-03  
 试验报告日期/ Test Report Date : 2015-03-31  
 试验单位/ Laboratory: Siemens Marine Engineering  
 试验单位地址/ Test Address: Werner-von-Siemens-Str. 50,D-92224 Amberg, Germany

试验报告编号/ Test Report No. : I IA AS RD ST Type test 08/09  
 试验报告日期/ Test Report Date : 2009-08-01  
 试验单位/ Laboratory: Siemens Marine Engineering  
 试验单位地址/ Test Address: Werner-von-Siemens-Str. 50,D-92224 Amberg, Germany

试验报告编号/ Test Report No. : I IA AS RD ST Type test 09/08  
 试验报告日期/ Test Report Date : 2008-09-01  
 试验单位/ Laboratory: Siemens Marine Engineering  
 试验单位地址/ Test Address: Werner-von-Siemens-Str. 50,D-92224 Amberg, Germany

试验报告编号/ Test Report No. : AD AS RD423-0301  
 试验报告日期/ Test Report Date : 1997-04-09  
 试验单位/ Laboratory: Siemens Marine Engineering  
 试验单位地址/ Test Address: Siemens AD AS E423 Amberg

试验报告编号/ Test Report No. : AD AS ATS 6/03-M558  
 试验报告日期/ Test Report Date : 1997-04-09  
 试验单位/ Laboratory: Siemens Marine Engineering  
 试验单位地址/ Test Address: Siemens AD AS E423 Amberg

试验报告编号/ Test Report No. : AD AS RD ST TYPE TEST 11/04  
 试验报告日期/ Test Report Date : 1997-04-09  
 试验单位/ Laboratory: Siemens Marine Engineering  
 试验单位地址/ Test Address: Siemens AD AS E423 Amberg

试验报告编号/ Test Report No. : AD AS ATS 6/05-M0601717, 18, 19, 20-A1  
 试验报告日期/ Test Report Date : 1997-04-09  
 试验单位/ Laboratory: Siemens Marine Engineering  
 试验单位地址/ Test Address: Siemens AD AS E423 Amberg

试验报告编号/ Test Report No. : AD AS RD ST TYPE TEST-0606  
 试验报告日期/ Test Report Date : 1997-04-09  
 试验单位/ Laboratory: Siemens Marine Engineering  
 试验单位地址/ Test Address: Siemens AG, I IA AS RD ST Type Test, Amberg

**认可后的产品检验方式/ Method of Product Inspection after Approval**

按规范只认可不进行产品检验的产品/The product approved only in term of the rules:

认可后的产品检验由制造厂按本社批准的产品检验计划进行检验, 经检验合格后由制造厂签发合格证明, 并连同该产品的本社认可证书复印件一并交付用户, 制造厂对产品符合公约、法规、本社规范和本社认可的标准规定负责。After approval, product inspection should be carried out by the Manufacturer in accordance with the product inspection scheme approved by the Society. Upon satisfactory inspection, and the Quality Certificate issued by the Manufacturer should be provided to the purchaser together with the copy of the approval certificate issued by the Society. The manufacturer should take responsibility for the product being in compliance with the convention, statutory regulation, the Society rules and the standard accepted by the Society.

**认可保持条件/ Maintenance Requirements of Approval**



1. 型式认可后, 如果产品及其重要零部件的设计、所用材料或制造方法有所改变, 且影响到产品的主要特性、特征; 或产品的性能指标有所更改, 且超过认可的范围, 则有关图纸和文件应经检验机构审批。并在检验机构认为必要时, 经本社检验人员见证有关试验和进行检查, 其结果应能证实仍符合认可条件。

After type approval, if there are changes to the design, materials used or manufacturing method of the product and important components and such changes affect major characteristics and properties of the product, or property indexes of the product are changed and exceed the scope of approval, related drawings and documents are to be examined and approved by the concerned survey office. Where deemed necessary by the survey office, the surveyor to the Society will go to witness relevant tests and conduct inspection and the results should be able to demonstrate compliance with the approval conditions.

2. 工厂的质量管理体系应保持有效运行, 并且与认可时一致。如果质量管理体系发生改变, 应经原体系认证机构审核并报本社批准。

The quality management system of the factory shall be ensure effective operation, and shall be the same as the situation of approval. If there are any changes to the quality management system, auditing of the original certification organization for quality management system and the society's approval shall be obtained.

3. 认可证书有效期内, 如果出现可能导致本社取消认可的情况, 工厂应及时采取有效的纠正措施。

Within the validity of the approval certificate, if cases occur that may cause the Society to withdraw the approval, the manufacturer should take corrective actions in a prompt and effective manner.

4. 在认可证书有效期内, 本社检验人员可在未经事先通知的情况下对工厂的产品制造过程进行审核, 以验证产品的生产是否符合业经本社批准的图纸和文件。工厂应予以配合。

Within the validity of the approval certificate, the surveyor to the Society may pay unannounced audit to the manufacturing process of the product in order to confirm whether it is in compliance with the drawings and documents approved by the Society. The factory should provide an active cooperation and necessary for the surveyor.

5. 如果属于获得型式认可B 模式证书, 且无需颁发船用产品证书/等效证明文件的情况, 证书获得者应接受本社每年一次的定期审核, 定期审核日为认可证书期满之日对应的每一周年日, 检查工作应在周年日的前后三个月内进行。

If belong to the situation of the product has type approval mode B certificate, and marine product certificate/equivalent document is not necessary, those who have obtained the certificate should be subject to periodical audit every year. The date of periodical audit shall be each anniversary date which corresponds to the date of expiry of the relevant certificate and the periodical audit shall be done within a time span of three months before and after the annual surveillance date.

## 备注/Remarks

1. 本证书由原型式认可证书 (No. HB16TQ0003\_01) 变更并换新。

This certificate is modified and renewed from the previous Type Approval Certificate No. HB16TQ0003\_01.

2. 本社已审核了产品厂无石棉声明, 但本社的审核不免除产品厂按照合同关系向订货方保证产品无石棉的责任。

The declaration of asbestos-free submitted by manufacturer has been reviewed by the Society. However, liability of the manufacturer to guarantee the products are asbestos-free to purchaser under contract will not be exempted.

3. Approval Condition:

(1) SIMATIC Panel System fulfills the EMC requirements for installation on the Bridge and Deck Zone with appropriate filter and / or protection.

(2) A filter is to be fitted in the power supply lines having the following rating:

$I = 3A$ ,  $C = 2 \times 0.47\mu F$ ,  $C = 2 \times 4700pF$ ,  $L = 4 \times 4.7mH$  - manufactured by Epcos or equivalent.

(3) TP 170 is to be fitted with filter Corcom 3 EQ1 or equivalent.

(4) MP 370 are only to be used with EMC Protection manufactured by Bartec:

- MP 370 Key 12": MP 370-12K 05-0042-0016

- MP 370 Touch 12": MP 370-12T 05-0042-0015

- MP 370 Touch 15": MP 370-15T 05-0042-0017

(5) KP300 Basic. In power supply line a choke is to be fitted manufactured by Wuerth order No. 744821120 or equivalent.

4. Manufacturer:

(1) SIEMENS AG, Elektronikwerk. Address: Werner-von-Siemens-Strasse 50, 92224 Amberg, Germany.

(2) Siemens Industrial Automation Products Ltd Chengdu. Address: Tian Yuan Road No. 99, West Hi-Tech Zone, Chengdu, Sichuan, China.

5. The degree of protection of enclosure should meet the application requirements of the site.

中国船级社汉堡分社  
CCS Hamburg Branch

注: 本证书含有附页, 共2页

Note: The certificate is attached with additional 2 page(s)

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Nº 18856390





## Products description

### SIMATIC Basic Panels

KP300 PN Basic	6AV6 647..
KTP400 PN Basic	6AV6 647..
KTP400 PN Basic	6AV2 123..
KTP600 PN Basic	6AV6 647..
KTP600 DP Basic	6AV6 647..
KTP600 PN Basic	6AV6 647..
KTP700 PN Basic	6AV2 123..
KTP700 DP Basic	6AV2 123..
KTP900 PN Basic	6AV2 123..
KTP1000 PN Basic	6AV6 647..
KTP1000 DP Basic	6AV6 647..
KTP1200 PN Basic	6AV2 123..
KTP1200 DP Basic	6AV2 123..

### SIMATIC Panel System (OP/TP/MP) Comprising the following modules:

OP73 micro	6AV6 640
OP73	6AV6 641
OP77A	6AV6 641
OP77B	6AV6 641
TP177A	6AV6 642
TP177 micro-6	6AV6 640
TP170A	6AV6 545
TP170B Mono	6AV6 545
TP170B Color	6AV6 545
TP170B DP	6AV6 642
TP177B PN/DP	6AV6 642
OP177B DP	6AV6 642
OP177B PN/DP	6AV6 642
OP270 Key-6 CSTN	6AV6 542
TP270 Touch-6 CSTN	6AV6 545
OP277-6"	6AV6 643
TP277-6"	6AV6 643
MP270B Key-6 TFT	6AV6 542
MP270B Touch-6 TFT	6AV6 545
MP277T-8"	6AV6 643
MP277K-8"	6AV6 643
OP270 Key-10 CSTN	6AV6 542
TP270 Touch-10 CSTN	6AV6 545
MP270B Key-10TFT	6AV6 542
MP270B Touch-10TFT	6AV6 545
MP277 T-10"	6AV6 643
MP277 K-10"	6AV6 643
MP370 Key-12"	6AV6 542
MP370 Touch-12"	6AV6 545
MP370 Touch-15"	6AV6 545
TP177B-4"	6AV6 642
MP177 Touch-6"	6AV6 642
KTP 400 Mono PN	6AV6 647
KTP 600 Mono PN	6AV6 647



KTP 600 Color DP      6AV6 647  
KTP 600 Color PN      6AV6 647

**Power supply: 24V DC****Application/limitation:**

The Panels fulfils the EMC requirements for installation on the Bridge and Deck Zone:

A filter is to be fitted in the power supply lines Epcos type B84113-C-B30 (tested) having the following rating:  
 $I=3A$ ,  $C=2 \times 0.47\mu F$ ,  $C=2 \times 4700pF$ ,  $L=4 \times 4.7mH$  or equivalent.

TP 170 to be fitted with filter Corcom 3EQ1 or equivalent.

MP 370 only to be used with EMC Protection manufactured by Bartec

(MP 370 Key 12" : MP 370-12K 05-0042-0016,

MP 370 Touch 12" : MP 370-12T 05-0042-0015,

MP 370 Touch 15" : MP 370-15T 05-0042-0017).

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

KP8: In power supply line and signal line a choke is to be fitted manufactured by Würth order No. 742 716 22 (tested) or equivalent.

Surge Immunity: External Protective circuits required for DC systems. See the current System Manual (A5E03461486) for recommendations.

Installation of the units, as per manufacturer's instructions.

