



中国船级社  
CHINA CLASSIFICATION SOCIETY

证书编号/Certificate No.  
JS24PTB00168\_01

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

苏州伟创海洋工程有限公司  
Suzhou Veichi Offshore Engineering Co., Ltd.

地址/Address

江苏省常熟市碧溪街道通江路305号  
No.305 Tongjiang Road, Bixi Street, Changshu City, Jiangsu Province

产品名称/Product

变频器  
Frequency Converter

认可标准/Approval Standard

1. 中国船级社《钢质海船入级规范》（2023）及其变更通告 第4篇第1、2、3章  
Chapter 1,2,3, Part Four of China Classification Society Rules for the Classification of Sea-going Steel Ships 2023 and its Change Notices

用于/Intended for

船舶/Ships

产品明细/Product Description

变频器/Frequency Converter (M0001)

名称/Name	属性(值)/Value	单位/Unit
型号/Type	AC310系列/AC310 Series	
频率/Frequency	详见附页/See additional page(s)	
外壳防护等级/Degree of Protection of Enclosure	IP20	
额定输入电压/Rated Input Voltage	详见附页/See additional page(s)	
额定电流/Rated Current	详见附页/See additional page(s)	
额定输出功率/Rated Output Power	详见附页/See additional page(s)	

证书有效期至/This Certificate is valid until 2029年06月07日/ Jun. 07,2029

发证机构/Issued by 中国船级社江苏分社  
CCS Jiangsu Branch

签发日期/Date 2024年06月08日  
Jun. 08,2024

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，可以向本社检验机构咨询。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:P024-33509194

## 批准的图纸/Approved Drawings

图纸批准号/ Drawings Approval No. : NP24PPP00489

## 产品认可试验报告/ Approval Test Report

试验报告编号/ Test Report No. : 2024WT0705-1

试验报告日期/ Test Report Date : 2024-04-25

试验报告编号/ Test Report No. : 2024WT0705-2

试验报告日期/ Test Report Date : 2024-04-25

试验报告编号/ Test Report No. : 2024CS001-1

试验报告日期/ Test Report Date : 2024-05-23

试验报告编号/ Test Report No. : 2024XS002-1

试验报告日期/ Test Report Date : 2024-05-23

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

按规范认可后应进行产品检验的产品/The product should be inspected in term of the rules:  
认可后的产品检验应由本社验船师根据本社规范规定按批准的产品检验计划进行检验, 经检验合格后由本社颁发船用产品证书。

After approval, product inspection should be carried out by the Surveyor of the Society in accordance with the approved product inspection scheme, and the Marine Product Certificate will be issued by the Society upon satisfactory inspection.

## 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.
2. 产品不能用于以蓄电池作为部分或全部动力源船舶的动力系统（含电池系统、配电系统和推进系统）。  
The product cannot be used in the power system of Ship with battery as part or whole power source (including battery system, distribution system and propulsion system).
3. 产品不得安装在开敞甲板。  
Products shall not be installed on an open deck.

**中国船级社江苏分社**  
**CCS Jiangsu Branch**

注：本证书含有附页，共3页  
Note: The certificate is attached with additional 3 page(s)

名称 Product	系列 Serial	型号 Type	结构 Frame	额定输入交流电压 AC Input Voltage	轻载应用 Light-duty Use		重载应用 Heavy-duty Use	
				$U_n/V$	$I_{Ld}/A$	$P_{Ld}/kW$	$I_{Hd}/A$	$P_{Hd}/kW$
变频器 Frequency Converter	AC310	AC310-S2-R75G-PRO	V1	单相 200~240	-	-	4	0.75
		AC310-S2-1R5G-PRO		单相 200~240	-	-	7	1.5
		AC310-T2-R75G-PRO		三相 200~240	-	-	4	0.75
		AC310-T2-1R5G-PRO		三相 200~240	-	-	7	1.5
		AC310-T3-R75G-PRO		三相 380~480	4	1.5	3	0.75
		AC310-T3-1R5G-PRO		三相 380~480	6	2.2	4	1.5
		AC310-T3-2R2G-PRO		三相 380~480	-	-	6	2.2
		AC310-S2-2R2G-PRO	V2	单相 200~240	-	-	10	2.2
		AC310-S2-004G-PRO		单相 200~240	-	-	16	4
		AC310-T2-2R2G-PRO		三相 200~240	-	-	10	2.2
		AC310-T2-004G-PRO		三相 200~240	-	-	16	4
		AC310-T3-004G-PRO		三相 380~480	13	5.5	10	4
		AC310-T3-5R5G-PRO		三相 380~480	17	7.5	13	5.5
		AC310-S2-5R5G-PRO		V3	单相 200~240	-	-	20
		AC310-T2-5R5G-PRO	三相 200~240		-	-	20	5.5
		AC310-T3-7R5G-PRO	三相 380~480		25	11	17	7.5
		AC310-T3-011G-PRO	三相 380~480		32	15	25	11
		AC310-S2-7R5G-PRO	V4	单相 200~240	-	-	30	7.5
		AC310-S2-011G-PRO		单相 200~240	-	-	42	11
		AC310-T2-7R5G-PRO		三相 200~240	-	-	30	7.5
		AC310-T2-011G-PRO		三相 200~240	-	-	42	11
		AC310-T3-015G-PRO		三相 380~480	38	18	32	15
		AC310-T3-018G-PRO		三相 380~480	45	22	38	18
		AC310-T3-022G-PRO		三相 380~480	60	30	45	22
		AC310-S2-015G-PRO	V5	单相 200~240	-	-	55	15
		AC310-T2-015G-PRO		三相 200~240	-	-	55	15
AC310-T2-018G-PRO	三相 200~240	-		-	70	18		
AC310-T2-022G-PRO	三相 200~240	-		-	80	22		

		AC310-T3-030G-PRO		三相 380~480	75	37	60	30
		AC310-T3-037G-PRO		三相 380~480	90	45	75	37
		AC310-T6-022G-PRO	V6A	三相 660~690	35	30	28	22
		AC310-T6-030G-PRO		三相 660~690	45	37	35	30
		AC310-T6-037G-PRO		三相 660~690	52	45	45	37
		AC310-T2-030G-PRO	V6B	三相 200~240	-	-	110	30
		AC310-T2-037G-PRO		三相 200~240	-	-	130	37
		AC310-T2-045G-PRO		三相 200~240	-	-	160	45
		AC310-T3-045G-PRO		三相 380~480	110	55	90	45
		AC310-T3-055G-PRO		三相 380~480	150	75	110	55
		AC310-T3-075G-PRO		三相 380~480	180	90	150	75
		AC310-T6-045G-PRO		三相 660~690	63	55	52	45
		AC310-T6-055G-PRO		三相 660~690	86	75	63	55
		AC310-T6-075G-PRO		三相 660~690	98	90	86	75
		AC310-T2-055G-PRO	V7	三相 200~240	-	-	200	55
		AC310-T3-090G-PRO		三相 380~480	210	110	180	90
		AC310-T3-110G-PRO		三相 380~480	250	132	210	110
		AC310-T6-090G-PRO		三相 660~690	121	110	98	90
		AC310-T6-110G-PRO		三相 660~690	150	132	121	110
		AC310-T3-132G-PRO	V8	三相 380~480	310	160	250	132
		AC310-T3-160G-PRO		三相 380~480	340	185	310	160
		AC310-T6-132G-PRO		三相 660~690	175	160	150	132
		AC310-T6-160G-PRO		三相 660~690	198	185	175	160
		AC310-T3-185G-PRO	V9	三相 380~480	380	200	340	185
		AC310-T3-200G-PRO		三相 380~480	415	220	380	200
		AC310-T3-220G-PRO		三相 380~480	470	250	415	220
		AC310-T6-185G-PRO		三相 660~690	218	200	198	185
		AC310-T6-200G-PRO		三相 660~690	235	220	218	200
		AC310-T6-220G-PRO		三相 660~690	270	250	235	220
		AC310-T3-250G-PRO	V10	三相 380~480	510	280	470	250
		AC310-T3-280G-PRO		三相 380~480	600	315	510	280

		AC310-T6-250G-PRO		三相 660~690	330	280	270	250	
		AC310-T6-280G-PRO		三相 660~690	345	315	330	280	
		AC310-T3-315G-PRO		V11	三相 380~480	670	355	600	315
		AC310-T3-355G-PRO	三相 380~480		750	400	670	355	
		AC310-T3-400G-PRO	三相 380~480		810	450	750	400	
		AC310-T6-315G-PRO	三相 660~690		380	355	345	315	
		AC310-T6-355G-PRO	三相 660~690		430	400	380	355	
		AC310-T6-400G-PRO	三相 660~690		466	450	430	400	
		AC310-T3-450G-PRO	V12		三相 380~480	860	500	810	450
		AC310-T3-500G-PRO			三相 380~480	990	560	860	500
		AC310-T3-560G-PRO		三相 380~480	1200	630	990	560	
		AC310-T6-450G-PRO		三相 660~690	540	500	466	450	
		AC310-T6-500G-PRO		三相 660~690	600	560	540	500	
		AC310-T6-560G-PRO		三相 660~690	690	630	600	560	

## 4. 扩展卡（配件）/Expansion card

名称 Product	系列 Serial	型号 Type	描述 Describe
扩展卡 Expansion card	AC310	AC300I01	端子扩展卡 Terminal expansion card
		AC300PG01	差分 PG 卡 Differential PG card
		AC300PN1	PROFINET 通信扩展卡。 PROFINET communication expansion card.
		AC300DP01	Profibus 通信扩展卡。 Profibus communication expansion card.