



中国船级社  
CHINA CLASSIFICATION SOCIETY

证书编号/Certificate No.  
QD24PTB00112

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.

品牌拥有方/ Licensor

Valiadis Hellenic Motors S.A.

授权制造企业/Authorized Manufacturer

山东华力电机集团股份有限公司

Shandong Huali Electric Motor Group Co.,Ltd.

山东省威海市荣成市荣昌路9号/山东省威海市荣成市富源南路89号

No.9 Rongchang Road, Rongcheng, Weihai, Shandong Province /No.89 Fuyuan South Road, Rongcheng, Weihai, Shandong Province

产品名称/Product

电动机  
Motor

认可标准/Approval Standard

1. 中国船级社《钢质海船入级规范》第4篇第3章

Chapter 3, Part Four of China Classification Society Rules for Classification of Sea-Going Steel Ships

用于/Intended for

船舶/Ships

产品明细/Product Description

电动机/Electric Motor (M0001)

名称/Name	属性(值)/Value	单位/Unit
型号/Type	见附页 See additional page(s)	
额定功率/Rated Power	见附页 See additional page(s)	kW
额定电压/Rated Voltage	见附页 See additional page(s)	V
额定电流/Rated Current	见附页 See additional page(s)	A
额定频率/Rated Frequency	见附页 See additional page(s)	Hz
额定转速/Rated Speed	见附页 See additional page(s)	r/min
绝缘等级/Insulation Class	见附页 See additional page(s)	
工作定额/Rating	见附页 See additional page(s)	
外壳防护等级/Degree of Protection	见附页 See additional page(s)	

证书有效期至/ This Certificate is valid until 2029年11月05日/ Nov. 05,2029

发证机构/ Issued by 中国船级社青岛分社  
CHINA CLASSIFICATION SOCIETY Branch

签发日期/ Date 2025年04月17日  
Apr. 17,2025

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。本证书凡是未注明版本的规范，其（发证时）最新版本适用于本证书。  
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. For Rules with no version indication, their latest version (at the time of issuance of the certificate) applies to the this certificate.



Form No: T02.

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:P025-02023414

## 批准的图纸/Approved Drawings

图纸批准号/ Drawings Approval No. : QD20PPP20190

## 产品认可试验报告/ Approval Test Report

试验报告编号/ Test Report No. : 20158

试验报告日期/ Test Report Date : 2020-11-04

## 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: (50kW以下电机/The motors rated below 50kW)

认可后的产品由制造厂检验合格后签发合格证明, 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. 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.

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: (50kW及以上电机/The motors rated at 50kW or above )

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. 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。

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.

6. 在本证书有效期内，品牌拥有方和产品制造企业之间的授权协议的失效将自动导致本证书的失效。  
During the period of validity, this certificate will automatically be ineffective in case of the invalidity of the authorization agreement between the licensor and the manufacturer(s).

#### 备注/Remarks

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.  
本证书由原型式认可证书（No. QD20PTB00083）换新并替代原证书。  
This certificate is renewed from and supersedes the previous Type Approval Certificate No. QD20PTB00083.

**中国船级社青岛分社**  
**CCS Qingdao Branch**

注：本证书含有附页，共5页

Note: The certificate is attached with additional 5 page(s)

## 产品明细/Product Description

产品型号 Type	额定电压 Rated voltage (400V)			额定电压 Rated voltage (480V)			绝缘等级 Insulation class	工作定额 Rating	外壳防护等级 Degree of protection
	额定频率 Rated frequency (50Hz)			额定频率 Rated frequency (60Hz)					
	额定电流 Rated current (A)	额定转速 Rated speed (r/min)	额定功率 Rated power (kW)	额定电流 Rated current (A)	额定转速 Rated speed (r/min)	额定功率 Rated power (kW)			
K80M1-2	1.8	2840	0.75	1.8	3408	0.9	F/H	S1	IP44/IP55/IP56
K80M2-2	2.5	2840	1.1	2.5	3408	1.32	F/H	S1	IP44/IP55/IP56
K90S-2	3.3	2850	1.5	3.3	3420	1.8	F/H	S1	IP44/IP55/IP56
K90L-2	4.7	2850	2.2	4.7	3420	2.64	F/H	S1	IP44/IP55/IP56
K100L-2	6.1	2880	3	6.1	3456	3.6	F/H	S1	IP44/IP55/IP56
K112M-2	7.9	2880	4	7.9	3456	4.8	F/H	S1	IP44/IP55/IP56
K132S1-2	10.7	2900	5.5	10.7	3480	6.6	F/H	S1	IP44/IP55/IP56
K132S2-2	14.3	2900	7.5	14.3	3480	9	F/H	S1	IP44/IP55/IP56
K160M1-2	20.4	2930	11	20.4	3516	13.2	F/H	S1	IP44/IP55/IP56
K160M2-2	27.4	2930	15	27.4	3516	18	F/H	S1	IP44/IP55/IP56
K160L-2	33.2	2930	18.5	33.2	3516	22.2	F/H	S1	IP44/IP55/IP56
K180M-2	39.2	2940	22	39.2	3528	26.4	F/H	S1	IP44/IP55/IP56
K200L1-2	53.0	2950	30	53.0	3540	36	F/H	S1	IP44/IP55/IP56
K200L2-2	65.1	2950	37	65.1	3540	44.4	F/H	S1	IP44/IP55/IP56
K225M-2	78.7	2970	45	78.7	3564	54	F/H	S1	IP44/IP55/IP56
K250M-2	95.8	2970	55	95.8	3564	66	F/H	S1	IP44/IP55/IP56
K280S-2	129.8	2970	75	129.8	3564	90	F/H	S1	IP44/IP55/IP56
K280M-2	153.5	2970	90	153.5	3564	108	F/H	S1	IP44/IP55/IP56
K315S-2	189.1	2980	110	189.1	3575	132	F/H	S1	IP44/IP55/IP56
K315M-2	226.4	2980	132	226.4	3575	158.4	F/H	S1	IP44/IP55/IP56
K315L1-2	270.6	2980	160	270.6	3575	192	F/H	S1	IP44/IP55/IP56
K315L2-2	337.5	2980	200	337.5	3575	240	F/H	S1	IP44/IP55/IP56
K355M1-2	371.2	2980	220	371.2	3575	264	F/H	S1	IP44/IP55/IP56
K355M2-2	421.9	2980	250	421.9	3575	300	F/H	S1	IP44/IP55/IP56
K355L1-2	472.5	2980	280	472.5	3575	336	F/H	S1	IP44/IP55/IP56
K355L2-2	531.5	2980	315	531.5	3575	378	F/H	S1	IP44/IP55/IP56

K355L-2	556.8	2980	330	556.8	3575	396	F/H	S1	IP44/IP55/IP56
K80M1-4	1.5	1390	0.55	1.5	1668	0.66	F/H	S1	IP44/IP55/IP56
K80M2-4	2.0	1390	0.75	2.0	1668	0.9	F/H	S1	IP44/IP55/IP56
K90S-4	2.7	1400	1.1	2.7	1680	1.32	F/H	S1	IP44/IP55/IP56
K90L-4	3.6	1400	1.5	3.6	1680	1.8	F/H	S1	IP44/IP55/IP56
K100L1-4	4.9	1420	2.2	4.9	1704	2.64	F/H	S1	IP44/IP55/IP56
K100L2-4	6.5	1420	3	6.5	1704	3.6	F/H	S1	IP44/IP55/IP56
K112M-4	8.5	1440	4	8.5	1728	4.8	F/H	S1	IP44/IP55/IP56
K132S-4	11.3	1440	5.5	11.3	1728	6.6	F/H	S1	IP44/IP55/IP56
K132M-4	15.0	1440	7.5	15.0	1728	9	F/H	S1	IP44/IP55/IP56
K160M-4	21.6	1460	11	21.6	1752	13.2	F/H	S1	IP44/IP55/IP56
K160L-4	28.7	1460	15	28.7	1752	18	F/H	S1	IP44/IP55/IP56
K180M-4	34.8	1470	18.5	34.8	1764	22.2	F/H	S1	IP44/IP55/IP56
K180L-4	41.1	1470	22	41.1	1764	26.4	F/H	S1	IP44/IP55/IP56
K200L-4	55.5	1470	30	55.5	1764	36	F/H	S1	IP44/IP55/IP56
K225S-4	67.3	1480	37	67.3	1776	44.4	F/H	S1	IP44/IP55/IP56
K225M-4	81.4	1480	45	81.4	1776	54	F/H	S1	IP44/IP55/IP56
K250M-4	99.1	1480	55	99.1	1776	66	F/H	S1	IP44/IP55/IP56
K280S-4	132.7	1480	75	132.7	1776	90	F/H	S1	IP44/IP55/IP56
K280M-4	158.7	1480	90	158.7	1776	108	F/H	S1	IP44/IP55/IP56
K315S-4	191.2	1485	110	191.2	1782	132	F/H	S1	IP44/IP55/IP56
K315M-4	229.0	1485	132	229.0	1782	158.4	F/H	S1	IP44/IP55/IP56
K315L1-4	273.6	1485	160	273.6	1782	192	F/H	S1	IP44/IP55/IP56
K315L2-4	341.2	1485	200	341.2	1782	240	F/H	S1	IP44/IP55/IP56
K355M1-4	375.4	1490	220	375.4	1785	264	F/H	S1	IP44/IP55/IP56
K355M2-4	426.5	1490	250	426.5	1785	300	F/H	S1	IP44/IP55/IP56
K355L1-4	477.7	1490	280	477.7	1785	336	F/H	S1	IP44/IP55/IP56
K355L2-4	537.4	1490	315	537.4	1785	378	F/H	S1	IP44/IP55/IP56
K355L-4	563.0	1490	330	563.0	1785	396	F/H	S1	IP44/IP55/IP56
K80M1-6	1.2	890	0.37	1.2	1068	0.444	F/H	S1	IP44/IP55/IP56
K80M2-6	1.7	890	0.55	1.7	1068	0.66	F/H	S1	IP44/IP55/IP56
K90S-6	2.1	910	0.75	2.1	1092	0.9	F/H	S1	IP44/IP55/IP56
K90L-6	3.0	910	1.1	3.0	1092	1.32	F/H	S1	IP44/IP55/IP56
K100L-6	3.8	920	1.5	3.8	1104	1.8	F/H	S1	IP44/IP55/IP56
K112M-6	5.4	940	2.2	5.4	1128	2.64	F/H	S1	IP44/IP55/IP56
K132S-6	7.1	960	3	7.1	1152	3.6	F/H	S1	IP44/IP55/IP56

K132M1-6	9.3	960	4	9.3	1152	4.8	F/H	S1	IP44/IP55/IP56
K132M2-6	12.4	960	5.5	12.4	1152	6.6	F/H	S1	IP44/IP55/IP56
K160M-6	16.6	970	7.5	16.6	1164	9	F/H	S1	IP44/IP55/IP56
K160L-6	23.6	970	11	23.6	1164	13.2	F/H	S1	IP44/IP55/IP56
K180L-6	30.5	970	15	30.5	1164	18	F/H	S1	IP44/IP55/IP56
K200L1-6	37.2	970	18.5	37.2	1164	22.2	F/H	S1	IP44/IP55/IP56
K200L2-6	42.9	970	22	42.9	1164	26.4	F/H	S1	IP44/IP55/IP56
K225M-6	57.2	980	30	57.2	1176	36	F/H	S1	IP44/IP55/IP56
K250M-6	68.4	980	37	68.4	1176	44.4	F/H	S1	IP44/IP55/IP56
K280S-6	82.6	980	45	82.6	1176	54	F/H	S1	IP44/IP55/IP56
K280M-6	100.4	985	55	100.4	1182	66	F/H	S1	IP44/IP55/IP56
K315S-6	139.2	990	75	139.2	1188	90	F/H	S1	IP44/IP55/IP56
K315M-6	164.5	990	90	164.5	1188	108	F/H	S1	IP44/IP55/IP56
K315L1-6	200.2	990	110	200.2	1188	132	F/H	S1	IP44/IP55/IP56
K315L2-6	236.9	990	132	236.9	1188	158.4	F/H	S1	IP44/IP55/IP56
K355M1-6	285.7	990	160	285.7	1190	192	F/H	S1	IP44/IP55/IP56
K355M-6	330.3	990	185	330.3	1190	222	F/H	S1	IP44/IP55/IP56
K355M2-6	357.1	990	200	357.1	1190	240	F/H	S1	IP44/IP55/IP56
K355L1-6	392.8	990	220	392.8	1190	264	F/H	S1	IP44/IP55/IP56
K355L2-6	446.4	990	250	446.4	1190	300	F/H	S1	IP44/IP55/IP56
K355L-6	499.9	990	280	499.9	1190	336	F/H	S1	IP44/IP55/IP56
K90L-8	2.3	660	0.55	2.3	792	0.66	F/H	S1	IP44/IP55/IP56
K100L-8	3.5	690	1.1	3.5	828	1.32	F/H	S1	IP44/IP55/IP56
K112M-8	4.4	690	1.5	4.4	828	1.8	F/H	S1	IP44/IP55/IP56
K132S-8	6.0	690	2.2	6.0	828	2.64	F/H	S1	IP44/IP55/IP56
K132M-8	7.7	710	3	7.7	852	3.6	F/H	S1	IP44/IP55/IP56
K160M1-8	10.0	720	4	10.0	864	4.8	F/H	S1	IP44/IP55/IP56
K160M2-8	13.2	720	5.5	13.2	864	6.6	F/H	S1	IP44/IP55/IP56
K160L-8	17.4	720	7.5	17.4	864	9	F/H	S1	IP44/IP55/IP56
K180L-8	24.9	720	11	24.9	864	13.2	F/H	S1	IP44/IP55/IP56
K200L-8	33.0	730	15	33.0	876	18	F/H	S1	IP44/IP55/IP56
K225S-8	40.4	730	18.5	40.4	876	22.2	F/H	S1	IP44/IP55/IP56
K225M-8	46.6	730	22	46.6	876	26.4	F/H	S1	IP44/IP55/IP56
K250M-8	62.1	740	30	62.1	888	36	F/H	S1	IP44/IP55/IP56
K280S-8	76.1	740	37	76.1	888	44.4	F/H	S1	IP44/IP55/IP56
K280M-8	92.2	740	45	92.2	888	54	F/H	S1	IP44/IP55/IP56

K315S-8	109.3	740	55	109.3	888	66	F/H	S1	IP44/IP55/IP56
K315M-8	148.0	740	75	148.0	888	90	F/H	S1	IP44/IP55/IP56
K315L1-8	174.7	740	90	174.7	888	108	F/H	S1	IP44/IP55/IP56
K315L2-8	212.5	740	110	212.5	888	132	F/H	S1	IP44/IP55/IP56
K355M1-8	253.9	740	132	253.9	890	158	F/H	S1	IP44/IP55/IP56
K355M2-8	306.5	740	160	306.5	890	192	F/H	S1	IP44/IP55/IP56
K355L1-8	352.1	740	185	352.1	890	222	F/H	S1	IP44/IP55/IP56
K355L2-8	380.6	740	200	380.6	890	240	F/H	S1	IP44/IP55/IP56
K355L-8	418.7	740	220	418.7	890	264	F/H	S1	IP44/IP55/IP56
K4002-2	599	2990	355	599	3590	426	F/H	S1	IP44/IP55/IP56
K4003-2	675	2990	400	675	3590	480	F/H	S1	IP44/IP55/IP56
K4004-2	759.3	2990	450	759.3	3590	540	F/H	S1	IP44/IP55/IP56
K4501-2	843.7	2990	500	843.7	3590	600	F/H	S1	IP44/IP55/IP56
K4502-2	944.9	2990	560	944.9	3590	672	F/H	S1	IP44/IP55/IP56
K4503-2	1063	2990	630	1063	3590	756	F/H	S1	IP44/IP55/IP56
K4504-2	1198	2990	710	1198	3590	852	F/H	S1	IP44/IP55/IP56
K4002-4	605.7	1495	355	602.5	1790	426	F/H	S1	IP44/IP55/IP56
K4003-4	682.5	1495	400	678.9	1790	480	F/H	S1	IP44/IP55/IP56
K4004-4	767.8	1495	450	763.7	1790	540	F/H	S1	IP44/IP55/IP56
K4501-4	853.1	1495	500	848.6	1790	600	F/H	S1	IP44/IP55/IP56
K4502-4	955.5	1495	560	950.4	1790	672	F/H	S1	IP44/IP55/IP56
K4503-4	1074.9	1495	630	1069.2	1790	756	F/H	S1	IP44/IP55/IP56
K4504-4	1211.4	1495	710	1205	1790	852	F/H	S1	IP44/IP55/IP56
K4003-6	500	990	280	499.5	1190	336	F/H	S1	IP44/IP55/IP56
K4004-6	562.4	990	315	561.8	1190	378	F/H	S1	IP44/IP55/IP56
K4501-6	633.9	990	355	633.2	1190	426	F/H	S1	IP44/IP55/IP56
K4502-6	714.2	990	400	713.5	1190	480	F/H	S1	IP44/IP55/IP56
K4503-6	803.5	990	450	802.8	1190	540	F/H	S1	IP44/IP55/IP56
K4504-6	892.8	990	500	892	1190	600	F/H	S1	IP44/IP55/IP56
K5001-6	999.9	990	560	999	1190	672	F/H	S1	IP44/IP55/IP56
K5002-6	1124.9	990	630	1123.9	1190	756	F/H	S1	IP44/IP55/IP56
K5003-6	1267.7	990	710	1266.6	1190	852	F/H	S1	IP44/IP55/IP56
K4004-8	418.7	745	220	418.7	890	264	F/H	S1	IP44/IP55/IP56
K4501-8	475.7	745	250	475.7	890	300	F/H	S1	IP44/IP55/IP56
K4502-8	532.8	745	280	532.8	890	336	F/H	S1	IP44/IP55/IP56
K4503-8	599.4	745	315	599.4	890	378	F/H	S1	IP44/IP55/IP56

K4504-8	675.5	745	355	675.5	890	426	F/H	S1	IP44/IP55/IP56
K5001-8	761.1	745	400	761.1	890	480	F/H	S1	IP44/IP55/IP56
K5002-8	856.3	745	450	856.3	890	540	F/H	S1	IP44/IP55/IP56
K5003-8	951.5	745	500	951.5	890	600	F/H	S1	IP44/IP55/IP56
K5004-8	1065.6	745	560	1065.6	890	672	F/H	S1	IP44/IP55/IP56
K560-8	1198.8	745	630	1198.8	890	756	F/H	S1	IP44/IP55/IP56
K560-8	1351	745	710	1351	890	852	F/H	S1	IP44/IP55/IP56
K5001-4	788.1	1495	800	783.9	1790	960	F/H	S1	IP44/IP55/IP56
K5002-4	886.6	1495	900	881.9	1790	1080	F/H	S1	IP44/IP55/IP56
K5003-4	985	1495	1000	980	1790	1200	F/H	S1	IP44/IP55/IP56
K5004-4	1103.3	1495	1120	1097.5	1790	1344	F/H	S1	IP44/IP55/IP56
K560-4	1231.4	1495	1250	1224.8	1790	1500	F/H	S1	IP44/IP55/IP56
K560-4	1379.1	1495	1400	1371.8	1790	1680	F/H	S1	IP44/IP55/IP56
K560-4	1576.1	1495	1600	1567.8	1790	1920	F/H	S1	IP44/IP55/IP56
K560-4	1970.2	1495	2000	1959.7	1790	2400	F/H	S1	IP44/IP55/IP56
K5004-6	824.7	990	800	824	1190	960	F/H	S1	IP44/IP55/IP56
K560-6	927.8	990	900	927	1190	1080	F/H	S1	IP44/IP55/IP56
K560-6	1030.9	990	1000	1030	1190	1200	F/H	S1	IP44/IP55/IP56
K560-6	1175.6	990	1120	1174.6	1190	1344	F/H	S1	IP44/IP55/IP56
K560-6	1312	990	1250	1310.9	1190	1500	F/H	S1	IP44/IP55/IP56
K560-8	882.5	745	800	882.5	890	960	F/H	S1	IP44/IP55/IP56
K560-8	992.9	745	900	992.9	890	1080	F/H	S1	IP44/IP55/IP56

\*\*\*\*\*结束/ The End\*\*\*\*\*