

中国船级社 CHINA CLASSIFICATION SOCIETY

证书编号/Certificate No. GB19PTB00025

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

Danfoss A/S

地址/Address

Nordborgvej 81, 6430 Nordborg, Denmark

产品名称/Product

温度传感器

Temperature Detectors 温度变送器

Temperature Transmitter

附加标志/Notations

无/Ni1.

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4篇第1章 Chapter 1, Part Four of China Classification Society Rules for Classification of Sea-Going Steel Ships 2018 and its

2. 中国船级社《钢质海船入级规范》(2018)及其修改通报第7篇第2章 Chapter 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

证书有效期至/This Certificate is valid until

2022年10月19日/Oct. 19,2022

发证机构 Issued by

中国船级社哥德堡办事处 CCS Gothenburg Office

2020年02月10日 签发日期

Feb. 10,2020

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This Certificate is issued portain to the Rules of the Society, and related regulation. All pages of the certificate are taken as a whole and are used simultaneously to paper certificate page is valid without bearing the manner the Society, no electronic certificate is regarded an valid. Any part or 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, 聚系方式/Contact Us. 见本社官方阿站/See official web site of the Society (http://www.ccs.org.cn)





UTN:P019-21481063

产品明细/Product Description

温度变送器/Temperature Transmitter (M001)

名称/Name	属性(惟)/Value	单位/Unit
产品名称/Product Name	Temperature Detectors	7 100
型号/Type	MBT 120/150/152/153/5250/5251/5252/5253, Sensor element: Pt100, Pt1000, NTC, PTC	
防护等级/Degree of Protection	IP67	
适用介质/Applicable Medium	MBT 150 / 152 / 153 are measuring insert. The sensors with interchangeable measuring insert.	
测量范围/Measure Range	-50 to 200	0

温度变送器/Temperature Transmitter (M002)

£145/Name	属性(值)/Value	单位/Unit
产品名称/Product Name	Temperature Detectors	
型号/Type	MBT 5111/5113/5114/5116, MBT 5111/5113 sensor element: 1 x K/2 x K class 2	
	MBT 5114/5116 sensor element: 1 x Pt 100/1000 or 2 x Pt100/1000	
防护等级/Degree of Protection	IP65	
适用介质/Applicable Medium	High temperature, For Exhaust gas. MBT 5114 / 5111 are sensors with a fixed measuring insert. MBT 5116 / 5113 are sensors with interchangeable measuring insert. MBT 5116 are made with R-Head or Slim-line	
测量范围/Measure Range	MBT 5111/5113: -50 to 800 MBT 5114/5116: -50 to 600	. c

温度变送器/Temperature Transmitter (M003)

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名称/Name	属性(值)/Value	McO/Finit
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产品名称/Product Name	Temperature Detectors	
型号/Type	MBT 5310, Sensor element: Pt 100, PT 1000	
防护等级/Degree of Protection	IP65	
适用介质/Applicable Medium	Intended for the bearing temperature monitor of engine and machine installed on ship.	
测量范围/Measure Range		° C

温度变送器/Temperature Transmitter (M004)

测量范围/Measure Range -50 to 200	lium	防护等级/Degree of Protection Senso	型号/Type MBT 5410. Sensor el	产品名称/Product Name Tempe	
0 200	Intended for room temperature sensor, not for application where flameproof or intrinsically safe equipment is required.	Sensor tube IP67 according to IEC 60529 Terminal box IP65 according to IEC 60529	MBT 5410, Sensor element: Pt100, Pt1000	Temperature Detectors	属性(值)/Value
° C					单位/Unit

温度变送器/Temperature Transmitter (M005)





适用介质/Applicable Medium Stern tube sensor, intended for stern tube applications to be embedded by means of beat	防护等级/Degree of Protection Sensor tube IP67 according to IEC 60529 Terminal box IP65 according to IEC 60529	型号/Type MBT 5722, Sensor element: Pt100

温度变送器/Temperature Transmitter (M006)

名称/Name	属性(值)/Value	单位/Unit
产品名称/Product Name	Temperature Transmitter, Input: Thermocouple / Pt-100 / Pt-1000 Used in Danfoss temperature detectors types: MBT 152/5252/5116/5113/5410/5722	
型号/Type	MBT 9110	
防护等级/Degree of Protection	IP67	
适用介质/Applicable Medium	N. A	
测量范围/Measure Range	N. A	° C

批准的图纸/Approved Drawings

图纸批准号/Drawings Approval No.: IIB19PPP20002

产品认可试验报告/ Approval Test Report

试验报告编号/Test Report No.; 试验报告日期/Test Report Date; MBT5111_5113_5114_5116_5116slim

2015-02-15

试验报告编号/Test Report No.: 试验报告日期/Test Report Date MBT120_150_152_153_5250_5252_5253_5260_5262 2015-02-15

试验报告编号/Test Report No.: 试验报告日期/Test Report Date: MBT5310_5410_5722_5560_9110 2015-02-15

试验报告编号/Test Report No.: 试验报告日期/Test Report Date: 2019WT0963 2019-12-11

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

standard accepted by the Society. the approval certificate issued by the Society. The manufacturer should take responsibility for product being in compliance with the convention, statutory regulation, the Society rules and the Certificate 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 issued by the Manufacturer should be provided to the purchaser together with the copy of the convention, statutory regulation, the Society rules and the

认可保持条件/ Maintenance Requirements of Approval

After type approval, if there are changes to the design, materials used or manufacturing method of 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。

the product and the product, or property indexes of the product are changed and exceed the scope of approval med necess med necessary by the survey office, the surveyor to the Society will go to witness relevant tests conduct inspection and the results should be able to demonstrate compliance with the approval important components and such changes affect major characteristics and properties to be examined and approved by the concerned survey office.

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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 shall be obtained

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。

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

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,且无需须发船用产品证书/等效证明文件的情况,证书获得者应接受本社和年一次的定期审核,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 证书获得者应接受本社每

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

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.

HB14T00052. This certificate is renewed from and supersedes the previous Type Approval Certificate No 2. 本证书由原型式认可证书 (No. HB14T00052) 换新并替代原证书。

