



中国船级社
CHINA CLASSIFICATION SOCIETY

证书编号/Certificate No.
PA24PTB00010

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

Schneider Electric Industries SAS

地址/Address

35 Rue Joseph Monier, 92500 Rueil-Malmaison, France

产品名称/Product

低压断路器
LOW-VOLTAGE CIRCUIT BREAKERS

认可标准/Approval Standard

- 1. 中国船级社《钢质海船入级规范》第4篇第1章、第3章
Chapter 1&3, Part Four of China Classification Society Rules for Classification of Sea-Going Steel Ships
- 2. IEC 60947-1:2007 + AMD1:2010 + AMD2:2014:《低压开关设备和控制设备-第1篇:通则》
IEC 60947-1:2007 + AMD1:2010 + AMD2:2014: Low-voltage switchgear and controlgear - Part 1: General Rules
- 3. IEC60947-2:2016 + A1:2019:《低压开关设备和控制设备-第2部分:低压断路器》
IEC60947-2:2016+ A1:2019:Low-voltage Switchgear and Controlgear - Part 2: Circuit-breakers

用于/Intended for

船舶与海上设施/Ships and Offshore Installations

产品明细/Product Description

断路器/Circuit Breaker (M0001)

名称/Name	属性(值)/Value	单位/Unit
型号/Type	ComPacT NSX 100/ NSX 160/ NSX 250 Refer to the attachment in details	
额定工作电压/Rated Operational Voltage	690	V
额定电流/Rated Current	100/160/250	A
额定频率/Rated Frequency	50/60	Hz
额定运行短路分段能力(Ics)/Rated Service Short-Circuit Breaking Capacity	Refer to the attachment in details	
额定极限短路分段能力(Iku)/Rated Ultimate Short-Circuit Breaking Capacity	Refer to the attachment in details	

证书有效期至/This Certificate is valid until 2026年09月27日/ Sep. 27,2026

发证机构 中国船级社天津办事处
Issued by CHINA CLASSIFICATION SOCIETY Office

签发日期 2025年01月01日
Date Jan. 01,2025

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: 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:P025-76514934

极数/Number of Poles	3/4	
安装方式/Method of Installation	Fixed/Plug-in/Withdrawable	
选择性类别/Selectivity category	A	
脱扣器型式/Type of Releases	Refer to the attachment in details	

批准的图纸/Approved Drawings

图纸批准号/ Drawings Approval No. : HB10T00024-1;HB10T00024-2

产品认可试验报告/ Approval Test Report

试验报告编号/ Test Report No. : SPEC22AA6541_v4
 试验报告日期/ Test Report Date : 2023-06-27
 试验单位/ Laboratory: F-Lab
 试验单位地址/ Test Address: F-Lab – Site Volta – Grenoble – France

试验报告编号/ Test Report No. : SPEC22AA6560_v3
 试验报告日期/ Test Report Date : 2023-06-27
 试验单位/ Laboratory: F-Lab
 试验单位地址/ Test Address: F-Lab – Site Volta – Grenoble – France

试验报告编号/ Test Report No. : SPEC22AA6687_v3
 试验报告日期/ Test Report Date : 2023-07-12
 试验单位/ Laboratory: F-Lab
 试验单位地址/ Test Address: F-Lab – Site Volta – Grenoble – France

试验报告编号/ Test Report No. : SPEC23AA0287_v3
 试验报告日期/ Test Report Date : 2023-07-12
 试验单位/ Laboratory: F-Lab
 试验单位地址/ Test Address: F-Lab – Site Volta – Grenoble – France

试验报告编号/ Test Report No. : SPEC23AA0279_v2
 试验报告日期/ Test Report Date : 2023-06-30
 试验单位/ Laboratory: F-Lab
 试验单位地址/ Test Address: F-Lab – Site Volta – Grenoble – France

试验报告编号/ Test Report No. : SPEC23AA0313_v1
 试验报告日期/ Test Report Date : 2023-06-29
 试验单位/ Laboratory: F-Lab
 试验单位地址/ Test Address: F-Lab – Site Volta – Grenoble – France

试验报告编号/ Test Report No. : SPEC23AA0317_v1
 试验报告日期/ Test Report Date : 2023-06-28
 试验单位/ Laboratory: F-Lab
 试验单位地址/ Test Address: F-Lab – Site Volta – Grenoble – France

试验报告编号/ Test Report No. : SPEC22AA6690_v3
 试验报告日期/ Test Report Date : 2023-07-12
 试验单位/ Laboratory: F-Lab
 试验单位地址/ Test Address: F-Lab – Site Volta – Grenoble – France

试验报告编号/ Test Report No. : 2011990033 Amendment No. 1
 试验报告日期/ Test Report Date : 2021-08-20
 试验单位/ Laboratory: Zhejiang Fangyuan Test Group CO.,Ltd.
 试验单位地址/ Test Address: Guangqiong Rd, Jiaxing City, Zhejiang Province.P.R.China

试验报告编号/ Test Report No. : 2011990036 Amendment No. 1
 试验报告日期/ Test Report Date : 2021-08-20
 试验单位/ Laboratory: Zhejiang Fangyuan Test Group CO.,Ltd.
 试验单位地址/ Test Address: Guangqiong Rd, Jiaxing City, Zhejiang Province.P.R.China

试验报告编号/ Test Report No. : 00901-CB2018CQC-083914
 试验报告日期/ Test Report Date : 2019-04-16
 试验单位/ Laboratory: STIEE
 试验单位地址/ Test Address: No.505 Wu Ning Road, 200063 Shanghai, China

试验报告编号/ Test Report No. : 1811990037 Amendment 1
试验报告日期/ Test Report Date : 2019-12-23
试验单位/ Laboratory: Zhejiang Fangyuan Test Group Co., Ltd.
试验单位地址/ Test Address: Guangqiong Road, Jiaxing City, Zhejiang Province, China

试验报告编号/ Test Report No. : 00901-CB2015CQC-067946
试验报告日期/ Test Report Date : 2016-07-13
试验单位/ Laboratory: STIEE
试验单位地址/ Test Address: No.505 Wu Ning Road, 200063 Shanghai, China

试验报告编号/ Test Report No. : 201200923-001 to 009
试验报告日期/ Test Report Date : 2013-02-27
试验单位/ Laboratory: L2E
试验单位地址/ Test Address: 37 Quai Paul Louis Merlin 38050 Grenoble France

试验报告编号/ Test Report No. : ASEFA_XXX_08BT
试验报告日期/ Test Report Date : 2009-03-01
试验单位/ Laboratory: ASEFA
试验单位地址/ Test Address: 33 Avenue du General Leclerc, 92260 Fontenay-aux-Roses France

试验报告编号/ Test Report No. : 2111939009
试验报告日期/ Test Report Date : 2021-12-15
试验单位/ Laboratory: Zhejiang Fangyuan Test Group CO.,Ltd.
试验单位地址/ Test Address: Guangqiong Rd, Jiaxing City, Zhejiang Province, P.R.China

试验报告编号/ Test Report No. : 00901-CB2018CQC-083913
试验报告日期/ Test Report Date : 2019-05-20
试验单位/ Laboratory: STIEE
试验单位地址/ Test Address: No.505 Wu Ning Road, 200063 Shanghai, China

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. 该系列产品按照IACS UR E10要求进行相关试验。

This series of products are tested according to the requirements of IACS UR E10.

3. 本证书由原型式认可证书 (No. :PA22PTB00009) 换新并替换原证书。

This certificate is renewed from and supersedes the previous Type Approval Certificate No. PA22PTB00009

4. Name and location of the Manufacturers:

Trip units:

Schneider Electric France

USINE ANGOULÊME AGRIERS ZE DES AGRIERS FR 16021 ANGOULEME, FRANCE

Final Assembling:

Schneider Electric Alpes

ZONE D'ACTIVITES ALPESPACE RUE ISAAC NEWTON 73800 PORTE-DE-SAVOIE, FRANCE

SCHNEIDER ELECTRIC INDUSTRIES POLSKA SP. Z. O. O

UL. MOSTOWA 19 - 32-332 BUKOWNO - POLAND

中国船级社巴黎办事处

CCS Paris Office

注: 本证书含有附页, 共2页

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

Molded Case Circuit Breaker (MCCB)

Ratings:

Rated Current at 40°C (A) *:	100	160	250
Type:	ComPacT NSX 100	ComPacT NSX 160	ComPacT NSX 250
Rated insulation voltage(V):	800	800	800
Rated operation voltage(V):	690	690	690
Impulse Withstand voltage(kV):	8	8	8
Rated Frequency (Hz):	50/60	50/60	50/60
No. of poles:	3/4	3/4	3/4

Rated ultimate short circuit breaking cap. (kA): Icu

Rated Current at 40°C (A) *:	100	160	250
220/240 V	40/B, 85/F, 90/N, 100/H, 120/S, 150/L, 200R		
380/415 V	25/B, 36/F, 50/N, 70/H, 100/S, 150/L, 200/R		
440 V	20/B, 35/F, 50/N, 65/H, 90/S, 130/L, 200/R		
500 V	15/B, 25/F, 36/N, 50/H, 65/S, 70/L, 80/R, 85/HB1, 100/HB2		
525 V	22/F, 35/N, 35/H, 40/S, 50/L, 65/R, 80/HB1, 100/HB2		
660/690V	8/F, 10/N, 10/H, 15/S, 20/L, 45/R, 75/HB1, 100/HB2		

Rated service short circuit breaking cap. (kA): Ics

Rated Current at 40°C (A) *:	100	160	250
220/240 V 380/415 V 440 V 500 V 525 V 660/690V	40/B, 85/F, 100% I _{cu} /N/H/S/L/R 25/B, 36/F, 100% I _{cu} /N/H/S/L/R 20/B, 35/F, 100% I _{cu} /N/H/S/L/R 7.5/B,12.5/F, 100% I _{cu} /N/H/S/L/R/HB1/HB2 11/F, 100% I _{cu} /N/H/S/L/R/HB1/HB2 4/F,10/S,10/L, 100% I _{cu} /N/H /R/HB1/HB2	100% I _{cu} (Except for S and L type at 660/690 V : 10/S, 10/L)	

Release type:

Rated Current at 40°C (A) *:	100	160	250
Thermal magnetic	TM16D to 100D (16 to 100A) TM16G to 100G	TM32D to 160D (32 to 160A) TM25G to 160G	TM63D to 250D (63 to 250A) TM160G to 250G
Magnetic	MA2.5 to 100 (2.5 to 100A)	MA25 to 150 (25 to 150A)	MA100 to 220 (100 to 220A)
Electronic	MicroLogic 2 (40 to 100A) MicroLogic 5/6 A or E (40 to 100A)	MicroLogic 2 (40 to 160A) MicroLogic 5/6 A or E (40 to 160A)	MicroLogic 2 (40 to 250A) MicroLogic 5/6 A or E (40 to 250A)

*: Current rating is given for 40 °C. To be derated for ambient temperature of 45 °C.