



中国船级社  
CHINA CLASSIFICATION SOCIETY

证书编号/Certificate No.  
JS20PTB00329

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

泰州亿丰达电器有限公司  
Taizhou IFONDA Electric Apparatus CO., LTD.

地址/Address

江苏省泰州市高港区刁铺街道丰岸路民营工业园标准化厂房区S11  
S11, Industrial Park, Diaopu Street, Gaogang District, Taizhou City, Jiangsu Province

产品名称/Product

断路器  
Circuit Breaker



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 Amendments
2. IEC 60947-2: 2016+AMD1: 2019 CSV 《低压开关设备和控制设备-第2部分: 断路器》  
IEC 60947-2: 2016 + AMD1: 2019 CSV 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	见附页 See additional pages	
使用类别/Utilization Category	见附页 See additional pages	
额定工作电压(Ue)/Rated Operational Voltage	见附页 See additional pages	
额定电流/Rated Current	见附页 See additional pages	
额定频率/Rated Frequency	见附页 See additional pages	
额定运行短路分断能力(Ics)/Rated Service Short-Circuit Breaking Capacity	见附页 See additional pages	

证书有效期至/This Certificate is valid until 2025年02月19日/ Feb. 19, 2025

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

签发日期 2021年05月14日  
Date May. 14, 2021

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:P021-72736826

额定极限短路分断能力 (Icu) /Rated Ultimate Short-Circuit Breaking Capacity	见附页 See additional pages	
额定短时耐受电流 (Icw) /Rated Short-Time Withstand Current	见附页 See additional pages	
额定接通能力 (Icm) /Rated Making Capacity	见附页 See additional pages	
极数/Number of Poles	见附页 See additional pages	
安装方式/Method of Installation	见附页 See additional pages	
脱扣器型式/Type of Releases	见附页 See additional pages	

### 批准的图纸/Approved Drawings

图纸批准号/ Drawings Approval No. : NP16A01942, NP17A02439, NP17A02806, NP19PPP02865

### 产品认可试验报告/ Approval Test Report

试验报告编号/ Test Report No. : 160133115035  
 试验报告日期/ Test Report Date : 2016-12-23  
 试验单位/ Laboratory: 浙江方圆电气设备检测有限公司 Zhejiang FangYuan Electrical Testing Co.,Ltd  
 试验单位地址/ Test Address: 浙江省嘉兴市广穹路400号 No.400, Guangqiong Road, Jiaxing City, Zhejiang

试验报告编号/ Test Report No. : 1813330001, 1813330002  
 试验报告日期/ Test Report Date : 2018-05-25  
 试验单位/ Laboratory: 国家电器安全质量监督检验中心 (浙江) State center of supervision and test for electrical safety(Zhejiang)  
 试验单位地址/ Test Address: 浙江省嘉兴市广穹路400号 No.400, Guangqiong Road, Jiaxing, Zhejiang

试验报告编号/ Test Report No. : 1813330003, 1813330004  
 试验报告日期/ Test Report Date : 2018-05-30  
 试验单位/ Laboratory: 国家电器安全质量监督检验中心 (浙江) State center of supervision and test for electrical safety(Zhejiang)  
 试验单位地址/ Test Address: 浙江省嘉兴市广穹路400号 No.400, Guangqiong Road, Jiaxing, Zhejiang

试验报告编号/ Test Report No. : 1913330012  
 试验报告日期/ Test Report Date : 2020-01-10  
 试验单位/ Laboratory: 浙江方圆电气设备检测有限公司 Zhejiang FangYuan Electrical Testing Co.,Ltd.  
 试验单位地址/ Test Address: 浙江省嘉兴市广穹路400号 No.400, Guangqiong Road, Jiaxing City, Zhejiang

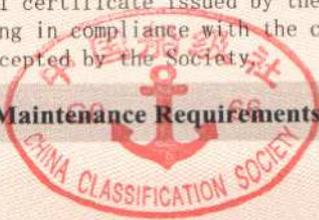
试验报告编号/ Test Report No. : 2013330033  
 试验报告日期/ Test Report Date : 2020-09-04  
 试验单位/ Laboratory: 浙江方圆电气设备检测有限公司 Zhejiang FangYuan Electrical Testing Co.,Ltd.  
 试验单位地址/ Test Address: 浙江省嘉兴市广穹路400号 No.400, Guangqiong Road, Jiaxing City, Zhejiang

试验报告编号/ Test Report No. : 2111939001, 2111939002  
 试验报告日期/ Test Report Date : 2021-03-23  
 试验单位/ Laboratory: 浙江方圆检测集团股份有限公司 Zhejiang Fangyuan Test Group Co., Ltd.  
 试验单位地址/ Test Address: 浙江省嘉兴市广穹路400号 No.400, Guangqiong Road, Jiaxing City, Zhejiang

### 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

本证书由原型式认可证书 (No. NJ16T00190, NJ17T00254, JS19PTB00245) 变更并换新。

This certificate is modified and renewed from the previous Type Approval Certificate No. NJ16T00190, NJ17T00254, JS19PTB00245.

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.

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)



## 产品明细/ Product Description

## 万能式断路器/ Conventional Circuit-Breaker

产品型号/Type	DW960X	DW960-16N	
使用类别/Utilization Category	B		
额定工作电压 (Ue)/Rated Operational Voltage	AC230V、400V、440V		
额定电流(I <sub>n</sub> )/Rated Current	2000A,2500A,2900A,3200A	200A,400A,630A,800A,1000A,1250A,1600A	
额定频率/Rated Frequency	50Hz/60Hz		
分断能力代号/ Code of breaking capacity		N1	N2
额定运行短路分断能力 (I <sub>cs</sub> )/Rated Service Short-current Breaking Capacity	80 kA	50 kA	55 kA
额定极限短路分断能力 (I <sub>cu</sub> )/Rated Ultimate Short-current Breaking Capacity	100 kA	50 kA	65 kA
额定短时耐受电流(I <sub>cw</sub> )/Rated Short-time Withstand Current	80 kA	50 kA	65 kA
额定短路接通能力 I <sub>cm</sub> / Rated Short-circuit making capacity	220kA	105 kA	136 kA
极数/Number of Poles	3 or 4		
安装方式/ Method of Installation	固定式/Fixed 或/ or 抽屉式/Withdrawable		
脱扣器型式/Type of releases	分励脱扣器/ Shunt Release 过电流脱扣器/ Over-Current Release 欠电压脱扣器/Under voltage Release		



## 产品明细/ Product Description

## 塑壳式断路器/ Moulded Case Circuit-Breaker

产品型号/Type	IDM3-1				IDM3-2				IDM3-3			
使用类别/Utilization Category	A											
额定工作电压(Ue)/Rated Operational Voltage	AC230V、400V、440V											
额定电流(In)/Rated Current	(10~160) A				(100~250) A				(250~630) A			
额定频率/Rated Frequency	50 Hz/60Hz											
断路器类型/Type of circuit breaker	C	S	M	H	C	S	M	H	C	S	M	H
额定运行短路分断能力(Ics)/Rated Service Short-current Breaking Capacity kA	35	50	75	100	35	50	75	100	35	50	75	100
额定极限短路分断能力(Icu)/Rated Ultimate Short-current Breaking Capacity kA	35	35	75	75	35	50	50	75	35	50	75	75
额定短时耐受电流(Icw) /Rated Short-time Withstand Current kA	35	50	75	100	35	50	75	100	35	50	75	100
极数/Number of Poles	3 or 4											
安装方式/ Method of Installation	固定式/Fixed											
脱扣器型式/Type of releases	分励脱扣器/ Shunt Release 过电流脱扣器/ Over-Current Release 欠电压脱扣器/Under voltage Release											



## 产品明细/ Product Description

## 小型断路器/ Miniature Circuit-Breaker

产品型号/Type	idC63N
使用类别/Utilization Category	A
额定工作电压(Ue)/Rated Operational Voltage	AC230V、400V、440V
额定电流(In)/Rated Current	6~63A
额定频率/Rated Frequency	50 Hz/60Hz
额定运行短路分断能力(Ics)/Rated Service Short-current Breaking Capacity	6kA
额定极限短路分断能力(Icu)/Rated Ultimate Short-current Breaking Capacity	10kA
额定短时耐受电流(Icw) /Rated Short-time Withstand Current	6kA
极数/Number of Poles	1 or 2 or 3 or 4
安装方式/ Method of Installation	固定式/Fixed
脱扣器型式/Type of releases	分励脱扣器/Shunt Release 欠电压脱扣器/Under voltage Release

\*\*\*\*\*本证书附页完/End of Attachment\*\*\*\*\*

