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XIHARI

No. 235779

检 验 报 告

TEST REPORT

试 品 型 号:	HXGN□-V
TYPE	
试 品 名 称:	环保气体全绝缘全密封金属封闭环网开关设备
DESIGNATION	ENVIRONMENT-FRIENDLY GAS FULLY INSULATED FULLY SEALED METAL CLOSED RING SWITCHGEAR
委 托 单 位:	厦门宏发电气有限公司
APPLICANT	XIAMEN HONGFA ELECTRIC CO., LTD.
制 造 单 位:	厦门宏发电气有限公司
MANUFACTURER	XIAMEN HONGFA ELECTRIC CO., LTD.
检 验 类 别:	型式试验 (温升及绝缘性能)
CLASSIFICATION	TYPE TEST (TEMPERATURE-RISE AND DIELECTRIC PERFORMANCE)



西安高压电器研究院常州有限责任公司

XI'AN HIGH VOLTAGE APPARATUS RESEARCH INSTITUTE CHANGZHOU CO., LTD.



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注：对高压开关类型式试验报告包含 6 种基本形式：

note: The six basic type test reports for high-voltage switchgear and controlgear are as follows:



——完整型式试验报告 Type Test Report of Complete Type Test

——绝缘性能型式试验报告 Type Test Report of Dielectric Performance

——温升性能型式试验报告 Type Test Report of Temperature Rise Performance

——短路/开断和关合性能型式试验报告 Type Test Report of Short-Circuit / Making and Breaking Performance

——开合性能型式试验报告 Type Test Report of Switching Performance

——内部电弧性能型式试验报告 Type Test Report of Internal Arc Performance

2) 性能试验报告: 报告包含了一项或多项试验, 试验依照相关的标准实施, 仅验证试品所做试验项目的性能。Performance Test Report: a report contains records of one or more tests carried out according to a related standards, only the performance conducted to the tests are verified.

3) 研究性试验报告: 报告包含了一项或多项试验, 试验依照客户要求或参照相关标准实施。Researching Test Report: a report contains records of one or more tests carried out based on a recognized standard, or according to the client's instruction.

4) 其它试验报告(委托试验报告、定型试验报告等)。Other (e.g. entrusted test report, prototype test report).

8 检验报告封面到结论页页面右下角无查询二维码无效。The entire report shall be considered invalid if there is no QR code in the bottom-right corner from the cover page to the "Conclusions " page.

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目录

Table of contents

目录 Table of contents	1
试品基本信息 Description of the test object	2
检验结论 Conclusions	4
试品确认 Identification of the test object	6
测量不确定度 Measurement uncertainty	13
报告中使用的符号和缩写 Symbols and abbreviation used in test report	14
绝缘试验总则 General of dielectric test	16
工频耐受电压试验 Power-frequency withstand voltage test	17
雷电冲击耐受电压试验 Lightning impulse withstand voltage test	21
辅助和控制回路的绝缘试验 Dielectric test on auxiliary and control circuit	37
局部放电试验 Partial discharge tests	39
短时耐受电流和峰值耐受电流试验 Short-time and peak withstand current tests	42
回路电阻测量 Measurement of the resistance of circuits	50
温升试验 Temperature-rise tests	55
图纸 Drawings	63



试品基本信息

Description of the test object

型号名称: HXGN□-V 环保气体全绝缘全密封金属封闭环网开关设备
 Type and Designation: Environment-Friendly Gas Fully Insulated Fully Sealed Metal Closed Ring Switchgear
 委托单位: 厦门宏发电气有限公司
 Applicant: Xiamen Hongfa Electric Co., Ltd.
 地址: 厦门市海沧区东孚西二路 15 号 (361028)
 Address: No.15, Dongfuxi Second Road, Haicang District, Xiamen (361028)
 电话 Tel: 0592-5996731 传真 Fax: 0592-5996732
 制造单位: 厦门宏发电气有限公司
 Manufacturer: Xiamen Hongfa Electric Co., Ltd.
 地址: 厦门市海沧区东孚西二路 15 号 (361028)
 Address: No.15, Dongfuxi Second Road, Haicang District, Xiamen (361028)
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制造单位规定的试品主要技术数据 Main technical data assigned by the manufacturer:

额定电压 Rated voltage kV	12	
额定电流 Rated current A	630	✓
额定频率 Rated frequency Hz	50	✓
额定短时耐受电流(主回路) Rated short-time withstand current (main circuit) kA	20	✓
额定峰值耐受电流(主回路) Rated peak withstand current(main circuit) kA	50	✓
额定短路持续时间(主回路) Rated duration of short-circuit(main circuit) s	4	✓
额定短时耐受电流(接地回路) Rated short-time withstand current (earthing circuit) kA	17.4	
额定峰值耐受电流(接地回路) Rated peak withstand current (earthing circuit) kA	43.5	
额定短路持续时间(接地回路) Rated duration of short-circuit (earthing circuit) s	2	
额定短时工频耐受电压 Rated short-duration power-frequency withstand voltage kV	42	✓
额定雷电冲击耐受电压 Rated lightning impulse withstand voltage kV	75	✓
额定短时工频耐受电压(断口) Rated power-frequency withstand voltage(across the open switching device) kV	48	✓
额定雷电冲击耐受电压(断口) Rated lightning impulse withstand voltage(across the open switching device) kV	85	✓



气体的额定压力(20℃表压) Rated pressure of gas(meter pressure at 20℃) Mpa	干燥空气 Dry air 0.02	
气体的最低功能压力(20℃表压) Min. function pressure of gas(meter pressure at 20℃) Mpa	干燥空气 Dry air 0.01	
防护等级 Degree of protection	IP4X/IP2X	
出厂日期及编号 Manufacture date and serial number	2023-07、G2023070088	
注 1: 以上信息和数据由委托单位/制造单位提供, 本实验室不对其准确性负责。 Note1: The above information and data are provided by Applicant/Manufacturer and the laboratory is not responsible for its accuracy. 注 2: “√” 表示该额定值在本检验报告中已得到验证。 Note2: “√” This rating has been proved by the tests in this report.		



检验结论

Conclusions

型号名称: HXGN□-V 环保气体全绝缘全密封金属封闭环网开关设备
Type and Designation: Environment-Friendly Gas Fully Insulated Fully Sealed Metal Closed Ring Switchgear
委托单位: 厦门宏发电气有限公司
Applicant: Xiamen Hongfa Electric Co., Ltd.
地址: 厦门市海沧区东孚西二路 15 号 (361028)
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依据标准 Standards for Test Performance: GB/T 3906-2020

实施的项目 Test have been performed:

序号 Serial	项目 Items	参数 Parameters	判定标准 Standards for Verdict	结果 Result
1	工频耐受电压试验 Power frequency withstand voltage tests	相间及对地 Between phases, to earth: 42kV 1min 真空断口 Across vacuum contact: 48kV 1min 隔离断口 Across the isolating distance: 48kV 1min	GB/T 3906-2020 7.2	符合 Satisfied
2	雷电冲击耐受电压试验 Lightning impulse withstand voltage tests	相间及对地 Between phases, to earth: 75kV 真空断口 Across vacuum contact: 85kV 隔离断口 Across the isolating distance: 85kV	GB/T 3906-2020 7.2	符合 Satisfied
3	控制和辅助回路的绝缘试验 Dielectric tests on auxiliary and control circuits	2000V 1min	GB/T 3906-2020 7.2.11	符合 Satisfied
4	局部放电测量 partial discharge measurement	13.2kV \leq 20pC	GB/T 3906-2020 7.2.10	符合 Satisfied
5	短时耐受电流和峰值耐受电流试验 Short-time and peak withstand current tests	主回路 Main circuit: 20kA、4s、峰值(peak) 50kA	GB/T 3906-2020 7.6	符合 Satisfied
6	回路电阻测量 Measurement of the resistance of circuits	/	GB/T 3906-2020 7.4	符合 Satisfied



序号 Serial	项目 Items	参数 Parameters	判定标准 Standards for Verdict	结果 Result
7	温升试验 Temperature-rise tests	1.1×630A (按委托方要求, 试验电流为 额定电流的 1.1 倍 Required by clients, the test current was 1.1 times the rated current)	GB/T 3906-2020 7.5	符合 Satisfied
8	辅助和控制设备的温升试验 Temperature-rise Tests of A.C.E	/	GB/T 3906-2020 7.5.6	符合 Satisfied

注 Note:

1. 试验参照 CHPTL[2018]09 号 《12kV 环网柜（箱）标准化设计样机试验细则》中要求进行。
Tests were performed with the reference to No. CHPTL[2018]09 <Test plan for 12kV ring main unit standardized sample>.

2. 本产品已按照国家电网公司制定的《12kV 环网柜（箱）标准化设计定制方案》中规定在试品制造单位完成现场样机检查。现场样机检查实施日期为 2023-08-11。The test sample already finished the spot inspection in according to <Custom solution for 12kV ring main unit standardized sample design> at the manufacturer plant. The date of spot inspection is 2023-08-11.

编写
Edited:

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Checked:

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批准
Approved:

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