

校准证书
Calibration Certificate中国认可
国际互认
校准
CALIBRATION
CNAS L5138

证书编号

Certificate No.

Z2026N5-D386775

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客户名称

Client Name

安徽省引江济淮工程有限责任公司

地 址

Address

合肥市包河区云谷路辅路与徽州大道辅路交叉口西北120米

仪器名称

Description

高压开关动特性测试仪

型号/规格

Model/Type

UHV (T)-408

制造厂商

Manufacturer

武汉特高压电力科技有限公司

出厂编号

Serial Number

2604043

管理编号

Management No.

/

接收日期

Date of Receipt

2026 年

Year

04 月

Month

21 日

Day

校准日期

Calibration Date

2026 年

Year

04 月

Month

21 日

Day

建议下次校准日期

Due Date

2027 年

Year

04 月

Month

20 日

Day

发布日期

Issue Date

2026 年

Year

04 月

Month

22 日

Day



发证单位(专用章)

Issued by (stamp)

批准:

Approved by

张勇

张勇[总部]

核验:

Inspected by

韦洁

韦洁

校准:

Calibrated by

李洋

李洋

地址: 广东省深圳市龙岗区锦龙大道2号

Add: No.2, Jinlong Road, Longgang District, Shenzhen,
Guangdong, China

电话(Tel): 0755-84815081

邮编(Post Code): 518116

网址(Web): <http://www.tiansu.org>邮箱(E-mail): zskf@tiansu.org

说明

DIRECTIONS

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of

- 本实验室质量管理体系依据ISO/IEC17025:2017建立。
The laboratory quality management systems document is established according to ISO/IEC17025:2017.
- 本证书中的数据均可溯源至国际单位制（SI）单位和/或社会公用计量标准。
The data in this certificate can be traced to International System of Units (SI) and/or social public measurement standards.
- 本证书未经签章、数据涂改、或分离使用均无效。未经我司书面批准，不得部分复制此证书。校准结果仅对受测仪器当时之情况负责。
The Certificate is invalid when no stamp sealed on, data alteration or separate use. Without our written approval, the certification should not be partially duplicated. The calibration results are only responsible for calibration conditions of the instrument at the time.
- 本证书具有唯一性，带有相同证书编号、按页码顺序的组成页为校准证书，我司对本证书的内容拥有最终解释权。
The certificate is unique, and made up of pages with same certificate number and serial order, and reserves final explanation right of the certificate contents.
- 证书中最大允许误差、判定结果仅供参考，其中“P”代表“符合”，“F”代表“不符合”。
MPE & judgement result in the datasheet is only for reference, "P" is "Pass" "F" is "Fail".
- 若被校仪器属于强检范畴，按照法规要求，不能替代检定证书。
If the instrument belongs to compulsory test field, the corresponding calibration can not replace the verification according to the compulsory regulations.
- 带※的参数项目表示不在CNAS认可范围内。
Parameter with asterisk '※' is not within the accreditation by CNAS.
- 本次校准所依据的技术文件(Reference documents for the calibration):
JJG(军工)77-2015 直流稳压电源检定规程
JJG1120-2015 高压开关动作特性测试仪检定规程
- 校准的地点及环境条件(Place and environmental condition in the calibration):
校准地点: 委托方现场【一楼实验室】
Cal. Place: _____
温 度: 18.0 °C 相对湿度: 57 %
Temperature: _____ Relative Humidity: _____
10. 校准所用的主要计量标准器具(Main Standards of Measurement Used in the Calibration):

名称 Description	设备编号 Equipment No.	证书编号 Certificate No.	有效期至 Due date	溯源机构 Actuator
高压开关特性测试仪校准装置	TS-SB-40372	校准字第202511102313号	2026-11-09	中国测试技术研究院
数字多用表	TS-SB-00235	Z20253-E034145	2026-04-29	深圳天溯计量检测股份有限公司

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1. 外观及工作性能检查:

(Appearance & Working Performance Check)

符合 (Pass)

2. 合闸时间:

Closing Time

相别 Phase	标准值 Standard Value	示 值 Indication	示值误差 Indication Error
A1	40ms	40.07ms	+0.07ms
	100ms	100.07ms	+0.07ms
	195ms	195.07ms	+0.07ms
B1	40ms	40.06ms	+0.06ms
	100ms	100.07ms	+0.07ms
	195ms	195.07ms	+0.07ms
C1	40ms	40.10ms	+0.10ms
	100ms	100.10ms	+0.10ms
	195ms	195.10ms	+0.10ms
A2	40ms	40.10ms	+0.10ms
	100ms	100.10ms	+0.10ms
	195ms	195.10ms	+0.10ms
B2	40ms	40.10ms	+0.10ms
	100ms	100.10ms	+0.10ms
	195ms	195.10ms	+0.10ms
C2	40ms	40.10ms	+0.10ms
	100ms	100.10ms	+0.10ms
	195ms	195.10ms	+0.10ms
A3	40ms	40.06ms	+0.06ms
	100ms	100.07ms	+0.07ms
	195ms	195.06ms	+0.06ms
B3	40ms	40.10ms	+0.10ms
	100ms	100.10ms	+0.10ms
	195ms	195.10ms	+0.10ms
C3	40ms	40.10ms	+0.10ms
	100ms	100.10ms	+0.10ms
	195ms	195.10ms	+0.10ms

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相别 Phase	标准值 Standard Value	示 值 Indication	示值误差 Indication Error
A4	40ms	40.10ms	+0.10ms
	100ms	100.10ms	+0.10ms
	195ms	195.10ms	+0.10ms
B4	40ms	40.06ms	+0.06ms
	100ms	100.06ms	+0.06ms
	195ms	195.06ms	+0.06ms
C4	40ms	40.10ms	+0.10ms
	100ms	100.10ms	+0.10ms
	195ms	195.10ms	+0.10ms

3. 合闸同期性: Closing Synchronism

相别 Phase	标准值 Standard Value	示 值 Indication	示值误差 Indication Error
A1B1C1	2ms	2.00ms	0.00ms
A2B2C2	2ms	2.00ms	0.00ms
A3B3C3	2ms	1.99ms	-0.01ms
A4B4C4	2ms	2.01ms	+0.01ms

4. 分闸时间: Closing Time

相别 Phase	标准值 Standard Value	示 值 Indication	示值误差 Indication Error
A1	40ms	39.99ms	-0.01ms
	100ms	99.99ms	-0.01ms
	195ms	194.99ms	-0.01ms
B1	40ms	39.99ms	-0.01ms
	100ms	99.99ms	-0.01ms
	195ms	194.99ms	-0.01ms

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相别 Phase	标准值 Standard Value	示 值 Indication	示值误差 Indication Error
C1	40ms	39.98ms	-0.02ms
	100ms	99.98ms	-0.02ms
	195ms	194.98ms	-0.02ms
A2	40ms	39.99ms	-0.01ms
	100ms	99.98ms	-0.02ms
	195ms	194.98ms	-0.02ms
B2	40ms	39.99ms	-0.01ms
	100ms	99.99ms	-0.01ms
	195ms	194.99ms	-0.01ms
C2	40ms	39.99ms	-0.01ms
	100ms	99.99ms	-0.01ms
	195ms	194.99ms	-0.01ms
A3	40ms	39.99ms	-0.01ms
	100ms	99.99ms	-0.01ms
	195ms	194.99ms	-0.01ms
B3	40ms	39.99ms	-0.01ms
	100ms	99.99ms	-0.01ms
	195ms	194.99ms	-0.01ms
C3	40ms	39.99ms	-0.01ms
	100ms	99.99ms	-0.01ms
	195ms	194.99ms	-0.01ms
A4	40ms	39.98ms	-0.02ms
	100ms	99.98ms	-0.02ms
	195ms	194.98ms	-0.02ms
B4	40ms	39.98ms	-0.02ms
	100ms	99.98ms	-0.02ms
	195ms	194.98ms	-0.02ms
C4	40ms	39.98ms	-0.02ms
	100ms	99.98ms	-0.02ms
	195ms	194.98ms	-0.02ms

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5. 分闸同期性:

Opening Synchronism

相别 Phase	标准值 Standard Value	示 值 Indication	示值误差 Indication Error
A1B1C1	2ms	2.00ms	0.00ms
A2B2C2	2ms	2.00ms	0.00ms
A3B3C3	2ms	2.01ms	+0.01ms
A4B4C4	2ms	2.01ms	+0.01ms

6. 弹跳时间:

Bounce Time

相别 Phase	标准值 Standard Value	示 值 Indication	示值误差 Indication Error
A1	5ms	5.00ms	0.00ms
	10ms	10.00ms	0.00ms
B1	5ms	5.00ms	0.00ms
	10ms	10.00ms	0.00ms
C1	5ms	5.00ms	0.00ms
	10ms	10.00ms	0.00ms
A2	5ms	5.00ms	0.00ms
	10ms	10.00ms	0.00ms
B2	5ms	5.00ms	0.00ms
	10ms	10.00ms	0.00ms
C2	5ms	5.00ms	0.00ms
	10ms	10.00ms	0.00ms
A3	5ms	5.00ms	0.00ms
	10ms	10.00ms	0.00ms
B3	5ms	5.00ms	0.00ms
	10ms	10.00ms	0.00ms
C3	5ms	5.00ms	0.00ms
	10ms	10.00ms	0.00ms

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相别 Phase	标准值 Standard Value	示 值 Indication	示值误差 Indication Error
A4	5ms	5.00ms	0.00ms
	10ms	10.00ms	0.00ms
B4	5ms	5.00ms	0.00ms
	10ms	10.01ms	+0.01ms
C4	5ms	5.00ms	0.00ms
	10ms	10.00ms	0.00ms
7. 平均合闸速度: Average Closing Speed			
标准值 Standard Value	示值 Indication	示值误差 Indication Error	
0.100m/s	0.08m/s	-0.020m/s	
0.501m/s	0.50m/s	-0.001m/s	
0.965m/s	0.94m/s	-0.025m/s	
8. 平均分闸速度: Average Opening Speed			
标准值 Standard Value	示值 Indication	示值误差 Indication Error	
0.100m/s	0.09m/s	-0.010m/s	
0.502m/s	0.48m/s	-0.022m/s	
0.941m/s	0.93m/s	-0.011m/s	
9. 直流电压: DC Voltage			
示值 Indication	实测值 Measured Value	误差 Error	
24V	24.206V	-0.206V	

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示值 Indication	实测值 Measured Value	误差 Error
48V	48.225V	-0.225V
110V	110.159V	-0.159V
220V	220.43V	-0.43V

说明:本次测量结果的扩展不确定度为:
(The Expanded Uncertainty of the Measurement Result Is)

合闸时间: $U=0.01\text{ms}$;分闸时间: $U=0.01\text{ms}$;弹跳时间: $U=0.01\text{ms}$;平均合闸速度: $U=0.010\text{m/s}$;平均分闸速度: $U=0.010\text{m/s}$;直流电压: $U_{\text{rel}}=0.3\%$ $k=2$

(依据JJF1059.1-2012测量不确定度评定与表示)

(According to JJF1059.1-2012 Evaluation and Expression of Uncertainty in Measurement)

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