

NEIC<sup>®</sup>

No\_XG19101249



中国认可  
国际互认  
检测  
TESTING  
CNAS L0107



# TEST REPORT

**Specimen:** High voltage / Low voltage Prefabricated Substation

**Model:** YB□-33/0.4-630

**Consignor:** Wenzhou Rockwill Electric Co.,Ltd

**Test Type:** Type test

**National High-low Voltage Electrical Apparatus Quality  
Supervision and Inspection Center (NEIC)  
Gansu Electric Apparatus Research Institute**

NEIC		Test Report	Application No.: WG19101115
<b>Catalogue</b>			
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Remark	The electromagnetic compatibility (EMC) test involved in this report was completed in West Liaoyuan Road, Shetang Industrial Park, Tianshui Economic and Technological Development Zone, Gansu Province, P.R China; the remaining testing items were completed in No. 6-6 Changkai Road, Qinzhou District, Tianshui City, Gansu Province.		

NEIC	Test Report	Application No.: WG19101115
Test conclusion		
<p>Specimen: YB□-33/0.4-630      High voltage / Low voltage Prefabricated Substation  Consignor: Wenzhou Rockwill Electric Co.,Ltd.  Consignor address: Dongyan Village, Wengying Street, Yueqing City, Wenzhou, Zhejiang, China  Manufacturer: Wenzhou Rockwill Electric Co.,Ltd.  Manufacturer address: Dongyan Village, Wengying Street, Yueqing City, Wenzhou, Zhejiang, China  Ex-factory number:201807133  Ex-factory date: July 2018  Receipt date of the specimen: Augst 2019  Test dates: August 8, 2019~August 25, 2019</p> <p><b>Test items:</b>  <b>Design and visual inspection (factory inspection)</b>  <b>Wiring correctness check(factory inspection)</b>  <b>Earthing continuity check (factory inspection)</b>  <b>Functional test (factory inspection)</b>  <b>Main circuit insulation test (factory inspection)</b>  <b>Auxiliary and control circuit insulation test (factory inspection)</b>  <b>Insulation test (type test)</b> [power frequency voltage: high voltage chamber phase to phase, phase to ground 95kV/1min, across the isolating distance 118kV/1min; low-voltage main circuit 2500V/1min; high-voltage chamber lightning impulse voltage: phase to phase, phase to ground 185 kV, across the isolating distance 215kV]  <b>Verification of creepage distance (type test)</b>  <b>Temperature rise test (type test)</b> [11.02A/909A(high voltage circuit / low voltage circuit)]  <b>Main circuit short-time withstand current and peak withstand current test (type test)</b> [main circuit:30kA (rms) , 63kA (peak), 1s; earthing circuit: 20kA (rms) ,2s; 50 kA (peak),0.3s]  <b>Earthing circuit continuity test (type test)</b> [≤100mΩ]  <b>Functional test (type test)</b>  <b>Verification of protection degree (type test)</b> [enclosure:IP44]  <b>Verification of enclosure withstand mechanical stress test (type test)</b>  <b>Verification of sound level test (type test)</b> [≤45dB]</p>		
<p><b>Test Basis:</b>  IEC 61330-1995 High-voltage/low-voltage prefabricated substation  IEC 62271-202:2006 High-voltage switchgear and controlgear - Part 202: High-voltage/low voltage prefabricated substation</p>		
<p><b>Test Conclusion:</b>  The test results of all items comply with regulations of test standards and technical documents; the</p>		
Drafted by: Wang Xiawa Signature:  Date: 2019.10.11	Reviewed by: Na Yan Signature:  Date: 2019.10.11	Audited by: Lin Yan Signature:  Date: 2019.10.11 Approved by: Hu Xinming Signature:  Date: 2019.10.11


## The main components matching with specimen

1. Transformer	
Model specifications:	S12-M-630/33
Ex-factory date:	Feb 2018
Ex-factory number:	201802485
Manufacturer:	Wenzhou Rockwill Electric Co.,Ltd
2. Fan	
Model specifications:	matching with the transformer
Ex-factory date:	/
Ex-factory number:	/
Manufacturer:	/
3. High voltage switchgear	
Model specifications:	RMR40.5C/630-20、RMR40.5V/630-20
Ex-factory date:	March 2018
Ex-factory number:	201802452 201802453
Manufacturer:	Wenzhou Rockwill Electric Co.,Ltd
4. lightning arrester	
Model specifications:	YH10WZ
Ex-factory date:	February 2018
Ex-factory number:	201802010
Manufacturer:	Zhejiang Haibo Electric Co.,Ltd
5. Protection relay	
Model specifications:	RP500
Ex-factory date:	February 2018
Ex-factory number:	201802280
Manufacturer:	Wenzhou Rockwill Electric Co.,Ltd
6. Low-voltage switchgear	
Model specifications:	NA1-1600/3
Ex-factory date:	February 2018
Ex-factory number:	201802214
Manufacturer:	CHINT Electric Co., Ltd.
7. Power capacitor	
Model specifications:	BSMJ-0.415-40.3
Ex-factory date:	February 2018
Ex-factory number:	201802541
Manufacturer:	CHINT Electric Co., Ltd.
8. Enclosure	
Manufacturer:	Self-made

### Photos of the specimen

Photos of the specimen appearance (including appearance and nameplate):



HV/LV Prefabricated Substation			
Product type	YB <sub>2</sub> -33/0.4-630	Standard	IEC61330
Rated Voltage	630/0.4KV	Protection Grade	IP44
Rated capacity	630KVA	Rated Frequency	50Hz
Total weight	4700KG	Service conditions	Outdoors
Factory Code	201802133	Manufacture date	2018.07
 <b>WENZHOU ROCKWILL ELECTRIC CO. LTD</b>			