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TESTING
CNAS L0730



SOUTH CHINA NATIONAL CENTER OF METROLOGY
GUANGDONG INSTITUTE OF METROLOGY

TEST REPORT

No. XNZ202201035

Name of Sample: Three Phase Four Wire Static Energy Meter(DIN-rail mounted)

Model / Type: ADW300
3×220/380V 3×1(6) A

Sample Number: SYZ21070430001

Applicant: Jiangsu Acrel Electrical Manufacturing. Co., Ltd.

Manufacturer: Jiangsu Acrel Electrical Manufacturing. Co., Ltd.

Test Type: Commission

Date Issued: 2022-03-23



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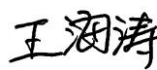
E-mail: zl@scm.com.cn


Website: <http://www.scm.com.cn>

(1) Basic Information

Name of Sample	Three Phase Four Wire Static Energy Meter(DIN-rail mounted)	Trade Mark	—
Model / Type	ADW300 3×220/380V 3×1(6) A	Class	Class 2 (Reactive)
Sample No.	SYZ21070430001	Sample quantity	1
Applicant	Jiangsu Acrel Electrical Manufacturing. Co., Ltd.		
Address	No.5,Dongmeng Road, Nanzha, Jiangyin, Jiangsu, China		
Manufacturer	Jiangsu Acrel Electrical Manufacturing. Co., Ltd.		
Test Site	Environment Lab of Dongguan Branch		
Test Conditions	Temperature: (23 ±3)°C Humidity: ≤60%RH		
Date Received	Mar. 10, 2022	Commission No.	WT20221026
Test Date	Mar. 10, 2022 to Mar. 23, 2022	Test Type	Commission
Test Item	1. Cold test 2. Dry heat test 3. Reactive energy error		
Test Standard	IEC 60068-2-1 (Edition 6.0): 2007 Environmental testing – Part 2-1: Tests – Test A: Cold IEC 60068-2-2 (Edition 5.0): 2007 Environmental testing – Part 2-2: Tests – Test B: Dry heat IEC 62053-23(Edition 2.0):2020 Electricity metering equipment - Particular requirements - Part 23: Static meters for reactive energy (classes 2 and 3)		
Conclusion	PASS (Seal of Report)		
Remarks	—		

Tested by: 

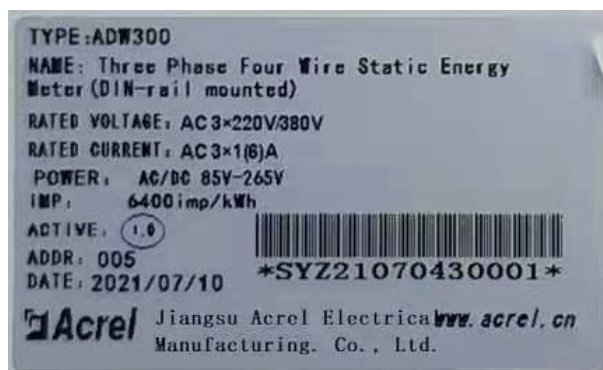
Checked by: 

Approved by: 

(2) Test Results Summary

No.	Test Item	Sample No.	Pass (P)	Fail (F)
1	Cold test	SYZ21070430001	P	
2	Dry heat test	SYZ21070430001	P	
3	Reactive energy error	SYZ21070430001	P	

(3) Sample Photo



(4) Main Metrology Instrument and Test Equipment

No.	Name of Instrument/Model	Serial No.	Certificate No. /Due Date	Technical Characteristic
1	Small high and low temperature damp heat test chamber /WHTH-80L-40-880	ZH19261	RZD202108633 /2022-10-28	Temperature deviation : ±2°C Humidity deviation : ±3%RH
2	Electric measuring instrument /KS833	202004002	DBB202104885 /2022-08-15	Class 0.05

(5) Test Result

1 Cold test

Technical requirement:

After the cold test, the meter shall show no damage or change of the information and shall operate correctly.

Technical method:

The test shall be carried out according to IEC 60068-2-1, under the following conditions:

- meter in non-operating condition;
- temperature: -25 °C;
- duration of the test: 2 h.

Test equipment: WHTH-80L-40-880

Test result:

Sample No.	Test result
SYZ21070430001	After the cold test, the meter show no damage or change of the information and operate correctly.

Conclusion: Pass

2 Dry heat test

Technical requirement:

After the dry heat test, the meter shall show no damage or change of the information and shall operate correctly.

Technical method:

The test shall be carried out according to IEC 60068-2-2, under the following conditions:

- meter in non-operating condition;
- temperature: +55 °C;
- duration of the test: 2 h.

Test equipment: WHTH-80L-40-880

Test result:

Sample No.	Test result
SYZ21070430001	After the dry heat test, the meter show no damage or change of the information and operate correctly.

Conclusion: Pass

3 Reactive energy error

Technical requirement: Reactive energy MPE: $\pm 2.0\%$ 。

Test method: Reactive energy error of test samples with comprehensive calibration device of electrical measuring equipment.

Test equipment: KS833

Test result:

Sample No.	Test Conditions	Standard value (kVarh)	Measured value (kVarh)	Error (%)	Limits error (%)
SYZ21070430001	$U=220.00V$ $I=6.000A$ $\sin\phi=1$	2.306	2.30	-0.26	± 2.0
	$U=220.00V$ $I=1.000A$ $\sin\phi=1$	0.901	0.90	-0.11	± 2.0

Conclusion: Pass
