ebmpapst

Test Report

Subject : PPAP & 72h Locked rotor Test

Sample Name : AC axial fan

Sample No : W6D800-GD01-01 (epNH)

Test Date : 2021/3/8

Project No : PHR05690

Tested by: Zeng hanhai 2021.4.2

Checked by: Ryan Xin 2021.4.2

Approved by: Kevin Shao 2021.4.2

Issue Date: 2021.4.2

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Content

1.Test Purpose: 3
2.Sample information: 3
3.Test Equipment: 4
4.Test Method 4
5.Test Set Up: 5
6.Test Data: 6
7.Test Conclusion: 10

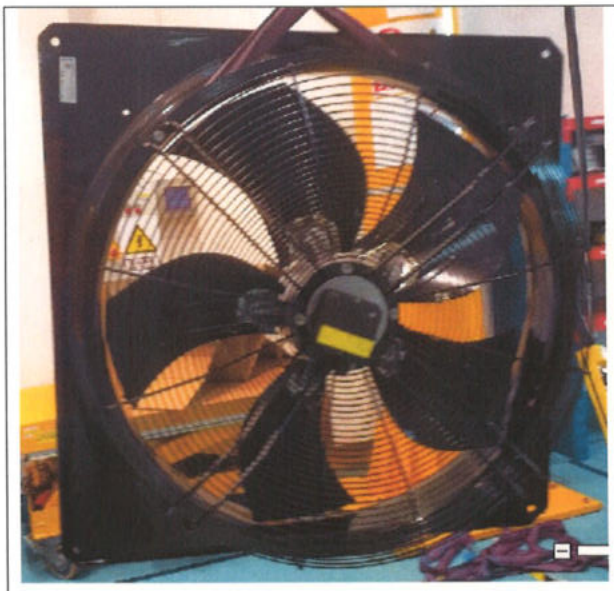
1.Test Purpose:

PPAP & 72h locked rotor test for localization sample.

2.Sample information:

Sample Quantity	1Pcs
Sample Describe	AC axial fan : AC motor + axial impeller + guard grill + wallring (made by epNH)

Sample Picture

	
Front	Back

3.Test Equipment:

	Equipment Name	Equipment NO.
Test Equipment	Large air chamber	epCNWGQAir1
	Data acquisition	KEYSIGHT 34972A

Equipment picture

		
Large air chamber		**Data acquisition**

4.Test Method

Environment Condition	Temperature	Humidity	Atmosphere Pressure	Air Density
	17°C	56%	1024 hPa	1.224 kg/m³
Test Standard or Method	Air performance test according to ISO 5801 Temperature rising according to EN60034			

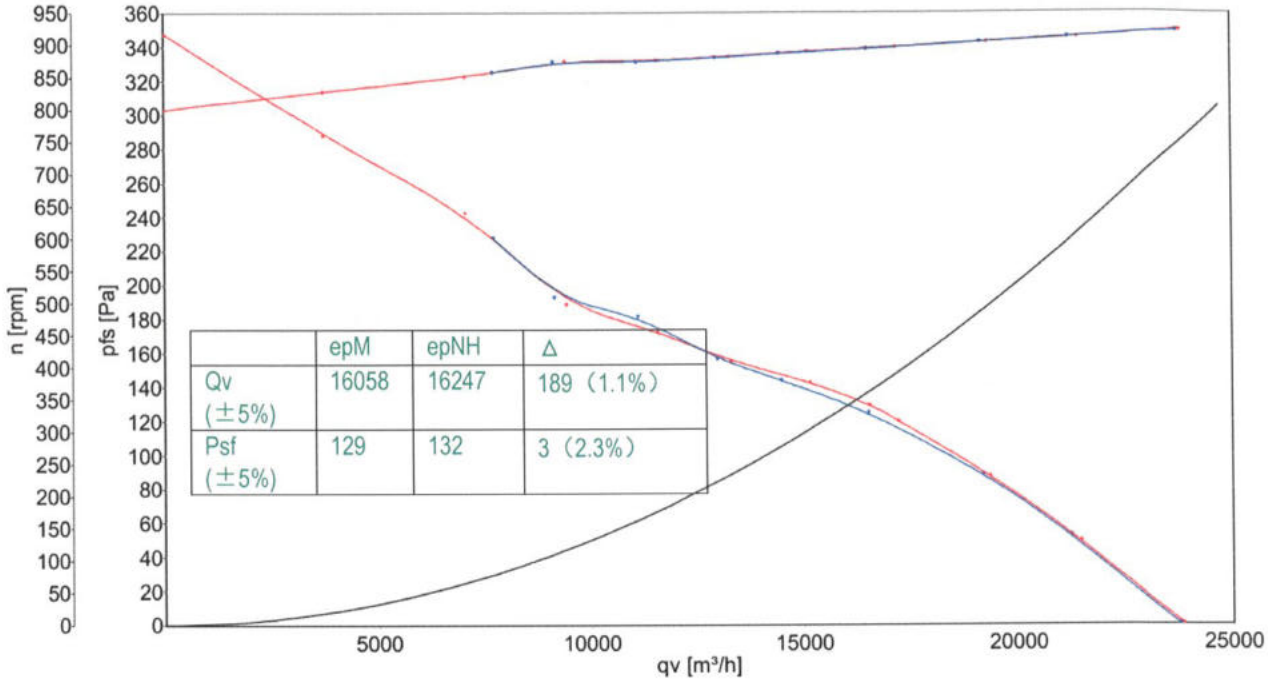
5.Test Set Up:

	air performance test
	72h locked-rotor test

6.Test Data:

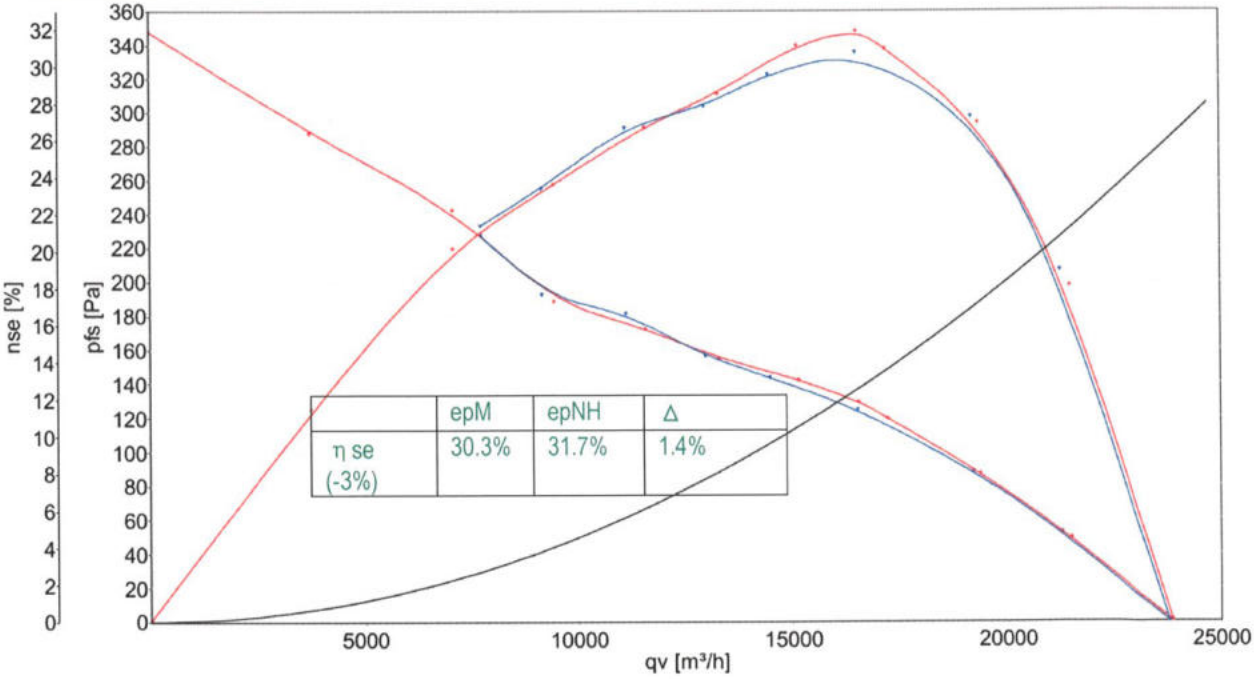
Air performance

Line	Idno	Type	Idx.	U [V]	f [Hz]	C [uF]	Ust [V]	Layout	Inst. cat.	Remark
◆—◆	13044	W6D800GD0101	07B	400	50			Δ	A	epNH | Rho=1.2; Leak corr.
▼—▼	166691	A6D800AD01	01A	400	50		0	Δ	A	epM | Rho=1.2; Leak corr.



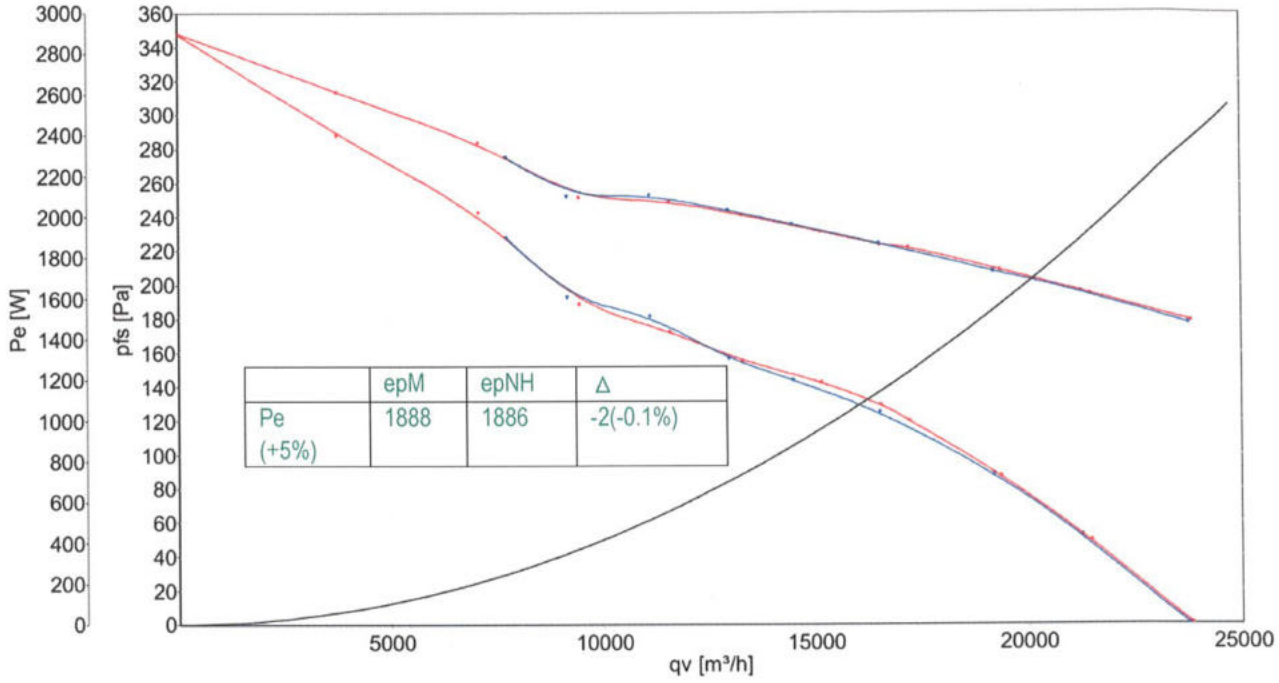
	epM	epNH	Δ
Qv (±5%)	16058	16247	189 (1.1%)
Psf (±5%)	129	132	3 (2.3%)

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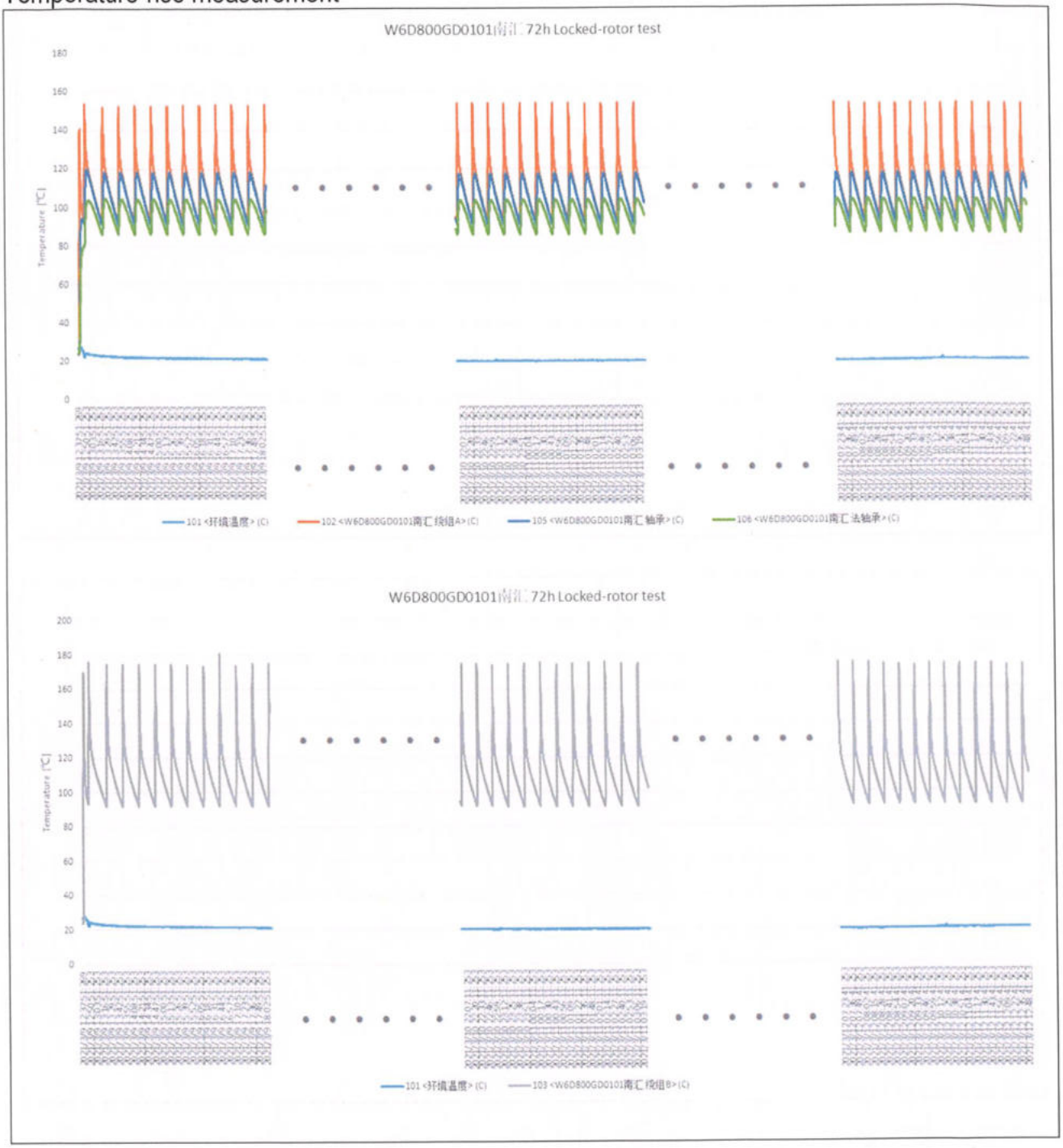
	epM	epNH	Δ
η se (-3%)	30.3%	31.7%	1.4%

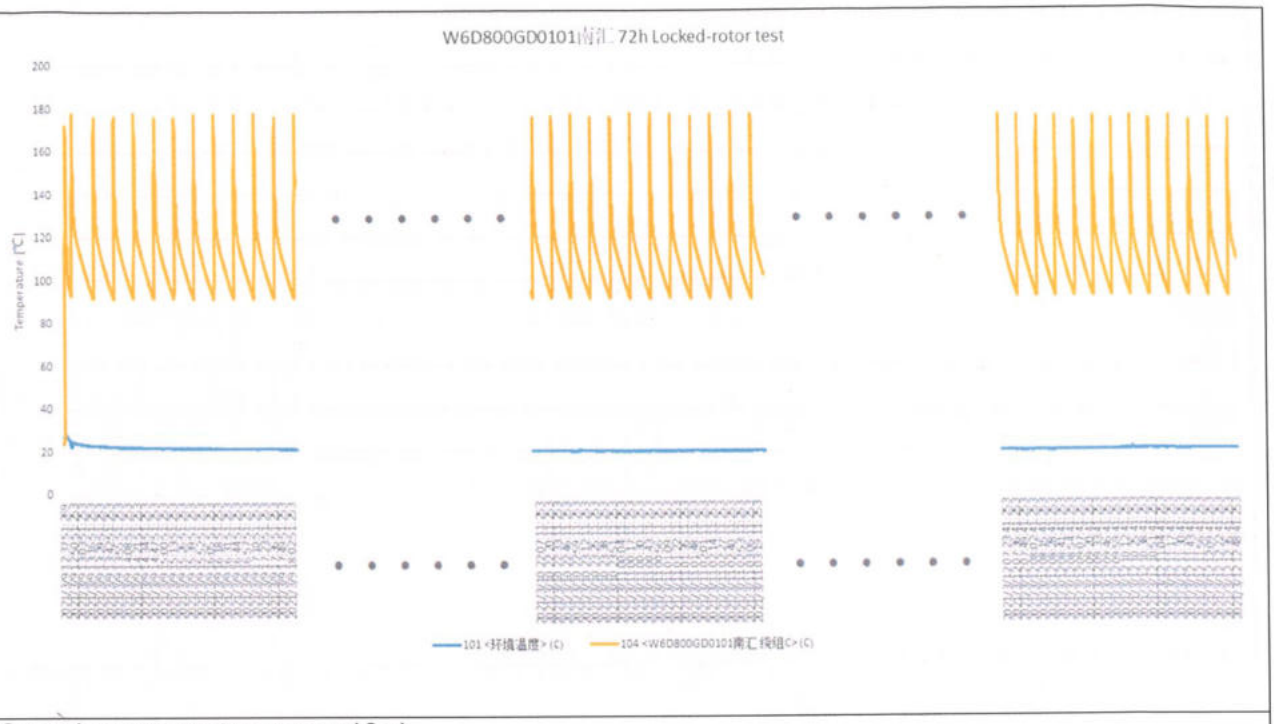
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	epM	epNH	Δ
Pe (+5%)	1888	1886	-2(-0.1%)

Temperature-rise measurement





(Scanning temperature every 10s.)

Motor locked rotor test under 400V50Hz for 72h.

7.Test Conclusion:

Test Item	Test Deviation	Allowed Deviation	Test Result	Remark
Air Volume qv	1.1%	±5%	pass	Compare to ID166691
Air Pressure psf	2.3%	±5%	pass	Compare to ID166691
Input Power Pe	-0.1%	+5%	pass	Compare to ID166691
Efficiency nse	1.4%	-3%	pass	Compare to ID166691
Temperature Rising	See the temperature-rise measurement	<limit (insulation class F)	pass	According to EN60034

As the same fan configuration, this report is also valid for types made by epNH as below:
S6D800AD0101
A6D800AD0101
S6D800CD0101

---------- The End ----------

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