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LIFE TEST REPORT

Test Sample	Model No: RAH2589B2-C	Sample No: REL07166.1#-8#	Samples From	Test condition	Temperature: 80°C	Test start date: 071101	Test time
	Size: 5pcs Voltage: 115V Current: 1.0A Speed: 2600±10RPM		<input type="checkbox"/> engineer <input type="checkbox"/> prior run <input checked="" type="checkbox"/> production		Voltage: 115V	Test end date: 080924	4560

MTTF formula:

1、According to the equation for Weibull distrib

$$MTTF = \frac{t}{1.036 \times (T_R \mp n)^{0.91}} \times A_F \quad A_F = 2^{(T_s - T_u) / 10}$$

t: Zero failure time。

T_R: Confidence level(GEM 90%)

n: Samples size

A_F: Accelerate factor

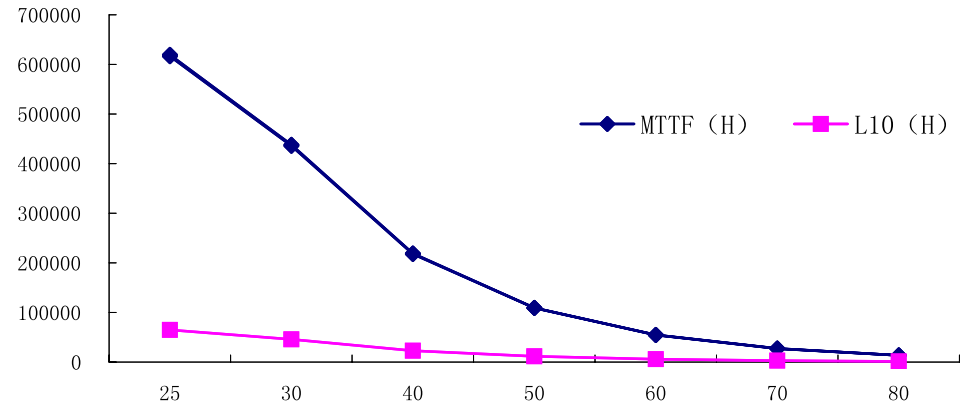
T_s: Testing temperature

T_u: Room temperature

GEM (Generalized Exponential Model Table)

Failure specification definition:

- 1、Working current over 30% of rated current;
- 2、Rotating speed over 30% of specification;
- 3、Fan cannot rotate.



Confidence	Failure value										
90%	0	1	2	3	4	5	6	7	8	9	10
	2.3	3.9	5.3	6.7	8.0	9.3	10.5	11.8	13.0	14.3	15.4

Test result:

Tem (°C)	25	30	40	50	60	70	80
MTTF (H)	619312	437920	218960	109480	54740	27370	13685
L10 (H)	65191	46097	23048	11524	5762	2881	1441

Accelerate factor to Environmental temperature

T _u (°C)	25	30	40	50	60	70	80
A _F	45.25	32	16	8	4	2	1

Approved by: luo jian chao Check by: liu shui quan Prepared by: zhu ya mei