

LIFE TEST REPORT

Test Sample	Model No: ACF13391V2	Sample No: REL09025.1#-10#	Samples From	Test condition	Temperature: 80℃	Test start date 090110	Test time
	Size: 10pcs Voltage: 230V Current: 0.11A Speed: 2800±20%RPM				<input type="checkbox"/> engineer <input type="checkbox"/> prior run <input checked="" type="checkbox"/> production	Voltage: 230V	Test end date: 090620

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

AF: Accelerate factor

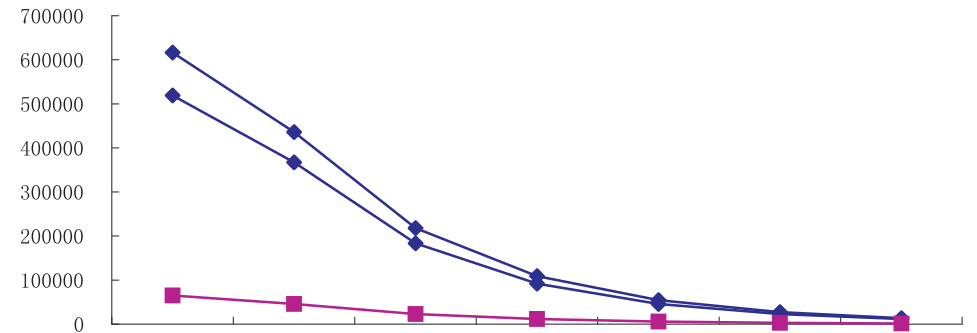
T_s: Testing temperature

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
Accelerate factor to Environmental temperature											
T _u (°C)	25	30	40	50	60	70	80				
AF	45.25	32	16	8	4	2	1				

Test result:

Tem (°C)	25	30	40	50	60	70	80
MTTF (H)	519144	367090	183545	91772	45886	22943	11472
L10 (H)	54647	38641	19321	9660	4830	2415	1208

Approved by:	Check by:	Prepared by: zhu ya mei
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