

Life Test Report

Model NO.		MC21673		Test Condition		Test Result		
Spec.	Speed	3,200	RPM	Input voltage	230V AC 60Hz	Failed Q'ty		5
	Current	0.11	AMP	Temperature	Vertical	Life Expectancy	L10 (hours)	31,168
Sample tested	50	Pcs	Orientation	70°C	MTTF (hours)		55,787	
Test hours/Each	30,912	Hours	Running	In Free Air				
Failure Definition				Test Result , (Including Time To Failure , Datum , Statistics etc)				
1. No function. 2. RPM under 15% of original 3. Current over 15% of original 4. Noise over 3dB(A) of original The Life Expectancy of this fan has not been evaluated for use in combination with any end application. Therefore, the Life Expectancy Test Report(L10/ MTTF Report) that relates to this fan is only for reference.				Accu.F/Q	TTF(Hrs)	UUT	Accu.F/R	Finding
				1	16,968	49	2.00%	Speed under 15%
				2	21,504	48	4.00%	Speed under 15%
				3	25,200	47	6.00%	Speed under 15%
				4	28,224	46	8.00%	Speed under 15%
				5	30,912	45	10.00%	Speed under 15%
Life calculation according to the equation for Weibull distribution to obtain relevant data				Accelerate Factor ; AF = 1.5 (Testing Temp. - Operating Temp.)/10				
Shape parameter;β	3.2543	Temp. Range	30°C	40°C	50°C	60°C	70°C	
Characteristic parameter; θ	62,235 hrs	AF (Multiple)	5.06	3.38	2.25	1.5	1	
$MTTF = \theta x \Gamma \left(1 + \frac{1}{\beta} \right)$	55,787 hrs	MTTF (hours)	282,422	188,281	125,521	83,681	55,787	
$L10 = \theta x (0.10536)^{\frac{1}{\beta}}$	31,168 hrs	L10 (hours)	157,788	105,192	70,128	46,752	31,168	

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