

DC FAN LIFE EXPERIMENT REPORT

A 11-1-1 - C 41 1-1 141-	1		A 11					
Available for these models with may be followed byRxx orFxx so								
169X172X50.8mm series as the	right table							
Representative Test P/N	: THB1748B0	GARM(S)						
Equipment: 1.Oven: E2	24-T0161		On/Off Cycles: Every 500 hours					
◎ L ₁₀ Expectancy:		70,000	hours minin	num @ fan rated	_	=		
According to the equation						$7 \times L10 =$	490,000	hours
And we rely on a zero fa				-	ue, to determin	e		
the total test time (t) for	r verifying the		-	-	- (Te-Tu	\/10		
				(c) : n] $^{0.91}$: A_F , an		//10		
where, $(B_{r,c})$ is Poisson of				er of r equal to 0 a	nd			
the decimal confidence	level of c equ	al to 0.90(90%	%). I	Ι				1
Stress/Elevated Temperature Ts (°C') (Actual Test Temperature)	Unstress Temperature Tu (°C)	Acceleration Factor A _F	Quantity of Test Devices n (pcs)	$\begin{array}{c} \textbf{Poisson} \\ \textbf{Distribution Factor} \\ \textbf{B}_{r;c} \end{array}$	Required test time with zero failure t (hours)	Actual test time with zero failure t (hours)	Verified MTTF 40 ℃ (hours)	Verified L ₁₀ 40 °C (hours)
85	40	22.63	20	2.303	3,138	7,454.0	1,163,897	166,271
Test Progress:								
		Date f	or Test				Current Total Test Time	
Date for Test Beg	ginning		on (at least)		rent Test Stati	IS	(hours)	
2019/1/8 1:40 PM		2019/7/23 11:54 PM		In process	In process (exceed requested) Termination		7454.0	
Herewith , we could assume time exceed the required, it c	omes out that th	nose fans' L ₁₀ exp	pectancy and MT	TF are greater than	Temperature for MTTF Estimation (°C)	Acceleration Factor A _F	Estimated MTTF (hours)	Estimated L_{10} (hours)
the warrant. (MTTF: mea system setting. Now we show	•	25	64.00	3,291,997	470,285			
failed fans during life experiment in a repairable system setting		neans Mean Time	e Between failure	es, it should be used	30	45.25	2,327,793	332,542
in a repairable system setting	•				40	22.63	1,163,897	166,271
					50	11.31	581,948	83,135
					60	5.66	290,974	41,568
Fan permission criteria for the second of the second can not drop of the second of the				am.	70	2.83	145,487	20,784
 Speed can not drop of Current cannot increase 	ли.	80	1.41	72,744	10,392			
3. Noise cannot >3dB o	85	1.00	51,437	7,348				
							7	Accept
	Test Result			Reject				
QE File No.		For function ers (hours)	Issu	ned Date	Reported By		Approved By	
DG18FNL118	8FNL118 4724.33 2020/5/30			20/5/30	Loly.Wang		Tim.Yi	
<u> </u>	1		I		1			

BGN (dBA):15.9 Temp (℃):24.4



DC FAN FUNCTION TEST RECORD FOR LIFE EXPERIMENT

model may	be followed byl		and same physical str uffixes. This test repo table						
Required Test Time (hrs)		Date for Test Beginning		Date for Test Termination		Sample Size (pcs):	Failure (pcs):	Current Total Test Time (hrs)	
3,138 2019/1/8 1:40 PM			2019/7/23 11:54 PM		20	0	7454.0		
Representative Test P/N : THB1748BGARM(S)				Current Te			In process	In process (exceed requested)	Termination
Equipm	ent: 1.Over	n: E24-T0161					On/Off Cycle	es: Every 500	hours
			Test Data l	Between Init	tial Test and F	inal Test			
Sample No.	Initial Test Current Spec. (A)	Final Test Current Spec. (A)	Deviation (%)	Initial Test Speed Spec. (RPM)	Final Test Speed Spec. (RPM)	Deviation (%)	Initial Test Noise Spec. (dB A)	Final Test Noise Spec. (dB A)	Deviation
	4.2 Max.	4.2 Max.		7200-8800	7200-8800		79.0Max	79.0Max	3 dBMax.
1	3. 67	3.69	0.5	7987	7828	-2.0	75.6	74.6	-1.0
2	3.60	3.63	0.7	8047	7866	-2.2	75.7	76.1	0.4
3	3. 72	3.60	-3.5	7945	7835	-1.4	75.3	74.9	-0.4
4	3. 68	3. 69	0.3	7950	7804	-1.8	74.9	75.3	0.4
5	3. 64	3. 61	-0.8	7957	7807	-1.9	75.6	75.6	0.0
6	3.60	3.65	1.5	7975	7824	-1.9	75.1	75.7	0.6
7	3. 63	3. 73	2.8	7997	7838	-2.0	75.2	75.6	0.4
8	3.66	3. 55	-2.8	7950	7773	-2.2	75.8	74.5	-1.3
9	3. 54	3. 62	2.2 -0.7	7969	7812	-2.0 -1.9	75.6 75.5	76.2	-0.9
10 11	3. 67	3.64	0.3	7955	7800	-2.2	75.3	74.6 76.0	0.9
12	3. 61 3. 65	3. 62 3. 65	0.3	7973	7801 7792	-2.2	75.1	75.6	0.9
13	3. 62	3. 77	4.1	7947 7967	7760	-2.6	75.0	77.8	2.6
14	3. 62	3. 57	-1.4	7993	7766	-2.8	75.4	75.2	-0.2
15	3. 62	3. 62	0.0	8018	7822	-2.4	75.0	74.4	-0.2
16	3. 65	3. 62	-0.9	7960	7851	-1.4	75.3	74.8	-0.5
17	3, 67	3. 61	-1.7	8003	7870	-1.7	75.1	75.1	0.0
18	3. 66	3. 64	-0.7	7943	7813	-1.6	74.8	75.4	0.6
19	3. 63	3. 68	1.2	8024	7859	-2.1	75.3	76.1	0.8
20	3. 52	3. 67	4.2	7957	7769	-2.4	74.9	75.9	1.0
X-Bar	3.64	3.64	-	7974.22	7814.56	-	75.29	75.41	-
σ	0.04	0.05	-	28.46	31.14	-	0.29	0.82	-
QE File No. Time-out for function te or others (hours)		rs (hours)	Issued Date		Reported By		Approved By		
DG18FNL118		4724.33		2020/5/30		Loly.Wang		Tim.Yi	