

DECLARATION OF CONFORMITY

Blauberg Group adopted both MTTF and L10 international standards on motors with biggest loading impeller during company internal reliability testing in motors' design and development stage. It's available for relative fan models with smaller diameter impellers with lower speed.

No. MRT C-HRB203348/2019-00039

München

08/07/2019

Manufacturer's Name: Blauberg Ventilatoren GmbH

Manufacturer's Address: 52, Aidenbachstr, D-81379 München, Germany

Declare under sole responsibility that the motors,

Model Number: EC59AC230V40W, EC59AC115V40W, EC59DC310V40W

Marks: **Blauberg Motoren**

Reliability Testing Applied: 2019

Conforms to the following Motor Reliability Testing Specifications:

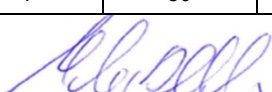
We hereby declare that L10 Expectancy: 70,000 hours minimum@ fan rated voltage and the temperature of 40°C, According to the equation for Weibull distribution, $MTTF = 7 \times L10 = 490,000$ hours. And we rely on a zero failure Weibull test strategy and accelerated testing technique, to determine the total test time (t) for verifying the above life estimation by the equations,

$$t = 1.036 \times MTTF \times [(Br;c) \div n]^{0.91} \div AF, \text{ and } AF = 2(TS-TU)/10$$

Where, (Br;c) is Poisson distribution factor with the failure number of r equal to 0 and the decimal confidence level of c equal to 0.90(90%), and

Stress/Elevated Temperature Ts (°C)	Unstress Temperature Tu (°C)	Acceleration Factor Af	Quantity of Test Devices n(pcs)	Poisson Distribution Factor Br;c	Required test time with zero failure t (hours)	Actual test time with zero failure t (hours)	Verified MTTF 40°C (hours)	Verified L10 40°C (hours)
60	40	4	30	2.303	2,512	3,000	50,000	7,142

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