

Specification

Flat Fan C9225H12BPLB2a-7



General Information

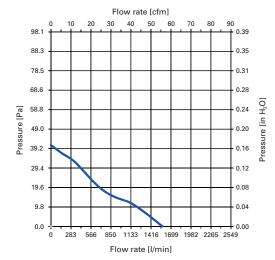
Item

Product type	Flat fan with integrated electronic motor driver		
Part no.	C9225H12BPLB2a-7		
Customer	N/A		
Project no.	N/A		
Modification	Standard product		

Features

- Static pressure 41 Pa, freeflow 1 580 I/min
- ullet 12 $V_{
 m DC}$ brushless DC-motor
- Frequency Generator
- Auto-Restart

Performance











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Technical Data

Material		Value			
Frame		Thermoplastic PBT (GF 30%), class UL94-V0			
Impeller		Thermoplastic PBT (GF 15%), class UL94-V0			
Lead wire		UL1007, AWG 24, 250±10mm, red (+), black (-), yellow (FG)			
Item	Value	Test Condition			
Rated voltage	12 V _{DC}	Measured by multi-meter with +/- 1 % error			
Operating voltage	7-14 V _{DC}	Measured by multi-meter with +/- 1 % error			
Rated speed	3000 rpm	Average reading, 5 minutes after power up (+/- 10 %)			
Input current	0.220 A	At rated voltage and free flow			
Input power	2.64 W	At rated voltage and free flow			
Free flow	1 580 l/min (55.78 CFM)	At rated voltage and zero static pressure (+/- 10 %)			
Static pressure	41 Pa (0.16 in-H ₂ O)	At rated voltage and zero air flow			
Operating temperature	-10 to 70 °C	At 45-65 % humidity			
Storage temperature	-40 to 90 °C	After 100 h storage keep for 24 h at 23-25 °C The product must maintain original specifications			
Insulation resistance	> 10 MΩ	At 500 V _{pc} between frame and (+/-) terminals			
Dielectric strength	600 V _{AC}	30			
Acoustical noise	36 dB(A) Weighted (B&K equipment)	At rated voltage, in free air; Background noise 17 dB(A) Measured at 1 meter from the fan and perpendicular to the direction of the airflow.			
Bearing system	2 ball bearings				
Weight	106.5 g				
Particular Tests					
Vibration test	In minimum packaging condition, fan motor withstands 0.2 mm movement of 55 Hz vibration for 30 minutes each towards: Up-down, right-left and back-forth.				
Drop test	In minimum packaging condition, motor withstands each one-drop of three faces from 30 cm distance high onto wooden board of 10 mm thickness.				
Life expectancy	Minimum 70 000 h at 30 °C @ 3600 rpm The life is defined as the time duration until the fan motor speed is decreased more than 30 % compared to its initial speed.				

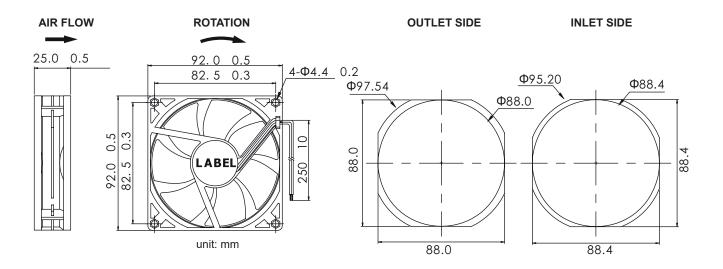
Protection

Product Features

Locked rotor protection	Fan will automatically re-start in about 5 seconds after motor is released from locked condition. No damage if positive and negative leads are reversed under maximum operating voltage conditions.		
Polarity protection			
Weather proofing	Stator, PCB and coils are varnished.		



Drawings

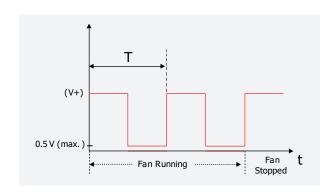


Rotation

Orientations

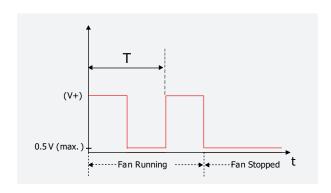
Direction of rotation	Clockwise (view on inlet)		
Mounting position	Any direction		

Electronic Functions



Open Collector Tachometer "FG" output voltage waveforms

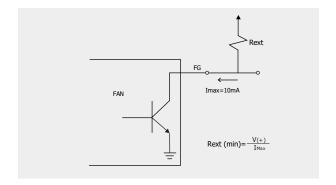
Function "FG" Tachometer Output YELLOW wire



Tacho Frequency RPM=60/2T=30 f (f=frequency)



Electronic Functions



Open Collector

Fan Rated	48 V	24 V	12 V	5 V
V (+) max.	57 V	27 V	14 V	6 V

Identification

Label





Handle in power-off conditions only! Read operating manual!



Please see separate accessories list or contact Micronel Sales for a full list of options and accessories.