

**Standards and Specifications
of****Model: FD8025B12W11-3R21****(with upgrade IC) (RoHS Compliance)****A. General Specification**

Item	Specification / Standard / Condition	
Customer's PN	Argus 500-041-10	
Outline Dimension	80 mm x 80 mm x 25 mm	
Bearing	Dual Ball Bearing	
Rated Voltage	DC 12 V	Tolerance: $\pm 10\%$
Starting Voltage	DC 7.0 V	1. Rated Voltage 2. 25°C, 65% RH
Rated Current	0.45 A	
Power Consumption	5.4 W	
Speed	4500 R.P.M.	1. Free Air 2. Rated Voltage 3. 25°C, 65% RH 4. Tolerance: $\pm 10\%$
Maximum Airflow	59.2 CFM	1. Rated Voltage 2. AMCA Standard 3. Rated Current
Maximum Static Pressure	8.5 mm-H ₂ O	
Noise Level	44 dB (A)	1. Rated Voltage 2. Measured in a Non-Echo Chamber 3. CNS 8753 Standard 4. ISO 3744 Test Condition
Fan Life	75,000 hrs	MTTF (Mean Time To Failure), Confidence Level 90%, 40°C
Number of Blade	7 Blades	
Number of Pole	4 Poles	
Rotating Direction	Counter-Clockwise	
Plastic Material: Blade, Housing, Bobbin	1. UL 94V-0 2. P.B.T. + 30% GF Black	
Lead Wire	AWG #24 for 3 wires, UL1007, length 300 mm.	Red: (+) Black: (-) Yellow: Tachometer wire
Connector	N/A	

B. Electrical Specification

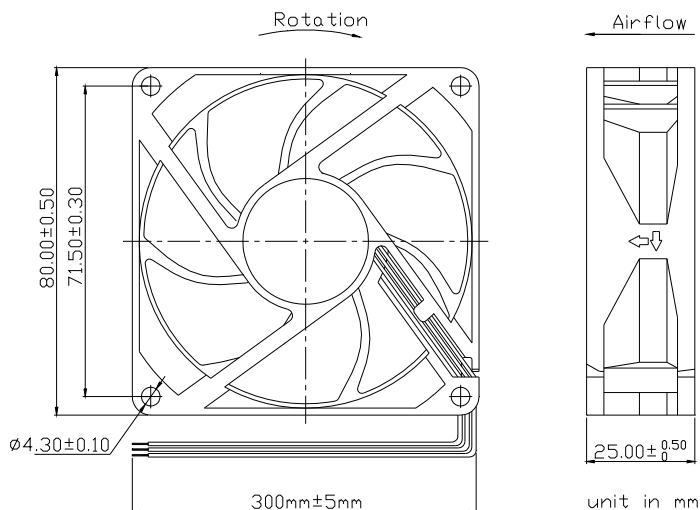
Item	Specification / Condition
Locked Rotor Protection	a. Auto power off after locked at rated voltage for 1 sec. b. After auto power off, circuit attempt to restart in 2-6 sec.
Polarity Protection	Circuit is protected when V _{CC} & GND are exchanged.
Insulation Resistance	10 m.Ω / between unshielded wire and frame at 500 VDC/min.
Dielectric Strength	5 mA Maximum. / Measured between lead wire + and frame at 500 VAC/min.

C. Environmental Specification

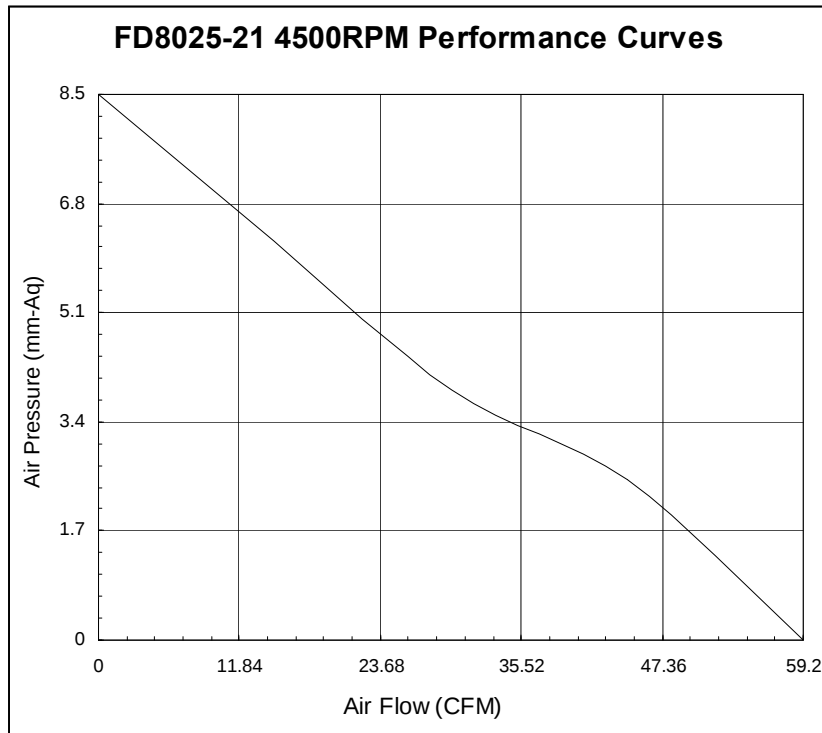
Item	Specification / Condition
Operating Condition	Temperature: $-10^{\circ}\text{C} \sim +70^{\circ}\text{C}$ Humidity: 35% ~ 85% RH
Storage Temperature	Temperature: $-40^{\circ}\text{C} \sim +80^{\circ}\text{C}$ Humidity: 35% ~ 85% RH
Humidity	Per MIL-STD-202F Method 103B Life: 96 hours Humidity: 95% Temperature: $+40 \pm 2^{\circ}\text{C}$
Thermal Shock	Per MIL-STD-202F Method 107D, Condition D
Packing Vibration Test	Packing condition: X, Y, Z 3 directions, 1.1G load vibration test for 30 min.
Packing Shock Proof Test	1 corner, 3 edges, 6 faces natural drop from 60cm high, packed

**D. Safety Approvals**

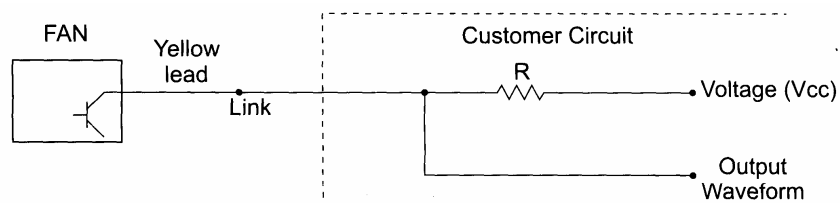
Safety Approval	File No.
UL	E194726
CUL	E194726
TUV	R2054644

E. Model Drawing

F. Air Flow Performance Curve



G. Tachometer (Speed Sensor)



** Please select "R" to make "Link" less than 10mA **

* Vcc: 30V MAX , Link: 10mA MAX

Output Waveform

