

Standards and Specifications
of
Model: FD9238B12W5-81-2RX
(Auto Restart Protection & IP54)

A. General Specification

Item	Specification / Standard / Condition	
Outline Dimension	92 mm x 92 mm x 38 mm	
Bearing	Dual Ball Bearing	
Rated Voltage	DC 12 V	
Operating Voltage	DC 8.00 V ~ DC 13.80 V	
Starting Voltage	DC 8.00 V	1. Rated Voltage 2. 25°C, 65% RH
Rated Current	0.40 A	
Actual Current	0.33 A	
Power Consumption	4.80 W	
Speed	3,200 R.P.M.	1. Free Air 2. Rated Voltage 3. Tolerance: ± 10% 4. 25°C, 65% RH, after 10 minutes
Maximum Airflow	81.70 CFM	1. Rated Voltage 2. AMCA Standard 3. Rated Current
Maximum Static Pressure	7.30 mm-H ₂ O	
Noise Level	44.20 dB (A)	1. Rated Voltage 2. Measured in a Non-Echo Chamber 3. CNS 8753 Standard 4. ISO 3744 Test Condition
Life	80,000 hrs	40°C, L10 at Conf. Level 90%, Rated Voltage
Net Weight	173 g	
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	UL 1007, 26 AWG	Red: (+) Black: (-)
Connector		

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. Ohm / 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

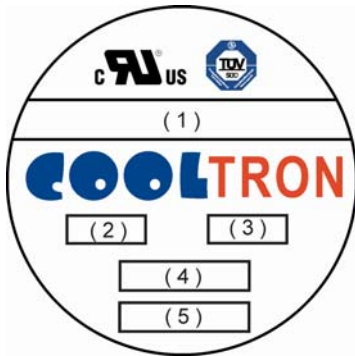
Item	Specification / Condition
Operating Condition	Temperature: -10°C ~ + 45°C Humidity: 15% ~ 90% RH
Storage Temperature	Temperature: -40°C ~ + 85°C Humidity: 15% ~ 90% RH
Humidity	Per MIL-STD-202F Method 103B Life: 96 hours Temperature: +40 ± 2°C
Thermal Shock	Per MIL-STD-202F Method 107D, Condition 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



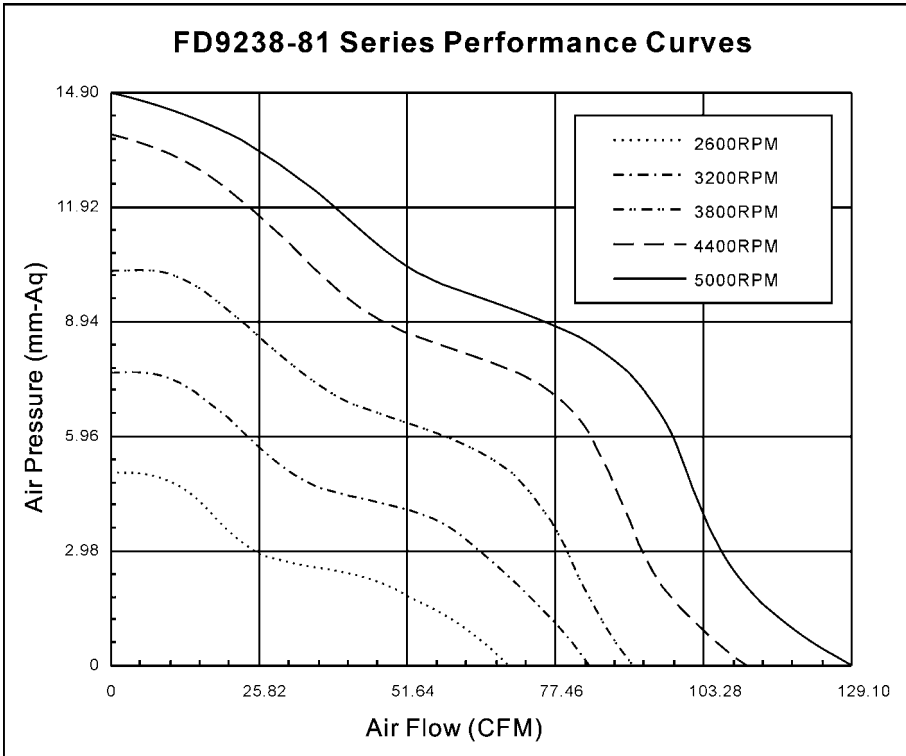
Safety Approval	File No.
UL	E194726
CUL	E194726
TUV	B 05 11 57907 004

E. Label Marking

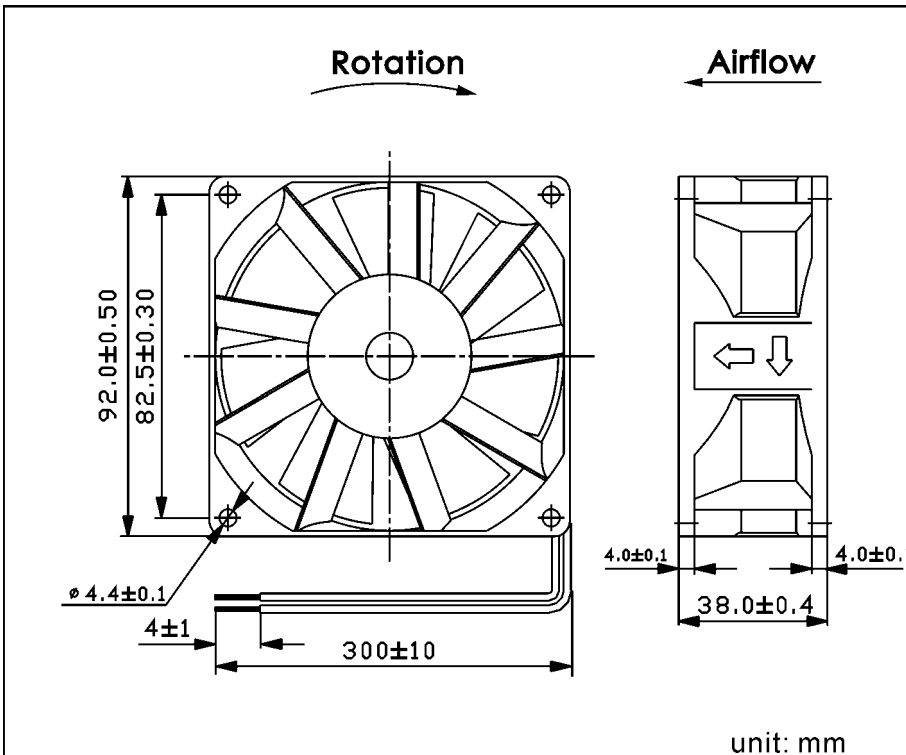


(1)	Model Number
(2)	Rated Voltage
(3)	Power Consumption
(4)	Bearing Type
(5)	Location

F. Air Flow Performance Curve



G. Model Drawing



H. Fan Photos