

Standards and Specifications of Model: FD1751B48W3-61-4M (Auto Restart + Alarm High + Thermistor)



A. General Specification

Item		Specification / Standard / Condition	
01	Outline Dimension	172 x 150 x 51 mm	
02	Bearing	Dual Ball Bearing	
03	Rated Voltage	DC 48 V	
04	Operating Voltage	DC 24.0 V ~ DC 55.2 V	
05	Starting Voltage	DC 24.0 V	
06	Rated Current (Max.)	0.50 A	1. 25 °C, 2. 65% RH
07	Actual Current	0.38 A	
08	Power Consumption	18.24 W (Max. 24.00W)	
09	Rated Speed	3400 R.P.M. ± 10%	1. Free Air 2. Rated Voltage 3. 25 °C, 65% RH 4. After 10 Min. Rotating.
10	Maximum Airflow	235.40 CFM	1. Rated Voltage 2. AMCA Standard 3. Rated Speed
11	Maximum Static Pressure	23.60 mm-H ₂ O	
12	Noise Level	58.10 dB (A)	1. Rated Voltage 2. Measured in a Non-Echo Chamber 3. CNS 8753 Standard 4. ISO 3744 Test Condition
13	Life Expectancy	70,000 Hrs. at 40°C	1. L10 at Conf. Level 90%, 2. Rated Voltage
14	Net Weight	735 Gram	
15	Number of Blade	5 Blades	
16	Number of Pole	4 Poles	
17	Rotating Direction	Counter-Clockwise	Looking at Rotor Side
18	Plastic Material: Housing, Blade	Housing: Plastic UL 94V-0 P.B.T. Blade: Plastic UL 94V-0 P.B.T.	
19	Lead Wire	UL Type #22 AWG	Red: (+) Blue: (-) White:(Alarm) Black (NTC)
20	Connector	Without	
21	Special Function	Auto Restart + Alarm High + Thermistor	

B. Electrical Specification

Item		Specification / Condition	
01	Locked Rotor Protection	✓	Safety Condition
		✓	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.
02	Polarity Protection	✓	a. Circuit is protected when VCC & GND are exchanged, b. The circuit won't be burned within 5 seconds.
03	Insulation Resistance	✓	10 m.Ohm / between unshielded wire and frame at 500 VDC/min.
04	Dielectric Strength	✓	5 mA Maximum. / Measured between lead wire (+) and frame at 500 VAC/min.

C. Environmental Specification

Item		Specification / Condition
01	Operating Condition	Temperature: -10°C ~ + 70°C Humidity: 35% ~ 85% RH
02	Storage Temperature	Temperature: -40°C ~ +70°C Humidity: 35% ~ 85% RH
03	Test of high & low Temperature	Test Circulation at -10°C & 70°C two times per 4 hours
04	Packing Vibration Test	Packing condition: X, Y, Z 3 directions, 1.1G load vibration test for 30 min.
05	Packing Shock Proof Test	1 corner, 3 edges, 6 faces natural drop from 60cm high, packed

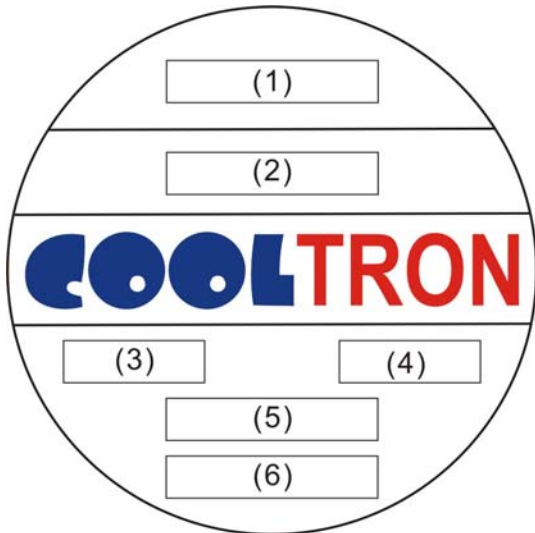
D. Safety Approvals



Safety Approval	File No.
CE	TB10088262
UL	E194726
CUL	E194726
TUV	R50048194

E. Label Marking

01: Fan Label Marking



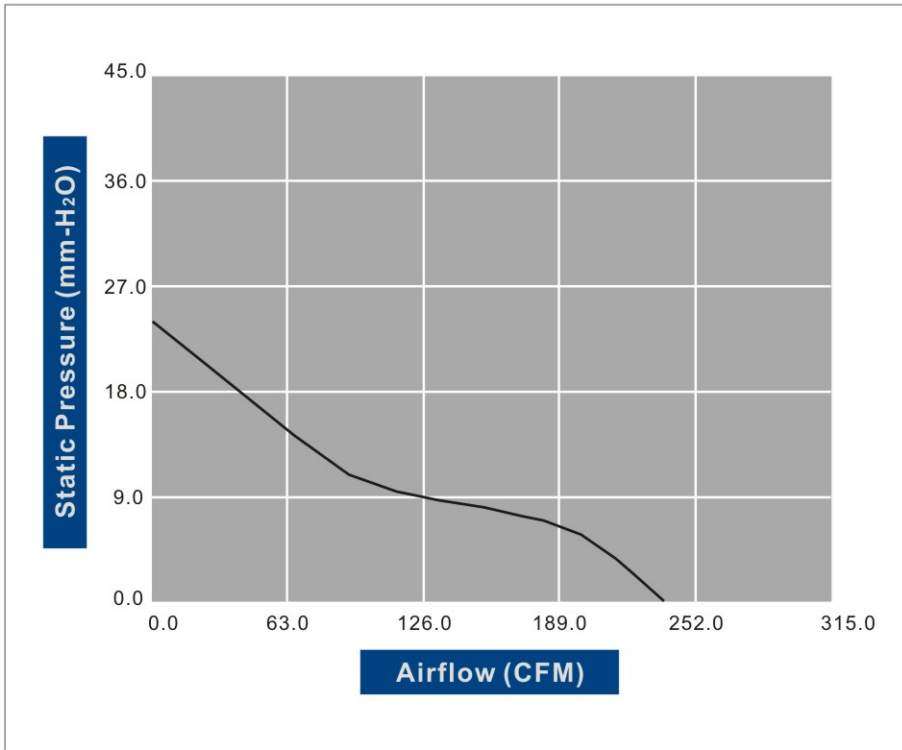
(1)	Safety Approval
(2)	Model Number & Appendix Code
(3)	Rated Voltage
(4)	Power Consumption
(5)	Bearing Type
(6)	Location

02: RoHS Label Marking:

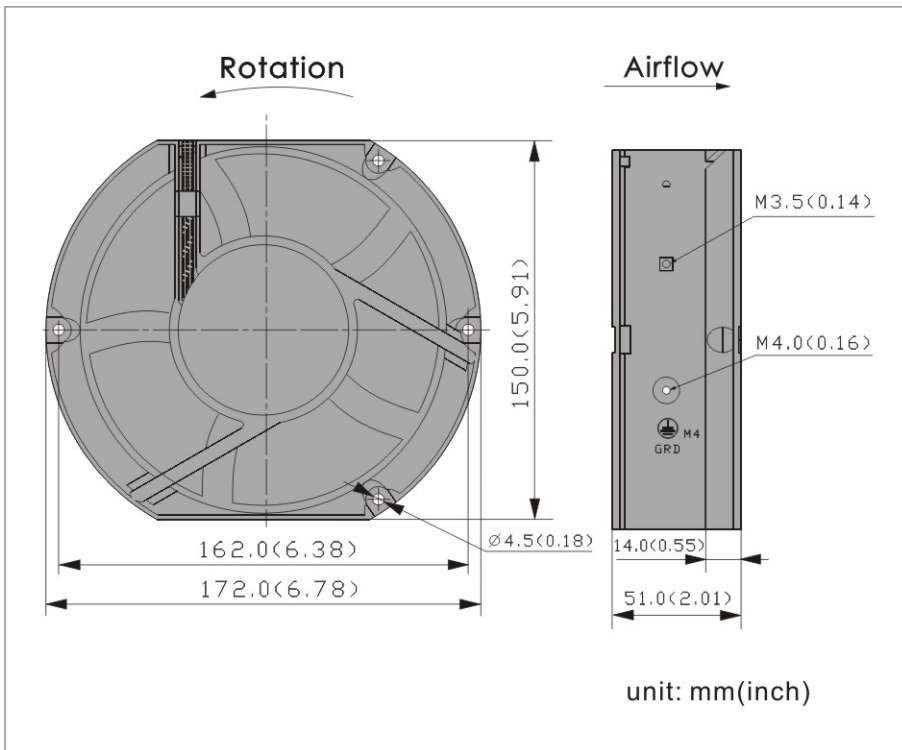


Label	Location
RoHS & Date Code	Fan Outlet Frame

F. Air Flow Performance Curve



G. Model Drawing



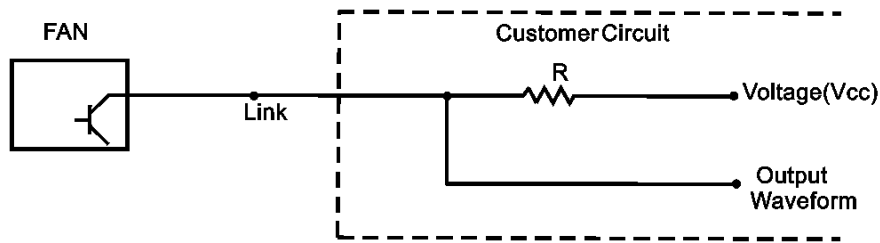
H. Fan Photos



FD1751-61

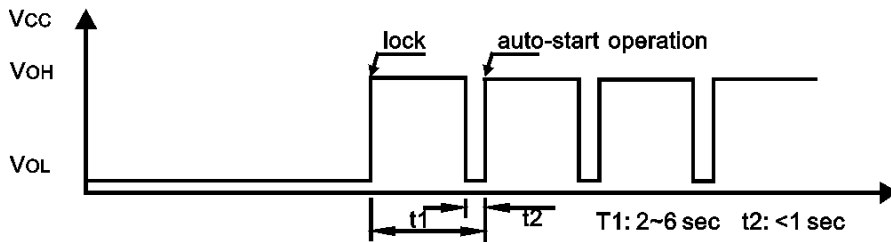
I. Sensor Circuit System:

Alarm High w/Auto restart



** Please select "R" to make "Link" less than 10mA * Vcc:30V MAX,Link:10mAMAX

Output Waveform



d Temperature Controlled Speed

