

Standards and Specifications
of
Model: FD4010B05W3-73-2NSC1
(mounting hold diameter 4.2mm)

A. General Specification

Item	Specification / Standard / Condition	
Outline Dimension	40 mm x 40 mm x 10 mm	
Bearing	Dual Ball Bearing	
Rated Voltage	DC 5 V	
Operating Voltage	DC 4.0 V ~ DC 5.5 V	
Starting Voltage	DC 4.0 V	1. Rated Voltage 2. 25°C, 65% RH
Rated Current	0.08 A	
Power Consumption	0.40 W	
Speed	4,200 R.P.M.	1. Free Air 2. Rated Voltage 3. 25°C, 65% RH 4. Tolerance: $\pm 10\%$
Maximum Airflow	4.60 CFM	1. Rated Voltage 2. AMCA Standard 3. Rated Current
Maximum Static Pressure	2.40 mm-H ₂ O	
Noise Level	20.50 dB (A)	1. Rated Voltage 2. Measured in a Non-Echo Chamber 3. CNS 8753 Standard 4. ISO 3744 Test Condition
Life	70,000 hrs	25 °C, L10 at Conf. Level 90%, Rated Voltage
Net Weight	17 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, 26AWG	Red: (+) Black: (-)
Connector	2510-2P connector 2.54mm (equivalent connector of Molex housing#22-01-3027 & terminal# 0008500113	

B. Electrical Specification

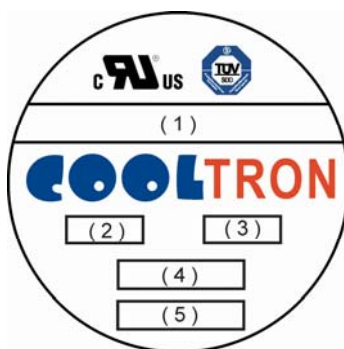
Item	Specification / Condition
Locked Rotor Protection	No damage done for a continuous 72 hours rotation lock at rated voltage.
Polarity Protection	Circuit is protected when V _{CC} & GND are exchanged.
Insulation Resistance	10 m. Ohm / between unshielded wire and frame at 500 VDC/min.
Dielectric Strength	5 mA Maximum. / Measured between lead wire + and frame at 500 VAC/min.

C. Environmental Specification

Item	Specification / Condition
Operating Condition	Temperature: -10°C ~ + 70°C Humidity: 35% ~ 85% RH
Storage Temperature	Temperature: -40°C ~ + 70°C Humidity: 35% ~ 85% 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

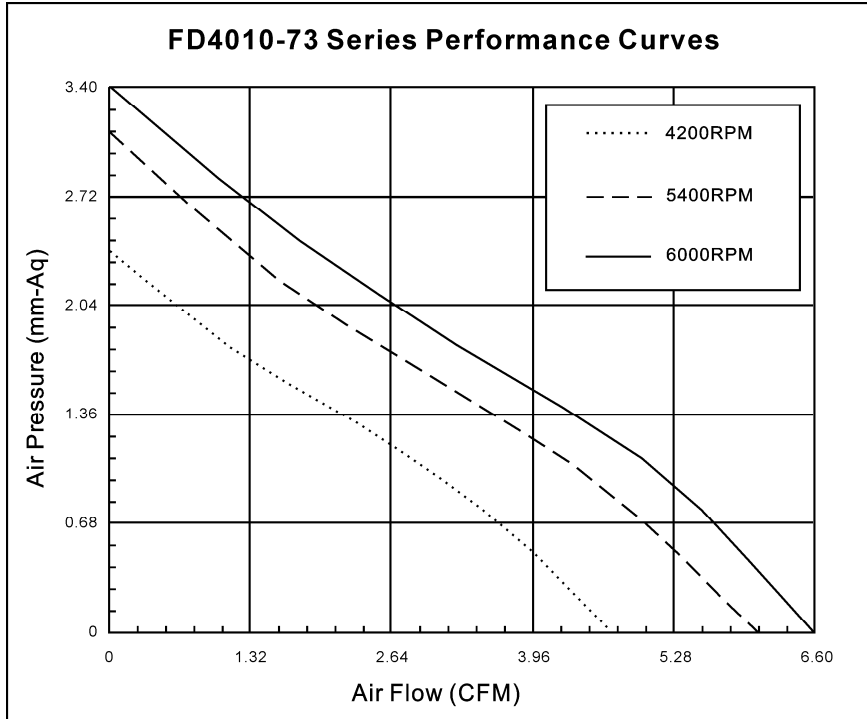
**D. Safety Approvals**

Safety Approval	File No.
UL	E194726
CUL	E194726
TUV	R50048194

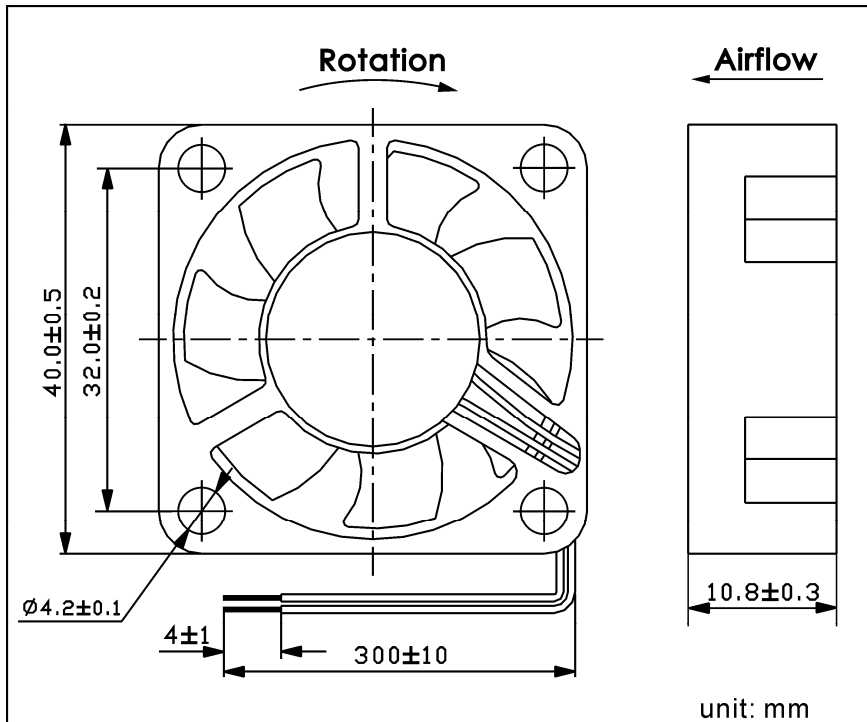
E. Label Marking

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

F. Air Flow Performance Curve

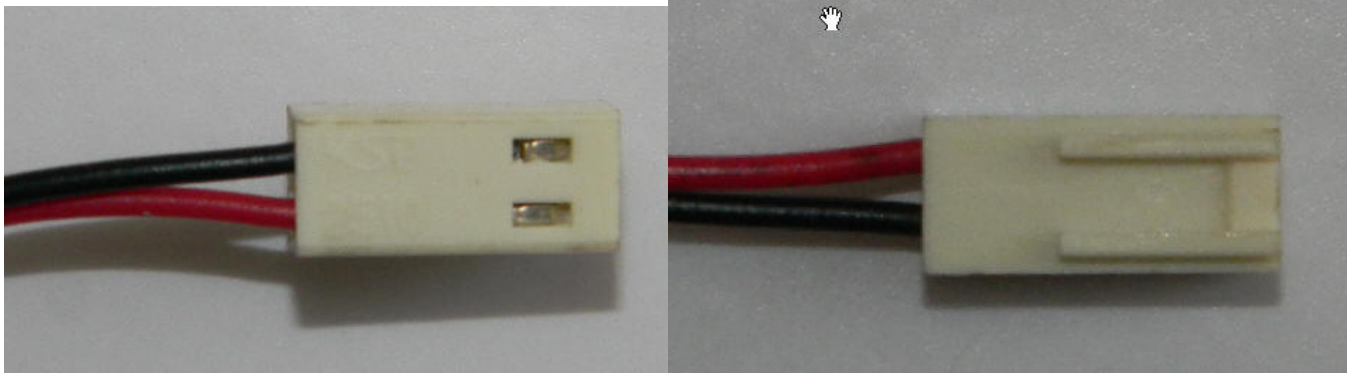


G. Model Drawing



With 2510-2P connector 2.54mm
(equivalent connector of Molex housing#22-01-3027 & terminal# 0008500113)

Wire position as follows: (Pin 1 --Black; Pin 2 --Red)



H. Fan Photos



FD4010-73