

Standards and Specifications
of
Model: FD3010B12W5-81-3FSC

A. General Specification

Item		Specification / Standard / Condition	
01	Outline Dimension	30 x 30 x 10	mm
02	Bearing	Dual ball bearing	
03	Rated Voltage	DC 12	V
04	Operating Voltage	DC 9.0	V ~ DC 13.8 V
05	Starting Voltage	DC 9.0	V
06	Rated Current (Max.)	0.11	A
07	Actual Current	0.08	A
08	Power Consumption (Max.)	0.96	W
09	Rated Speed	8,500	R.P.M. $\pm$ 15%
10	Maximum Airflow	3.00	CFM
11	Maximum Static Pressure	3.60	mm-H ₂ O
12	Noise Level	24.40	dB (A)
13	Life Expectancy	80,000	hrs at 40°C
14	Net Weight	7.8	Gram
15	Number of Blade	7	Blades
16	Number of Pole	4	Poles
17	Rotating Direction	Counter-Clockwise	Looking at Rotor Side
18	Plastic Material: Blade, Housing, Bobbin	Housing: Plastic UL 94V-0 P.B.T. Blade: Plastic UL 94V-0 P.B.T.	
19	Lead Wire	UL Type #28 AWG	Red: (+) Black: (-) Yellow:(Speed Sensor)
20	Connector	W/Amp Equivalent 3P connector & Cable Sleeve, Pb-Free	

B. Electrical Specification

Item		Specification / Condition	
01	Locked Rotor Protection	✓	Safety Condition
		X	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	✓	Circuit is protected when VCC & GND are exchanged, the circuit won't be burned within 10 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

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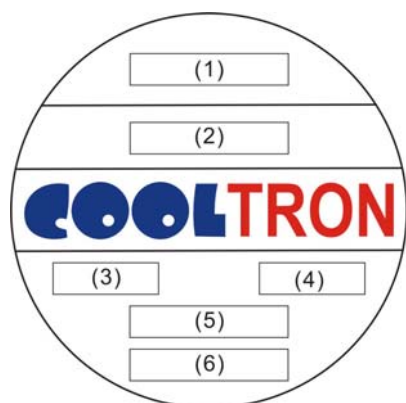
19929 Harrison AVE, city of Industry, CA 91789 Tel: 909-598-6033 Fax: 909-598-6043 www.cooltron.com

Item		Specification / Condition
01	Operating Condition	Temperature: -20°C ~ + 70°C Humidity: 15% ~ 90% RH
02	Storage Temperature	Temperature: -40°C ~ + 85°C Humidity: 15% ~ 90% 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

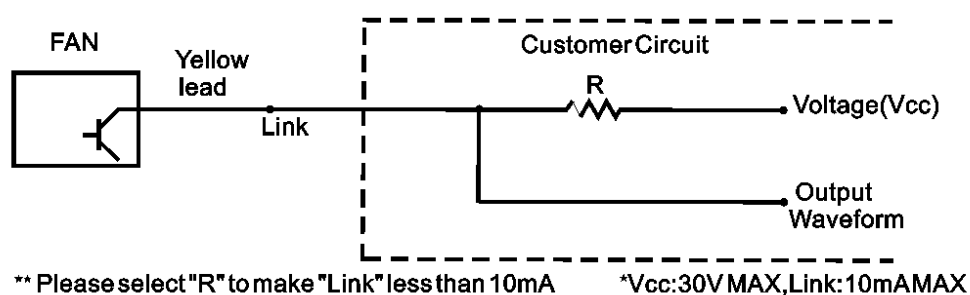
Safety Approval	File No.
UL	E194726
CUL	E194726
TUV	B 05 11 57907

E. Label Marking

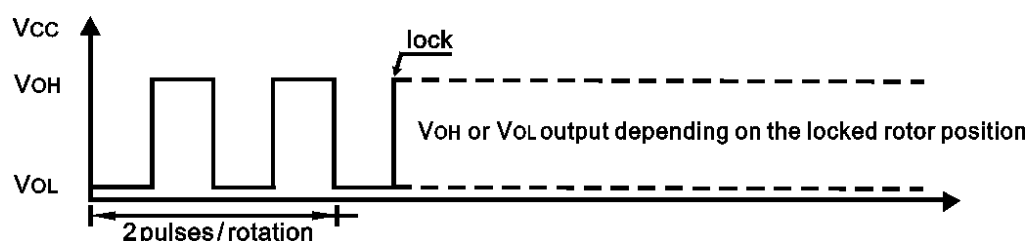


(1)	Safety Approval
(2)	Model Number & Appendix Code
(3)	Rated Voltage
(4)	Power Consumption
(5)	Bearing Type
(6)	Location

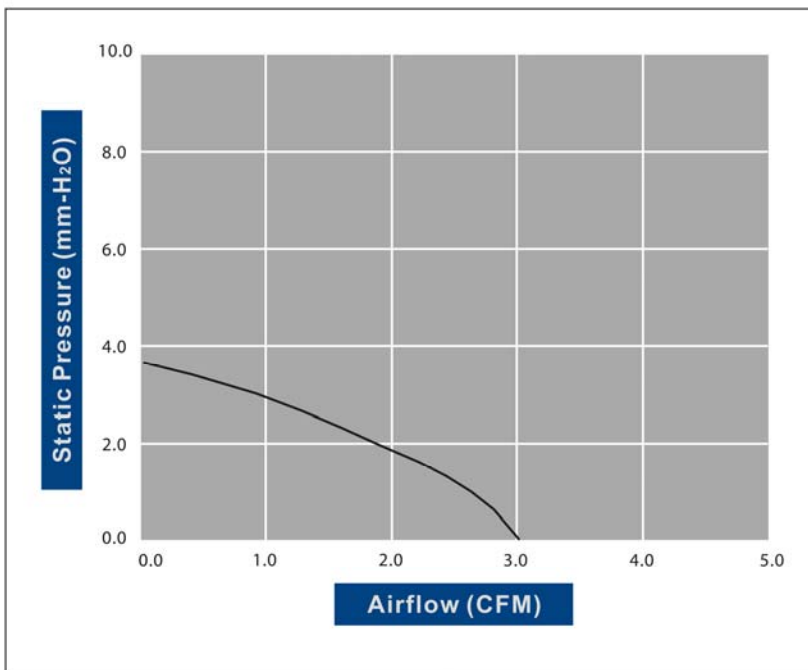
Speed Sensor or Tachometer



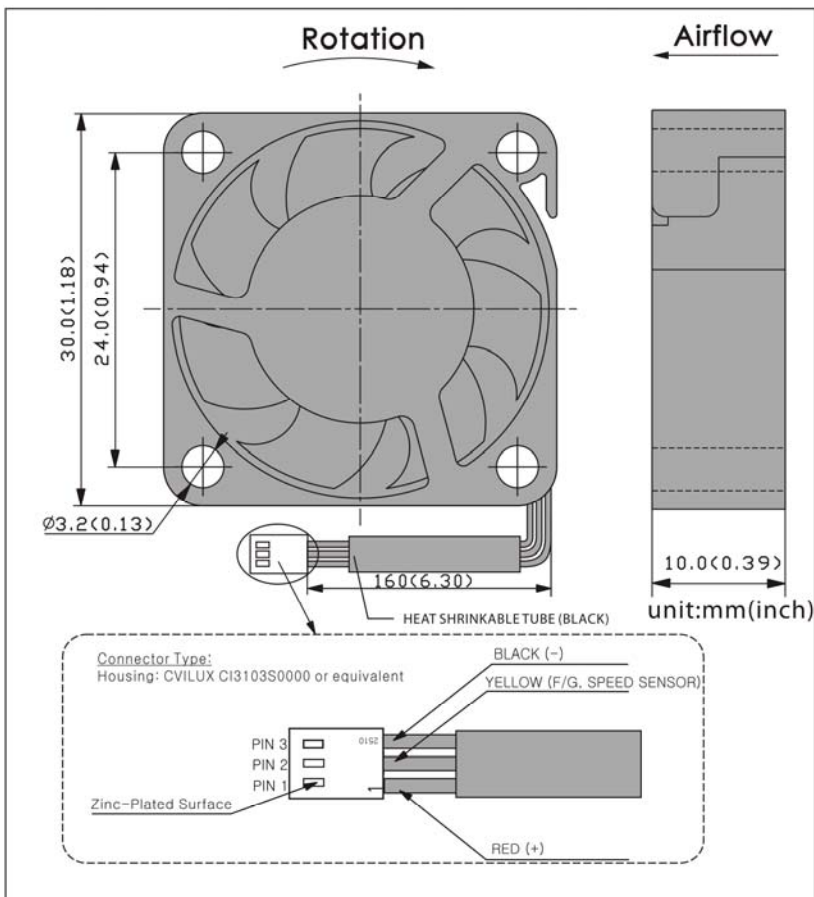
Output Waveform



F. Air Flow Performance Curve



G. Model Drawing



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H. Fan Photos



FD3010-81

