

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

### Standards and Specifications of Model: FD6025B24W7-73C-3RC1 (Speed Sensor + Auto Restart Protection)



#### A. General Specification

Item			Specification / Standard / Condition				
01	Outline Dimension	60 x 60 x 25	5 mm				
02	Bearing	Dual Ball Be	earing				
03	Rated Voltage	DC 24	V				
04	Operating Voltage	DC 12.0	V ~ DC 27.6	V ~ DC 27.6 V			
05	Starting Voltage	DC 12.0	V (At 25°C, Power C	wer ON / OFF)			
06	Rated Current (Max.)	0.50	A	4 5	4 5 4 17/16		
07	Actual Current	0.14	A		ated Voltage 5°C, 65% RH		
80	Power Consumption	3.36	W (Max.: 12.0W)	<b>-</b> 2. 2.	5 C, 05 % KH		
09	Rated Speed	6,000	RPM ± 10%	2. R	2. Rated Voltage		
10	Max. Air Flow	30.10	CFM		ated Voltage MCA Standard		
11	Max. Static Pressure	10.12	mm-H₂O		ated Current		
12	Noise Level(AVG.)	35.90	dB(A)	2. M	<ol> <li>Rated Voltage</li> <li>Measured in a Non-Echo Chamber</li> </ol>		
13	Life Expectancy	70,000	Hrs at 40°C				
14	Net Weight	60	Gram		-		
15	Number of Blade	7	Blades				
16	Number of Pole	4	Poles	Poles			
17	Rotating Direction	Counter-Clo	Counter-Clockwise		Looking at Rotor Side		
18	Material:		Housing: Plastic UL 94V-0 P.B.T. Blade: Plastic UL 94V-0 P.B.T.				
19	Lead Wire	UL Type #26 AWG, 325mm ±15mm		m	Red: (+) Black: (-) Blue:(Speed Sensor)		
Е	Connector	With Molex Housing#39-01-4040 & Terminal#39-00-0184 or equivalent					
21	Special Function	Speed Sensor + Auto Restart Protection					

### **B.** Electrical Specification

Item		Specification / Condition			
	Locked Rotor Protection	✓	Safety Condition		
01		√	<ul><li>a. Auto power off after locked at rated voltage for 1 sec.</li><li>b. After auto power off, circuit attempt to restart in a few seconds.</li></ul>		
02	Polarity Protection	✓	Circuit is protected when VCC & GND are exchanged, the circuit won't be burned within 5 seconds.		
03	Insulation Resistance	√	10m.Ohm / between unshielded wire and frame at 500 VDC/min.		
04	Dielectric Strength	√	5mA Maximum. / Measured between lead wire (+) and frame at 500 VAC/min.		

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C. Environmental Specification

Item		Specification / Condition			
01	Operating Condition	Temperature: -10°C ~ + 70°C			
		Humidity: 15% ~ 60% RH			
02	Storage Temperature	Temperature: -40°C ~ + 70°C			
02		Humidity: 15% ~ 60% RH			

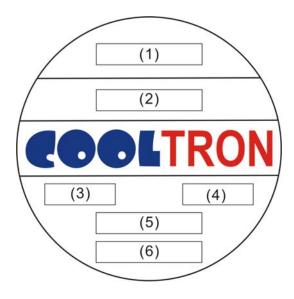
### D. Safety Approvals



Safety Approval	File No.
CE	TB10088262
UL	E194726
CUL	E194726

### 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:



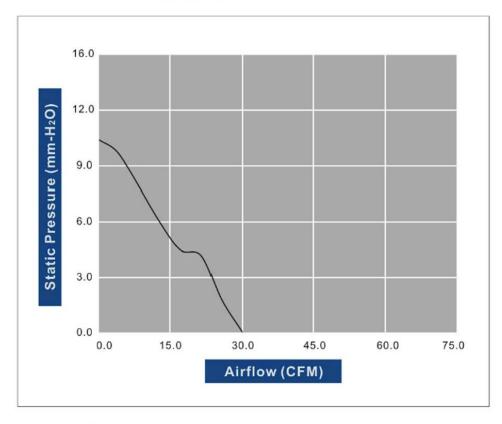
Label	Location		
RoHS & Date Code	Fan Outlet Frame		

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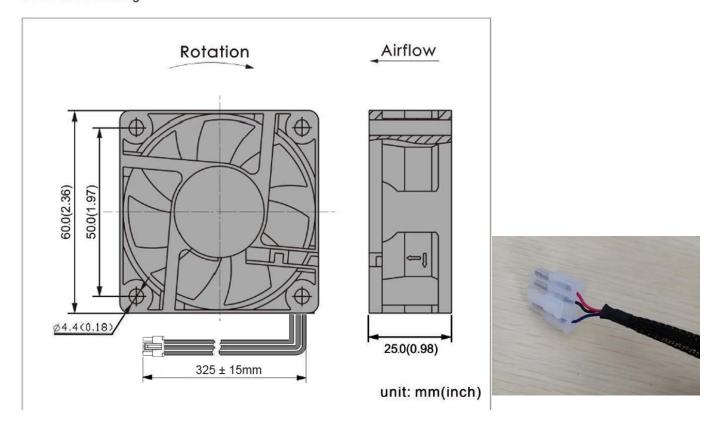
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### F. Air Flow Performance Curve



### G. Model Drawing

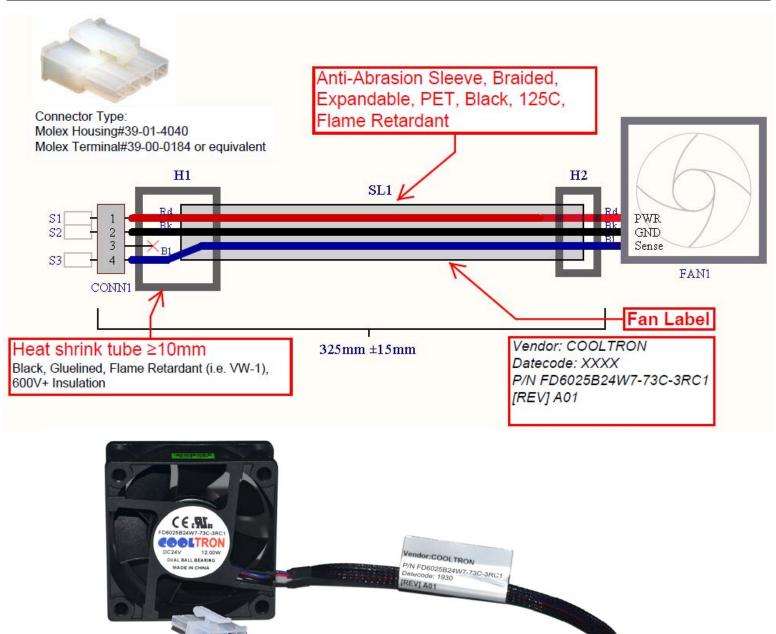


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Quantity	Designator	Description	Manufacturer	(Manufacturer's Part #)	Notes
1	CONN1	Connector, Receptacle, 4 pin inline, Molex 39-01-4040	Molex Inc	39-01-4040	
1	FAN1	FAN, AXIAL, 24VDC, 60x60x20mm	Cooltron	FD6025B24W7-73C-3RC1	
3	S1, S2, S3	CONNECTOR, SKT, MINIFIT JR, 22-26AWG, 9A,	Molex Inc	39-00-0184	
		30GOLD			
2	H1, H2	Heat Shrink, Black, Gluelined, Flame Retardant (i.e.			Must meet specifications listed in Description.
		VW-1), 600V+ Insulation			Heatshrink to be chosen appropriately based
					upon heatshrink recovered diameter and
					cable/wire size used.
1	SL1	Anti-Abrasion Sleeve, Braided, Expandable, PET,			Must meet specifications listed in Description.
		Black, 125C, Flame Retardant			Sleeving to be sized appropriately relative to
					wire bundle size.



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### H. Fan Photo









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### **REMARKS**

- 1. COOLTRON will not assume responsibility for the performance of the products if the application conditions fall outside the parameters stated forth in this specification.
- 2. A written request should be submitted to COOLTRON prior to approval if abnormality and deviation from this specification is required.
- 3. Please be cautious when fan is being exercised or handled. Damages may be resulted when apply pressure to the impeller or hold the fan by the lead wires or drop the fans to the production platform.
- 4. With exception of suitability of some particular designs, any failure and problems regarding safety of the product caused by the introduction of powder, droplets of water or encroachment of insert in the hub are not guaranteed.
- 5. All general specifications and quality values are measured under condition of free air and fan vertical set up. COOLTRON highly suggests practicing a test when fan apply to a special application.
- 6. COOLTRON fans are not suitable to be used in an environment that contains aggressive or corrosive fluids.
- 7. Always ensure that fans are stored according to the storage temperatures specified. Do not store in an environment with a high humidity level. If the fans were stored for longer than 6 months, it is highly recommended to apply functional testing before shipping.
- 8. Except for the feature of the Lock Rotor Protection specifically stated, this feature is not applied to all fans. COOLTRON highly suggests not to stop the impellers of the working fans such interruption will cause adverse effect.
- 9. During installation, please be cautious. COOLTRON is not responsible for any excess resonance, vibration and subsequent noise caused by incorrect mounting of fans.
- 10. During testing it is important to consider safety at all times. A suitable guard should be fitted to the fan to prevent personal injury.
- 11. All test environments are conducted under the condition of relative (ambient) temperature and humidity at 25°C, 65%RH. The test result stated above is effective only for unique fan performance.
- 12. The above conditions are examples of extreme application. However they are very important and should receive top priority.

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