

PRODUCT SPECIFICATION SHEET

CUSTOMER:	
CUSTOMER MODEL NO .:	
COOLTRON MODEL NO .:	FD1238B12W3-62-2R1
DESCRIPTION:	DC Fan, 120x120x38mm, 12VDC,
	2900RPM, Dual Ball Bearing
	No Connector.
	1/00
EDITION:	<u>V02</u>
ISSUE DATE:	2/23/2021

Products will meet the specifications stated on this data sheet for all future production orders unless a revision has been approved by both parties.

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Product Specification - Revised Record

Rev.	Changes	Date
V01	First Time Issue	8/28/2017
V02	 Strip length of the black wire to be 10.9mm; The red wire strip length remains the same at 5mm (see model drawing) ⇒ So change the part number from FD1238B12W3-62-2R to FD1238B12W3-62-2R1 	2/23/2021

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Standards and Specifications of Model: FD1238B12W3-62-2R1 (Auto Restart Protection)



A. General Specification

Item Specification / Standard / Condition		Standard / Condition		
01	Outline Dimension	120 x 120 x 38 mm		
02	Bearing	Dual Ball Bearing		
03	Rated Voltage	DC 12	V	
04	Operating Voltage	DC 6.0	V ~ DC 13.8	V
05	Starting Voltage	DC 6.0	V (At 25°C, Power C	DN / OFF)
06	Rated Current (Max.)	0.58	А	
07	Actual Current	0.58	А	 − 1. Rated Voltage − 2. 25°C, 65% RH
08	Power Consumption	6.96	W (Max.: 6.96W)	2. 20 0, 00 /0 111
09	Rated Speed	2,900	RPM ± 10%	 Free Air Rated Voltage After 10 Min. Rotating.
10	Max. Air Flow	130.60	CFM	1. Rated Voltage 2. AMCA Standard
11	Max. Static Pressure	7.90	mm-H ₂ O	3. Rated Current
12	Noise Level(AVG.)	43.30	dB(A)	 Rated Voltage Measured in a Non-Echo Chamber ISO 3745 Test Condition
13	Life Expectancy	70,000	Hrs at 40°C	 L10 at Conf. Level 90% Rated Voltage
14	Net Weight	290	Gram	
15	Number of Blade	7	Blades	
16	Number of Pole	4	Poles	
17	Rotating Direction	Counter-Clockwise Looking at Rotor Side		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 #24 AWG		Red: (+) Black: (-)
20	Connector	Without		
21	Special Function	Auto Restart	Protection	

B. Electrical Specification

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

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C. Environmental Specification

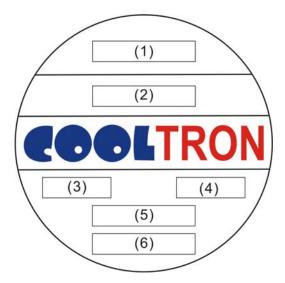
	Item	Specification / Condition
01	Operating Condition	Temperature: -10°C ~ + 70°C
Of Operating Condition	Humidity: 35% ~ 85% RH	
02 Storage Temperature	Temperature: -40°C ~ + 70°C	
	Humidity: 35% ~ 85% RH	

D. Safety Approvals

		CE	c SL ° us	TÜV Rheinland
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

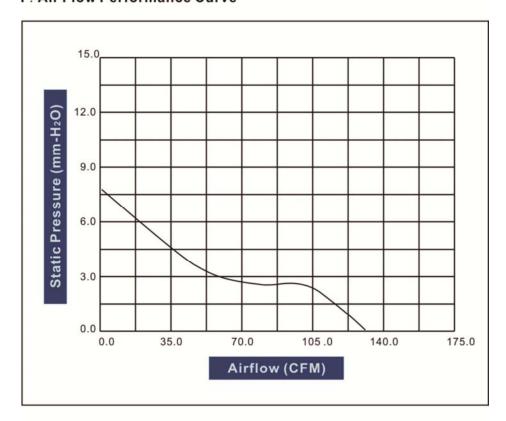
02: RoHS Label Marking:



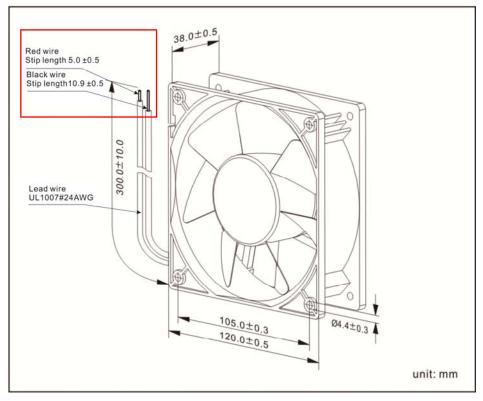
Label	Location
RoHS & Date Code	Fan Outlet Frame

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G. Model Drawing



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H. Fan Photos







FD1238-62

COLTRON Industrial Supply, Inc.

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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.