



DYNATRON CORPORATION

TOP MOTOR TECHNOLOGY(HUIZHOU)CO,LTD

Specification for Approval

Customer:		
Model Number:	L33	
Part Number:	/	
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Customer Approval		
Approval:	Check:	
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1. SCOPE

This specification defines the electrical and mechanical characteristics of the □ AC / ■ DC Brushless Pump (■ Liquid State/ □ 2-Balls Bearing), which is carefully designed and manufactured for your special needs by Dynatron Corporation.

2. ELECTRICAL CHARACTERISTICS(Pump)

Items		Description
1.	Rated Voltage	DC 12V
2.	Start Voltage	DC 7V
3.	Operating Voltage	10.2 V ~ 13.8 V
4.	Flow – (minimal value)	3.19LPM (0.86GPM)
5.	Input Current	0.42A (Max.)
6.	Input Power	5.04W
7.	Speed	4200RPM ± 10 %
8.	Insulation Resistance – Between Frame and Terminal	10 M ohm at DC 500 V
9.	Dielectric Strength – Between Frame and Terminal	5 mA (Max.) @ AC 500 V 60 Hz 1 min.
10.	Life – Continuous operating under normal temperature (40 °C or 104 °F)	70,000 hours
11.	Rotation	Anticlockwise Air Discharged
12.	Autorestart Time	3-5sec
13.	Lead Wires	UL 2468, AWG 26 or Equivalent “-”: Black; “+”: Black; “S” Black;
14.	Acoustical Noise	26.5dBA(Max27 dBA)



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1. SCOPE

This specification defines the electrical and mechanical characteristics of the □ AC / ■ DC Brush Less (■Liquid State /□2-Balls Bearing) axial flow fan, which is carefully designed and manufactured for your special needs by Dynatron Corporation.

2. ELECTRICAL CHARACTERISTICS

Items		Description		
1.	Rated Voltage	DC 12 V		
2.	Operating Voltage	10.8V~13.2V		
3.	PWM Frequency 25KHz	Duty Cycle D=20%	Duty Cycle D=50%	Duty Cycle D=100%
4.	Start Voltage	8V		
5.	Air Flow – At rated voltage zero static pressure (minimal value)	10.088m ³ / min (35.52CFM)	19.096m ³ / min (67.24CFM)	32.83m ³ / min (115.61CFM)
6.	Static Pressure – At rated voltage At zero air flow	1.39mm -H ₂ O (0.055inch-H ₂ O)	5.97mm -H ₂ O (0.236inch-H ₂ O)	34.06mm-H ₂ O (1.341inch-H ₂ O)
7.	Input Current (Max.)	0.1A	0.46A	2.06A
8.	Speed	2400RPM±10%	4800RPM±10%	8000RPM±10%
9.	Acoustical Noise	25.63dBA	47.85dBA	64.4dBA
10.	Input Power	1.2W	5.52W	24.72W
11.	Insulation Resistance – Between Frame and Terminal	10 M ohm at DC 500 V		
12.	Dielectric Strength – Between Frame and Terminal	5 MA (Max.) @ AC 500 V 60 Hz 1 min.		
13.	Life – Continuous operating under normal temperature (40 °C or104 °F)	70,000 hours		
14.	Rotation	Anticlockwise Air Discharged		
15.	Lead Wires	UL 1007,AWG 26 or Equivalent “-”: Black; “+”: Yellow;“s”: Green; “PWM”: Blue.		



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2. MECHANICAL CHARACTERISTICS

Items		Description
1.	Dimension	Display as Drawing
2.	Frame	PBT UL94V-0 (Black GP)
3.	Impeller	PBT UL94V-0 (Black GP)
4.	Frame (Pump)	PPS UL94V-0 (Black GP)
5.	Impeller(Pump)	PPS UL94V-0 (Black GP)
6.	Bearing System	Liquid State
7.	Weight	/

3. ENVIRONMENTAL

Items		Description
1.	Operating Temperature	- 10 °C ~ + 65 °C (65 %RH)
2.	Storage Temperature	- 30 °C ~ + 70 °C (65 %RH)
3.	Vibration Test	Displacement Amplitude: 0.75mm(Equivalent 10G) Frequency Range:10Hz<->55Hz/30SEC. Linear Scanning 120 Cycle Endurance Timer Per Axis:30Min. Orientation:X,Y,Z.
4.	Drop Test	Motor withstands one free body drop from 30 cm in high onto 10 mm thickness of wooden board for each of the three faces in minimum packing condition.
5.	Acoustic Noise	25.63/47.85/64.4dBA – Curve (26.13/48.35/64.9Max) Measuring Condition – Under rated voltage in semi-anechoic chamber equipment sound level meter. (Figure A.)

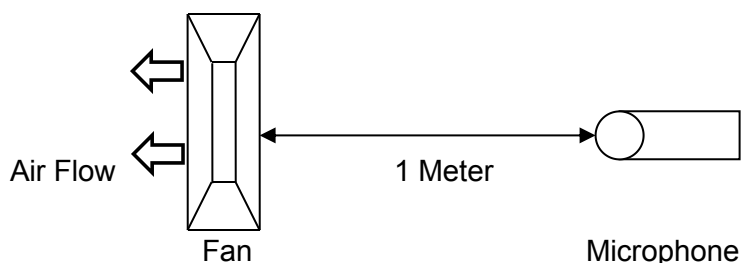


Figure A – Noise Level is measure at rated voltage in anechoic chamber in free air as above.



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4. PROTECTION

Items		Description
1.	Polarity Protection	For polarity error connection to power, the circuit withstands reversed connection between positive and negative leads.
2.	Locked Rotor Protection	Motor winding protects the motor from damage in 72 hours of locked rotor condition at rated voltage.



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5. PROTECTION

Items		Description
1.	Polarity Protection	For polarity error connection to power, the circuit withstands reversed connection between positive and negative leads.

6. ATTACHMENTS

6.1. Product Dimension



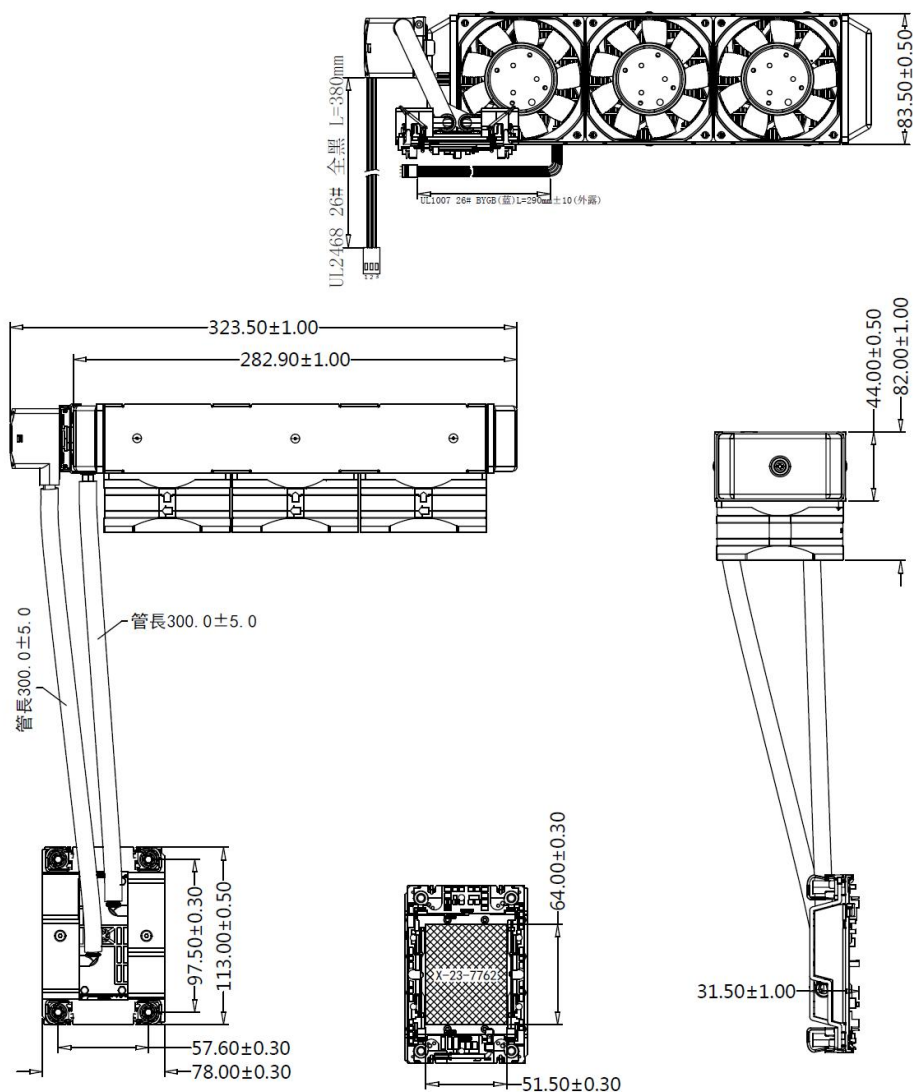
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6.1. Product Dimension

DIMENSIONS:



2.Fan Note :

1. Lead Wire: UL1007#26AWG

PIN 1: Black Wire ----- Ground

PIN 2: Yellow Wire ----- Power

PIN 3: Green Wire ----- Signal

PIN 4: Blue Wire ----- Signal

2. Connector: 2510-4PIN or Equivaient

1.PUMP Note :

1. Lead Wire: UL2468#26AWG

PIN 1: Black Wire ----- Ground

PIN 2: Black Wire ----- Power

PIN 3: Black Wire ----- Signal

2. Connector: 2510-3PIN or Equivaient