



Comair Rotron Specification Sheet

Specification Date: Aug 02, 2024

Version: 00

COMAIR ROTRON PART NUMBER:
COMAIR ROTRON MODEL NUMBER:

17002174A
DDE892824Z1S2X-E3

A.) MOTOR:

RATED VOLTAGE:	24 Vdc
OPERATING VOLTAGE RANGE:	16 Vdc – 32 Vdc
LOW-START VOLTAGE:	16 Vdc
RUNNING CURRENT:	7.0 Amps
LOCKED ROTOR CURRENT:	9.0 Amps
RATED POWER:	168 Watts
NOMINAL SPEED:	3100 RPM $\pm$ 10% (At Free Delivery)
START UP TIME:	8 Seconds Maximum
MOTOR TYPE:	Brushless DC
MOTOR PROTECTION:	By Integrated Circuit, Fuse
LOCKED ROTORT PROTECTION:	Electronic
POLARITY PROTECTION:	Yes
AUTOMATIC RESTART CAPABILITY:	By Integrated Circuit
ROTATION:	Clockwise when viewed from Inlet

B.) MECHANICAL

DIMENSIONS:	227mm Dia. x 71mm (8.94" Dia. x 2.80") <i>Figure 1</i>
WEIGHT:	1.60 Kg (3.53 Lbs.)
BEARING TYPE:	Ball Bearing, Permanently Lubricated, Shielded
MOTOR BASE:	Die Cast Aluminum
PROPELLER:	Metal, plated



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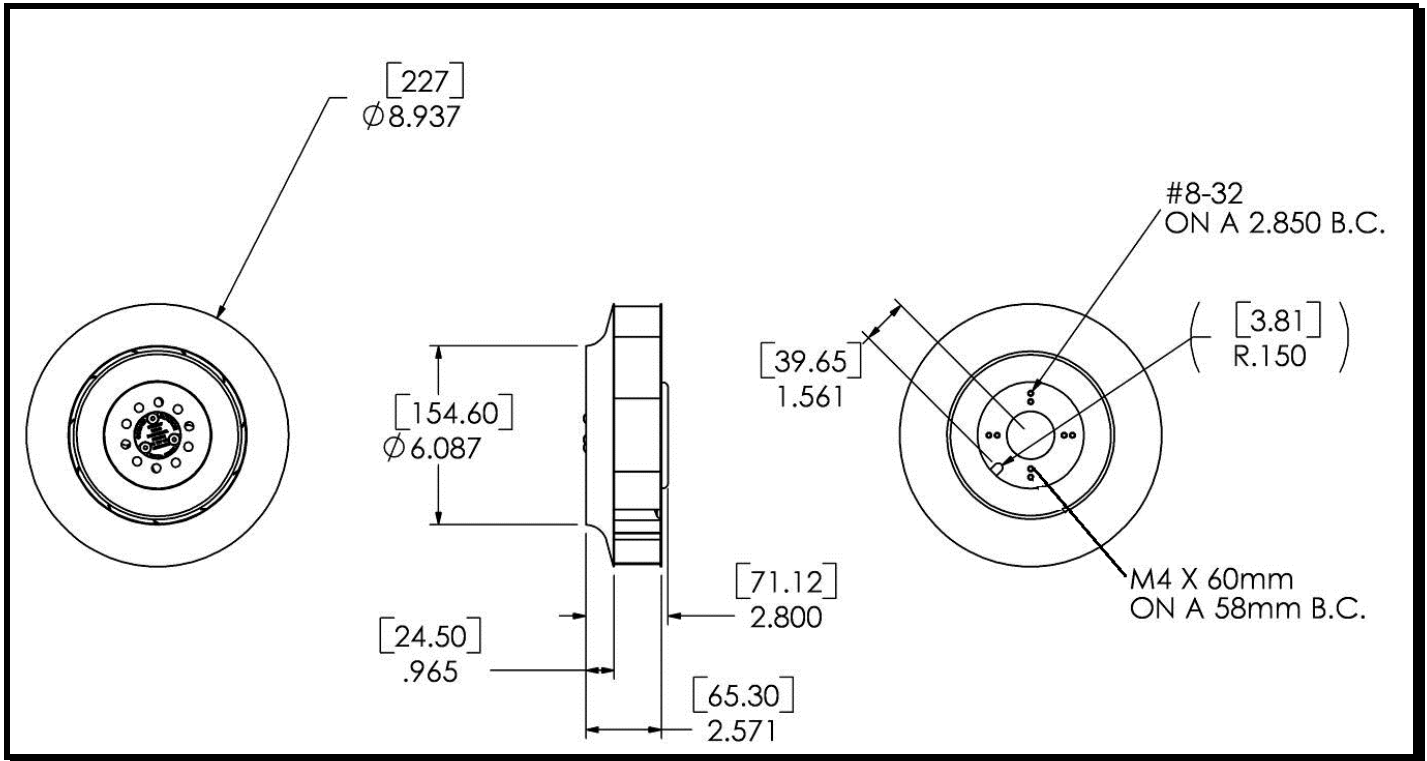


Figure 1

C.) ADDITIONAL FEATURES

TACHOMETER OUTPUT:

Open Collector

5 mA max.

Vcc: 32 Vdc max

Pulses per Revolution: 3

Isolated: No

SPEED CONTROL:

PWM: 200 ~ 2 KHz, Open Collector

<10% Duty: Off

10%~95% Duty: Linear Ramp

>95% Duty or Open Lead Wire: Full Speed

D.) ENVIRONMENTAL

OPERATING TEMPERATURE:

-10°C to +70°C

STORAGE TEMPERATURE:

-40°C to +85° C, 65% ± 20% RH

HUMIDITY:

5% to 95% RH, non-condensing

VIBRATION:

3G's (20 to 200 Hz)

Environmental Shield:

Type 3(IP68)



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E.) PERFORMANCE CHARACTERISTICS

AIR FLOW:

665 CFM $\pm$ 10%
(Measuring at zero static pressure)

STATIC PRESSURE:

2.53 Inches of H₂O
(Measuring at zero air flow)

ACOUSTIC LEVEL:

76.1 dBA
(Freely Suspended at 1 meter per
ANSI S12.11-1987)

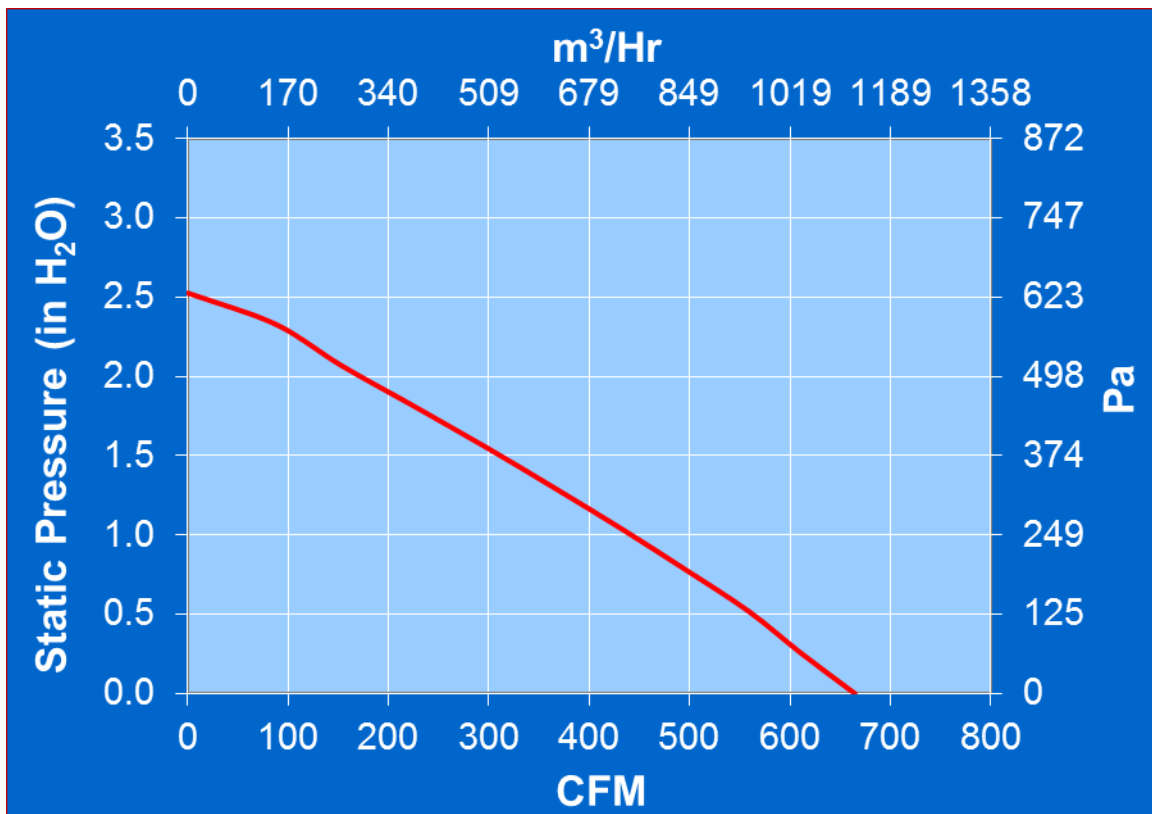


Figure 2



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F.) TERMINATION

LEADWIRES:

12" $\pm$ 1" Lead wires

16 AWG, UL 1007 Style

(From the edge of the motor base to the tip of the lead wires.)

COLOR DESIGNATION:

Red – Power

Black – Return

Blue – Tachometer Output

Yellow – PWM speed control

G.) RELIABILITY

This fan is designed for continuous duty life of 48,000 Hours at 40°C, (L10)

H.) SAFETY

UL, CUL, CE

I.) Flammability

The blower including all components meets an UL94V-0 rating or better.

Notes:

All parameters will perhaps fluctuate with the speed tolerance by $\pm$ 10%.