ROTRON / AMETEK®

Rotron MINIMAX®- DC Small Vaneaxial Fans

Small Vaneaxial Fans

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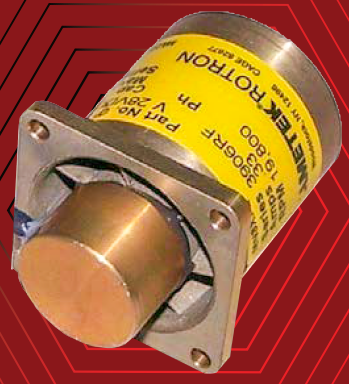
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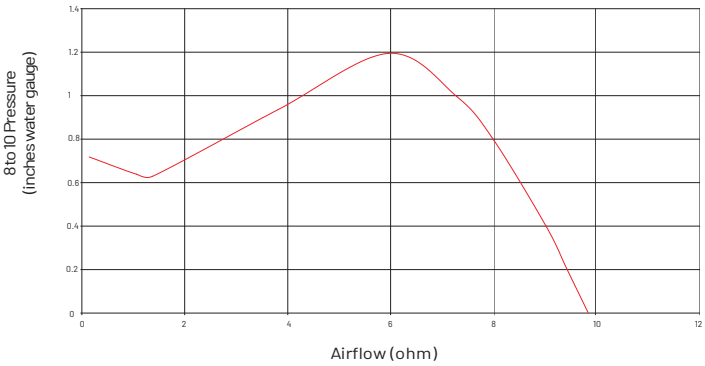


General Small Vaneaxial Information

Small Vaneaxial Fans are compact, high-speed fans with axial airflow. The impeller and guide vanes are of airfoil configuration for maximum aerodynamic efficiency and minimum acoustical noise.
These fans are designed for use in tightly packaged spot cooling applications where size and weight must be held to an absolute minimum, where reliability is critical, and where high heat loads must be dissipated with cooling air.
Small Vaneaxial Fans are available with lead wires, terminal blocks and MS connectors.

Rotron MINIMAX®- AC

Nano III Series: Maximum Performance Curve



*Individual Performance Curve Characteristics Available Upon Request



General

- Physical envelope: 1.30" diameter x 1.76" L1
- Weight: approximately 2 oz
- Specially designed for spot cooling of electronics
- and optics
- Custom mounting configurations are available2
- (including but not limited to; flanges or servo rings
- and synclamps)
- 28 volt DC input power
- Integrated brushless DC electronic drive

[1]See specific part-number drawing for complete product dimensions
[2]Please contact the Application Engineering Department for further information

Materials and Finishes

- Aluminum components finished with either Mil-C-
- 5541 Type I or Type II finish, as requested
- Corrosion-resistant stainless steel shaft and
- hardware
- Impeller runs on two high-precision, doubleshielded,
- stainless steel ball bearings (ABEC
- Class 5) with an integral lubricant reservoir for a
- long, maintenance-free life
- Motors use either Class F or Class H insulation for
- continuous high temp. operational capability

Options/Accessories

- Custom Paint Options Available

AC Line Powered Units [1]

- See standard Rotron Minimax® - AC product offering

DC Line Powered Units – E.C.D.C®

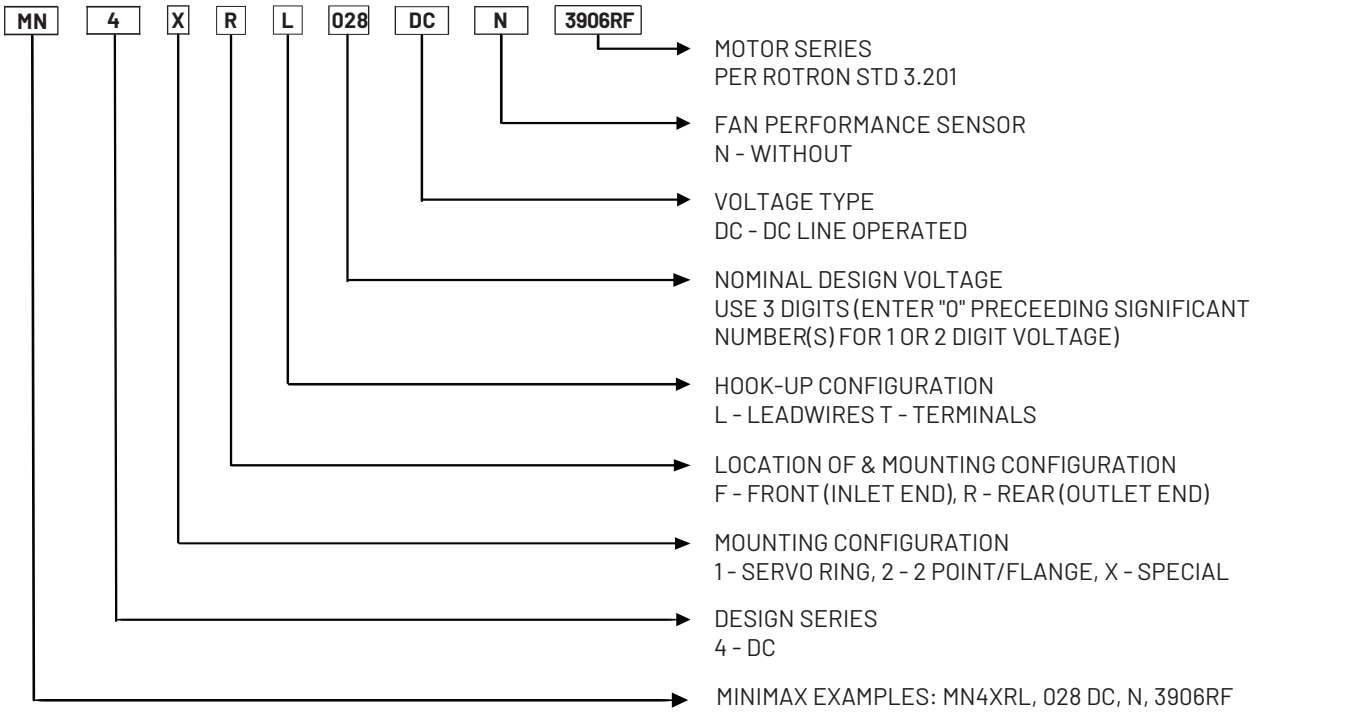
- Inverter driven induction motor (DC Line Operated)
- Speed/Airflow fixed by input voltage
- Meets or exceeds the requirements of MIL-B-28873
- and other applicable U.S. military and commercial
- aerospace specifications2
- Inrush current limit, reverse polarity, and over
- voltage protection
- Max free delivery airflow of 9 CFM1
- Ambient temperature range: -40°C to 85°C1
- Acoustic levels as low as 57 dBA1

[1] Airflow, maximum ambient and acoustic levels will vary depending on design parameters

[2] Please call for further information concerning applicable U.S. military and commercial aerospace specifications

Unit Description Key

TThe unit description key is for reference only and should not be confused with a part number. While most units are custom configurations, not all variations of the key shown below are possible. Please contact the Application Engineering department for more information regarding possible custom configurations.



* "X" IN ANY POSITION DENOTES SPECIAL FOR THAT FEATURE

Ordering Information

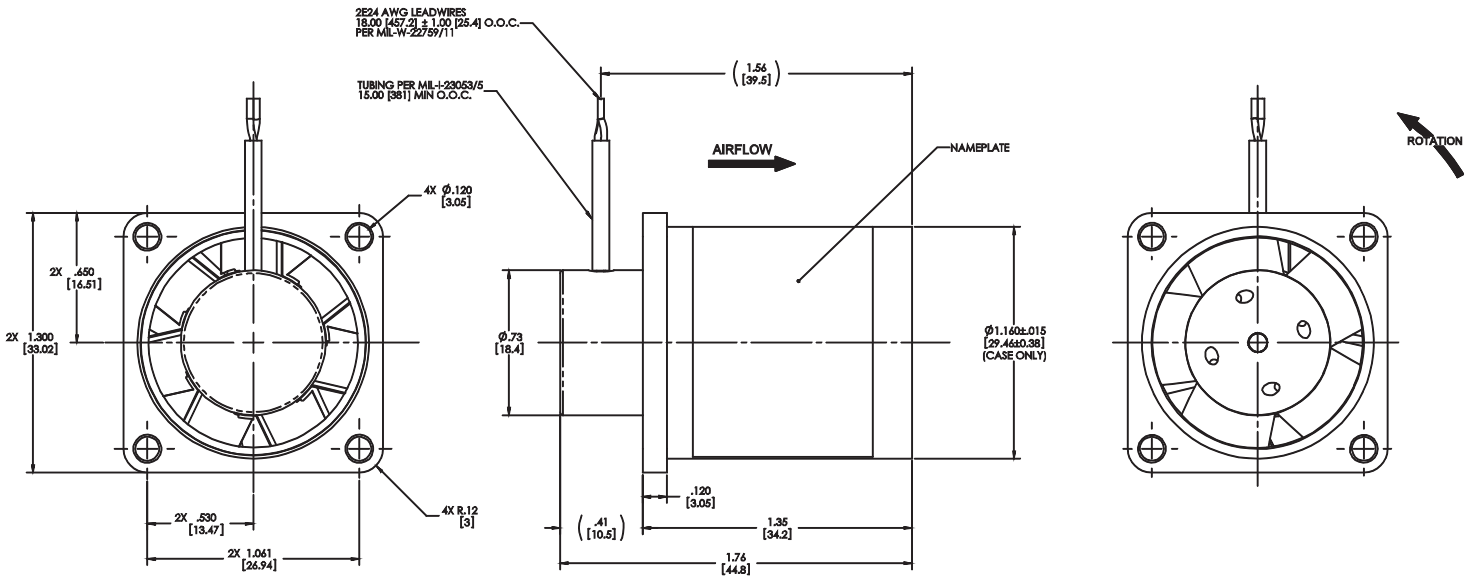
When ordering, please specify the specific Rotron part number listed on the model table below. Further ordering information, based on the configuration and motor series, may be obtained by contacting customer service. Please refer to the Unit Description Key explanation above.

Standard Product Offering of DC Line Powered Models

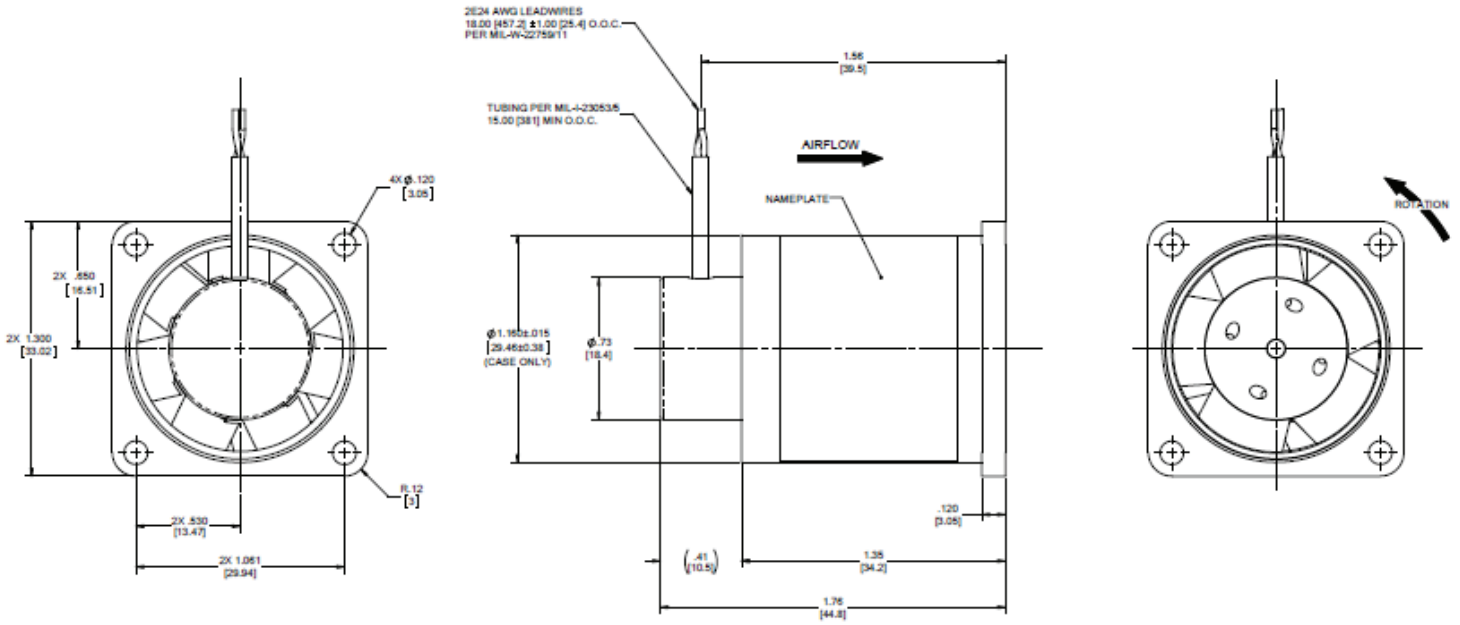
Part #	Prod. Desc.	Fbw (CFM)	Max Pressure (IWG)	Nom. RPM	Nom. Watts	Line Amps (A)	Max Amb (°C)	Weight (lbs)	Volts (DC)	Airflow Source Data	Features
012282000	MN4XFL 3906RF	9.8	0.8	21,700	10	0.4	85	0.1	28	A424-19	LEADS
012479000	MN4XRL, 3906RF	9.8	0.8	21,700	10	0.4	85	0.1	28	A780-19	LEADS
012346000	MN42RL 3906RF	9.8	0.8	21,700	10	0.4	85	0.1	28	A481-26	LEADS

MINIMAX – AC*

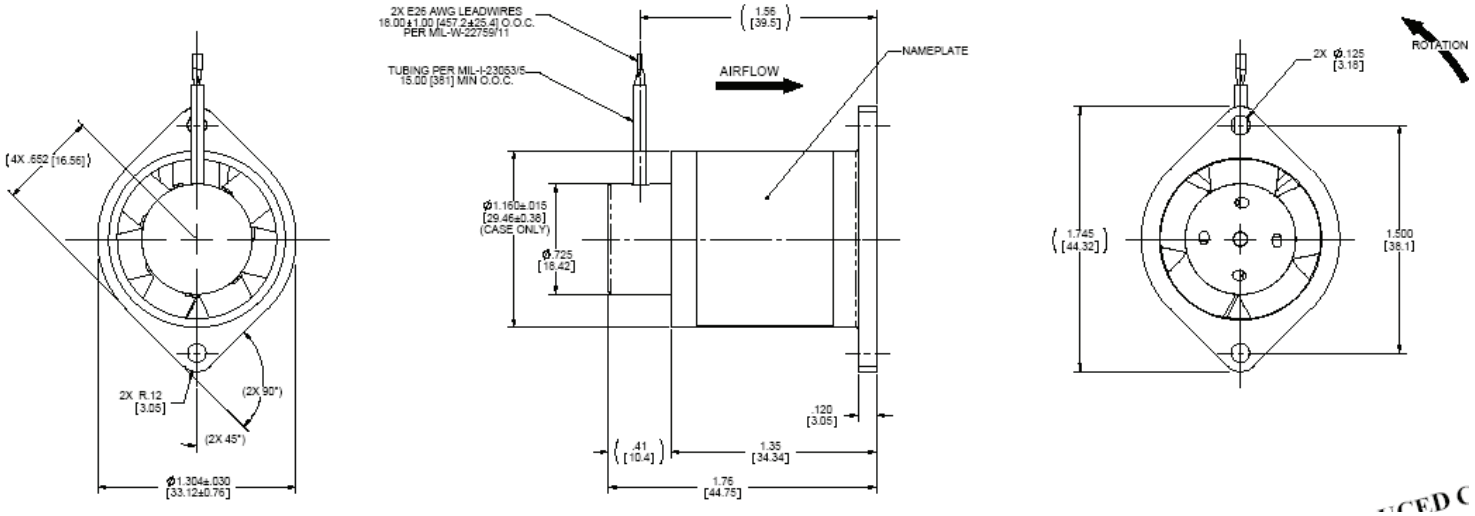
MN4XFL



MN4XRL



MN4XRL



*Part Number Specific Drawings Available Upon Request

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Specifications subject to change without notice