

Part Number: 011619000



The MIL 901 brushless DC motor version is capable of speeds in excess of 6,000 RPM. Like other compact tubeaxial fans, it is equipped with an aerodynamic venturi configured case. Utilizing the unique Rotron inverted bearing system construction the axial length of the fan is limited to the minimum measurement required by the highly efficient propeller, with no further space sacrificed for the brushless DC motor and internal drive electronics.

The venturi case is cast aluminum. The propeller is molded Ultem 2300 plastic. Utilizing Rotron's unique inverted bearing system, the propeller's stainless steel shaft runs on two high-precision (ABEC 3), double-shielded, stainless steel ball bearings with an integral lubricant reservoir to give longer maintenance-free life. Brushless DC drive electronics circuitry is mounted inside the case hub

Contact AMETEK Rotron for specific ratings. Rotron rates life expectancy in hours L10 or MTBF at a given ambient temperature. This is the time at which 90%, for L10, and 50%, for MTBF, of an available test lot are still operating.

SPECIFICATIONS

Unit Description: ML9FL,028ECDC,S,3382SF

Locked Rotor (Amps): 6

Air Flow (CFM): 432

Unit Weight (lbs): 2.05

Pressure Shutoff (IWG): 2.73

Max Amb Temp (°C): 85

Line Voltage (DC): 28

Product Family: Mil901

Phase/Frequency: N/A

Motor Series: 3382SF

Capacitor (uF): N/A

C Drawing Number: C011619000

Power (Watts): 107.8

DBA at 3 feet: 73

Running Current (Amps): 3.45

Voltage Type: DC

ENVIROMENTAL SPECIFICATIONS

This fan can be designed to meet the following requirements of MIL-STD-810C

Altitude: Method 500.1, pr I

Rain: Method 506.1

Acceleration: Method 513.2

Fungus: Method 508.1

Vibration: Method 514.2

Humidity: Method 507.1, pr I, II, III

Shock: Method 516.2

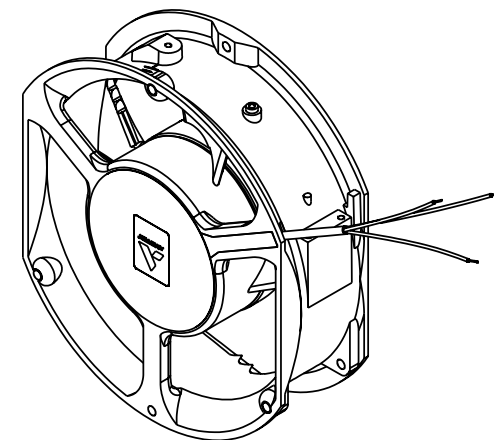
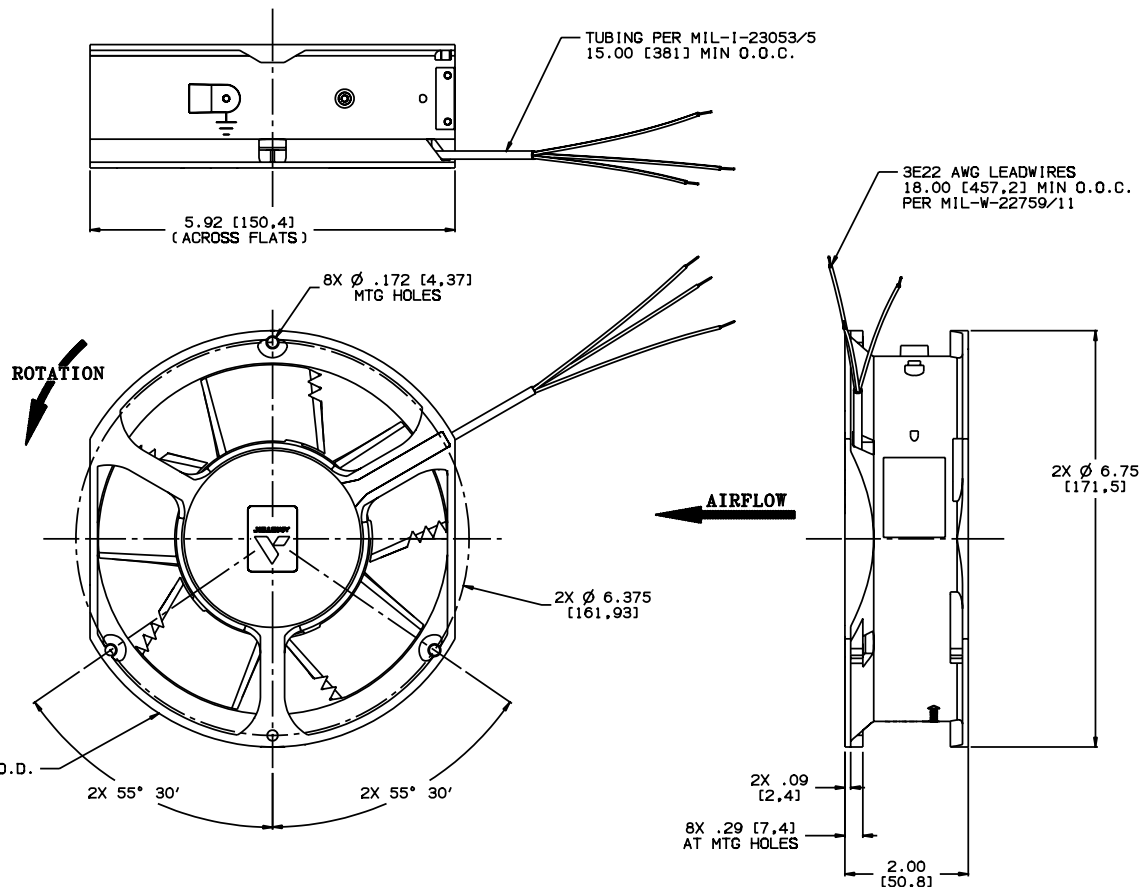
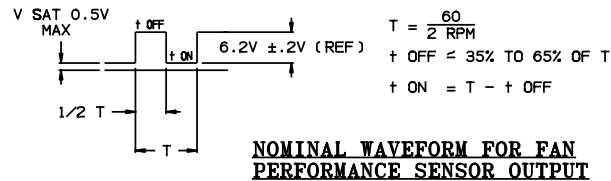
Explos Atm: Method 511.1, pr I

Salt Fog: Method 509.1

The listed environmental specifications are for reference only - please [Contact](#) our local sales representative to provide the current status and confirmation of compliance to your specification.

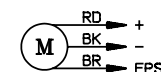
DWG. NO. C011619		SH. 1	REV. C	1	
REVISIONS					
ZONE	REV	DESCRIPTION		DATE	APPROVED
-	C	REVISED & REDRAWN PER C.O. 82324		06/04/25	VPG

NOTES:
1 - INTERPRET DRAWING PER ASME Y14.5



ISOMETRIC VIEW

HOOK-UP DIAGRAM



**NAMEPLATE
MOTOR DATA (NOM)**
VOLTS ----- 28 VDC
CURRENT ----- 3.45 AMPS
SPEED ----- 6,000 RPM
MAX AMB ----- 85°C

INCH (MILLIMETER)		DECIMALS ANGLES .XX ± .03 [0.8] ± 2° .XXX ± .010 [0.25]		AMETEK CROTRON MILITARY & AEROSPACE PRODUCTS - WOODBURY, NY 11799	
APPROVALS DRAWN J. JUNE CHECKED V. GRAVER ENGR B. DELOZIER DO NOT SCALE DRAWING		DATE 06/04/17 06/04/25 06/04/25		ASM - FAN TUBEAXIAL ML9FL.028ECDC.S.3382SF	
PROJECTION FIRST ANGLE		D 82877 F. LEWIS		DWG. NO. C011619 REV. C SCALE 1/1 SHEET 1 OF 1	

REDUCED COPY

HQPDF Evaluation 09/08/2020

NOTES:

PURPOSE: TO ESTABLISH NEW TEST DATA FOR NEW LAB REF. FAN THAT REPLACES OBSOLETE E3000-6402. SET FAN AT 6000RPM'S F/D @ 28 VDC.

Date: 1-25-02

Bench: N4P-35-3

Flow: L ☐ R ☐

RPM 6821

Line Amps 4.40

Locked Amps ---

Watts

MOTOR

Series 3382

Type ECDC

Volts 32

Wave DC

Phase DC

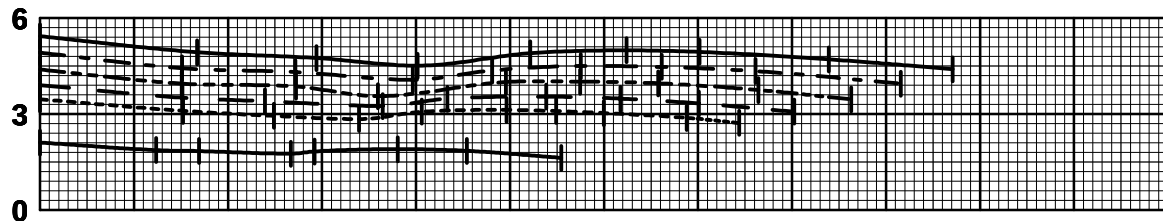
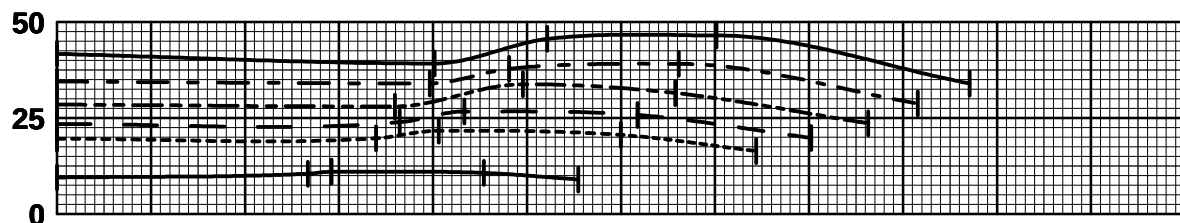
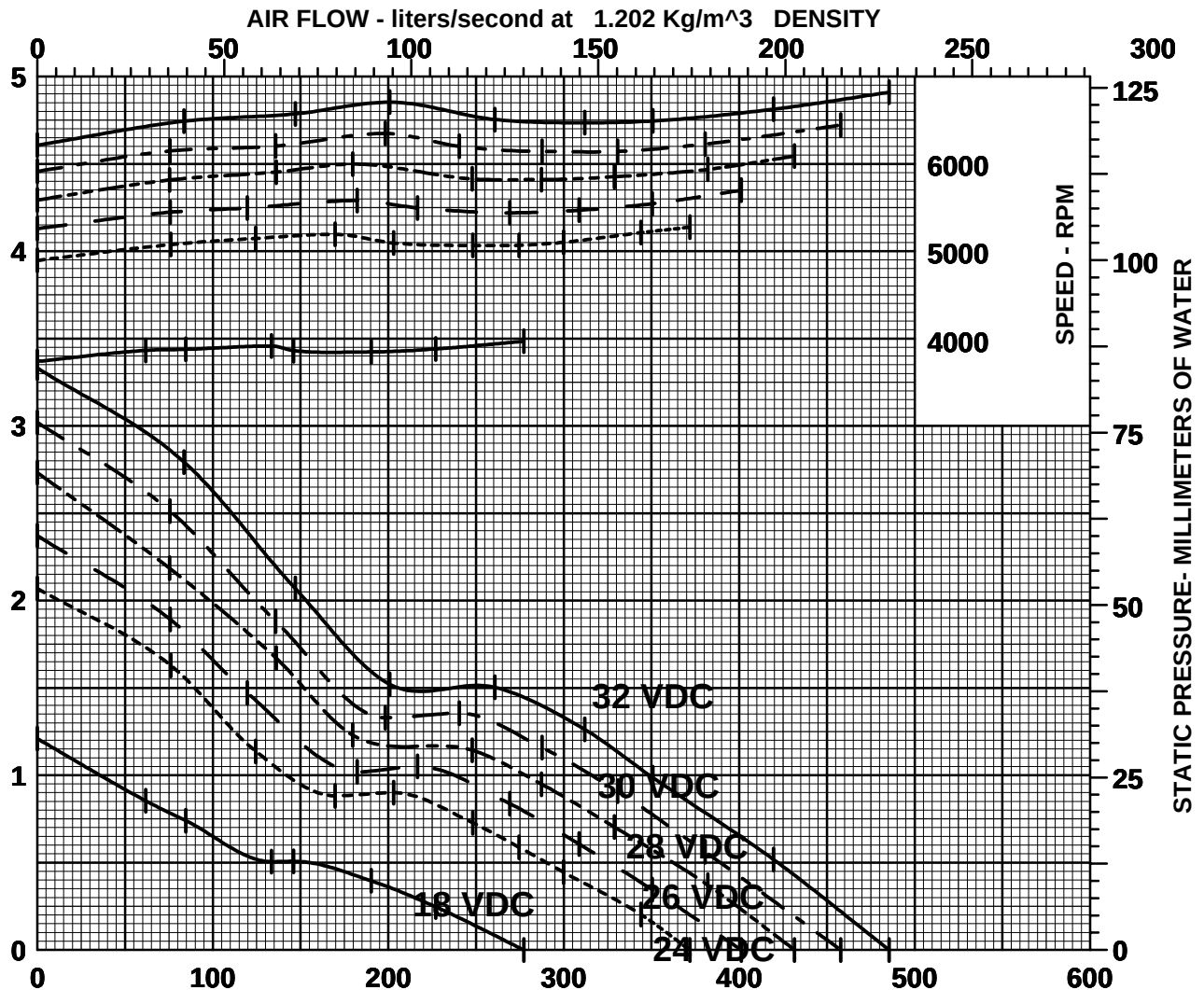
Hertz

MFD

STATIC PRESSURE- INCHES OF WATER

TEMP. RISE °C
BY HOTSPOT

CURRENT INPUT
AMPS



AIR FLOW - CFM at 0.075 lbs/ft³ DENSITY RM-11125