AMETEK DYNAMIC FLUID SOLUTIONS

Product Bulletin

Nautilair 151132-56

MECHANICAL
DIAMETER: 12.3" (312mm)
DISCHARGE TYPE: Tangential
DISCHARGE: Standard Rectangular Flange
APPROXIMATE WEIGHT: 28lbs/12.7kg

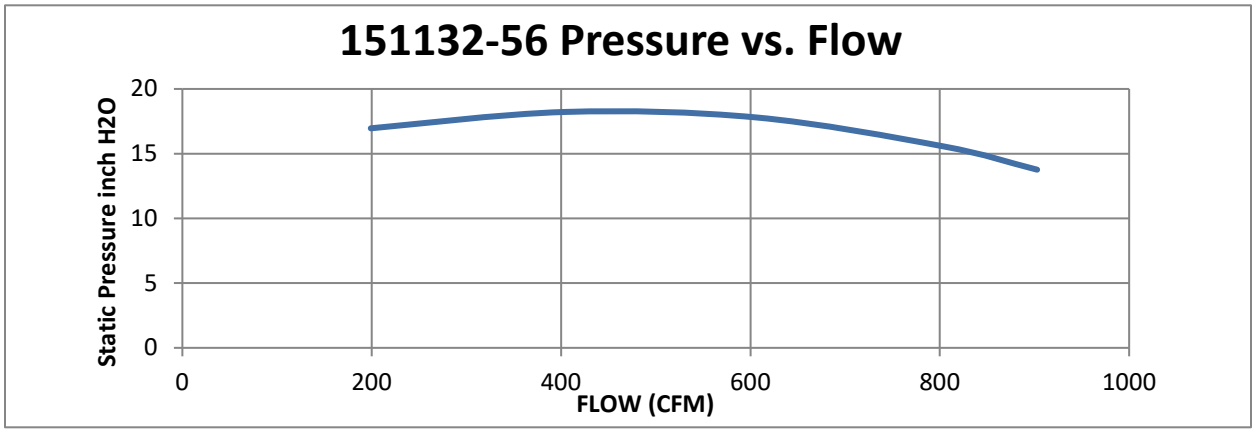
PERFORMANCE
FLOW CLASSIFICAITON: High Output
STAGES: 1 Stage

TEMPERATURE
OPERATING TEMP: 0°C to 50°C
STORAGE TEMP: -40°C to 85°C

ELECTRICAL
INPUT VOLTAGE RANGE: 208-264VAC
INPUT VOLTAGE: 240VAC, 3 Φ

OPTIONAL FEATURES
SPEED CONTROL: PWM, Pull Down, closed loop
OTHER: 3-Pin Power Port; 5-Pin Control Port
If loss of signal to zero speed (Pull Down)
Power output option enabled
Custom Calibration

REGULATORY CERTIFICATIONS
COMPLIANCE: RoHS and Reach
UL FILE NUMBER: E-99403



Flow Rate *cfm*	Static Pressure *inch H2O*	Total Pressure *inch H2O*	Current *A*	Power Demand *W*	Voltage *V*	Flow Temp. *°C*	Rotational Speed *rpm*	Static Efficiency %
902.80	13.76	15.08	13.40	3500.00	240.00	20.92	8010	42%
802.73	15.58	16.62	.12.1	3090.00	240.00	22.00	8010	48%
605.52	17.80	18.40	9.30	2340.00	240.00	23.29	8010	54%
404.24	18.22	18.49	7.10	1750.00	240.00	23.15	8010	50%
199.00	16.96	17.02	5.00	1215.00	240.00	23.84	8010	30%

DESIGN APPLICATION: Designed to provide variable airflow for low NOx and CO emission in high efficiency gas fired combustion systems. Built with non-sparking materials. Blower housing assembly constructed of die cast aluminum. Impeller constructed from hardened aluminum. Rubber isolation mounts built into blower construction to dampen vibration within the motor. Two-piece blower housing assembly sealed and factory leak tested. Customer is responsible to check for any leakage once the blower is installed into the final application.

MISCELLANOUS: Motor cooling inlet and discharge vents must not be obstructed. Motor ventilation air to be free of oils and other foreign particles. Blower is to be mounted so ventilation air cannot be re-circulated.

Nautilair

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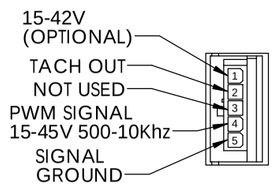
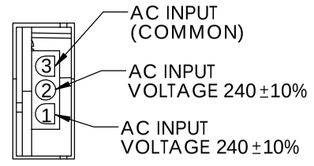
DWG NO. **151132-56-0** REV. **C**

NOTES:
1. RoHS AND REACH COMPLIANCE. REFERENCE AMETEK ENVIRONMENTAL SPECIFICATION ES0010 FOR DETAILS.
2. POWER/SPEED CONTROL PORT MATES WITH: AMP HOUSING 350766-1,USING CONTACT 350536-3 ON #16 AWG, 105˚C, 600V WIRE.
3. CONTROL PORT MATES WITH: MOLEX HOUSING: 39-01-4051, USING CONTACT 39-00-0208 ON #22 AWG, 125˚C, 300V WIRE.
4. ALL INTAKE, EXHAUST, COOLING DUCTS AND VENTS MUST NOT BE OBSTRUCTED BY MOUNTING.
5. MOTOR VENTILATION AIR TO BE FREE OF OILS AND OTHER FOREIGN PARTICLES, (I.E. BREATHING QUALITY AIR). BLOWER TO BE MOUNTED SO THAT MOTOR VENTILATION AIR CANNOT RECIRCULATE.
6. SUBJECT TO CHANGE WITHOUT NOTICE, CONTACT FACTORY FOR CURRENT REVISION.
7. TACH OUTPUT-2 PULSES PER REVOLUTION.
   SIGNAL IS A FREQUENCY (Hz) INDICATOR OF THE RPM
   CAN BE MEASURED WITH RESPECT TO THE GROUND (PIN 5)
   RPM=TACH-OUT x 30.

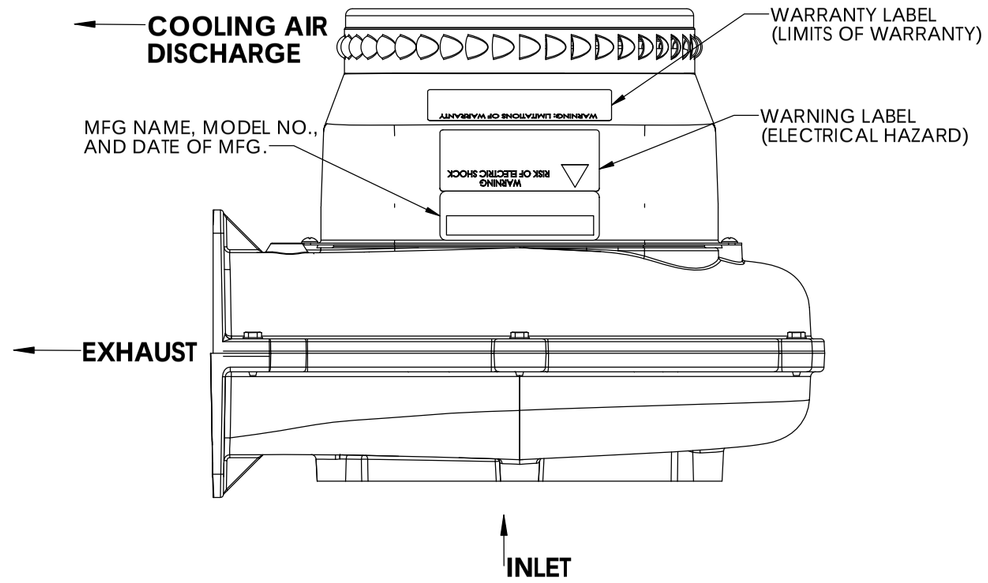
REVISIONS				
REV	ECN NO.	CHANGE	DATE	APP'D
B	104606	CONVERTED TO PROPER FORMAT FOR ROCK CREEK PRODUCTION. MH	9-27-12	KD
C	108288	UPDATED PICTORIALLY TO SHOW STANDOFF ON EXHAUST; ADDED EARTH GROUND CALLOUT. MH	8-17-15	KD

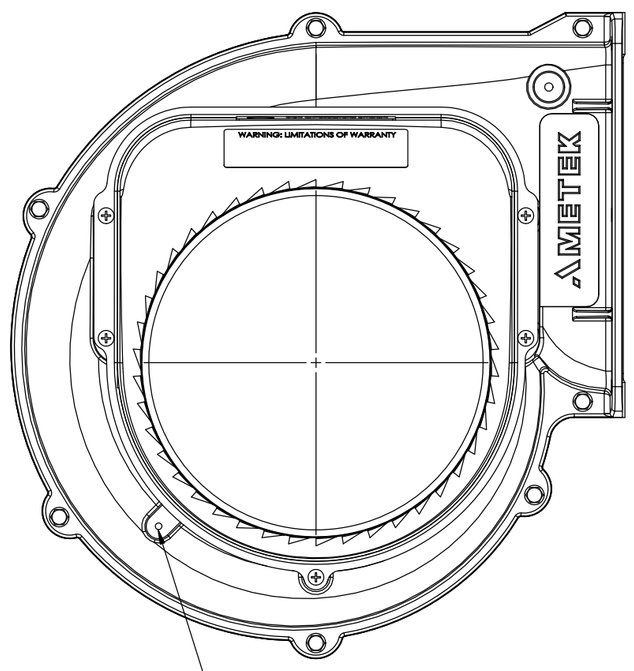


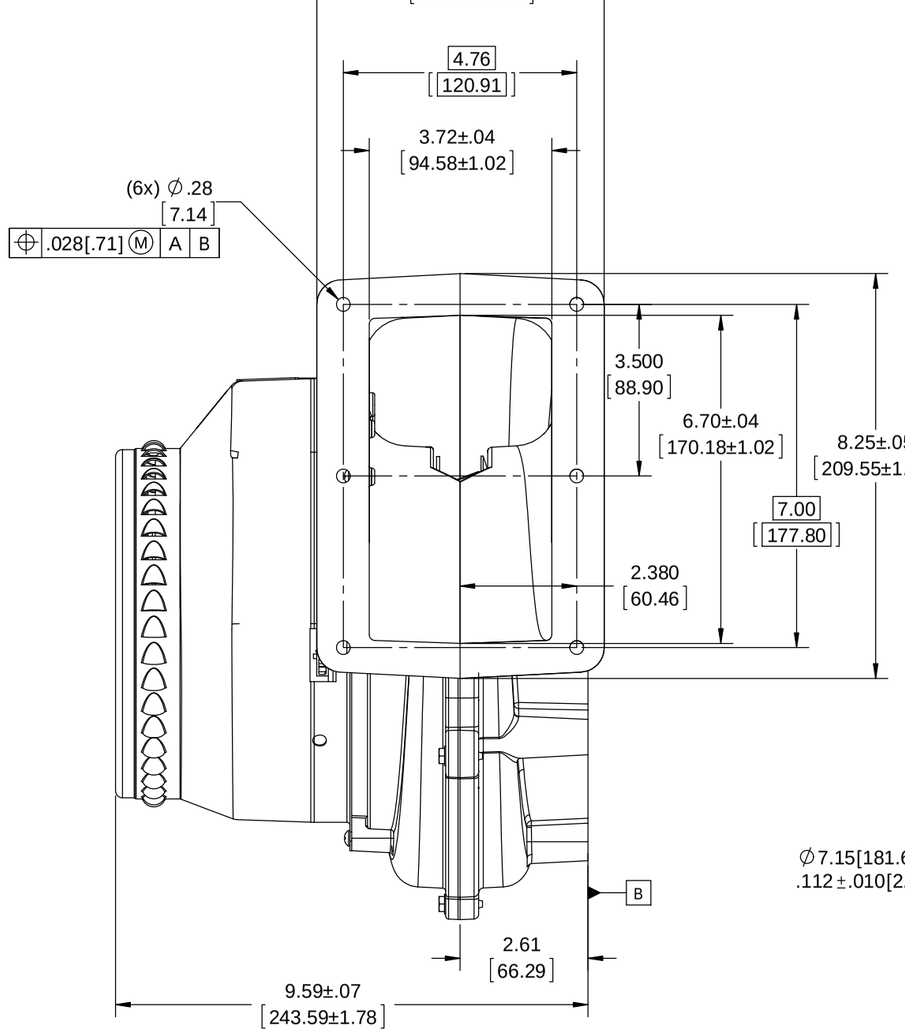
SECTION A-A
SCALE 1 : 1
CONTROL PORT

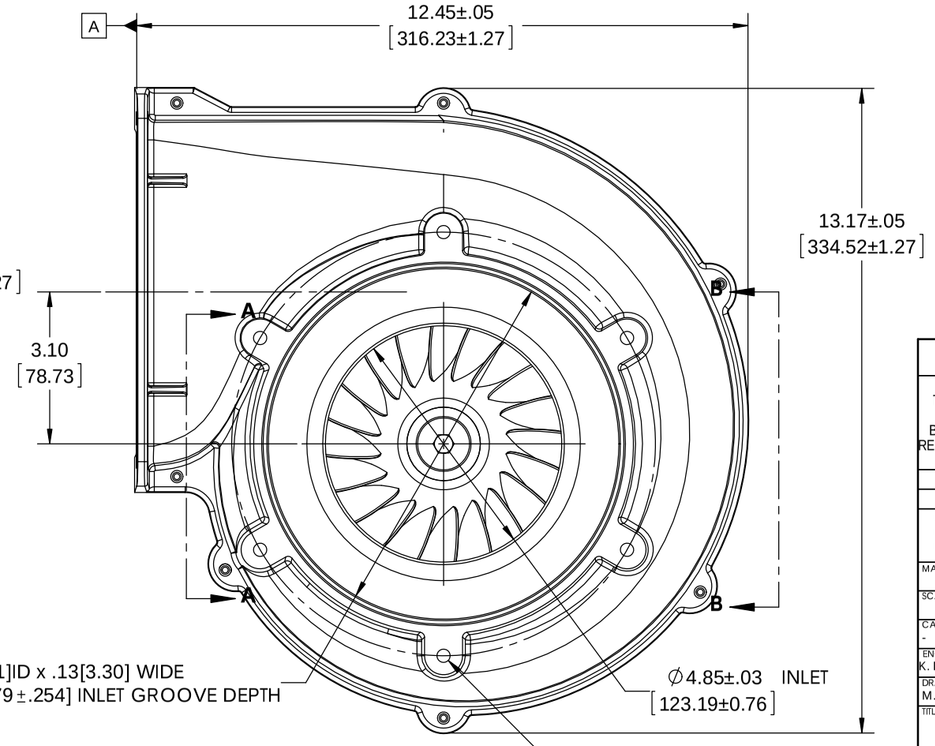


SECTION B-B
SCALE 1 : 1
POWER PORT









CONTROL CHARACTERISTICS M101-M199=MAJOR
REF. ENG. SPEC. K-1 SW

DIMENSIONING AND TOLERANCING IN ACCORDANCE WITH ANSI Y14.5M-1982

DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED
REMOVE BURRS
BREAK SHARP EDGES .005/.020

TOLERANCES
XX ±.02 XXX .005 ANGLES ±° 30'

MATERIAL -

SCALE	CODE	FINISH SPEC.
1:2	75511	-

CAD FILE NAME	NEXT ASSY.	WT.
-	-	-

ENG. APPD.:	DATE:	APPD.:	DATE:
K. DIEHL	9-27-12	-	-

DRAWN BY:	DATE:	CHD BY:	DATE:
M. HELMINK	9-27-12	-	-

TITLE **N12.3 240V 3 PHASE SPC PWM BLOWER OUTLINE**

SIZE **D**

AMETEK TECHNICAL INDUSTRIAL PRODUCTS

E-NO. - REF. -

SHEET 1 OF 1

DWG NO. **151132-56-0**