AMETEK DYNAMIC FLUID SOLUTIONS

Product Bulletin

Nautilair 151645-01

MECHANICAL
DIAMETER: 7.6" (193mm)
DISCHARGE TYPE: Tangential
DISCHARGE: Small Flange
APPROXIMATE WEIGHT: 4.8lbs/2.2Kg

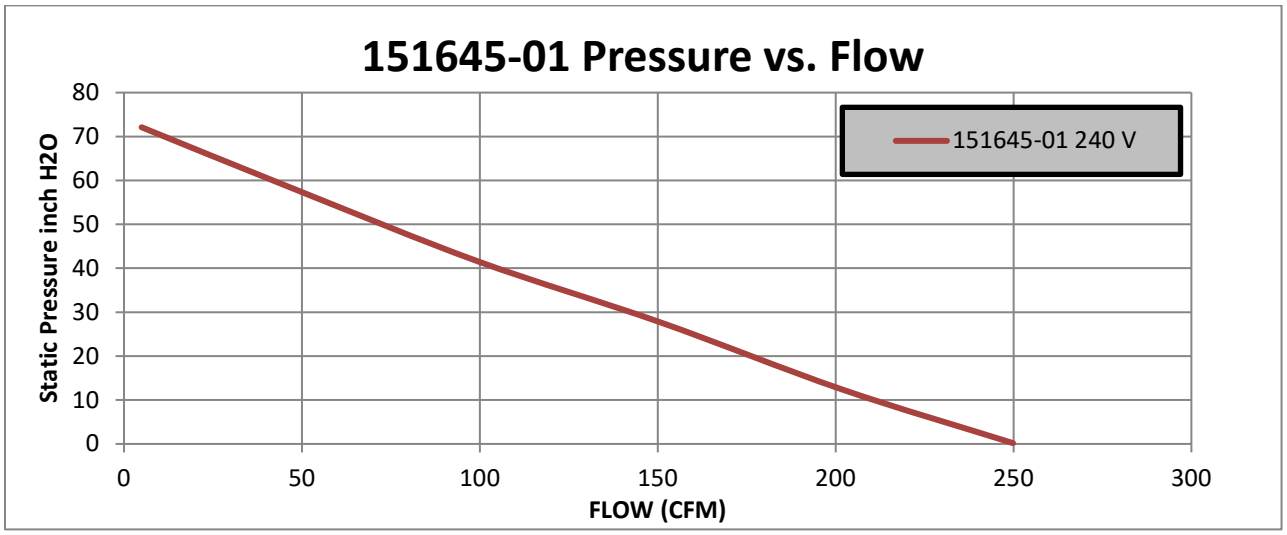
PERFORMANCE
FLOW CLASSIFICATION: High Output
STAGES: 1 Stage

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

ELECTRICAL
OPERATING INPUT VOLTAGE RANGE: 208-264VAC
OPERATING INPUT VOLTAGE: 240VAC

OPTIONAL FEATURES
SPEED CONTROL: 0-10 VDC, special program and connector

REGULATORY CERTIFICATIONS
COMPLIANCE: RoHS and Reach
UL FILE NUMBER: E94403
AGENCY FULL LOAD AMPS: 10A



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 *%*	Total Efficiency *%*
249.48	0.08	0.59	10.91	1452.68	265.18	26.14	11590	0.16	1.20
202.78	12.16	12.50	10.96	1454.25	265.17	27.32	12020	20.25	20.81
149.39	28.30	28.48	10.95	1453.58	265.17	29.14	13250	34.89	35.11
102.09	41.05	41.14	10.94	1457.58	265.17	30.99	14800	34.65	34.73
50.77	57.59	57.61	10.90	1457.38	265.16	34.57	16900	24.40	24.41
4.80	73.09	73.09	10.55	1408.18	265.17	30.23	19150	2.99	2.99

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 checked. 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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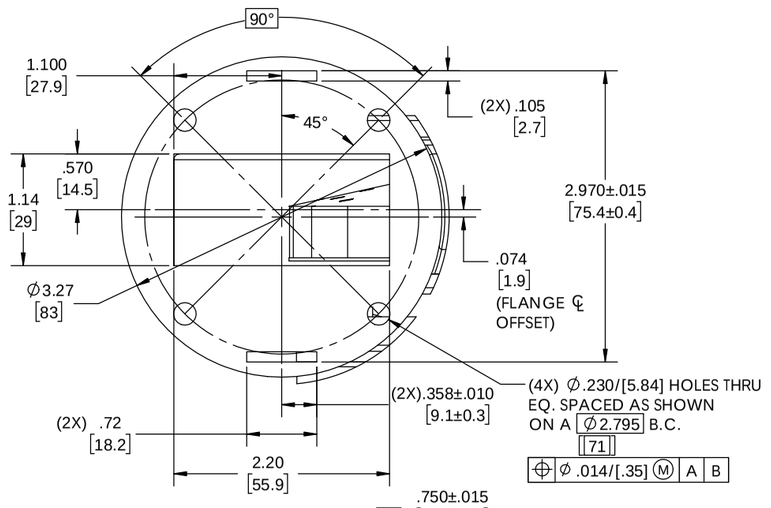
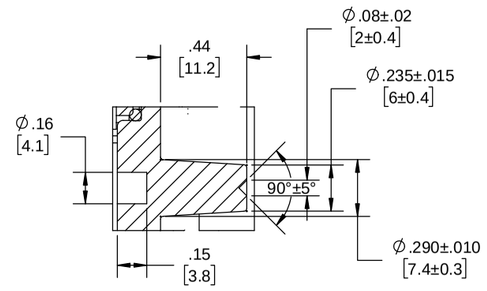
DWG NO. **151645-01-0** REV. **C**

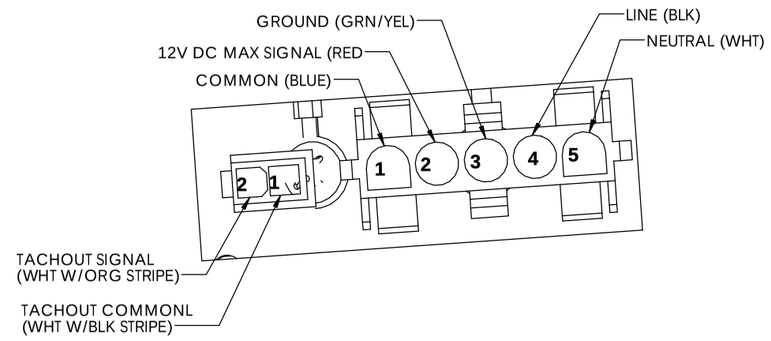
NOTES:
1. ALL INTAKE, EXHAUST, COOLING DUCTS AND VENTS MUST NOT BE OBSTRUCTED BY MOUNTING.
2. MOTOR VENTILATION AIR TO BE FREE OF OILS AND OTHE FOREIGN PARTICLES, (I.E. BREATHING QUALITY AIR) MOTOR TO BE MOUNTED SO THAT MOTOR VENTILATION AIR CANNOT RECIRCULATE.
3. **POWER CONNECTION:** AMP UNIVERSAL MATE-N-LOC CONNECTOR (350810-1) WITH AMP PIN TERMINALS (350218-1) ON BLACK & WHITE 16 GA. WIRE RATED AT 600V 125˚C.
4. **CONTROL CONNECTION:** AMP PIN TERMINALS (350561-1) ON RED & BLUE 22GA. WIRE RATED AT 600V 125˚ C.
5. **GROUND LEAD:** AMP PIN TERMINAL (350547-1) ON GREEN/YELLOW 18 GA. 105˚C, 600V RATED WIRE.
6. **TACH OUT:** MOLEX CONNECTOR PN# 0039013029 WITH PINS, MOLEX PN#39-00-0041 ON 22AWG, 125˚C, 300V, CL1252 WIRE CONNECTS WITH CUSTOMER SUPPLIED CONNECTOR MOLEX PN#0039012025 WITH SOCKETS MOLEX PN#39-00-0039.
7. RoHS AND REACH COMPLIANCE. REFERENCE AMETEK ENVIRONMENTAL SPECIFICATION ES0010 FOR DETAIL.

REVISIONS				
REV	ECN NO.	CHANGE	DATE	APP'D
A	DMR #412	RELEASED TO PRODUCTION. MH	7-3-18	KD
B	DE #1429	LEAD LENGTH 5.00±0.50 WAS 6.00±.50. MH	10-1-18	JL
C	DE #1750	LEAD LENGTH 6.50±.50 WAS 5.00±.50. MH	4-9-19	JL

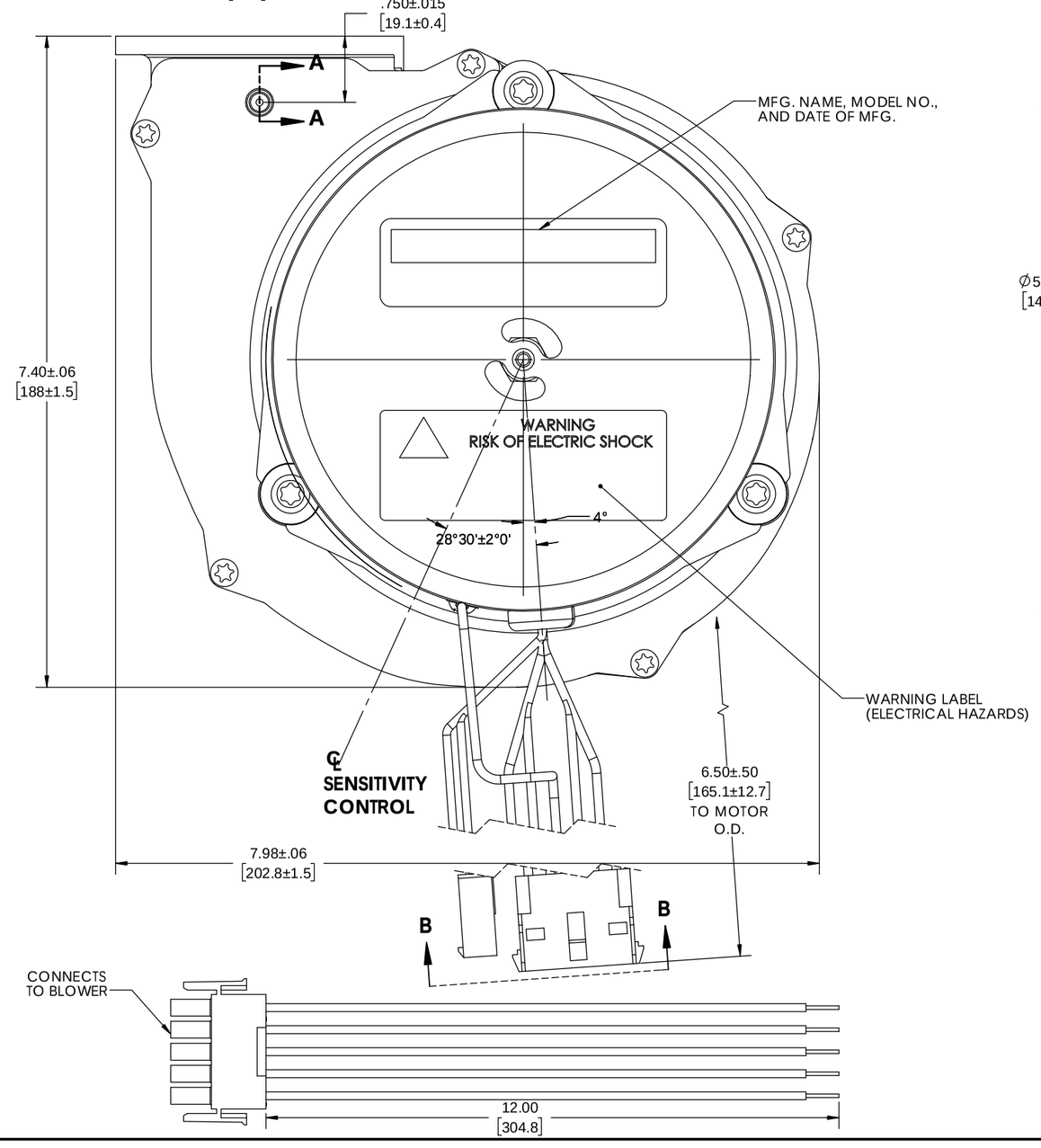


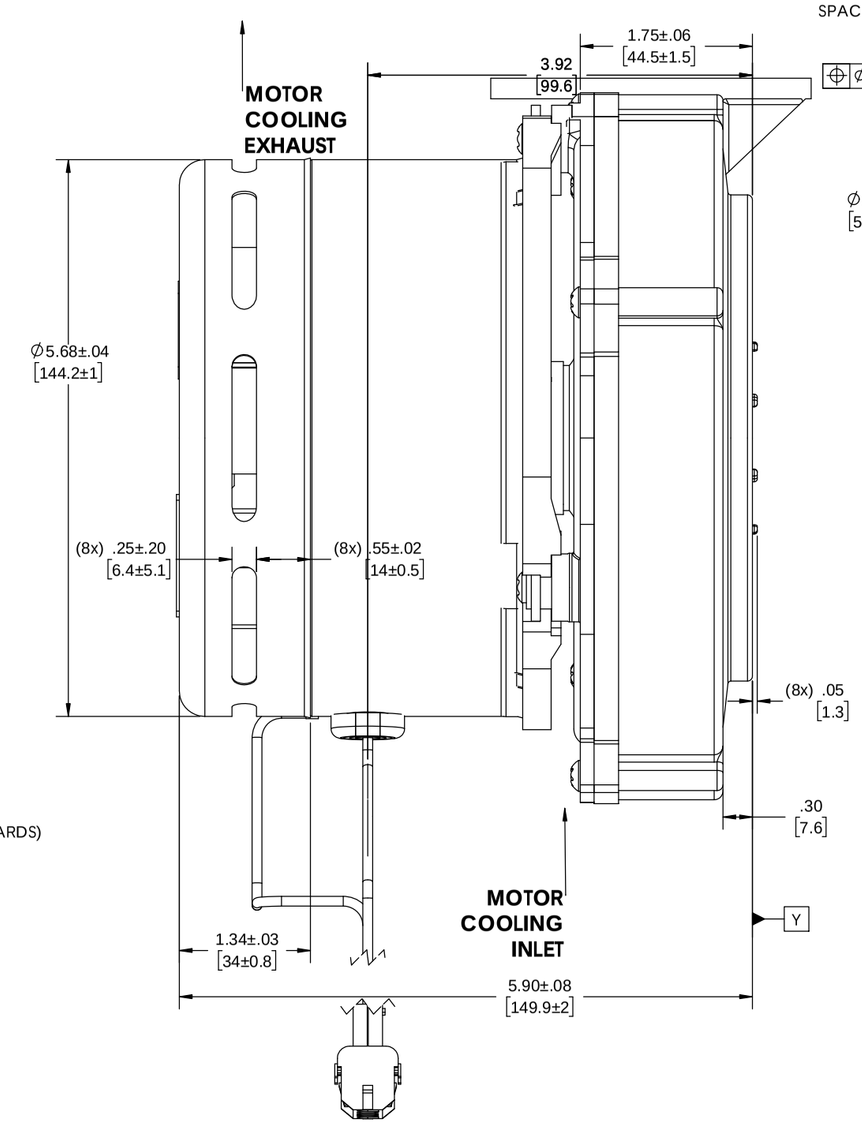


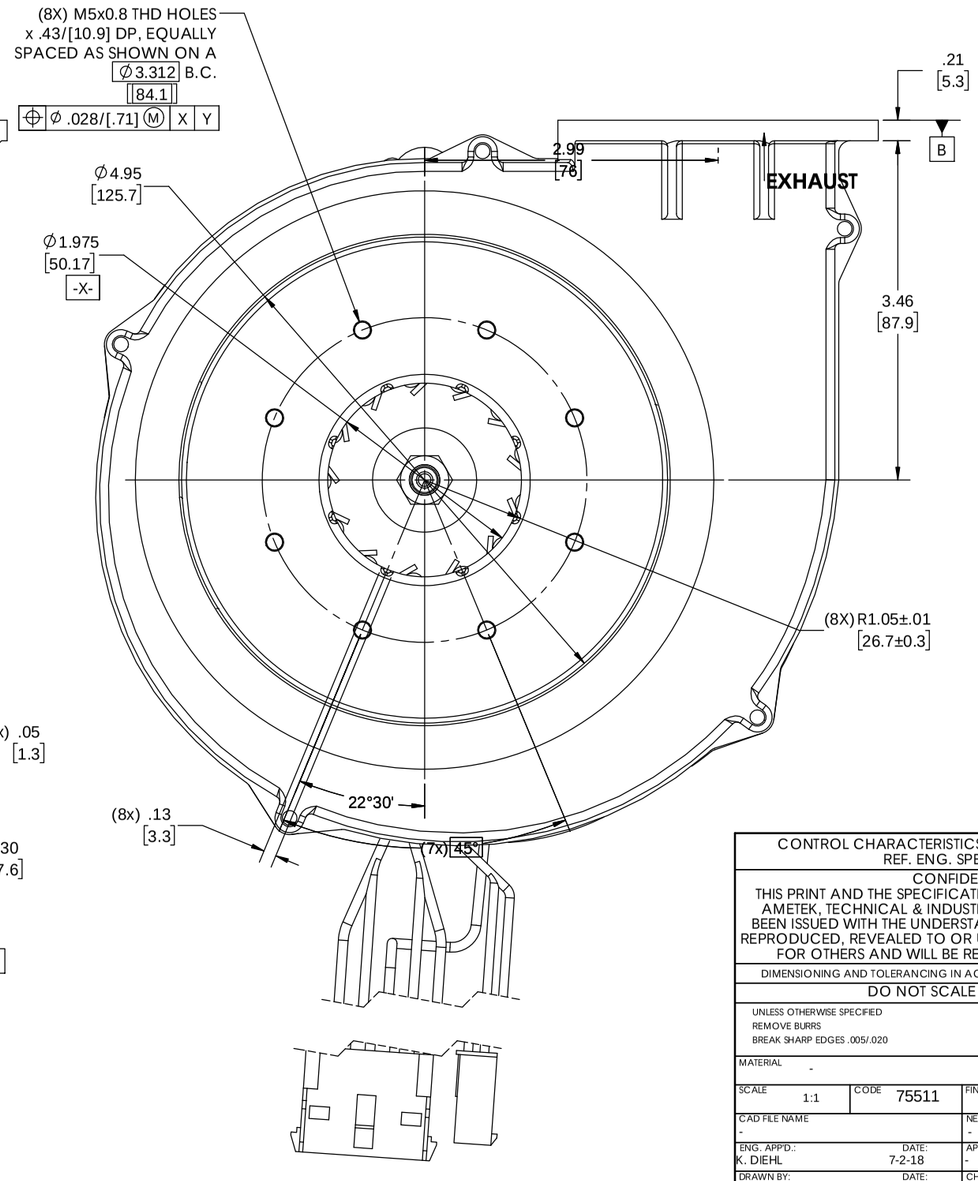
SECTION A-A
SCALE 2 : 1



VIEW B-B
SCALE 2 : 1







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

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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 ±0° 30'

MATERIAL -

SCALE 1:1 | CODE 75511 | FINISH SPEC.: -

CAD FILE NAME: - | NEXT ASSY.: - | WT.: -

ENG. APP'D.: K. DIEHL | DATE: 7-2-18 | APP'D.: - | DATE: -

DRAWN BY: M. HELMINK | DATE: 7-2-18 | CHD BY: - | DATE: -

TITLE
7.6 240V NAUTILAIR BYPASS
1STG, 0-10V DC SPD CTRL BLWR OUTLINE

SIZE **D**

AMETEK DYNAMIC FLUID SOLUTIONS

E-NO. E-52356 | REF. 150145-50 | SHEET 1 OF 1

DWG NO. **151645-01-0**