

**NAUTILAIR**

**Model: 151406-00P**

**MECHANICAL**

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

**PERFORMANCE**

**FLOW CLASSIFICATION:** High Energy  
**STAGES:** 1 Stage

**TEMPERATURE**

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

**ELECTRICAL**

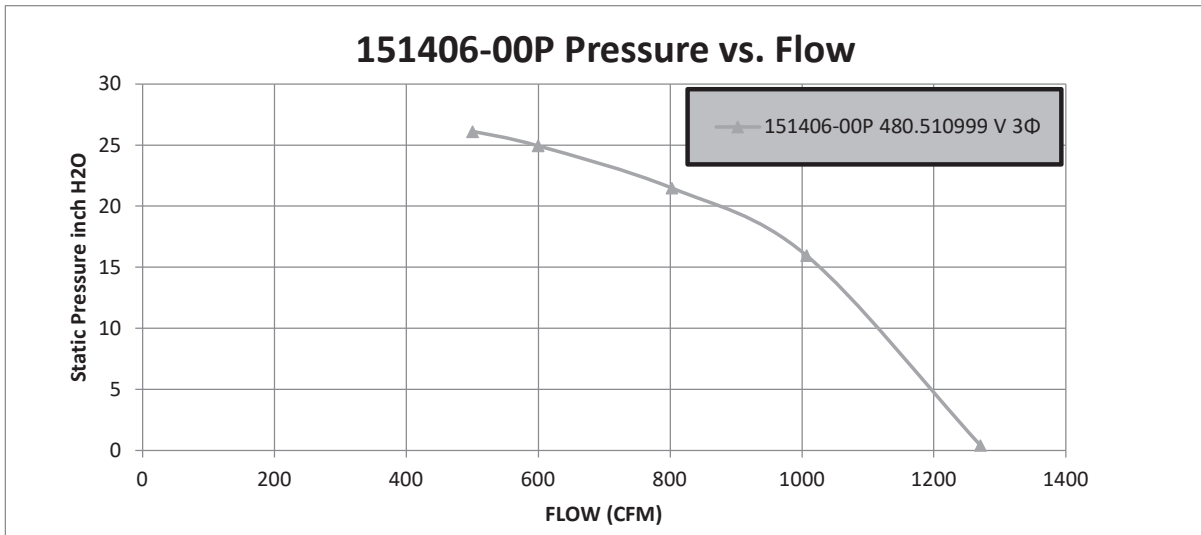
**OPERATING INPUT VOLTAGE: RANGE:**  
**380-575 VAC**  
**OPERATING INPUT VOLTAGE: 480V 3Ø**

**OPTIONAL FEATURES**

**SPEED CONTROL:** PWM Pull Down,  
 Open Loop, 4-Pin Power, 5-Pin Control,  
 3-Pin Status

**REGULATORY CERTIFICATIONS**

**COMPLIANCE:** RoHS and Reach  
**UL FILE NUMBER:** E94403  
**AGENCY FULL LOAD AMPS:** 13A



| Flow Rate<br><i>cfm</i> | Static Pressure<br><i>inch H2O</i> | Total Pressure<br><i>inch H2O</i> | Current<br><i>A</i> | Power Demand<br><i>W</i> | Voltage<br><i>V</i> | Flow Temp.<br><i>°C</i> | Rotational Speed<br><i>rpm</i> | Static Efficiency<br><i>%</i> | Total Efficiency<br><i>%</i> |
|-------------------------|------------------------------------|-----------------------------------|---------------------|--------------------------|---------------------|-------------------------|--------------------------------|-------------------------------|------------------------------|
| 1270.25                 | 0.40                               | 1.23                              | 7.77                | 3794.98                  | 480.51              | 28.52                   | 7680                           | 1.62                          | 4.93                         |
| 1006.85                 | 15.95                              | 16.47                             | 7.98                | 3909.94                  | 480.51              | 29.73                   | 8610                           | 49.34                         | 50.94                        |
| 802.83                  | 21.47                              | 21.79                             | 7.28                | 3552.01                  | 480.51              | 30.26                   | 9000                           | 58.37                         | 59.26                        |
| 599.55                  | 24.95                              | 25.13                             | 6.50                | 3134.03                  | 480.53              | 30.87                   | 9420                           | 57.50                         | 57.92                        |
| 500.29                  | 26.11                              | 26.24                             | 6.08                | 2902.75                  | 480.54              | 31.32                   | 9660                           | 54.28                         | 54.55                        |

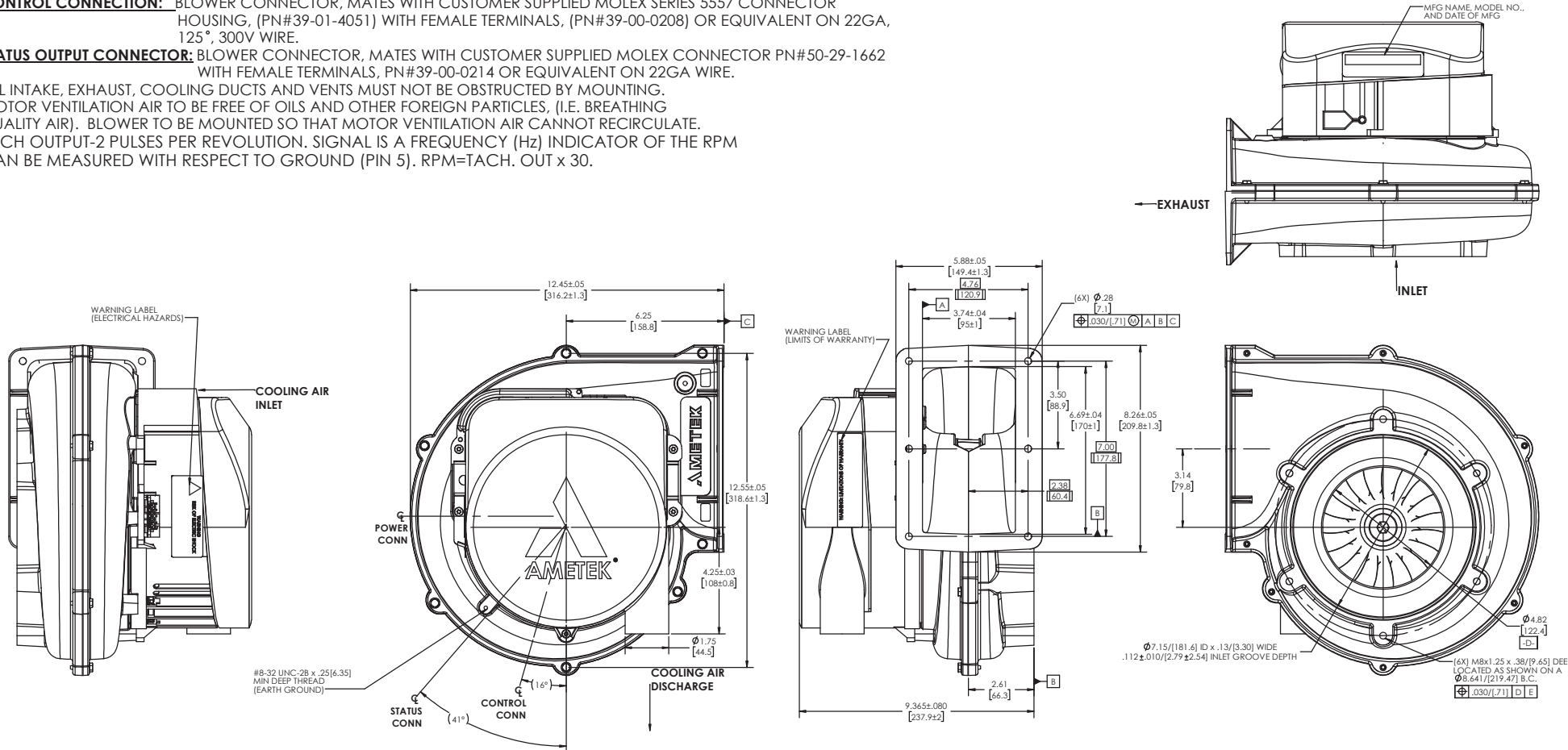
**WARNING**

**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.

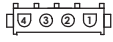
**MISCELLANEOUS:** Motor cooling inlet and discharge vents must not be obstructed. Motor ventilation air to be free of oils and other foreign particles. Blower is to be mounted so ventilation air cannot be re-circulated.

NOTES:

1. ROHS AND REACH COMPLIANCE. REFERENCE AMETEK ENVIRONMENTAL SPECIFICATION ES0010 FOR DETAILS.
2. **POWER CONNECTION:** BLOWER CONNECTOR, MATES WITH CUSTOMER SUPPLIED AMP CONNECTOR PN#350779-1 WITH FEMALE TERMINALS, PN#350536-1 OR EQUIVALENT ON 16GA, 105°C, 600V WIRE.
3. **CONTROL CONNECTION:** BLOWER CONNECTOR, MATES WITH CUSTOMER SUPPLIED MOLEX SERIES 5557 CONNECTOR HOUSING, (PN#39-01-4051) WITH FEMALE TERMINALS, (PN#39-00-0208) OR EQUIVALENT ON 22GA, 125°, 300V WIRE.
4. **STATUS OUTPUT CONNECTOR:** BLOWER CONNECTOR, MATES WITH CUSTOMER SUPPLIED MOLEX CONNECTOR PN#50-29-1662 WITH FEMALE TERMINALS, PN#39-00-0214 OR EQUIVALENT ON 22GA WIRE.
5. ALL INTAKE, EXHAUST, COOLING DUCTS AND VENTS MUST NOT BE OBSTRUCTED BY MOUNTING.
6. 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.
7. TACH OUTPUT-2 PULSES PER REVOLUTION. SIGNAL IS A FREQUENCY (Hz) INDICATOR OF THE RPM CAN BE MEASURED WITH RESPECT TO GROUND (PIN 5). RPM=TACH. OUT x 30.



8500-01-00  
PWM PULLED DOWN



POWER CONNECTION

| PIN # | CONTROL | DESCRIPTION | COLOR |
|-------|---------|-------------|-------|
| 1     | INPUT   | A/C INPUT   | BLACK |
| 2     | INPUT   | A/C INPUT   | BLACK |
| 3     | INPUT   | A/C INPUT   | BLACK |
| 4     | -       | GROUND      | GREEN |



CONTROL CONNECTION

| PIN # | CONTROL  | DESCRIPTION            | COLOR  |
|-------|----------|------------------------|--------|
| 1     | INPUT    | 15-40V (OPTIONAL)      | RED    |
| 2     | OUTPUT   | TACH-OUTPUT            | WHITE  |
| 3     | NOT USED | NOT USED               | YELLOW |
| 4     | INPUT    | PWM (15-34V) (1-20kHz) | GREEN  |
| 5     | INPUT    | COMMON                 | BLACK  |



STATUS OUTPUT CONNECTION

| PIN # | CONTROL | DESCRIPTION               | COLOR |
|-------|---------|---------------------------|-------|
| 1     | OUTPUT  | ISOLATED +15VDC           | RED   |
| 2     | OUTPUT  | OPEN COLLECTOR TRANSISTOR | BLUE  |
| 3     | OUTPUT  | ISOLATED COMMON           | BLACK |