

**Nautilair**<sup>®</sup>

14"; 240VAC; 3Ø Combustion Blowers - Standard Output

**Model: NP140-3N02C-0003**

**MECHANICAL**

**DIAMETER:** 14" (356mm)  
**DISCHARGE TYPE:** Tangential  
**DISCHARGE:** Large Flange  
**APPROXIMATE WEIGHT:** 28lbs/12.7kg

**ELECTRICAL**

**OPERATING INPUT VOLTAGE RANGE:** 180-264VAC  
**OPERATING INPUT VOLTAGE:** 240V

**PERFORMANCE**

**FLOW CLASSIFICATION:** Standard Output  
**STAGES:** 1 Stage

**FEATURES**

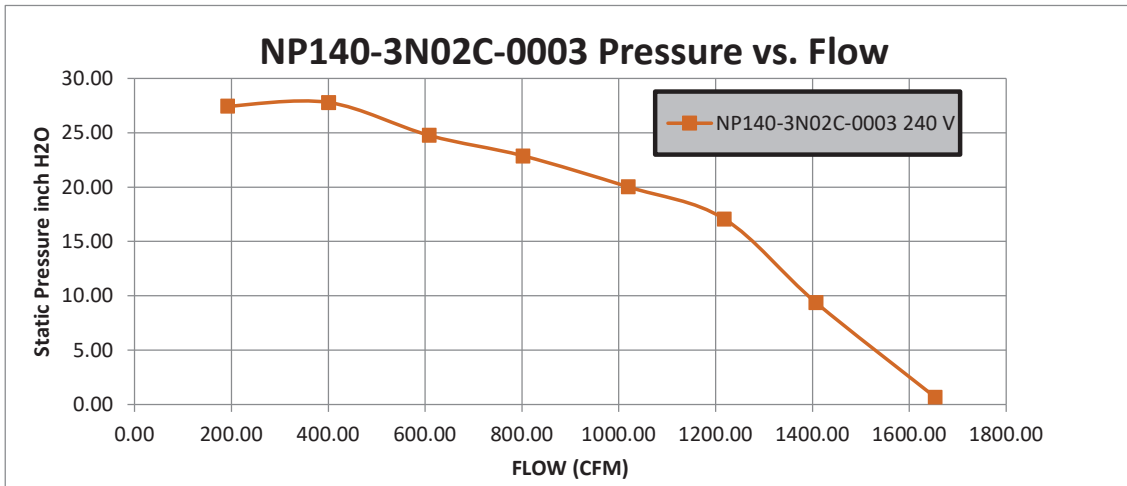
**SPEED CONTROL:** 0-10v, Open Loop,  
4-Pin Power, 5-Pin Control, 3-Pin Status

**TEMPERATURE**

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

**REGULATORY CERTIFICATIONS**

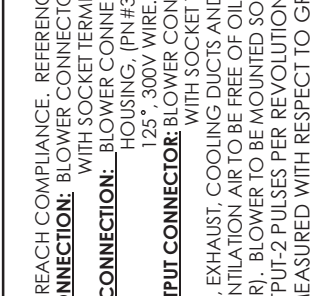
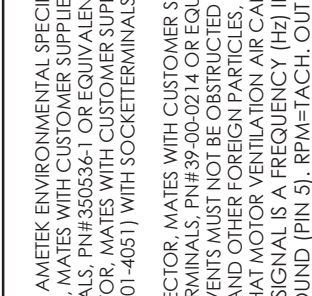
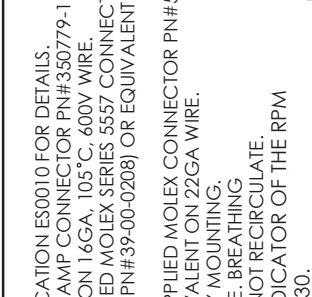
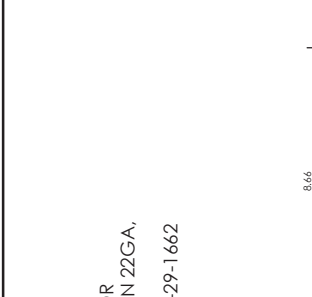
**COMPLIANCE:** RoHS and Reach  
**UL FILE NUMBER:** E94403  
**FULL LOAD AMPS:** 19A



Flow Rate <i>cfm</i>	Static Pressure <i>inch H2O</i>	Total Pressure <i>inch H2O</i>	Current <i>A</i>	Power Demand <i>W</i>	Voltage <i>V</i>	Flow Temp. <i>°C</i>	Rotational Speed <i>rpm</i>	Static Efficiency <i>%</i>	Total Efficiency <i>%</i>
1653.25	0.67	2.06	12.96	3928.26	240.21	22.09	6630	3.30	10.21
1407.13	9.38	10.39	15.05	4657.09	242.15	22.15	7680	33.29	36.88
1217.96	17.07	17.82	15.77	4916.81	242.13	22.18	8580	49.68	51.88
1019.57	20.03	20.56	14.84	4593.62	242.16	22.22	8940	52.24	53.63
802.45	22.88	23.21	13.63	4165.94	242.19	22.30	9270	51.78	52.52
608.23	24.76	24.95	12.40	3744.73	242.20	22.35	9600	47.26	47.62
400.94	27.78	27.86	11.06	3286.32	242.24	22.38	10020	39.82	39.94
192.59	27.44	27.46	8.94	2583.87	242.31	22.45	10080	24.04	24.06

Performance data is for reference only.

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 SOCKET 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 SOCKET 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 SOCKET 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.



THIS PRODUCT HAS BEEN TESTED AND VALIDATED TO BE ACCEPTABLE IN OUR APPLICATION. APPROVED BY: \_\_\_\_\_ PRINT NAME: \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_ COMPANY: \_\_\_\_\_

**POWER CONNECTION**

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

**CONTROL CONNECTION**

PIN #	CONTROL	DESCRIPTION	COLOR
1	OUTPUT	15V/400mA (OPTIONAL)	RED
2	OUTPUT	OPTO ISOLATOR	BLUE
3	INPUT	ANALOG (0-10VDC)	YELLOW
4	INPUT	ANALOG (0-10VDC)	GREEN
5	INPUT	COMMON	BLACK

**STATUS OUTPUT CONNECTION**

PIN #	CONTROL	DESCRIPTION	COLOR
1	OUTPUT	OPTO ISOLATOR	BLUE
2	OUTPUT	OPTO ISOLATOR	BLUE
3	OUTPUT	ISOLATED TRANSISTOR	BLACK
4	OUTPUT	COMMON	BLACK