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High Voltage Brushless DC Blowers

High Voltage Brushless DC Blowers offer variable output for a wide range of vacuum or pressure applications. Standard blower designs offer brushless DC motor drives coupled to high efficiency fan systems in compact, cost effective packages. Standard models are available in a wide range of input voltages. AMETEK Brushless DC Blowers are not designed for, and should not be used in, life sustaining applications. AMETEK Brushless DC Blowers are not 100% sealed and therefore should not be used with flammable or hazardous gases.



Blower Selection

Blower Selection offers a wide variety of standard products available from AMETEK. Nine different blower families are available in standard configurations. These include low voltage and high voltage product lines. The low voltage products provide output pressure up to 97.7" H_2O and flows up to 160.3 CFM. The high voltage products provide outputs up to 169" H_2O/420 mbar (pressure) and flows up to 1100 CFM/1869 m^3/hr.

Windjammer® BRUSHLESS BLOWERS Nautilair

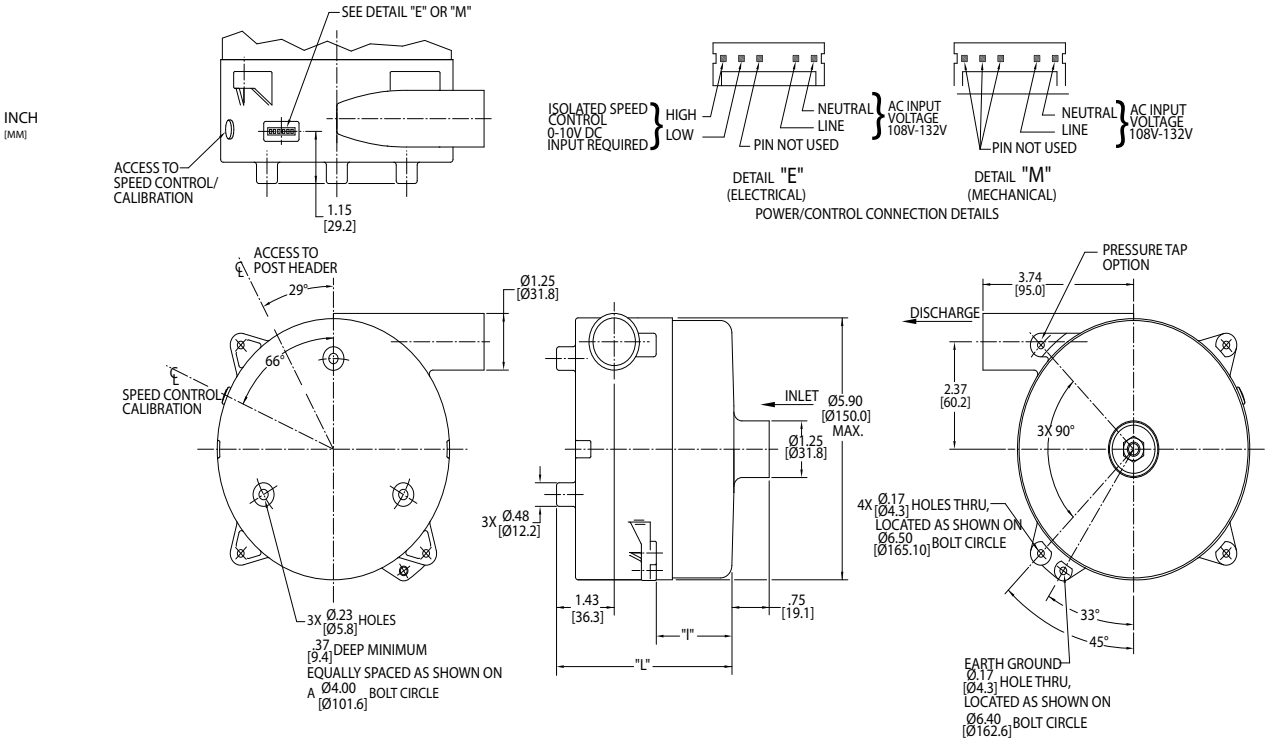
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AMETEK®
PRECISION MOTION CONTROL

High Voltage Brushless DC Blowers

5.7" (145mm) BLDC Thru Flow Blower

250 Watt, 120 Volt Standard Flow



		Part/ Model Number			
Specification	Units	116626	116629	116627	116630
Stages	-	1	1	2	2
Max Sealed Vacuum	in. H2O	28.4	28.4	50.0	50.0
	mbar	70.7	70.7	124.6	124.6
Max Sealed Pressure	in. H2O	29.3	29.3	50.6	50.6
	mbar	73	73	126	126
Max Flow Rate	CFM	64.5	64.5	66	66
	m3/hr	109.7	109.7	112.2	112.2
Length (I)	Inches	0.69	0.69	1.60	1.60
	mm	17.5	17.5	40.6	40.6
Length (L)	Inches	3.16	3.16	4.07	4.07
	mm	80.3	80.3	103.4	103.4
Speed Control	-	Mechanical	Electrical	Mechanical	Electrical

Notes:

- **Input Voltage Range:** 108-132 Volts AC RMS, 50/60 Hz., Single Phase.
- **Input Current:** 5 amps AC RMS
- **Operating Temperature (Ambient Air and Working Air):** 0˚ C to 50˚ C
- **Storage Temperature:** -40˚ C to 85˚ C
- **Dielectric Testing:** 1500 Volts AC RMS 60 Hz applied for one second between input pins and ground, 3mA leakage maximum.
- **Speed Control:** E (Electrical) Pulse Width Modification or Analog input voltage (user supplied), 0 to 10 Volts DC,10mA maximum, 3 to 15 Volts DC. Access to sensitivity adjustment for 0 to 10 VDC speed control. (Ref. pin connection).
  M (Mechanical): A potentiometer is available for speed control of the blower. The potentiometer can be preset for a specific speed. Access for speed adjustment located in blower housing.
- **Approximate Weight:** 6 Lbs. / 2.2 Kg.
- **Regulatory Agency Certification:** Underwriters Laboratories, Inc. qualified per UL507 under File E-94403. Canadian Standards Association qualified per C22.2#113 under File LR 43448.
- **Miscellaneous:** Intake and exhaust tubes, all cooling ducts and vents must not be obstructed. Intake and exhaust must be free of grease, oil and foreign particles. Amp housing 640250-6 w/SL-156 contacts (suppied by customer) mates with post header assembly.
  Mating harness available upon request.
  Optional IntelliGen™ controller available for customized performance and features including: tachometer output card; Universal AC input (100V-240V).

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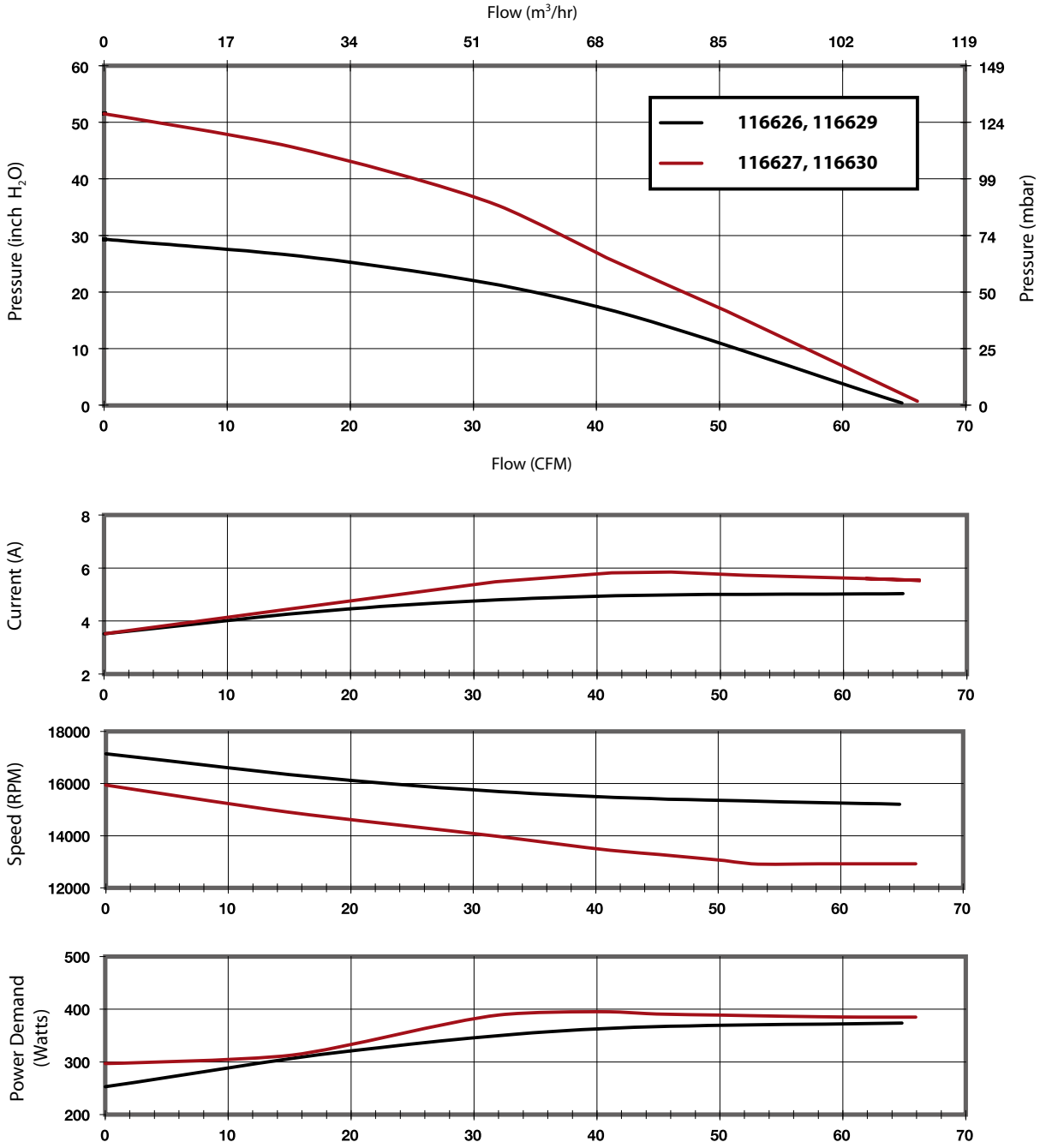
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AMETEK PRECISION MOTION CONTROL

5.7" (145mm) BLDC Thru Flow Blower

250 Watt, 120 Volt Standard Flow

Typical Performance



Data presented represents blower performance at STANDARD AIR DENSITY, .075 lb/ft³ (29.92" Hg, Sea Level, 68° F)
Vacuum performance available upon request.

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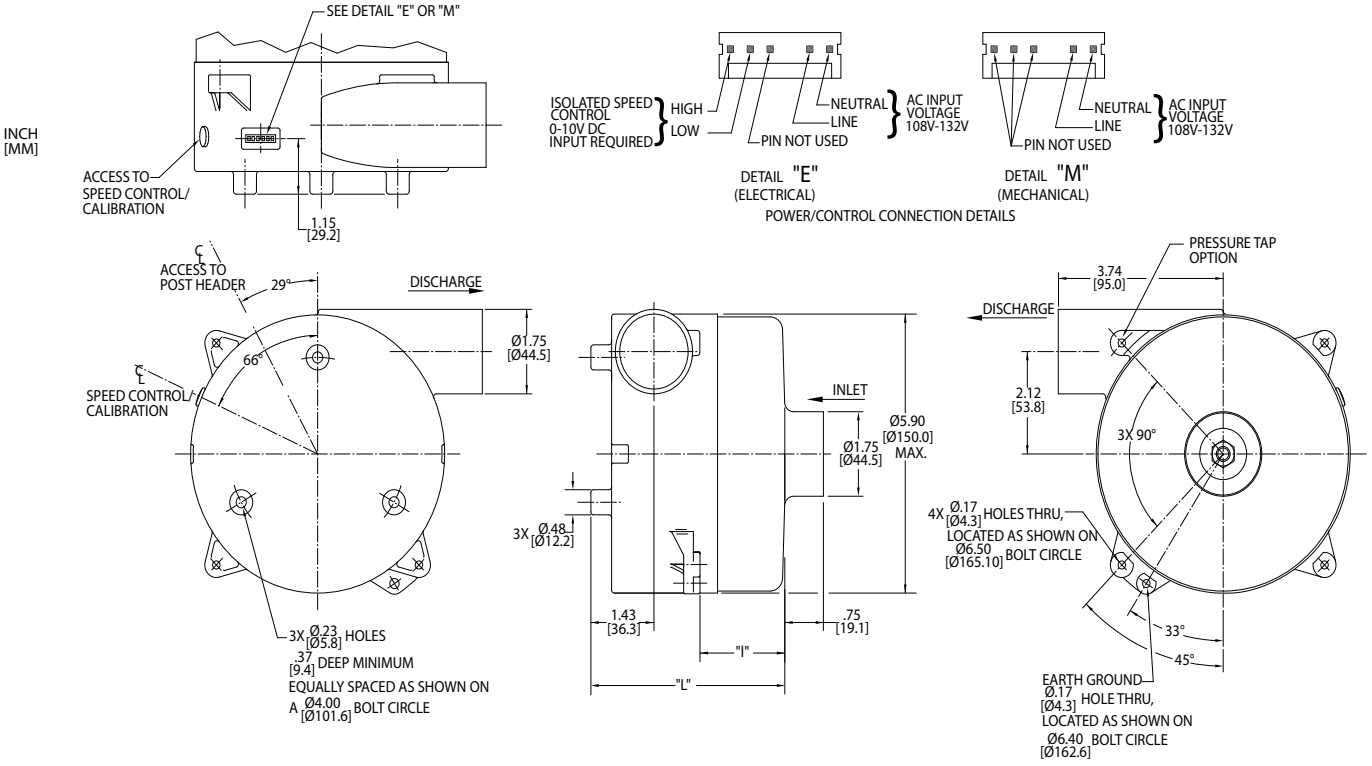
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250 Watt, 120 Volt High Flow



		Part/ Model Number			
Specification	Units	116644 M	116647 E	116645 M	116648 E
Stages	-	1	1	2	2
Max Sealed Vacuum	in. H2O	26.5	26.5	46.7	46.7
	mbar	66	66	116.3	116.3
Max Sealed Pressure	in. H2O	27.3	27.3	48.1	48.1
	mbar	68	68	119.8	119.8
Max Flow Rate	CFM	130.5	130.5	98.2	98.2
	m3/hr	221.9	221.9	166.9	166.9
Length (l)	Inches	0.76	0.76	1.81	1.81
	mm	19.3	19.3	46	46
Length (L)	Inches	3.23	3.23	4.28	4.28
	mm	82	82	108.7	108.7
Speed Control	-	Mechanical	Electrical	Mechanical	Electrical

Notes:

- **Input Voltage Range:** 108-132 Volts AC RMS, 50/60 Hz., Single Phase.
- **Input Current:** 5 amps AC RMS
- **Operating Temperature (Ambient Air and Working Air):** 0˚ C to 50˚ C
- **Storage Temperature:** -40˚ C to 85˚ C
- **Dielectric Testing:** 1500 Volts AC RMS 60 Hz applied for one second between input pins and ground, 3mA leakage maximum.
- **Speed Control:** E (Electrical) Pulse Width Modification or Analog input voltage (user supplied), 0 to 10 Volts DC,10mA maximum, 3 to 15 Volts DC. Access to sensitivity adjustment for 0 to 10 VDC speed control. (Ref. pin connection).
  M (Mechanical): A potentiometer is available for speed control of the blower. The potentiometer can be preset for a specific speed. Access for speed adjustment located in blower housing.
- **Approximate Weight:** 6 Lbs. / 2.2 Kg.
- **Regulatory Agency Certification:** Underwriters Laboratories, Inc. qualified per UL507 under File E-94403. Canadian Standards Association qualified per C22.2#113 under File LR 43448.
- **Miscellaneous:** Intake and exhaust tubes, all cooling ducts and vents must not be obstructed. Intake and exhaust must be free of grease, oil and foreign particles. Amp housing 640250-6 w/SL-156 contacts (suppied by customer) mates with post header assembly.
  Mating harness available upon request.
  Optional IntelliGen™ controller available for customized performance and features including: tachometer output card; Universal AC input (100V-240V).

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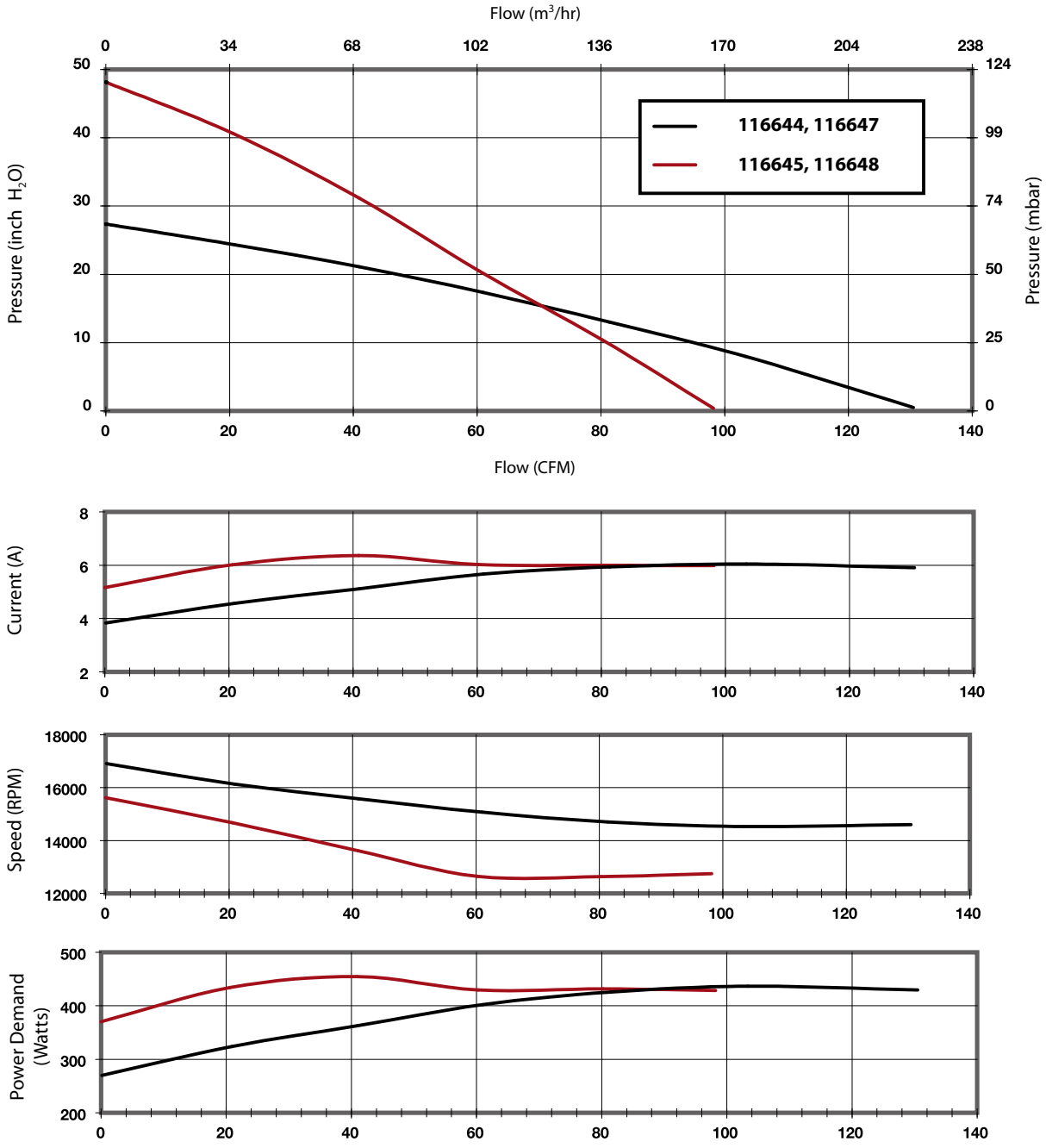
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AMETEK
PRECISION MOTION CONTROL

5.7" (145mm) BLDC Thru Flow Blower

250 Watt, 120 Volt High Flow

Typical Performance



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Vacuum performance available upon request.

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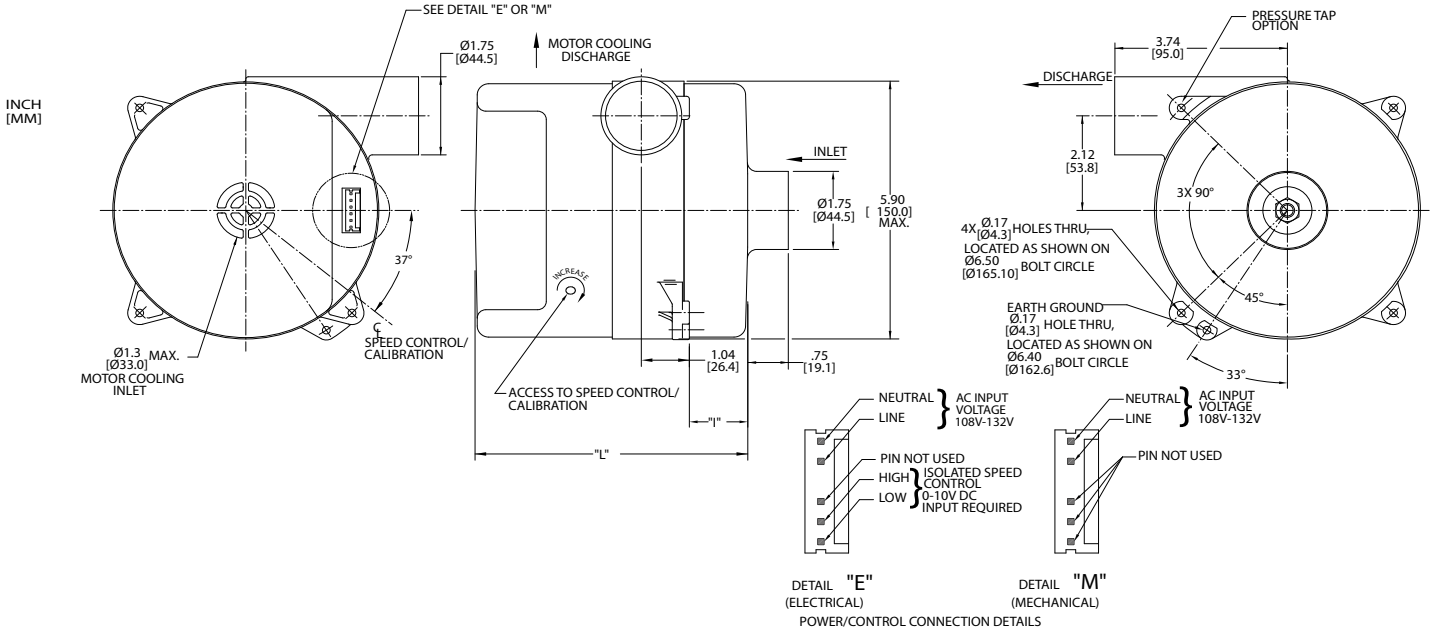
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PRECISION MOTION CONTROL

High Voltage Brushless DC Blowers

5.7" (145mm) BLDC Bypass Blower

250 Watt, 120 Volt High Flow



		Part/ Model Number					
Specification	Units	116637	116643	116636	116642	116635	116641
Stages	-	1	1	2	2	3	3
Max Sealed Vacuum	in. H2O	25.2	25.2	49.7	49.7	67.2	67.2
	mbar	62.8	62.8	123.8	123.8	167.4	167.4
Max Sealed Pressure	in. H2O	26.0	26.0	51.2	51.2	69.3	69.3
	mbar	64.8	64.8	127.5	127.5	172.6	172.6
Max Flow Rate	CFM	130.5	130.5	103.9	103.9	82.3	82.3
	m3/hr	221.9	221.9	176.6	176.6	139.9	139.9
Length (I)	Inches	0.47	0.47	1.53	1.53	2.53	2.53
	mm	11.9	11.9	38.9	38.9	64.3	64.3
Length (L)	Inches	5.22	5.22	6.27	6.27	7.28	7.28
	mm	132.6	132.6	159.3	159.3	184.9	184.9
Speed Control	-	Mechanical	Electrical	Mechanical	Electrical	Mechanical	Electrical

Notes:

- **Input Voltage Range:** 108-132 Volts AC RMS, 50/60 Hz., Single Phase.
- **Input Current:** 5 amps AC RMS
- **Operating Temperature (Ambient Air and Working Air):** 0˚ C to 50˚ C
- **Storage Temperature:** -40˚ C to 85˚ C
- **Dielectric Testing:** 1500 Volts AC RMS 60 Hz applied for one second between input pins and ground, 3mA leakage maximum.
- **Speed Control:** E (Electrical) Pulse Width Modification or Analog input voltage (user supplied), 0 to 10 Volts DC,10mA maximum, 3 to 15 Volts DC. Access to sensitivity adjustment for 0 to 10 VDC speed control. (Ref. pin connection).
  M (Mechanical): A potentiometer is available for speed control of the blower. The potentiometer can be preset for a specific speed. Access for speed adjustment located in blower housing.
- **Approximate Weight:** 6 Lbs. / 2.2 Kg.
- **Regulatory Agency Certification:** Underwriters Laboratories, Inc. qualified per UL507 under File E-94403. Canadian Standards Association qualified per C22.2#113 under File LR 43448.
- **Miscellaneous:** Intake and exhaust tubes, all cooling ducts and vents must not be obstructed. Intake and exhaust must be free of grease, oil and foreign particles. Amp housing 640250-6 w/SL-156 contacts (suppied by customer) mates with post header assembly.
  Mating harness available upon request.
  Optional IntelliGen™ controller available for customized performance and features including: tachometer output card; Universal AC input (100V-240V).

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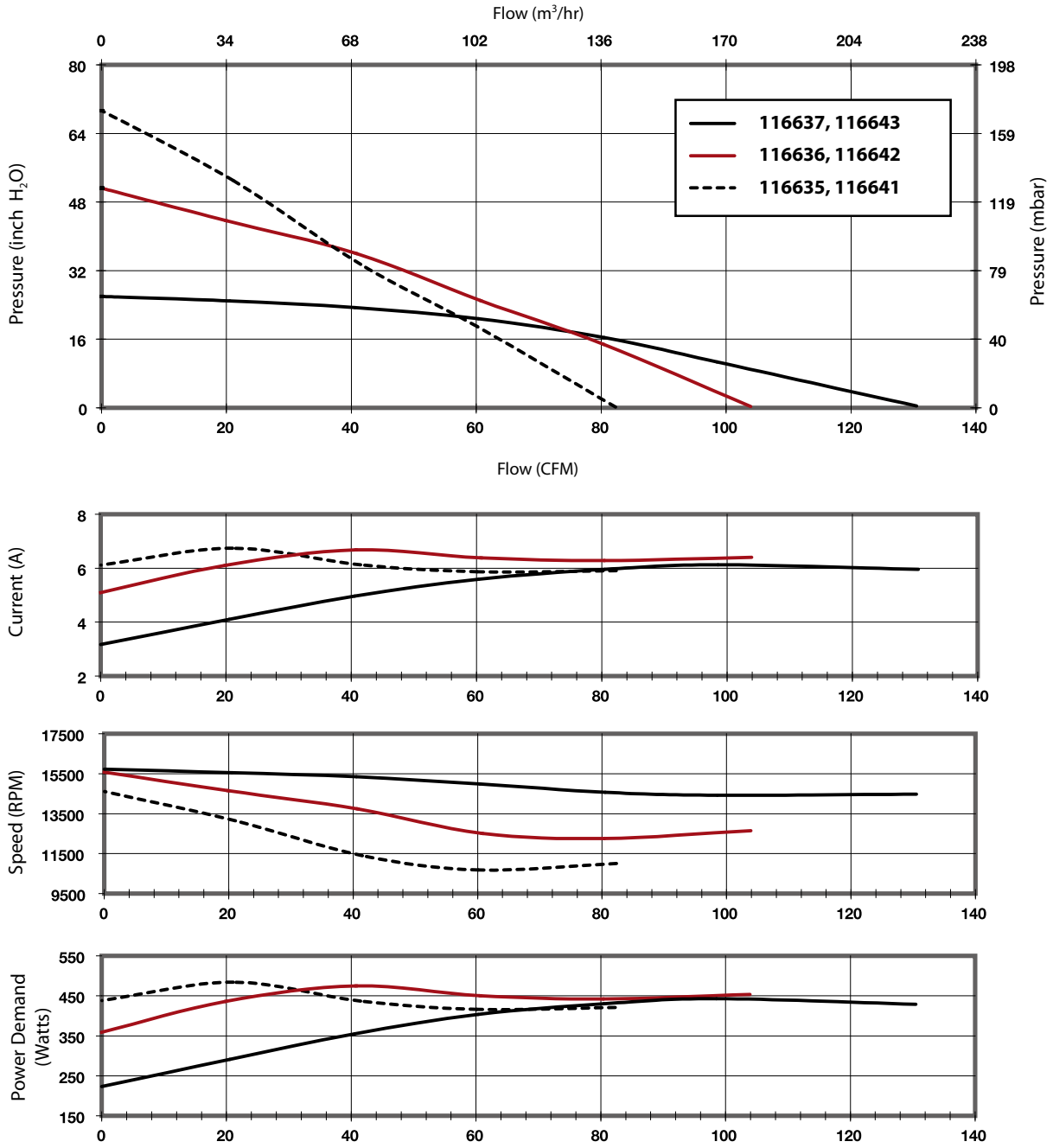
AMETEK PRECISION MOTION CONTROL

5.7" (145mm) BLDC Bypass Blower

250 Watt, 120 Volt High Flow

Windjammer® BRUSHLESS BLOWERS

Typical Performance



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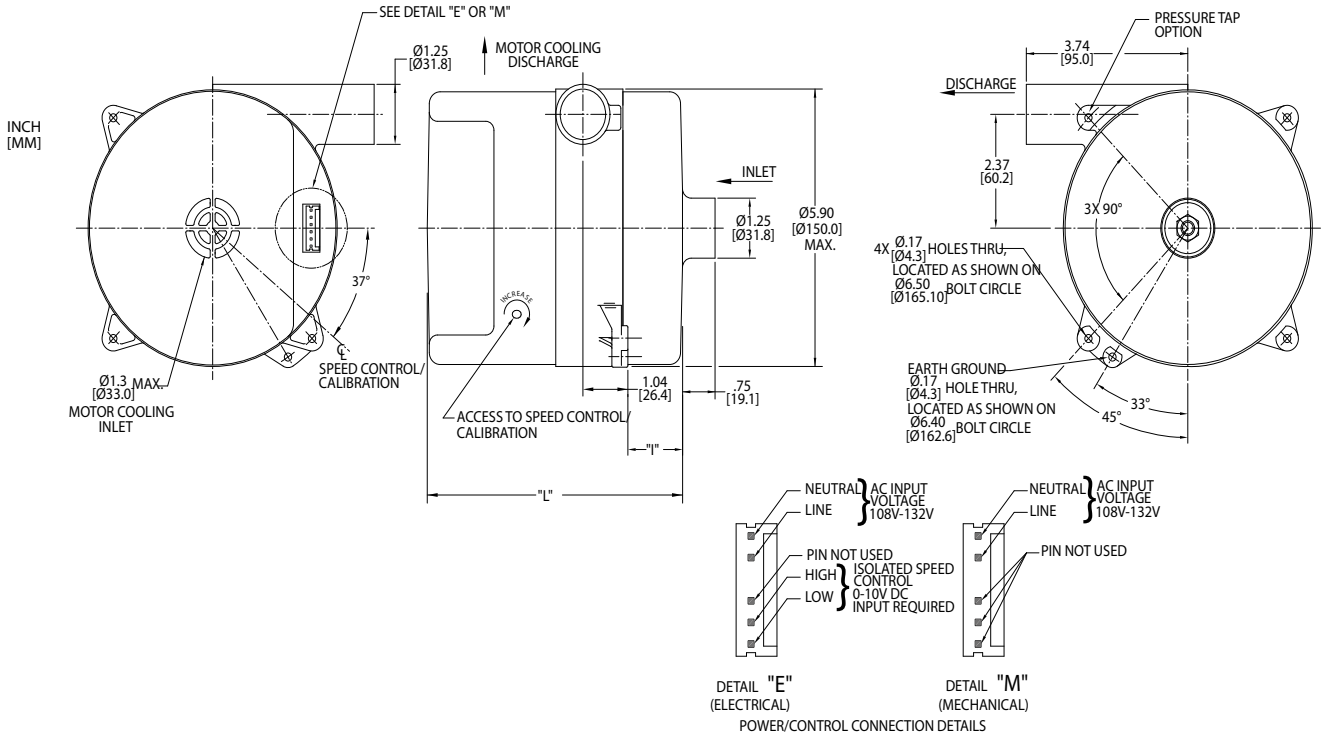
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High Voltage Brushless DC Blowers

5.7" (145mm) BLDC Bypass Blower

Windjammer® BRUSHLESS BLOWERS

250 Watt, 120 Volt Standard Flow



		Part/ Model Number					
Specification	Units	116634	116640	116633	116639	116632	116638
Stages	-	1	1	2	2	3	3
Max Sealed Vacuum	in. H2O	29.5	29.5	40.1	40.1	78.4	78.4
	mbar	73.5	73.5	99.9	99.9	195.3	195.3
Max Sealed Pressure	in. H2O	30.4	30.4	41.3	41.3	80.5	80.5
	mbar	75.7	75.7	102.9	102.9	200.5	200.5
Max Flow Rate	CFM	75.9	75.9	65.6	65.6	56.4	56.4
	m3/hr	129	129	111.5	111.5	95.9	95.9
Length (I)	Inches	0.33	0.33	1.25	1.25	2.14	2.14
	mm	8.4	8.4	31.8	31.8	54.4	54.4
Length (L)	Inches	5.08	5.08	6.35	6.35	6.89	6.89
	mm	129	129	161.3	161.3	175	175
Speed Control	-	Mechanical	Electrical	Mechanical	Electrical	Mechanical	Electrical

Notes:

- **Input Voltage Range:** 108-132 Volts AC RMS, 50/60 Hz., Single Phase.
- **Input Current:** 5 amps AC RMS
- **Operating Temperature (Ambient Air and Working Air):** 0˚ C to 50˚ C
- **Storage Temperature:** -40˚ C to 85˚ C
- **Dielectric Testing:** 1500 Volts AC RMS 60 Hz applied for one second between input pins and ground, 3mA leakage maximum.
- **Speed Control:** E (Electrical) Pulse Width Modification or Analog input voltage (user supplied), 0 to 10 Volts DC,10mA maximum, 3 to 15 Volts DC. Access to sensitivity adjustment for 0 to 10 VDC speed control. (Ref. pin connection).
  M (Mechanical): A potentiometer is available for speed control of the blower. The potentiometer can be preset for a specific speed. Access for speed adjustment located in blower housing.
- **Approximate Weight:** 6 Lbs. / 2.2 Kg.
- **Regulatory Agency Certification:** Underwriters Laboratories, Inc. qualified per UL507 under File E-94403. Canadian Standards Association qualified per C22.2#113 under File LR 43448.
- **Miscellaneous:** Intake and exhaust tubes, all cooling ducts and vents must not be obstructed. Intake and exhaust must be free of grease, oil and foreign particles. Amp housing 640250-6 w/SL-156 contacts (suppied by customer) mates with post header assembly.
  Mating harness available upon request.
  Optional IntelliGen™ controller available for customized performance and features including: tachometer output card; Universal AC input (100V-240V).

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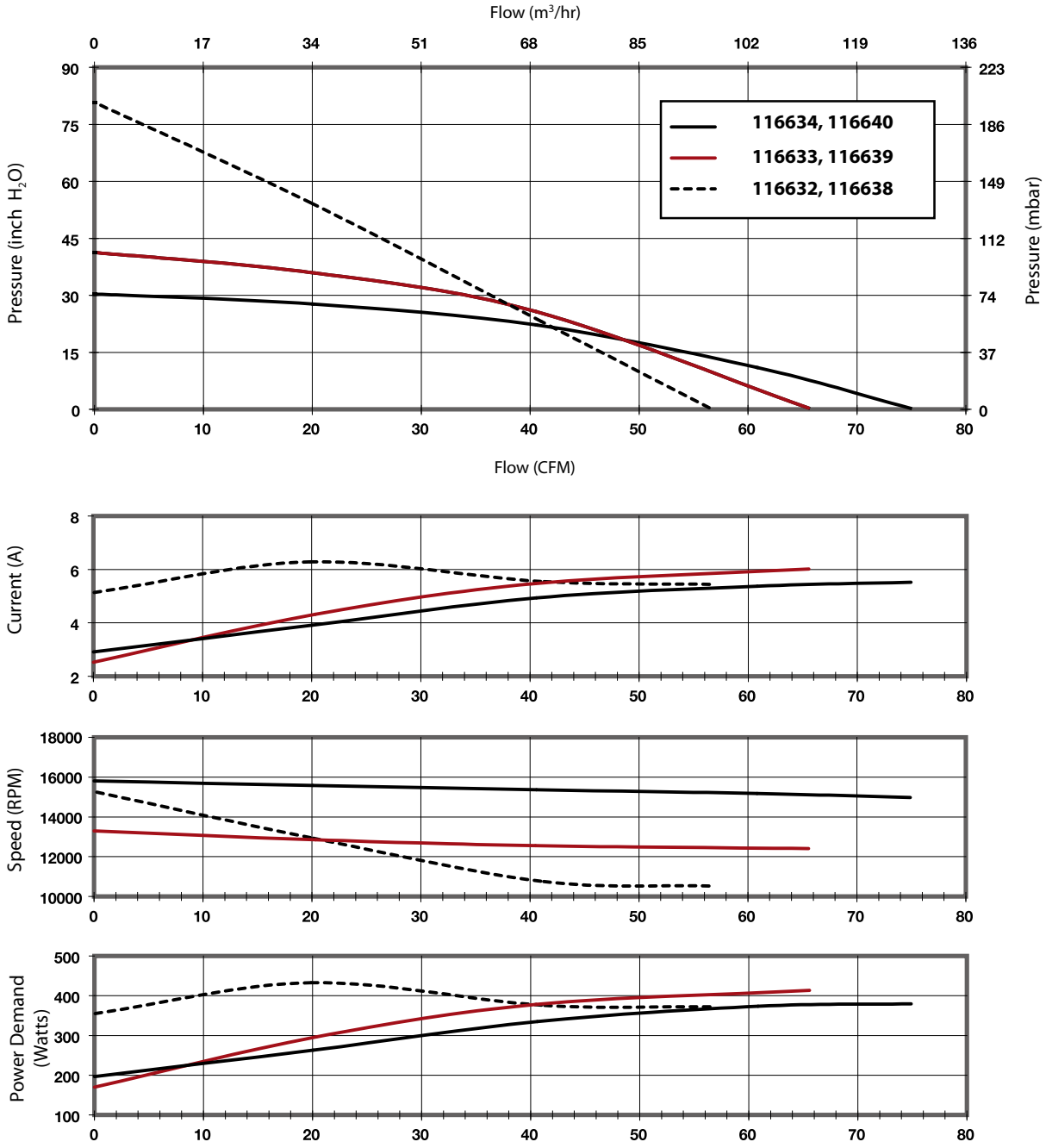
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AMETEK® PRECISION MOTION CONTROL

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250 Watt, 120 Volt Standard Flow

Typical Performance



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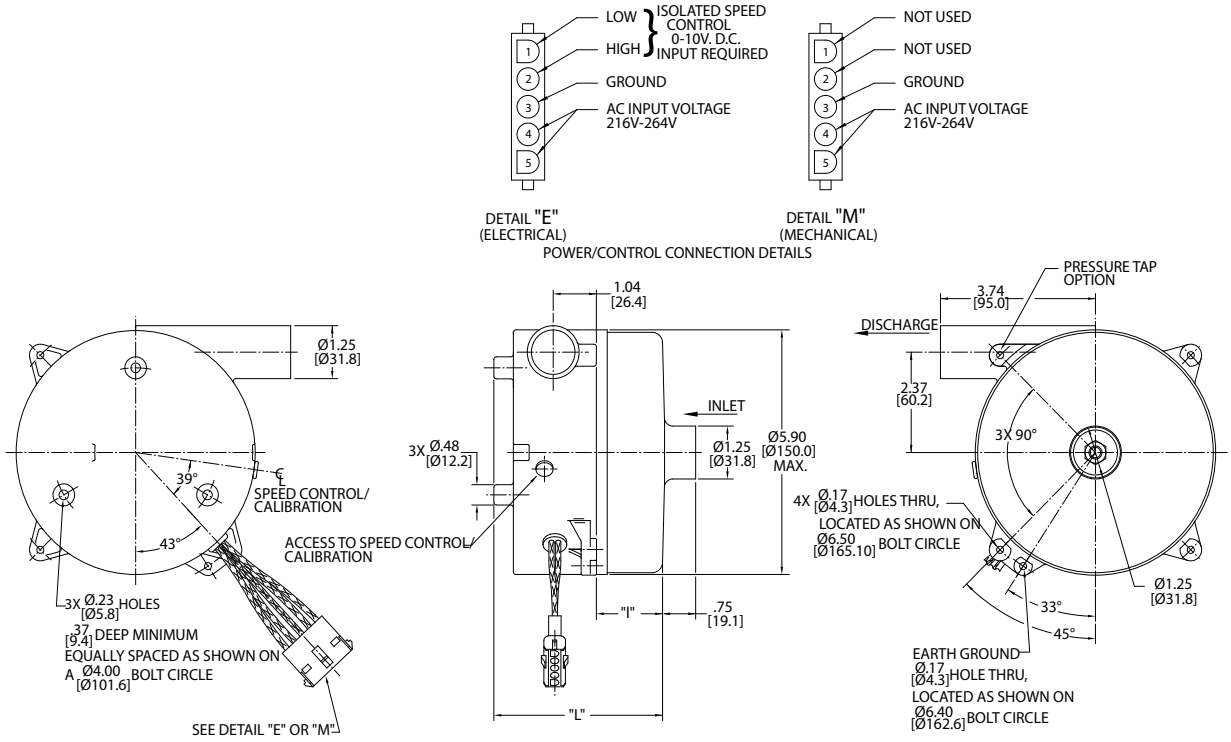
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PRECISION MOTION CONTROL

High Voltage Brushless DC Blowers

5.7" (145mm) BLDC Thru Flow Blower

400 Watt, 240 Volt Standard Flow

INCH
[MM]



		Part/ Model Number	
Specification	Units	117629	117630
Stages	-	1	2
Max Sealed Vacuum	in. H2O	28	47
	mbar	69.7	117.1
Max Sealed Pressure	in. H2O	31	50
	mbar	77.2	124.6
Max Airflow	CFM	67	65
	m3/hr	113.9	110.5
Length (I)	Inches	.69	1.6
	mm	17.5	40.6
Length (L)	Inches	3.21	4.12
	mm	81.5	104.6
Speed Control	-	Electrical	Electrical

Notes:

- **Input Voltage Range:** 216-264 Volts AC RMS, 50/60 Hz., Single Phase.
- **Input Current:** 5 amps AC RMS
- **Operating Temperature (Ambient Air and Working Air):** 0˚ C to 50˚ C
- **Storage Temperature:** -40˚ C to 85˚ C
- **Dielectric Testing:** 1800 Volts AC RMS 60 Hz applied for one second between input pins and ground, 3mA leakage maximum.
- **Speed Control:** E (Electrical) Pulse Width Modification or Analog input voltage (user supplied), 0 to 10 Volts DC, 10mA maximum, 3 to 15 Volts DC. Access to sensitivity adjustment for 0 to 10 VDC speed control. (Ref. pin connection).
  M (Mechanical): A potentiometer is available for speed control of the blower. The potentiometer can be preset for a specific speed. Access for speed adjustment located in blower housing.
- **Approximate Weight:** 6 Lbs. / 2.2 Kg.
- **Regulatory Agency Certification:** Underwriters Laboratories, Inc. qualified per UL507 under File E-94403. Canadian Standards Association qualified per C22.2#113 under File LR 43448.
- **Miscellaneous:** Intake and exhaust tubes, all cooling ducts and vents must not be obstructed. Intake and exhaust must be free of grease, oil and foreign particles. Amp housing 350809-1 with sockets for 18 awg lead wire (suppied by customer) mates with post header assembly.
  Mating harness available upon request.
  Optional IntelliGen™ controller available for customized performance and features including; tachometer output card; Universal AC input (100V-240V).

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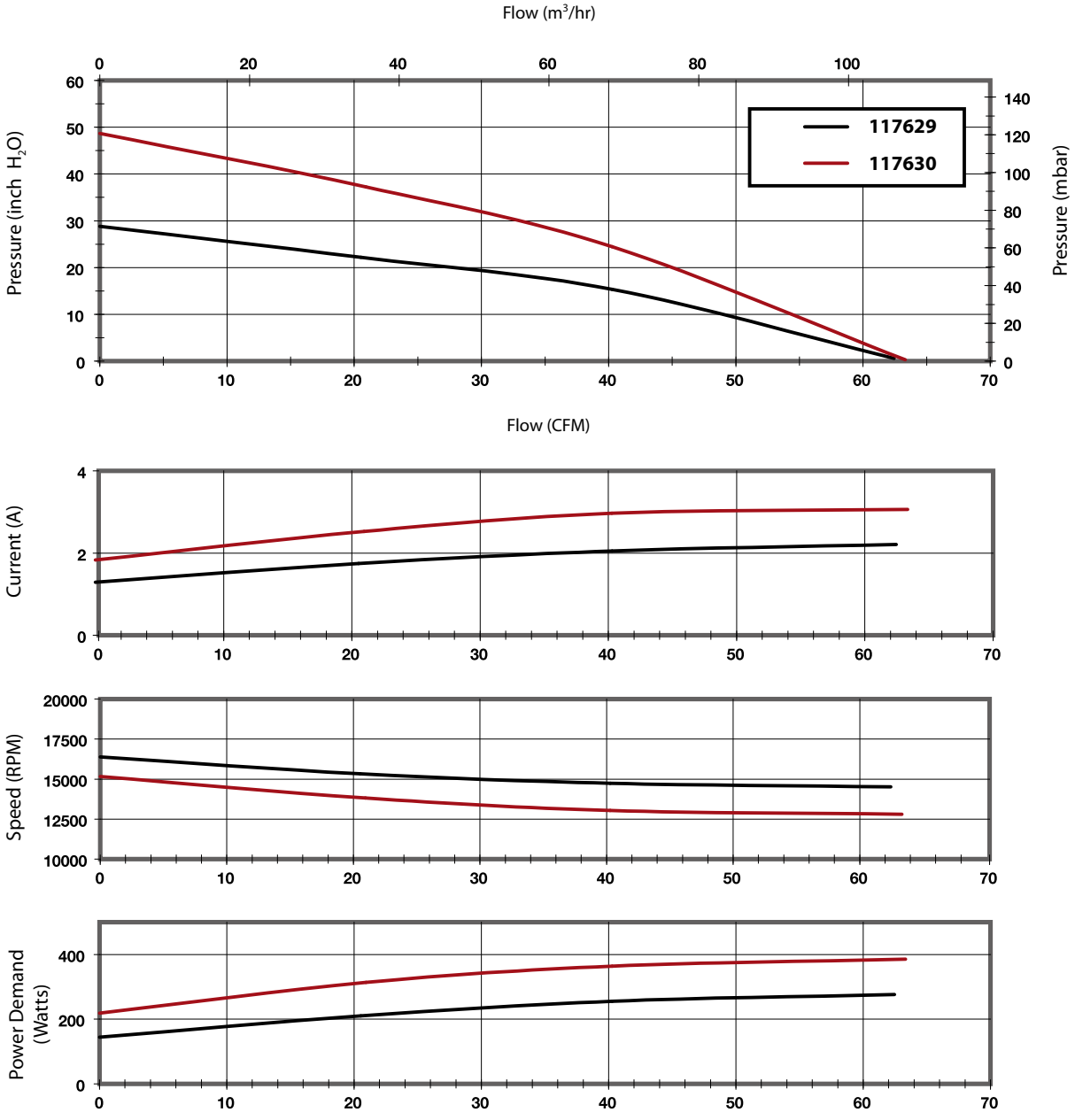
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Vacuum performance available upon request.

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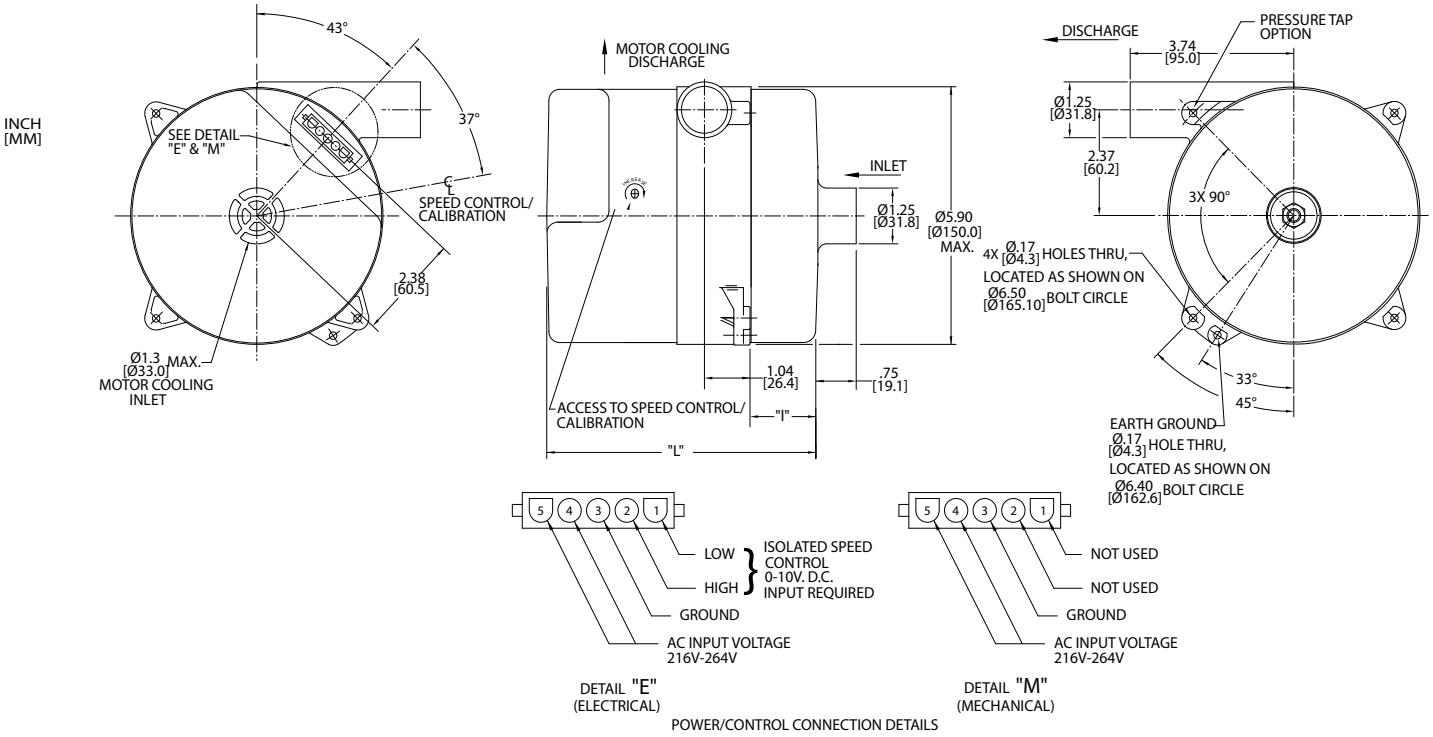
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AMETEK®
PRECISION MOTION CONTROL

High Voltage Brushless DC Blowers

5.7" (145mm) BLDC Bypass Blower

400 Watt, 240 Volt Standard Flow



		Part/ Model Number					
Specification	Units	117634	117640	117633	117639	117632	117638
Stages	-	1	1	2	2	3	3
Max Sealed Vacuum	in. H2O	28	28	45	45	60	60
	mbar	69.7	69.7	112.1	112.1	149.5	149.5
Max Sealed Pressure	in. H2O	30	30	51	51	72	72
	mbar	74.7	74.7	127	127	179.4	179.4
Max Flow Rate	CFM	70	70	67	67	65	65
	m3/hr	119	119	113.9	113.9	110.5	110.5
Length (I)	Inches	2.53	2.53	1.25	1.25	2.14	2.14
	mm	64.3	64.3	31.8	31.8	54.4	54.4
Length (L)	Inches	5.08	5.08	5.99	5.99	6.89	6.89
	mm	129	129	152.1	152.1	175	175
Speed Control	-	Mechanical	Electrical	Mechanical	Electrical	Mechanical	Electrical
Windjammer Express			✓			✓	✓

Notes:

- **Input Voltage Range:** 216-264 Volts AC RMS, 50/60 Hz., Single Phase.
- **Input Current:** 5 amps AC RMS
- **Operating Temperature (Ambient Air and Working Air):** 0˚ C to 50˚ C
- **Storage Temperature:** -40˚ C to 85˚ C
- **Dielectric Testing:** 1800 Volts AC RMS 60 Hz applied for one second between input pins and ground, 3mA leakage maximum.
- **Speed Control:** E (Electrical) Pulse Width Modification or Analog input voltage (user supplied), 0 to 10 Volts DC, 10mA maximum, 3 to 15 Volts DC. Access to sensitivity adjustment for 0 to 10 VDC speed control. (Ref. pin connection).
  M (Mechanical): A potentiometer is available for speed control of the blower. The potentiometer can be preset for a specific speed. Access for speed adjustment located in blower housing.
- **Approximate Weight:** 6 Lbs. / 2.2 Kg.
- **Regulatory Agency Certification:** Underwriters Laboratories, Inc. qualified per UL507 under File E-94403. Canadian Standards Association qualified per C22.2#113 under File LR 43448.
- **Miscellaneous:** Intake and exhaust tubes, all cooling ducts and vents must not be obstructed. Intake and exhaust must be free of grease, oil and foreign particles. Amp housing 350809-1 with sockets for 18 awg lead wire (suppied by customer) mates with post header assembly.
  Mating harness available upon request.
  Optional IntelliGen™ controller available for customized performance and features including; tachometer output card; Universal AC input (100V-240V).

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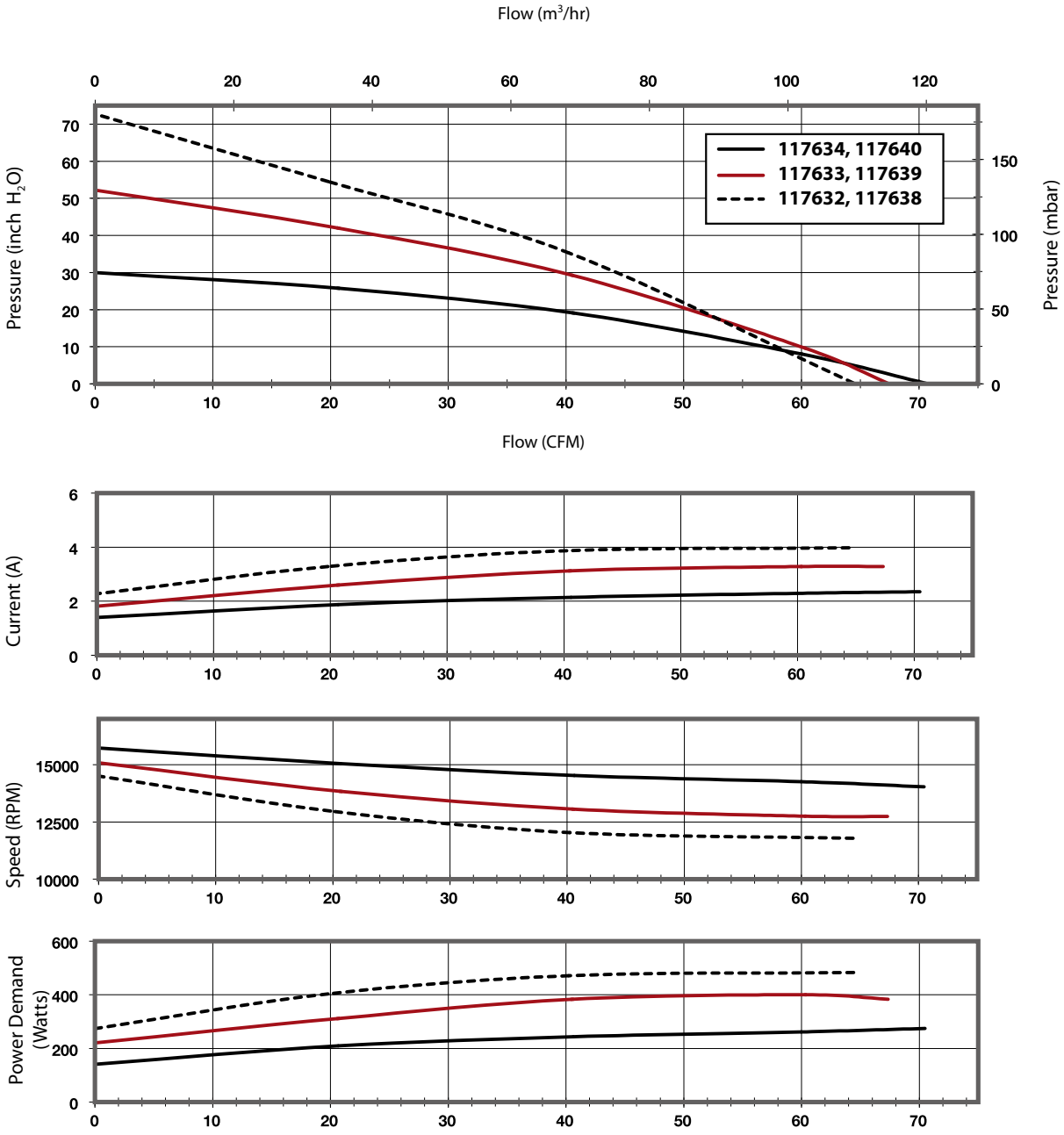
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AMETEK PRECISION MOTION CONTROL

5.7" (145mm) BLDC Bypass Blower

400 Watt, 240 Volt Standard Flow

Typical Performance



Data presented represents blower performance at STANDARD AIR DENSITY, WHICH IS: .075 lb./ft^3 (29.92" Hg, Sea Level, 68° F). Vacuum performance available upon request.

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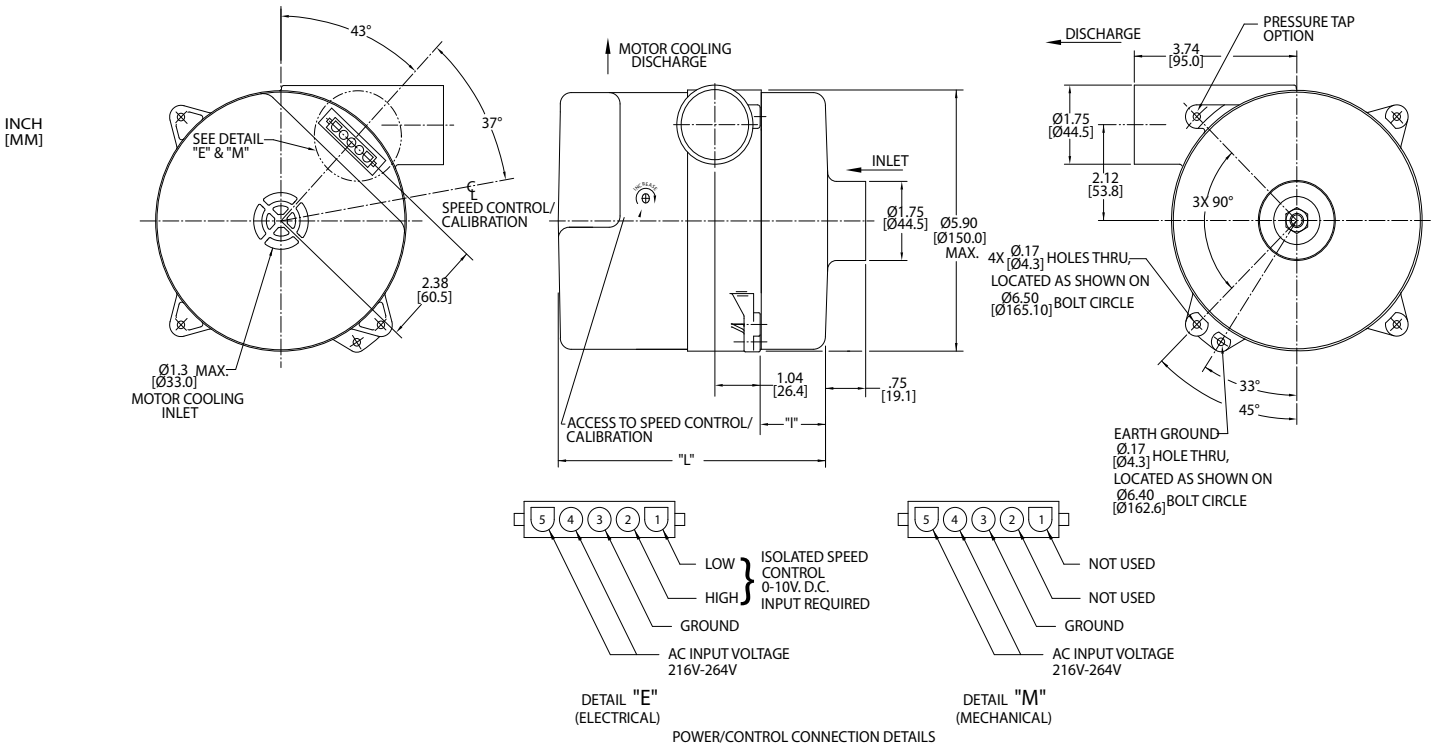
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PRECISION MOTION CONTROL

High Voltage Brushless DC Blowers

5.7" (145mm) BLDC Bypass Blower

400 Watt, 240 Volt High Flow



		Part/ Model Number					
Specification	Units	117637	117643	117636	117642	117635	117641
Stages	-	1	1	2	2	3	3
Max Sealed Vacuum	in. H2O	22	22	39	39	53	53
	mbar	54.8	54.8	97.1	97.1	132	132
Max Sealed Pressure	in. H2O	24	24	45	45	61	61
	mbar	59.8	59.8	112.1	112.1	152	152
Max Flow Rate	CFM	106	106	95	95	90	90
	m3/hr	180.2	180.2	161.5	161.5	153	153
Length (I)	Inches	.47	.47	1.53	1.53	2.53	2.53
	mm	11.9	11.9	38.9	38.9	64.3	64.3
Length (L)	Inches	5.22	5.22	6.27	6.27	7.28	7.28
	mm	132.6	132.6	159.3	159.3	184.9	184.9
Speed Control	-	Mechanical	Electrical	Mechanical	Electrical	Mechanical	Electrical
Windjammer Express		✓	✓	✓	✓		✓

Notes:

- **Input Voltage Range:** 216-264 Volts AC RMS, 50/60 Hz., Single Phase.
- **Input Current:** 5 amps AC RMS
- **Operating Temperature (Ambient Air and Working Air):** 0˚ C to 50˚ C
- **Storage Temperature:** -40˚ C to 85˚ C
- **Dielectric Testing:** 1800 Volts AC RMS 60 Hz applied for one second between input pins and ground, 3mA leakage maximum.
- **Speed Control:** E (Electrical) Pulse Width Modification or Analog input voltage (user supplied), 0 to 10 Volts DC, 10mA maximum, 3 to 15 Volts DC. Access to sensitivity adjustment for 0 to 10 VDC speed control. (Ref. pin connection).
  M (Mechanical): A potentiometer is available for speed control of the blower. The potentiometer can be preset for a specific speed. Access for speed adjustment located in blower housing.
- **Approximate Weight:** 6 Lbs. / 2.2 Kg.
- **Regulatory Agency Certification:** Underwriters Laboratories, Inc. qualified per UL507 under File E-94403. Canadian Standards Association qualified per C22.2#113 under File LR 43448.
- **Miscellaneous:** Intake and exhaust tubes, all cooling ducts and vents must not be obstructed. Intake and exhaust must be free of grease, oil and foreign particles. Amp housing 350809-1 with sockets for 18 awg lead wire (suppied by customer) mates with post header assembly.
  Mating harness available upon request.
  Optional IntelliGen™ controller available for customized performance and features including; tachometer output card; Universal AC input (100V-240V).

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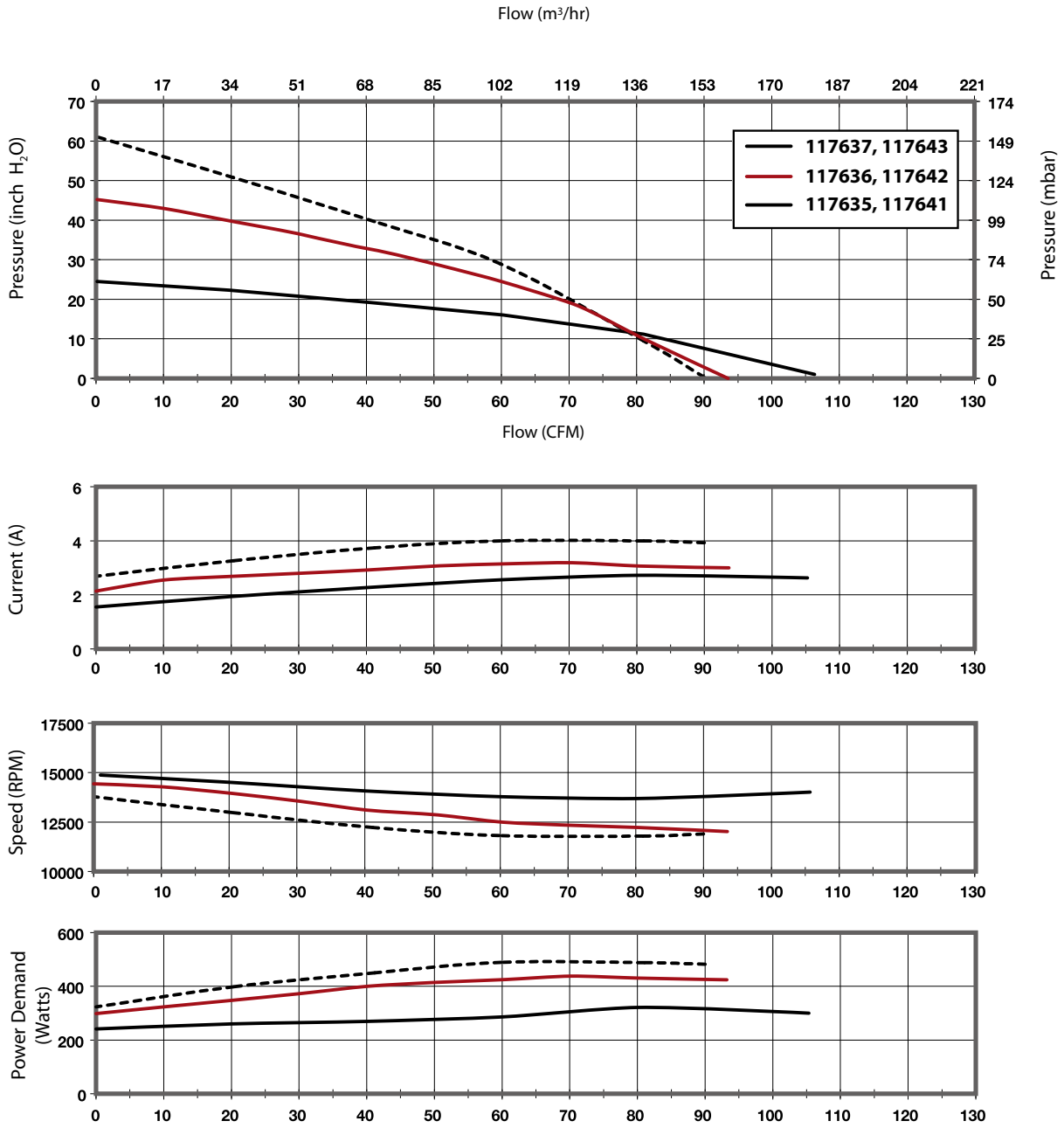
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PRECISION MOTION CONTROL

5.7" (145mm) BLDC Bypass Blower

400 Watt, 240 Volt High Flow

Typical Performance



Data presented represents blower performance at STANDARD AIR DENSITY, .075 lb/ft^3 (29.92" Hg, Sea Level, 68° F)
Vacuum performance available upon request.

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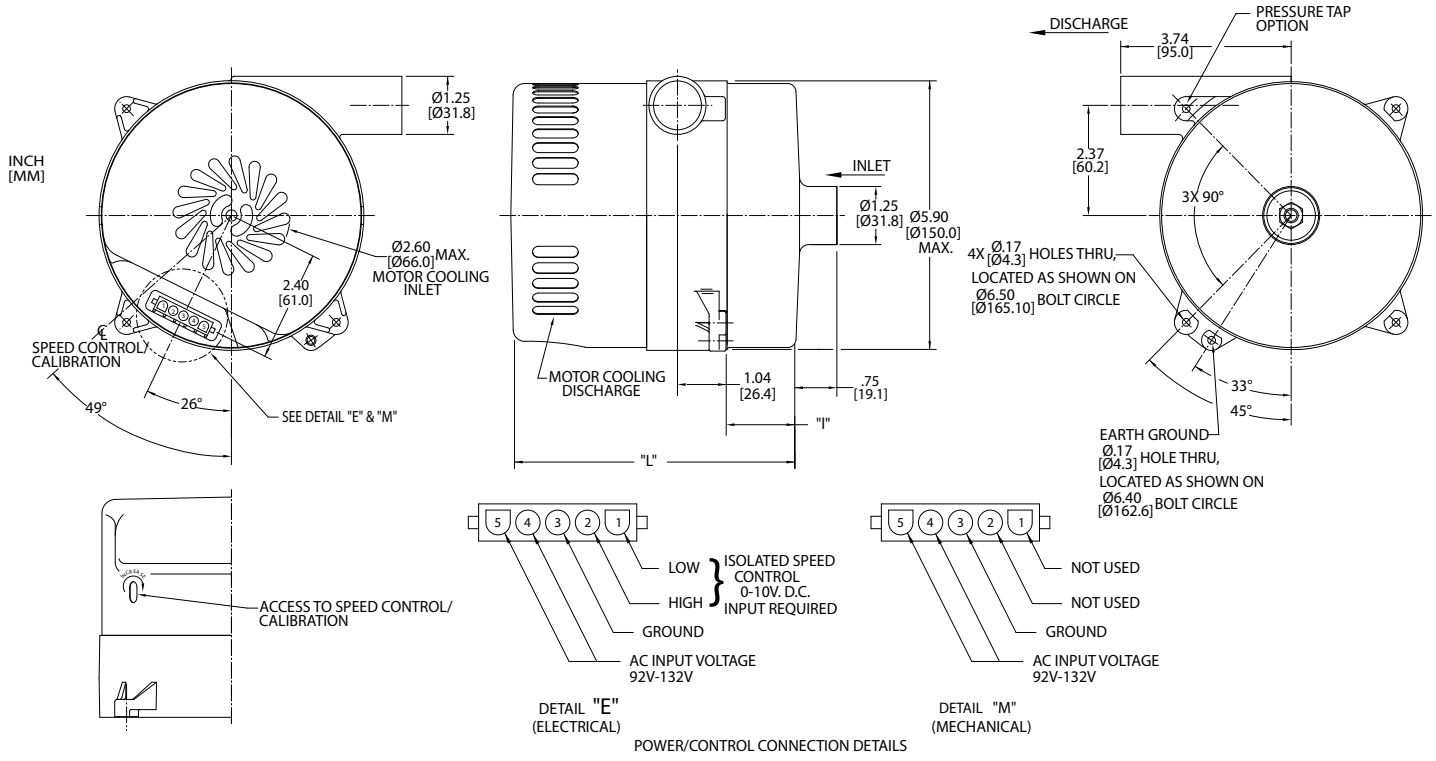
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PRECISION MOTION CONTROL

High Voltage Brushless DC Blowers

5.7" (145mm) BLDC Bypass Blower

800 Watt,120 Volt Standard Flow - IntelliGen(TM)



Specification	Units	Part/ Model Number 117418	117417
Stages	-	3	3
Max Sealed Vacuum	in. H2O	102	102
	mbar	254.1	254.1
Max Sealed Pressure	in. H2O	122	122
	mbar	303.9	303.9
Max Flow Rate	CFM	76	76
	m3/hr	129.2	129.2
Length (I)	Inches	2.12	2.12
	mm	53.8	53.8
Length (L)	Inches	6.87	6.87
	mm	174.5	174.5
Speed Control	-	Mechanical	Electrical
Windjammer Express		✓	✓

Notes:

- **Input Voltage Range:** 92-132 Volts AC RMS, 50/60 Hz., Single Phase, maximum running current 10 Amps RMS.
  Note: Although this unit contains a lock-out feature that detects low voltage conditions, the electronics should not be operated continuously below the input voltage range listed above.
- **Operating Temperature (Ambient Air and Working Air):** 0˚ C to 50˚ C
- **Storage Temperature:** -40˚ C to 85˚ C (Internal electronic controller is thermally protected).
- **Dielectric Testing:** 1500 Volts AC RMS 60 Hz applied for one second between input pins and ground, 3mA leakage maximum.
- **Isolated Speed Control:**
  Analog input voltage range: 2 to +10 VDC nominal (+13.5 VDC maximum).
  Digital Pulse Input: 400 Hz to 20 KHz, 0 to +10 volt pulse nominal, minimum duty cycle 10%, 0 to +13.5 volt maximum.
  Note: Setting of onboard potentiometer can effect control voltage range and maximum speed can be attained before reaching 10 VDC
- **Speed Control Input Current:** 5 mA to 20mA at 10 Volts input with multi-turn potentiometer set to minimum resistance (fully clockwise).
- **Speed Control Drift with Temperature:**
  Analog Mode: Typ. +-4% from nominal speed at +23 C.
  Digital or Direct Mode: Typ. +-4% from nominal speed at 23 C.
- **Approximate Weight:** 6 Lbs. / 2.2 Kg.
- **Regulatory Agency Certification:** Underwriters Laboratories, Inc. qualified per UL507 under File E-94403. Canadian Standards Association qualified per C22.2#113 under File LR 43448.
- **Miscellaneous:** Intake and exhaust tubes, all cooling ducts and vents must not be obstructed. Intake and exhaust must be free of grease, oil and foreign particles. Amp housing 350809-1 with male pins on 16 awg lead wire (suppied by customer) mates with post header assembly.
  Mating harness available upon request.

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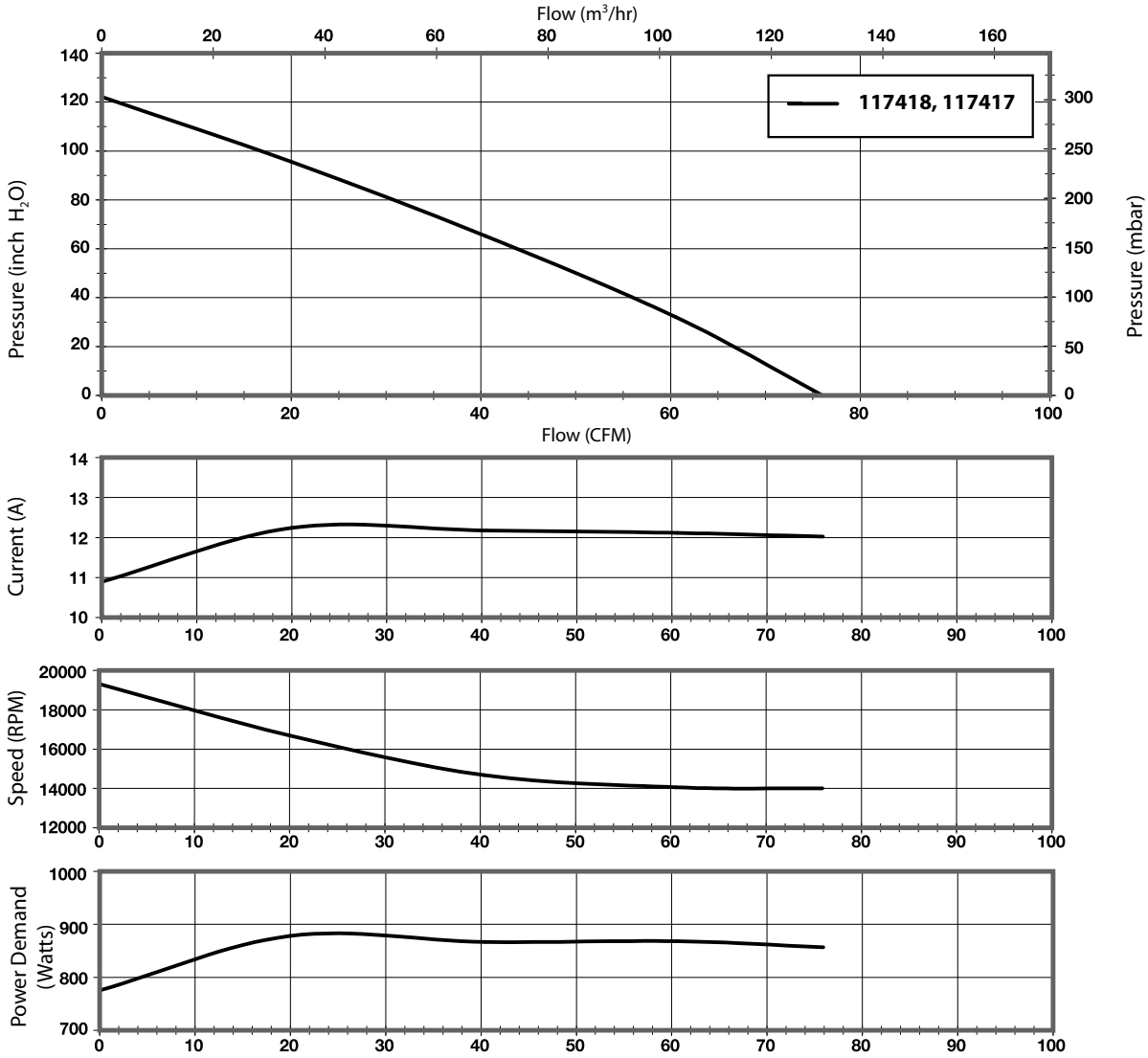
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AMETEK
PRECISION MOTION CONTROL

5.7" (145mm) BLDC Bypass Blower

800 Watt,120 Volt Standard Flow - IntelliGen(TM)

Typical Performance



Data presented represents blower performance at STANDARD AIR DENSITY, .075 lb/ft³ (29.92" Hg, Sea Level, 68° F)
Vacuum performance available upon request.

INSTALLATION:

- The blower must be secured using mounting tabs, prior to applying power. This is a high speed device with rapid acceleration.
- Connections:
  All of the Windjammer IntelliGen™ series blowers have a standard 5 pin connector.
  A mating connector with leads is supplied with single pack units only.
  Negative pressure applications will exhibit reduced performance.
  Exhaust air must be prohibited from being recycled to inlet air.
  If blower is to be cycled frequently, the DC speed command should be used.
  For use in industrial applications, use AMETEK Technical & Industrial Products cooling air filters.
- Note: Utilize AMETEK external EMC filter accessory to meet EN61000-4-6 requirement.
  Option Circuit Connections: Pleaase consult with AMETEK for connection details for all optional and custom circuitry.
- Utilizes AMETEK's IntelliGen™ control electronics.

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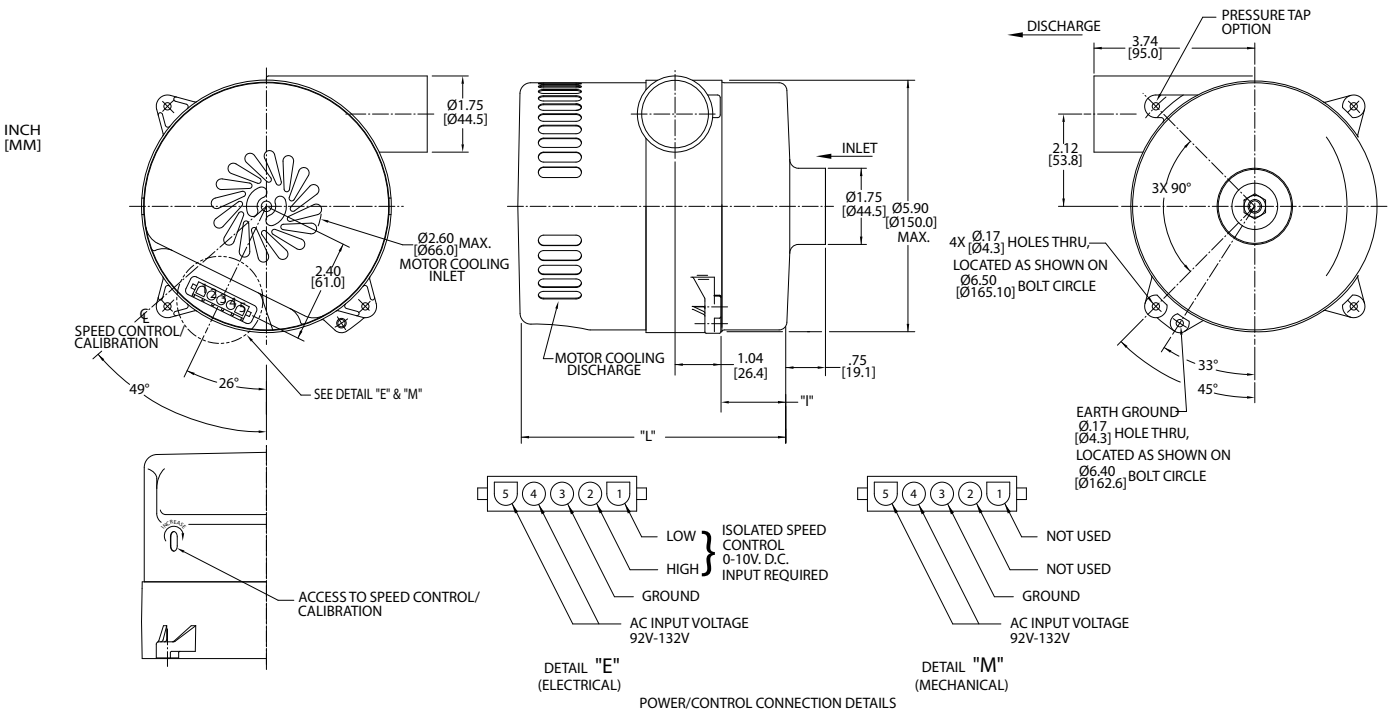
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High Voltage Brushless DC Blowers

5.7" (145mm) BLDC Bypass Blower

800 Watt, 120 Volt High Flow - IntelliGen (TM)



		Part/ Model Number				
Specification	Units	119102	119101	119104	119103	119105
Stages	-	1	1	2	2	1
Max Sealed Vacuum	in. H2O	31	31	67	67	24
	mbar	77.2	77.2	166.9	166.9	59.8
Max Sealed Pressure	in. H2O	39	39	78	78	30
	mbar	97.1	97.1	194.3	194.3	74.7
Max Flow Rate	CFM	140	140	131	131	210
	m3/hr	238	238	222.7	222.7	357
Inlet/Outlet Diameter	Inches	1.75	1.75	1.75	1.75	2.75/2.50
	mm	44.5	44.5	44.5	44.5	69.9/63.5
Length (I)	Inches	.47	.47	1.53	1.53	.71
	mm	11.9	11.9	38.9	38.9	18
Length (L)	Inches	5.30	5.30	6.19	6.19	5.46
	mm	134.6	134.6	157.2	157.2	138.7
Speed Control	-	Mechanical	Electrical	Mechanical	Electrical	Electrical
Windjammer Express		✓		✓		✓

Notes:

- **Input Voltage Range:** 92-132 Volts AC RMS, 50/60 Hz., Single Phase, maximum running current 10 Amps RMS.
  Note: Although this unit contains a lock-out feature that detects low voltage conditions, the electronics should not be operated continuously below the input voltage range listed above.
- **Operating Temperature (Ambient Air and Working Air):** 0˚ C to 50˚ C
- **Storage Temperature:** -40˚ C to 85˚ C (Internal electronic controller is thermally protected).
- **Dielectric Testing:** 1500 Volts AC RMS 60 Hz applied for one second between input pins and ground, 3mA leakage maximum.
- **Isolated Speed Control:**
  Analog input voltage range: 2 to +10 VDC nominal (+13.5 VDC maximum).
  Digital Pulse Input: 400 Hz to 20 KHz, 0 to +10 volt pulse nominal, minimum duty cycle 10%, 0 to +13.5 volt maximum.
  Note: Setting of onboard potentiometer can effect control voltage range and maximum speed can be attained before reaching 10 VDC
- **Speed Control Input Current:** 5 mA to 20mA at 10 Volts input with multi-turn potentiometer set to minimum resistance (fully clockwise).
- **Speed Control Drift with Temperature:**
  Analog Mode: Typ. +-4% from nominal speed at +23 C.
  Digital or Direct Mode: Typ. +-4% from nominal speed at 23 C.
- **Approximate Weight:** 6 Lbs. / 2.2 Kg.
- **Regulatory Agency Certification:** Underwriters Laboratories, Inc. qualified per UL507 under File E-94403. Canadian Standards Association qualified per C22.2#113 under File LR 43448.
- **Miscellaneous:** Intake and exhaust tubes, all cooling ducts and vents must not be obstructed. Intake and exhaust must be free of grease, oil and foreign particles. Amp housing 350809-1 with male pins on 16 awg lead wire (suppied by customer) mates with post header assembly.
  Mating harness available upon request.

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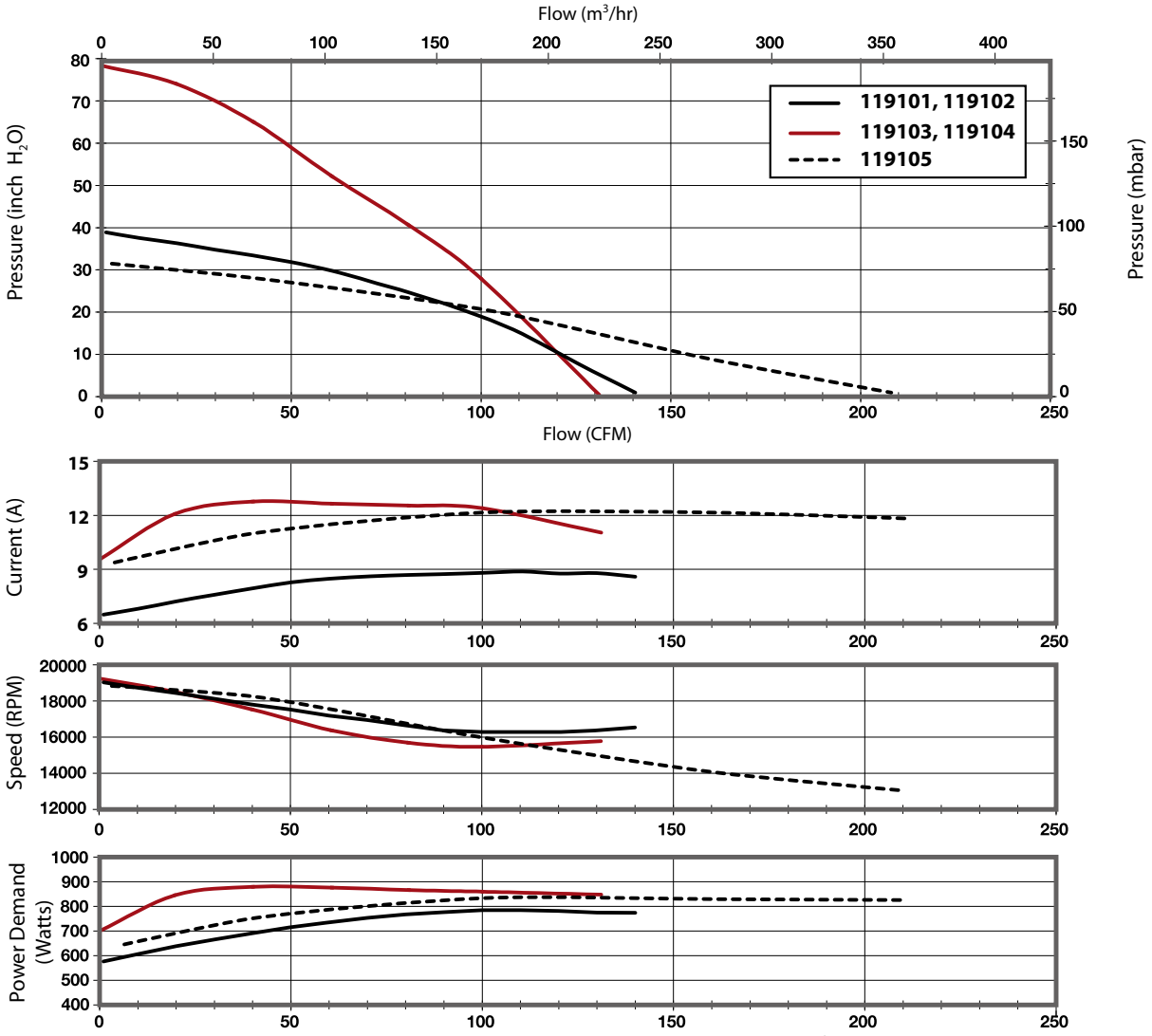
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5.7" (145mm) BLDC Bypass Blower

800 Watt, 120 Volt High Flow - IntelliGen (TM)

Typical Performance



Data presented represents blower performance at STANDARD AIR DENSITY, .075 lb/ft³ (29.92" Hg, Sea Level, 68° F)
Vacuum performance available upon request.

INSTALLATION:

- The blower must be secured using mounting tabs, prior to applying power. This is a high speed device with rapid acceleration.
- Connections:
  All of the Windjammer IntelliGen™ series blowers have a standard 5 pin connector.
  A mating connector with leads is supplied with single pack units only.
  Negative pressure applications will exhibit reduced performance.
  Exhaust air must be prohibited from being recycled to inlet air.
  If blower is to be cycled frequently, the DC speed command should be used.
  For use in industrial applications, use AMETEK Technical & I ndustrial Products cooling air filters.
- Note: Utilize AMETEK external EMC filter accessory to meet EN61000-4-6 requirement.
  Option Circuit Connections: Please consult with AMETEK for connection details for all options and custom circuitry.
- Utilizes AMETEK's IntelliGen™ control electronics.

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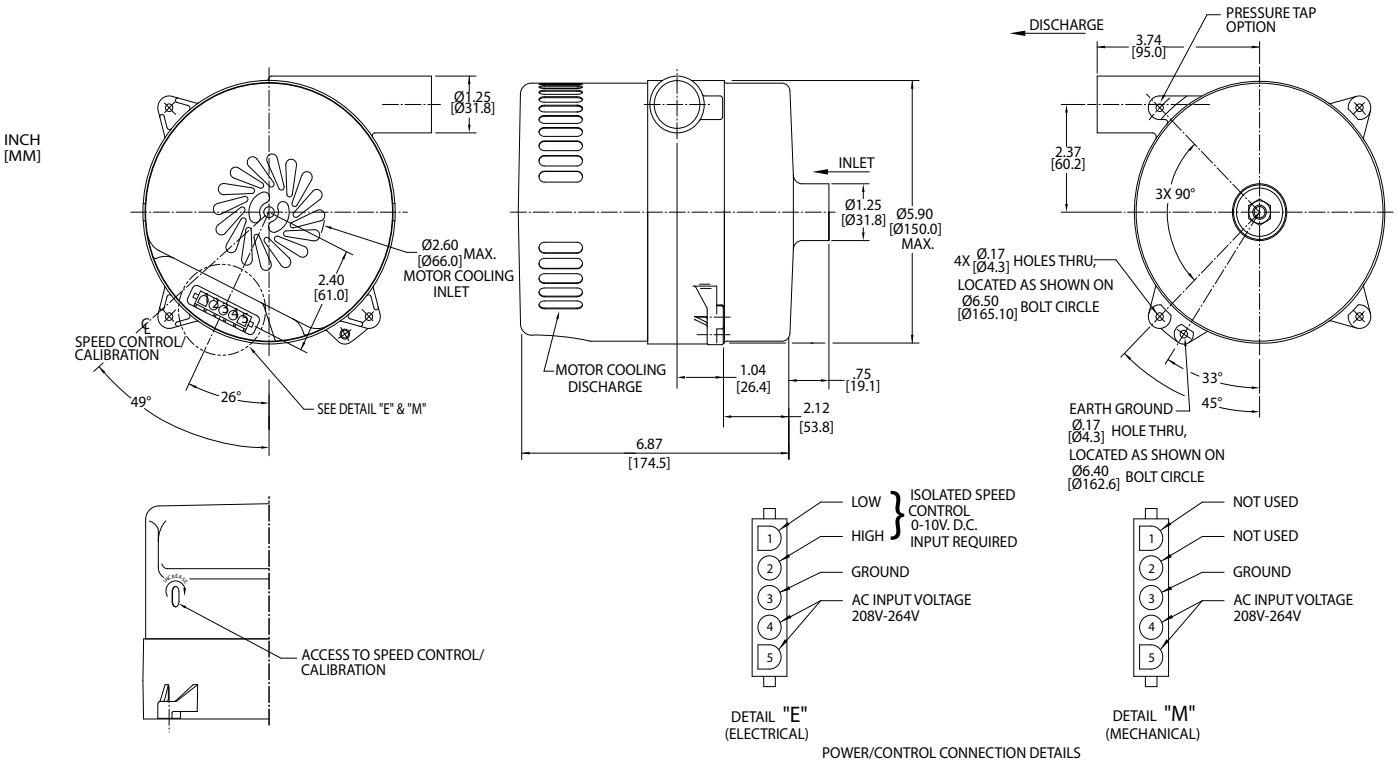
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High Voltage Brushless DC Blowers

5.7" (145mm) BLDC Bypass Blower

1200 Watt, 240 Volt Standard Flow - IntelliGen (TM)



		Part/ Model Number	
Specification	Units	117416	117415
Stages	-	3	3
Max Sealed Vacuum	in. H2O	154	154
	mbar	383.6	383.6
Max Sealed Pressure	in. H2O	169	169
	mbar	421	421
Max Flow Rate	CFM	87	87
	m3/hr	147.9	147.9
Speed Control	-	Mechanical	Electrical
Windjammer Express™		✓	✓

Notes:

- **Input Voltage Range:** 208-264 Volts AC RMS, 50/60 Hz., Single Phase, maximum running current 10 Amps RMS.
  Note: Although this unit contains a lock-out feature that detects low voltage conditions, the electronics should not be operated continuously below the input voltage range listed above.
- **Operating Temperature (Ambient Air and Working Air):** 0˚ C to 50˚ C
- **Storage Temperature:** -40˚ C to 85˚ C (Internal electronic controller is thermally protected).
- **Dielectric Testing:** 1800 Volts AC RMS 60 Hz applied for one second between input pins and ground, 3mA leakage maximum.
- **Isolated Speed Control:**
  Analog Input Voltage Range: 2 to +10 VDC nominal (+13.5 VDC maximum).
  Digital Pulse Input: 400 Hz to 20 KHz, 0 to +10 volt pulse nominal, minimum duty cycle 10%, 0 to +13.5 volt maximum.
  Note: Setting of onboard potentiometer can effect control voltage range and maximum speed can be attained before reaching 10 VDC
- **Speed Control Input Current:** 5 mA to 20mA at 10 Volts input with multi-turn potentiometer set to minimum resistance (fully clockwise).
- **Speed Control Drift with Temperature:**
  Analog Mode: Typ. +-4% from nominal speed at +23 C.
  Digital or Direct Mode: Typ. +-4% from nominal speed at 23 C.
- **Approximate Weight:** 6 Lbs. / 2.2 Kg.
- **Regulatory Agency Certification:** Underwriters Laboratories, Inc. qualified per UL507 under File E-94403. Canadian Standard Association qualified per C22.2#113 under File LR 43448.
- **Miscellaneous:** Intake and exhaust tubes, all cooling ducts and vents must not be obstructed. Intake and exhaust must be free of grease, oil and foreign particles. Amp housing 350809-1 with male pins on 16 awg lead wire (suppied by customer) mates with post header assembly.
  Mating harness available upon request.

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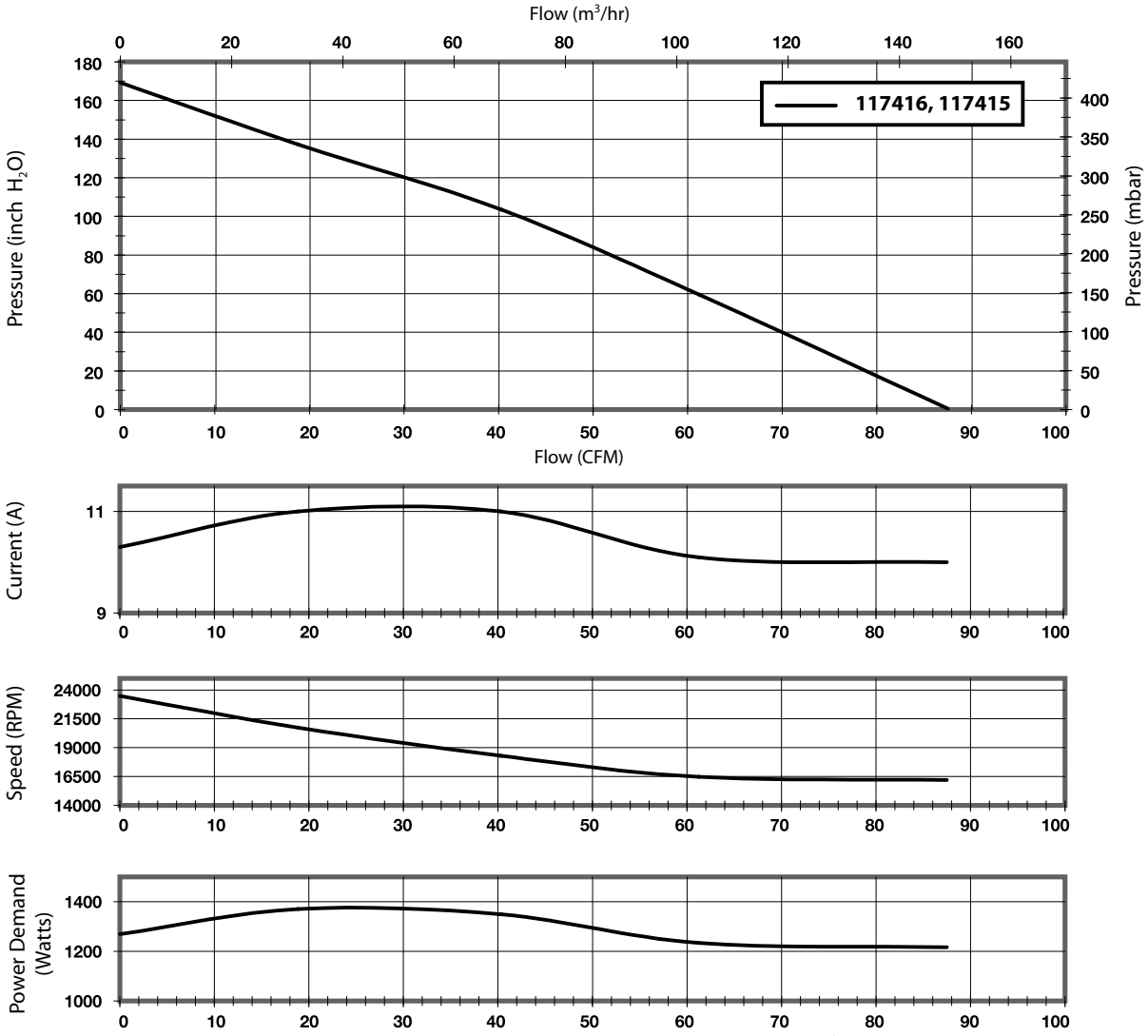
AMETEK DYNAMIC FLUID SOLUTIONS
100 E. Erie Street, Kent OH 44240
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www.ametektip.com

AMETEK
PRECISION MOTION CONTROL

5.7" (145mm) BLDC Bypass Blower

1200 Watt, 240 Volt Standard Flow - IntelliGen (TM)

Typical Performance



Data presented represents blower performance at STANDARD AIR DENSITY, .075 lb/ft^3 (29.92" Hg, Sea Level, 68° F)
Vacuum performance available upon request.

INSTALLATION:

- The blower must be secured using mounting tabs, prior to applying power. This is a high speed device with rapid acceleration.
- Connections:
  All of the Windjammer IntelliGen™ series blowers have a standard 5 pin connector.
  A mating connector with leads is supplied with single pack units only.
  Negative pressure applications will exhibit reduced performance.
  Exhaust air must be prohibited from being recycled to inlet air.
  If blower is to be cycled frequently, the DC speed command should be used.
  For use in industrial applications, use AMETEK Technical & Industrial Products cooling air filters.
  Note: Utilize AMETEK external EMC filter accessory to meet EN61000-4-6 requirement.
- Option Circuit Connections: Please consult with AMETEK for connection details for all options and custom circuitry.
- Utilizes AMETEK's IntelliGen™ control electronics.

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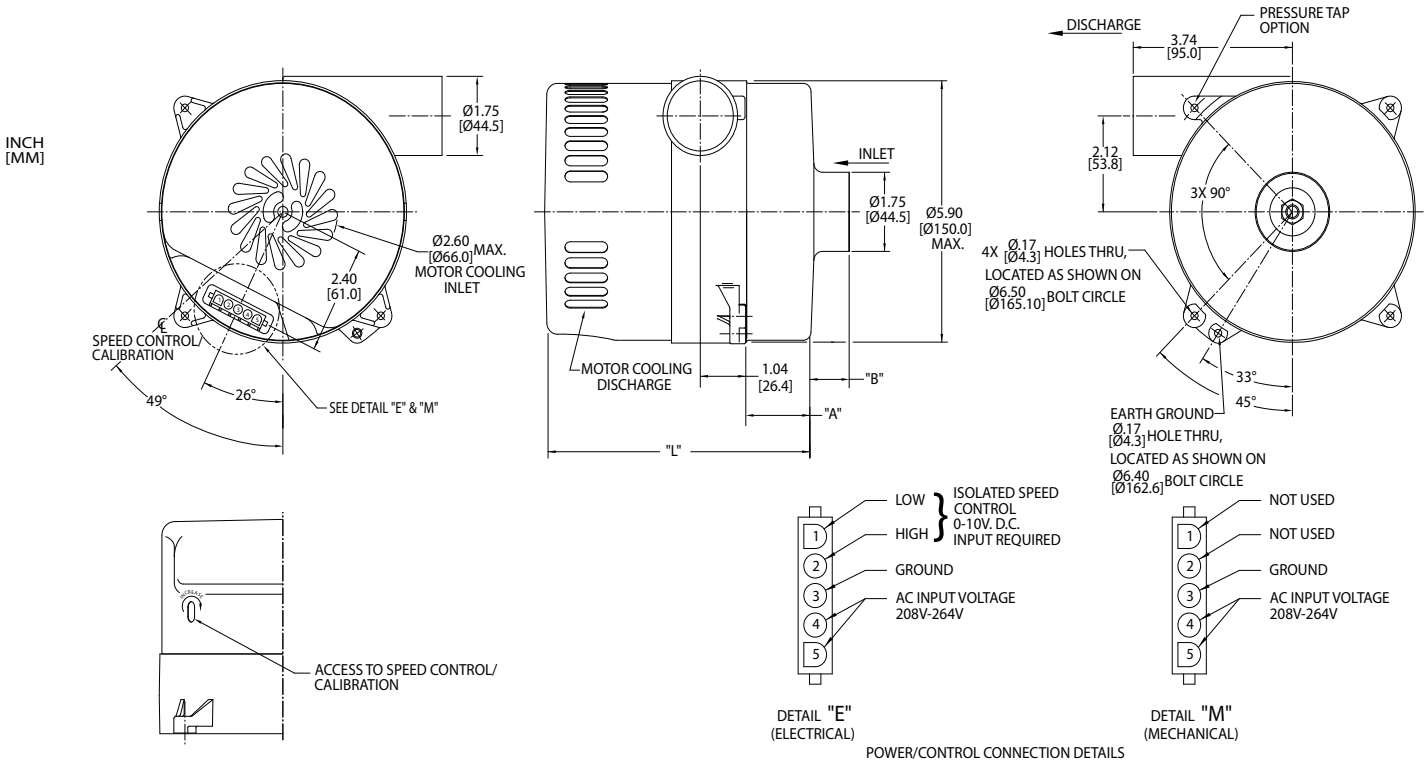
AMETEK®
PRECISION MOTION CONTROL

High Voltage Brushless DC Blowers

5.7" (145mm) BLDC Bypass Blower

Windjammer® BRUSHLESS BLOWERS

1200 Watt, 240 Volt High Flow - IntelliGen (TM)



		Part/ Model Number					
Specification	Units	119152	119151	119154	119153	119156	119155
Flow	-	High Flow	High Flow	High Flow	High Flow	High Flow	Ultra High Flow
Stages	-	1	1	2	2	3	1
Max Sealed Vacuum	in. H2O	46	46	80	80	119	42
	mbar	114.6	114.6	199.3	199.3	296.4	104.6
Max Sealed Pressure	in. H2O	56	56	111	111	130	45
	mbar	139.5	139.5	276.5	276.5	323.8	112.1
Max Flow Rate	CFM	180	180	140	140	113	268
	m3/hr	306	306	238	238	192.1	455.6
Inlet/Outlet Diameter	Inches	1.75	1.75	1.75	1.75	1.75	2.75/2.50
	mm	44.5	44.5	44.5	44.5	44.5	69.9/63.5
Length (I)	Inches	.47	.47	1.58	1.58	1.19	0.71
	mm	11.9	11.9	40.1	40.1	30.2	18
Length (L)	Inches	5.13	5.13	6.19	6.19	7.17	5.37
	mm	130.3	130.3	157.2	157.2	182.1	136.4
Speed Control	-	Mechanical	Electrical	Mechanical	Electrical	Electrical	Electrical

Notes:

- **Input Voltage Range:** 216-264 Volts AC RMS, 50/60 Hz., Single Phase, maximum running current 10 Amps RMS.
  Note: Although this unit contains a lock-out feature that detects low voltage conditions, the electronics should not be operated continuously below the input voltage range listed above.
- **Operating Temperature (Ambient Air and Working Air):** 0° C to 50° C
- **Storage Temperature:** -40° C to 85° C (Internal electronic controller is thermally protected).
- **Dielectric Testing:** 1800 Volts AC RMS 60 Hz applied for one second between input pins and ground, 3mA leakage maximum.
- **Isolated Speed Control:**
  Analog Input Voltage Range: 2 to +10 VDC nominal (+13.5 VDC maximum).
  Digital Pulse Input: 400 Hz to 20 KHz, 0 to +10 volt pulse nominal, minimum duty cycle 10%, 0 to +13.5 volt maximum.
  Note: Setting of onboard potentiometer can effect control voltage range and maximum speed can be attained before reaching 10 VDC
- **Speed Control Input Current:** 5 mA to 20mA at 10 Volts input with multi-turn potentiometer set to minimum resistance (fully clockwise).
- **Speed Control Drift with Temperature:**
  Analog Mode: Typ. +-4% from nominal speed at +23 C.
  Digital or Direct Mode: Typ. +-4% from nominal speed at 23 C.
- **Approximate Weight:** 6 Lbs. / 2.2 Kg.
- **Regulatory Agency Certification:** Underwriters Laboratories, Inc. qualified per UL507 under File E-94403. Canadian Standard Association qualified per C22.2#113 under File LR 43448.
- **Miscellaneous:** Intake and exhaust tubes, all cooling ducts and vents must not be obstructed. Intake and exhaust must be free of grease, oil and foreign particles. Amp housing 350809-1 with male pins on 16 awg lead wire (suppied by customer) mates with post header assembly.
  Mating harness available upon request.

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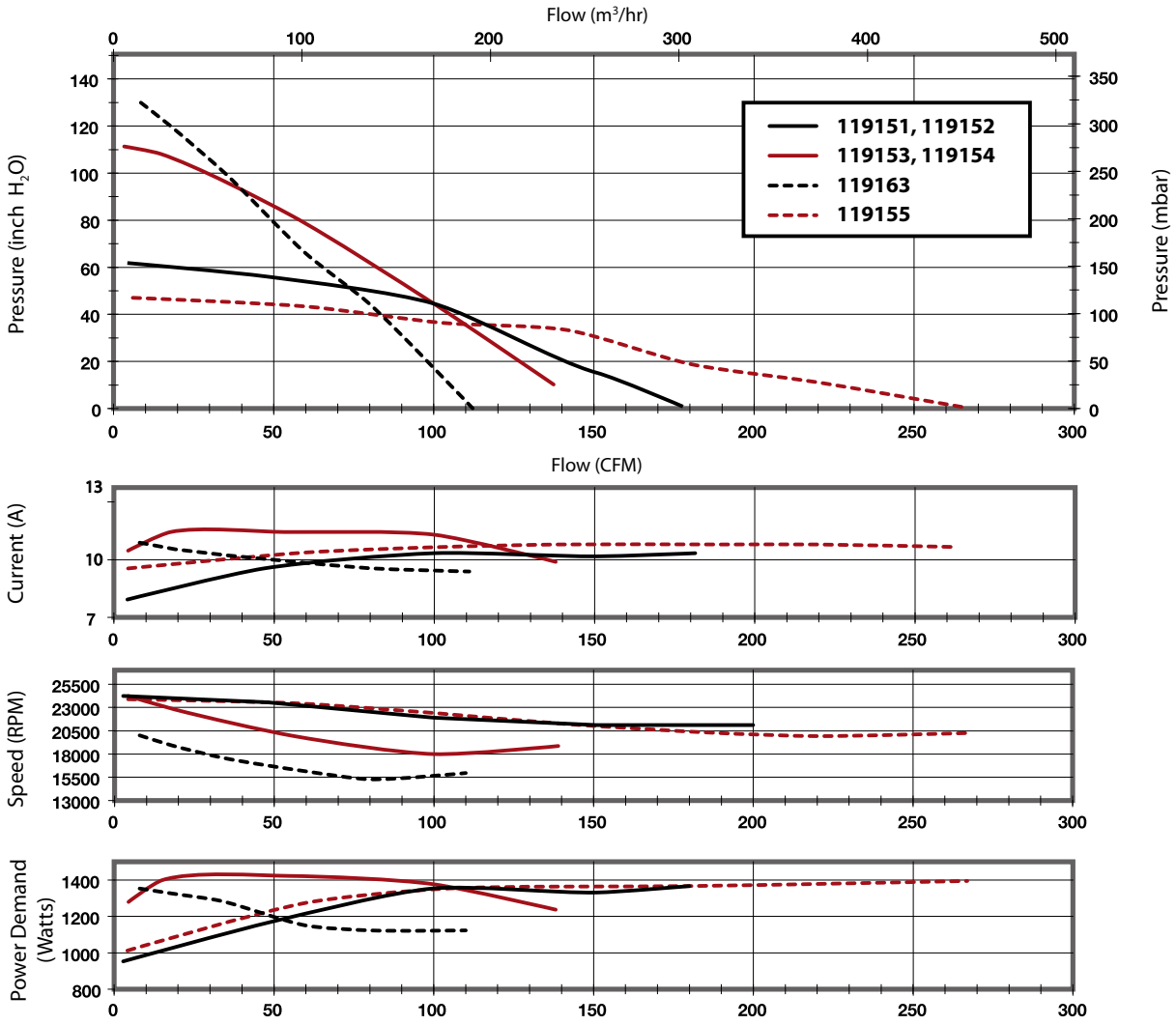
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