AMETEK

Product Bulletin

LAMB ELECTRIC

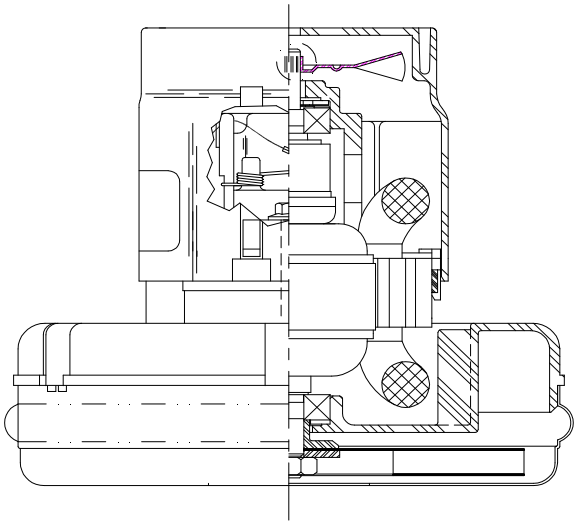
Model: 116866-45

DESCRIPTION

- One stage
- 120 volts
- 5.7"/145 mm diameter
- Ball/Ball bearings
- SIngle speed
- Peripheral bypass discharge
- Thermoset fan end bracket
- Thermoset commutator bracket

DESIGN APPLICATION

- Equipment operating in environments requiring separation of working air from motor ventilating air
- Designed to handle clean, dry, filtered air only



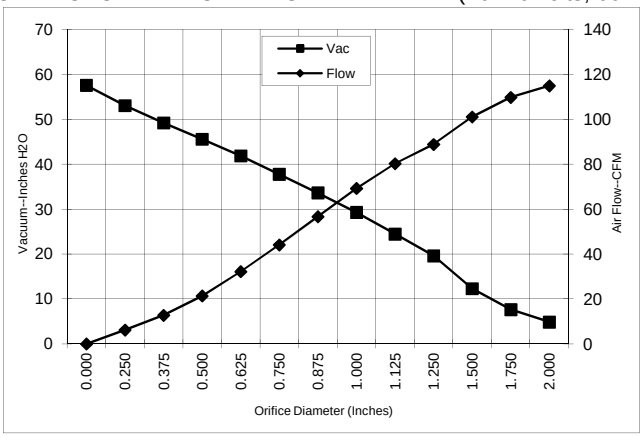
SPECIAL FEATURES

- Suitable for 120 volt AC operation, 50/60 Hz
- UL recognized, category PRGY2 (E47185)
- CSA certified, class 1611 01 (LR31393)
- Provision for grounding
- Skeleton-frame design
- The Lamb Electric vacuum motor line offers a wide range of performance levels to meet design needs

TYPICAL MOTOR PERFORMANCE.*

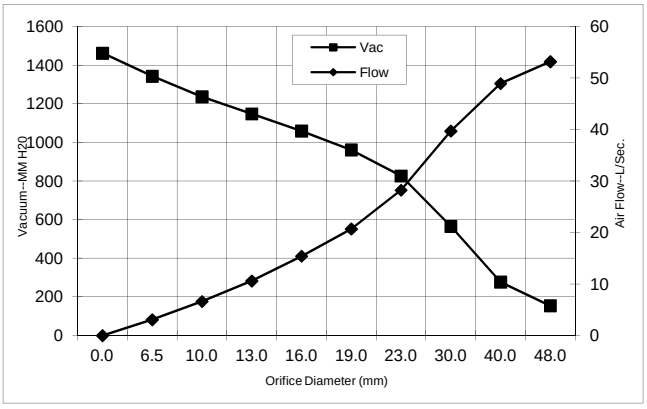
(At 120 volts, 60Hz, test data is corrected to standard conditions of 29.92 Hg, 68° F.)

ASTM DATA



Orifice (Inches)	Amps	Watts (In)	RPM	Vac (In.H2O)	Flow (CFM)	Air Watts
2.000	7.0	797	20,051	4.9	114.9	66
1.750	7.1	804	20,051	7.6	109.8	98
1.500	7.1	806	19,756	12.3	101.0	146
1.250	7.1	810	19,756	19.6	88.8	204
1.125	7.1	805	19,756	24.5	80.3	230
1.000	6.9	790	20,051	29.3	69.2	238
0.875	6.8	772	20,346	33.6	56.7	224
0.750	6.5	744	20,935	37.8	44.1	195
0.625	6.2	715	21,820	41.9	32.2	158
0.500	5.9	680	22,705	45.6	21.4	114
0.375	5.6	649	23,589	49.2	12.8	74
0.250	5.3	615	24,474	53.0	6.2	39
0.000	5.1	595	25,064	57.5	0.0	0

METRIC DATA



Orifice (mm)	Amps	Watts (In)	RPM	Vac (mm H2O)	Flow (L/Sec)	Air Watts
48.0	7.0	800	20051	155	53.2	80
40.0	7.1	806	19844	277	48.9	132
30.0	7.1	807	19756	566	39.7	219
23.0	6.8	776	20272	826	28.2	227
19.0	6.5	743	20953	961	20.7	195
16.0	6.3	716	21785	1059	15.4	160
13.0	6.0	684	22616	1148	10.6	119
10.0	5.7	653	23457	1236	6.6	80
6.5	5.3	616	24430	1342	3.1	40
0.0	5.1	595	25064	1462	0.0	0

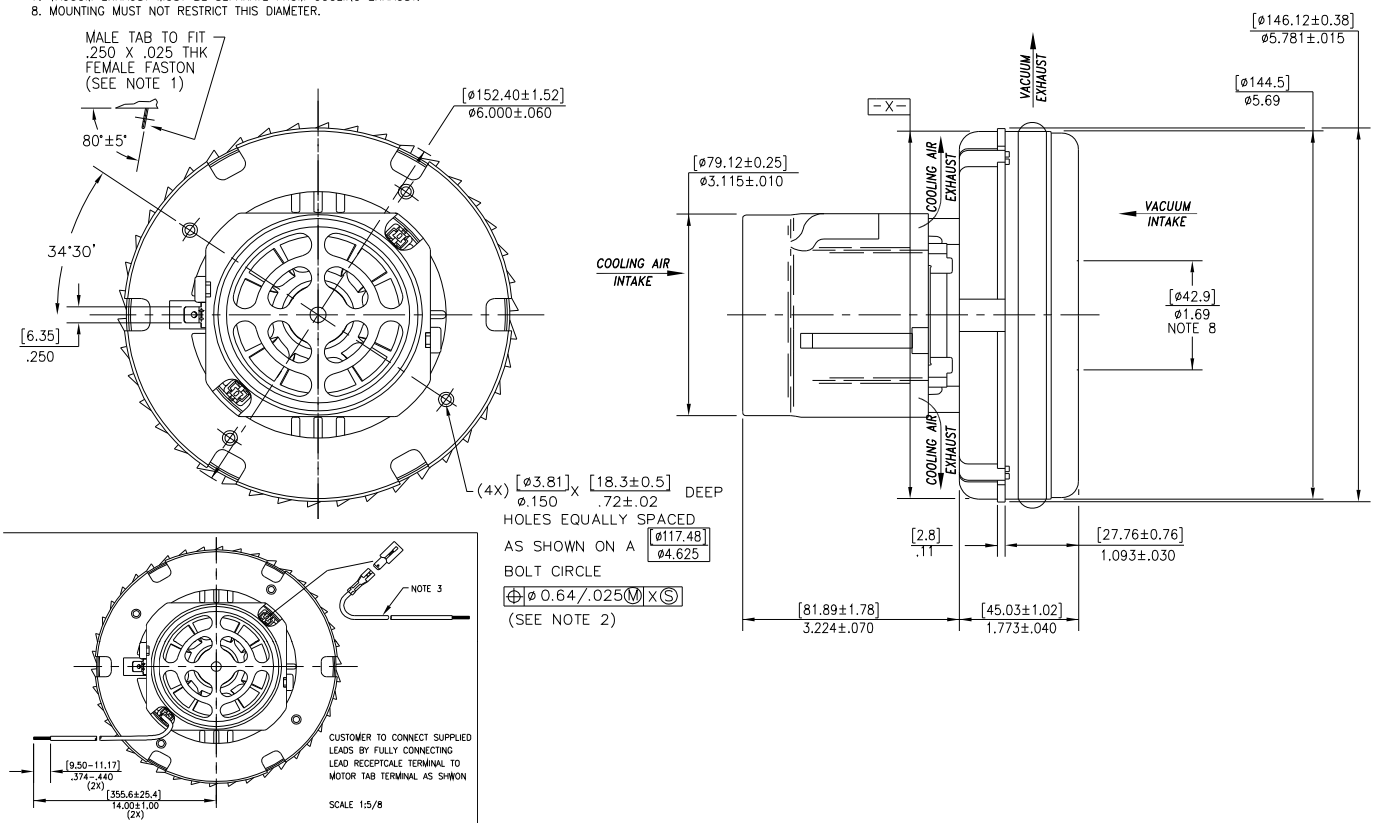
Note: Metric performance data is calculated from the ASTM data above.

* Data represents performance of a typical motor sampled from a large production quantity. Individual motor data may vary due to normal manufacturing variations.

Test Specs:	120 volts	**Minimum Sealed Vacuum: 49"**		**ORIFICE:**	7/8"	**Minimum Vacuum: 29"**	**Maximum Watts:** 850

DIMENSIONS

NOTES:
1. GROUNDING OR EARTHING PROVISIONS: USE ONLY UL RECOGNIZED AMP INC., 0.250 SERIES FOR .025 THICK TAB BRASS CONNECTOR WITH DETENT MOUNTED ON A 18 GA. UL RECOGNIZED AWM LEAD WIRE WITH 300V 90°C MINIMUM INSULATION COLORED GREEN WITH YELLOW STRIPE.
2. RECOMMENDED SCREW SIZE 10-16 TYPE BT OR TYPE 25 THREAD CUTTING SCREW. MAXIMUM PENETRATION [17.40]/.685.
3. SUPPLIED LEADS: 18GA STRANDED.
4. MOTOR IDENTIFICATION: MANUFACTURER'S NAME, MODEL NUMBER, VOLTAGE, FREQUENCY, INSPECTORS CODE, DATE OF MANUFACTURE, AGENCY RECOGNITION CODE, PLANT LOCATION CODE AND COUNTRY OF ORIGIN.
5. ALLOW [0.0016 SQ M]/2.5 SQ IN FOR COOLING AIR INTAKE.
6. COOLING AIR INTAKE MUST BE SEPARATED FROM COOLING AIR EXHAUST.
7. VACUUM EXHAUST MUST BE SEPARATE FROM COOLING EXHAUST.
8. MOUNTING MUST NOT RESTRICT THIS DIAMETER.



IMPORTANT NOTE: *Pictorial and dimensional data are subject to change without notice. Contact factory for current revision levels.*

WARNING - When using AMETEK Lamb Electric bypass motors in machines that come in contact with foam, liquid (including water), or other foreign substances, the machine must be designed and constructed to prevent those substances from reaching the fan system, motor housing, and electrical components. Lamb Electric vacuum motors other than hazardous duty models should not be applied in machines that come in contact with dry chemicals or other volatile materials. Failure to observe these precautions could cause flashing (depending on volatility) or electrical shock which could result in property damage and severe bodily injury, including death in extreme cases. All applications incorporating Lamb Electric motors should be submitted to appropriate organizations or agencies for testing specifically related to the safety of your equipment.

AMETEK/Floorcare & Specialty Motors
www.ametekfsm.com

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