



**LAMB ELECTRIC**

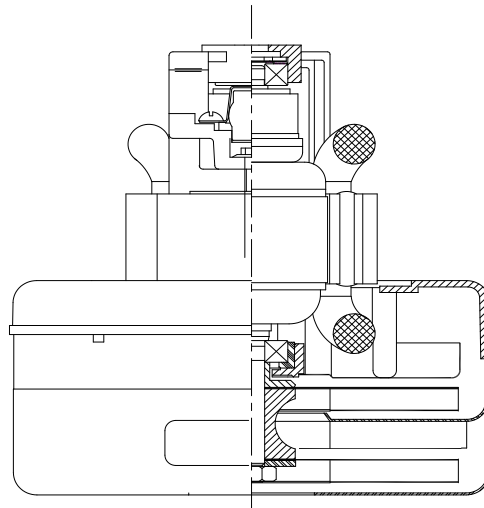
**Model: 116311-10**

**DESCRIPTION**

- Two stage
- 120 volts 400 Hz - Rectified
- 5.7"/145 mm diameter
- Carbon Brushes for 400 Hz-120V
- Double ball bearings
- Single speed
- Thru-flow discharge
- Aluminum fan end bracket
- Aluminum commutator bracket

**DESIGN APPLICATION**

- Equipment operating in environments not requiring separation of working air from motor ventilating air
- Designed to handle clean, dry, filtered air only



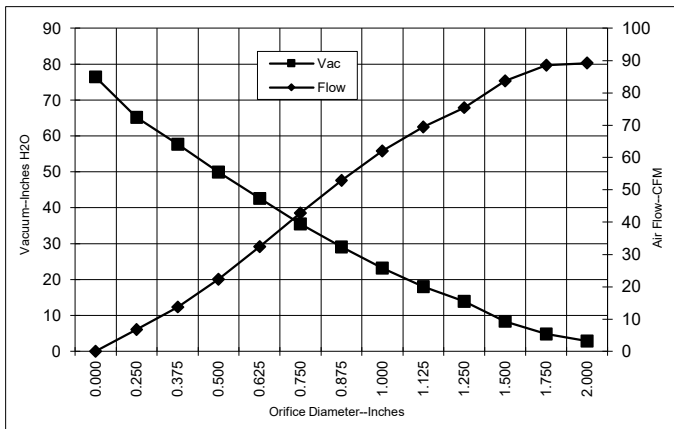
**SPECIAL FEATURES**

- Suitable for 120 volt 400 Hz Rectified operation,
- Full Wave Rectifier Bridge Required.
- 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.\***

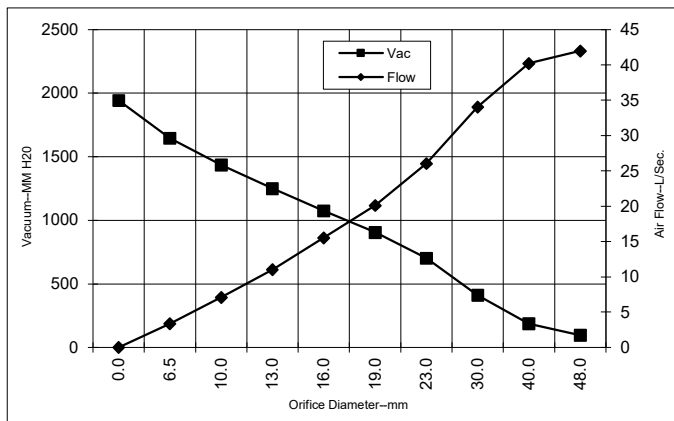
(At 120 volts, 400Hz- Rectified, test data is corrected to standard conditions of 29.92 Hg,

**ASTM DATA**



Orifice (Inches)	Amps	Watts (In)	RPM	Vac (In.H <sub>2</sub> O)	Flow (CFM)	Air Watts
2.000	6.0	656.5431	15970.72	2.9	89.2	30
1.750	6.0	658.2627	15926.94	4.9	88.6	51
1.500	6.0	661.8073	15852.88	8.3	83.7	82
1.250	6.1	670.3334	15781.52	13.9	75.4	123
1.125	6.1	667.7295	15794.37	18.0	69.5	147
1.000	6.0	659.8666	15894.85	23.2	62.1	169
0.875	5.9	645.1947	16110.23	29.1	52.9	181
0.750	5.6	622.3771	16448.8	35.5	42.8	178
0.625	5.3	588.0441	17000.96	42.6	32.5	162
0.500	5.0	548.6319	17738.47	49.9	22.3	131
0.375	4.6	505.066	18739.29	57.7	13.7	93
0.250	4.2	466.4943	19793.2	65.2	6.8	52
0.000	3.9	435.9244	20839.82	76.5	0.0	0

**METRIC DATA**



Orifice (mm)	Amps	Watts (In)	RPM	Vac (mm H <sub>2</sub> O)	Flow (L/Sec)	Air Watts
48.0	6.0	657	15951	96	42.0	39
40.0	6.0	661	15875	186	40.2	73
30.0	6.1	669	15789	411	34.1	136
23.0	5.9	649	16056	703	26.0	178
19.0	5.6	622	16460	906	20.1	178
16.0	5.3	589	16979	1075	15.5	163
13.0	5.0	553	17665	1249	11.0	134
10.0	4.6	512	18589	1435	7.1	98
6.5	4.2	468	19741	1646	3.4	54
0.0	3.9	436	20840	1942	0.0	0

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

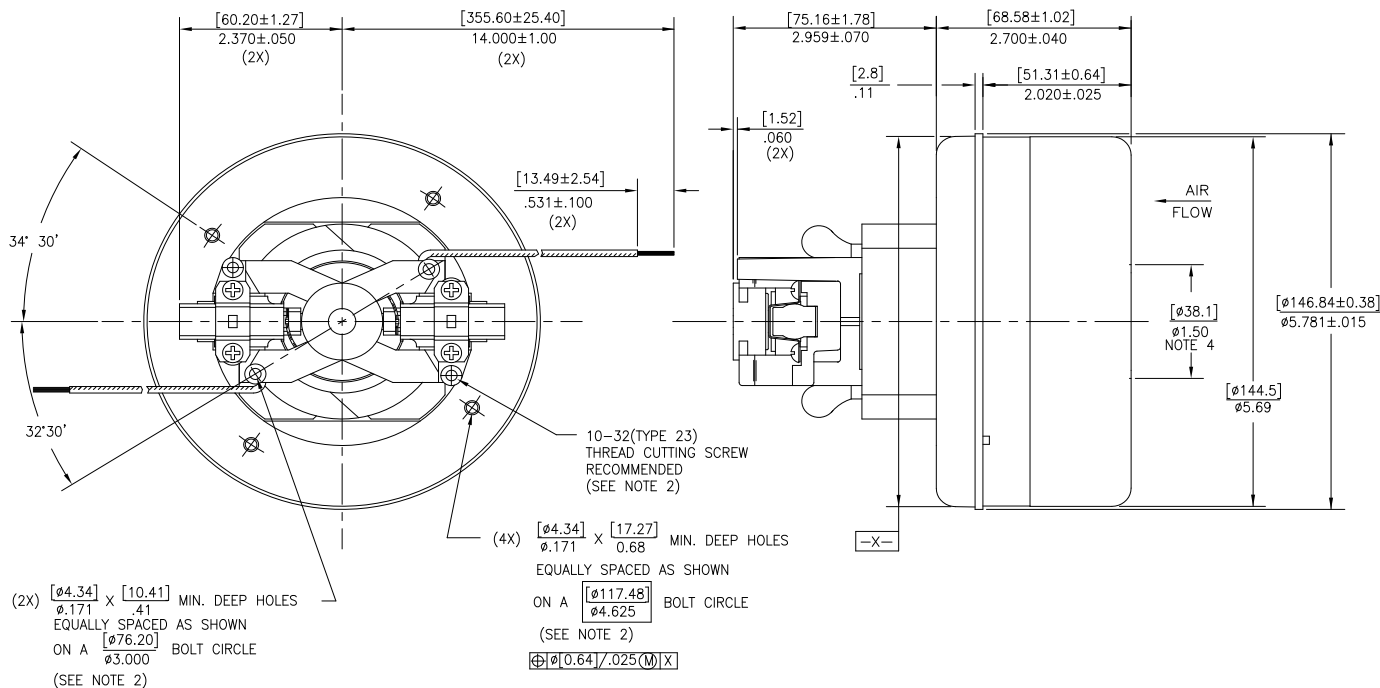
\* Data represents performance of a typical motor sampled from a large production quantity. Individual motor data may vary due to normal manufacturing variations.  
60 Hz

<b>Test Specs:</b>	<b>120 volts</b>	<b>Minimum Sealed Vacuum: 85</b>	<b>ORIFICE:</b>	<b>7/8 "</b>	<b>Minimum Vacuum: 30</b>	<b>Maximum Watts:</b>	<b>950</b>
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**DIMENSIONS**

NOTES:

1. LEADS: 18GA STRANDED, LEADS CAN BE ANY COLOR EXCEPT GREEN OR GREEN WITH YELLOW STRIPE.
2. GROUNDING OR EARTHING PROVISIONS: USE HOLES AS INDICATED FOR GROUNDING OR EARTHING. REFER TO APPROPRIATE LISTING OR REGULATORY AGENCY FOR PROPER METHOD OF GROUNDING OR EARTHING.
3. MOTOR IDENTIFICATION: MANUFACTURER'S NAME, MODEL NUMBER, VOLTAGE, FREQUENCY, INSPECTOR'S CODE, DATE OF MANUFACTURE, AGENCY RECOGNITION CODE, PLANT LOCATION CODE AND COUNTRY OF ORIGIN.
4. MOUNTING MUST NOT RESTRICT THIS DIAMETER.
5. TO INSURE NORMAL OPERATING LIFE TIME, THIS MOTOR MUST BE OPERATED AT 400Hz IN CONJUNCTION WITH A FULL WAVE BRIDGE (RECTIFIER).



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

**WARNING** - AMETEK Lamb Electric thru-flow vacuum motors must never be used in applications in which wet or moist conditions are involved, where dry chemicals or other volatile materials are present, or where airflow may be restricted or blocked. Such motors are designed to permit the vacuumed air to pass over the electrical winding to cool it. Thus any foam, liquid (including water), dry chemical, or other foreign substance coming in contact with electrical conductors could cause combustion (depending on volatility) or electrical shock. Failure to observe these precautions could result in property damage and severe personal injury, including death in extreme cases. All applications incorporating Lamb Electric motors should be submitted to Underwriters Laboratories Inc. or other appropriate organizations or agencies for testing specifically related to the safety of your equipment.

**AMETEK/Floorcare & Specialty Motors**  
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