



Model: 116599-13

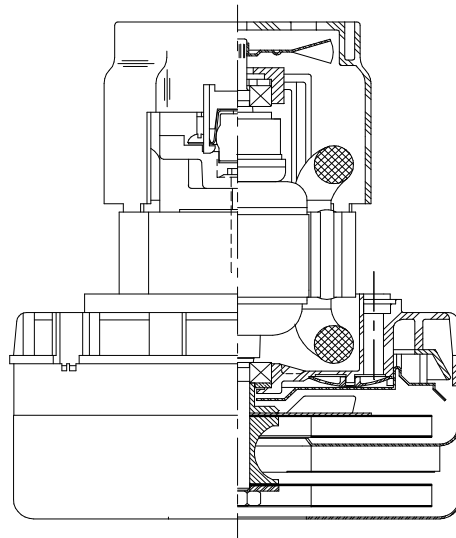
SPECIAL FEATURES

- Suitable for 24 volt DC operation
- UL Recognized, category PRGY2 (E47185)
- Provision for grounding
- Skeleton-frame design
- Epoxy painted fan case
- Patented air seal bearing construction. U.S. Patent #4,088,424
- ACUSTEK® low noise peripheral
- U.S. Patent #1,417,200
- The Lamb Electric vacuum motor line offers a wide range of performance levels to meet design needs.

- * 116599-07 includes air seal, epoxy paint & terminal
- 116599-13 Includes air seal and epoxy paint
- ** 116599-18 Includes enhanced air seal bearing protection
- *** 116599-29 Includes air seal, epoxy paint, and 1.5" inlet tube

DESCRIPTION

- Two stage
- 24 volts
- 5.7"/145 mm diameter
- Double ball bearings
- Single speed
- ACUSTEK® low-noise peripheral bypass discharge
- Thermoset fan end bracket
- Aluminum commutator bracket

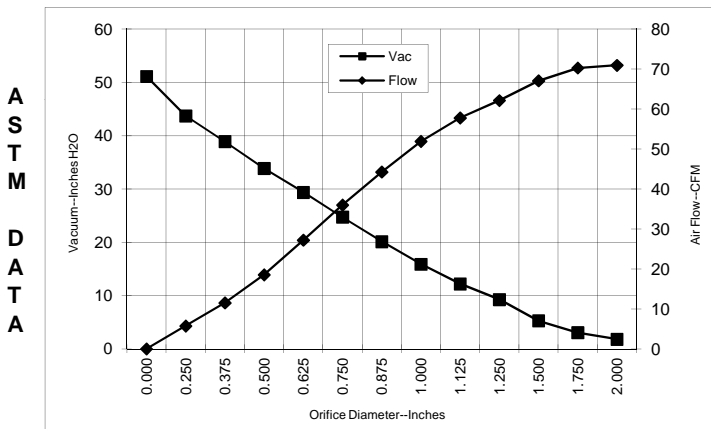


DESIGN APPLICATION

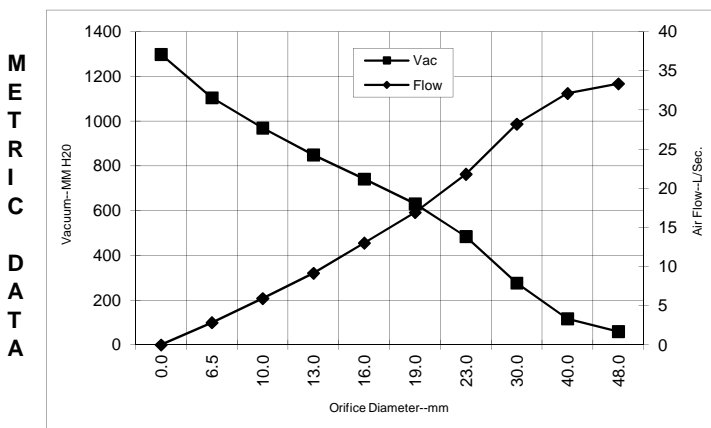
- Equipment operating in environments requiring separation of working air from motor ventilating air
- Designed to handle clean, dry, filtered air only

TYPICAL MOTOR PERFORMANCE.*

(At 24 volts DC, test data is corrected to standard conditions of 29.92 Hg, 68° F.)



Orifice (Inches)	Amps	Watts (In)	RPM	Vac (In.H ₂ O)	Flow (CFM)	Air Watts
2.000	17.4	419	12901	1.8	71.0	15
1.750	17.4	419	12885	3.0	70.3	25
1.500	17.5	422	12826	5.3	67.1	42
1.250	17.6	423	12761	9.3	62.2	68
1.125	17.6	424	12750	12.2	57.8	83
1.000	17.5	422	12795	15.9	51.9	97
0.875	17.3	416	12928	20.1	44.3	105
0.750	16.9	406	13182	24.7	36.0	104
0.625	16.2	391	13620	29.4	27.2	94
0.500	15.4	372	14184	33.9	18.5	74
0.375	14.5	351	14956	38.9	11.5	53
0.250	13.7	332	15614	43.7	5.7	29
0.000	13.1	316	16431	51.1	0.0	0



Orifice (mm)	Amps	Watts (In)	RPM	Vac (mm H ₂ O)	Flow (L/Sec)	Air Watts
48.0	17.4	419	12894	60	33.4	19
40.0	17.5	421	12844	117	32.1	37
30.0	17.6	424	12755	276	28.2	76
23.0	17.3	417	12895	484	21.8	103
19.0	16.8	406	13191	631	16.9	104
16.0	16.2	392	13603	741	13.0	94
13.0	15.5	374	14128	849	9.2	76
10.0	14.7	354	14841	969	5.9	56
6.5	13.7	333	15581	1104	2.8	31
0.0	13.1	316	16431	1299	0.0	0

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

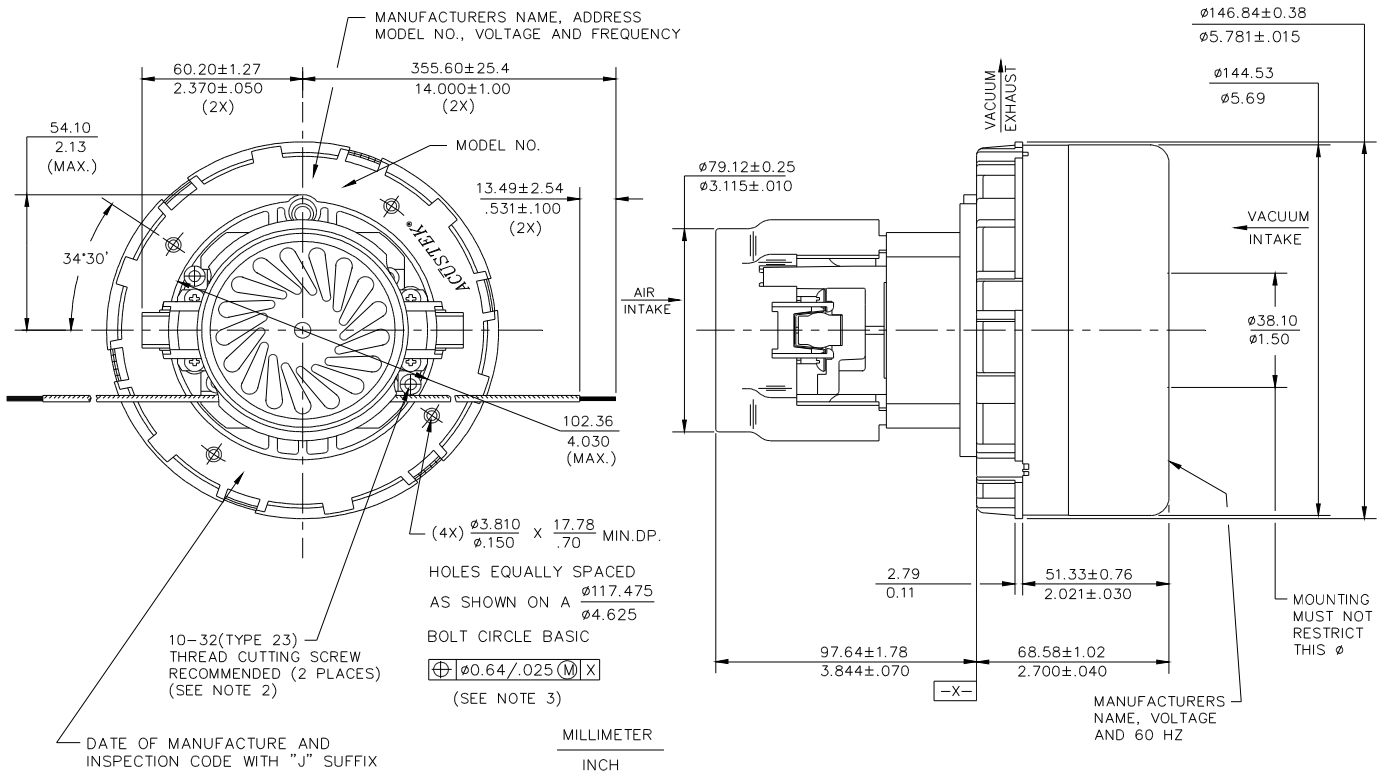
* Data represents performance of a typical motor sampled from a large production quantity. Individual motor data may vary due to normal manufacturing variations.

Test Specs:	24 volts	Minimum Sealed Vacuum: 41.4"	ORIFICE: 7/8 "	Minimum Vacuum: 17"	Maximum Watts: 460
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DIMENSIONS

NOTES:

1. LEADS: 14GA 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. RECOMMENDED SCREW SIZE 10-16 TYPE BT OR 25 THREAD CUTTING SCREW. MAXIMUM PENETRATION 17.40/.685.



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.

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