



AMETEK

LAMB ELECTRIC

Product Bulletin

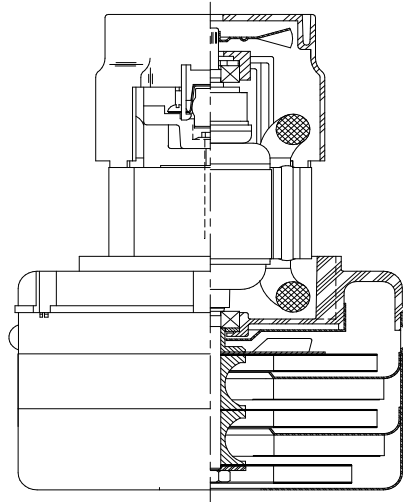
Model: 116514-13

DESCRIPTION

- Three stage
- 24 volts
- 5.7"/145 mm diameter
- Double ball bearings
- Single speed
- 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



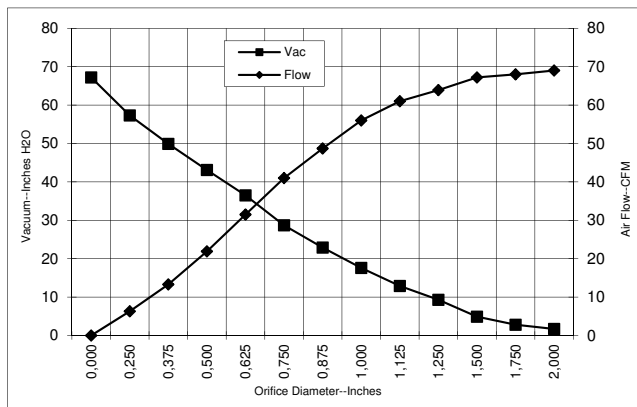
SPECIAL FEATURES

- 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
- The Lamb Electric vacuum motor line offers a wide range of performance levels to meet design needs.

TYPICAL MOTOR PERFORMANCE.*

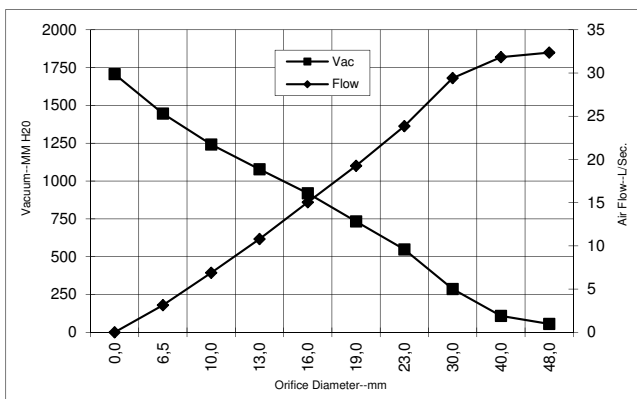
(At 24 volts DC, test data is corrected to standard conditions of 29.92 Hg, 68° F.)

ASTM
DATA



Orifice (Inches)	Amps	Watts (In)	RPM	Vac (In.H2O)	Flow (CFM)	Air Watts
2,000	20,9	535	12667	1,7	69,0	13
1,750	21,0	537	12583	2,8	68,0	22
1,500	21,1	540	12533	4,9	67,2	39
1,250	21,4	545	12433	9,3	63,9	69
1,125	21,5	549	12383	12,9	61,0	91
1,000	21,5	550	12300	17,6	56,0	116
0,875	21,5	548	12367	22,9	48,7	132
0,750	21,0	537	12517	28,7	41,0	142
0,625	20,4	522	12933	36,5	31,5	135
0,500	19,4	499	13550	43,1	21,9	111
0,375	18,3	471	14300	49,9	13,3	78
0,250	17,1	443	15200	57,3	6,3	42
0,000	16,1	418	16167	67,2	0,0	0

METRIC
DATA



Orifice (mm)	Amps	Watts (In)	RPM	Vac (mm H2O)	Flow (L/Sec)	Air Watts
48,0	20,9	536	12630	55	32,4	17
40,0	21,1	539	12548	108	31,8	34
30,0	21,4	547	12406	287	29,4	81
23,0	21,5	549	12350	548	23,8	128
19,0	21,0	537	12525	733	19,3	142
16,0	20,4	523	12916	919	15,0	135
13,0	19,5	501	13488	1078	10,8	113
10,0	18,5	475	14188	1242	6,9	83
6,5	17,2	444	15155	1446	3,1	44
0,0	16,1	418	16167	1707	0,0	0

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

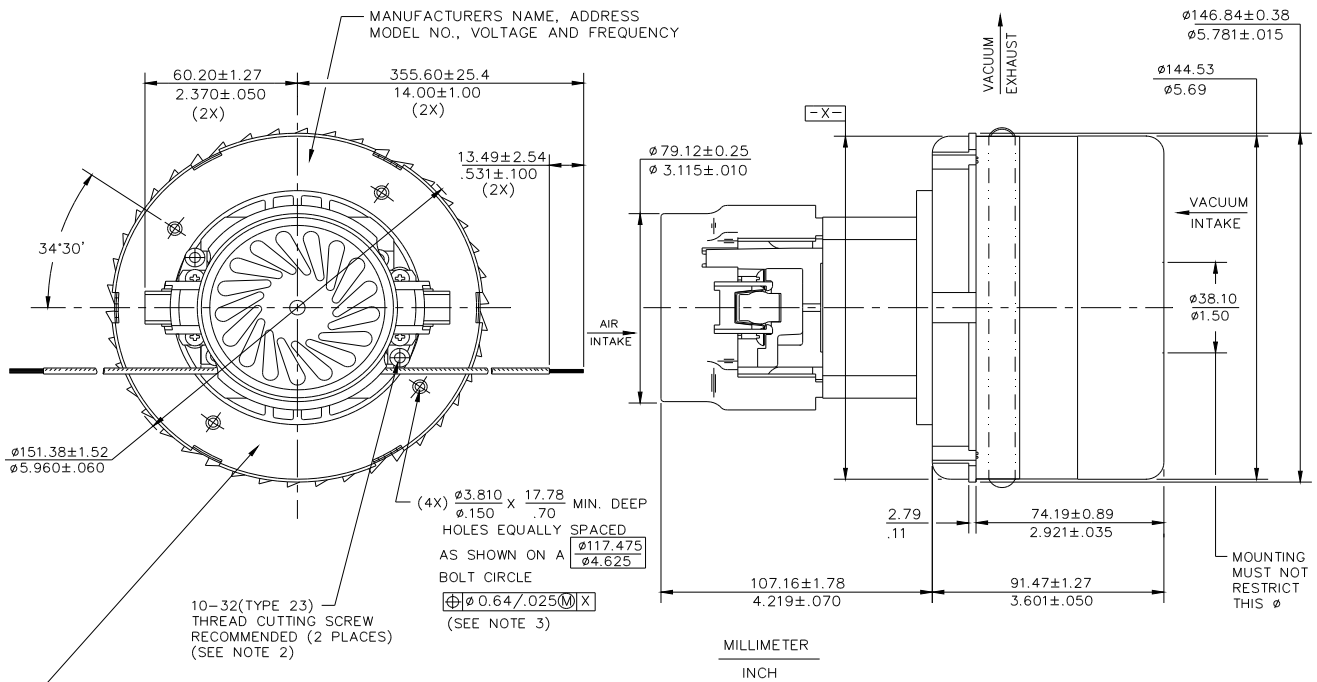
* Data represents performance of a typical motor sampled from a large production quantity. Individual motor data may vary due to normal manufacturing variations.

Test Specs: 24 volts Minimum Sealed Vacuum: 62.0" ORIFICE: 7/8 " Minimum Vacuum: 22.0" Maximum Watts: 640

DIMENSIONS

NOTES:

1. LEADS: 14 GA 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 TYPE 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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