



AMETEK LAMB ELECTRIC

Product Bulletin

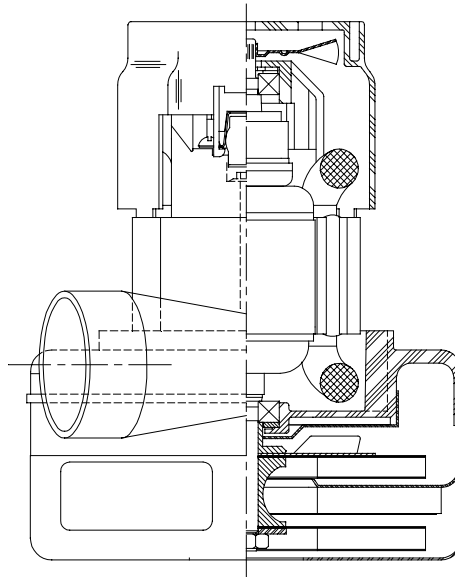
Model: 116077-13

DESCRIPTION

- Two stage
- 220 volts
- 5.7"/145 mm diameter
- Double ball bearings
- Tangential bypass discharge
- Double insulation
- Thermoset fan 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



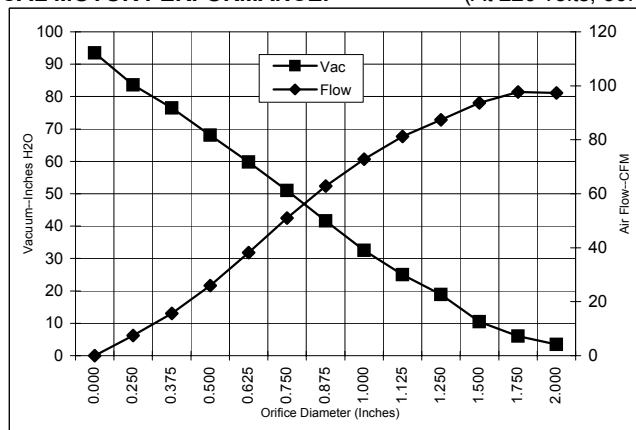
SPECIAL FEATURES

- Suitable for 220 volt operation, 50/60 Hz
- UL recognized, category PRGY2 (E47185)
- Epoxy painted fan case
- Skeleton-frame design
- 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.*

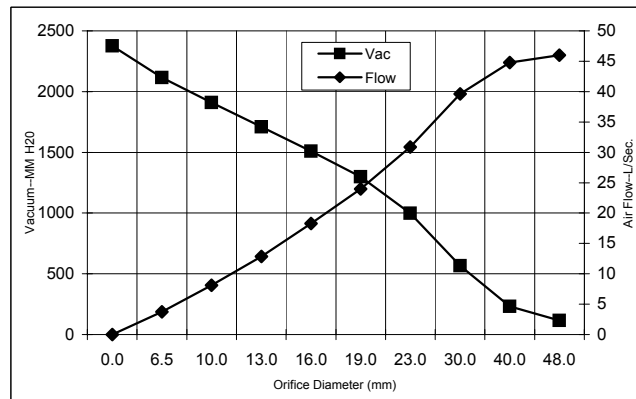
(At 220 volts, 60Hz, test data is corrected to standard conditions of 29.92 Hg, 68° F.)

ASTM
DATA



| Orifice (Inches) | Amps | Watts (In) | RPM | Vac (In.H2O) | Flow (CFM) | Air Watts |
|------------------|------|------------|-------|--------------|------------|-----------|
| 2.000 | 5.5 | 1161 | 19359 | 3.5 | 97.3 | 40 |
| 1.750 | 5.6 | 1163 | 19383 | 6.0 | 97.7 | 69 |
| 1.500 | 5.6 | 1166 | 19390 | 10.5 | 93.7 | 116 |
| 1.250 | 5.6 | 1174 | 19358 | 18.9 | 87.4 | 194 |
| 1.125 | 5.6 | 1175 | 19366 | 25.0 | 81.2 | 239 |
| 1.000 | 5.6 | 1171 | 19402 | 32.5 | 72.8 | 278 |
| 0.875 | 5.5 | 1161 | 19507 | 41.6 | 62.9 | 308 |
| 0.750 | 5.3 | 1127 | 19825 | 51.0 | 51.0 | 305 |
| 0.625 | 5.1 | 1069 | 20440 | 59.8 | 38.2 | 268 |
| 0.500 | 4.7 | 995 | 21218 | 68.1 | 26.0 | 208 |
| 0.375 | 4.3 | 917 | 22129 | 76.5 | 15.6 | 140 |
| 0.250 | 3.9 | 850 | 22906 | 83.6 | 7.5 | 74 |
| 0.000 | 3.6 | 779 | 23590 | 93.5 | 0.0 | 0 |

Metric
DATA



| Orifice (mm) | Amps | Watts (In) | RPM | Vac (mm H2O) | Flow (L/Sec) | Air Watts |
|--------------|------|------------|-------|--------------|--------------|-----------|
| 48.0 | 5.5 | 1162 | 19370 | 116 | 46.0 | 53 |
| 40.0 | 5.6 | 1165 | 19388 | 232 | 44.8 | 102 |
| 30.0 | 5.6 | 1175 | 19362 | 565 | 39.6 | 219 |
| 23.0 | 5.5 | 1164 | 19481 | 999 | 30.9 | 301 |
| 19.0 | 5.3 | 1126 | 19837 | 1300 | 24.0 | 304 |
| 16.0 | 5.1 | 1071 | 20415 | 1510 | 18.3 | 269 |
| 13.0 | 4.7 | 1002 | 21140 | 1709 | 12.8 | 214 |
| 10.0 | 4.3 | 929 | 21992 | 1911 | 8.1 | 150 |
| 6.5 | 3.9 | 853 | 22867 | 2114 | 3.7 | 77 |
| 0.0 | 3.6 | 779 | 23590 | 2375 | 0.0 | 0 |

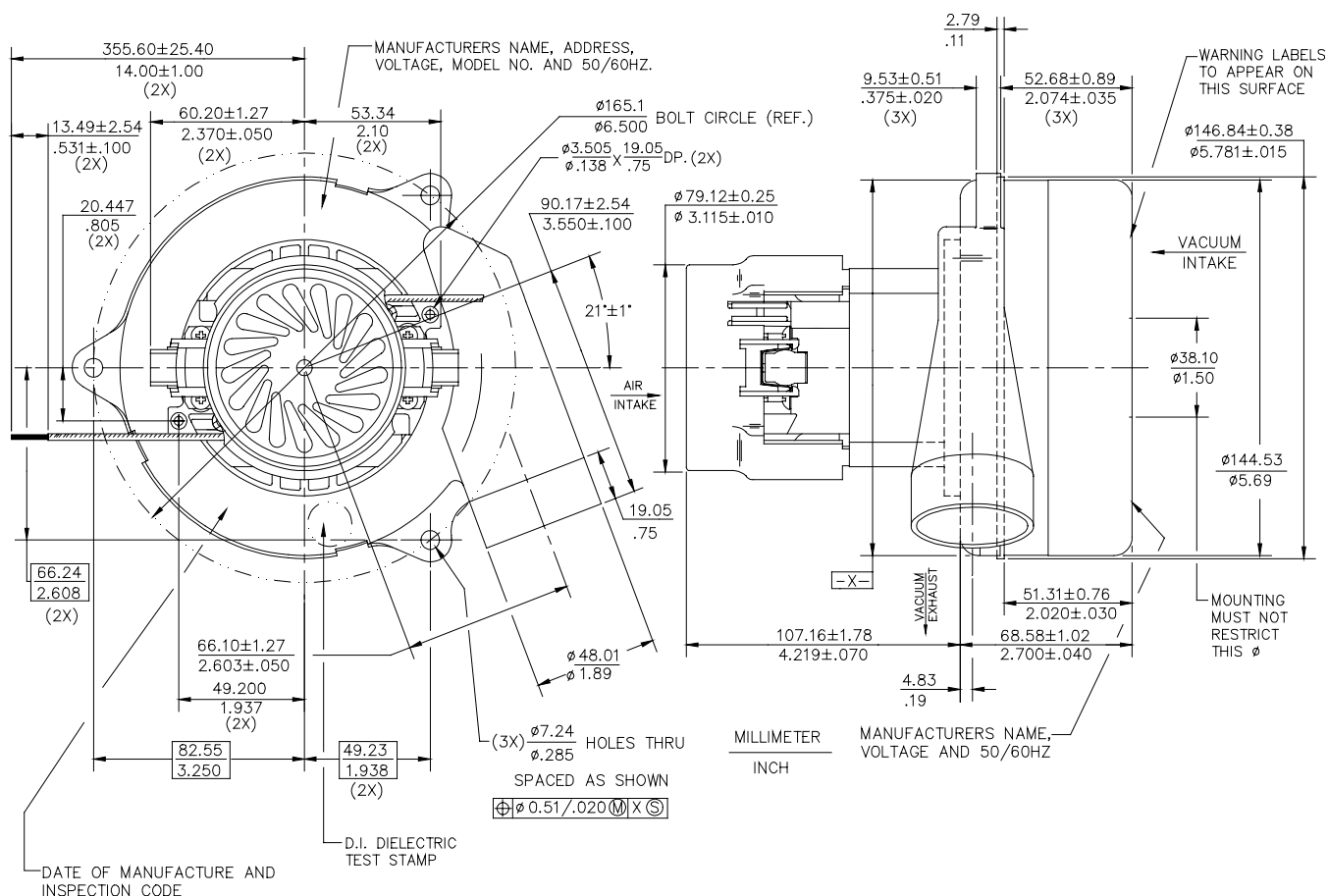
Note: Metric performance data is calculated from the ASTM data above.

* 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: | 220 volts | Minimum Sealed Vacuum: | 90.0" | ORIFICE: | 13 mm | Minimum Vacuum: | 64.0" | Maximum Watts: | 1100 |
|-------------|-----------|------------------------|-------|----------|-------|-----------------|-------|----------------|------|

NOTES:

1. LEADS: 18GA STRANDED. LEADS CAN BE ANY COLOR EXCEPT GREEN OR GREEN WITH YELLOW STRIPE.



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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