

LAMB ELECTRIC

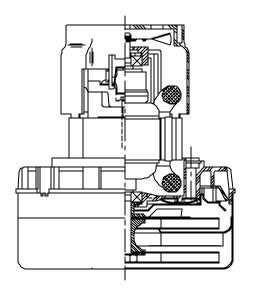
Model: 116599-13

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

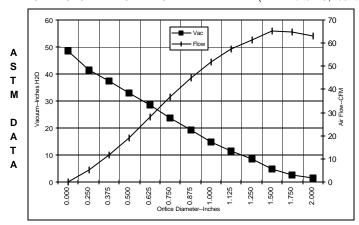


SPECIAL FEATURES

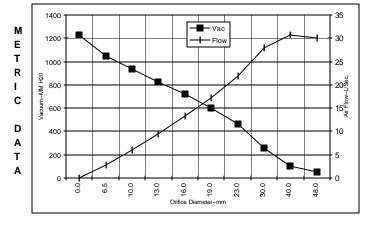
- Suitable for 24 volt DC operation
- UL Recognized, category PRGY2 (E47185)
- Provision for grounding
- Skeleton-frame design
- Epoxy painted fan case
- Patented air seal bearing construction. U.S. Patent #4,088,424
- ACUSTEK® low noise design, U.S. Patent #1,417,200
- The Lamb Electric vacuum motor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

TYPICAL MOTOR PERFORMANCE.*

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



| 12630 | (In.H2O) | (CFM) | Watts |
|----------------|---|---|---|
| 12630 | 1.4 | | |
| | 1.4 | 63.2 | 10 |
| 12640 2.5 64.6 | | 64.6 | 19 |
| 12610 | 4.7 | 65.1 | 36 |
| 12540 | 2540 8.6 61.2 | | 62 |
| 12530 | 11.5 | 57.3 | 77 |
| 12560 | 15.0 | 51.7 | 91 |
| 12690 | 19.2 | 44.8 | 101 |
| 12960 | 12960 23.7 36.6 | | 102 |
| 13400 28.7 27. | | 27.9 | 94 |
| 13910 | 33.0 | 19.2 | 74 |
| 14590 37.4 11 | | 11.5 | 50 |
| 15210 | 41.6 | 5.4 | 26 |
| 15840 | 48.5 | 0.0 | 0 |
| | 12640 12610 12540 12530 12560 12690 12960 13400 13910 14590 15210 | 12640 2.5 12610 4.7 12540 8.6 12530 11.5 12560 15.0 12690 19.2 12960 23.7 13400 28.7 13910 33.0 14590 37.4 15210 41.6 | 12640 2.5 64.6 12610 4.7 65.1 12540 8.6 61.2 12530 11.5 57.3 12560 15.0 51.7 12690 19.2 44.8 12960 23.7 36.6 13400 28.7 27.9 13910 33.0 19.2 14590 37.4 11.5 15210 41.6 5.4 |



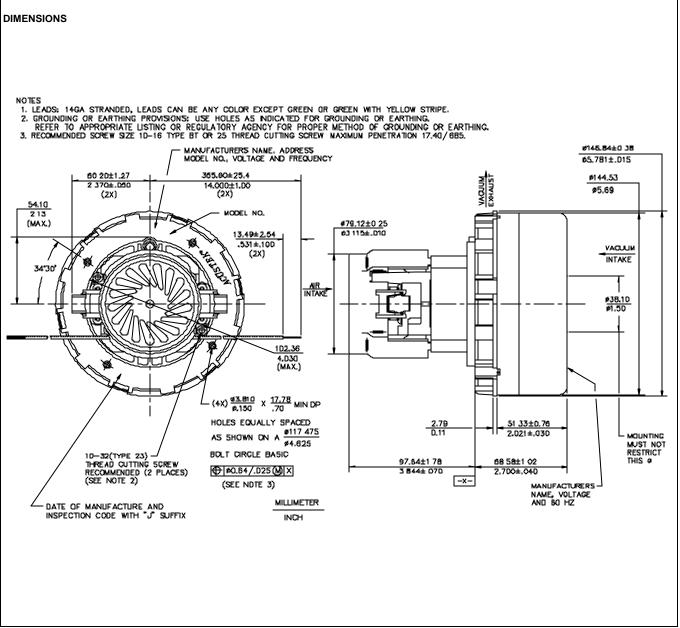
| Orifice | Amps | Watts | RPM | Vac | Flow | Air | |
|---------|------|-------|-------|----------|---------|-------|--|
| (mm) | | (In) | | (mm H2O) | (L/Sec) | Watts | |
| 48.0 | 16.9 | 421 | 12634 | 48 | 30.1 | 14 | |
| 40.0 | 17.0 | 423 | 12619 | 103 | 30.7 | 31 | |
| 30.0 | 17.1 | 426 | 12535 | 259 | 27.9 | 70 | |
| 23.0 | 16.9 | 420 | 12658 | 461 | 22.0 | 99 | |
| 19.0 | 16.4 | 410 | 12969 | 605 | 17.2 | 102 | |
| 16.0 | 15.7 | 390 | 13382 | 724 | 13.3 | 94 | |
| 13.0 | 14.9 | 372 | 13859 | 827 | 9.5 | 76 | |
| 10.0 | 14.1 | 351 | 14488 | 933 | 6.0 | 54 | |
| 6.5 | 13.2 | 325 | 15179 | 1051 | 2.7 | 27 | |
| 0.0 | 12.5 | 308 | 15840 | 1232 | 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 variati

| Test Specs: | 24 volts | Minimum Sealed Vacuum: | 45.1" | ORIFICE: | 7/8 " | Minimum Vacuum | 17.5" | Maximum Watts: | 480 |
|-------------|----------|------------------------|-------|----------|-------|----------------|-------|----------------|-----|

PRODUCT BULLETIN 116599-13



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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