

AMETEK

LAMB ELECTRIC

Product Bulletin

Model: 119710-00

DESCRIPTION

- Two stage
- 230 volts
- 5.7"/ 145 mm diameter
- Dual ball bearings
- Single speed
- Tangential bypass discharge
- Aluminum 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 230 volt AC operation, 50/60 Hz

- UL recognized, category PRGY2 (E47185)

- Provision for grounding
- Skeleton frame design
- Tapered fan system

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



| T | <u>YPICA</u> | <u>IL N</u> | <u>10T</u> | <u>OR</u> | PE | RF | OR | MA | <u>NC</u> | <u>E.*</u> | | (At 23 | 30 vo | lts, 6 | 0Hz, | test dat | ta is correcte | d to standa | rd condition | ns of 29.92 | Hg, 68° F.) | | |
|---|------------------|-------------|------------|-----------|--------------|------|--------|--------|--------------|------------|------|----------|-------|--------|------|----------|----------------|-------------|--------------|-------------|-------------|-------|-------|
| | 140 | т — | 1 | | | | | | -1 | | | | | | - 12 | 0 | Orifice | Amps | Watts | RPM | Vac | Flow | Air |
| | | | | | | | | - | Vac | | | 0 | -~ | ~ | | | (Inches) | | (In) | | (In.H2O) | (CFM) | Watts |
| | 120 | + | | | | | | | Flow | | × | <u> </u> | | | + 10 | 0 | 2.000 | 6.9 | 1529 | 22,083 | 4.7 | 112.5 | 62 |
| | 0.00 | | _ | | | | | | 0 | 0 | | | | | | | 1.750 | 6.9 | 1530 | 22,073 | 7.6 | 109.8 | 98 |
| Α | ₽ ¹⁰⁰ | | | | | _ | | 6 | r | | | | | | - 80 | 5 | 1.500 | 6.9 | 1532 | 22,060 | 13.4 | 105.4 | 166 |
| S | 08 Jes | <u> </u> | | | | | \sim | \sim | | | | | | | | Ч Ч | 1.250 | 6.9 | 1533 | 22,040 | 23.8 | 97.6 | 273 |
| Т | -lnc | | | | | | ᄶ | | | | | | | | + 60 | NO | 1.125 | 6.9 | 1532 | 22,026 | 32.4 | 91.8 | 349 |
| Μ | 늘 60 | + | | | | ø | 1 | ■ | \leftarrow | | | | | | - | Ē | 1.000 | 6.9 | 1520 | 22,126 | 43.4 | 83.6 | 426 |
| | acu a | | | | \checkmark | / | | | | | | | | | + 40 | Ā | 0.875 | 6.8 | 1496 | 22,310 | 56.0 | 72.7 | 478 |
| D | > 40 | | | | \sim | | | | | | / | | | | | | 0.750 | 6.5 | 1442 | 22,690 | 69.4 | 59.2 | 483 |
| Α | 20 | + | ~ | ~ | | | | | | | ſ | ┝∎⊾ | | | + 20 | | 0.625 | 6.1 | 1362 | 23,370 | 81.1 | 44.3 | 422 |
| Т | | 0 | | | | | | | | | | | | | | | 0.500 | 5.7 | 1265 | 24,263 | 91.0 | 30.0 | 321 |
| Α | 0 | + | - | 2 2 | 0 | 22 | 0 | 2 | + | 1 10 | 0 | + | 0 | + | + 0 | | 0.375 | 5.2 | 1161 | 25,426 | 100.9 | 17.8 | 211 |
| | | 0.00 | 0.25 | 0.37 | 0.50 | p.62 | 0.75 | 0.87 | 1.00 | .13 | 1.25 | 1.50 | 1.75 | 2.00 | | | 0.250 | 4.7 | 1063 | 26,450 | 110.0 | 8.5 | 110 |
| | | | | | | Ori | tice D | lame | ter (In | cnes) | | | | | | | 0.000 | 4.4 | 989 | 27,650 | 121.6 | 0.0 | 0 |
| | | | | | | Ori | fice D | lame | ter (Ind | cnes) | | | | | | | 0.000 | 4.4 | 989 | 27,650 | 121.6 | 0.0 | |



| Orifice | Amns | Watts | RPM | Vac | Flow | Δir |
|---------|-------|-------|-------|----------|---------|-------|
| (mm) | 7 mpo | (In) | | (mm H2O) | (L/Sec) | Watts |
| 48.0 | 6.9 | 1529 | 22079 | 151 | 52.5 | 78 |
| 40.0 | 6.9 | 1531 | 22064 | 296 | 50.4 | 146 |
| 30.0 | 6.9 | 1532 | 22032 | 725 | 44.6 | 315 |
| 23.0 | 6.8 | 1502 | 22264 | 1342 | 35.6 | 465 |
| 19.0 | 6.5 | 1440 | 22704 | 1769 | 27.8 | 482 |
| 16.0 | 6.2 | 1365 | 23343 | 2048 | 21.2 | 424 |
| 13.0 | 5.7 | 1275 | 24174 | 2286 | 14.8 | 331 |
| 10.0 | 5.3 | 1177 | 25252 | 2525 | 9.3 | 228 |
| 6.5 | 4.8 | 1068 | 26399 | 2782 | 4.2 | 115 |
| 0.0 | 4.4 | 989 | 27650 | 3089 | 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 to normal manufacturing variations.

PRODUCT BULLETIN

DIMENSIONS



WARNING - When using AMETEK/Lamb Electric bypass motors in machines that come in contact with foam, liquid (including water) of 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 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 motors should be submitted to appropriate organizations or agencies for testing specifically related to the safety of your equipment.

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