



**LAMB ELECTRIC**

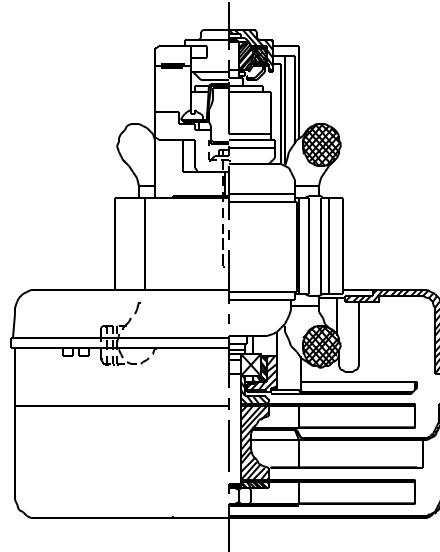
**Model: 116670-50**

**DESCRIPTION**

- Two stage
- 240 volt
- 5.7"/145 mm diameter
- Ball/sleeve bearings
- Single speed
- Thru-flow discharge
- Aluminum fan end bracket
- Aluminum commutator bracket

**DESIGN APPLICATION**

- Equipment operating in environments not requiring separation of working air from motor ventilating air
- Designed to handle clean, dry, filtered air only

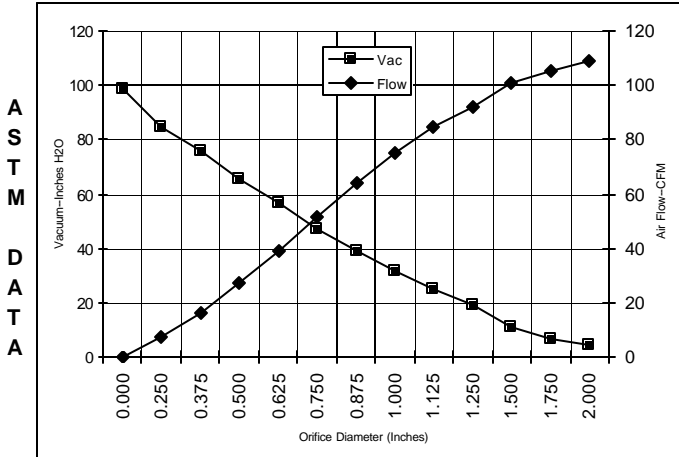


**SPECIAL FEATURES**

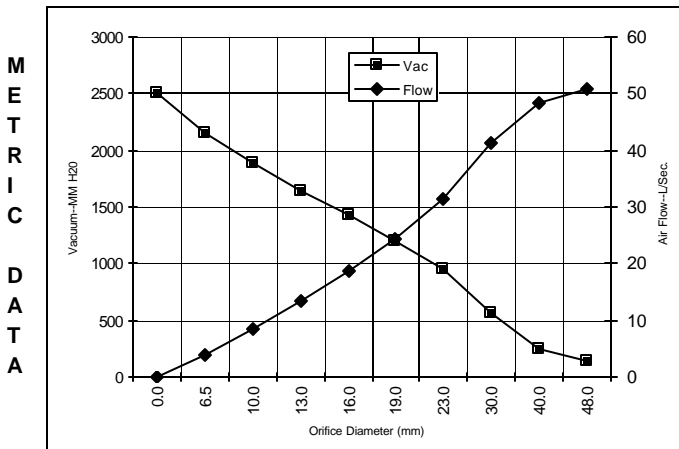
- Suitable for 240 volt AC operation, 50/60 Hz
- UL recognized, category PRGY2 (E47185)
- CSA certified, class 1611 01 (LR31393)
- Provision for grounding
- Skeleton-frame design
- Thermal protection, automatic reset, UL category XEWR2 (E27701)
- The Lamb Electric vacuum motor line offers a wide range of performance levels to meet design needs

**TYPICAL MOTOR PERFORMANCE.\***

(At 240 volts, 60Hz, test data is corrected to standard conditions of 29.92 Hg, 68° F.)



| Orifice (Inches) | Amps | Watts (In) | RPM   | Vac (In.H <sub>2</sub> O) | Flow (CFM) | Air Watts |
|------------------|------|------------|-------|---------------------------|------------|-----------|
| 2.000            | 4.2  | 977        | 19117 | 4.2                       | 108.9      | 53        |
| 1.750            | 4.3  | 1000       | 18979 | 6.6                       | 105.3      | 82        |
| 1.500            | 4.3  | 1016       | 18841 | 11.3                      | 101.2      | 135       |
| 1.250            | 4.4  | 1029       | 18566 | 19.4                      | 91.9       | 210       |
| 1.125            | 4.4  | 1037       | 18566 | 25.0                      | 84.5       | 248       |
| 1.000            | 4.4  | 1031       | 18566 | 31.5                      | 75.0       | 278       |
| 0.875            | 4.3  | 1009       | 18831 | 39.1                      | 64.0       | 294       |
| 0.750            | 4.0  | 970        | 19255 | 47.3                      | 51.7       | 288       |
| 0.625            | 3.8  | 913        | 20007 | 56.7                      | 39.3       | 262       |
| 0.500            | 3.5  | 841        | 21014 | 65.7                      | 27.1       | 209       |
| 0.375            | 3.2  | 769        | 22254 | 75.5                      | 16.3       | 145       |
| 0.250            | 2.8  | 705        | 23557 | 84.9                      | 7.7        | 77        |
| 0.000            | 2.6  | 643        | 24659 | 98.6                      | 0.0        | 0         |



| Orifice (mm) | Amps | Watts (In) | RPM   | Vac (mm H <sub>2</sub> O) | Flow (L/Sec) | Air Watts |
|--------------|------|------------|-------|---------------------------|--------------|-----------|
| 48.0         | 4.2  | 987        | 19056 | 133                       | 50.7         | 66        |
| 40.0         | 4.3  | 1011       | 18882 | 251                       | 48.3         | 119       |
| 30.0         | 4.4  | 1033       | 18566 | 571                       | 41.5         | 231       |
| 23.0         | 4.3  | 1015       | 18765 | 945                       | 31.5         | 290       |
| 19.0         | 4.0  | 969        | 19270 | 1206                      | 24.3         | 287       |
| 16.0         | 3.8  | 915        | 19977 | 1431                      | 18.8         | 263       |
| 13.0         | 3.5  | 848        | 20913 | 1646                      | 13.4         | 214       |
| 10.0         | 3.2  | 780        | 22068 | 1880                      | 8.5          | 155       |
| 6.5          | 2.9  | 708        | 23492 | 2145                      | 3.8          | 80        |
| 0.0          | 2.6  | 643        | 24659 | 2504                      | 0.0          | 0         |

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

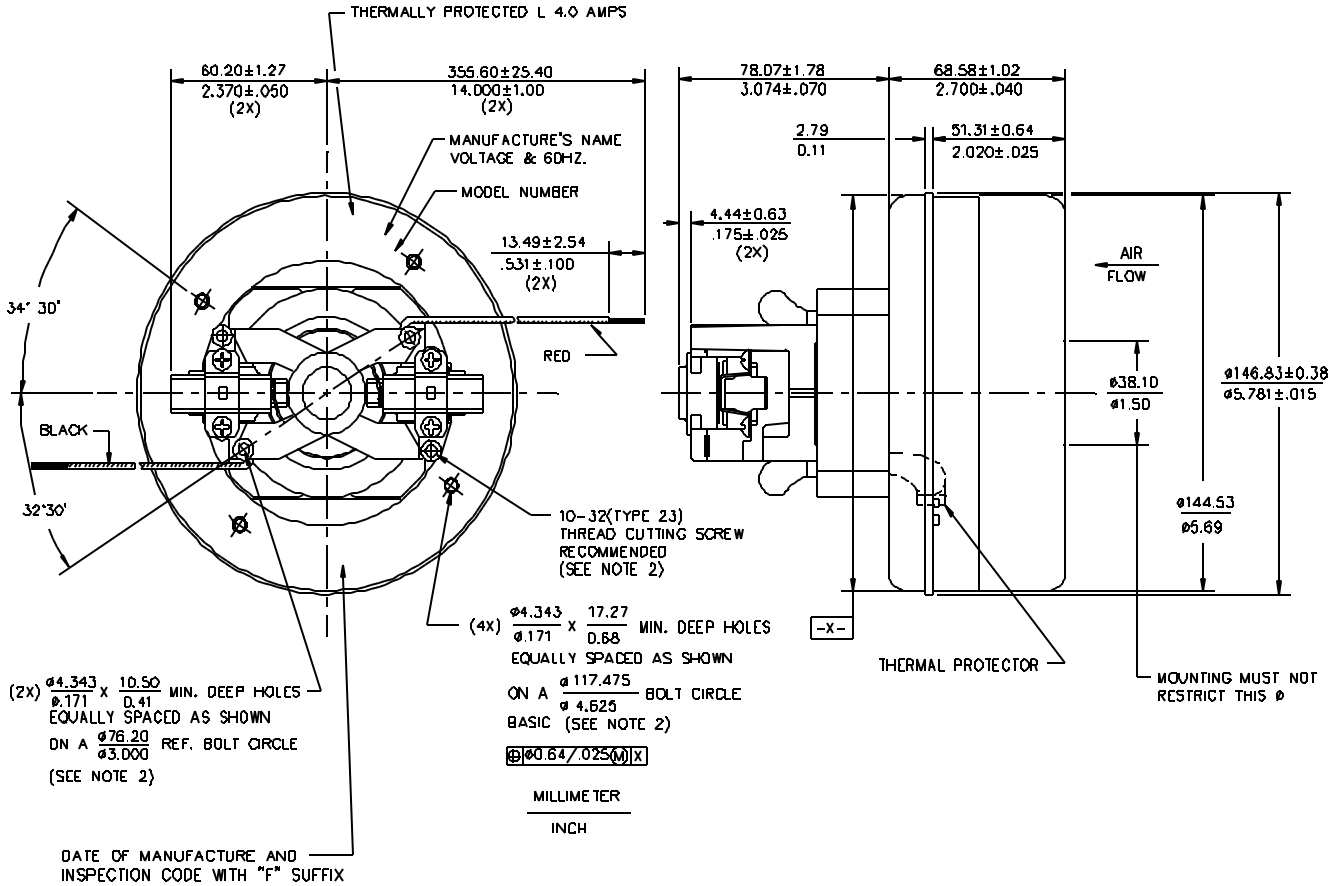
\* Data represents performance of a typical motor sampled from a large production quantity. Individual motor data may vary due to normal manu

|             |           |                        |       |          |       |                 |       |                |      |
|-------------|-----------|------------------------|-------|----------|-------|-----------------|-------|----------------|------|
| Test Specs: | 240 volts | Minimum Sealed Vacuum: | 89.0" | ORIFICE: | 7/8 " | Minimum Vacuum: | 35.0" | Maximum Watts: | 1070 |
|-------------|-----------|------------------------|-------|----------|-------|-----------------|-------|----------------|------|

**DIMENSIONS**

**NOTES:**

1. LEADS: BLACK AND RED, 18GA. STRANDED (BLACK LEAD IS THERMAL PROTECTOR LEAD.)
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.



**IMPORTANT NOTE:** Pictorial and dimensional data are subject to change without notice. Contact factory for current revision levels.

**WARNING** - AMETEK Lamb Electric thru-flow vacuum motors must never be used in applications in which wet or moist conditions ; where dry chemicals or other volatile materials are present, or where airflow may be restricted or blocked. Such motors are designed to permit th to pass over the electrical winding to cool it. Thus any foam, liquid (including water), dry chemical, or other foreign substance coming in contact conductors could cause combustion (depending on volatility) or electrical shock. Failure to observe these precautions could result in property dai severe personal injury, including death in extreme cases. All applications incorporating Lamb Electric motors should be submitted to Underwriter or other appropriate organizations or agencies for testing specifically related to the safety of your equipment.

**AMETEK/Lamb Electric Division**  
627 Lake Street  
Kent, Ohio 44240  
U.S.A.  
Tel: (330) 673-3451  
Fax: (330) 673-8994

**Ametek GmbH**  
P. O. Box 1251  
D-71667 Marbach  
Germany  
Phone: + 49-714-484-9512  
Fax: + 49-714-484-9513

**AMETEK/Singapore Private Limited**  
10 Ang Mo Kio Street 65  
# 05-12 Techpoint  
Singapore 2056  
Tel: + 65-484-2388  
Fax: + 65-481-6588