

# AMETEK

## LAMB ELECTRIC

### Model: 115684

#### DESCRIPTION

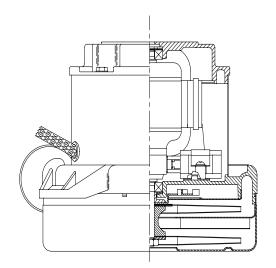
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- Two stage
- Single speed
- 7.2"/183mm diameter
- 240 volts
- Double ball bearings
- Tangential bypass discharge
- Aluminum fan end bracket
- Aluminum commutator bracket

#### **DESIGN APPLICATION**

- Equipment operating in environments which require separation of working air from motor ventilating air

- Designed to handle clean, dry, filtered air only



## SPECIAL FEATURES

- Suitable for 240 volt operation, 50/60 Hz
- Provision for grounding
- Epoxy painted fan case
- UL recognized, category PRGY2 (E47185)

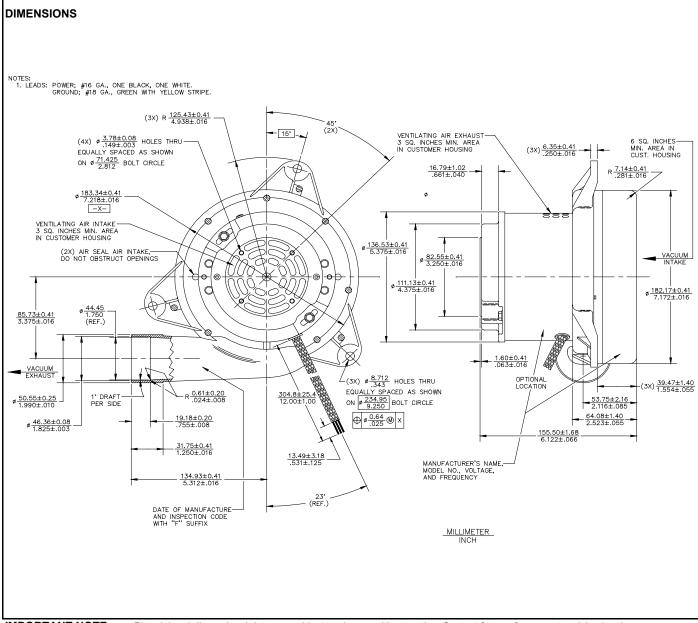
- The Lamb Electric vacuum motor line offers a wide range of performance levels to meet design needs

												Orifice	Amps	Watts	RPM	Vac	Flow	Air
120	_				└─ Vac	5					T 120	(Inches)		(In)		(In.H2O)	(CFM)	Wat
100 -					Flov						100	2.000	5.9	1282	15417	3.5	97.8	40
100 -		_								-	100	1.750	5.9	1280	15377	6.1	99.2	72
80 -			_					×			- 80	1.500	5.9	1279	15351	10.9	95.4	122
			┖									1.250	5.9	1278	15358	18.9	87.4	19
60 -					×						- 60 1/2	1.125	5.9	1272	15419	25.0	81.2	238
80 - 60 -											Air FlowCFM	1.000	5.8	1259	15550	32.9	73.3	28
40 -			- /	1				_			- 40 <sup>- 2</sup>	0.875	5.7	1241	15719	42.9	63.9	32
			*									0.750	5.5	1209	16005	54.7	52.7	33
20 -				-					_	_	- 20	0.625	5.3	1146	16526	65.8	40.0	30
								ľ				0.500	4.9	1071	17221	77.1	27.6	25
				+		-			_		+ 0	0.375	4.5	984	18087	87.9	16.6	17
0 +	0 0	5	o s	0	2	0	2	0	0	. o		0.375						
0 +	0.000 <	0.375	0.500 0.625	0.750	0.875	1.000	1.125	1.250	1.750	2.000		0.250	4.1	903	18983	97.7	8.1	93
0 +	0.000	0.375	0.500 0.625	0.750 Orifice	SL8.0 Diamete	er (Inche	-	1.250	1.750	2.000					18983 19980	97.7 110.0	8.1 0.0	
3000	0.000	0.375	0.500		Diamete	er (Inche	-	1.250	1.750	2.000	T 50	0.250	4.1	903			-	0
3000	0.000	0.375	0.625		Diamete	er (Inche	es)	1.250	1.750	2.000	- 50 - 45	0.250 0.000	4.1 3.7	903 835	19980	110.0	0.0	0 Ai
	0.000	0.375	0.500		Diamete	er (Inche	es)	1.250	1.750	2.000		0.250 0.000 Orifice	4.1 3.7	903 835 Watts	19980	110.0 <b>Vac</b>	0.0 Flow	0 Ai Wa
3000 2500	0.000	0.375	0.500		Diamete	er (Inche	es)	1.250	1.750	2.000	- 45 - 40 - 35	0.250 0.000 Orifice (mm)	4.1 3.7 Amps	903 835 Watts (In)	19980 RPM	110.0 Vac (mm H2O)	0.0 Flow (L/Sec)	0 Ai Wa 54
3000 2500	0.000	0.375	0.625		Diamete	er (Inche	es)	1.250	1.750	5.000	- 45 - 40 - 35	0.250 0.000 Orifice (mm) 48.0	4.1 3.7 Amps 5.9	903 835 Watts (In) 1281	19980 <b>RPM</b> 15399	110.0 Vac (mm H2O) 118	0.0 Flow (L/Sec) 46.5	0 Ai Wat 54
3000 2500	0.000	0.375	0.625		Diamete	er (Inche	es)	1.250	1.750	2:000	- 45 - 40 - 35 - 30 👸	0.250 0.000 Orifice (mm) 48.0 40.0	4.1 3.7 Amps 5.9 5.9	903 835 Watts (In) 1281 1279	19980 <b>RPM</b> 15399 15359	110.0 Vac (mm H2O) 118 240	0.0 Flow (L/Sec) 46.5 45.6	0 Ai Wat 54 10 21
3000 2500	0.250	0.375	0.620		Diamete	er (Inche	es)	1.250	1.750	2.000	- 45 - 40 - 35 - 30 👸	0.250 0.000 Orifice (mm) 48.0 40.0 30.0	4.1 3.7 <b>Amps</b> 5.9 5.9 5.9 5.9	903 835 Watts (In) 1281 1279 1275	19980 <b>RPM</b> 15399 15359 15392	110.0 Vac (mm H2O) 118 240 565	0.0 Flow (L/Sec) 46.5 45.6 39.6	0 Ai Wat 5 <sup>2</sup> 10 21 31
3000 2500	0.250	0.375	0.500		Diamete	er (Inche	es)	1.250	1.750	2.000	- 45 - 40 - 35 - 30 ss/T-MOL J - 25 J	0.250 0.000 Orifice (mm) 48.0 40.0 30.0 23.0	4.1 3.7 Amps 5.9 5.9 5.9 5.9 5.9 5.8	903 835 Watts (In) 1281 1279 1275 1246	19980 <b>RPM</b> 15399 15359 15392 15677 16015 16505	110.0 Vac (mm H2O) 118 240 565 1026	0.0 Flow (L/Sec) 46.5 45.6 39.6 31.3	0 Ai 54 10 21 31 33
3000 2500 22000 22000 1500	0.250	0.375	0.500		Diamete	er (Inche	es)	1.250		5.000	- 45 - 40 - 35 - 30 <sub>55</sub> - 25 <sub>50</sub> - 20 - 20 - 15	0.250 0.000 Orifice (mm) 48.0 40.0 30.0 23.0 19.0	4.1 3.7 <b>Amps</b> 5.9 5.9 5.9 5.9 5.9 5.8 5.5	903 835 Watts (In) 1281 1279 1275 1246 1208	19980 <b>RPM</b> 15399 15359 15392 15677 16015	110.0 Vac (mm H2O) 118 240 565 1026 1395	0.0 Flow (L/Sec) 46.5 45.6 39.6 31.3 24.8	0 <b>Ai</b> 52 10 21 31 33 31
3000 2500 22000 22000 1500	0.250	0.375	0.500		Diamete	er (Inche	es)	1.250		5.000	- 45 - 40 - 35 - 30 5 - 25 - 20 <sup>1</sup> / <sub>1</sub> - 15 - 10	0.250 0.000 Orifice (mm) 48.0 40.0 30.0 23.0 19.0 16.0	4.1 3.7 <b>Amps</b> 5.9 5.9 5.9 5.9 5.9 5.8 5.5 5.3	903 835 Watts (In) 1281 1279 1275 1246 1208 1149	19980 <b>RPM</b> 15399 15359 15392 15677 16015 16505	110.0 Vac (mm H2O) 118 240 565 1026 1395 1660	0.0 Flow (L/Sec) 46.5 45.6 39.6 31.3 24.8 19.1	0 <b>Ai</b> 54 10 21 31 33 31 25
3000 2500 22000 2000 1500 1000	0.250	0.375	0.500		Diamete	er (Inche	es)	1.250		5.000	- 45 - 40 - 35 - 30 <sub>55</sub> - 25 <sub>50</sub> - 20 - 20 - 15	0.250 0.000 0rifice (mm) 48.0 40.0 30.0 23.0 19.0 16.0 13.0	4.1 3.7 <b>Amps</b> 5.9 5.9 5.9 5.9 5.9 5.8 5.5 5.3 4.9	903 835 Watts (In) 1281 1279 1275 1246 1208 1149 1079	19980 <b>RPM</b> 15399 15359 15392 15677 16015 16505 17152	110.0 Vac (mm H2O) 118 240 565 1026 1395 1660 1930	0.0 Flow (L/Sec) 46.5 45.6 39.6 31.3 24.8 19.1 13.6	93 0 <b>Ai</b> 54 10 219 311 333 310 250 183 97

\* 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:	240 volts	Minimum Sealed Vacuum:	85.0"	ORIFICE:	7/8"	Minimum Vacuum:	39.0"	Maximum Watts:	1250	I
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#### **PRODUCT BULLETIN**



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.

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