

496.3.535-6

Vacuum cleaner motor performance

DOMEL®

Vacuum cleaner motors 496.3.535-6/ 1000W/ 230V/ 50Hz are used for dry aspiration. Technical data and dimensions are given in the table. Vacuum cleaner motors consist of universal commutator motor and two fan stages. The rotor is supported with two ball bearings enabling vertical or horizontal installation of motor.

The motor is designed for insulation class 130 (B) and constructed according to EN 60335-1.

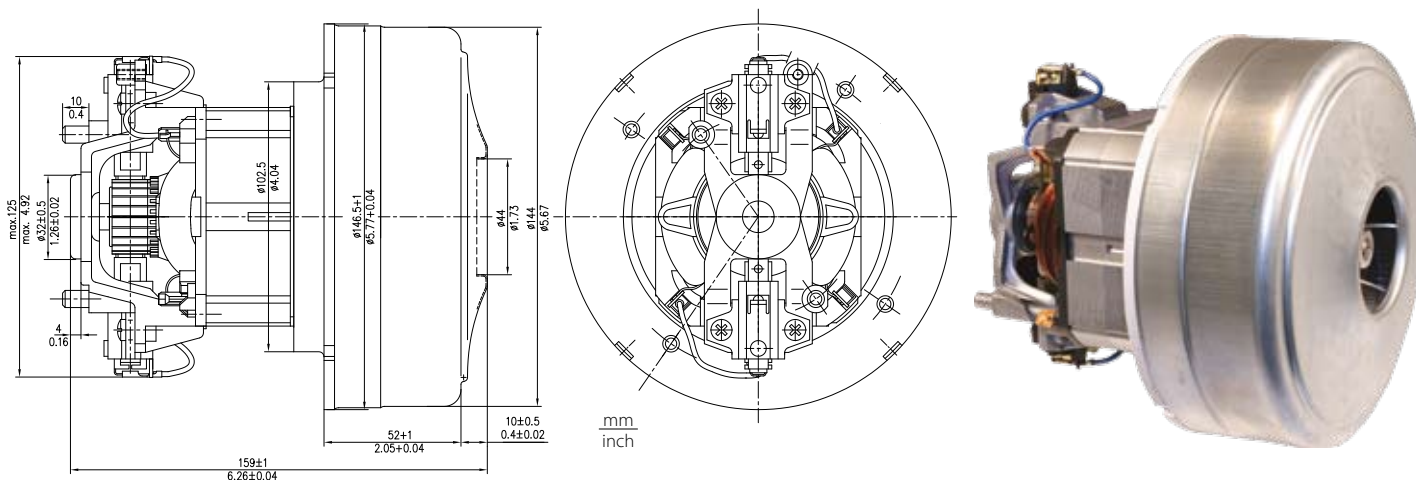
The motor has provision for grounding.

Technical data:

| | | | |
|-------------------|--------------|--------|--------------------------------------|
| Normal operation: | P_m | \geq | 880 W |
| Vacuum: | P_{max} | \geq | 21,9 kPa 88,1 in H ₂ O |
| Air Flow: | Q_{max} | \geq | 54 dm ³ /s 114 CFM |
| Air Power: | P_{2max} | \geq | 392 W |
| Efficiency: | η_{max} | \geq | 36 % |
| Mass: | m | = | 2,21 kg |

| | |
|----------------|--------|
| Voltage: | 230 V |
| Frequency: | 50 Hz |
| Nominal Power: | 1000 W |

Max power 1150W



Dimensional and performance data are subject to change without notice.

| Orifice | | Current | Input Power | Speed | Pressure | | Air Flow | | Air power | Efficiency |
|---------|-------|---------|-------------|-------------------|----------|---------------------|--------------------|-------|-----------|------------|
| mm | in* | A | W | min ⁻¹ | kPa | in H ₂ O | dm ³ /s | CFM | W | % |
| 40 | 1 1/2 | 5,20 | 1127 | 20917 | 2,9 | 11,7 | 51,8 | 109,7 | 160 | 13,3 |
| 30 | 1 1/8 | 5,24 | 1134 | 20809 | 7,2 | 29,1 | 45,6 | 96,5 | 330 | 29,1 |
| 23 | 7/8 | 5,06 | 1097 | 21089 | 12,1 | 48,5 | 34,2 | 72,4 | 413 | 37,6 |
| 19 | 3/4 | 4,76 | 1035 | 21648 | 14,8 | 59,4 | 25,7 | 54,4 | 379 | 36,6 |
| 16 | 5/8 | 4,44 | 969 | 22303 | 16,7 | 67,1 | 19,3 | 40,9 | 322 | 33,2 |
| 13 | 1/2 | 4,08 | 896 | 23149 | 18,4 | 74,1 | 13,4 | 28,3 | 246 | 27,5 |
| 10 | 3/8 | 3,68 | 813 | 24236 | 20,0 | 80,4 | 8,3 | 17,5 | 165 | 20,3 |
| 6,5 | 1/4 | 3,17 | 706 | 25867 | 21,8 | 87,4 | 3,7 | 7,8 | 80 | 11,3 |
| 0 | 0 | 2,74 | 617 | 27682 | 23,0 | 92,6 | 0,0 | 0,0 | 0 | 0,0 |

Data above represent the performance of an average motor sample. Individual data may vary due to normal manufacturing variations.

* Orifice in inch is only approximative.