440.3.607
Vacuum cleaner motor performance

DOMEL®

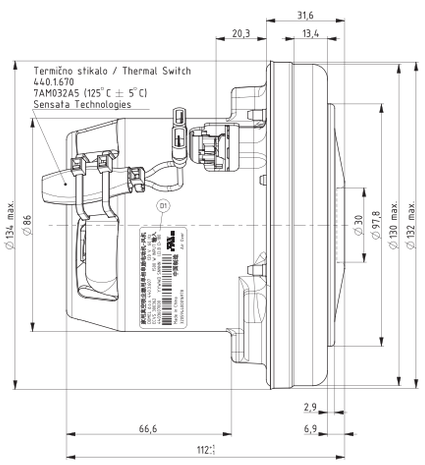
Vacuum cleaner motors with high efficiency 440.3.607 / 1500W / 120V / 60Hz are used for dry aspiration. Technical data and dimensions are given in the table. Vacuum motors consist of universal commutator motor and single fan stage. The rotor is supported with two ball bearings enabling vertical or horizontal installation of motor. The motor is designed for insulation class 130 (B) and constructed according to EN 60335-1.

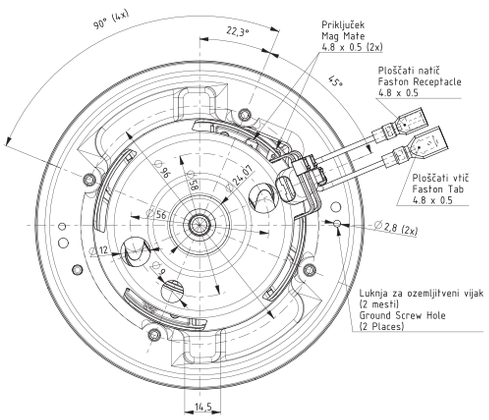
Technical data:

Normal operation:	P_m	>=	1520	W
Vacuum:	p_{max}	>=	29 116,4	kPa in H_2O
Air Flow at φ50:	$Q_{φ50}$	>=	51 108	dm^3/s CFM
Air Power:	P_{2max}	>=	600	W
Efficiency:	$η_{max}$	>=	41	%
Mass:	m	=	1,39	kg

Voltage:	120 V
Frequency:	60 Hz
Nominal Power:	1500 W

Max. power 1600W





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_2O	dm^3/s	CFM	W	%
50	2	13,43	1589	37435	1,3	4,5	53,6	113,9	68	4,3
40	1 1/2	13,38	1584	37578	2,9	15,3	51,8	107,8	150	9,5
30	1 1/8	13,28	1581	37956	7,7	37,0	46,8	95,4	358	22,7
23	7/8	12,81	1532	38993	15,3	65,8	38,1	77,5	584	38,1
19	3/4	12,11	1451	40549	20,9	83,8	30,0	63,8	628	43,3
16	5/8	11,36	1362	42178	25,1	101,2	23,1	48,2	579	42,5
13	1/2	10,60	1267	43792	27,3	109,9	15,8	32,2	432	34,1
10	3/8	9,97	1195	45907	28,1	113,4	9,6	18,7	269	22,5
6	1/4	9,29	1122	48835	28,9	116,2	4,1	8,6	120	10,7
0	0	8,77	1065	51573	30,5	122,5	0,0	0,0	0	0,0

Data above represent the preformance of an average motor sample. Individual data may vary due to normal manufacturing variations.
* Orifice in inch is only approximative.