440.3.403
Vacuum cleaner motor performance

DOMEL®

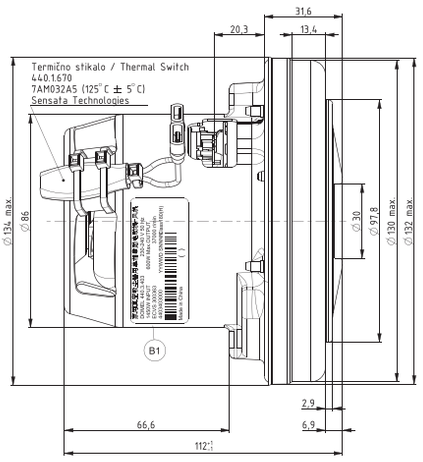
Vacuum cleaner motors with high efficiency 440.3.403 / 1500W / 230-240V / 50Hz are used for dry aspiration. Technical data and dimensions are given in the table. Vacuum motors consist of universal commutator motor and single fan stage. The rotor is supported with two ball bearings enabling vertical or horizontal installation of motor. The motor is designed for insulation class 180 (H) and constructed according to EN 60335-1.

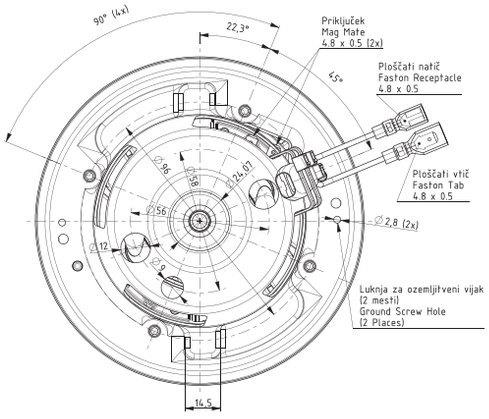
Technical data:

Normal operation:	P_m	>=	1470	W
Vacuum:	p_{max}	>=	28 112,4	kPa in H_2O
Air Flow at φ50:	$Q_{\varphi 50}$	>=	50 106	dm^3/s CFM
Air Power:	P_{2max}	>=	580	W
Efficiency:	η_{max}	>=	41	%
Mass:	m	=	1,29	kg

Voltage:	230 - 240 V
Frequency:	50 Hz
Nominal Power:	1450 W

Max. power 1500W





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	6,93	1570	37515	1,2	4,4	52,6	111,8	64	4,1
40	1 1/2	6,91	1567	37605	2,8	14,9	51,1	106,3	144	9,2
30	1 1/8	6,81	1544	37866	7,5	36,2	46,3	94,5	347	22,5
23	7/8	6,55	1487	38868	15,0	64,5	37,8	76,7	567	38,1
19	3/4	6,18	1406	40287	20,4	81,8	29,7	63,1	607	43,2
16	5/8	5,83	1328	41882	24,6	99,2	22,9	47,8	562	42,3
13	1/2	5,45	1243	43760	27,4	110,1	15,9	32,3	434	34,9
10	3/8	5,06	1156	46012	28,1	113,2	9,6	18,7	268	23,2
6	1/4	4,59	1050	48815	28,8	115,8	4,1	8,6	119	11,4
0	0	4,27	978	51200	29,5	118,3	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.