440.3.402-17
Vacuum cleaner motor performance

DOMEL®

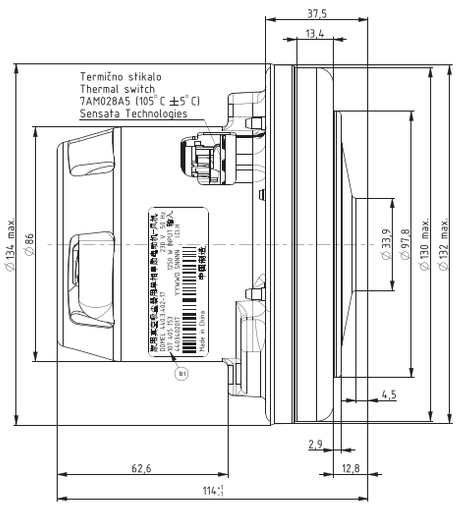
Vacuum cleaner motors with high efficiency 440.3.402-17 / 1250W / 230V / 50Hz are used for dry aspiration. Technical data and dimensions are given in the table. Vacuum motors consist of universal commutator motor and single fan stage. The rotor is supported with two ball bearings enabling vertical or horizontal installation of motor. The motor is designed for insulation class 180 (H) and constructed according to EN 60335-1.

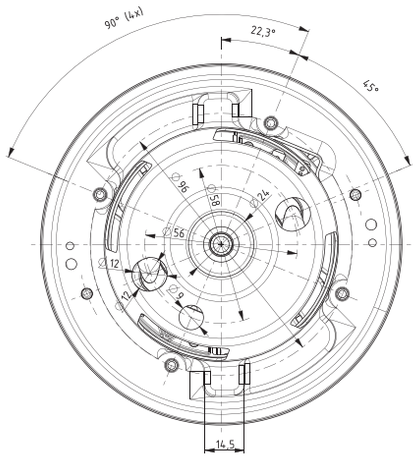
Technical data:

Normal operation:	P_m	>=	1380	W
Vacuum:	p_{max}	>=	27,5 110,1	kPa in H_2O
Air Flow at φ50:	$Q_{φ50}$	>=	47 101	dm^3/s CFM
Air Power:	P_{2max}	>=	510	W
Efficiency:	$η_{max}$	>=	39	%
Mass:	m	=	1,29	kg

Voltage:	230 V
Frequency:	50 Hz
Nominal Power:	1250 W

Max. power 1450W





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	6,46	1470	35785	1,1	4,0	50,3	106,9	56	3,8
40	1 1/2	6,42	1458	35852	2,6	13,7	49,0	102,1	127	8,7
30	1 1/8	6,31	1430	36132	6,9	33,2	44,5	90,7	306	21,4
23	7/8	6,08	1382	37093	13,7	59,1	36,3	73,7	498	36,1
19	3/4	5,74	1303	38346	18,8	75,1	28,6	60,8	537	41,2
16	5/8	5,44	1242	39958	22,8	91,9	22,1	46,3	504	40,6
13	1/2	5,06	1155	41836	25,6	103,2	15,4	31,4	394	34,1
10	3/8	4,77	1092	43633	27,0	109,1	9,4	18,4	253	23,2
6	1/4	4,45	1021	45800	28,2	113,4	4,1	8,5	116	11,4
0	0	4,26	975	47191	28,9	115,9	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.