463.3.201-3
Vacuum cleaner motor performance

DOMEL®

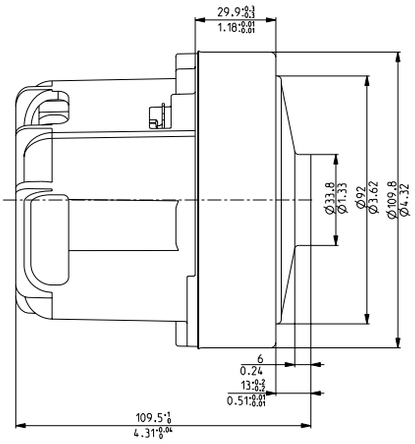
Vacuum cleaner motors with high efficiency 463.3.201-3/ 1600W/ 120V/ 60Hz are used for dry aspiration. Technical data and dimensions are given in the table. Vacuum cleaner motors consist of universal commutator motor and single fan stage. The rotor is supported with two ball bearings enabling vertical or horizontal installation of motor.
The motor is designed for insulation class 180 (H) and constructed according to EN 60335-1.

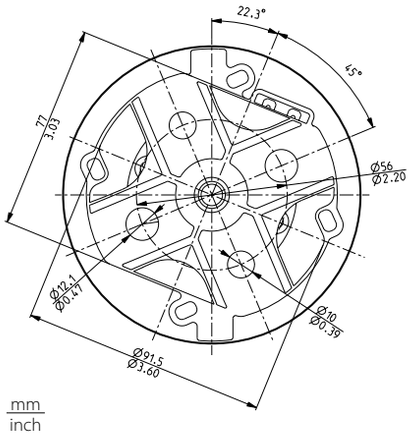
Technical data:

Input Power:	P_{1max}	>=	1500	W
Vacuum:	p_{max}	>=	34,0 136,0	kPa in H_2O
Air Flow:	Q_{max}	>=	45 96	dm^3/s CFM
Air Power:	P_{2max}	>=	553	W
Efficiency:	η_{max}	>=	41	%
Mass:	m	=	1,03	kg

Voltage:	114 V
Frequency:	60 Hz
Max Power:	1600 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	%
40	1 1/2	14,00	1564	38310	2,2	8,9	45,3	96,1	100	6,4
30	1 1/8	13,75	1536	38820	6,2	24,8	42,2	89,4	261	17,0
23	7/8	13,15	1469	40020	13,1	52,6	35,5	75,2	465	31,7
19	3/4	12,45	1391	41730	19,2	77,0	28,9	61,1	553	39,7
16	5/8	11,75	1313	43560	23,7	95,3	22,5	47,7	534	40,7
13	1/2	10,85	1217	46140	27,9	112,1	16,0	33,9	446	36,6
10	3/8	9,95	1122	49170	28,4	114,0	9,6	20,3	272	24,2
6,5	1/4	9,03	1019	52740	30,4	122,2	4,2	9,0	129	12,6
0	0	9,39	1081	52890	33,9	136,2	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.