



Fan 3680 C 400-415V 50Hz

34302013

Fan 3680 M 400-415V 50Hz

34322143

Images

34302013



34322143

Technical data

Voltage:	400 – 415	[Δ V ac] +/-10%
Phase:	3	
Frequency:	50	[Hz]
Max. current:	2,12	[A]
Current (at 50 Pa and 50Hz):	2,03	[A]
Input power (at 50 Pa and 50Hz):	1047	[W]
Shaft power (at 50 Pa and 50Hz):	806	[W]
Max. input power:	1110	[W]
Max. air volume:	22220	[m ³ /h]
Max. pressure:	122	[pa]
Max. rotations:	949	[RPM]
Poles:	6	
Cos phi:	0,76	
Controllable:	F	Frequency
Insulation class:	F	
Protection class:	IP 66	
Sound production (calculated):	70 (59)	[dB(A)]
Impeller:	789 / 5 / 40 / 22	D / n / ° / shaft diameter
Weight 34302013 (excl. pack.):	31,7 / 69,7	[Kg] / [lbs]
Weight 34322143 (excl. pack.):	27,4 / 60,4	[Kg] / [lbs]

- Air density 1,2 kg/m³, 1 Pa (Pascal) = 1N/m² ~ 0,102 mm wk. (20°C).
- Sound production is calculated at 0 Pa and at a distance of 2 meter (the value between brackets is calculated at a distance of 7 meter).
- Measurement without protection grid.
- According to AMCA 210 / ISO 5801.
- Images may differ slightly from reality.

**Conformity****CE ErP 2015****Data according to ErP directive**

Overall efficiency:	42,6 [%]
Measurement category:	C
Efficiency category:	Static
Efficiency grade (N) at optimum energy efficiency	48,7
Variable speed drive VSD:	No
Year of manufacture:	See typelabel
Commercial registration number:	Fancom B.V. 12015669 Panningen (NL)
Model number:	3680 50Hz
Input power at optimum energy efficiency point:	1110 [W]
Air volume at optimum energy efficiency point:	14070 [m ³ /h]
Pressure at optimum energy efficiency point:	122 [pa]
Rotations at optimum energy efficiency point:	938 [RPM]
Compressibility factor:	0,9909
Information on dismantling, recycling and disposal:	Observe the manual of this product
Information about environment and optimal live:	Observe the manual of this product
Description of additional items used when determining the fan energy efficiency:	No special items have been used

Ambient climate

Operating temperature range:	0°C to +40°C (32°F to +104°F)
Storage temperature range:	-10°C to +50°C (14°F to +122°F)
Relative humidity:	<95%, uncondensed

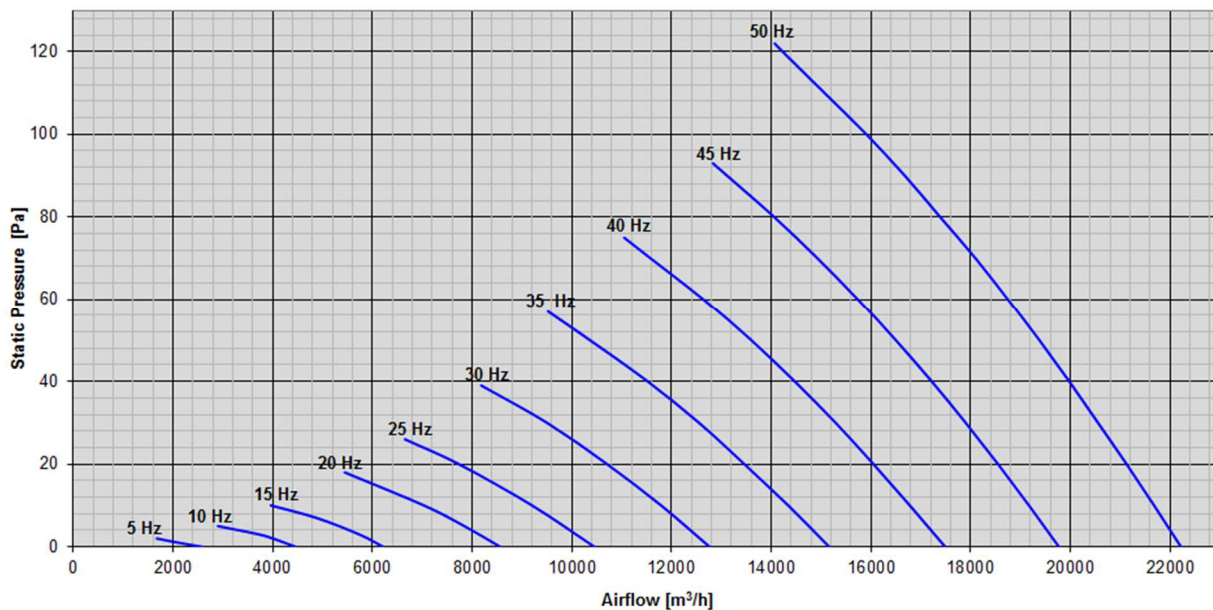


Specifications Fan 3680 50Hz

Frequentie Frequency	Druk Pressure	Debiet Airflow		Toerental Rotations	Vermogen Power	Stroom Current	Luchtsnel. Airspeed	Tot. Rendement Tot. Efficiency	Spec. Verm. Spec. Power
F	p	----- V -----	-----	RPM	P	I	v	η_{tot}	P_{spec}
[Hz]	[Pa]	[m³/h]	[m³/s]	[1/min]	[W]	[A]	[m/s]	[% at 20°C]	[W/1000m³/h]
50Hz	0	22220	6.17	949	950	1.91	12.3	58.8	42.8
	10	21680	6.02	947	976	1.94	12.0	59.3	45.0
	20	21130	5.87	945	997	1.97	11.7	59.9	47.2
	30	20555	5.71	944	1015	1.99	11.4	60.4	49.4
	40	19980	5.55	942	1033	2.01	11.0	60.8	51.7
	50	19380	5.38	941	1047	2.03	10.7	61.1	54.0
	60	18750	5.21	940	1059	2.04	10.4	61.2	56.5
	70	18100	5.03	939	1070	2.06	10.0	61.1	59.1
	80	17390	4.83	938	1079	2.07	9.6	60.7	62.0
	90	16680	4.63	937	1087	2.08	9.2	60.1	65.2
	100	15910	4.42	937	1094	2.10	8.8	59.1	68.8
	110	15070	4.19	938	1101	2.11	8.3	57.6	73.1
120	14230	3.95	938	1108	2.12	7.9	56.0	77.9	
122	14070	3.91	938	1110	2.12	7.8	55.7	78.9	
45Hz	0	19770	5.49	846	685	1.62	10.9	57.4	34.6
	10	19170	5.33	844	706	1.66	10.6	58.3	36.8
	20	18550	5.15	843	725	1.69	10.3	59.0	39.1
	30	17900	4.97	841	740	1.72	9.9	59.6	41.3
	40	17220	4.78	839	753	1.74	9.5	59.9	43.7
	50	16500	4.58	838	764	1.76	9.1	59.9	46.3
	60	15740	4.37	837	773	1.77	8.7	59.6	49.1
	70	14930	4.15	836	780	1.78	8.3	58.9	52.2
	80	14060	3.91	836	786	1.79	7.8	57.7	55.9
	90	13114	3.64	835	790	1.80	7.2	56.0	60.2
	93	12830	3.56	835	791	1.80	7.1	55.5	61.7
	40Hz	0	17490	4.86	750	487	1.40	9.7	55.9
10		16780	4.66	747	506	1.44	9.3	56.7	30.2
20		16050	4.46	745	521	1.48	8.9	57.5	32.5
30		15290	4.25	743	533	1.50	8.4	58.0	34.9
40		14470	4.02	742	543	1.52	8.0	58.0	37.5
50		13600	3.78	740	550	1.54	7.5	57.6	40.4
60		12640	3.51	740	555	1.55	7.0	56.5	43.9
70		11580	3.22	739	559	1.56	6.4	54.4	48.3
75		11050	3.07	739	561	1.56	6.1	53.3	50.8
35Hz		0	15160	4.21	652	333	1.21	8.4	53.3
	10	14340	3.98	649	350	1.25	7.9	54.3	24.4
	20	13460	3.74	646	361	1.28	7.4	55.1	26.8
	30	12550	3.49	644	370	1.31	6.9	55.5	29.5
	40	11520	3.20	643	375	1.33	6.4	54.9	32.6
	50	10360	2.88	642	379	1.34	5.7	52.9	36.6
	57	9520	2.64	642	381	1.35	5.3	51.1	40.0
30Hz	0	12760	3.54	551	213	1.02	7.1	49.6	16.7
	10	11790	3.28	546	226	1.07	6.5	51.4	19.2
	20	10705	2.97	544	234	1.11	5.9	52.1	21.9
	30	9500	2.64	541	239	1.13	5.2	51.4	25.2
	39	8180	2.27	541	241	1.13	4.5	48.3	29.5
25Hz	0	10450	2.90	450	126	0.84	5.8	46.1	12.1
	10	9200	2.56	444	137	0.89	5.1	47.6	14.9
	20	7730	2.15	441	141	0.92	4.3	47.1	18.2
	26	6650	1.85	441	141	0.92	3.7	44.7	21.2
20Hz	0	8560	2.38	368	75	0.64	4.7	42.6	8.8
	5	7840	2.18	365	80	0.67	4.3	44.3	10.2
	10	7030	1.95	363	82	0.69	3.9	45.4	11.7
	18	5440	1.51	362	84	0.70	3.0	42.1	15.4
15Hz	0	6210	1.73	277	34	0.47	3.4	35.9	5.5
	3	5730	1.59	275	36	0.49	3.2	39.9	6.3
	7	4870	1.35	272	38	0.50	2.7	40.4	7.8
	10	3960	1.10	271	39	0.51	2.2	36.3	9.8
10Hz	0	4450	1.24	190	18	0.40	2.5	24.9	4.0
	2	4000	1.11	189	19	0.41	2.2	28.8	4.8
	3	3720	1.03	189	20	0.41	2.1	28.6	5.4
	5	2900	0.81	187	20	0.41	1.6	26.3	6.9
5Hz	0	2580	0.72	96	15	0.50	1.4	5.8	5.8
	1	2100	0.58	96	15	0.50	1.2	7.0	7.1
	2	1670	0.46	96	15	0.50	0.9	7.8	9.0



Fan characteristic



Specific power

