AERODYNAMIC TEST

Object of inspection :

Fan Type :	R09x-3330Hx-ES25x-01A06
Motor specification :	1~230V 50/60Hz 140W 1,2A 1550RPM Overload Elect. Prot. IP54 INS.CL.F
Fan manufacturer :	HRF
Aplication specification :	Measured in full bell mouth without guard grill

Performed by :

Rotomatika Fans , Spodnja Kanomlja 23 , 5281 Spodnja Idrija - SLOVENIJA Performer : Jure Novak

Test rig, type of inlet nozzle, type of instalation :

Dps=1600Pa , Q=5m3/s , P=10kW Quadrant inlet nozzle: 0,200 Type of installation: A

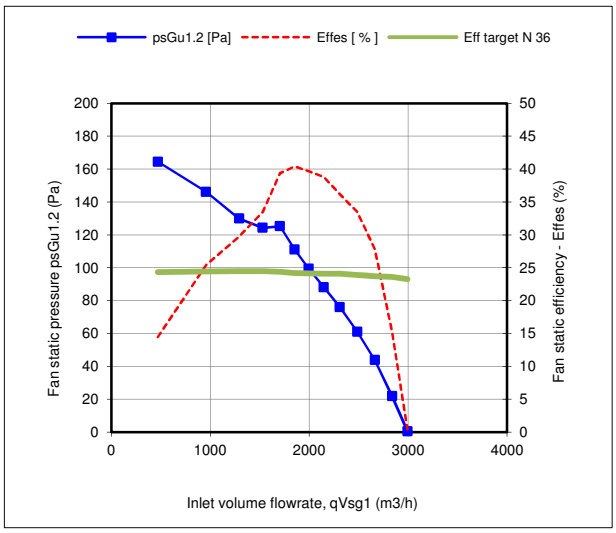
Reference source :

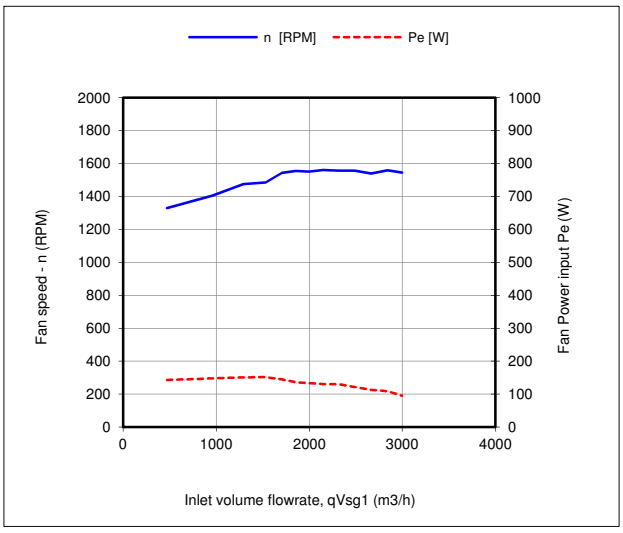
Test conditions :

Date of testing :	10.9.2013	
Testing Voltage / Frequency :	230V/50Hz	
Testing Capacitor / Connection :	Uk=10V	
Direction of rotation :	CW from cable side	
According to standards :	ISO 5801 - 1997	
Ambient temperature :	22,1	°C
Ambient humidity :	0,33	/
Barometric pressure :	98300	Pa
Ambient air density :	1,156147	kg/m^3

Aerodynamic test :

q_{Vsg1}	$p_{sGu1.2}$	$p_{FGu1.2}$	p_5	p_3	n	Eff_{es}	U	f	I_{sum}	P_e	time
[m^3/h]	[Pa]	[Pa]	[Pa]	[Pa]	[RPM]	[%]	[V]	[Hz]	[A]	[W]	[hh:mm]
471	164,5	165,9	10,4	158,5	1330	14,45	230,36	49,985	1,095	143,4	8:14:00
959	146,1	151,9	42,6	140,8	1406	25,42	230,07	49,989	1,126	147,5	8:10:24
1294	129,9	140,5	77,3	125,2	1475	29,73	230,5	50	1,151	151,3	8:06:53
1531	124,3	139,1	108,2	119,8	1486	33,50	230,85	50,021	1,154	152,1	8:02:59
1706	125,2	143,6	134,1	120,7	1544	39,38	229,35	49,972	1,093	145,2	7:58:12
1854	111,0	132,8	158,4	107,0	1556	40,38	229,17	49,96	1,028	136,4	7:54:54
1996	99,3	124,5	183,6	95,7	1551	39,67	233,18	49,969	0,996	133,8	7:51:35
2149	88,1	117,3	212,7	84,9	1562	38,78	230,37	49,963	0,976	130,7	7:48:13
2311	76,0	109,8	245,8	73,2	1558	36,15	229,37	49,971	0,989	130,1	7:44:52
2487	61,1	100,3	284,6	58,9	1558	33,51	229,42	49,962	0,917	121,4	7:41:36
2666	43,9	88,9	327,0	42,3	1540	27,83	229,56	49,971	0,858	112,6	7:38:23
2841	21,9	73,0	371,4	21,1	1560	15,22	229,63	49,974	0,832	109,5	7:35:07
2996	0,6	57,3	413,0	0,5	1546	0,46	229,92	49,987	0,726	95,9	7:31:46





Remarks :

ErP2015 compliant