D322 / E35-4 (9-9)

Double Inlet Centrifugal Fan

1600 CFM **220V 1N~ 50 Hz**

Diagram is based on standard air ρ=1.2 kg/m³. ***Pd*** is system curve for dynamical pressure part related to Fan Outlet Area (Curve for free blowing fan). *Total Pressure* (the sum of the dynamic and static pressures) is shown in relation to the *Air Volume*, Dynamic pressure is shown below system line Pd and Static Pressure is shown above that line.

- Voltage Range 100 ~ 220 [V]
- Frequency 50 [Hz]
- Current *max @ free air* 2.8 [A]
- Power *max @ free air* 550 [W]
- Fan speed *@ free air* 1050 [rpm]
- Insulation Class H
- Protection Class IP65
- Power Factor (cos φ) 0.90
- Capacitor 20 [μF] 400 [V]
- Net Weight 15.5 [kg]
- Starting Torque 1.5 [nm]
- Starting Current *max* 4 [A]
- Air Temperature *max* 60 [ºC]

Voltage [V]	Air Volume [m³/h] @ ρ=1.2 kg/m³						
	Free Air	Total Pressure ΔPt [Pa]					
		50	*100*	*150*	*200*	*250*	*300*
100	1025	970	850	625	340		
170	2025		1965	1780	1550	1155	590
220	2795			2670	2400	1968	1360

Wheel Diameter = 230 mm = 9 in
35 Blades , 20 mm = 4/5 " Chord Width
Tip Speed = rpm * 0.012 [m/s]
= rpm * 2.37 [FPM]
Outlet Area = 0.057 [m²] = 0.61 [SQ.FT.]

Voltage [V]	Sound Pressure Level in dB(A)		
	100	*170*	*220*
Inlet	46	60	64
Outlet	48	61	66