DV6248/2TDP-807 DC Diagonal Fan

DC-Fan with PWM-dependent speed control. The DC drive employs an electronically commutated 3-phase external rotor motor with high efficiency. A highly integrated, specially programmed microcontroller implements motor commutation and speed control of the fan.
All functions are completely integrated into the hub.



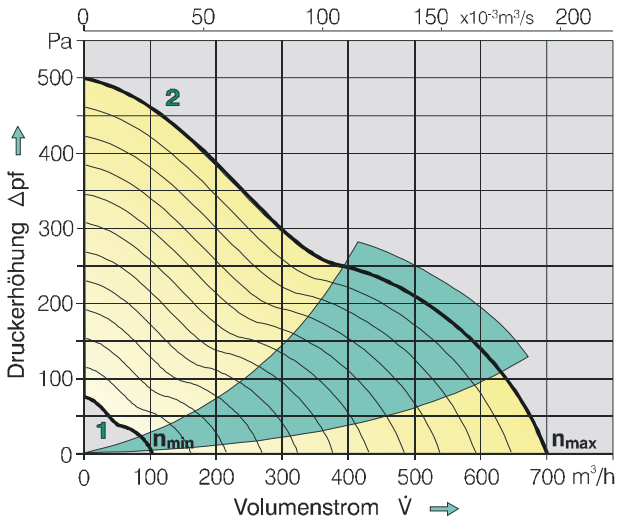
Features

- Extremely wide voltage range. Max. speed may be chosen by variation of operating voltage range 40 to 55 VDC.
- Very low speed-fluctuations in the entire voltage range.
- Speed control by PWM input signal (f= 2 kHz +/- 20%, amplitude 5V)
- The fan is protected against reversed polarity.
- Electronic motor current limiting during start-up or blocking. Continuous blocking protection.

General Data

Nominal voltage	V DC	48
Voltage range	V DC	40 ... 57
Nominal speed	min^{-1}	5500
Max. flow rate	m^3/h	700
Max. flow rate	CFM	412
Noise free air	dB(A)	69
Noise in operating range	bels	7,8
Current consumption	mA	1800
Power consumption	W	86,4
Perm.ambient temperature	°C	-20 ... +60
Service life (40 °C)	h	65.000
Safety approvals		UL, CSA, VDE
Fan housing / impeller		Aluminum alloy / PA6.6
Bearing system		Ball bearings
Mass	kg	0,820

All data are average figures at nominal votage — Subject to technical change.



For dimensions and electrical connection please see separate drawing 9295414517.

PWM input signal:

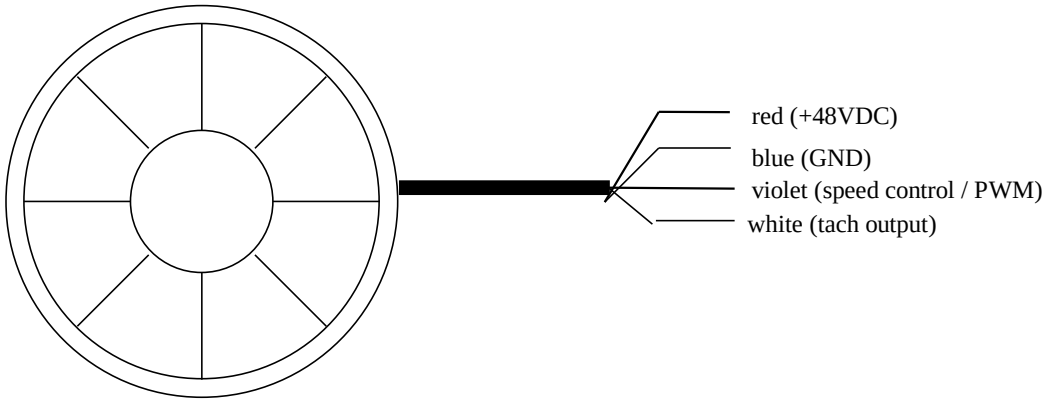
PWM frquency: f = 2kHz +/-20%

Amplitude: U = 5V

Speed - PWM

PWM [%] (f=2kHz)	Speed [rpm]
100	5500
50	2900
0	0

Connection diagram :



Lead (leadlength 365mm)	Description
Red	+48 V DC
Blue	GND 0 V
Violet	Speed control / PWM
Brown	Signal GND