PAPST

- 369
6448/2HHT - 370 DC Axial Fan

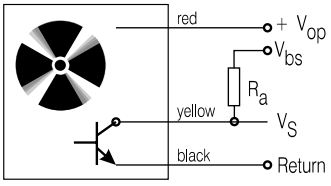


Axial fan with DC drive. The DC drive employs an electronically commutated external rotor motor with high efficiency. With integrated tacho output for speed monitoring. Drive electronics is completely integrated into the fan hub. The air flow and noise level can be controlled by varying the PWM input signal in the admissible range.

Features

- Electronic motor current limiting during start-up or blocking. Continuous blocking protection. Electronically safeguarded against incorrect polarity.
- Low noise level through aerodynamically optimized matching of the fan housing and impeller.

Tacho-Signal



Output	2 pulses/revolution
V_S high at I_{source} = 0 mA	24 V
V_S low at I_{sink} = 2 mA	≤ 0.4 V
V_{bs}	24 VDC
I_{sink}	≤ 20 mA

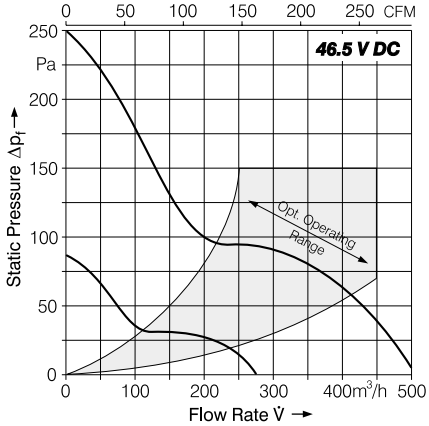
$$R_a = \frac{V_{bs} - V_S\,Low}{I_{sink}}$$

Patents granted or applied for.

General Data

Nominal voltage	V DC			46.5
Voltage range	V DC			46.5 ... 49.5
Speed control input	(PWM 2.2 kHz)	50% PWM	/	0% PWM
Nominal Speed	min^{-1}	2300	/	4200
Max. flow rate	m^3/h	274	/	504
Max. flow rate	CFM	161	/	296
Noise free air	dB(A)	45	/	62
Noise in opt. operating range	bels	5.4	/	7.0
Current consumption (at 46.5VDC)	mA	305	/	680
Power consumption (at 46.5VDC)	W	14	/	32
Perm. amb. temperature at $V_{max.}$	°C			-10 ... +55
Service life at 55 °C	h			45 000
Service life at 40 °C	h			65 000
Approval				CSA, UL, VDE
Fan housing / impeller				metal / PA 6.6
Bearing system				Ball bearings
Mass	kg			0.76

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



For dimensions and electrical connection see separate page.

!! Pmax. = 43 W ⇒ max 190 Pa at 49.5 VDC !!