6448/2HP-xxx DC Axial Fan

SK6006015807

Preliminary Data !!!



Axial fan with DC drive. This DC drive employs an electronically commutated external rotor motor with high efficiency. With integrated open collector tacho output for speed monitoring and PWM speed control input. Drive electronics is completely integrated into the fan hub.

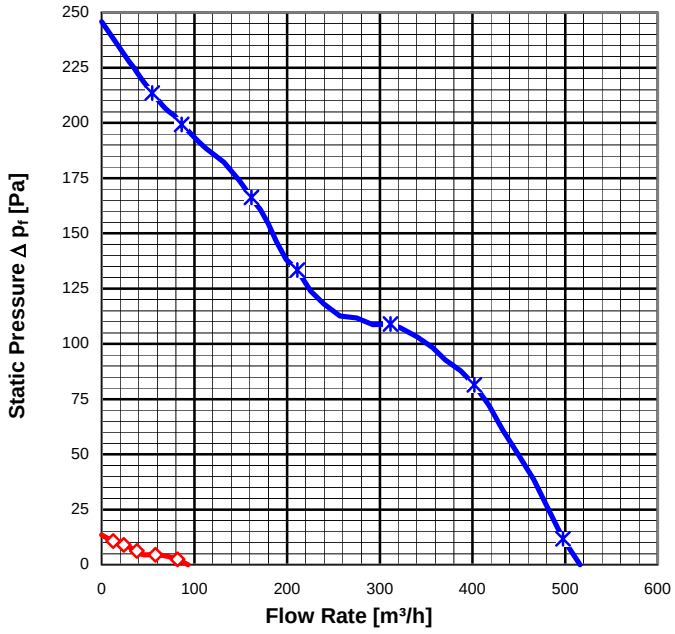
Features

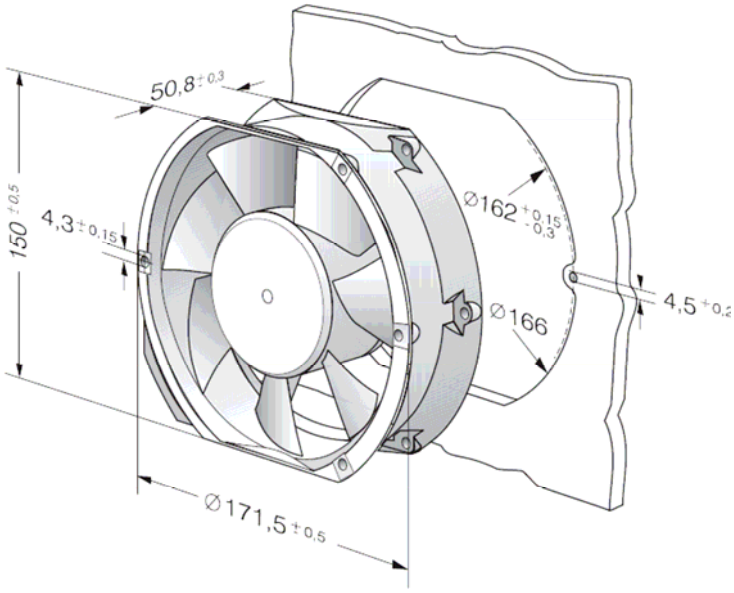
- Low noise level through aerodynamically optimised housing and impeller.
- Electronic motor current limiting during start-op or locking. Continuous locking protection
- Electronically safeguarded against incorrect polarity.
- Extremely low EMI.
- Electrical connection via 4 leadwires AWG22, 600mm long.

Technical Data

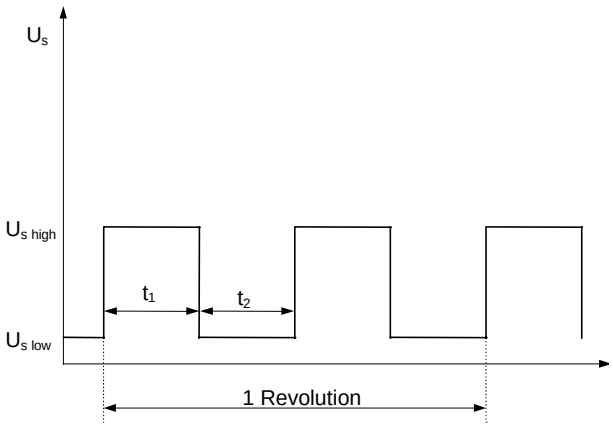
Nominal Voltage	V DC	48
Voltage Range	V DC	36 ... 72
Nominal Speed	rpm	4500
Max. flow rate	m^3/h	520
Max. flow rate	CFM	306
Noise free air	dB(A)	64
Current consumption	mA	670
Power consumption	W	32
Perm. Ambient temperature at max. voltage.	°C	-20 ... +tbd
Service life ($T_{Max)}$	h	tbd
Service life (40 °C)	h	tbd
Approvals		CSA, UL, VDE, CCC
Fan housing / impeller		Metal / PA 6.6
Bearing system		Ball bearings
Mass	kg	0,760

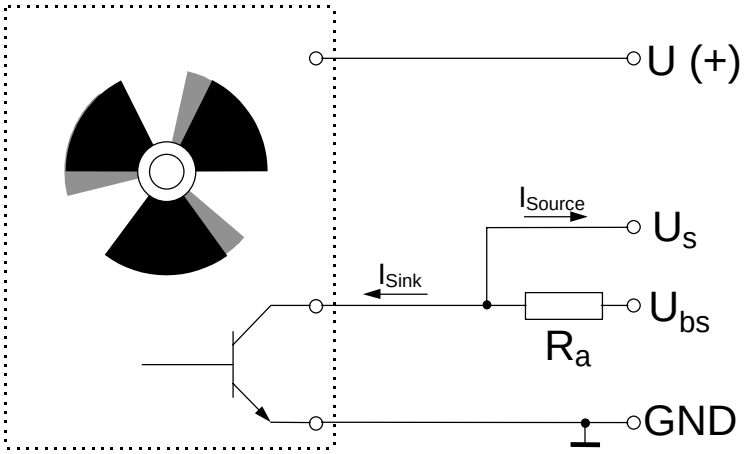
All data are mean values at nominal voltage. Subject to technical change.





Tacho Output Signal "/2"





U (+) Supply Voltage
U_S Speed Signal
U_{bs} Sensor Supply Voltage
GND Ground (-)
Ra External Pull-Up Resistor

$$R_a = \frac{U_{bs} - U_{slow}}{I_{sink}}$$

Output	2 pulses per revolution
U_{bs}	5...55 V DC
$U_{s\ high}$	5...55 V DC at I_{source} = 0 mA
$U_{s\ low}$	<= 0,4V DC at I_{sink} = 2 mA
$I_{sink\ max}$	<= 20 mA
t_1 / t_2	0,8 - 1,2

f = 2*n/60Hz

PWM Speed Control Input

