4214/2HPU-80183 DC Axial Fan



Axial fan for DC operation driven by an electronically commutated external rotor motor with tacho output and speed control input. Drive electronics completely integrated into the fan hub.

Features

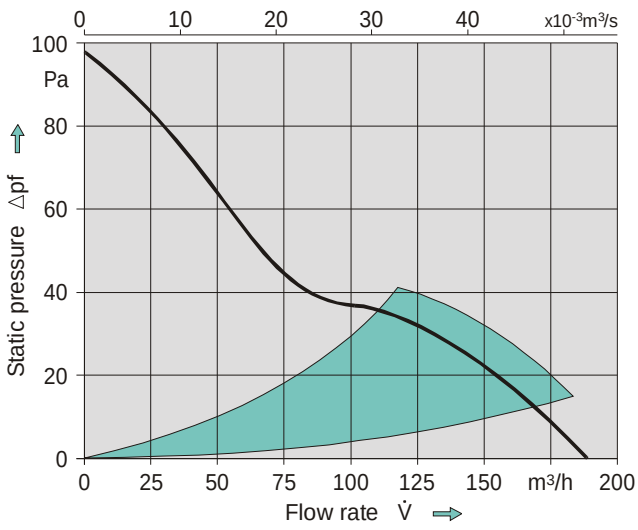
- Electronical protection against overload, reverse polarity and blocking.
- Fully encapsulated stator, winding, and PCB (IP54 protection class).
- Electrical connection via 4 leads AWG 22, 150mm long.
- Tacho output signal „/2“.
- Speed control input (speed control by PWM voltage).
- Max. permanent ambient temperature of +70°C at supply voltages of 18 ... 24 VDC.
- Extremely low EMI.

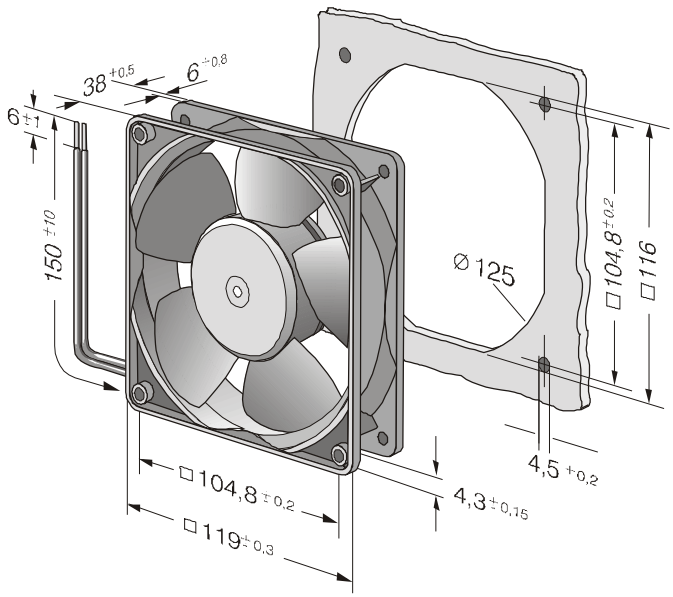
Patents granted or applied for.

General Data

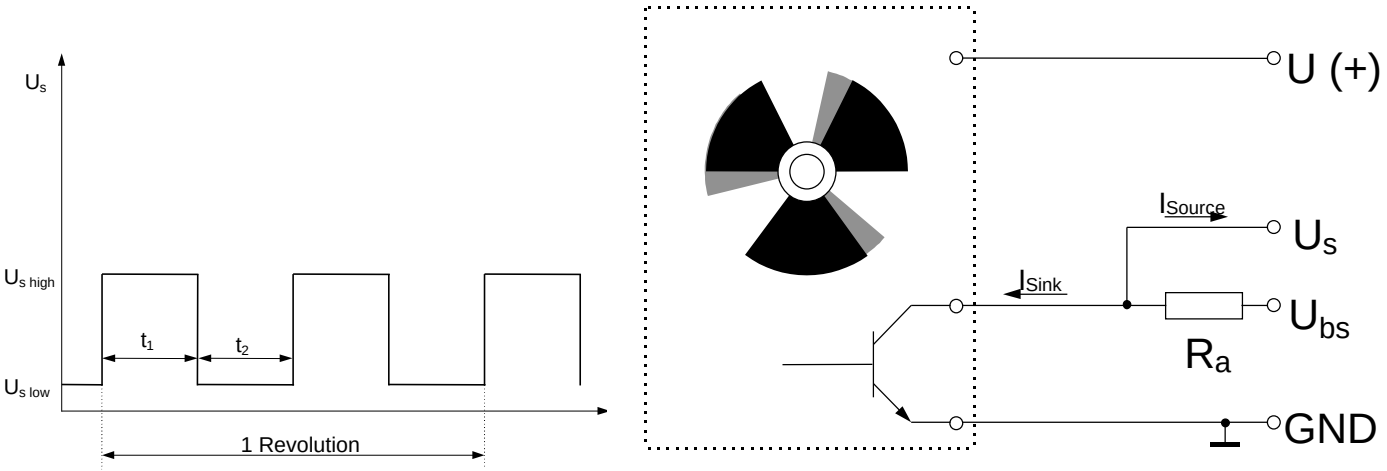
Nominal Voltage	V DC	24
Voltage range	V DC	18 26,4
PWM speed control	%	<=7 .... >=95
Nominal speed	rpm	1000 3400
Max. flow rate	m^3/h	184
Max. flow rate	CFM	108.3
Noise free air	dB(A)	49
Noise in opt. Operating range	bels	5.9
Current consumption	mA	190
Power consumption	W	4.6
Permanent ambient temperature at max. voltage	°C	-20 ... +65
Service life (65 °C)	h	32.500
Service life (40 °C)	h	60.000
Fan housing / impeller		PBTP / PA
Bearing system		Ball bearings
Mass	kg	0.290

Alle Daten sind Mittelwerte bei Nennspannung. Technische Änderungen vorbehalten.





Tacho Output Signal



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

Output	2 pulses per revolution
U_{bs}	4...30 V DC
$U_{s\ high}$	4...30 V DC at I_{source} = 0 mA
$U_{s\ low}$	<= 0,4 V DC at I_{sink} = 2 mA
$I_{sink\ max}$	= 4 mA
t_1 / t_2	0,8 - 1,2

Speed Control Input Data

