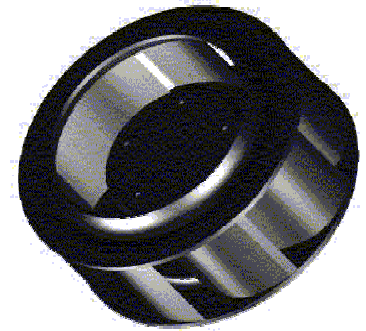


RER101-36/12N/2HHP-186

DC Radial blower

Particularly flat, pressure resistant fan developed especially for installation in equipment of compact dimensions. The DC drive employs an electronically commutated external rotor motor. Motor electronics is completely integrated into the fan hub. With additional sensor lead for speed monitoring



Features

- The fan is protected against reverse polarity.
- Electronic locking protection is integrated into the fan circuit.
- Air exhaust radial. Rotational direction CW looking at rotor.
- Low EMI.
- OC tachometer output.
- PWM speed control input.

Patents granted or applied for.

Electrical connection:

via 4 leads AWG22, TR64.
Stripped and tinned ends

- Red 12 V
- Blue 0 V
- White OC Tacho output
- Violet PWM control input

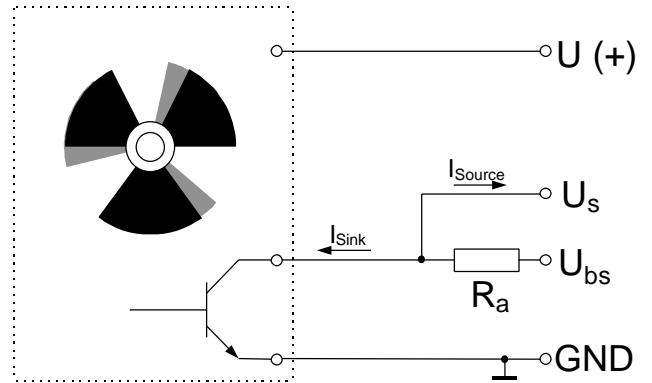
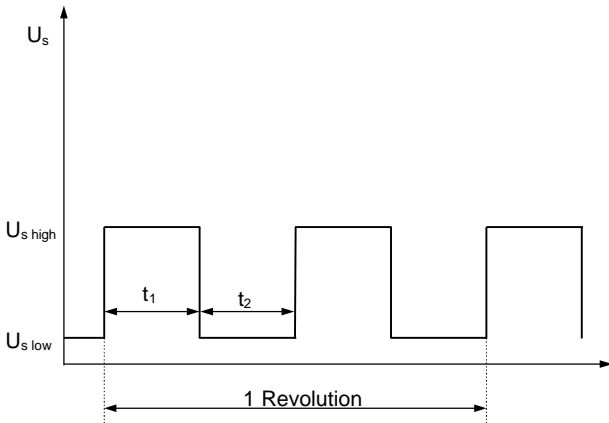
General Data

Nominal voltage	V DC	12,0
Voltage range	V DC	9 .. 13.6
Nominal speed	min ⁻¹	6000
PWM Speed control, 10 ...20 kHz	rpm	
0...1V – low		
9...10V - high		
Speed tolerance		+/-10%
0% PWM		6000
10% PWM		6000
50% PWM		3550
90% PWM		1000 jump to 0
100% PWM		0
Max. flow rate	m ³ /h	190
Max. flow rate	CFM	112
Noise in opt. Operating range	bels	7.4
Nominal current consumption	mA	1710
Nominal power consumption	W	20.5
Perm. Ambient temperature at max. voltage	°C	-20 ... +70
Blower wheel		Fiberglass reinforced plastic
Mounting flange		Fiberglass reinforced plastic
Bearing system		Ball bearings
Approvals		CSA, UL, VDE
Mass	grams	approx. 305

All data are average values at nominal voltage

Subject to technical change.

Tacho Signal

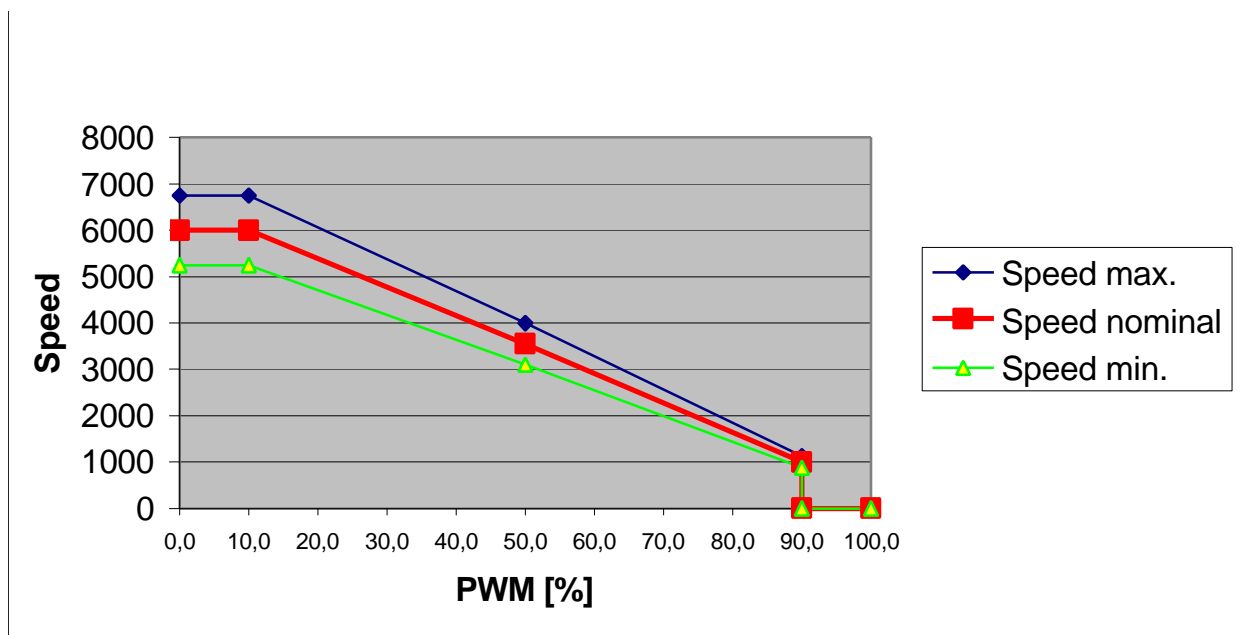


U (+) Supply Voltage
 U_s Speed Signal
 U_{bs} Sensor Supply Voltage
 GND Ground (-)
 R_a External Pull-Up Resistor

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

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} = 10 mA
I _{sink max}	= 20 mA
t ₁ / t ₂	0,8 - 1,2

PWM vs speed graph



Air performance graph: at min., nominal and max. voltage

