

REF100-11/12/2 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. The motor electronics is integrated into the fan hub completely. The Air flow and noise level can be controlled by varying the supply voltage range.



Features

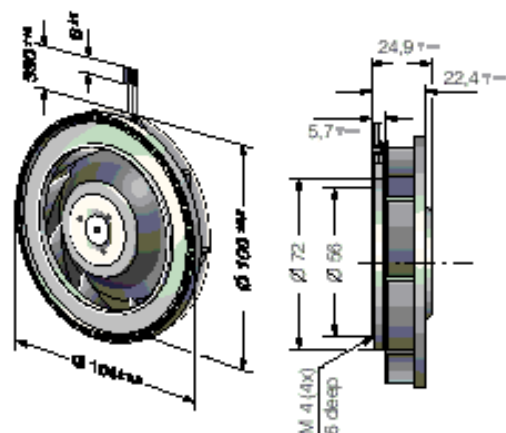
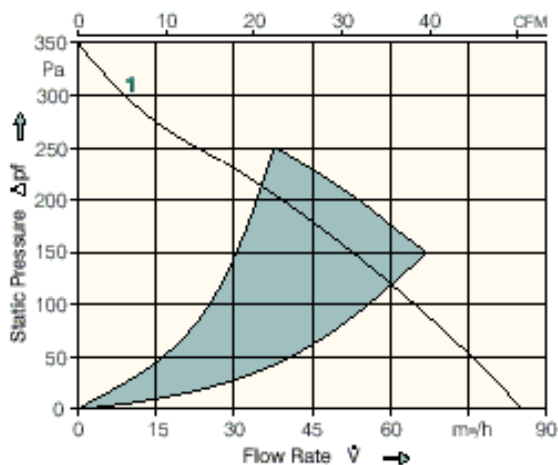
- The fan is protected against reverse polarity.
- Electronic locking protection is integrated into the fan circuit. Automatic restart of fan after removal of lockage.
- Maximum speed may be chosen by variation of operating voltage range.
- Electrical connection via 3 leadwires AWG22, 330mm long.
- Two pulses per revolution tachometer output signal (open collector style).
- Extremely low EMI.

General Data

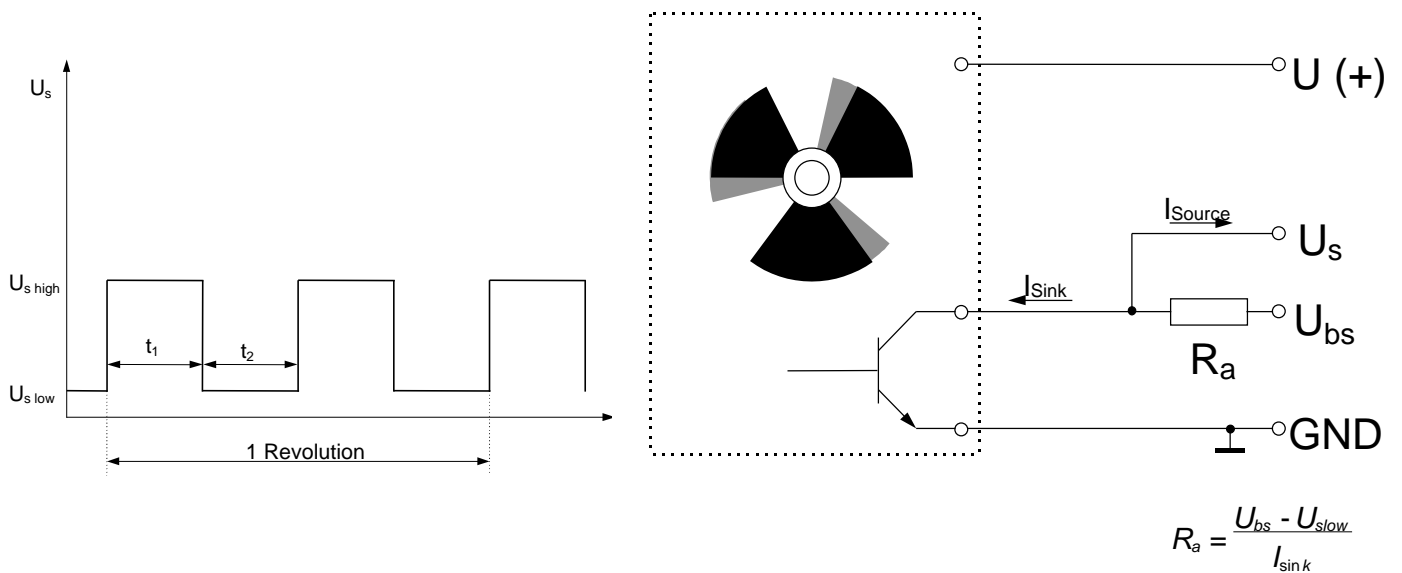
Nominal voltage	V DC	12
Voltage range	V DC	8 - 15
Nominal speed	min ⁻¹	5400
Max. flow rate	m ³ /h	86
Max. flow rate	CFM	50.6
Noise in opt. operating range	bels	6.3
Current consumption	mA	580
Power consumption	W	7.0
Perm. ambient temperature	°C	-20 ... +75
At max. Voltage		
Service life at 75 °C	h	30,000
Service life at 40 °C	h	80,000
Approvals		CSA, UL, VDE
Spiral housing / impeller		Fiberglass reinforced plastic
Bearing system		Ball bearings
Mass	kg	0.16

All data are mean values at nominal voltage.

Subject to technical change.



Sensor Signal /2



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