

4112 N/2H3 DC Axial Fan

08. Feb 2006

High performance DC Axial fan with electronically commutated external rotor motor. The Electronic commutation is completely integrated into the motor hub.



Features

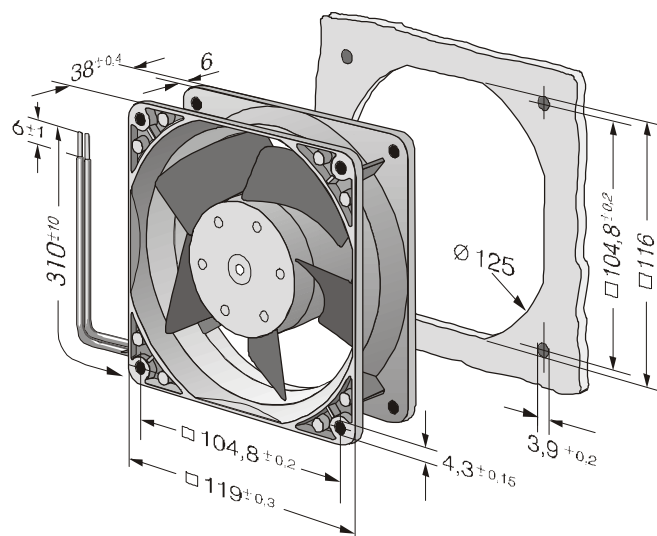
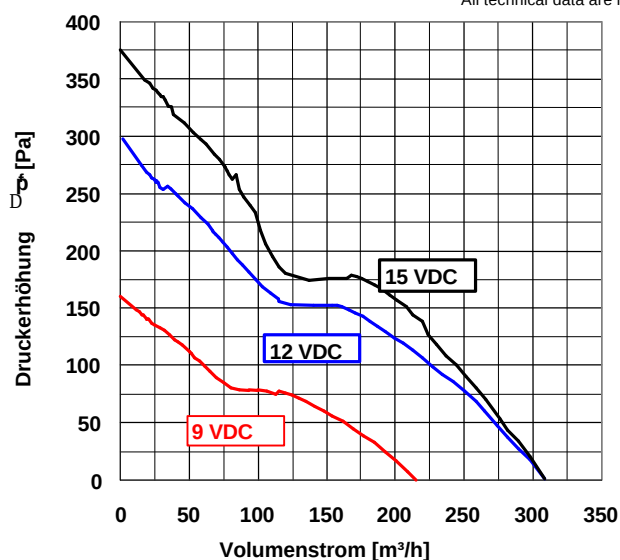
- Electronically protected against reverse polarity, overloading, and locking.
- Air intake over struts.
- Metal fan housing. Impeller of fibre-glass reinforced plastic PA
- Open collector Tacho Signal
- Electrical connection via 3 leads AWG 22 TR 64, 310mm long
Red = +12 VDC
Blue = GND
White = Tacho

General Data

Nominal voltage	V DC	12
Voltage range	V DC	9 - 15
Nominal speed	min ⁻¹	6000
Max. flow rate	m ³ /h	310
Max. flow rate	CFM	182,4
Max. pressure	Pa	300
Noise free air	dB(A)	65
Current consumption	mA	1800
Power consumption	W	21,6
Start-up current	mA	tbd
Permanent ambient temperature at max. voltage	°C	-20 ... +65
Service life L ₁₀ (40 °C)	h	65.000
Service life L ₁₀ (65 °C)	h	37.500
Fan housing / impeller	Metal / PA 6.6	
Bearing system	Ball bearings	
Approvals	CSA; UL; VDE applied for	
Mass	g	390

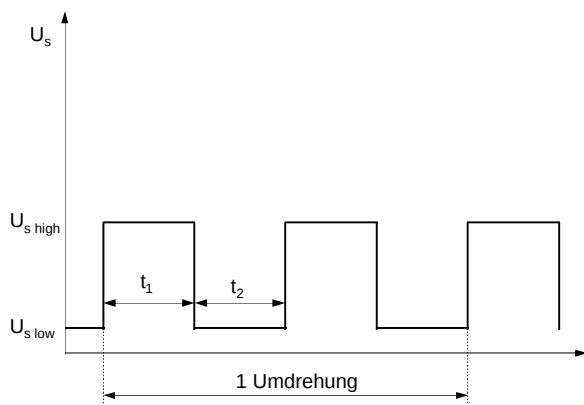
All technical data are mean values at nominal conditions.

Preliminary data – subject to change

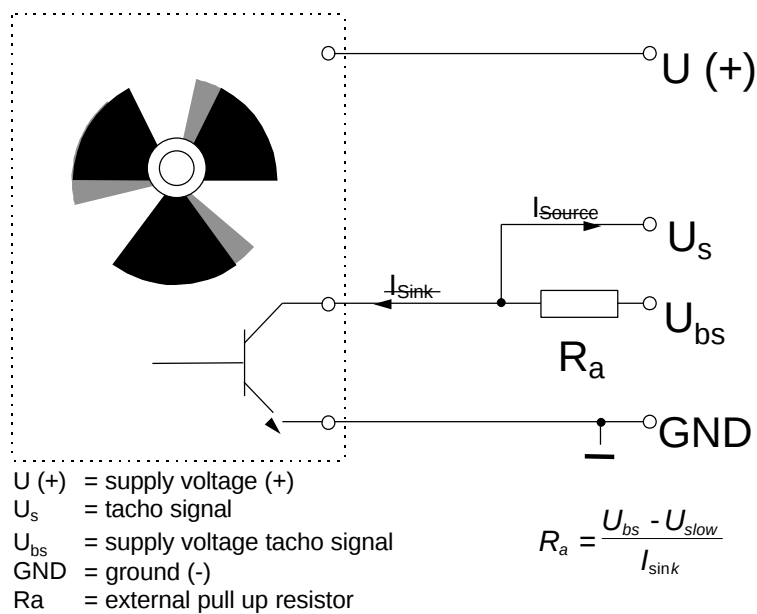


Tacho Signal /2

Output signal:



Connection Scheme:



Technical data:

Signal	2 pulse per revolution
U_{bs}	5...30 V DC
$U_{s\text{ high}}$	5...30 V DC @ $I_{\text{source}} = 0\text{ mA}$
$U_{s\text{ low}}$	= 0,4 V DC @ $I_{\text{sink}} = 2\text{ mA}$
$I_{\text{sink max}}$	= 4 mA
t_1 / t_2	0,8 - 1,2