4112 N/2H3 DC Axial Fan



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

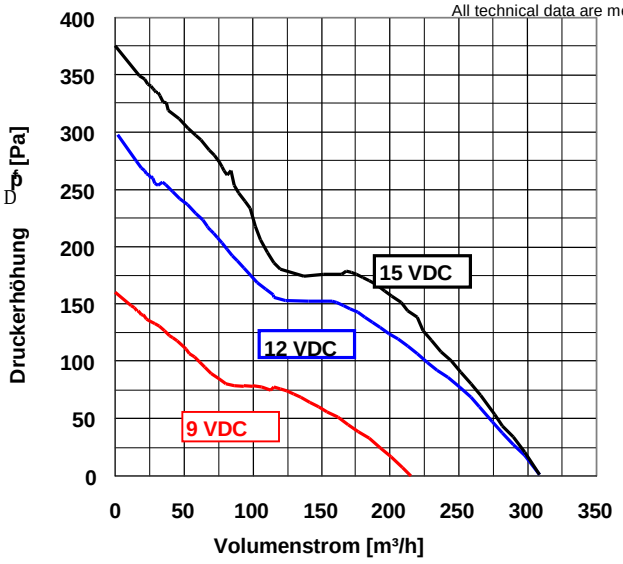
Features

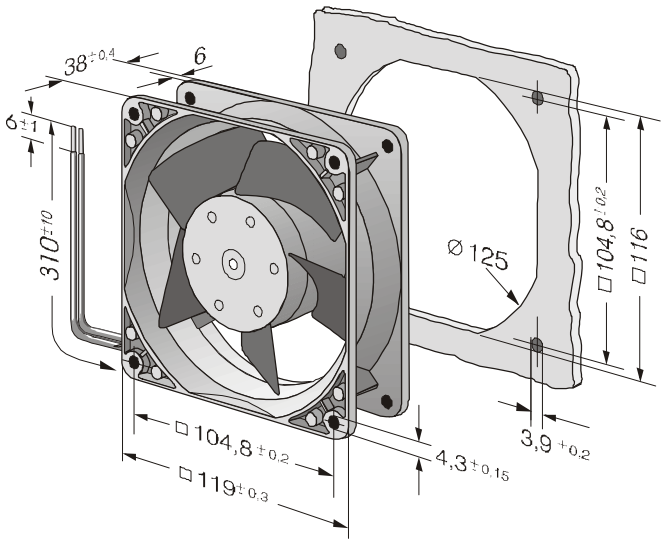
- Electronically protected against reverse polarity, overloading, and locking.
- Air intake over struts.
- Metal fan housing.
  Impeller of fibre-glass reinforced plastic PA
- Open collector Tacho Signal
- Electrical connection via 3 leads
  AWG 22 TR 64, 310mm long
  Red = +12 VDC
  Blue = GND
  White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

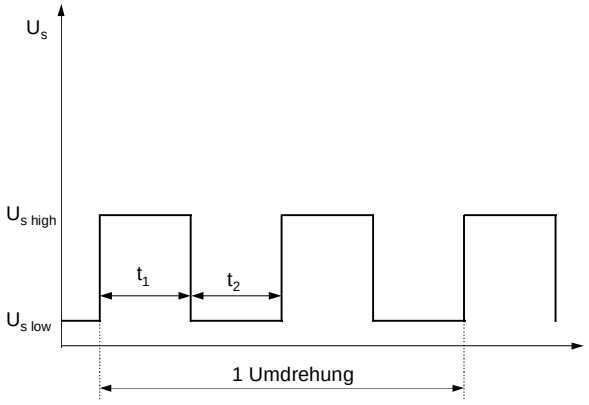
All technical data are mean values at nominal conditions. subject to change



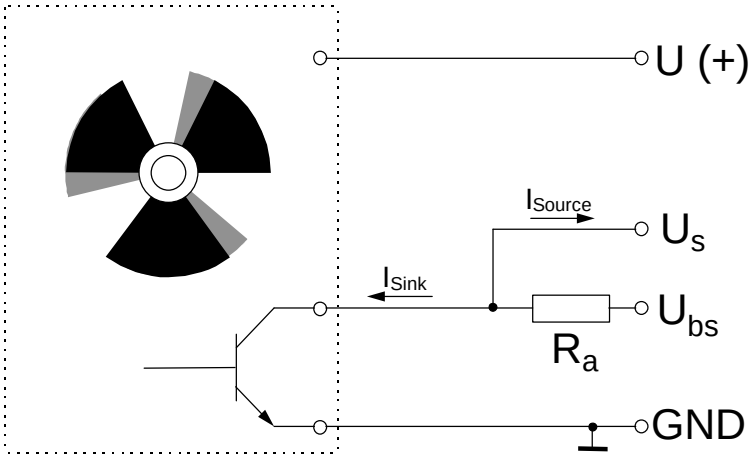


Tacho Signal /2

Output signal:



Connection Scheme:



U (+) = supply voltage (+)
U_s = tacho signal
U_{bs} = supply voltage tacho signal
GND = ground (-)
Ra = external pull up resistor

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

Technical data:

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