

max. 440 m³/h

DC axial fans

Series 4100 N High Performance 119 x 119 x 38 mm



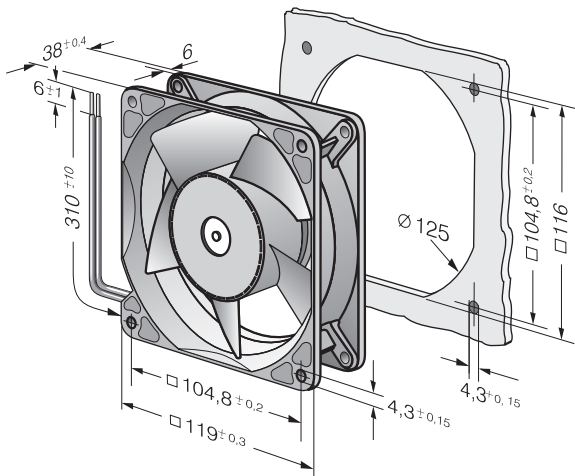
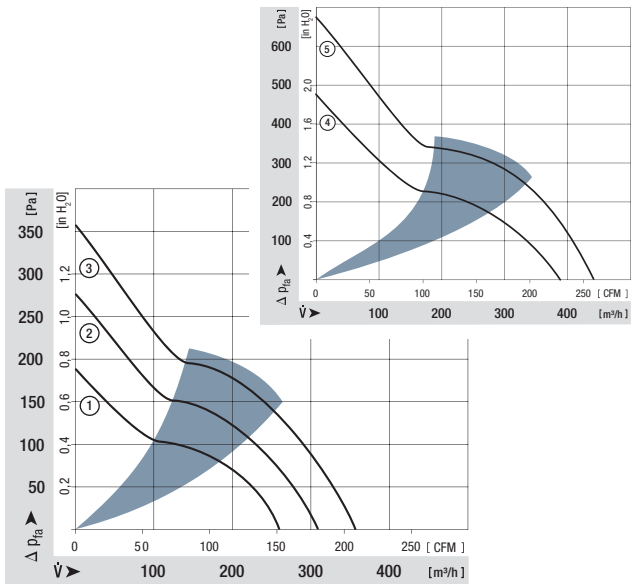
Highlights:

- Very rigid compression curve for high air flow at high back pressure.
- Low operating noise level at high back pressure.
- Optional Vario-Pro: Highly adaptable software configuration of the fan enables a tailor-made solution to the specific requirements of your applications.

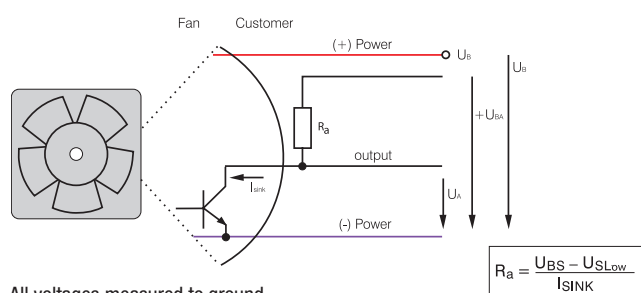
General characteristics:

- Material: aluminium housing, fibreglass-reinforced PA impeller; housing with grounding lug for screw M4 x 8 (Torx).
- Fully integrated electronic commutation.
- Protected against reverse polarity and locking.
- Connection via single strands AWG 22, UL1007, TR 64, bared and tin-plated
- Air intake over struts. Direction of rotation clockwise, seen on rotor.
- Mass: 390 g.

Nominal data		Air flow	Air flow	Nominal voltage	Voltage range	Sound pressure level	Sound power level	Sinter sleeve bearings Ball bearings	Power input	Nominal speed	Temperature range	Service life L ₁₀ (40 °C) ebm-papst Standard	Service life L ₁₀ (T _{max}) ebm-papst Standard	Life expectancy L ₁₀ Δ (40 °C) see p. 15	Curve	Specials
Type		m ³ /h	CFM	VDC	VDC	dB(A)	Bel(A)	■ / ■	Watts	RPM	°C	Hours	Hours		P. 110	
4112 NHH		260	152,9	12	9...15	60	6,8	■	13,3	5 000	-20...+65	70 000 / 55 000	147 500	1		
4112 NH3		310	182,4	12	9...15	65	7,2	■	21,6	6 000	-20...+65	65 000 / 37 500	132 500	2	/2	
4112 NH4		355	208,9	12	9...14	67	7,4	■	32,0	6 800	-20...+65	62 500 / 35 000	125 000	3	/2	
4114 NHH		260	152,9	24	16...30	60	6,8	■	12,4	5 000	-20...+65	70 000 / 52 500	147 500	1	/2	
4114 NH3		310	182,4	24	16...30	65	7,2	■	19,5	6 000	-20...+65	65 000 / 37 500	132 500	2	/2	
4114 NH4		355	208,9	24	16...30	67	7,4	■	30,0	6 800	-20...+65	62 500 / 35 000	125 000	3	/2	
4114 NH5		390	229,5	24	16...30	70	7,6	■	45,0	7 500	-20...+65	62 500 / 35 000	125 000	4	/2	
4114 NH6		440	259,0	24	16...30	73	8,1	■	65,0	8 400	-20...+65	60 000 / 32 500	120 000	5	/2	
4118 NHH		260	152,9	48	36...60	60	6,8	■	12,0	5 000	-20...+65	70 000 / 52 500	147 500	1	/2	
4118 NH3		310	182,4	48	36...60	65	7,2	■	20,0	6 000	-20...+65	65 000 / 37 500	132 500	2	/2	
4118 NH4		355	208,9	48	36...60	67	7,4	■	28,0	6 800	-20...+65	62 500 / 35 000	125 000	3	/2	
4118 NH5		390	229,5	48	36...60	70	7,6	■	45,0	7 500	-20...+65	62 500 / 35 000	125 000	4	/2	
4118 NH6		440	259,0	48	36...60	73	8,1	■	62,0	8 400	-20...+65	60 000 / 32 500	120 000	5	/2	

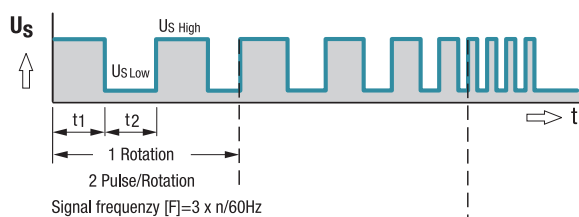


- Speed-proportional, square-wave signal for external monitoring of the fan motor speed
- 2, 3, or 6 pulses per revolution
- Open-collector signal output
- Extremely wide operating voltage range
- Easy adaptation to user interface
- Connection via separate cable
- The sensor signal also serves as a major comparison variable for setting and maintaining the setpoint speed for interactive or controlled cooling with one or more interconnected fans.

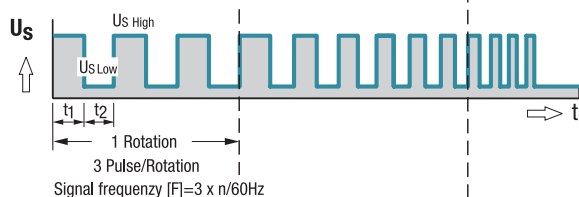


All voltages measured to ground.
External load resistor R_a / U_S / U_{BS} required.

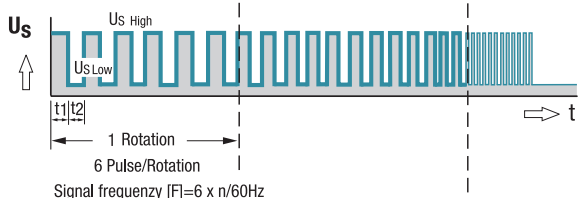
Standard signal for all models (exceptions see below)



For multi options control input and 4100 NH7 and NH8



All TD Fans e.g. 6300 TD



The diagram shows a function $n(t)$ plotted against time t . The function is piecewise linear and consists of three segments: a constant segment at $n_{\min}$, a linear increase segment, and a constant segment at $n_{\max}$. The segments are separated by vertical dashed lines. The area under the function is shaded gray.

Subject to change

Available on request:

- Electrically isolated speed signal circuit
- Varying voltage potentials for power and logic circuit

Signal data	Speed signal U _S Low	Condition: I _{sink}	Speed signal U _S High	Condition: I _{source}	Tach operating voltage U _{BS} max.	Admissible sink current I _{sink} max.	Pulses per revolution	Fan description Basic type
Type	VDC	mA	VDC	mA	VDC	mA		Page
5112 N	≤ 0.4	2	≤ 15	0	5	20	2	66
5114 N / 5118 N	≤ 0.4	2	≤ 60	0	60	20	2	66
5300	≤ 0.4	2	≤ 60	0	60	4	2	67
5300 TD	≤ 0.4	2	≤ 60	0	60	20	6	68
7112 N / 7118 N	≤ 0.4	2	≤ 60	0	60	20	2	69
7114 N	≤ 0.4	2	≤ 30	0	30	20	2	69
7200 N	≤ 0.4	2	≤ 15	0	15	20	2	70
6400	≤ 0.4	2	≤ 60	0	60	20	2	71
6300 TD	≤ 0.4	2	≤ 60	0	60	20	6	75
6300 N	≤ 0.4	2	≤ 60	0	60	20	6	76
6300 NTD	≤ 0.4	2	≤ 60	0	60	20	6	77
6300	≤ 0.4	2	≤ 60	0	60	20	2	78
DV 6300 TD	≤ 0.4	2	≤ 60	0	60	20	6	80
2200 FTD	≤ 0.4	2	≤ 60	0	60	20	6	81
RL 48	≤ 0.4	2	≤ 30	0	30	4	2	97
RL 65	≤ 0.4	2	≤ 30	0	30	4	2	98
RL 90 N	≤ 0.4	2	≤ 30	0	30	4	2	99
RLF 100	≤ 0.4	2	≤ 30	0	30	4	2	100
RG 90 N	≤ 0.4	2	≤ 30	0	30	4	2	101
RG 125 N	≤ 0.4	2	≤ 30	0	30	4	2	102
RG 140 N	≤ 0.4	3	≤ 60	0	60	4	2	103
RG 160 N	≤ 0.4	2	≤ 30	0	30	20	2	104
RG 160 NTD	≤ 0.4	2	≤ 60	0	60	20	6	105
RG 190 TD	≤ 0.4	2	≤ 60	0	60	20	6	106
RG 220 TD	≤ 0.4	2	≤ 60	0	60	20	6	107
RG 225 TD	≤ 0.4	2	≤ 60	0	60	20	6	108
RET 97 TD	≤ 0.4	2	≤ 60	0	60	20	6	109
REF 100	≤ 0.4	2	≤ 30	0	30	4	2	110
RER 120 TD	≤ 0.4	2	≤ 60	0	60	20	6	112
RER 133 TD	≤ 0.4	2	≤ 60	0	60	20	6	117
RER 160 NTD	≤ 0.4	2	≤ 60	0	60	20	6	119
REF 175 TD	≤ 0.4	2	≤ 60	0	60	20	6	120
RER 175 TD	≤ 0.4	2	≤ 60	0	60	20	6	121
RER 190 TD	≤ 0.4	2	≤ 60	0	60	20	6	122
RER 220 TD	≤ 0.4	2	≤ 60	0	60	20	6	128
RER 225 TD	≤ 0.4	2	≤ 60	0	60	20	6	129
Subject to change								

Note:

Fans that come with these fan specials could have variations with respect to the temperature range, voltage range, and power consumption compared to standard fans without specials.