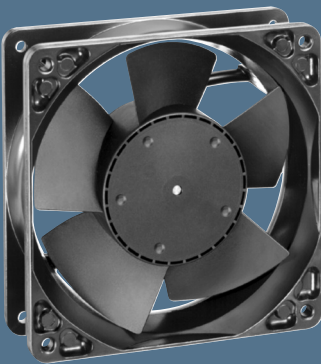


max. 237 m³/h

DC axial fans

Series 4100 N 119 x 119 x 38 mm



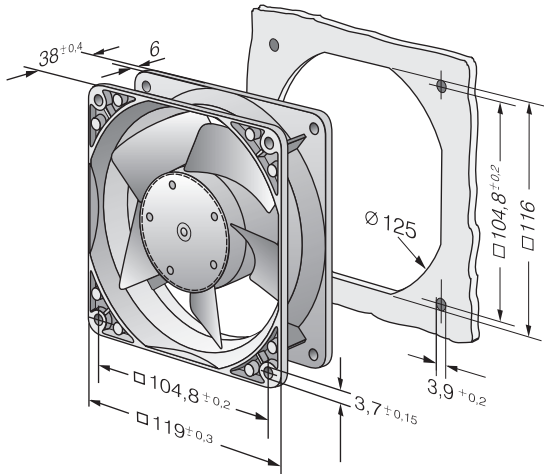
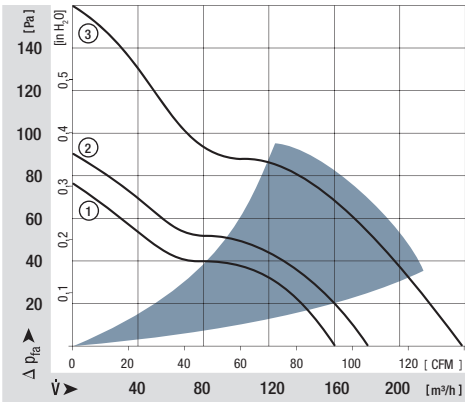
Highlights:

- 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.
- Electrical connection with flat plugs, 2.8 x 0.5 mm. Optionally with strands.
- Air intake over struts. Direction of rotation clockwise, seen on rotor.
- Mass: 390 g.

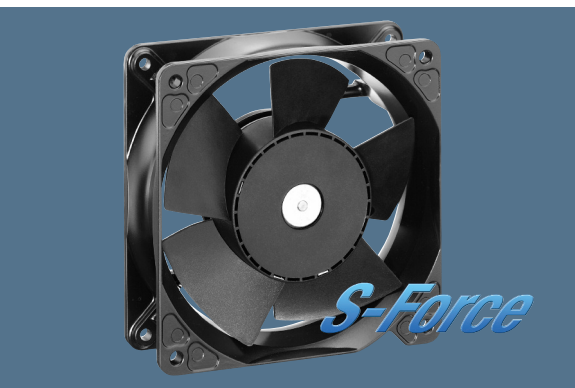
Nominal data		Air flow	Air flow	Nominal voltage	Voltage range	Sound pressure level	Sound power level	Sinter sleeve bearings Ball bearings	Power input	Nominal speed	Temperature range	Service life L ₁₀ (40 °C) ebm-papst Standard	Service life L ₁₀ (T _{max}) ebm-papst Standard	Life expectancy L ₁₀ Δ (40 °C) see P. 15	Curve	Specials
Type		m ³ /h	CFM	VDC	VDC	dB(A)	Bel(A)	□ / ■	Watts	RPM	°C	Hours	Hours	Hours	P. 110-114	
4182 NGX		160	94,2	12	7...15	44	5,3	□	3,5	2 800	-10...+75	85 000 / 37 500	167 500	167 500	1	/2
4182 NX		180	105,9	12	7...15	49	5,7	■	4,5	3 200	-30...+75	85 000 / 37 500	167 500	167 500	2	/2/12
4182 NXH		237	139,5	12	7...14	57	6,5	■	11,0	4 400	-30...+55	70 000 / 50 000	142 500	142 500	3	
4184 NGX		160	94,2	24	12...30	44	5,3	□	3,5	2 800	-10...+75	85 000 / 37 500	167 500	167 500	1	/2
4184 NXM		160	94,2	24	12...30	44	5,3	■	3,5	2 800	-30...+75	85 000 / 37 500	167 500	167 500	1	
4184 NX		180	105,9	24	12...29	49	5,7	■	4,5	3 200	-30...+75	85 000 / 37 500	167 500	167 500	2	/2/17
4184 NXH		237	139,5	24	12...25	57	6,5	■	11,0	4 400	-30...+55	70 000 / 50 000	142 500	142 500	3	/2
4188 NGX		160	94,2	48	36...56	44	5,3	□	3,8	2 800	-10...+75	85 000 / 37 500	167 500	167 500	1	
4188 NXM		160	94,2	48	36...56	44	5,3	■	3,5	2 800	-30...+75	85 000 / 37 500	167 500	167 500	1	/12



max. 440 m³/h

DC axial fans

Series 4100 N High Performance 119 x 119 x 38 mm



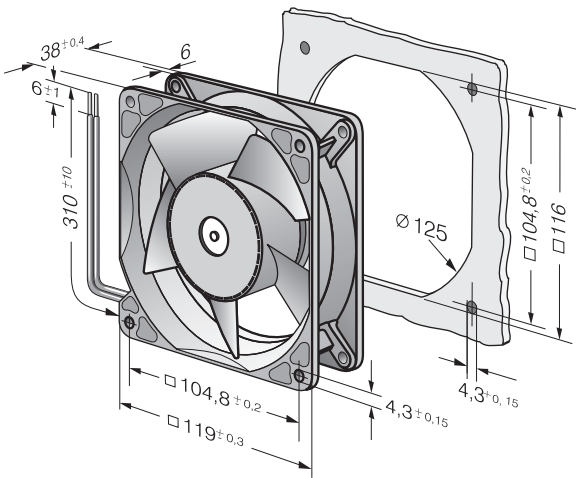
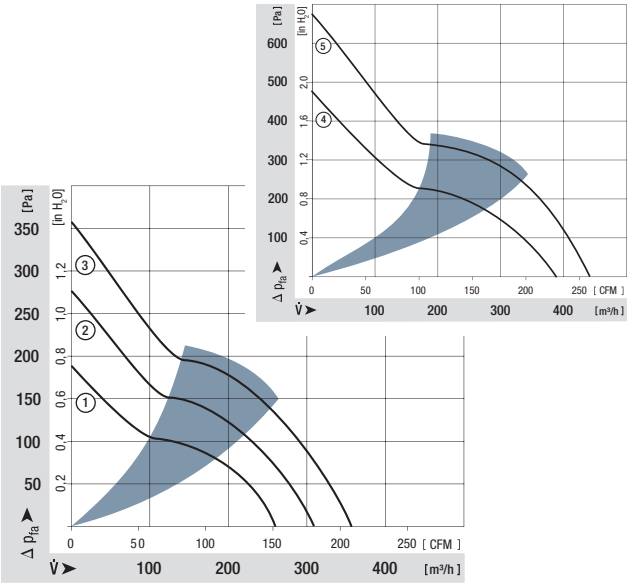
Highlights:

- 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	



max. 570 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.
- Available as standard with PWM control input and speed signal, additional inputs and outputs on request. 3-phase fan drive with high degree of running smoothness.

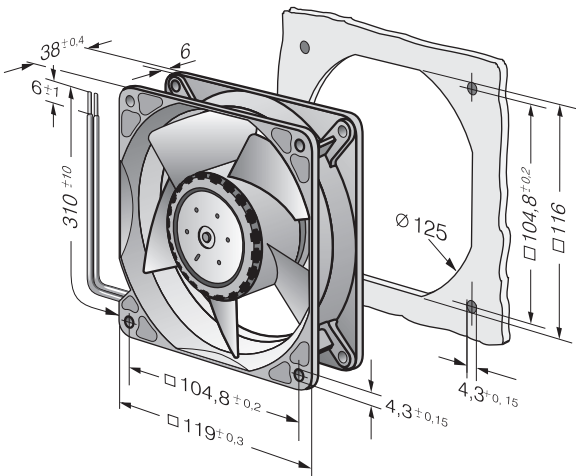
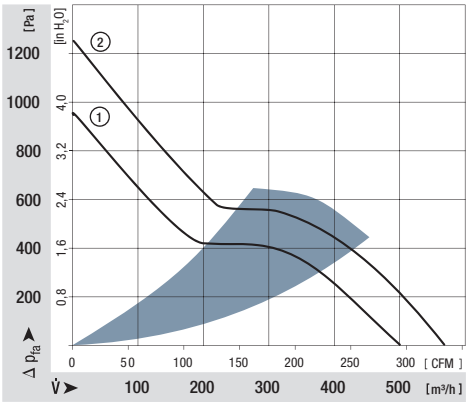
General characteristics:

- Material: aluminium housing, fibreglass-reinforced PA impeller; housing with grounding lug for screw M4 x 8 (Torx).
- Protected against reverse polarity and locking.
- Connection via single strands AWG 20, sensor and control leads AWG 22, UL1007, TR 64. Bared and tin-plated.
- Air intake over struts. Direction of rotation clockwise, seen on rotor.
- Mass: 425 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	
4114 N/2H7P		500	294,2	24	16...30	76	8,5	■	90	9 500	-20...+75	57 500 / 25 000	115 000		1	/2
4114 N/2H8P		570	335,5	24	16...30	78	8,9	■	120	11 000	-20...+75	55 000 / 22 500	110 000		2	/2
4118 N/2H7P		500	294,2	48	36...60*	76	8,5	■	90	9 500	-20...+75	57 500 / 25 000	115 000		1	/2
4118 N/2H8P		570	335,5	48	36...60*	78	8,9	■	120	11 000	-20...+75	55 000 / 22 500	110 000		2	/2

*36...72 VDC on request.

Speed control range from 500 RPM up to maximum nominal speed. Stationary at 0 % PWM, maximum speed at sensor break.
To attain the specified service life, an external capacitor must be wired between the plus and minus strands.
Please note the wiring suggestion on page 22.



Mouser Electronics

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[ebm-papst:](#)

[4114N/2H3](#) [4118N/2H3](#) [4118N/2HH-00187](#) [4112N](#) [4112NG](#) [4114N](#) [4114N/2H6](#) [4114N/2HH](#) [4114N/2X](#)
[4114N/2XH](#) [4118N/2H4](#) [4118N/2H5](#) [4118N/2H6](#) [4118N/2H6P-269](#)