

DC Axial Fans

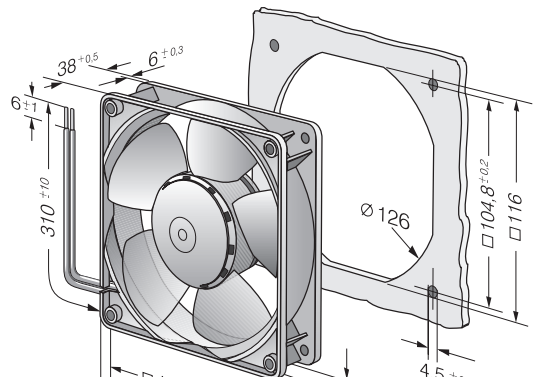
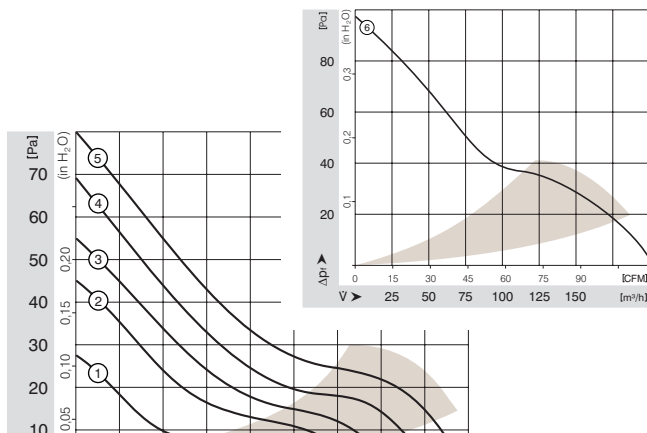
Series 4200 N 119 x 119 x 38 mm



- DC fans with electronically commutated external rotor motor. Fully integrated commutation electronics.
- With electronic protection against reverse polarity, blocking and overloading; partially impedance protected.
- Fan of fibreglass reinforced plastic. PBTP housing, PA impeller.
- Air exhaust over struts. Rotational direction CCW looking at rotor.
- Electrical connection via 2 leads AWG 22, TR 64. Stripped and tinned ends.
- Mass 230 g.

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Nominal Data	Air Flow	Air Flow	Nominal Voltage	Voltage Range	Noise	Sinter-Sleeve Bearings	Ball Bearings	Power Input	Nominal Speed	Temperature Range	Service Life L ₁₀ at 40 °C	at t _{max}	Curve	Specials
Type	m ³ /h	CFM	V DC	V DC	dB(A)	Bel	□/■	Watt	min ⁻¹	°C	Hours	Hours	P. 83	
4212 NGL	100	58.9	12	7...14.5	28	4.3	□	1.4	1 700	-20...+70	80 000 / 40 000	1		
4212 NL	100	58.9	12	7...14.5	28	4.3	■	1.1	1 700	-20...+70	80 000 / 40 000	1		
4212 NGML	127	74.7	12	7...14.5	35	4.8	□	2.3	2 150	-20...+70	70 000 / 35 000	2		
4212 NML	127	74.7	12	7...14.5	35	4.8	■	1.9	2 150	-20...+70	70 000 / 35 000	2		
4212 NGM	144	84.8	12	7...14.5	38	5.1	□	3.1	2 450	-20...+70	70 000 / 35 000	3		
4212 NM	144	84.8	12	7...14.5	38	5.1	■	2.8	2 450	-20...+70	70 000 / 35 000	3		
4212 NGN	165	97.1	12	7...14.5	42	5.4	□	4.3	2 750	-20...+70	60 000 / 30 000	4	/2	
4212 NN	165	97.1	12	7...14.5	42	5.4	■	4.0	2 750	-20...+70	60 000 / 30 000	4		
4212 NH	180	105.9	12	7...14.5	45	5.7	■	4.8	3 050	-20...+70	60 000 / 30 000	5	/2	
4212 NHH	205	120.7	12	7...14.5	49	6.1	■	7.5	3 500	-20...+60	50 000 / 30 000	6		
4214 NGL	100	58.9	24	12...28	28	4.3	□	1.4	1 700	-20...+70	80 000 / 40 000	1		
4214 NL	100	58.9	24	12...28	28	4.3	■	1.2	1 700	-20...+70	80 000 / 40 000	1		
4214 NGML	127	74.7	24	12...28	35	4.8	□	2.3	2 150	-20...+70	70 000 / 35 000	2		
4214 NML	127	74.7	24	12...28	35	4.8	■	1.9	2 150	-20...+70	70 000 / 35 000	2		
4214 NGM	144	84.8	24	12...28	38	5.1	□	3.1	2 450	-20...+70	70 000 / 35 000	3		
4214 NM	144	84.8	24	12...28	38	5.1	■	2.6	2 450	-20...+70	70 000 / 35 000	3		
4214 NGN	165	97.1	24	12...28	42	5.4	□	4.3	2 750	-20...+70	60 000 / 30 000	4	/2	
4214 NN	165	97.1	24	12...28	42	5.4	■	3.6	2 750	-20...+70	60 000 / 30 000	4		
4214 NH	180	105.9	24	12...28	45	5.7	■	4.8	3 050	-20...+70	60 000 / 30 000	5	/2	
4214 NHH	205	120.7	24	12...28	49	6.1	■	7.5	3 500	-20...+70	50 000 / 25 000	6		
4218 NGN	165	97.1	48	36...56	42	5.4	□	4.0	2 750	-20...+70	60 000 / 30 000	4	/2	
4218 NN	165	97.1	48	36...56	42	5.4	■	3.6	2 750	-20...+70	60 000 / 30 000	4		
4218 NH	180	105.9	48	36...56	45	5.7	■	4.8	3 050	-20...+70	60 000 / 30 000	5	/2	



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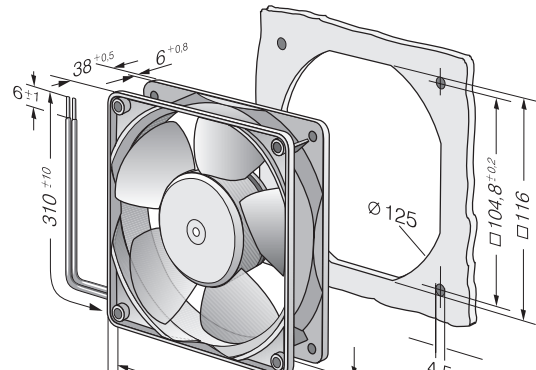
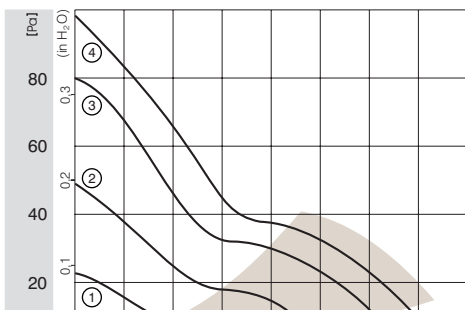
Series 4200 119 x 119 x 38 mm



- DC fans with electronically commutated external rotor motor. Fully integrated commutation electronics.
- With electronic protection against reverse polarity, blocking and overloading by PTC-resistor; partially impedance protected.
- Fan of fibreglass reinforced plastic. PBTP housing, PA impeller.
- Air exhaust over struts. Rotational direction CCW looking at rotor.
- Optional Vario-Pro: Highly adaptable software configuration of the fan enables a tailor-made solution to the specific requirements of your applications.
- Electrical connection via 2 leads AWG 22, TR 64. Stripped and tinned ends.
- Mass 290 g.

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Nominal Data	Air Flow		Nominal Voltage	Voltage Range	Noise	Sinter-Sleeve Bearings	Ball Bearings	Power Input	Nominal Speed	Temperature Range	Service Life L ₁₀ at 40 °C		Curve	Specials
	m ³ /h	CFM									V DC	V DC		
4212 L	86	50.6	12	7...14.5	29	4.2	■	1.2	1 600	-20...+75	80 000 / 35 000		1	/12
4212 GM	127	74.7	12	7...14.5	38	4.9	□	2.2	2 350	-20...+75	70 000 / 30 000		2	
4212 M	127	74.7	12	7...14.5	38	4.9	■	2.2	2 350	-20...+75	70 000 / 30 000		2	/2; /19
4212	165	97.1	12	7...14.5	45	5.6	■	4.3	3 050	-20...+75	62 500 / 27 500		3	/2; /12
4212 H	184	108.3	12	7...14.5	49	5.9	■	5.3	3 400	-20...+65	60 000 / 32 500		4	/2; /12
4214 L	86	50.6	24	12...28	29	4.2	■	1.2	1 600	-20...+75	80 000 / 35 000		1	
4214 G	165	97.1	24	12...28	45	5.6	□	4.3	3 050	-20...+75	62 500 / 27 500		3	
4214	165	97.1	24	12...28	45	5.6	■	4.3	3 050	-20...+75	62 500 / 27 500		3	/2; /12; /17; /19
4214 H	184	108.3	24	12...28	49	5.9	■	5.3	3 400	-20...+65	60 000 / 32 500		4	/2; /12
4218	165	97.1	48	36...56	45	5.6	■	4.3	3 050	-20...+75	62 500 / 27 500		3	/2; /12
4218 H	184	108.3	48	36...56	49	5.9	■	5.6	3 400	-20...+65	60 000 / 32 500		4	/2; /12



DC Axial Fans

Series 4100 N 119 x 119 x 38 mm

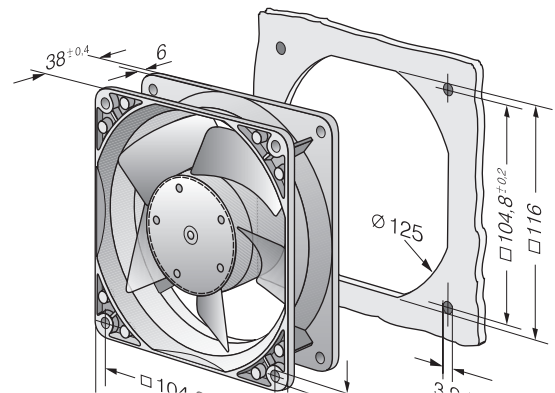
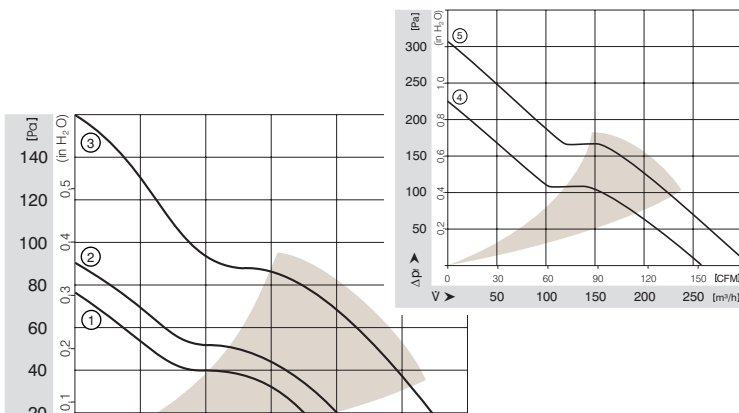


- DC fans with electronically commutated external rotor motor. Fully integrated commutation electronics.
- With electronic protection against reverse polarity, blocking and overloading by PTC-resistor; partially impedance protected.
- Metal fan housing. Impeller of fibre-glass reinforced plastic PA. Housing with ground lug M4 for M4 x 8 screws.
- Air intake over struts. Rotational direction CW looking at rotor.
- Optional Vario-Pro: Highly adaptable software configuration of the fan enables a tailor-made solution to the specific requirements of your applications.
- Electrical connection via 2 flat pins 2,8 x 0,5 mm.
- Mass 390 g.

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Nominal Data	Air Flow		Nominal Voltage	Voltage Range	Noise	Sinter-Sleeve Bearings Ball Bearings	Power Input	Nominal Speed	Temperature Range	Service Life L ₁₀ at 40 °C		Curve	Specials
	m ³ /h	CFM								V DC	V DC		
4182 NGX	160	94.2	12	7...15	44	5.3	□	3.5	2 800	-10...+75	85 000 / 37 500	1	/2
4182 NX	180	105.9	12	7...15	49	5.7	■	4.5	3 200	-30...+75	85 000 / 37 500	2	/2; /12
4182 NXH	237	139.5	12	7...14	57	6.5	■	11.0	4 400	-30...+55	70 000 / 50 000	3	
4112 NHH*	260	152.9	12	9...15	60	6.8	■	15.5	5 000	-20...+65	70 000 / 55 000	4	VP
4112 NH3*	310	182.4	12	9...15	65	7.2	■	19.5	6 000	-20...+65	65 000 / 37 500	5	
4184 NGX	160	94.2	24	12...30	44	5.3	□	3.5	2 800	-10...+75	85 000 / 37 500	1	/2
4184 NXM	160	94.2	24	12...30	44	5.3	■	3.5	2 800	-30...+75	85 000 / 37 500	1	
4184 NX	180	105.9	24	12...29	49	5.7	■	4.5	3 200	-30...+75	85 000 / 37 500	2	/2
4184 NXH	237	139.5	24	12...25	57	6.5	■	11.0	4 400	-30...+55	70 000 / 50 000	3	/2
4114 NHH*	260	152.9	24	16...30	60	6.8	■	15.5	5 000	-20...+65	70 000 / 52 500	4	VP
4114 NH3*	310	182.4	24	16...30	65	7.2	■	19.5	6 000	-20...+65	65 000 / 37 500	5	
4188 NGX	160	94.2	48	36...56	44	5.3	□	3.8	2 800	-10...+75	85 000 / 37 500	1	
4188 NXM	160	94.2	48	36...56	44	5.3	■	3.5	2 800	-30...+75	85 000 / 37 500	1	
4118 NHH*	260	152.9	48	36...56	60	6.8	■	15.5	5 000	-20...+65	70 000 / 52 500	4	VP
4118 NH3*	310	182.4	48	36...56	65	7.2	■	19.5	6 000	-20...+65	65 000 / 37 500	5	

*Electrical connection via leads



DC Diagonal Fans

Series DV 4100 119 x 119 x 38 mm



- DC fans with electronically commutated external rotor motor. Fully integrated commutation electronics.
- Diagonal fan with compression-proof curve and low noise level.
- With electronic protection against reverse polarity, blocking and overloading.
- Metal flange. Impeller of fibre-glass reinforced plastic PA. Housing of fibre-glass reinforced PBT. Metal housing optional.
- Air exhaust over struts. Rotational direction CCW looking at rotor.
- Electrical connection via 2 leads AWG 22, TR 64. Stripped and tinned ends.
- Mass: Plastic housing 375 g, metal housing 455g.
- Optional Vario-Pro: Highly adaptable software configuration of the fan enables a tailor-made solution to the specific requirements of your applications.

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Nominal Data	Air Flow		Nominal Voltage	Voltage Range	Noise	Sinter-Sleeve Bearings Ball Bearings		Power Input	Nominal Speed	Temperature Range	Service Life L ₁₀ at 40 °C		Curve	Specials
	m ³ /h	CFM				V DC	V DC				dB(A)	Bel		
DV 4112 N	275	161.9	12	9...15	60	6.7	■	21.0	6 000	-20...+65	70 000 / 40 000	1	VP	
DV 4114 N	275	161.9	24	16...30	60	6.7	■	21.0	6 000	-20...+65	70 000 / 40 000	1	VP	
DV 4118 N	275	161.9	48	36...60	60	6.7	■	21.0	6 000	-20...+65	70 000 / 40 000	1	VP	

