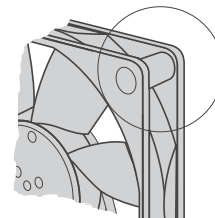




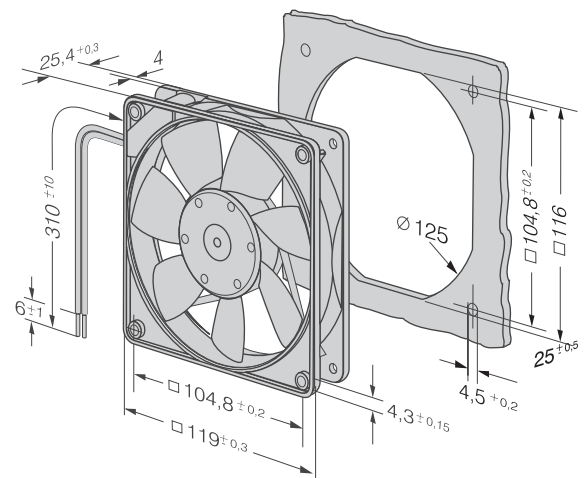
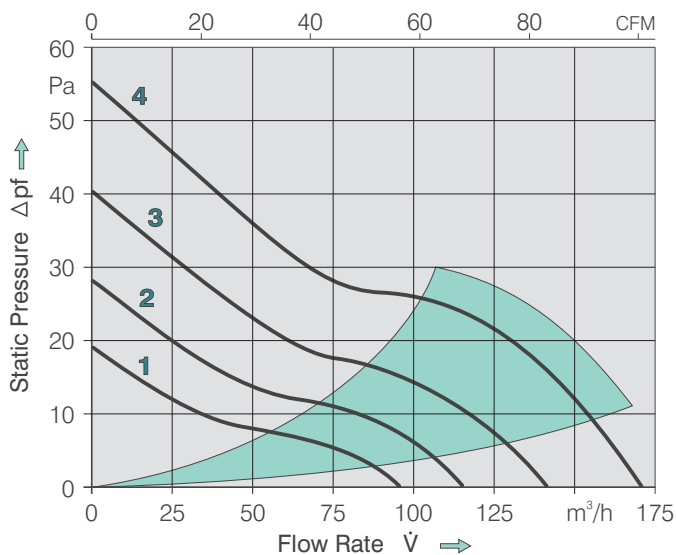
- DC fans with electronically commutated external rotor motor. Fully integrated commutation electronics.
- With electronic protection against reverse polarity, blocking and overloading by PTC-resistor; partially impedance protected.
- Fan of fibreglass reinforced plastic. PBTP housing, PA impeller.
- Air exhaust over struts. Rotational direction CCW looking at rotor.
- Electrical connection via 2 leads AWG 24, TR 64. Stripped and tinned ends.
- Mass 175 g.

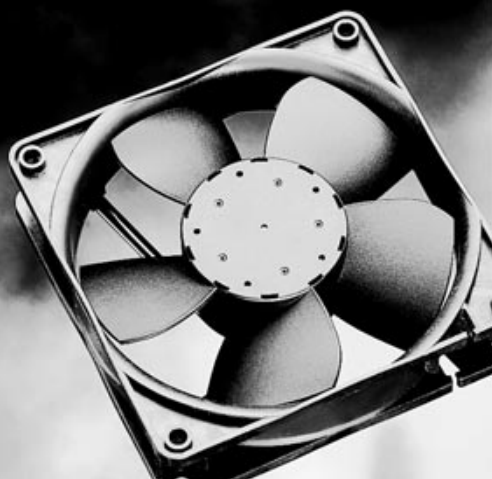
Series 4400 F 119 x 119 x 25 mm

Air flow		Nominal Voltage		Noise	Sinter-Sleeve Bearings	Ball Bearings	Power Input	Nominal Speed	Temperature Range	Service Life L ₁₀		Curve	Type	Specials
m ³ /h	CFM	V DC	V DC							dB(A)	bels			
94	55.3	12	7...14	26	3.9	□	1.25	1600	-20...+75	80 000 / 35 000		1	4412FGL	59
114	67.1	12	7...12.6	32	4.3	□	2.0	1950	-20...+75	75 000 / 32 500		2	4412FGML	59/60
140	82.4	12	7...12.6	38	4.8	□	3.2	2400	-20...+75	70 000 / 30 000		3	4412FGM	60
140	82.4	12	7...12.6	38	4.8	■	3.2	2400	-20...+75	70 000 / 30 000		3	4412FM	59
170	100.1	12	8...12.6	43	5.3	■	5.3	2900	-20...+60	60 000 / 37 500		4	4412F	59
94	55.3	24	18...28	26	3.9	■	1.0	1600	-20...+75	80 000 / 35 000		1	4414FL	59
140	82.4	24	12...28	38	4.8	■	3.2	2400	-20...+75	70 000 / 30 000		3	4414FM	59
170	100.1	24	12...28	43	5.3	□		2900	-20...+75	62 500 / 27 500		4	4414FG	59
170	100.1	24	12...28	43	5.3	■	5.0	2900	-20...+60	60 000 / 37 500		4	4414F	59/60
170	100.1	48	43...53	43	5.3	■	5.5	2900	-20...+60	60 000 / 37 500		4	4418F	59/60/66



Available on request:
Fan housing with moulded-in spacers. For mounting over both flanges.

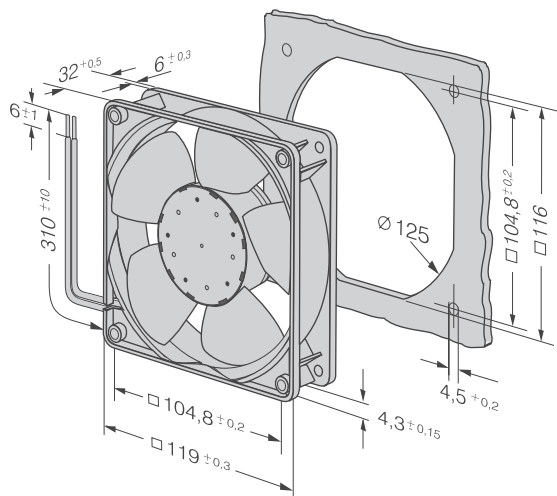
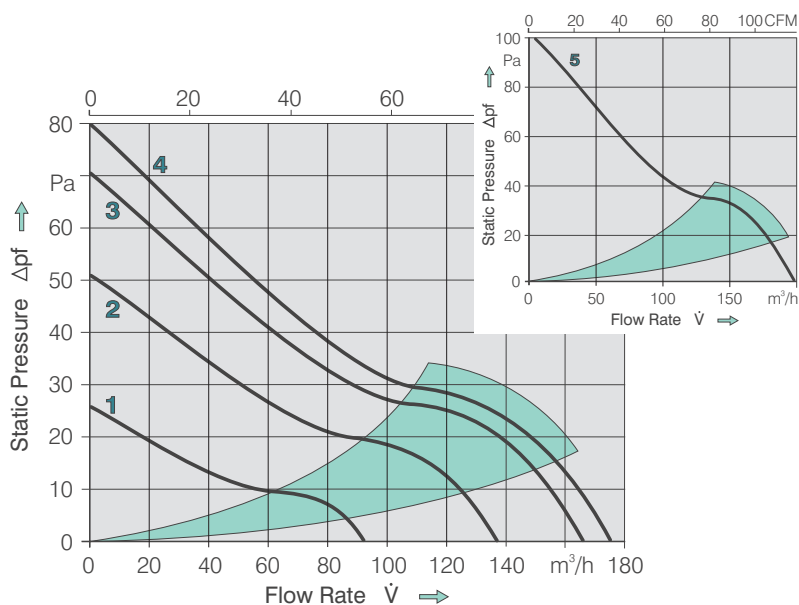


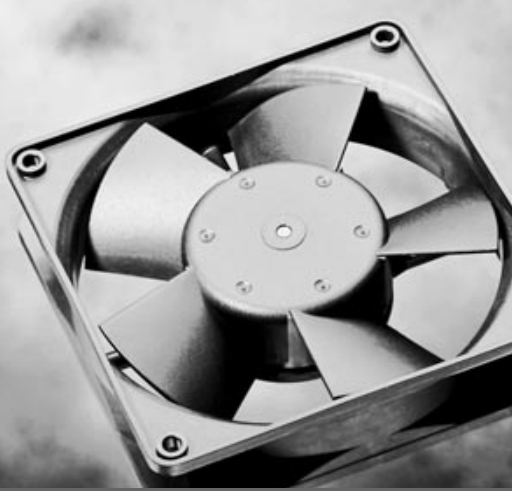


- DC fans with electronically commutated external rotor motor. Fully integrated commutation electronics.
- With electronic protection against reverse polarity, blocking and overloading; partially impedance protected.
- Fan of fibreglass reinforced plastic. PBTP housing, PA impeller.
- Air exhaust over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

Series 4300N 119 x 119 x 32 mm

Air flow		Nominal Voltage	Voltage Range	Noise	Sinter-Sleeve Bearings	Ball Bearings	Power Input	Nominal Speed	Temperature Range	Service Life L ₁₀		Curve	Type	Specials
m ³ /h	CFM	V DC	V DC	dB(A)	bels	□/■	Watt	min ⁻¹	°C	Hours	Hours			Page
93	54.7	12	7...14.5	27	4.1	□	1.2	1650	-20...+70	80000/40000	1	4312NGL		
93	54.7	12	7...14.5	27	4.1	■	1.2	1650	-20...+70	80000/40000	1	4312NL		
137	80.6	12	7...14.5	37	5.1	□	2.6	2450	-20...+70	70000/35000	2	4312NGM		
137	80.6	12	7...14.5	37	5.1	■	2.6	2450	-20...+70	70000/35000	2	4312NM		
166	97.7	12	7...14.5	43	5.6	□	4.0	3000	-20...+70	60000/30000	3	4312NGN		
166	97.7	12	7...14.5	43	5.6	■	4.0	3000	-20...+70	60000/30000	3	4312NN		
176	103.4	12	7...14.5	45	5.8	■	4.5	3150	-20...+70	60000/30000	4	4312NH	59	
198	116.5	12	7...14.5	49	6.2	■	6.5	3600	-20...+60	57500/35000	5	4312NHH		
93	54.7	24	12...28	27	4.1	□	1.2	1650	-20...+70	80000/40000	1	4314NGL		
93	54.7	24	12...28	27	4.1	■	1.2	1650	-20...+70	80000/40000	1	4314NL		
137	80.6	24	12...28	37	5.1	□	2.6	2450	-20...+70	70000/35000	2	4314NGM		
137	80.6	24	12...28	37	5.1	■	2.6	2450	-20...+70	70000/35000	2	4314NM		
166	97.7	24	12...28	43	5.6	□	4.3	3000	-20...+70	60000/30000	3	4314NGN		
166	97.7	24	12...28	43	5.6	■	4.3	3000	-20...+70	60000/30000	3	4314NN		
176	103.4	24	12...28	45	5.8	■	4.5	3150	-20...+70	60000/30000	4	4314NH		
198	116.5	24	12...28	49	6.2	■	6.0	3600	-20...+70	57500/27500	5	4314NHH		
166	97.7	48	36...56	43	5.6	□	4.1	3000	-20...+70	60000/30000	3	4318NGN		





- 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 CW looking at rotor.
- Electrical connection via leads AWG 22, TR 64. Stripped and tinned ends.
- Mass 220 g.

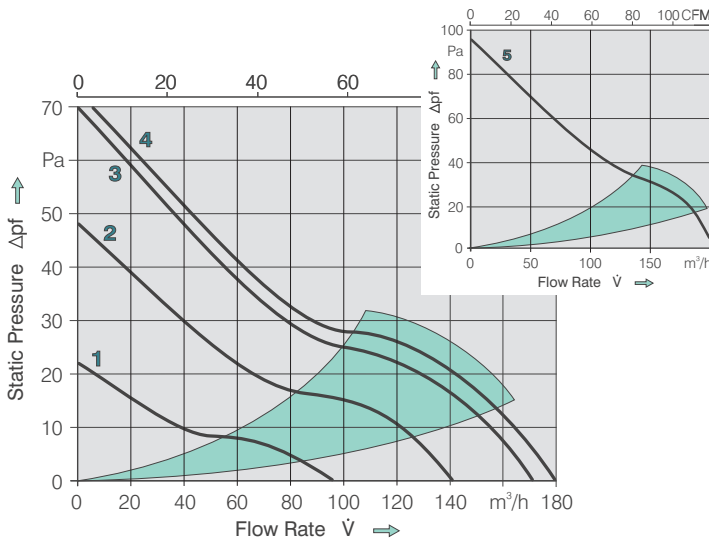
Series 4300

119 x 119 x 32 mm

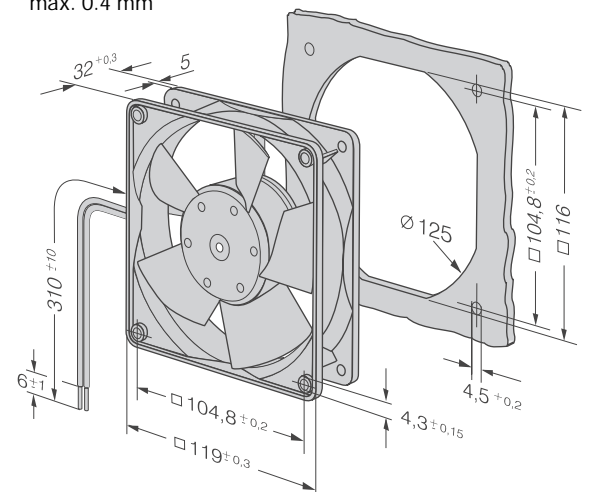
Air flow		Nominal Voltage	Voltage Range	Noise	Sinter-Sleeve Bearings	Ball Bearings	Power Input	Nominal Speed	Temperature Range	Service Life L ₁₀ at t _{max}		Curve	Type	Specials
m ³ /h	CFM	V DC	V DC	dB(A)	bels	□/■	Watt	min ⁻¹	°C	Hours	Hours			Page
95	55.9	12	6...15	30	4.3	□	1.2	1550	-20...+75	80 000/35 000	1	4312 GL		
95	55.9	12	6...15	30	4.3	■	1.2	1550	-20...+75	80 000/35 000	1	4312 L	60/62	
140	82.4	12	6...15	39	5.3	□	2.6	2300	-20...+75	70 000/30 000	2	4312 GM		
140	82.4	12	6...15	39	5.3	■	2.6	2300	-20...+75	70 000/30 000	2	4312 M	60	
170	100.1	12	6...15	45	5.8	□	5.0	2800	-20...+75	62 500/27 500	3	4312 G		
170	100.1	12	6...15	45	5.8	■	5.0	2800	-20...+75	62 500/27 500	3	4312	59/64	
180	105.9	12	6...15	47	6.1	■	5.8	3000	-20...+75	57 500/25 000	4	4312-143		
204	120.1	12	6...13.2	51	6.4	■	8.5	3400	-20...+75	47 500/20 000	5	4312-179		
95	55.9	24	12...28	30	4.3	■	1.2	1550	-20...+75	80 000/35 000	1	4314 L		
140	82.4	24	12...28	39	5.3	■	2.6	2300	-20...+75	70 000/30 000	2	4314 M		
170	100.1	24	12...28	45	5.8	□	5.0	2800	-20...+75	62 500/27 500	3	4314 G	59	
170	100.1	24	12...28	45	5.8	■	5.0	2800	-20...+75	62 500/27 500	3	4314	59/60/62	
180	105.9	24	12...28	47	6.1	■	5.8	3000	-20...+75	57 500/25 000	4	4314-147		
204	120.1	24	12...26.5	51	6.4	■	9.5	3400	-20...+75	45 000/20 000	5	4314-180		
140	82.4	48	36...56	39	5.3	■	3.5	2300	-20...+75	70 000/30 000	2	4318 M	59	
170	100.1	48	36...53	45	5.8	□	5.0	2800	-20...+75	62 500/27 500	3	4318 G	59	
170	100.1	48	36...53	45	5.8	■	5.0	2800	-20...+75	62 500/27 500	3	4318	59/60/62	

Attention:

In the foreseeable future the 4300 fan series will be removed from the range and replaced by the products of the new series 4300 N.



Rotor protrusion max. 0.4 mm



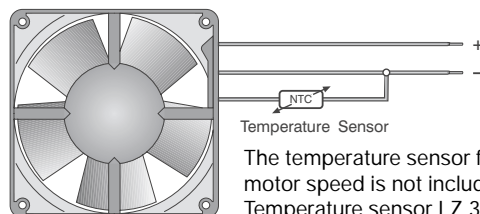
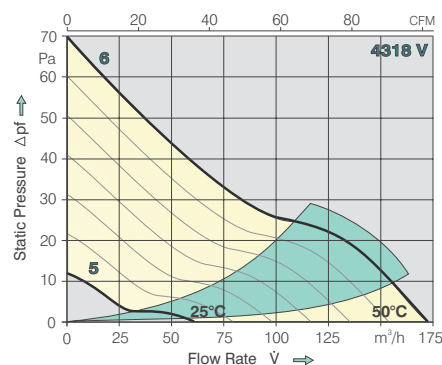
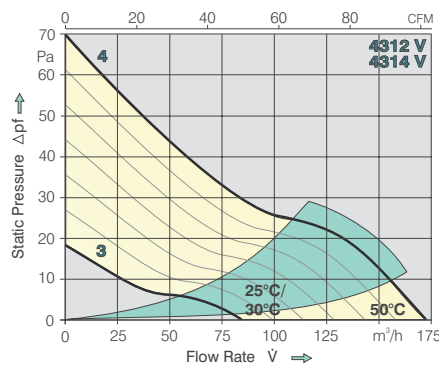
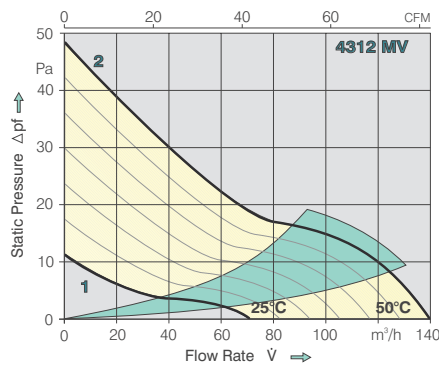


- DC fans with electronically commutated external rotor motor. Fully integrated commutation electronics.
- With electronic protection against reverse polarity, blocking and overloading by PTC-resistor; partially impedance protected.
- Fan of fibreglass reinforced plastic. PBTP housing, PA impeller.
- Air exhaust over struts. Rotational direction CW looking at rotor.
- Electrical connection via 3 leads AWG 22, TR 64. Stripped and tinned ends.
- Mass 220 g.

Series 4300

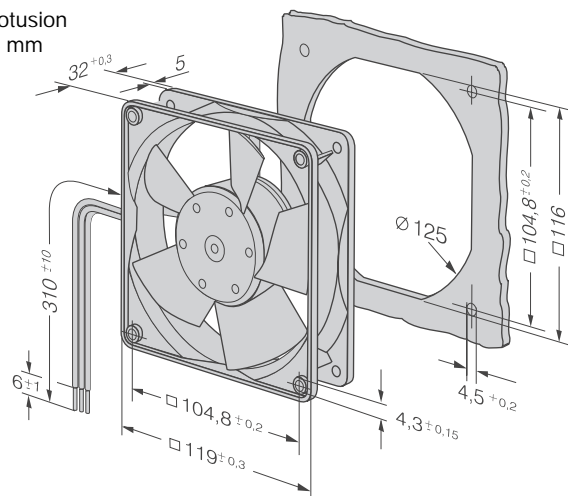
119 x 119 x 32 mm VARIOFAN

	Air flow		Nominal Voltage	Voltage Range	Noise	Sinter-Sleeve Bearings		Power Input	Nominal Speed	Temperature Range	Service Life L ₁₀		Curve	Type	Specials
	m ³ /h	CFM				V DC	V DC				dB(A)	bels			
25-50 °C	68	40.0	12	8...15	22	3.7	■	1.5	1 150	-20...+65	70 000 / 40 000		1	4312 MV	63
	140	82.4			39	5.3		3.0	2 300				2		
25-50 °C	85	50.0	12	8...13.2	29	4.2	■	2.4	1 400	-20...+65	65 000 / 35 000		3	4312 V	63
	170	100.0			45	5.8		5.5	2 800				4		
30-50 °C	85	50.0	24	21...27	29	4.2	■	3.0	1 400	-20...+65	65 000 / 35 000		3	4314 V	63
	170	100.0			45	5.8		5.4	2 800				4		
25-50 °C	61	35.9	48	40...53	21	-	■	2.6	1 000	-20...+65	65 000 / 35 000		5	4318 V	63
	170	100.0			45	5.8		5.4	2 800				6		



The temperature sensor for controlling the motor speed is not included in delivery. Temperature sensor LZ 370 see accessories.

Rotor protrusion max. 0.4 mm

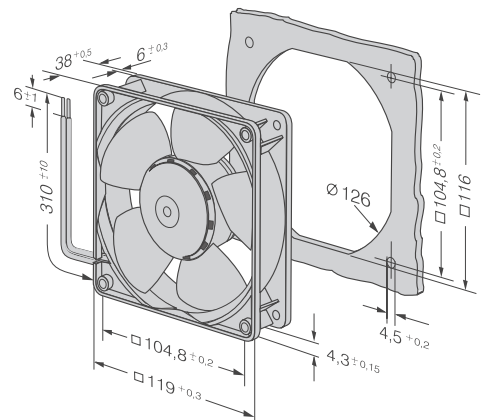
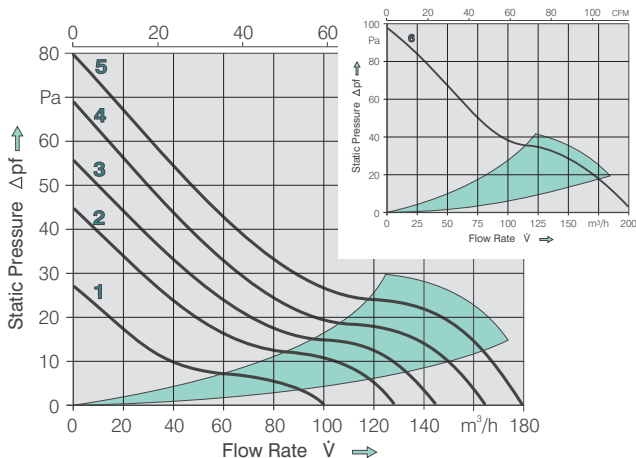




- DC fans with electronically commutated external rotor motor. Fully integrated commutation electronics.
- With electronic protection against reverse polarity, blocking and overloading; partially impedance protected.
- Fan of fibreglass reinforced plastic. PBTP housing, PA impeller.
- Air exhaust over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

Series 4200N 119 x 119 x 38 mm

Air flow		Nominal Voltage	Voltage Range	Noise	Sintec-Sleeve Bearings	Ball Bearings	Power Input	Nominal Speed	Temperature Range	Service Life L ₁₀	at t _{max}	Curve	Type	Specials
m ³ /h	CFM	V DC	V DC	dB(A)	bels	□/■	Watt	min ⁻¹	°C	Hours	Hours			Page
100	58.9	12	7...14.5	28	4.3	□	1.4	1700	-20...+70	80000/40000	1	4212 NGL		
100	58.9	12	7...14.5	28	4.3	■	1.1	1700	-20...+70	80000/40000	1	4212 NL		
127	74.8	12	7...14.5	35	4.8	□	2.3	2150	-20...+70	70000/35000	2	4212 NGML		
127	74.8	12	7...14.5	35	4.8	■	1.9	2150	-20...+70	70000/35000	2	4212 NML		
144	84.8	12	7...14.5	38	5.1	□	3.1	2450	-20...+70	70000/35000	3	4212 NGM		
144	84.8	12	7...14.5	38	5.1	■	2.8	2450	-20...+70	70000/35000	3	4212 NM		
165	97.1	12	7...14.5	42	5.4	□	4.3	2750	-20...+70	60000/30000	4	4212 NGN	59	
165	97.1	12	7...14.5	42	5.4	■	4.0	2750	-20...+70	60000/30000	4	4212 NN		
180	105.9	12	7...14.5	45	5.7	■	4.8	3050	-20...+70	60000/30000	5	4212 NH		
205	120.7	12	7...14.5	49	6.1	■	7.5	3500	-20...+60	50000/30000	6	4212 NHH		
100	58.9	24	12...28	28	4.3	□	1.4	1700	-20...+70	80000/40000	1	4214 NGL		
100	58.9	24	12...28	28	4.3	■	1.2	1700	-20...+70	80000/40000	1	4214 NL		
127	74.8	24	12...28	35	4.8	□	2.3	2150	-20...+70	70000/35000	2	4214 NGML		
127	74.8	24	12...28	35	4.8	■	1.9	2150	-20...+70	70000/35000	2	4214 NML		
144	84.8	24	12...28	38	5.1	□	3.1	2450	-20...+70	70000/35000	3	4214 NGM		
144	84.8	24	12...28	38	5.1	■	2.6	2450	-20...+70	70000/35000	3	4214 NM		
165	97.1	24	12...28	42	5.4	□	4.3	2750	-20...+70	60000/30000	4	4214 NGN	59	
165	97.1	24	12...28	42	5.4	■	3.6	2750	-20...+70	60000/30000	4	4214 NN		
180	105.9	24	12...28	45	5.7	■	4.8	3050	-20...+70	60000/30000	5	4214 NH	59	
205	120.7	24	12...28	49	6.1	■	7.5	3500	-20...+70	50000/25000	6	4214 NHH		
165	97.1	48	36...56	42	5.4	□	4.0	2750	-20...+70	60000/30000	4	4218 NGN	59	
165	97.1	48	36...56	42	5.4	■	3.6	2750	-20...+70	60000/30000	4	4218 NN		
180	105.9	48	36...56	45	5.7	■	4.8	3050	-20...+70	60000/30000	5	4218 NH		





- 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 for screw M4.
- Air intake over struts. Rotational direction CW looking at rotor.
- Electrical connection via 2 flat pins 2,8 x 0,5 mm.
- Mass 390 g.

Series 4100N 119 x 119 x 38 mm

Air flow		Nominal Voltage		Noise		Sinter-Sleeve Bearings		Nominal Speed		Temperature Range		Service Life L ₁₀		Curve	Type	Specials
m ³ /h	CFM	V DC	V DC	dB(A)	bels	□/■	Watt	min ⁻¹	°C	Hours	Hours	at t _{max}			Page	
160	94.2	12	7...15	44	5.3	□	3.5	2800	-10...+75	85 000 / 37 500		1	4182 NGX			
180	105.9	12	7...15	49	5.7	■	4.5	3200	-30...+75	85 000 / 37 500		2	4182 NX	60		
160	94.2	24	12...30	44	5.3	□	3.5	2800	-10...+75	85 000 / 37 500		1	4184 NGX			
180	105.9	24	12...29	49	5.7	■	4.5	3200	-30...+75	85 000 / 37 500		2	4184 NX	59		
237	139.5	24	12...25	59	6.5	■	11	4400	-30...+55	70 000 / 50 000		3	4184 NXH	59		
160	94.2	48	36...56	44	5.3	■	3.5	2800	-30...+75	85 000 / 37 500		1	4188 NXM			
Programmable fan Vario-Pro (electr. connection via leads)																
270	158.9	12	11...13	64	7.0	■	15.5	5000	-20...+50	70 000 / 55 000		4	4112 NHH	68		

⊕ 48V Type with grounding screw M4 x 8 (Torx).

