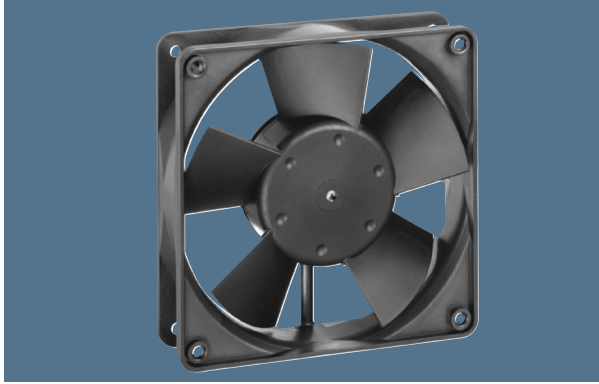


max. 204 m³/h

DC axial fans

Series 4300 119 x 119 x 32 mm



Highlights:

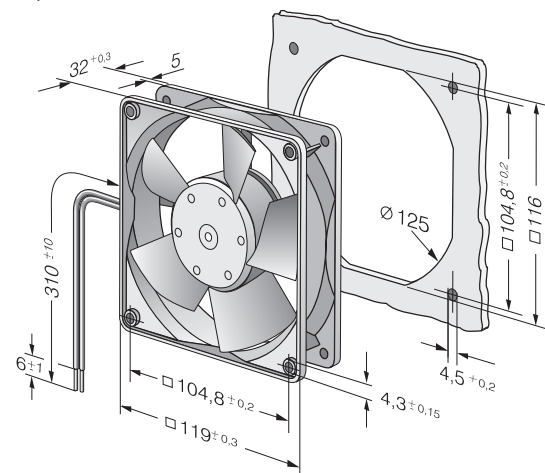
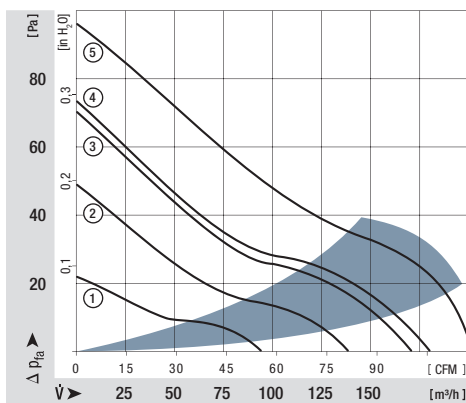
- Ball bearings and sleeve bearings available.
- Optional Vario-Pro: Highly adaptable software configuration of the fan enables a tailor-made solution to the specific requirements of your applications

General characteristics:

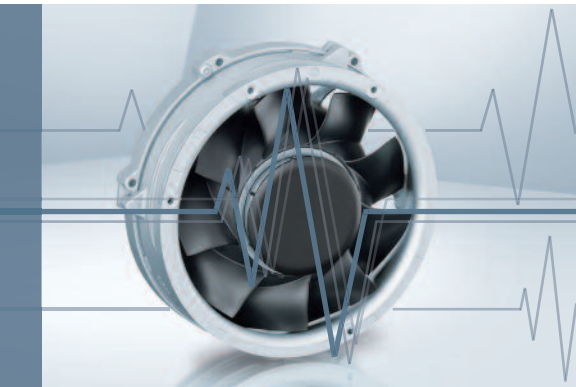
- Material: fibreglass-reinforced plastic. Impeller PA, housing PBT.
- Fully integrated electronic commutation.
- Protected against reverse polarity and locking.
- Connection via single strands AWG 22, TR 64. Bared and tin-plated.
- Air exhaust over struts. Direction of rotation clockwise, seen on rotor.
- Mass: 220 g.

Nominal data	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													
4312 GL	95	55,9	12	6...15	30	4,3	■	1,2	1 550	-20...+75	80 000 / 35 000	157 500	1		
4312 L	95	55,9	12	6...15	30	4,3	■	1,2	1 550	-20...+75	80 000 / 35 000	157 500	1		
4312 GM	140	82,4	12	6...15	39	5,3	■	2,6	2 300	-20...+75	70 000 / 30 000	135 000	2		
4312 M	140	82,4	12	6...15	39	5,3	■	2,6	2 300	-20...+75	70 000 / 30 000	135 000	2	/12	
4312 G	170	100,1	12	6...15	45	5,8	■	5,0	2 800	-20...+75	62 500 / 27 500	122 500	3		
4312	170	100,1	12	6...15	45	5,8	■	5,0	2 800	-20...+75	62 500 / 27 500	122 500	3	/2/19	
4312-179	204	120,1	12	6...13,2	51	6,4	■	8,5	3 400	-20...+75	47 500 / 20 000	90 000	5		
4314 L	95	55,9	24	12...28	30	4,3	■	1,2	1 550	-20...+75	80 000 / 35 000	157 500	1		
4314 M	140	82,4	24	12...28	39	5,3	■	2,6	2 300	-20...+75	70 000 / 30 000	135 000	2		
4314 G	170	100,1	24	12...28	45	5,8	■	5,0	2 800	-20...+75	62 500 / 27 500	122 500	3		
4314	170	100,1	24	12...28	45	5,8	■	5,0	2 800	-20...+75	62 500 / 27 500	112 500	3	/2/12	
4314-147	180	105,9	24	12...28	47	6,1	■	5,8	3 000	-20...+75	57 500 / 25 000	112 500	4		
4314-180	204	120,1	24	12...26,5	51	6,4	■	9,5	3 400	-20...+75	45 000 / 20 000	90 000	5		
4318 M	140	82,4	48	36...56	39	5,3	■	3,5	2 300	-20...+75	70 000 / 30 000	135 000	2		
4318	170	100,1	48	36...53	45	5,8	■	5,0	2 800	-20...+75	62 500 / 27 500	112 500	3	/2/17	

Rotor protrusion max. 0,4 mm.

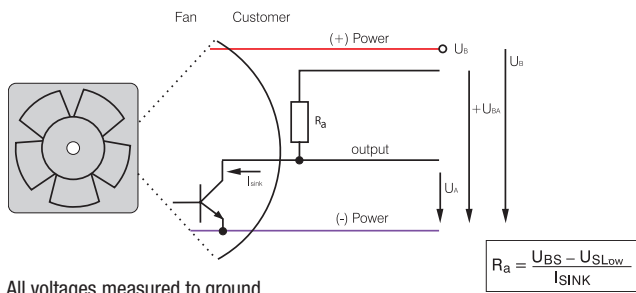


Speed signal /2



- 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.

Electrical hookup

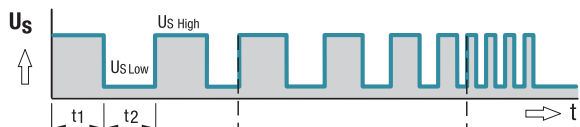


All voltages measured to ground.
External load resistor $R_a / U_S / U_{BS}$ required.

$$R_a = \frac{U_{BS} - U_{S\text{Low}}}{I_{\text{SINK}}}$$

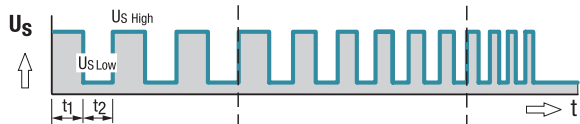
Signal output voltage

Standard signal for all models (exceptions see below)



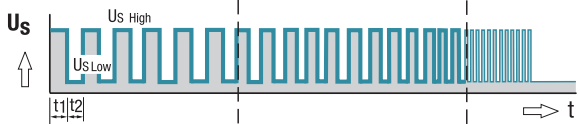
Signal frequency $[F] = 3 \times n / 60\text{Hz}$

For multi options control input and 4100 NH7 and NH8



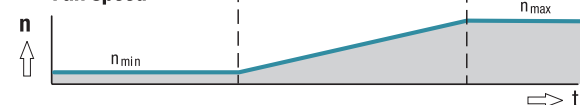
Signal frequency $[F] = 3 \times n / 60\text{Hz}$

All TD Fans e.g. 6300 TD



Signal frequency $[F] = 6 \times n / 60\text{Hz}$

Fan speed



Signal data	Speed signal $U_{S\text{Low}}$	Condition: I_{sink}	Speed signal $U_{S\text{High}}$	Condition: I_{source}	Tach operating voltage $U_{BS\text{max}}$	Admissible sink current $I_{\text{sink max}}$	Pulses per revolution	Fan description Basic type
Type	VDC	mA	VDC	mA	VDC	mA	Page	
250	≤ 0.4	2	≤ 30	0	30	2	2	31
400 F	≤ 0.4	1	≤ 30	0	30	2	2	32
400	≤ 0.4	1	≤ 30	0	30	2	2	33
420 J	≤ 0.4	2	≤ 15	0	15	4	2	34
500 F	≤ 0.4	1	≤ 30	0	30	2	2	35
600 F	≤ 0.4	1	≤ 30	0	30	2	2	36
620	≤ 0.4	2	≤ 30	0	30	4	2	37
630 U	≤ 0.4	2	≤ 30	0	30	4	2	38
600 N	≤ 0.4	2	≤ 28	0	28	4	2	39
600 J	≤ 0.4	2	≤ 30	0	30	4	2	41
700 F	≤ 0.4	2	≤ 30	0	30	4	2	42
8450	≤ 0.4	2	≤ 28	0	28	4	2	43
8400 N	≤ 0.4	2	≤ 28	0	28	4	2	44
8400 N VARIOFAN	≤ 0.4	2	≤ 30	0	30	4	2	45
8300	≤ 0.4	2	≤ 30	0	30	4	2	46
8200 J	≤ 0.4	2	≤ 30	0	30	4	2	47
3400 N	≤ 0.4	2	≤ 28	0	28	4	2	48
3400 N VARIOFAN	≤ 0.4	2	≤ 30	0	30	4	2	49
3300 N	≤ 0.4	2	≤ 30	0	30	4	2	50
3212 J / 3214 J	≤ 0.4	2	≤ 30	0	30	4	2	51
3218 J	≤ 0.4	2	≤ 60	0	60	4	2	51
3250 J	≤ 0.4	2	≤ 60	0	60	4	3	52
4412 F / 4414 F	≤ 0.4	2	≤ 30	0	30	4	2	53
4418 F	≤ 0.4	2	≤ 60	0	60	4	2	53
4400 FN	≤ 0.4	2	≤ 30	0	30	4	2	55
4312 / 4314	≤ 0.4	2	≤ 30	0	30	4	2	56
4318	≤ 0.4	2	≤ 60	0	60	4	2	56
4312 / 4314 VARIOFAN	≤ 0.4	2	≤ 30	0	30	4	2	57
4318 VARIOFAN	≤ 0.4	2	≤ 60	0	60	4	2	57
4400	≤ 0.4	2	≤ 30	0	30	4	2	58/59
4100 N	≤ 0.4	2	≤ 30	0	30	4	2	60
4100 NHH...NH6	≤ 0.4	2	≤ 60	0	60	10	2	61
4100 NH7...NH8	≤ 0.4	2	≤ 60	0	60	20	3	62
DV 4100	≤ 0.4	2	≤ 30	0	30	4	2	63
5200 N	≤ 0.4	2	≤ 30	0	30	4	2	64
DV 5200	≤ 0.4	2	≤ 30	0	30	4	2	65

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.

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