Max. 204 m³/h

DC axial fans

☐ 119 x 32 mm

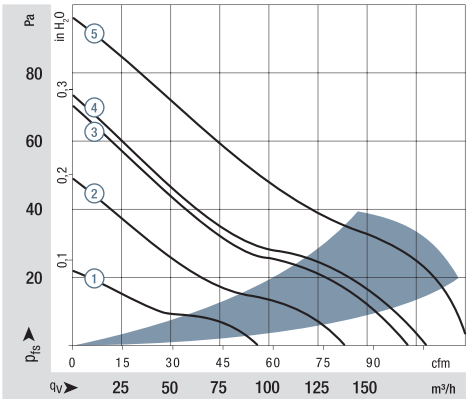
- **Material:** Housing: GRP[1] (PBT)
  Impeller: GRP[1] (PA)
- **Direction of air flow:** Exhaust over struts
- **Direction of rotation:** Clockwise, looking towards rotor
- **Connection:** Via single wires AWG 22, TR 64
- **Highlights:** Ball bearings and sleeve bearings available
- **Weight:** 220 g

- **Possible special versions:**
  (See chapter DC fans - specials)
  - Speed signal
  - Go / NoGo alarm
  - Alarm with speed limit
  - External temperature sensor
  - Internal temperature sensor
  - PWM control input
  - Analog control input
  - Moisture protection
  - Salt spray protection
  - Degree of protection: IP 54 / IP 68

1) Fiberglass-reinforced plastic

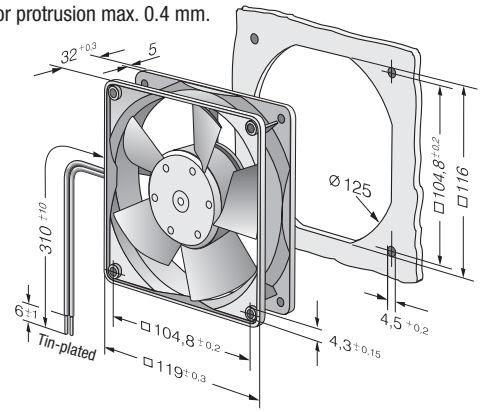
Series 4300 **Nominal data**	Air flow	Air flow	**Nominal voltage**	Voltage range	Sound pressure level	Sound power level	Sintec sleeve bearings / Ball bearings	Power consumption	Nominal speed	Temperature range	Service life L_{10} (40 °C) ebm-papst standard / Service life L_{10} (T_{max}) ebm-papst standard	Life expectancy L_{10IPC} (40 °C) see page 17	Curve
Type	**m³/h**	**cfm**	**VDC**	**VDC**	**dB(A)**	**Bel(A)**	□ / ■	**Watts**	**rpm⁻¹**	**°C**	**Hours**	**Hours**	
4312 GL	95	56	**12**	6...15	30	4.3	□	1.2	1 550	-20...+75	80 000 / 35 000	135 000	①
4312 L	95	56	**12**	6...15	30	4.3	■	1.2	1 550	-20...+75	80 000 / 35 000	135 000	①
4312 GM	140	82	**12**	6...15	39	5.3	□	3.1	2 300	-20...+75	70 000 / 30 000	117 500	②
4312 M	140	82	**12**	6...15	39	5.3	■	3.1	2 300	-20...+75	70 000 / 30 000	117 500	②
4312 G	170	100	**12**	6...15	45	5.8	□	5.0	2 800	-20...+70	62 500 / 30 000	105 000	③
4312	170	100	**12**	6...15	45	5.8	■	5.0	2 800	-20...+70	62 500 / 30 000	105 000	③
4312-179	204	120	**12**	6...13.2	51	6.4	■	9.4	3 400	-20...+65	47 500 / 27 500	80 000	⑤
4314 L	95	56	**24**	12...28	30	4.3	■	1.2	1 550	-20...+75	80 000 / 35 000	135 000	①
4314 M	140	82	**24**	12...28	39	5.3	■	2.8	2 300	-20...+75	70 000 / 30 000	117 500	②
4314 G	170	100	**24**	12...28	45	5.8	□	4.7	2 800	-20...+75	62 500 / 27 500	105 000	③
4314	170	100	**24**	12...28	45	5.8	■	5.0	2 800	-20...+75	62 500 / 27 500	105 000	③
4314-147	180	106	**24**	12...28	47	6.1	■	4.7	3 000	-20...+75	57 500 / 25 000	80 000	④
4314-180	204	120	**24**	12...26	51	6.4	■	8.5	3 400	-20...+70	45 000 / 22 500	75 000	⑤
4318 M	140	82	**48**	36...56	39	5.3	■	3.6	2 300	-20...+75	70 000 / 30 000	117 500	②
4318	170	100	**48**	36...53	45	5.8	■	5.1	2 800	-20...+75	62 500 / 27 500	105 000	③

Subject to change



Air performance measured according to: ISO 5801.
Installation category A, without contact protection.
Noise: Total sound power level L_{WA} ISO 103002 measured on a hemisphere with a radius of 2 m.
Sound pressure level L_{pA} measured at 1 m distance from fan axis.
The values given are applicable only under the specified measuring conditions and may differ depending on the installation conditions.
In the event of deviation from the standard configuration, the parameters must be checked after installation!
For detailed information see
http://www.ebmpapst.com/general conditions

Rotor protrusion max. 0.4 mm.



Finger guards from p. 242

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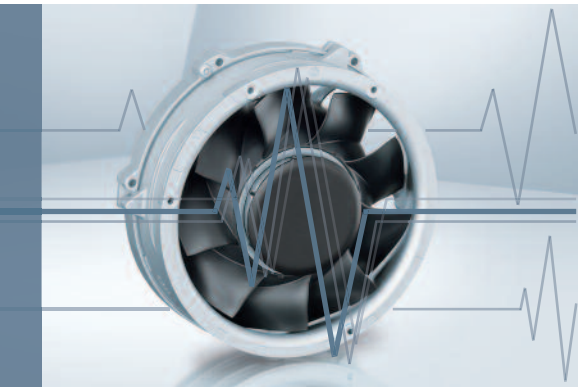
Alarm signal /19



- Alarm signal for speed monitoring
- Signal output via open collector
- The fan emits a continuous low signal during trouble-free operation within the permissible voltage range.
- High signal when speed limit is not reached
- After elimination of the fault, the fan returns to its setpoint speed; the alarm signal reverts to low.

Alarm signal data	Alarm output voltage U_A Low	Condition:	Condition: I_{sink} =	Alarm output voltage U_A High	Condition:	Condition: I_{source}	Alarm operating voltage U_{BA} max.	Max. permissible sink current	Alarm startup delay time t_6	Condition:	Speed limit n_G	Fan description Basic type
Type	**VDC**		**mA**	**VDC**		**mA**	**VDC**	**mA**	**s**		**min^{-1}**	**Page**
8314/19 H	≤ 0.4	$n > n_G$	2	≤ 60	$n < n_G$	0	60	20	≤ 15	*	1500 ± 100	46
4312/19	≤ 0.4	$n > n_G$	2	≤ 60	$n < n_G$	0	60	20	≤ 15	*	1500 ± 100	56
7214 N/19	≤ 0.4	$n > n_G$	2	≤ 60	$n < n_G$	0	60	10	≤ 15	*	1800 ± 20	70
RLF 100-11/14/19	≤ 0.4	$n > n_G$	2	≤ 28	$n < n_G$	0	28	10	≤ 15	*	1900 ± 100	100
RER 101-36/18N/19 HH	≤ 0.4	$n > n_G$	2	≤ 28	$n < n_G$	0	28	10	≤ 15	*	1900 ± 100	111

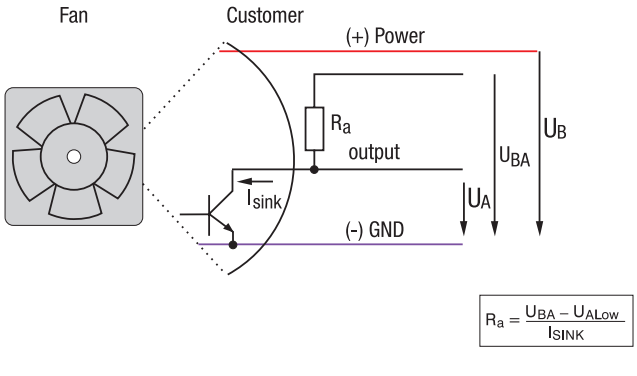
Subject to change

* After switching on U_B

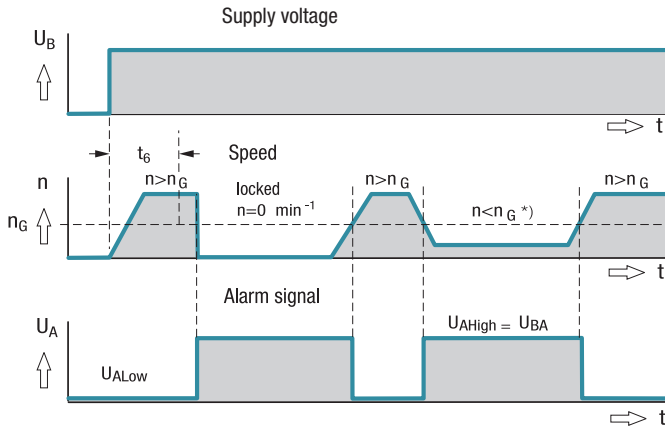
Note:
Fans that come with these fan specials could have variations with respect to the temperature range, voltage range, and power consumption compared to standard fans without specials.

Available on request:
- Integrated signal storage for subsequent recognition of short-term faults (latch).
- Alarm circuit open collector or TTL.
- Electrically isolated for maximum device safety; Defects in the power circuit do not affect the alarm circuit.

Electrical hookup



All voltages measured to ground
External load resistor R_a from U_A to U_{BA} required.



t_6 = Alarm signal suppression during startup.
* n < speed limit n_G by braking or locking.

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