

Max. 204 m<sup>3</sup>/h

## DC axial fans

□ 119 x 32 mm



- **Material:** Housing: GRP<sup>1)</sup> (PBT)  
Impeller: GRP<sup>1)</sup> (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

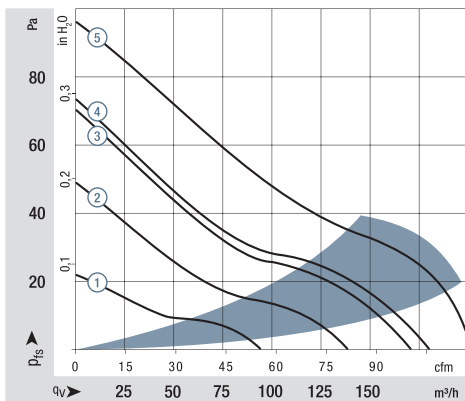
1) Fiberglass-reinforced plastic

Series 4300

Nominal data

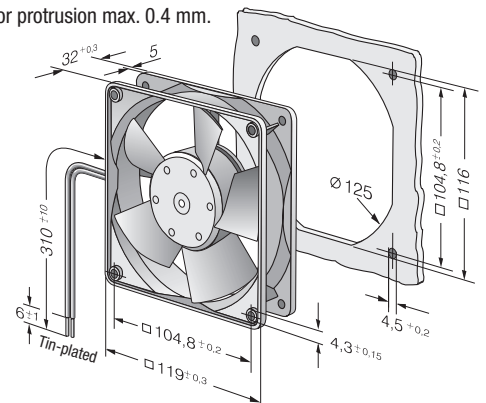
Type	Air flow		Nominal voltage		Sound pressure level		Sinter sleeve bearings Ball bearings	Power consumption	Nominal speed	Temperature range	Service life L <sub>10</sub> (40 °C) ebm-papst standard	Service life L <sub>10</sub> (T <sub>max</sub> ) ebm-papst standard	Life expectancy L <sub>10</sub> IPC (40 °C) see page 17	Curve
	m <sup>3</sup> /h	cfm	VDC	VDC	dB(A)	Bel(A)								
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

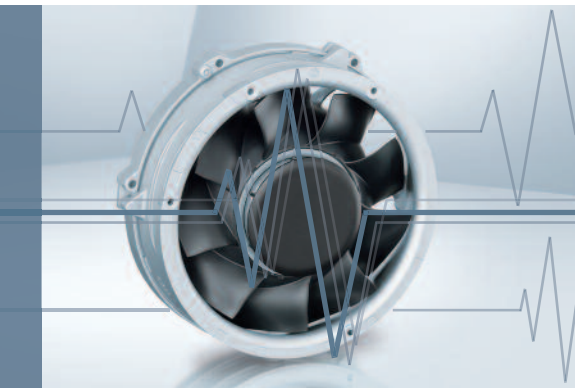


Air performance measured according to: ISO 5801.  
Installation category A, without contact protection.  
Noise: Total sound power level L<sub>WA</sub> ISO 103002 measured on a hemisphere with a radius of 2 m.  
Sound pressure level L<sub>pA</sub> measured at 1 m distance from fan axis.  
The values 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.

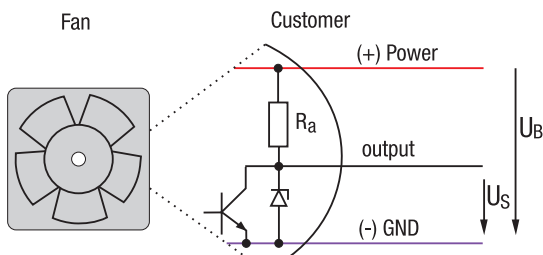


# Speed signal /12



- Speed-proportional, square-wave signal for external monitoring of the fan motor speed
- 2, 3, or 6 pulses per revolution
- TTL-compatible
- Integrated pull-up resistor
- 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.

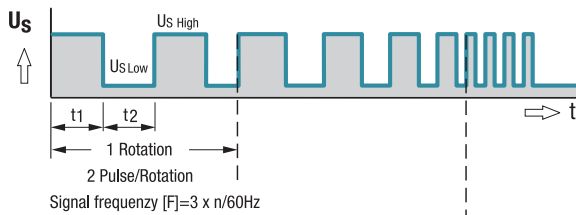
## Electrical hookup



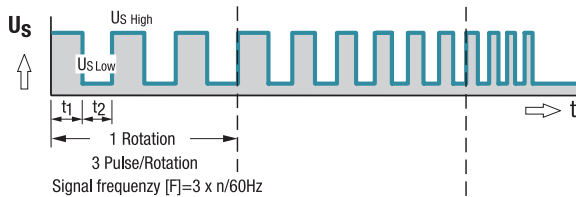
All voltages measured to ground.

## Signal output voltage

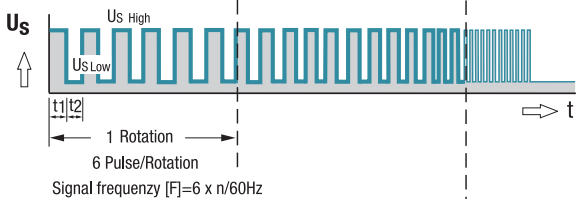
Standard signal for all models (exceptions see below)



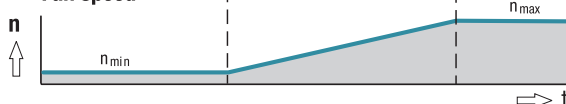
For multi options control input and 4100 NH7 and NH8



All TD Fans e.g. 6300 TD



## Fan speed



Signal data	Speed signal $U_{S\text{Low}}$	Condition: $I_{\text{sink}}$	Speed signal $U_{S\text{High}}$	Condition: $I_{\text{source}}$	Admissible sink current $I_{\text{sink max}}$	Fan description Basic type
Type	VDC	mA	VDC	mA	mA	Page
614 N/12 GM	$\leq 0.4$	1	2.5–5.5	1	1	39
618 N/12 N	$\leq 0.4$	1	2.5–5.5	1	1	39
8412 N/12 H	$\leq 0.4$	1	2.5–5.5	1	1	44
4412 F/12 GM	$\leq 0.4$	1	2.5–5.5	1	1	53
4418 F/12	$\leq 0.4$	1	2.5–5.5	1	1	53
4312 /12 M	$\leq 0.4$	1	2.5–5.5	1	1	56
4314 /12	$\leq 0.4$	1	2.5–5.5	1	1	56
4182 N/12 X	$\leq 0.4$	1	2.5–5.5	1	1	60

Subject to change

## Note:

With these fan options, deviations in regard to temperature range, voltage range and power consumption are possible compared with standard fan data.

**Available on request:**

- Electrically isolated speed signal circuit
- Varying voltage potentials for power and logic circuit

Signal data	Speed signal U <sub>S</sub> Low	Condition: I <sub>sink</sub>	Speed signal U <sub>S</sub> High	Condition: I <sub>source</sub>	Admissible sink current I <sub>sink</sub> max.	Fan description Basic type
Type	VDC	mA	VDC	mA	mA	Page
7214 N/12	≤0.4	2	2.5–5.5	1	≤20	70
6424/12 H	≤0.4	2	2.5–5.5	1	≤20	71
DV 6424/12	≤0.4	2	4.5–5.25	2	≤12	73
DV 6448/12	≤0.4	2	4.5–5.25	2	≤12	73
RG 125-19/12 N/12	≤0.4	1	2.5–5.5	1	≤1	103
RG 160-28/12 N/12	≤0.4	2	2.5–5.5	1	≤5	104
RG 160-28/18 N/12	≤0.4	2	2.5–5.5	1	≤20	104
RER 125-19/12 N/12	≤0.4	1	2.5–5.5	1	≤1	116
RER 160-28/12 N/12	≤0.4	2	2.5–5.5	1	≤5	118
RER 160-28/18 N/12	≤0.4	2	2.5–5.5	1	≤20	118

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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