

Max. 170 m³/h

DC axial fans

□ 119 x 32 mm



- Material: Housing: GRP¹⁾ (PBT)
Impeller: GRP¹⁾ (PA)
 - Direction of air flow: Exhaust over struts
 - Direction of rotation: Clockwise,
looking towards rotor
 - Connection: Via single wires AWG 22,
TR 64
 - Highlights: Speed automatically adjusted
to cooling requirement
 - 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

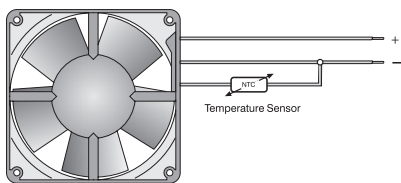
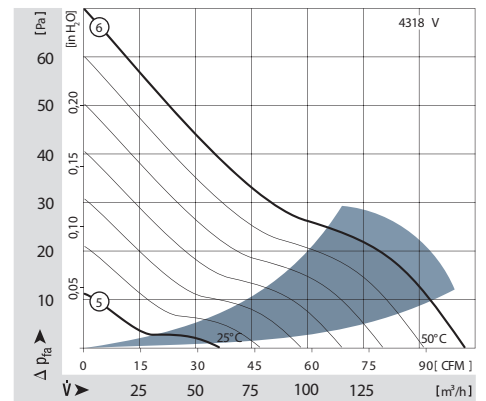
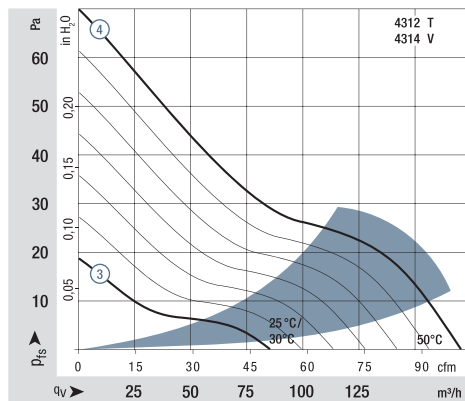
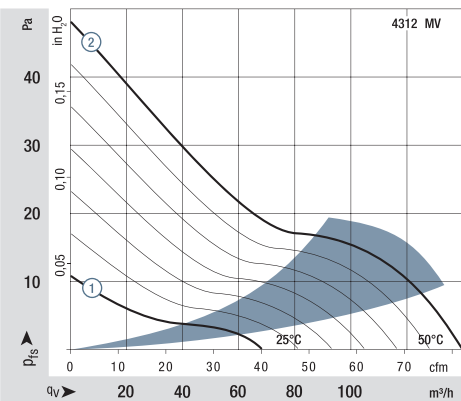
1) Fiberglass-reinforced plastic

Series 4300 VARIOFAN

Nominal data

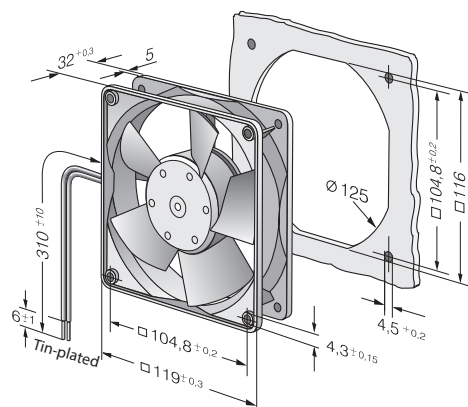
Type	Air flow		Nominal voltage	Voltage range	Sound pressure level	Sound power level	Sinter sleeve bearings Ball bearings	Power consumption	Nominal speed	Temperature range	Service life t_0 (40 °C) ebm-papst standard	Service life t_0 (T _{max}) ebm-papst standard	Life expectancy $L_{10\Delta}$ (40 °C) see P. 15	Curve
	m ³ /h	cfm												
25°C 50°C	4312 MT	65	38	12	8...15	25	3.9	■	1.1	1 100	-20...+65	70 000 / 40 000	117 500	① ②
		138	81											
25°C 50°C	4312 T	85	50	12	8...13.2	29	4.2	■	1.7	1 400	-20...+65	65 000 / 35 000	110 000	③ ④
		170	100											
30°C 50°C	4314 T	85	50	24	18...32	29	4.2	■	1.6	1 400	-20...+65	65 000 / 35 000	110 000	③ ④
		170	100											
30°C 50°C	4318 V	61	36	48	40...53	21	-	■	2.6	1 000	-20...+65	65 000 / 35 000	110 000	⑤ ⑥
		170	100											

Subject to change

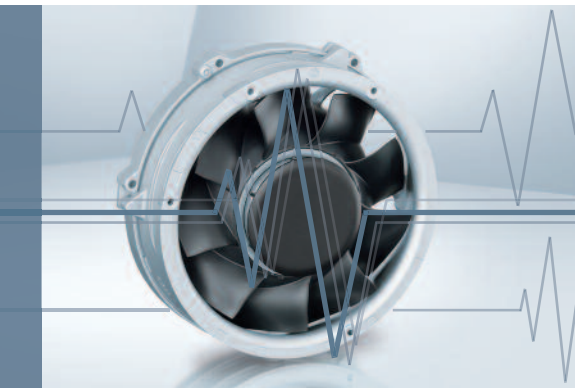


The temperature sensor for controlling the motor speed is not included in the scope of delivery. For the temperature sensor LZ 370, see accessories.

Rotor protrusion max. 0.4 mm.



Alarm signal /17



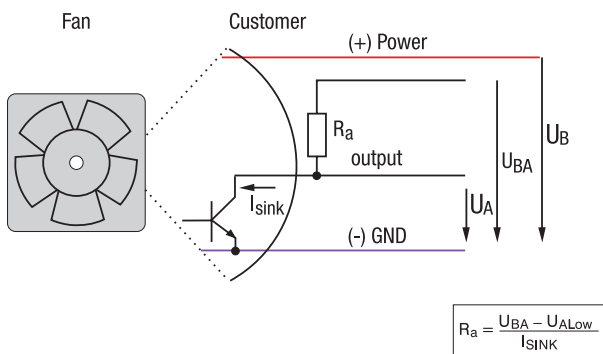
- Alarm signal for speed monitoring
- Signal output via open collector
- The fan emits a continuous high signal during trouble-free operation within the permissible voltage range.
- Low signal when speed limit is not reached
- After elimination of the fault, the fan returns to its setpoint speed; the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

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_G	Condition:	Speed limit n_G	Fan description Basic type
Type	VDC	mA	VDC	mA	VDC	mA	VDC	mA	s	min^{-1}	Page		
8318 /17	≤ 0.4	$n < n_G$	2	≤ 60	$n > n_G$	0	60	20	≤ 15	*	1500 ± 100	46	
8318 /17 H	≤ 0.4	$n < n_G$	2	≤ 60	$n > n_G$	0	60	20	≤ 15	*	1500 ± 100	46	
4318 /17	≤ 0.4	$n < n_G$	2	≤ 60	$n > n_G$	0	60	20	≤ 15	*	850 ± 100	56	
4184 N /17 X	≤ 0.4	$n < n_G$	2	≤ 60	$n > n_G$	0	60	20	≤ 15	*	1500 ± 100	60	

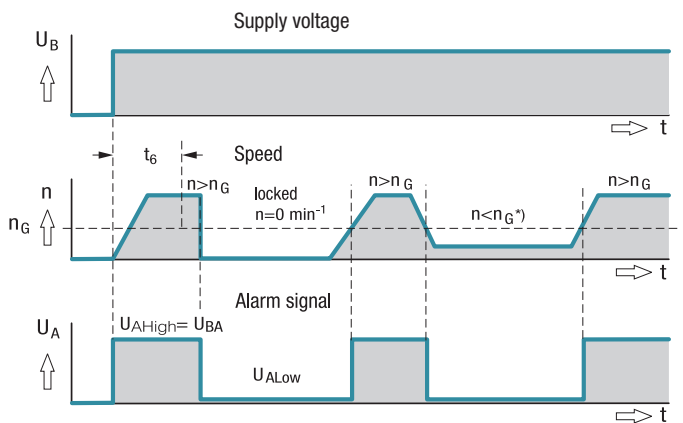
Subject to change

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.

Electrical hookup



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



t_G = Alarm signal suppression during startup.
* $n < n_G$ by braking or locking.

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.

Alarm signal data	Alarm output voltage U_A Low	Condition:	Condition: $I_{\text{sink}} =$	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_G	Condition:	Speed limit n_G	Fan description Basic type
Type	VDC		mA	VDC		mA	VDC	mA	s		min^{-1}	Page
4312/17 MT VARIOFAN	≤ 0.4	$n < n_G$	2	≤ 60	$n > n_G$	0	60	20	≤ 15	*	1500 ± 100	57
4312/17 T VARIOFAN	≤ 0.4	$n < n_G$	2	≤ 60	$n > n_G$	0	60	20	≤ 15	*	1500 ± 100	57
4314/17 T VARIOFAN	≤ 0.4	$n < n_G$	2	≤ 60	$n > n_G$	0	60	20	≤ 15	*	1150 ± 100	57
4318/17 T VARIOFAN	≤ 0.4	$n < n_G$	2	≤ 60	$n > n_G$	0	60	20	≤ 15	*	850 ± 100	57
7214 N/17	≤ 0.4	$n < n_G$	2	≤ 60	$n > n_G$	0	60	15	≤ 15	*	1330 ± 60	70
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.