

Max. 80 m<sup>3</sup>/h

# DC axial fans

□ 80 x 32 mm



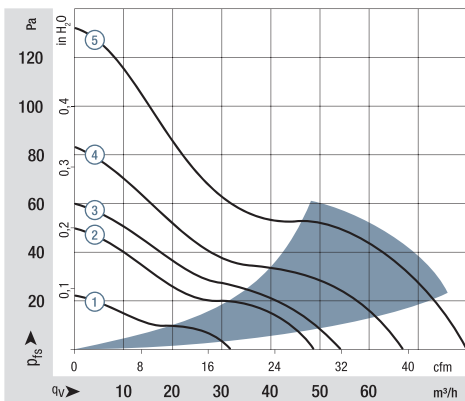
- **Material:** Housing: GRP<sup>1)</sup> (PBT)  
Impeller: GRP<sup>1)</sup> (PA)
- **Direction of air flow:** Exhaust over struts
- **Direction of rotation:** Clockwise, looking towards rotor
- **Connection:** Via single wires AWG 22, TR 64
- **Weight:** 170 g

- **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

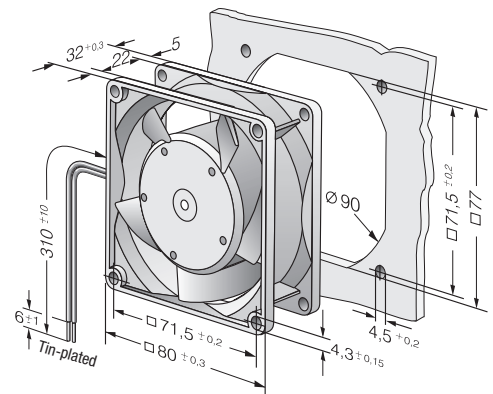
Series 8300																										
Nominal data	Air flow		Nominal voltage		Voltage range		Sound pressure level		Sound power level		Sinter sleeve bearings Ball bearings		Power consumption		Nominal speed		Temperature range		Service life L <sub>10</sub> (40 °C) ebm-papst standard		Service life L <sub>10</sub> (T <sub>max</sub> ) ebm-papst standard		Life expectancy L <sub>10</sub> (IPC (40 °C) see page 17		Curve	
	Type	m <sup>3</sup> /h	cfm	VDC	VDC	dB(A)	Bel(A)	□ / ■	Watts	rpm <sup>1</sup>	°C	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours
8312 L	32	18.8	12	6...15	24	4.0	■	1.2	2 000	-20...+75	80 000 / 32 500	135 000	①													
8312 M	48	28.3	12	6...15	34	5.0	■	2.2	3 000	-20...+75	70 000 / 27 500	117 500	②													
8312	54	31.8	12	6...15	36	5.2	■	2.6	3 300	-20...+75	70 000 / 27 500	117 500	③													
8312 HL	67	39.4	12	6...15	43	5.8	■	4.0	4 200	-20...+75	62 500 / 25 000	105 000	④													
8312 H	80	47.1	12	6...12.6	48	6.2	■	6.4	5 000	-20...+60	55 000 / 35 000	92 500	⑤													
8314 L	32	18.8	24	12...31.5	24	4.0	■	1.0	2 000	-20...+75	80 000 / 32 500	135 000	①													
8314 M	48	28.3	24	12...31.5	34	5.0	■	2.3	3 000	-20...+75	70 000 / 27 500	117 500	②													
8314	54	31.8	24	12...31.5	36	5.2	■	2.7	3 300	-20...+75	70 000 / 27 500	117 500	③													
8314 HL	67	39.4	24	12...31.5	43	5.8	■	4.3	4 200	-20...+75	62 500 / 25 000	105 000	④													
8314 H	80	47.1	24	12...28	48	6.2	■	6.0	5 000	-20...+75	55 000 / 20 000	92 500	⑤													
8318	54	31.8	48	36...60	36	5.2	■	3.0	3 300	-20...+75	70 000 / 27 500	117 500	③													
8318 HL	67	39.4	48	36...60	43	5.8	■	4.2	4 200	-20...+75	62 500 / 25 000	105 000	④													
8318 H	80	47.1	48	36...60	48	6.2	■	6.2	5 000	-20...+65	55 000 / 30 000	92 500	⑤													

Subject to change

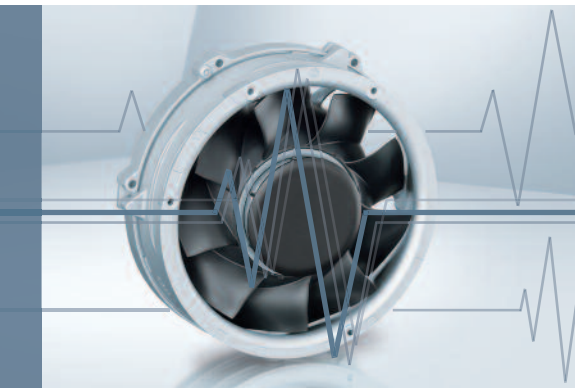


Air performance measured according to: ISO 5801.  
Installation category A, without contact protection.  
Noise: Total sound power level L<sub>WA</sub> ISO 103002 measured on a hemisphere with a radius of 2 m.  
Sound pressure level L<sub>pA</sub> measured at 1 m distance from fan axis.  
The values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



# 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 $t_G$	Condition:	Speed limit $n_G$	Fan description Basic type
Type	VDC	mA	VDC	mA	VDC	mA	VDC	mA	s	$min^{-1}$	Page		
8314/19 H	$\leq 0.4$	$n > n_G$	2	$\leq 60$	$n < n_G$	0	60	20	$\leq 15$	*	$1500 \pm 100$	46	
4312/19	$\leq 0.4$	$n > n_G$	2	$\leq 60$	$n < n_G$	0	60	20	$\leq 15$	*	$1500 \pm 100$	56	
7214 N/19	$\leq 0.4$	$n > n_G$	2	$\leq 60$	$n < n_G$	0	60	10	$\leq 15$	*	$1800 \pm 20$	70	
RLF 100-11/14/19	$\leq 0.4$	$n > n_G$	2	$\leq 28$	$n < n_G$	0	28	10	$\leq 15$	*	$1900 \pm 100$	100	
RER 101-36/18N/19 HH	$\leq 0.4$	$n > n_G$	2	$\leq 28$	$n < n_G$	0	28	10	$\leq 15$	*	$1900 \pm 100$	111	

Subject to change \* After switching on  $U_B$

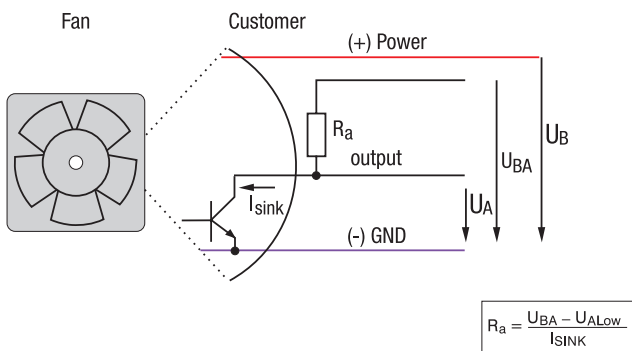
### Note:

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.

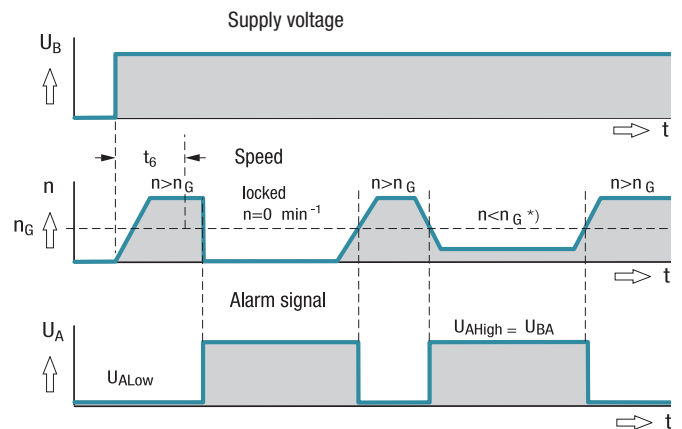
### Available on request:

- 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.



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