

Max. 102 m³/h

DC axial fans

□ 92 x 25 mm



- **Material:** Housing: GRP¹⁾ (PBT)
Impeller: GRP¹⁾ (PA)
- **Direction of air flow:** Exhaust over struts
- **Direction of rotation:** Counterclockwise, looking towards rotor
- **Connection:** Via single wires AWG 24, TR 64
- **Weight:** 100 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
 - Degree of protection: IP 54 / IP 68

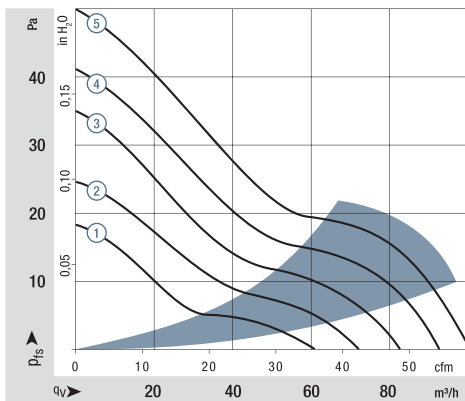
1) Fiberglass-reinforced plastic

Series 3400 N

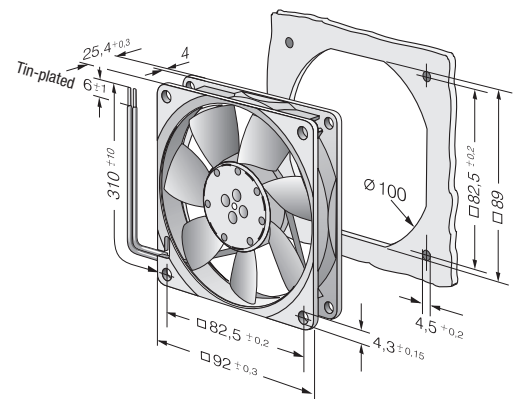
Nominal data

Type	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 ₁₀ IPC (40 °C) see page 17	Curve
	m ³ /h	cfm	VDC	VDC	dB(A)	Bel(A)										
3412 NGL	61	35.9	12	8...15	23	4.0	■	1.1	1 950	-20...+80	80 000 / 22 500	135 000	①			
3412 NLE	61	35.9	12	8...15	23	4.0	■	0.8	1 950	-20...+85	80 000 / 17 500	135 000	①			
3412 NGME	72	42.4	12	8...15	28	4.3	■	1.6	2 300	-20...+75	75 000 / 27 500	127 500	②			
3412 NME	72	42.4	12	8...15	28	4.3	■	1.1	2 300	-20...+75	75 000 / 27 500	127 500	②			
3412 NG	84	49.4	12	8...15	32	4.7	■	1.9	2 700	-20...+70	70 000 / 35 000	117 500	③			
3412 N	84	49.4	12	8...15	32	4.7	■	1.7	2 700	-20...+70	70 000 / 35 000	117 500	③			
3412 NGH	94	55.3	12	8...15	36	5.0	■	2.3	3 000	-20...+70	70 000 / 35 000	117 500	④			
3412 NH	94	55.3	12	8...15	36	5.0	■	2.1	3 000	-20...+70	70 000 / 35 000	117 500	④			
3412 NGH	102	60.0	12	8...13.2	39	5.1	■	3.2	3 250	-20...+60	70 000 / 45 000	117 500	⑤			
3412 NHH	102	60.0	12	8...13.2	39	5.1	■	2.9	3 250	-20...+60	70 000 / 45 000	117 500	⑤			
3412 NHH-379	102	60.0	12	8...15	39	5.1	■	2.7	3 250	-20...+70	70 000 / 35 000	117 500	⑤			
3414 NGL	61	35.9	24	18...28	23	4.0	■	1.4	1 950	-20...+70	80 000 / 40 000	135 000	①			
3414 NL	61	35.9	24	18...28	23	4.0	■	1.1	1 950	-20...+70	80 000 / 40 000	135 000	①			
3414 NGM	72	42.4	24	18...28	28	4.3	■	1.7	2 300	-20...+70	75 000 / 37 500	127 500	②			
3414 NM	72	42.4	24	18...28	28	4.3	■	1.4	2 300	-20...+70	75 000 / 37 500	127 500	②			
3414 NG	84	49.4	24	18...28	32	4.7	■	2.5	2 700	-20...+70	70 000 / 35 000	117 500	③			
3414 N	84	49.4	24	18...28	32	4.7	■	2.1	2 700	-20...+70	70 000 / 35 000	117 500	③			
3414 NGH	94	55.3	24	18...26	36	5.0	■	3.0	3 000	-20...+70	70 000 / 35 000	117 500	④			
3414 NH	94	55.3	24	18...26	36	5.0	■	2.3	3 000	-20...+70	70 000 / 35 000	117 500	④			
3414 NGH	102	60.0	24	18...26	39	5.1	■	3.2	3 250	-20...+70	70 000 / 35 000	117 500	⑤			
3414 NGH-389	102	60.0	24	18...28	39	5.1	■	3.2	3 250	-20...+70	70 000 / 35 000	117 500	⑤			
3414 NHH	102	60.0	24	18...26	39	5.1	■	3.1	3 250	-20...+70	70 000 / 35 000	117 500	⑤			
3414 NHH-386	102	60.0	24	18...28	39	5.1	■	3.2	3 250	-20...+70	70 000 / 35 000	117 500	⑤			
3418 N	84	49.4	48	36...56	32	4.7	■	2.4	2 700	-20...+70	70 000 / 35 000	117 500	③			

Other 48 VDC models on request.

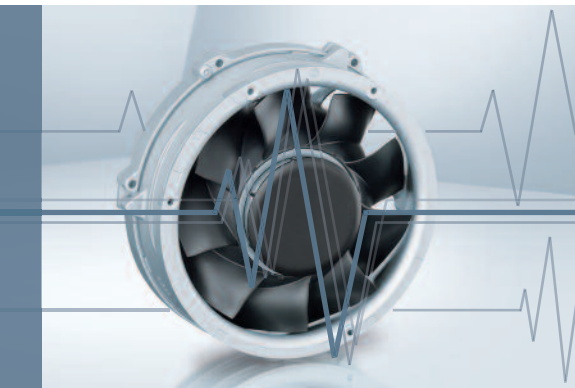


Air performance measured according to: ISO 5801.
Installation category A, without contact protection.
Noise: Total sound power level L_{WA} ISO 103002 measured on a hemisphere with a radius of 2 m.
Sound pressure level L_{PA} measured at 1 m distance from fan axis.
The values given are applicable only 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>



Alarm signal /39

Go / NoGo alarm



- 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			Alarm output voltage U_A High			Alarm operating voltage U_{BA} max.	Max. permissible Sink current I_{sink}	Alarm delay time t_d	Condition:	Speed limit n_G	Fan description Basic type
	Type	VDC	mA	VDC	mA	Condition: source						
412/39	≤ 0.5	$n > n_G$	2	≤ 28	$n = n_G$	0	28	10	< 1	*	0	33
612 F/39 H	≤ 0.5	$n > n_G$	2	≤ 28	$n = n_G$	0	28	10	< 1	*	0	36
614 N/39 M	≤ 0.5	$n > n_G$	2	≤ 28	$n = n_G$	0	28	10	< 1	*	0	39
618 N/39 N	≤ 0.5	$n > n_G$	2	≤ 28	$n = n_G$	0	28	10	< 1	*	0	39
3412 N/39 H	≤ 0.5	$n > n_G$	2	≤ 28	$n = n_G$	0	28	10	< 1	*	0	48
3414 N/39 HH	≤ 0.5	$n > n_G$	2	≤ 28	$n = n_G$	0	28	10	< 1	*	0	48
4412 F/39 GL	≤ 0.5	$n > n_G$	2	≤ 28	$n = n_G$	0	28	10	< 1	*	0	53
4412 F/39 M	≤ 0.5	$n > n_G$	2	≤ 28	$n = n_G$	0	28	10	< 1	*	0	53
4414 F/39	≤ 0.5	$n > n_G$	2	≤ 28	$n = n_G$	0	28	10	< 1	*	0	53
4414 FN/39 H	≤ 0.4	$n > n_G$	2	≤ 30	$n = n_G$	0	30	4	< 1	*	0	55

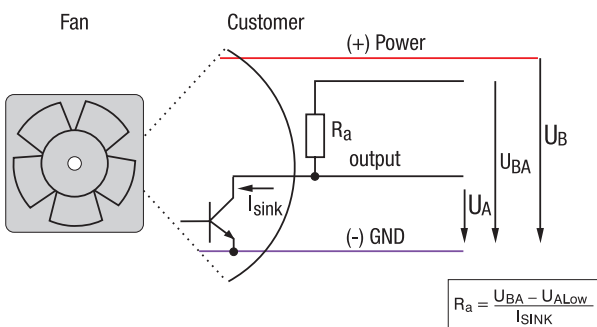
Subject to change

* After switching on U_B

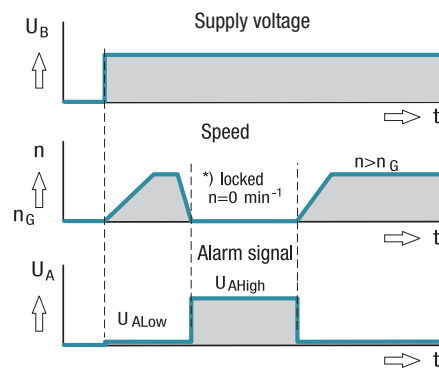
Note:

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.

Electrical hookup



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



* Speed limit $n_G = 0$ rpm