

DC Axial Fans

ebmpapst

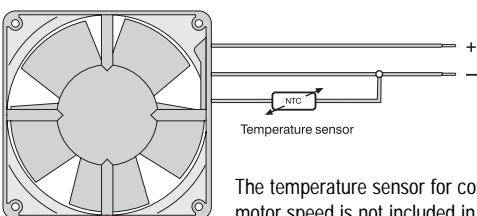
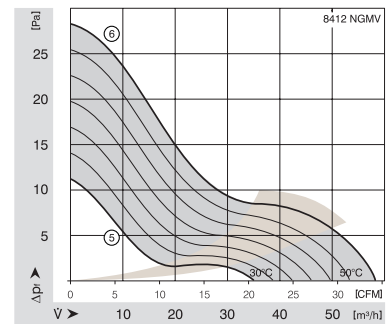
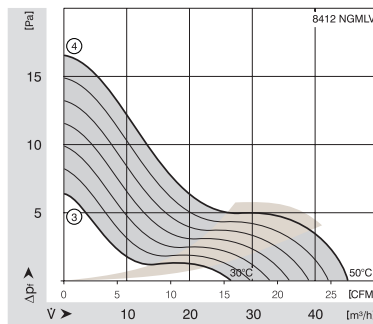
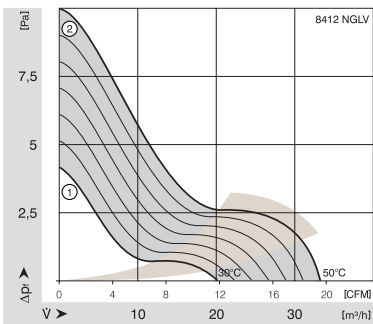
Series 8400 N VARIOFAN, Type 8412 NGMLV 80 x 80 x 25 mm



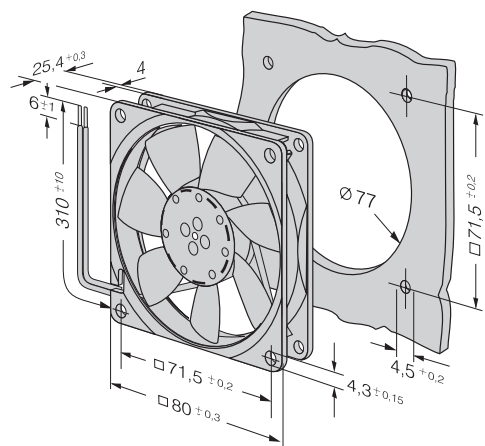
- DC fans with electronically commutated external rotor motor. Fully integrated commutation electronics.
- Speed control by temperature sensor.
- With electronic protection against reverse polarity, blocking and overloading; partially impedance protected.
- Fan of fiberglass reinforced plastic. PBTP housing, PA impeller.
- Air exhaust over struts. Rotational direction CCW looking at rotor.
- Electrical connection via leads AWG 24, TR 64. Stripped and tinned ends.
- Mass 95 g.

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Nominal Data		Air Flow	Air Flow	Nominal Voltage	Voltage Range	Noise	Sinter-Sleeve Bearings Ball Bearings	Power Input	Nominal Speed	Temperature Range	Service Life L10 at 40 °C	at t max	Curve
Type		m ³ /h	CFM	V DC	V DC	dB(A)	Bel	Watt	min ⁻¹	°C	Hours	Hours	
30°C 50°C	8412 NGLV	20	11.8	12	10...14	< 10	< 3	0.9	900	-20...+70	80 000 / 40 000		1
		33	19.4			12	3.5						1.1
30°C 50°C	8412 NGMLV	27	15.9	12	8...14	< 10	3.0	1.1	1 200	-20...+70	80 000 / 40 000		3
		45	26.5			19	3.9						1.5
30°C 50°C	8412 NGMV	35	20.6	12	8...14	< 13	3.5	1.4	1 600	-20...+70	80 000 / 35 000		5
		58	34.1			26	4.3						2.0



The temperature sensor for controlling the motor speed is not included in delivery. Temperature sensor LZ 370 see accessories.





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

Available on request:

- Alarm circuit TTL compatible

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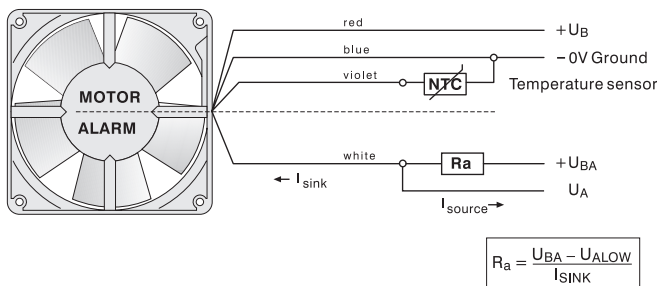
Alarm signal data	Alarm output voltage U_A Low			Alarm output voltage U_A High			Max. permissible sink current I_{sink}	Alarm delay time t_2	Condition:	Speed limit n_G	
	Condition:	Condition: $I_{sink} =$	Condition:	Condition: $I_{source} =$	Condition:	Condition:					
Type	V DC	mA	V DC	mA	V DC	mA	S	min ⁻¹			
612 N/37 GNV	≤ 0.4	n ≤ n _G	2	28	n > n _G	0	≤ 28	10	< 1	*	0
8412 N/37 GMLV	≤ 0.4	n ≤ n _G	2	28	n > n _G	0	≤ 28	10	< 1	*	0
3412 N/37 GMV	≤ 0.4	n ≤ n _G	2	28	n > n _G	0	≤ 28	10	< 1	*	0
3412 N/37 GV	≤ 0.4	n ≤ n _G	2	28	n > n _G	0	≤ 28	10	< 1	*	0

* After switching on U_B

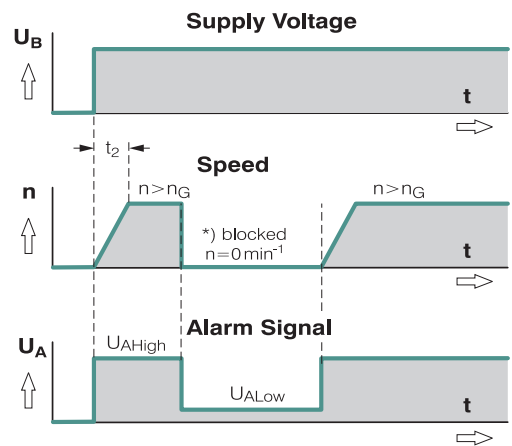
Attention:

With these fan specials, deviations as regards temperature range, voltage range and power consumption are possible compared with standard fans.

Electrical connection



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



t_2 = Alarm signal suppression during start-up
 * $n < n_G$ by braking or blocking.