

Max. 84 m<sup>3</sup>/h

# DC axial fans

□ 92 x 25 mm



- **Material:** Housing: GRP<sup>1)</sup> (PBT)  
Impeller: GRP<sup>1)</sup> (PA)
  - **Direction of air flow:** Exhaust over struts
  - **Direction of rotation:** Counterclockwise, looking towards rotor
  - **Connection:** Via single wires AWG 24, TR 64
  - **Highlights:** Automatic speed adjustment with temperature sensor
  - **Weight:** 100 g
- **Possible special versions:** (See chapter DC fans - specials)
    - Speed signal
    - Go / NoGo alarm
    - External temperature sensor
    - Internal temperature sensor
    - Moisture protection

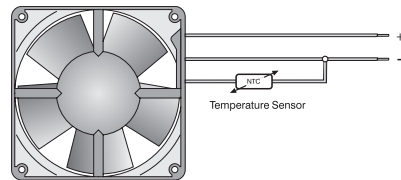
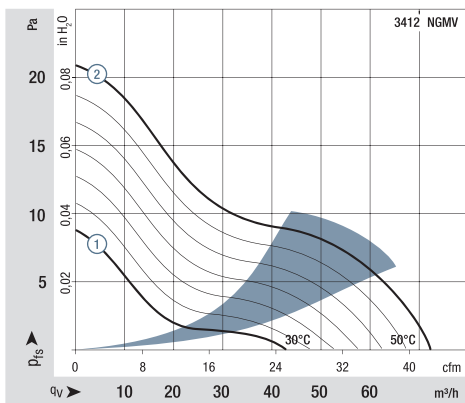
1) Fiberglass-reinforced plastic

Series 3400 N  
VARIOFAN

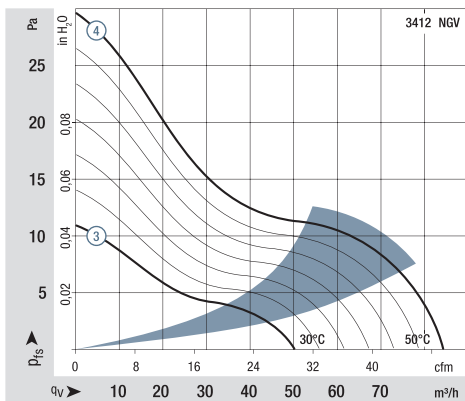
Nominal data

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 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											
3412 NGMV	30°C	44	25.9	12	8...14	14	3.5	□	1.5	1 400	-20...+65	75 000 / 42 500	127 500	127 500	①
	50°C	72	42.4			28	4.3	■	2.0	2 300					
3412 NGV	30°C	50	29.4	12	8...12.6	16	3.7	□	1.6	1 600	-20...+65	75 000 / 42 500	127 500	127 500	③
	50°C	84	49.4			32	4.7	■	2.5	2 700					

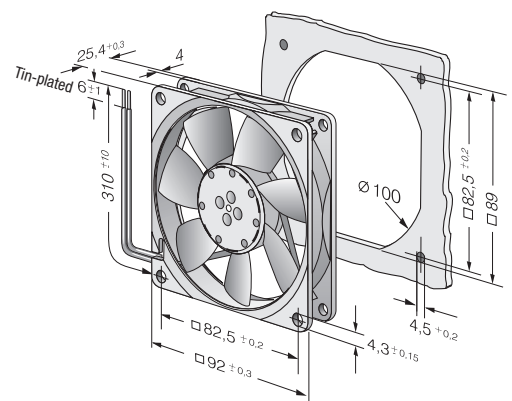
Subject to change



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

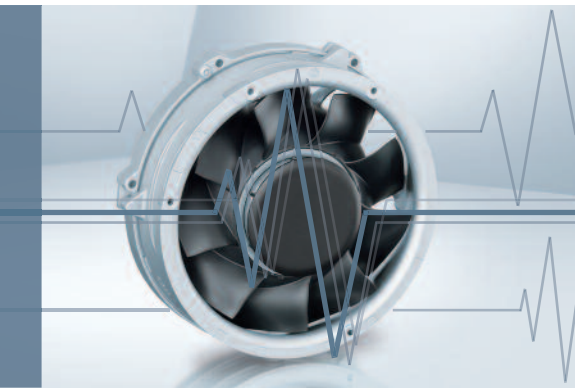


Air performance measured according to: ISO 5801. Installation category A, without contact protection. Noise: Total sound power level L<sub>WA</sub> ISO 103002 measured on a hemisphere with a radius of 2 m. Sound pressure level L<sub>pA</sub> measured at 1 m distance from fan axis. The values given are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



# Alarm signal /37

Go / NoGo alarm



- 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 $I_{sink}$	Alarm delay time $t_d$	Condition:	Speed limit $n_G$	Fan description Basic type
Type	VDC		mA	VDC		mA	VDC	mA	s		$min^{-1}$	Page
8412 N/37 GMLV	$\leq 0.4$	$n \leq n_G$	2	$\leq 28$	$n > n_G$	0	28	10	$< 1$	*	0	45
3412 N/37 GV	$\leq 0.4$	$n \leq n_G$	2	$\leq 28$	$n > n_G$	0	28	10	$< 1$	*	0	49

Subject to change \* After switching on  $U_B$

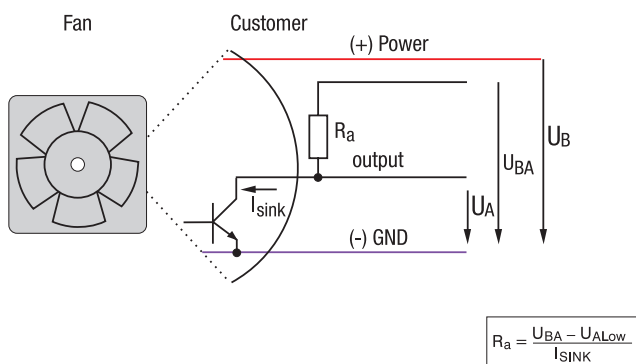
**Note:**

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.

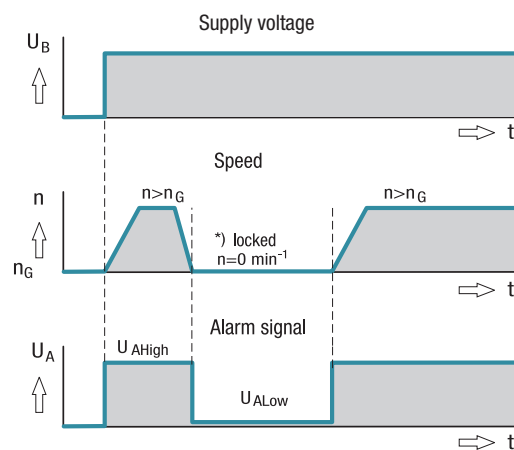
**Available on request:**

- Alarm circuit TTL compatible.

**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