

max. 79 m³/h

DC axial fans

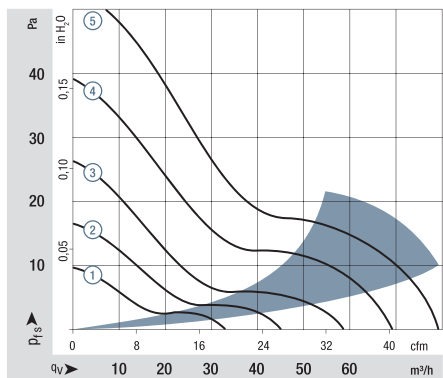
□ 80 x 25 mm



- **Material:** Housing: GRP¹⁾ (PBT)
Impeller: GRP¹⁾ (PA)
 - **Direction of air flow:** Exhaust over struts
 - **Direction of rotation:** Counter-clockwise, seen on rotor
 - **Connection:** Via single wires AWG 24, TR 64
 - **Highlights:** Some models are suitable for use at high ambient temperatures until 85 °C
 - **Mass:** 95 g
- **Possible special versions:** (See chapter DC fans - specials)
 - Speed signal
 - Go- / NoGo-alarm
 - Alarm with limit speed
 - External temperature sensor
 - Internal temperature sensor
 - PWM control input
 - Analog control input
 - Humidity protection
 - Degree of protection: IP 54 / IP 68

1) Fibreglass-reinforced plastic

| Series 8400 N | | | | | | | | | | | | | | |
|---------------|----------|-------------------|-----------------|---------------|----------------------|-------------------|---|-------------|---------------|-------------------|--|--|--|-------|
| Nominal data | Air flow | | Nominal voltage | Voltage range | Sound pressure level | Sound power level | Sinter sleeve bearings Ball bearings | Input power | Nominal speed | Temperature range | Service life L ₁₀ (40 °C) eIm-papst Standard | Service life L ₁₀ (T _{max}) eIm-papst Standard | Life expectancy L ₁₀ (IPC (40 °C), see page 17 | Curve |
| | Type | m ³ /h | | | | | | | | | | | | |
| 8412 NGL | 33 | 19,4 | 12 | 8...15 | 12 | 3,5 | □ | 0,5 | 1 500 | -20...+85 | 80 000 / 27 500 | 135 000 | 135 000 | ① |
| 8412 NLE | 33 | 19,4 | 12 | 8...15 | 17 | 3,7 | ■ | 0,3 | 1 500 | -20...+85 | 80 000 / 27 500 | 135 000 | 135 000 | ① |
| 8412 NGMLE | 45 | 26,5 | 12 | 8...15 | 19 | 3,9 | □ | 0,9 | 2 050 | -20...+80 | 80 000 / 32 500 | 135 000 | 135 000 | ② |
| 8412 NMLE | 45 | 26,5 | 12 | 8...15 | 21 | 4,0 | ■ | 0,6 | 2 050 | -20...+85 | 80 000 / 27 500 | 135 000 | 135 000 | ② |
| 8412 NGME | 58 | 34,1 | 12 | 8...15 | 26 | 4,3 | □ | 1,4 | 2 600 | -20...+75 | 80 000 / 35 000 | 135 000 | 135 000 | ③ |
| 8412 NME | 58 | 34,1 | 12 | 8...15 | 27 | 4,4 | ■ | 1,0 | 2 600 | -20...+75 | 80 000 / 35 000 | 135 000 | 135 000 | ③ |
| 8412 NG | 69 | 40,6 | 12 | 8...15 | 32 | 4,7 | □ | 2,0 | 3 100 | -20...+70 | 70 000 / 35 000 | 117 500 | 117 500 | ④ |
| 8412 N | 69 | 40,6 | 12 | 8...15 | 32 | 4,7 | ■ | 1,7 | 3 100 | -20...+70 | 70 000 / 35 000 | 117 500 | 117 500 | ④ |
| 8412 NH | 79 | 46,5 | 12 | 8...13,2 | 37 | 5,0 | ■ | 2,1 | 3 600 | -20...+70 | 70 000 / 35 000 | 117 500 | 117 500 | ⑤ |
| 8412 NH-217 | 79 | 46,5 | 12 | 8...15 | 37 | 5,0 | ■ | 2,5 | 3 600 | -20...+70 | 70 000 / 35 000 | 117 500 | 117 500 | ⑤ |
| 8414 NGL | 33 | 19,4 | 24 | 18...28 | 12 | 3,5 | □ | 0,9 | 1 500 | -20...+70 | 80 000 / 40 000 | 135 000 | 135 000 | ① |
| 8414 NL | 33 | 19,4 | 24 | 18...28 | 17 | 3,7 | ■ | 0,8 | 1 500 | -20...+70 | 80 000 / 40 000 | 135 000 | 135 000 | ① |
| 8414 NGML | 45 | 26,5 | 24 | 18...28 | 19 | 3,9 | □ | 1,2 | 2 050 | -20...+70 | 80 000 / 40 000 | 135 000 | 135 000 | ② |
| 8414 NML | 45 | 26,5 | 24 | 18...28 | 21 | 4,0 | ■ | 1,1 | 2 050 | -20...+70 | 80 000 / 40 000 | 135 000 | 135 000 | ② |
| 8414 NGM | 58 | 34,1 | 24 | 18...28 | 26 | 4,3 | □ | 1,4 | 2 600 | -20...+70 | 80 000 / 40 000 | 135 000 | 135 000 | ③ |
| 8414 NM | 58 | 34,1 | 24 | 18...28 | 27 | 4,4 | ■ | 1,4 | 2 600 | -20...+70 | 80 000 / 40 000 | 135 000 | 135 000 | ③ |
| 8414 NG | 69 | 40,6 | 24 | 18...28 | 32 | 4,7 | □ | 2,2 | 3 100 | -20...+70 | 70 000 / 35 000 | 117 500 | 117 500 | ④ |
| 8414 N | 69 | 40,6 | 24 | 18...28 | 32 | 4,7 | ■ | 1,8 | 3 100 | -20...+70 | 70 000 / 35 000 | 117 500 | 117 500 | ④ |
| 8414 NH | 79 | 46,5 | 24 | 18...26 | 37 | 5,0 | ■ | 2,4 | 3 600 | -20...+70 | 70 000 / 35 000 | 117 500 | 117 500 | ⑤ |
| 8414 NH-221 | 79 | 46,5 | 24 | 18...28 | 37 | 5,0 | ■ | 2,2 | 3 600 | -20...+70 | 70 000 / 35 000 | 117 500 | 117 500 | ⑤ |
| 8418 N | 69 | 40,6 | 48 | 36...56 | 32 | 4,7 | ■ | 2,0 | 3 100 | -20...+70 | 70 000 / 35 000 | 117 500 | 117 500 | ④ |



Air performance measured as per: ISO 5801, installation category A, without accidental contact.
Noise: Total sound power level L_{WA} ISO 103002 measured on half-sphere of 2 m;
Sound pressure level L_{pA} measured at 1 m distance to fan axis.
The acoustic values are only valid for the described measurement set-up and may vary depending on the installation situation.
In case of any deviation to the standard setup, the values have to be checked and reviewed once installed or fitted.
For detailed information see http://www.ebmpapst.com/general_conditions

