Max. 117 m³/h

# DC axial fans

☐ 80 x 25 mm



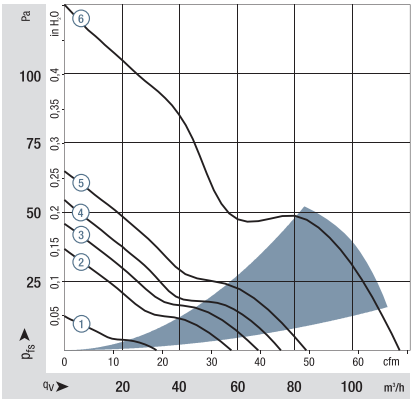
- **Material:** Housing: GRP[1] (PBT)
  Impeller: GRP[1] (PA)
- **Direction of air flow:** Exhaust over struts
- **Direction of rotation:** Counterclockwise, looking towards rotor
- **Connection:** Via single wires AWG 24, TR 64
- **Highlights:** Very low-noise motor
- **Weight:** 105 g

- **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

1) Fiberglass-reinforced plastic

| Series 8450<br>**Nominal data** | Air flow | Air flow | **Nominal voltage** | Voltage range | Sound pressure level | Sound power level | Sintec sleeve bearings<br>Ball bearings | Power consumption | Nominal speed | Temperature range | Service life $L_{10}$ (40 °C) ebm-papst standard<br>Service life $L_{10}$ ($T_{max}$) ebm-papst standard | Life expectancy $L_{10IPC}$ (40 °C) see page 17 | Curve |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Type** | **m³/h** | **cfm** | **VDC** | **VDC** | **dB(A)** | **Bel(A)** | **□ / ■** | **Watts** | **rpm⁻¹** | **°C** | **Hours** | **Hours** | |
| 8452 GL | 32 | 18.8 | **12** | 8...15 | 14 | 3.3 | □ | 0.4 | 1 700 | -20...75 | 80 000 / 35 000 | 135 000 | ① |
| 8452 GM | 58 | 34.1 | **12** | 8...15 | 32 | 4.7 | □ | 1.3 | 3 100 | -20...75 | 80 000 / 35 000 | 135 000 | ② |
| 8452 GN | 68 | 40.0 | **12** | 8...15 | 36 | 5.0 | □ | 1.8 | 3 600 | -20...70 | 70 000 / 35 000 | 117 500 | ③ |
| Models with 25 kHz PWM control and speed signal to 4-wire specification (see page 179). | | | | | | | | | | | | | |
| 8452/2 GHP | 75 | 44.1 | **12** | 10.8...13.2 | 38 | 5.3 | □ | 2.5 | 4 000 | -20...70 | 70 000 / 35 000 | 117 500 | ④ |
| 8452/2 GHHP | 83 | 48.8 | **12** | 10.8...13.2 | 42 | 5.5 | □ | 3.5 | 4 400 | -20...60 | 65 000 / 40 000 | 110 000 | ⑤ |
| Models with 1-30 kHz PWM control and speed signal. | | | | | | | | | | | | | |
| 8452/2 H4P | 117 | 68.8 | **12** | 8...15 | 50 | 6.4 | ■ | 6.8 | 6 200 | -20...70 | 60 000 / 30 000 | 102 500 | ⑥ |
| 8454/2 H4P | 117 | 68.8 | **24** | 20.0...26.4 | 50 | 6.4 | ■ | 6.8 | 6 200 | -20...70 | 60 000 / 30 000 | 102 500 | ⑥ |

Subject to change




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

