

max. 9 m<sup>3</sup>/h

## DC axial fans

□ 40 x 10 mm

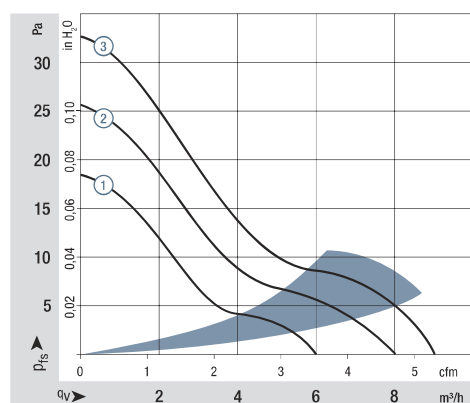


- **Material:** Housing: GRP<sup>1)</sup> (PBT)  
Impeller: GRP<sup>1)</sup> (PA)
- **Direction of air flow:** Exhaust over struts
- **Direction of rotation:** Counter-clockwise, seen on rotor
- **Connection:** Via single wires AWG 28, TR 64
- **Highlights:** Some models are suitable for use at high ambient temperatures
- **Mass:** 17 g
- **Possible special versions:**  
(See chapter DC fans - specials)
  - Speed signal
  - Go- / NoGo-alarm
  - Humidity protection

1) Fibreglass-reinforced plastic

| Series 400 F                               |          |          |                 |               |                      |                   |                                         |             |               |                   |                 | Service life L <sub>10</sub> (20 °C)<br>ebm-papst Standard | Service life L <sub>10</sub> (60 °C)<br>ebm-papst Standard | Life expectancy L <sub>10</sub> IPC<br>(40 °C) see page 17 | Curve |
|--------------------------------------------|----------|----------|-----------------|---------------|----------------------|-------------------|-----------------------------------------|-------------|---------------|-------------------|-----------------|------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|-------|
| Nominal data                               | Air flow | Air flow | Nominal voltage | Voltage range | Sound pressure level | Sound power level | Sinter sleeve bearings<br>Ball bearings | Input power | Nominal speed | Temperature range |                 |                                                            |                                                            |                                                            |       |
| Type                                       | m³/h     | cfm      | VDC             | VDC           | dB(A)                | Bel(A)            | ■ / ■                                   | Watts       | rpm           | °C                | Hours           | Hours                                                      |                                                            |                                                            |       |
| 405 F                                      | 8        | 4,7      | 5               | 4,5...5,5     | 22,1                 | 4,4               | ■                                       | 0,7         | 5 400         | -20...+70         | 45 000 / 17 500 | 47 500                                                     | ②                                                          |                                                            |       |
| 405 FH                                     | 9        | 5,3      | 5               | 4,5...5,5     | 26,0                 | 4,6               | ■                                       | 0,9         | 6 000         | -20...+70         | 45 000 / 17 500 | 47 500                                                     | ③                                                          |                                                            |       |
| 412 FM                                     | 6        | 3,5      | 12              | 10...14       | 17,0                 | 3,8               | ■                                       | 0,5         | 4 300         | -20...+70         | 45 000 / 17 500 | 47 500                                                     | ①                                                          |                                                            |       |
| 412 F                                      | 8        | 4,7      | 12              | 10...14       | 22,1                 | 4,4               | ■                                       | 0,7         | 5 400         | -20...+70         | 45 000 / 17 500 | 47 500                                                     | ②                                                          |                                                            |       |
| 412 FH                                     | 9        | 5,3      | 12              | 10...14       | 26,0                 | 4,6               | ■                                       | 0,8         | 6 000         | -20...+70         | 45 000 / 17 500 | 47 500                                                     | ③                                                          |                                                            |       |
| 414 F                                      | 8        | 4,7      | 24              | 20...28       | 22,1                 | 4,4               | ■                                       | 0,8         | 5 400         | -20...+70         | 45 000 / 17 500 | 47 500                                                     | ②                                                          |                                                            |       |
| 414 FH                                     | 9        | 5,3      | 24              | 21,6...26,4   | 26,0                 | 4,4               | ■                                       | 0,9         | 6 000         | -20...+70         | 45 000 / 17 500 | 47 500                                                     | ③                                                          |                                                            |       |
| Model with temperature range up to +85 °C. |          |          |                 |               |                      |                   |                                         |             |               |                   |                 |                                                            |                                                            |                                                            |       |
| 412 FM-074                                 | 6        | 3,5      | 12              | 10...14       | 17,0                 | 3,8               | ■                                       | 0,4         | 4 300         | -20...+85         | 45 000 / 17 500 | 47 500                                                     | ①                                                          |                                                            |       |
| 412 F-130                                  | 8        | 4,7      | 12              | 10...14       | 22,1                 | 4,4               | ■                                       | 0,6         | 5 400         | -20...+85         | 45 000 / 17 500 | 47 500                                                     | ②                                                          |                                                            |       |
| 412 FH-132                                 | 9        | 5,3      | 12              | 10...14       | 26,0                 | 4,6               | ■                                       | 0,8         | 6 000         | -20...+85         | 45 000 / 17 500 | 47 500                                                     | ③                                                          |                                                            |       |

Subject to alterations



Air performance measured as per: ISO 5801,  
Installation category A, without accidental contact,  
Noise: Total sound power level  $L_{pA}$  ISO 103002  
measured on half-sphere of 2 m;  
Sound pressure level  $L_p$  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.ebm-paost.com/general\\_conditions](http://www.ebm-paost.com/general_conditions)

