

# FE2owlet

for three phase alternating current, 4-4 pole

FNO45-VD



## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 3- 400 V ( $\Delta/Y$ )  $\pm 10$  %\*  
 Rated frequency  $f_N$ : 50 Hz\* (60Hz data available)  
 Motor input power  $P_1$ : 0.35/0.22 kW\*  
 Rated current  $I_N$ : 0.64/0.35 A\*  
 Rated speed  $n_N$ : 1280/ 970  $\text{min}^{-1}$ \*  
 Starting current  $I_s$ : 1.90 A / 0.65 A  
 Current increase  $\Delta I$ : 0 %  
 Thermal class: THCL155\*  
 Min. permitted conveyor temperature  $t_{R(\text{min})}$ : -40 °C  
 Max. permitted conveyor temperature  $t_{R(\text{max})}$ : 70 °C  
 Electrical connection: Terminal box  
 Number of blades: 7  
 Protection class: IP44  
 Motor protection: Thermal contact  
 Blades: High Performance Composite Material, uncoated, black  
 Rotor: Aluminium, 1 coat paint, black  
 Conformity: ErP 2015, CE

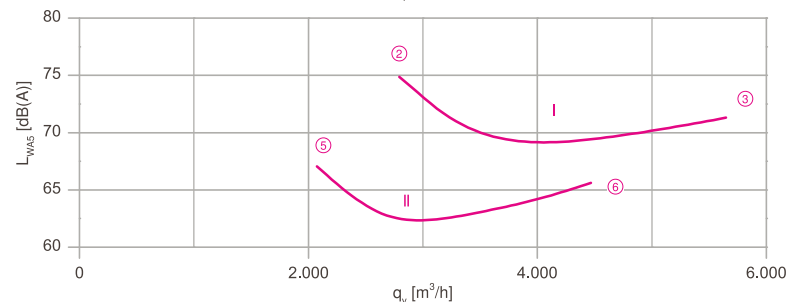
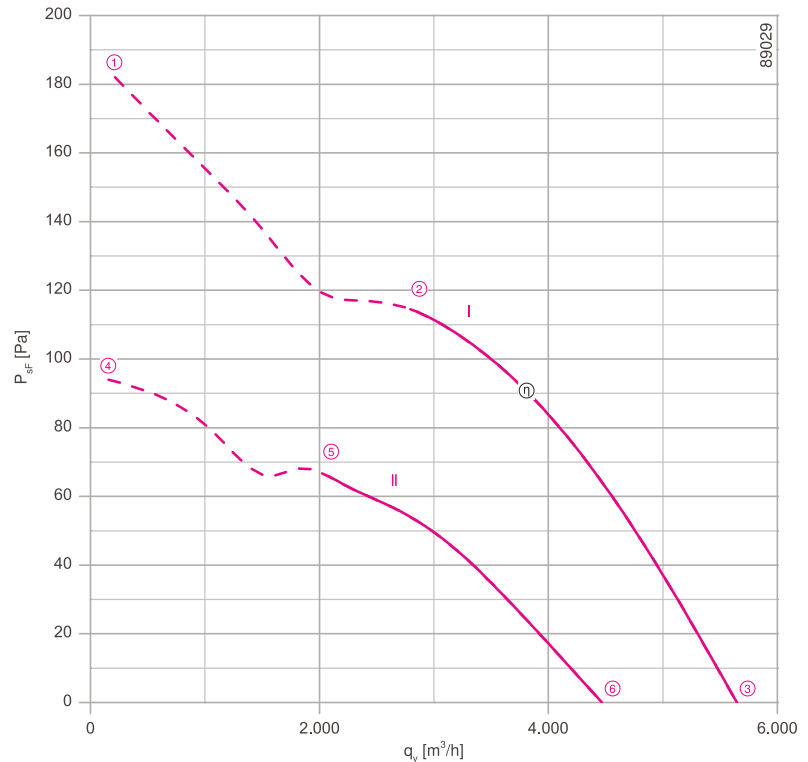
## ErP Data

Efficiency  $\eta_{\text{statA}}$ : 29.0 %  
 Efficiency:  $N_{\text{actual}} = 40.1 / N_{\text{target}} = 40$ \*\*  
 Frequency inverter required  
 \* Rated data  
 \*\*ErP 2015

➤ Connection diagrams Page 608  
 for airflow direction V 1360-108XA  
 for airflow direction A 1360-108XB

➤ System components Page 524

## Characteristic curve

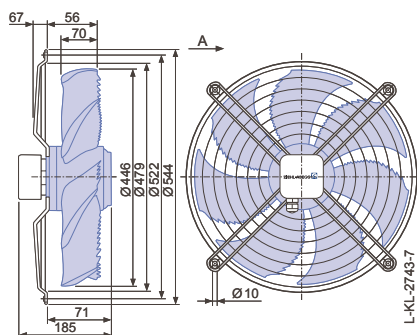


Measured in full bell mouth without guard grille in installation type A according to ISO 5801.

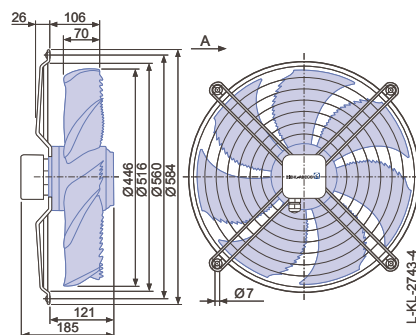
## Dimensions [mm]

### Airflow direction A

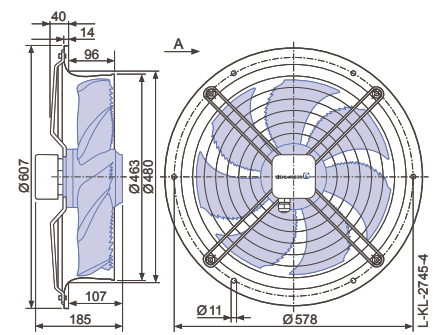
Design W - axial bolted, mounting for short bell mouth E



Design D - axial bolted, suspension for full bell mouth Q and L



Design L - round, full bell mouth




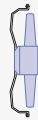




Performance data


| Type            | Connection | Characteristic curve | Voltage | Operating point | Current | Motor input power | Speed | Suction side sound power level |
|-----------------|------------|----------------------|---------|-----------------|---------|-------------------|-------|--------------------------------|
|                 |            |                      | U [V]   |                 |         |                   |       |                                |
| FN045-VD_2F_7P2 | Δ          | I                    | 400     | ①               | 0.74    | 440               | 1220  |                                |
|                 |            |                      | 400*    | ②               | 0.64*   | 350*              | 1280* | 75                             |
|                 |            |                      | 400     | ③               | 0.58    | 290               | 1330  | 71                             |
|                 | Y          | II                   | 400     | ④               | 0.40    | 250               | 870   |                                |
|                 |            |                      | 400*    | ⑤               | 0.35*   | 220*              | 970*  | 67                             |
|                 |            |                      | 400     | ⑥               | 0.31    | 200               | 1060  | 66                             |

\*rated data

Fan ordering information

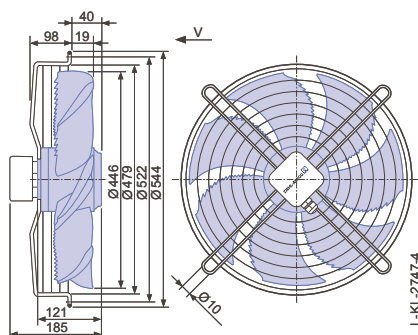
| Design             | Airflow direction A   |   |   | Airflow direction V   |   |   |
|--------------------|---|---|---|---|---|---|
|                    | W   | D   | L   | K   | H   | I   |
|                    |  |  |  |  |  |  |
| <b>Type</b>        | FN045-VDW.2F.A7P2   | FN045-VDD.2F.A7P2   | FN045-VDL.2F.A7P2   | FN045-VDK.2F.V7P2   | FN045-VDH.2F.V7P2   | FN045-VDI.2F.V7P2   |
| <b>Article no.</b> | 152820  | 152818  | 152819  | 152824  | 152823  | 152822  |
| <b>Weight [kg]</b> | 6.30  | 6.10  | 9.50  | 6.60  | 9.50  | 6.10  |

Control technology

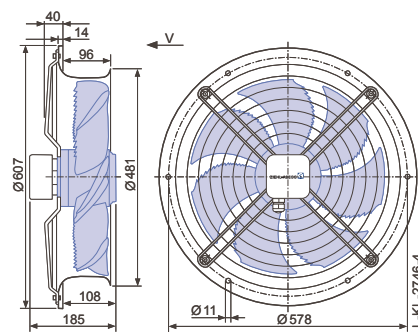
|  |   |  |   |
|--|---|--|---|
| <p>Frequency inverter<br/>Fcontrol 3~</p>  <p>➤ Page 558</p> | <p>Motor protection units<br/>3~</p>  <p>➤ Page 596</p> | <p>Transformer-based<br/>controllers 3~</p>  <p>➤ Page 591</p> | <p>Electronic voltage<br/>controllers 3~</p>  <p>➤ Page 578</p> |
|--|---|--|---|

Airflow direction V

Design K - axial bolted, mounted for short bell mouth E



Design H - pipe sockets with a flange



Design I - axial bolted, mounting for bell mouth flange for pipe socket H or full bell mouth Q or L

