

# FE2owlet

for three phase alternating current, 4-4 pole

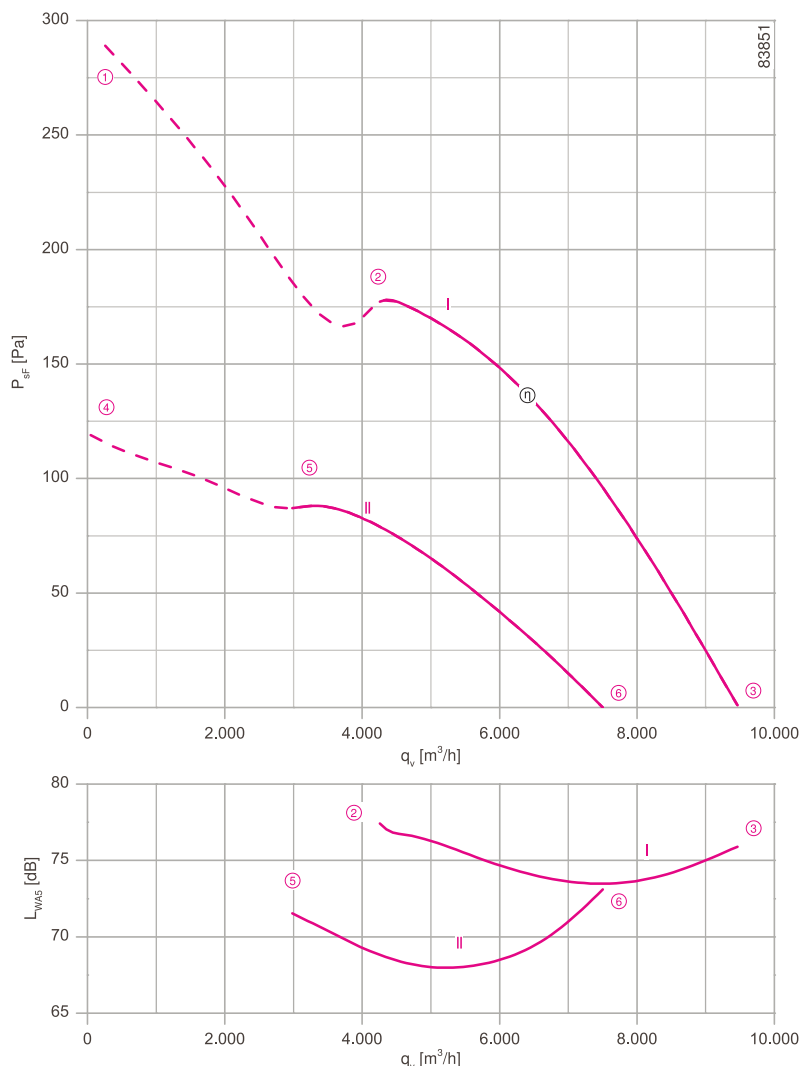
FN050-VD



## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 3- 400 V ( $\Delta/Y$ )  $\pm 10\%$ \*  
 Rated frequency  $f_N$ : 50 Hz\*  
 Motor input power  $P_1$ : 0.84/0.54 kW\*  
 Rated current  $I_N$ : 1.45/0.96 A\*  
 Rated speed  $n_N$ : 1340/ 940 min<sup>-1</sup>\*  
 Starting current  $I_s$ : 4.70 A / 1.55 A  
 Current increase  $\Delta I$ : 15 %  
 Thermal class: **THCL155\***  
 Min. permitted conveyor temperature  $t_{R(min)}$ : -40 °C  
 Max. permitted conveyor temperature  $t_{R(max)}$ : 70 °C  
 Electrical connection: Terminal box  
 Number of blades: 7  
 Protection class: IP54  
 Motor protection: Thermal contact  
 Blades: Aluminium, uncoated  
 Rotor: Aluminium, uncoated  
 Conformity: ErP 2015, CE  
**ErP Data**  
 Efficiency  $\eta_{statA}$ : 34.2 %  
 Efficiency:  $N_{actual} = 41.3 / N_{target} = 40^{**}$   
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



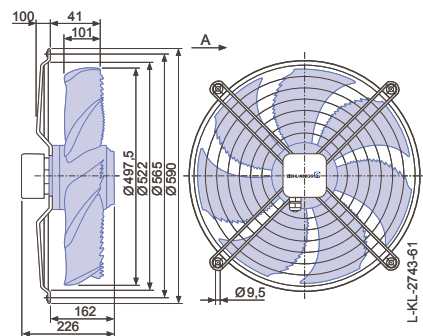
Measured in full bell mouth without guard grille in installation type A according to ISO 5801.

- Connection diagrams Page 608
  - for airflow direction V 1360-108XA
  - for airflow direction A 1360-108XB
- System components Page 524

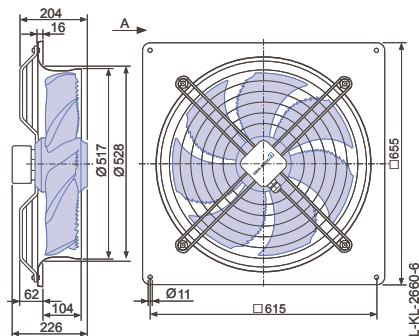
## Dimensions [mm]

Airflow direction A

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

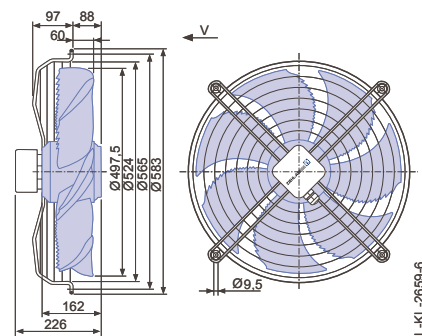


Design Q - square, full bell mouth



Airflow direction V

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



Performance data

Type	Connection	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level $L_{WAS}$ [dB]
			U [V]		I [A]	$P_1$ [W]	n [min <sup>-1</sup> ]	
FN050-VD_4I_7P1	Δ	I	400	①	1.75	1050	1280	78
			400*	②	1.45*	840*	1340*	
			400	③	1.15	620	1390	
	Y	II	400	④	1.05	580	800	72
			400*	⑤	0.96*	540*	940*	
			400	⑥	0.82	480	1110	

\*rated data

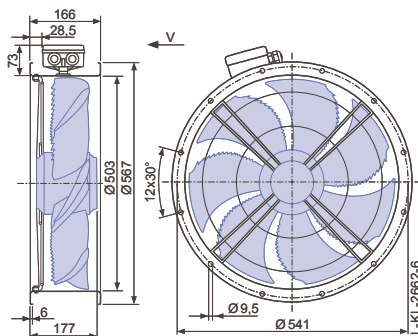
Fan ordering information

Design	Airflow direction A			Airflow direction V		
	W	Q	K	F (without contact protection)	F (with contact protection)	Q
<b>Type</b>	FN050-VDW.4I.A7P1	FN050-VDQ.4I.A7P1	FN050-VDK.4I.V7P1	FN050-VDF.4I.V7P1	FN050-VDF.4I.V7P1	FN050-VDQ.4I.V7P1
<b>Article no.</b>	156556	140083	140056	140067	140073	140322
<b>Weight [kg]</b>	13.80	20.10	13.30	16.80	17.50	17.80

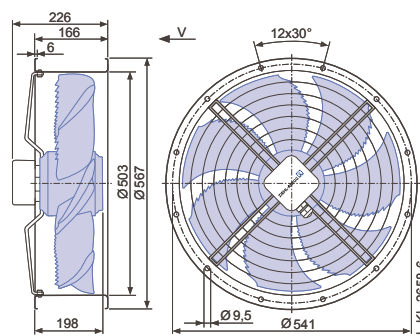
Control technology

<p>Frequency inverter Fcontrol 3~</p> <p>➤ Page 558</p>	<p>Motor protection units 3~</p> <p>➤ Page 596</p>	<p>Transformer-based controllers 3~</p> <p>➤ Page 591</p>	<p>Electronic voltage controllers 3~</p> <p>➤ Page 578</p>
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Design F - flange ring with two flanges without guard grille



Design F - flange ring with two flanges and guard grille



Design Q - square, full bell mouth

