

for three phase alternating current, 4-4 pole

FN045-VD



Description

Motor technology: AC

Rated voltage U_N : 3~400 V (Δ/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 min⁻¹*

Starting current I_A : 1.90 A / 0.65 A

Current increase ΔI : 0 %

Thermal class: **THCL155***

Min. permitted conveyor temperature $t_{p(min)}$: -40 °C

Max. permitted conveyor temperature $t_{R(max)}$: 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 η_{statA} : 29.0 %

Efficiency: $N_{\text{actual}} = 40.1 / N_{\text{target}} = 40^{**}$

Frequency inverter required

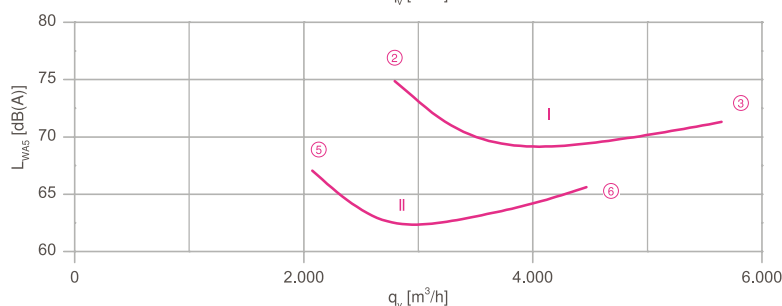
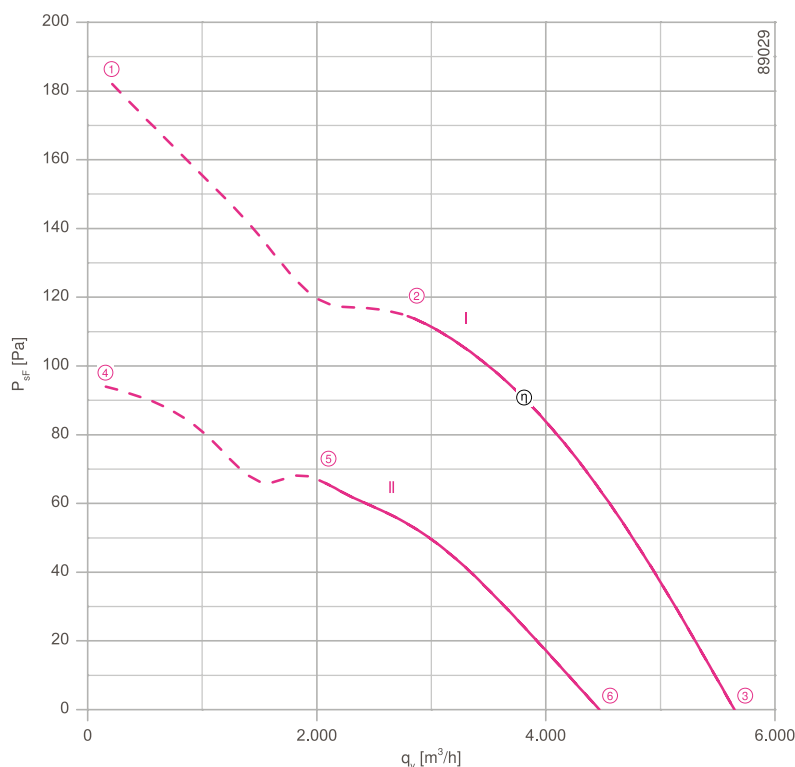
* Rated data

**ErP 2015

➤ **Connection diagrams** Page 608

for airflow direction V	1360-108XA
for airflow direction A	1360-108XB

Characteristic curve

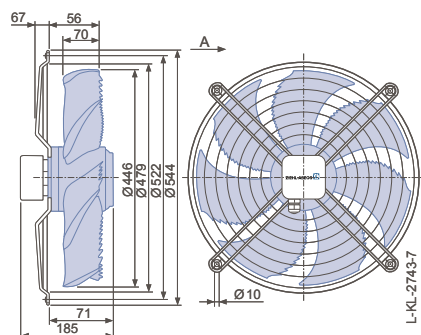


Measured in full bell mouth without guard grille in installation type A according to ISO 5801.

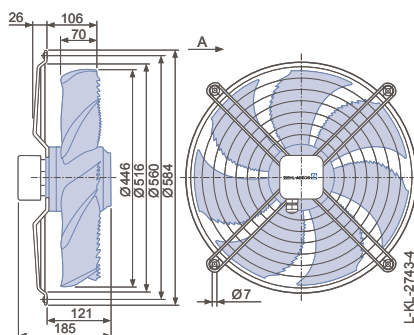
Dimensions [mm]

Airflow direction A

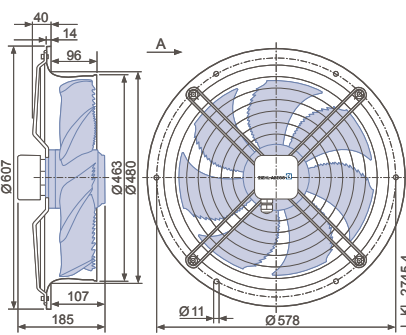
Design W - axial bolted, mounting for short bell mouth E



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



Design L - round, full bell mouth



		curve	U [V]	point	I [A]	power P ₁ [W]	n [min ⁻¹]	sound power level L _{WA5} [dB]
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

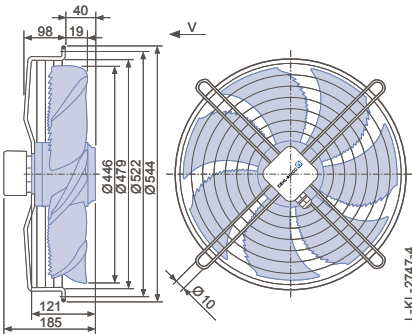
Airflow direction A				Airflow direction V		
Design	W	D	L	K	H	I
						
Type	FN045-VDW.2F.A7P2	FN045-VDD.2F.A7P2	FN045-VDL.2F.A7P2	FN045-VDK.2F.V7P2	FN045-VDH.2F.V7P2	FN045-VDI.2F.V7P2
Article no.	152820	152818	152819	152824	152823	152822
Weight [kg]	6.30	6.10	9.50	6.60	9.50	6.10

Control technology

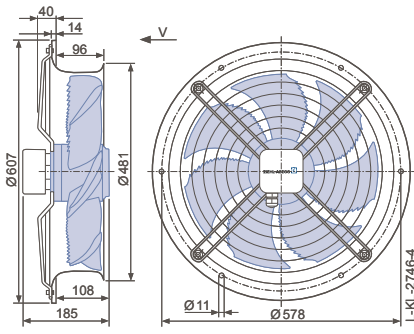
Frequency inverter Fcontrol 3~  Page 558	Motor protection units 3~  Page 596	Transformer-based controllers 3~  Page 591	Electronic voltage controllers 3~  Page 578
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Airflow direction V

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

