

for single phase alternating current, 4 pole

FNO45-4E



Description

Motor technology: AC

Rated voltage U_N : 1~230 V $\pm$ 10 %*

Rated frequency f_N : **50 Hz***

Motor input power P_1 : **0.39 kW***

Rated current I_N : 1.75 A*

Rated speed n_N : **1290 min⁻¹***

Starting current I_A : 3.60 A

Current increase ΔI : 10 %

Service capacitor C_{400V} : $7.0 \mu F$

Thermal class: **THCL155***

Min. permitted conveyor temperature: 150°C

Max. permitted conveyor temperature $t_{R(max)}$: 55 °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 2013, CE

ErP Data

Efficiency η_{total} : 27.3 %

Efficiency: $N_{\text{actual}} = 36.2 / N_{\text{target}} = 36^{**}$

* Rated data

**ErP 2013



- Connection diagrams

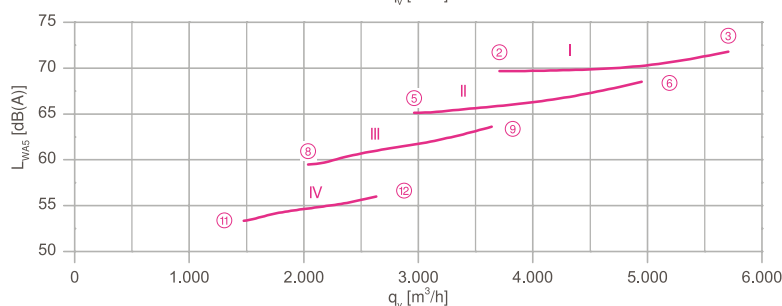
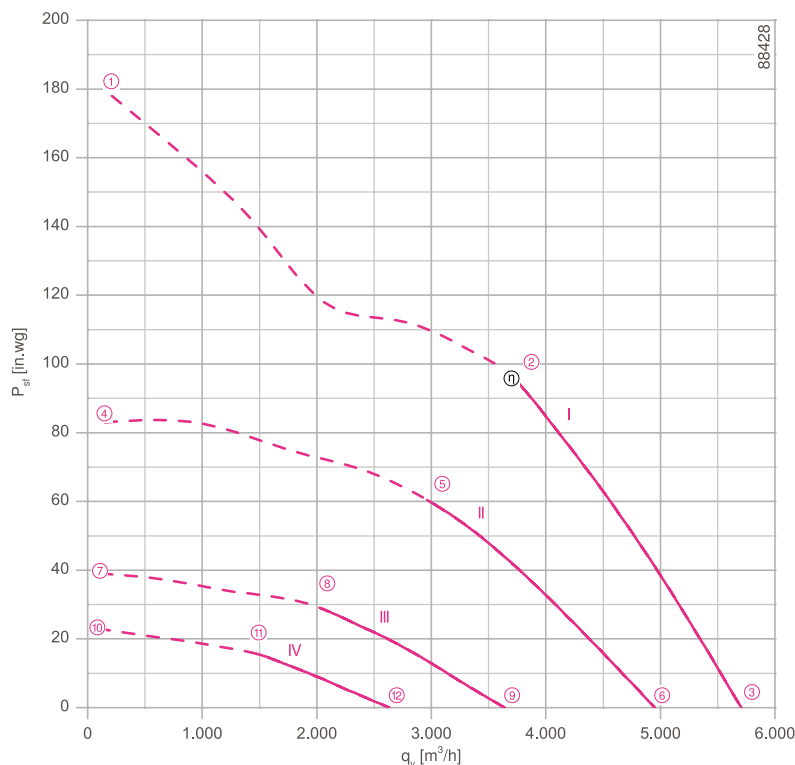
for airflow direction V 1360-104XA

for airflow direction A 1360-104XB

System components

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Characteristic curve

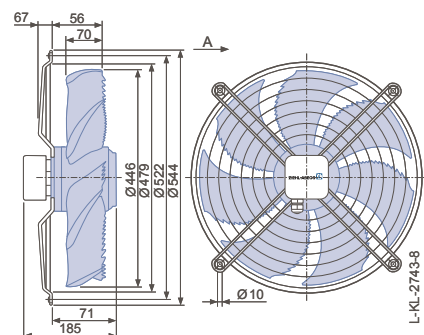


Measured in full bell mouth without guard grille in installation type A according to ISO 5801.

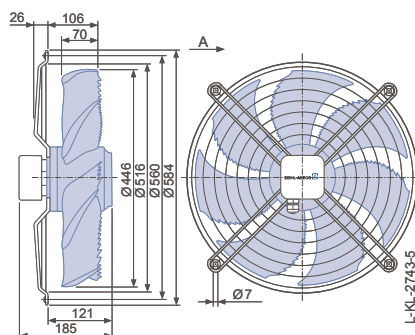
Dimensions [mm]

Airflow direction A

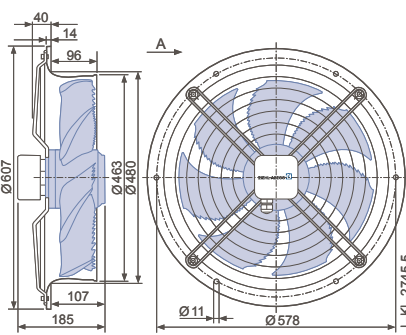
Design W - axial bolted, mounting for short bell mouth E



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



Design L - round, full bell mouth



	curve	U [V]		I [A]	power P ₁ [W]	n [min ⁻¹]	power level L _{WA5} [dB]
FN045-4E_2F_7P2	I	230	①	2.10	480	1180	
		230*	②	1.75*	390*	1290*	70
		230	③	1.50	330	1340	72
	II	170	④	2.20	360	810	
		170	⑤	1.90	320	1030	65
		170	⑥	1.60	270	1170	69
	III	135	⑦	1.85	240	560	
		135	⑧	1.75	230	710	60
		135	⑨	1.65	220	870	64
	IV	110	⑩	1.55	160	430	
		110	⑪	1.55	160	530	53
		110	⑫	1.50	160	630	56

*rated data

Fan ordering information

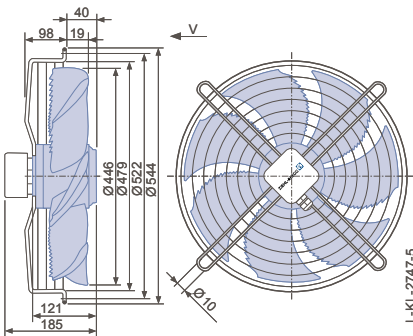
Airflow direction A				Airflow direction V		
Design	W	D	L	K	H	I
						
Type	FN045-4EW.2F.A7P2	FN045-4ED.2F.A7P2	FN045-4EL.2F.A7P2	FN045-4EK.2F.V7P2	FN045-4EH.2F.V7P2	FN045-4EI.2F.V7P2
Article no.	141711	141709	141710	141715	141714	141713
Weight [kg]	6.30	6.10	9.50	6.60	9.50	6.10

Control technology

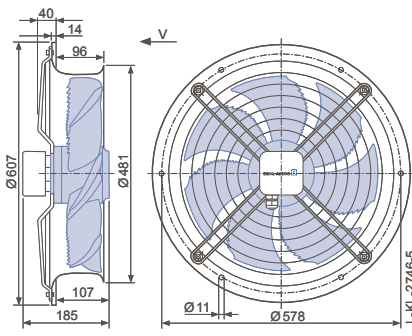
Frequency inverter Fcontrol 1~  Page 552	Motor protection units 1~  Page 596	Transformer-based controllers 1~  Page 587	Electronic voltage controllers 1~  Page 562
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Airflow direction V

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

