FANselect

données ventilateur

05.03.2024

version FANselect V 1.01 (240305), AMCA V 1.03 September, 2021
RLT V 1.00 Dezember, 2021 / 1.24.03.05 | 35883 | (utilisateur ZAFS25883)

type		FN050-VDK.4I.V7P1
n°article		140056 | Portfolio Europe

caractéristiques

moteur		AC
tension principale	-	3~ 400V 50Hz D
intensité nominale (I_N)	A	1.45
température ambiante (t_r)	°C	70
rendement η_{statA}	%	34,2
Rendement $\mathbf{N_{actual}}$ | N_{target}		**41,3** | 40
classe ErP		2015
grille | influence		pressure side | measured

données ventilateur

frequence ($\mathbf{f_{BP}}$) | (f_{max})	Hz	**50** | 50
dimensions (Lxlxh)	mm	591 x 591 x 226
poids (m_{pr})	kg	13.3

PF:PF_61; Ano:140056; STol:+-10 %

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courbe debit/pression / Acoustic

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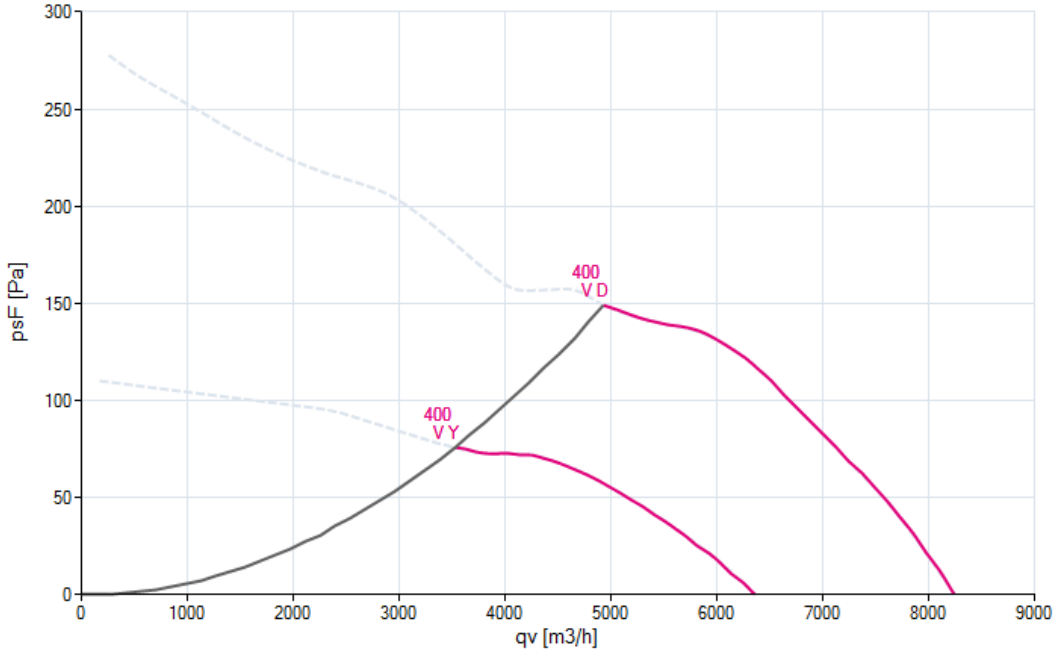
1 FN050-VDK.4I.V7P1

140056 | Portfolio Europe

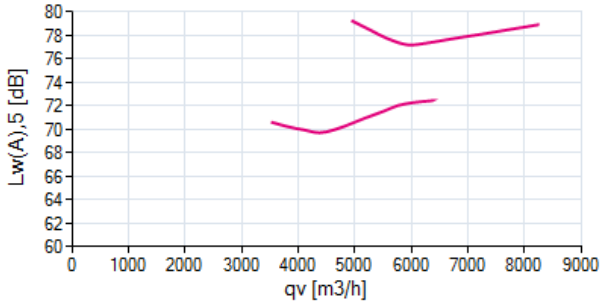
Measured in short nozzle with pressure side guard grille in air flow direction V in installation type A according to ISO5801

densité de mesure 1.16 [kg/m³]

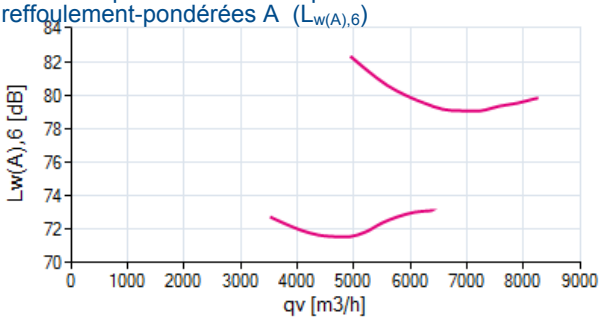
Performance aéraulique p_{sF}



niveau de puissance acoustique côté aspiration-pondérées A ($L_{w(A),5}$)



Lniveau de puissance acoustique côté refoulement-pondérées A ($L_{w(A),6}$)



1 FN050-VDK.4I.V7P1

f [Hz]	sum	63	125	250	500	1000	2000	4000	8000
$L_{w(A),5}$		-	-	-	-	-	-	-	-
$L_{w,5}$		-	-	-	-	-	-	-	-

f [Hz]	sum	63	125	250	500	1000	2000	4000	8000
$L_{w(A),6}$		-	-	-	-	-	-	-	-
$L_{w,6}$		-	-	-	-	-	-	-	-

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rendement / puissance

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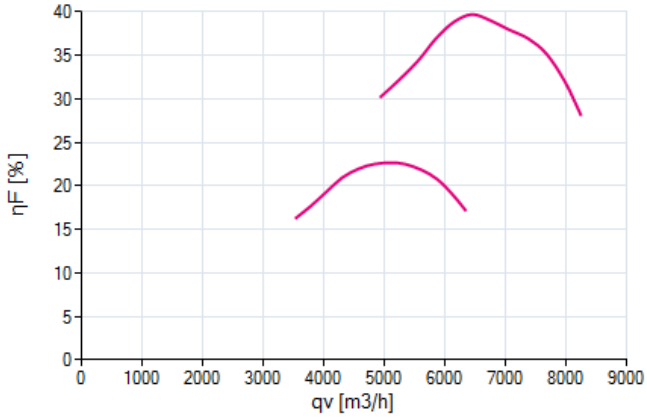
1 FN050-VDK.4I.V7P1

Measured in short nozzle with pressure side guard grille in air flow direction V in installation type A according to ISO5801

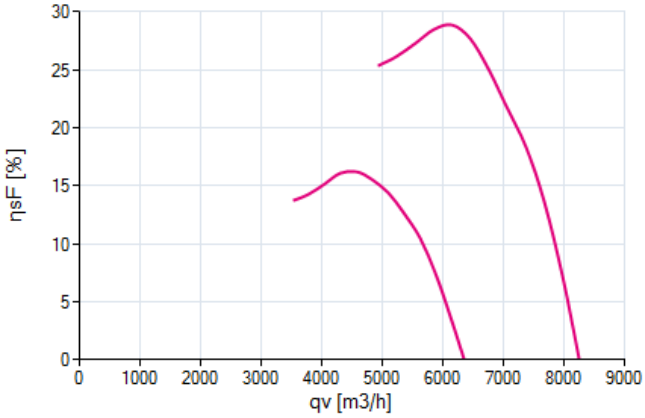
140056 | Portfolio Europe

densité de mesure 1.16 [kg/m³]

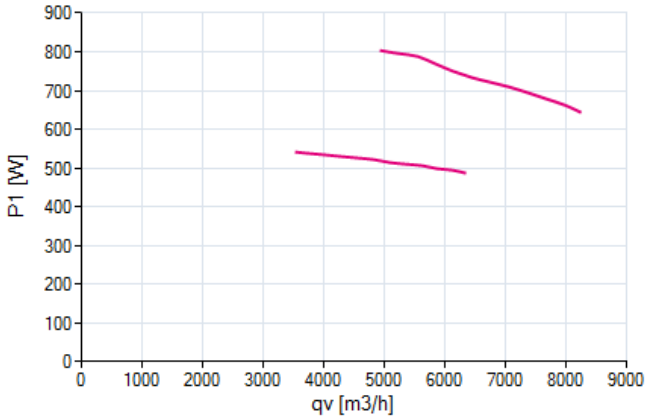
rendement η_F



rendement η_{sF}



puissance P_1



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valeur nominale

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FN050-VDK.4I.V7P1

140056

3~ 400V +10/-10 D/Y 50Hz P1 0.84/0.54kW
1.45/0.96A DI=15% 1340/940/MIN COSY 0.80 70°C
IP54 THCL155

plan

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140056

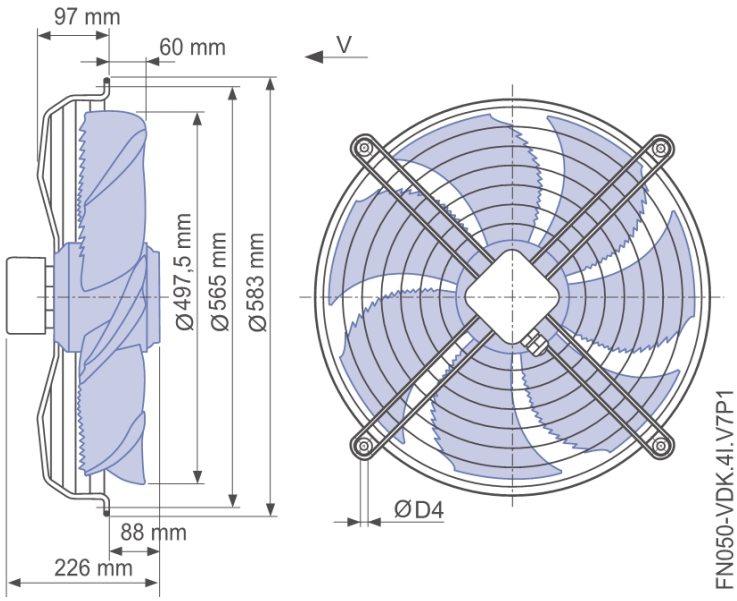

schéma de bobinage

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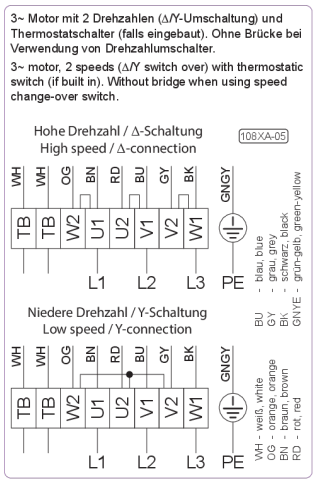
140056



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accessoires system

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1

type	FN050-VDK.4I.V7P1
n°article	140056

accessoires mécaniques

redresseur d'air
type: Ø 500
n°article: 00286705

redresseur d'air
type: Ø 500
n°article: 00291529

FANselect

Series
FN

Design
FE2owlet

Specification
- Direct-driven axial fan
- Aerodynamic-optimised, sickle-blade profile, patterned with serrated trailing edge and winglets on the blade outer edge for energy and noise-optimised operation
- External rotor motor with innovative bionic blade in die-cast aluminium or composite injection moulded
- Impeller: Ø 200 – 1.250 mm
- Balanced in Class G 6.3 acc DIN ISO 21940, dynamic on two levels.
- Any fitting position
- Drive motor in external rotor principle, sealed in protection class IP54 with moisture protection impregnation of the winding, tropical protection
- Thermal contact installed in the winding compliant with THCL 155.
- The permissible ambient temperature is -40°C* to max. +70°C (see data sheet)
- Maintenance-free ball bearings sealed on both sides with long-term lubrication
- Fan characteristic curve refer to measurements made on a combined air performance and acoustic test rig according DIN EN ISO 5801, or AMCA 210-99
- Make the electrical connection according to the operating instructions

System components
Guard grille, inlet rings, control technology

Technical data

Fan type		
Fan size (Ø)		**mm**
Design		
Air flow (q_v)		**m³/h**
Static pressure rise (Δp_{sF})		**Pa**
Rated voltage (U)		**V**
Mains frequency (f)		**Hz**
Rated power (P_N)		**kW**
Efficiency (η_{sF})		**%**
Rated speed (n)		**min^{-1}**
Media temperature (t_R)		**°C**
Sound power level (L_{WA})		**dB(A)**
Weight (m)		**kg**

Further designs on request

All frame sizes are available in various grill and nozzle versions (designs).

*Continuous operation with occasional starts (S1) according to DIN EN 60034-1: 2011-02. Occasional starting between -35 ° C and -25 ° C is permissible. Permanent operation below -25 ° C only possible with special bearings for refrigeration applications on request.