



fan data

05.11.2024

version FANselect V 1.01 (241105), AMCA V 1.03 September, 2021
RLT V 1.00 Dezember, 2021 / 1.24.11.05 | 30813 | (user ZAFS20813)



type	FN050-VDK.4I.V7P1
article no.	141407 Portfolio STD-WW

technical data

motor		AC
mains supply	-	3~ 400V 50Hz D
nominal current (I _N)	A	1.70
ambient temperature, max. limit (t _r)	°C	70
efficiency grade η_{statA}	%	33,4
efficiency grade N_{actual} N_{target}		40,7 40
ErP-conformity		2015
grille influence		pressure side measured

fan data

frequency (f _{DP}) (f _{max})	Hz	50 60
dimensions (w x h x d)	mm	591 x 591 x 226
product weight (m _{pr})	kg	13.3

PF:PF_50; Type:FN050-VDK; STol:±10 %

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performance curve / acoustics

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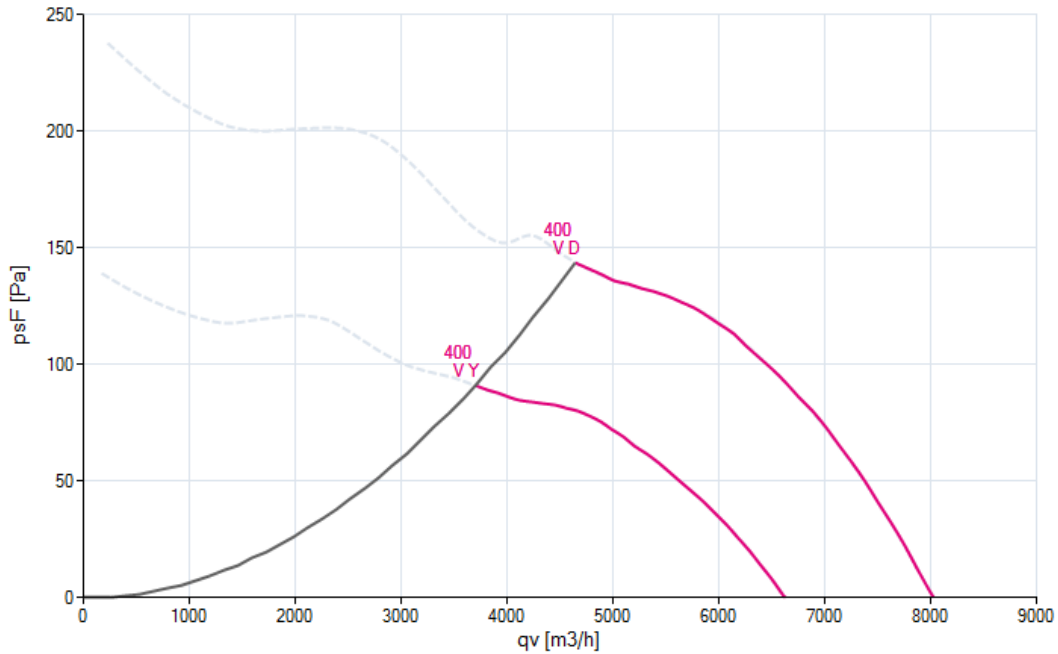
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1 FN050-VDK.4I.V7P1

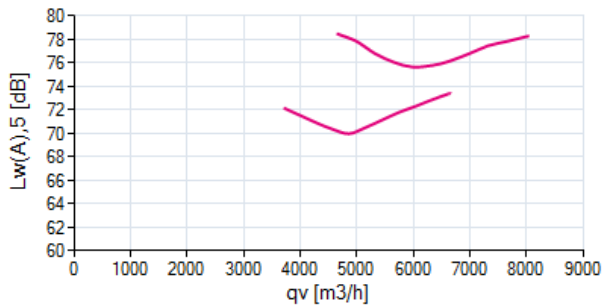
Measured in short nozzle with pressure side guard grille in air flow direction V in installation type A according to ISO5801

141407 | Portfolio STD-WW measurement density 1.19 [kg/m³]

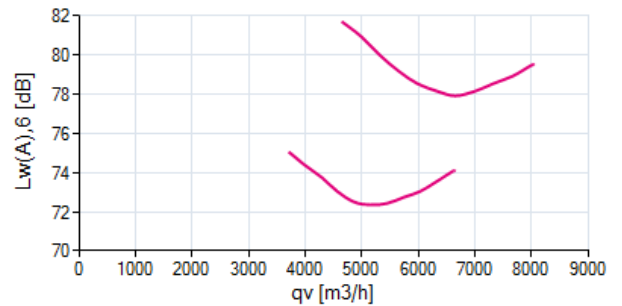
air performance p_{sF}



acoustics ($L_{w(A),5}$)



acoustics ($L_{w(A),6}$)



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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efficiency grade / power input

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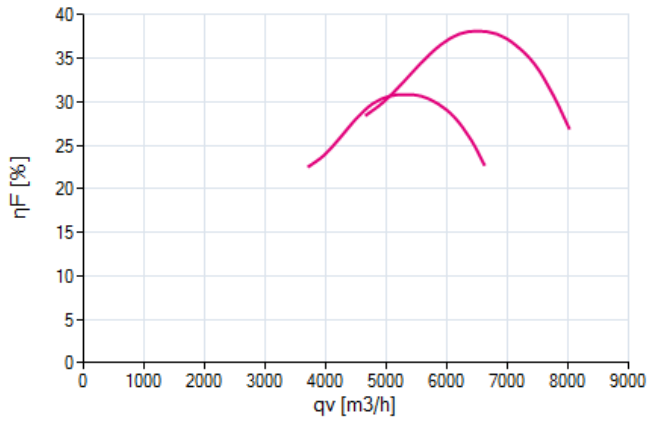
FN050-VDK.4I.V7P1

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

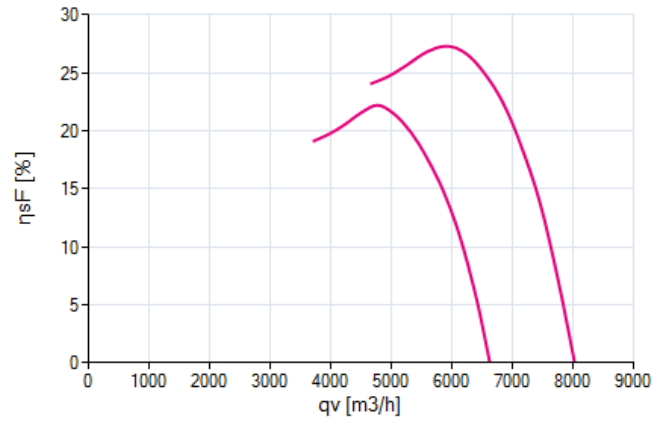
141407 | Portfolio STD-WW

measurement density 1.19 [kg/m³]

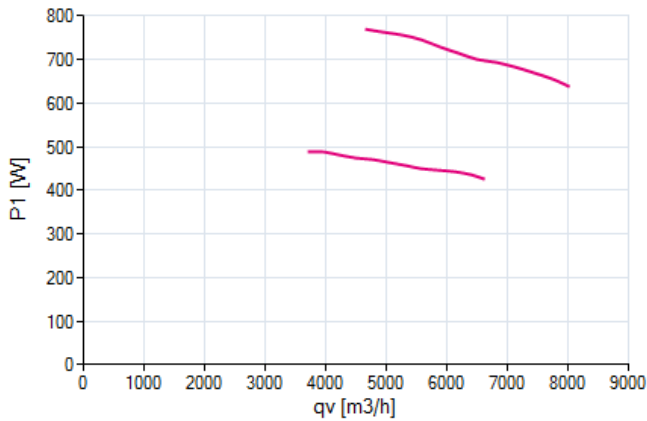
efficiency grade η_F



efficiency grade η_{sF}



power input P_1





nominal values

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FN050-VDK.4I.V7P1

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3~ 400V +10/-10 D/Y 50Hz P1 0.77/0.49kW P2 0.52/0.26kW
 1.70/0.84A DI=0% 1300/1025/MIN COSY 0.64 70°C
 3~ 400V +10/-10 D/Y 60Hz P1 1.10/0.60kW P2 0.64/0.22kW
 1.90/1.00A DI=0% 1400/980/MIN COSY 0.81 70°C
 3~ 460V +10/-10 D/Y 60Hz P1 1.20/0.70kW P2 0.76/0.32kW
 2.00/1.05A DI=0% 1480/1100/MIN COSY 0.76 70°C
 IP54 THCL155

drawing

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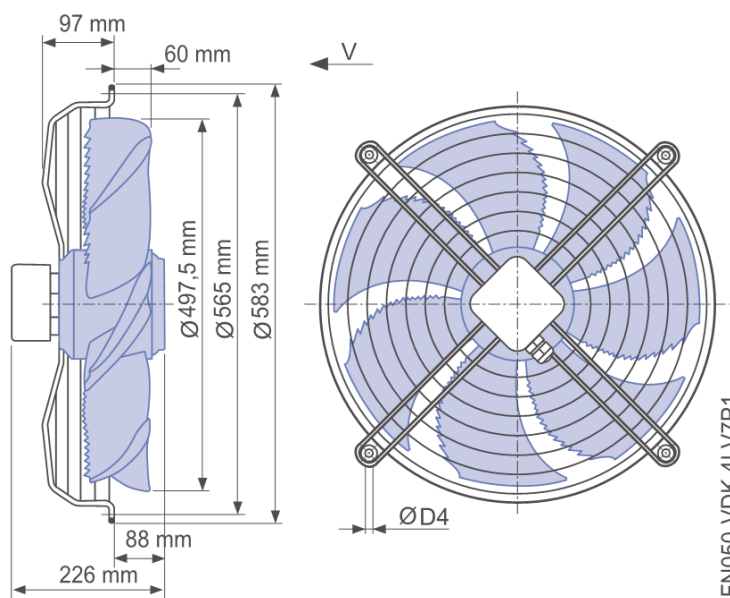
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wiring diagram

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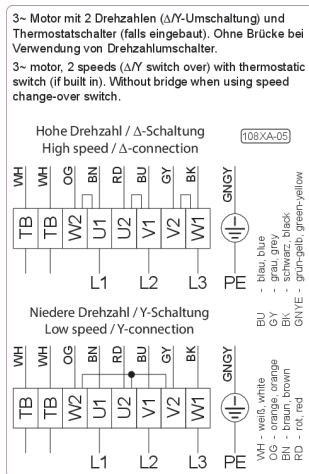
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system components

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type	FN050-VDK.4I.V7P1
article no.	141407

mechanical component	guide vane type: Ø 500 article no.: 00286705
	guide vane type: Ø 500 article no.: 00291529