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FN040-4EK.0F.V7P1 | 152728 | Portfolio STD-WW | FE2owlet AC

Technical Description FE2owlet

Range FN

Standard design with AC-motor

- Profiled, sickle shaped blades designed with bionical know how
- Sizes 310 ... 800 mm (in 9 standard sizes)
- Optimized for full bell mouth
- 100% speed controllable
- ZIEHL-ABEGG FE2owlet fans can be used from -40°C* up to 70°C.

Mains voltage:

- 3~ zweitourig 400 V ±10% D/Y
- 3~ zweitourig 400/460 V ±10% D/Y

Frequenz:

- 50 Hz
- 60 Hz

Thermal class:

- THCL 155

Protection:

- IP54

Motor protection:

- Thermostat relay (TB)

Material of impeller:

- Aluminium die-cast

Painting:

- Fan in color RAL 9005 deep black
- Wall ring plate and suspension in color RAL 9005 deep black

On request:

- Different paintings
- Fan 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**

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bearings for refrigeration applications on request.



fan data

19.12.2022

version FANselect V 1.01 (221216), AMCA V 1.03 September, 2021
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type	FN040-4EK.0F.V7P1
article no.	152728 Portfolio STD-WW

technical data

motor		AC
mains supply	-	1~ 230V 50Hz
nominal current (I_N)	A	1.05
capacitor (C_{400V})	μF	5.0
ambient temperature, max. limit (t_r)	$^{\circ}C$	65
efficiency grade η_{statA}	%	31,1
efficiency grade N_{actual} N_{target}		41,3 40
ErP-conformity		2015
grille influence		pressure side measured

fan data

SFP-class SFP-value (P_{SFP})	- Ws/m^3	1 268
airflow volume (q_v)	m^3/h	2980
pressure, stat. (p_{sF}) tot. (p_F)	Pa	60 85
electrical power input (P_1)	W	222
efficiency grade, stat. (η_{sF}) tot. (η_F)	%	22.4 31.6
fan speed (n) max. (n_{max})	1/min	1358 1422
frequency (f_{DP}) (f_{max})	Hz	50 60
voltage (U_{DP})	V	225
current (I_{DP})	A	0.99
acoustics, suction side ($L_{w(A),5}$) ($L_{w,5}$)	dB	66 72
acoustics, pressure side ($L_{w(A),6}$) ($L_{w,6}$)	dB	69 72
product weight (m_{pr})	kg	5.5

PF:PF_50; BR:BR_13; q_v :3000 m^3/h ; p_{sF} :50 Pa; mains:1~ / 230V / 50 Hz; t_r :40 $^{\circ}C$; size:400 mm; p :1.16 kg/m^3 ; STot:+10 %; BF:



performance curve / acoustics

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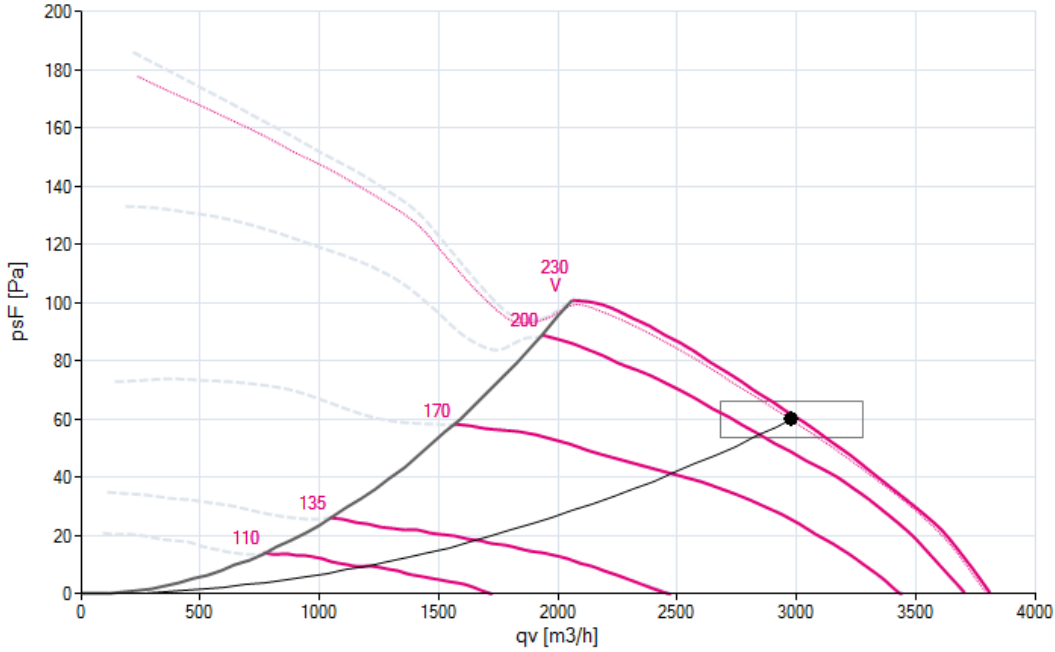
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1 FN040-4EK.0F.V7P1

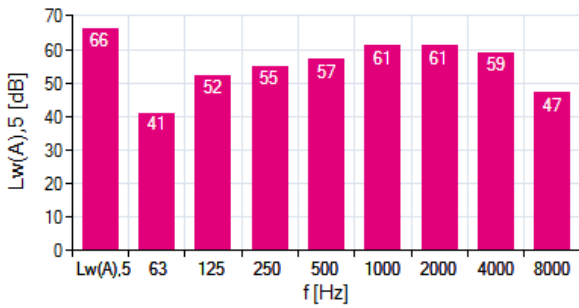
Measured in short nozzle with pressure side guard grille in air flow direction V in installation type A according to ISO5801

152728 | Portfolio STD-WWW measurement density 1.16 [kg/m³]

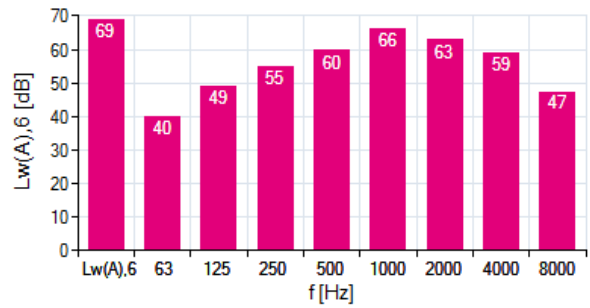
air performance p_{sF}



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



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



1 FN040-4EK.0F.V7P1

f [Hz]	sum	63	125	250	500	1000	2000	4000	8000
$L_{w(A),5}$	66	41	52	55	57	61	61	59	47
$L_{w,5}$	72	66	67	64	60	61	60	58	48

f [Hz]	sum	63	125	250	500	1000	2000	4000	8000
$L_{w(A),6}$	69	40	49	55	60	66	63	59	47
$L_{w,6}$	72	65	65	63	62	66	61	58	48

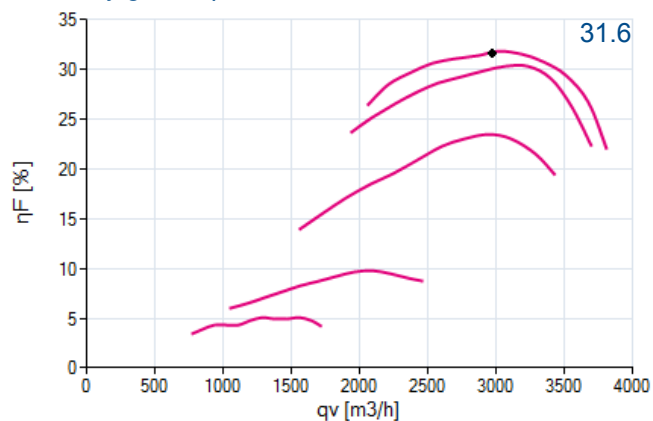


FANselect

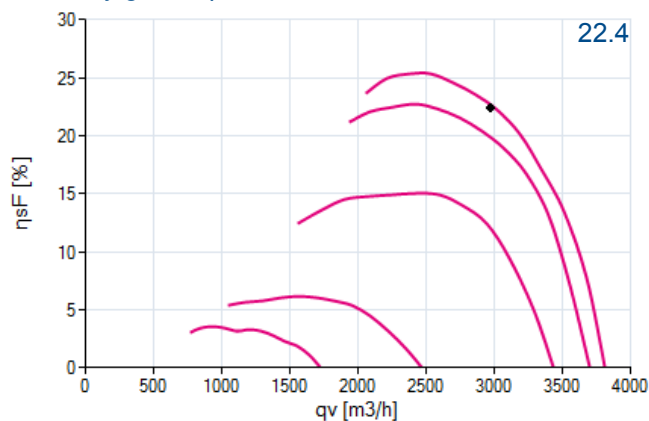
efficiency grade / power input 19.12.2022
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1 **FN040-4EK.0F.V7P1** Measured in short nozzle with pressure side guard grille in air flow direction V in installation type A according to ISO5801
 152728 | Portfolio STD-WWW measurement density 1.16 [kg/m³]

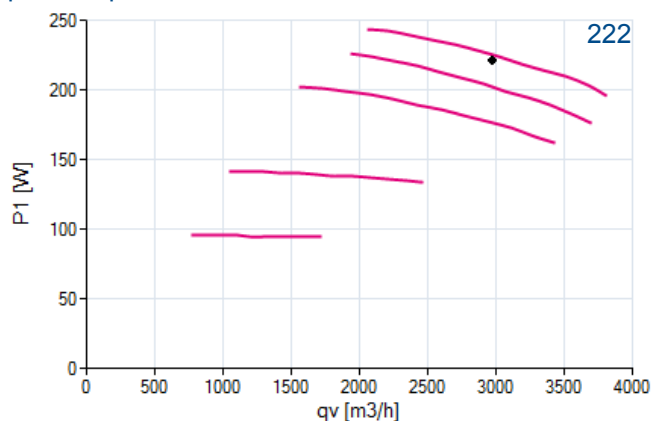
efficiency grade η_F



efficiency grade η_{sF}



power input P_1





nominal values

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152728

1~ 230V +10/-10 50Hz P1 0.24kW
 1.05A DI=15% 1340/MIN 5.0µF/400V 65°C
 1~ 230V +10/-10 60Hz P1 0.33kW
 1.45A DI=5% 1480/MIN 5.0µF/400V 40°C
 IP54 THCL155

drawing

19.12.2022

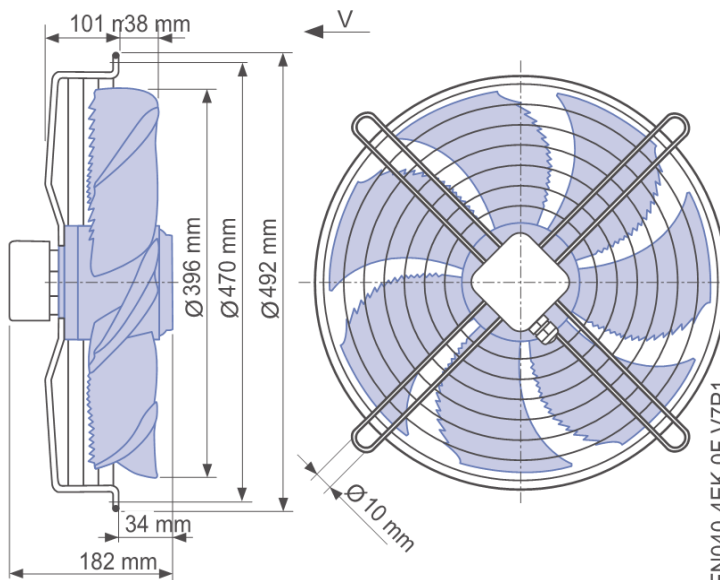
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wiring diagram

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1-Motor mit Kondensator und Thermostatschalter.
 1-Motor with capacitor and thermostatic switch.
 Moteur monophasé avec condensateur et interrupteur thermostatique.

U2 blau oder grau blue or grey bleu ou gris
 Z2 schwarz black noir
 TB braun brown brun

not available
 Rotation à droite



Anschlussschaltbild im Anschlusskasten aufbewahren.
 Keep wiring diagram in terminal box.
 Conserver le schéma de raccordement dans la boîte à bornes.



system components

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19.12.2022



type	FN040-4EK.0F.V7P1
article no.	152728

mechanical component	capacitor housing
	type: GC3
	article no.: 00264065
	capacitor housing
	type: GC4
	article no.: 00264066
	capacitor housing
	type: GC5
	article no.: 00264067
	capacitor housing
type: GC10	
article no.: 00264071	
capacitor housing	
type: GC12	
article no.: 00264072	
capacitor housing	
type: GC2	
article no.: 00264073	
capacitor housing	
type: GC14	
article no.: 00264074	
capacitor housing	
type: GC1,5	
article no.: 00266159	
capacitor housing	
type: GC16	
article no.: 00308236	