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FN063-VDK.6N.V7P6 | 169011 | Portfolio STD-WW G1 | FE2owlet AC ERM

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

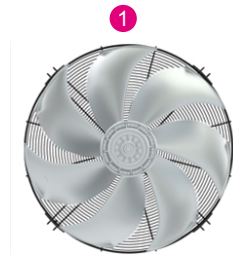
***Continuous operation with occasional starts (S1) according to DIN EN 60034-1: 2011-02. Occasional starting between -35 ° C and -25 ° C is permissible. Permanent operation below -25 ° C only possible with special bearings for refrigeration applications on request.**



fan data

31.05.2022

version FANselect V 1.01 (220531), AMCA V 1.03 September, 2021
RLT V 1.00 Dezember, 2021 / 1.22.05.31 | 57070 | (user ZAFS47070)



type	FN063-VDK.6N.V7P6
article no.	169011 Portfolio STD-WW G1

technical data

motor		AC ERM
mains supply	-	3~ 400V 50Hz Y
nominal current (I_N)	A	2.20
ambient temperature, max. limit (t_r)	°C	70
efficiency grade η_{statA}	%	37,5
efficiency grade N_{actual} N_{target}		42,5 40
ErP-conformity		2015
grille influence		pressure side measured

fan data

frequency (f_{BP}) (f_{max})	Hz	50 60
product weight (m_{pr})	kg	28.1

PF:PF_00; Type:fn063; STol:+-10 %

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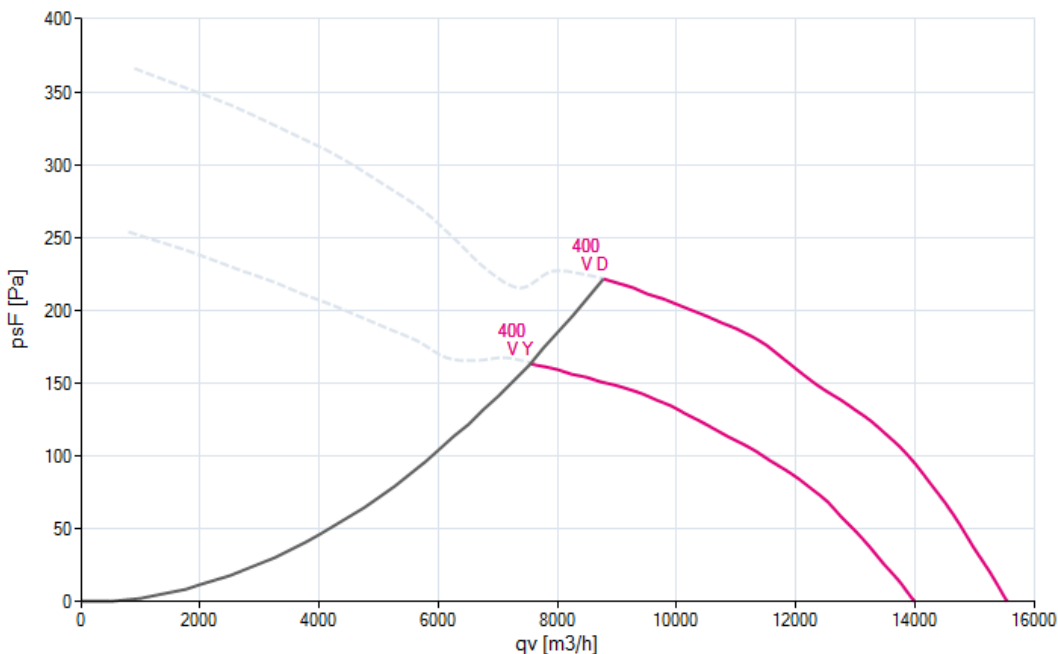
performance curve / acoustics

31.05.2022

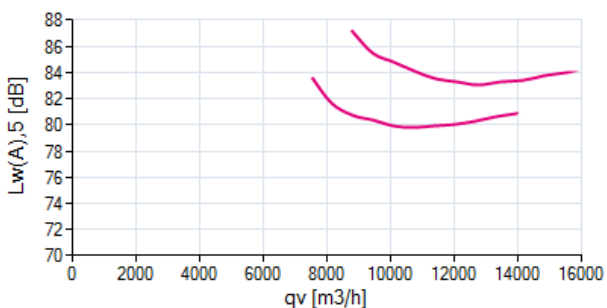
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1 FN063-VDK.6N.V7P6 Measured in short nozzle with pressure side guard grille in air flow direction V in installation type A according to ISO5801
 169011 | Portfolio STD-WW measurement density 1.16 [kg/m³]
 G1

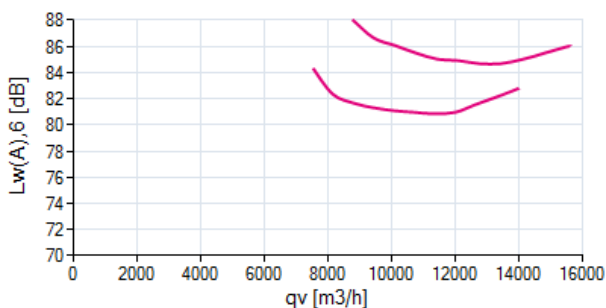
air performance p_{sF}



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



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



1 FN063-VDK.6N.V7P6									
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
$L_{w(A),6}$	-	-	-	-	-	-	-	-	-
$L_{w,6}$	-	-	-	-	-	-	-	-	-

efficiency grade / power input

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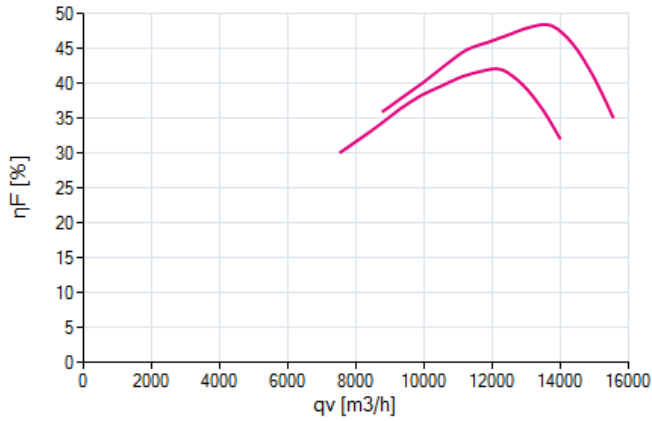
FN063-VDK.6N.V7P6

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

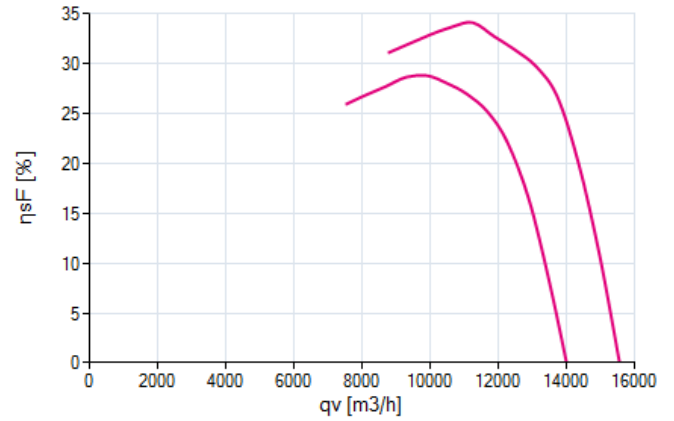
 169011 | Portfolio STD-WW
G1

measurement density 1.16 [kg/m³]

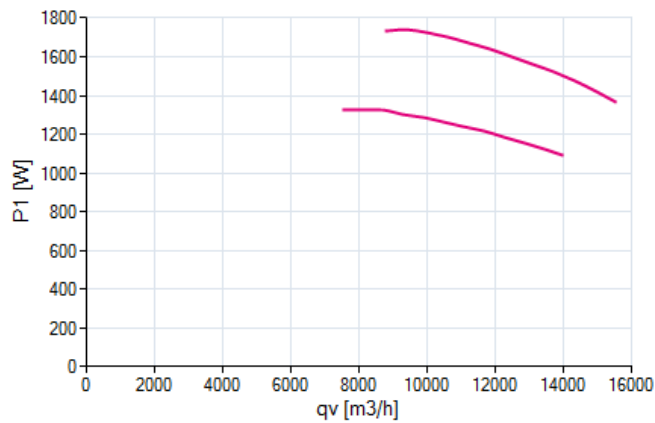
efficiency grade η_F



efficiency grade η_{sF}



power input P_1





nominal values

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3~ 400V +10/-10 D/Y 50Hz P1 1.75/1.35kW P2 1.35/0.92kW
 3.70/2.20A DI=5% 1400/1210/MIN COSY 0.68 70°C
 3~ 400V +10/-10 D/Y 60Hz P1 2.80/1.80kW P2 2.00/0.92kW
 4.80/3.00A DI=5% 1580/1210/MIN COSY 0.84 60°C
 3~ 460V +10/-10 D/Y 60Hz P1 2.90/2.10kW P2 2.20/1.20kW
 4.60/3.00A DI=10% 1640/1330/MIN COSY 0.80 60°C
 IP54 THCL155

drawing

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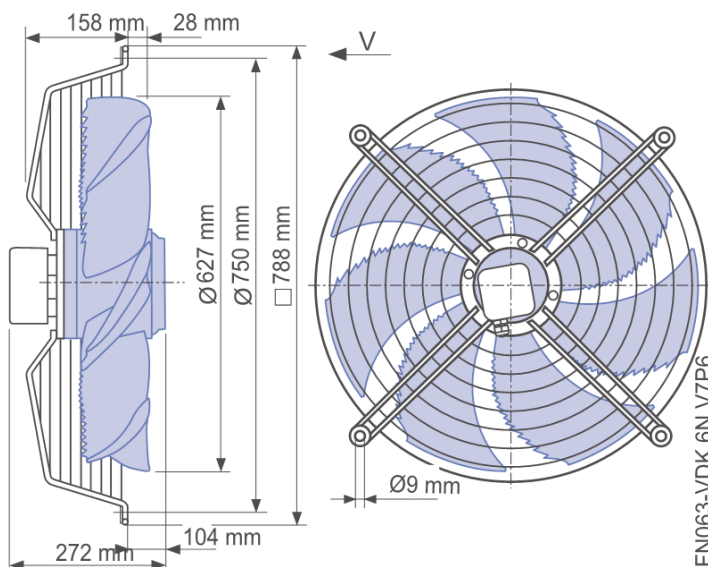
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wiring diagram

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

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



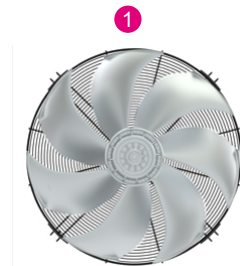
Anschlussschaltbild im Anschlusskasten aufbewahren.
 Keep wiring diagram in terminal box.
 Conserver le schéma de raccordement dans la boîte à bornes.



system components

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article no.	169011



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

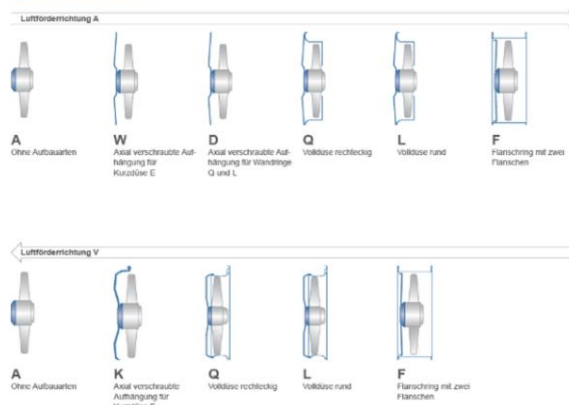
System components

Guard grille, inlet rings, control technology

Technical data

Fan type	_____	
Fan size (Ø)	_____	mm
Design	_____	
Air flow (q_v)	_____	m ³ /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

Bauformen



Further designs on request

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

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Life-Cycle-Costs

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type **article no.**

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costs		
1 years	EUR	0
2 years	EUR	0
3 years	EUR	0
4 years	EUR	0
5 years	EUR	0

load profile			
hours at	% of n duty		
1000	100	%	
1000	50	%	
1000	25	%	
		%	
5760	hours remaining time		
energy costs	0.10	EUR/kWh	
price rise	00	%	

