1



FN056-VDK.4M.V7P2 | 159443 | Portfolio STD-WW G1 | FE2owlet AC ER

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.**

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## 风机数据

18.06.2020

版本 FANselect V 1.01 (200617), AMCA V 1.03 February, 2019 / 1.20.06.17 | 27391 | (用户 ZAFS17391)

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| | | |
|---|---|---|
| 类型 | | FN056-VDK.4M.V7P2 |
| 编号 article no. | | 159443 \| Portfolio STD-WW G1 |

### 技术参数

| | | |
|---|---|---|
| 马达 | | AC ERM |
| 主电源 | - | 3~ 400V 50Hz Y |
| 额定电流 ($I_N$) | A | 1.10 |
| 环境温度 ($t_r$) | °C | 70 |
| 效率 $\eta_{statA}$ | % | 33,7 |
| 效率 $\mathbf{N_{实际}}$ \| $N_{目标}$ | | **40,1** \| 40 |
| ErP-等级 | | 2015 |
| grille \| influence | | pressure side \| measured |

### 风机数据

| | | |
|---|---|---|
| 频率 **($f_{BP}$)** \| ($f_{max}$) | Hz | **50** \| 60 |
| 重量 | kg | 15.4 |

PF:PF_00; Ano:159443; STol:+-10 %

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## 性能曲线 / 噪音

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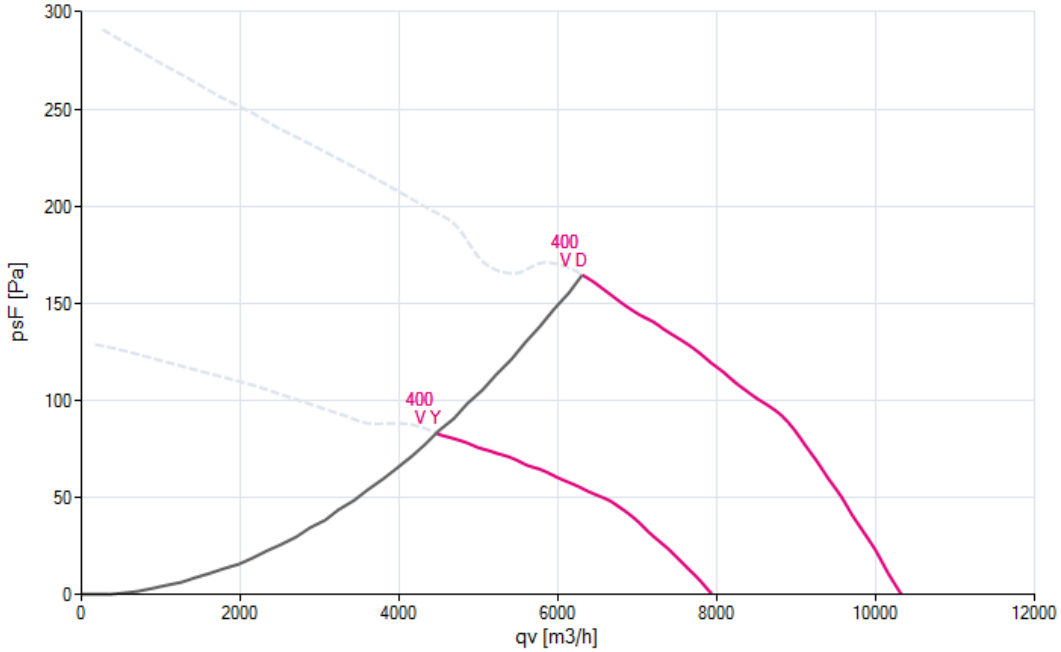
1 FN056-VDK.4M.V7P2

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

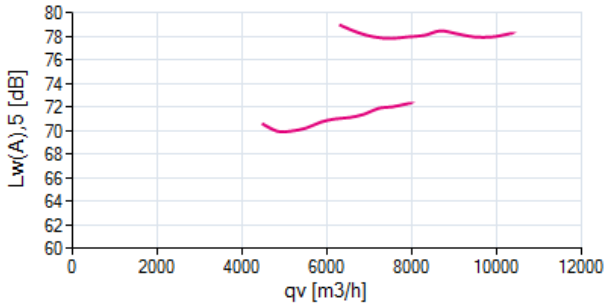
159443 | Portfolio STD-WW G1

测量密度 1.16 [kg/m³]

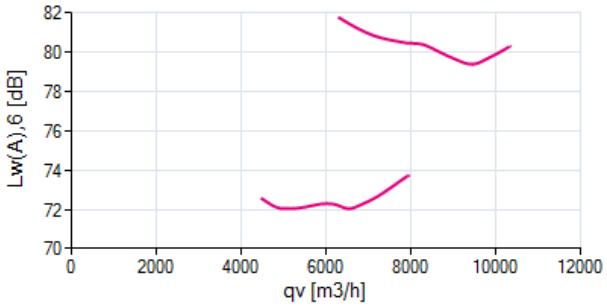
### 空气性能 $p_{sF}$




### 噪音值 ($L_{w(A),5}$)




### 噪音值 ($L_{w(A),6}$)




**1 FN056-VDK.4M.V7P2**

| 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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## 效率 / 功率

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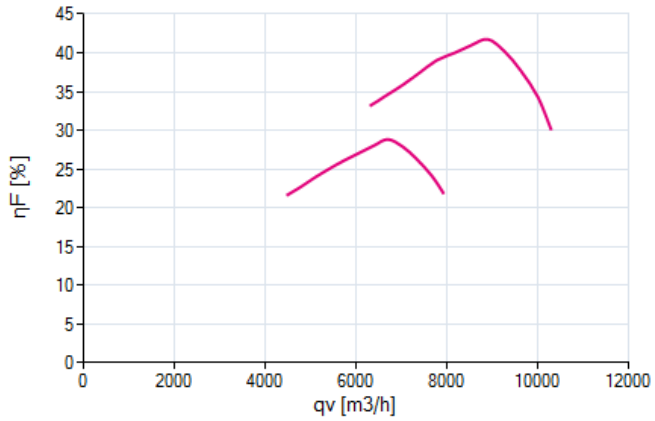
1 FN056-VDK.4M.V7P2

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

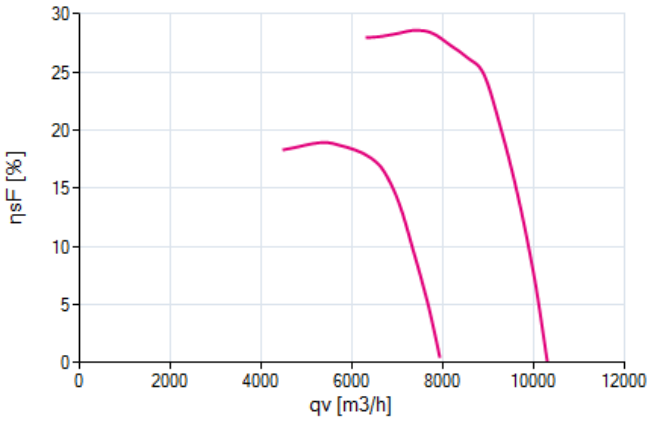
159443 | Portfolio STD-WW G1

测量密度 1.16 [kg/m³]

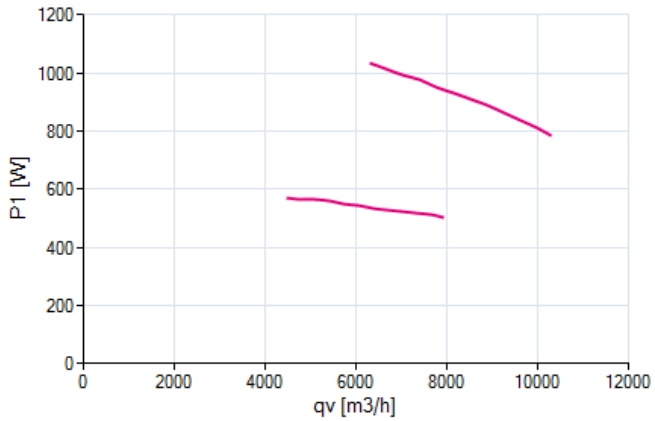
### 效率 $\eta_F$




### 效率 $\eta_{sF}$




### 功率 $P_1$



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## 标称值

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FN056-VDK.4M.V7P2

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3~ 400V +10/-10 D/Y 50Hz P1 1.05/0.58kW P2 0.73/0.26kW
2.20/1.10A DI=0% 1280/910/MIN COSY 0.68 70°C
3~ 400V +10/-10 D/Y 60Hz P1 1.35/0.58kW P2 0.80/0.20kW
2.60/1.15A DI=0% 1320/830/MIN COSY 0.73 55°C
3~ 460V +10/-10 D/Y 60Hz P1 1.55/0.72kW P2 1.00/0.30kW
2.70/1.25A DI=0% 1430/950/MIN COSY 0.72 55°C
IP54 THCL155

## 图纸

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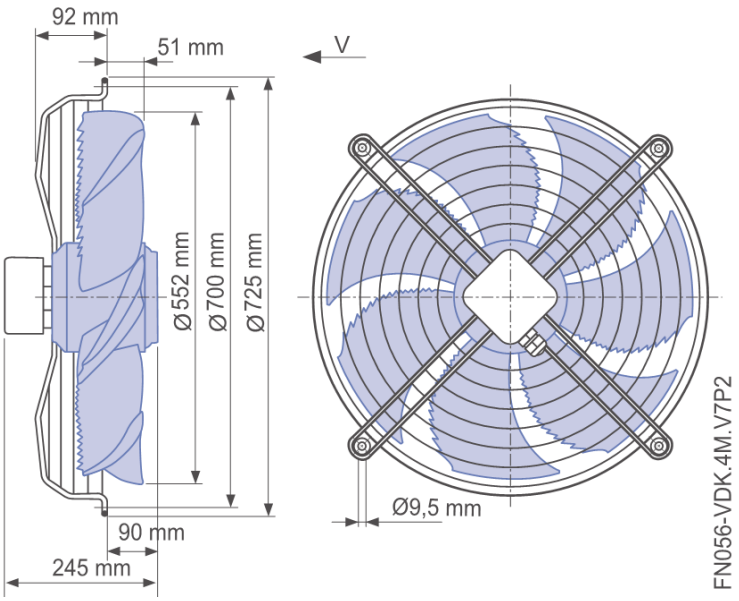
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FN056-VDK.4M.V7P2

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## 接线图

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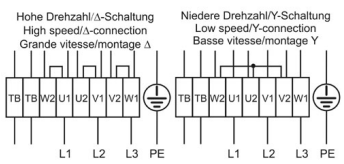
3~ Motor mit 2 Drehzahlen(Δ/Y-Umschaltung) und Thermostatschalter (falls eingebaut). Ohne Brücke bei Verwendung von Drehzahlumschalter.

3~ motor, 2 speeds (Δ/Y switch over) with thermostatic switch (if built in). Without bridge when using speed change-over switch.

Moteur triphasé à 2 vitesses (Δ/Y-commutation) avec interrupteur thermostatique (si incorporé). Les pièce de connexion sont a supprimer avec l´utilisation d´un commutateur de vitesse.

| | | | |
|---|---|---|---|
| U1 | braun | brown | brun |
| V1 | blau | blue | bleu |
| W1 | schwarz | black | noir |
| U2 | rot | red | rouge |
| V2 | grau | grey | gris |
| W2 | orange | orange | orangé |
| TB | weiß | white | blanc |

108XA-02




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

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## 附件

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| | |
|---|---|
| 类型 | FN056-VDK.4M.V7P2 |
| 编号 article no. | 159443 |

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 ($\Delta p_{sF}$)** | | **Pa** |
| **Rated voltage (U)** | | **V** |
| **Mains frequency (f)** | | **Hz** |
| **Rated power ($P_N$)** | | **kW** |
| **Efficiency ($\eta_{sF}$)** | | **%** |
| **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.

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版本 FANselect V 1.01 (200617), AMCA V 1.03 February, 2019 / 1.20.06.17 | 27391 | (用户 ZAFS17391)

| 类型 | 编号 article no. |
|---|---|
| ① FN056-VDK.4M.V7P2 | 159443 |

| | ① |
|---|---|

| 费用 | | |
|---|---|---|
| 1 年 | EUR | 0 |
| 2 年 | EUR | 0 |
| 3 年 | EUR | 0 |
| 4 年 | EUR | 0 |
| 5 年 | EUR | 0 |

| 负荷特性 | | |
|---|---|---|
| 小时数 | n工况的% | |
| 1000 | 100 | % |
| 1000 | 50 | % |
| 1000 | 25 | % |
| | | % |
| 5760 | 剩余小时数 | |
| 能耗成本 | 0.10 | EUR/kWh |
| 价格上升 | 00 | % |

