

Movement by Perfection



The Royal League in **ventilation**, control and drive technology



Product documentation

Type  
FN063-4DK.6N.V7P6

Article number  
163702

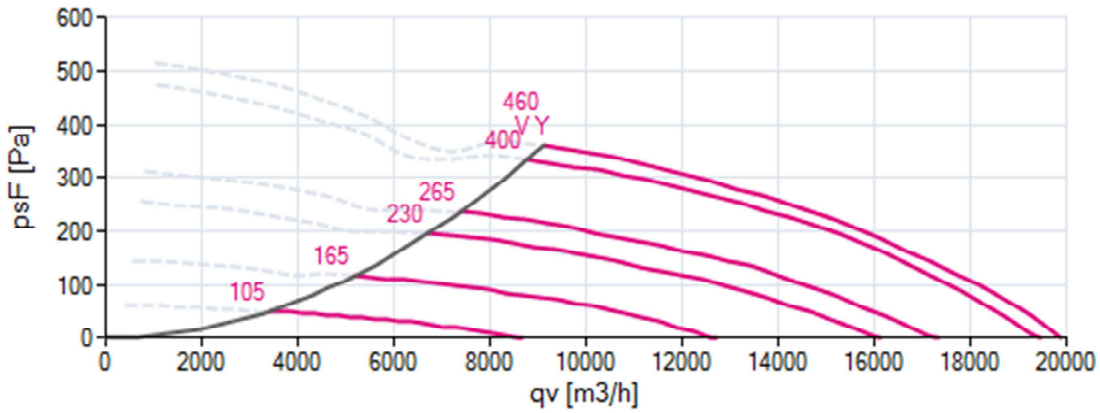
### 1. Product specification

#### Technical data

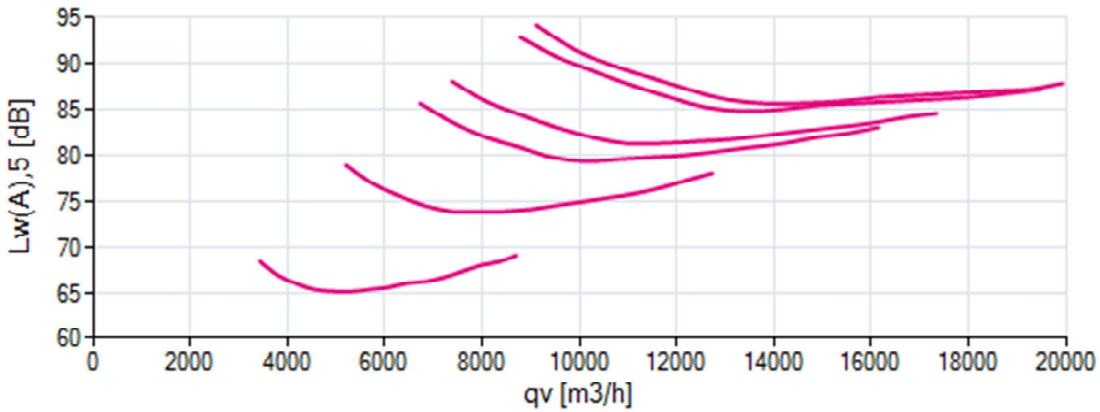
|                               |   |
|-------------------------------|---|
| Article number                | 163702  |
| Type                          | FN063-4DK.6N.V7P6   |
| Designation                   | Axial fan with sickle blades  |
| Rated values                  | 3~230/400V±10% D/Y 50Hz P <sub>1</sub> 1,75kW<br>6,40/ 3,70A ΔI=5% 1400/min COSY 0,68 70°C<br>3~230/400V±10% D/Y 60Hz P <sub>1</sub> 2,80kW<br>8,40/ 4,80A ΔI=5% 1580/min COSY 0,84 60°C<br>3~265/460V±10% D/Y 60Hz P <sub>1</sub> 2,90kW<br>8,00/ 4,60A ΔI=10% 1640/min COSY 0,80 60°C |
| Electrical connection         | Terminal box K62  |
| Min. operating temperature °C | -40   |
| Mounting type terminal box    | Mounted on Stator   |
| Type of protection            | IP54  |
| Thermal class                 | THCL155   |
| Connection diagram            | 1360-106XA  |
| Rating plate                  | 1x fixed  |
| Fitting position              | H/Vu/Vo   |
| Motor protection              | thermal contact   |
| Impregnation                  | Moisture and hot climate protection   |
| Quality of bearings           | ball bearing with long-time lubrication   |
| Material Rotor                | Aluminium   |
| Painting rotor                | unpainted   |
| Material blades               | Aluminium   |
| Painting impeller             | unpainted   |
| Field of application          | Standardanwendung   |
| Guard grille type             | ring grill  |
| Painting mot.suspens          | Motor suspension powder-coated<br>consistency class 2   |
| colour suspension             | RAL 9005 (jet black)  |
| Weight kg                     | 28,10   |
| ErP Data                      | Efficiency $\eta_{statA}$ : 37,5 %<br>Efficiency: $N_{actual} = 42,5 / N_{target} = 40^*$<br>*ErP 2015  |

## 2. Characteristic Curve

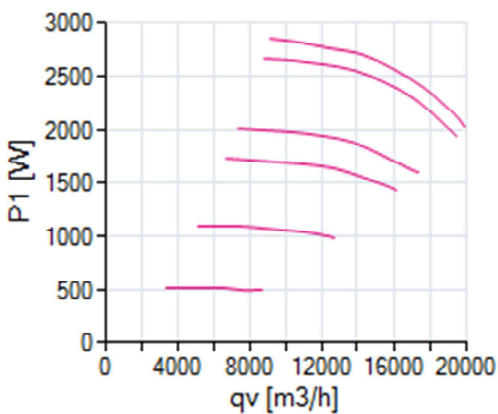
### Air performance



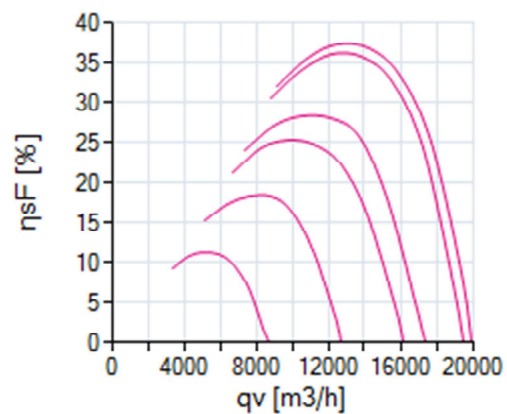
### Acoustics



### Power input



### Efficiency



measured in full bell mouth without guard grille in installation type A according to ISO 5801

Please note: It's not allowed to use this fan in the stall area!\*

\*In doubt please ask your responsible ZIEHL-ABEGG sales contact.

Article number  
163702

# The Royal League

## Die Königsklasse

### Data of operating point

|                        |                |
|------------------------|----------------|
| frequency ( $f_{BP}$ ) | 60             |
| mains supply           | 3~ 460V 60Hz Y |
| guard grille           | no             |



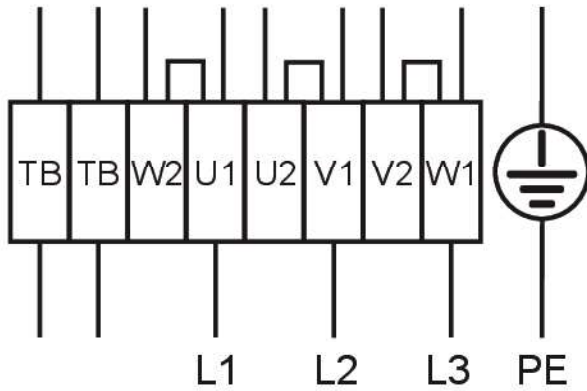
### 4. Connection diagram

#### 1360-106XA

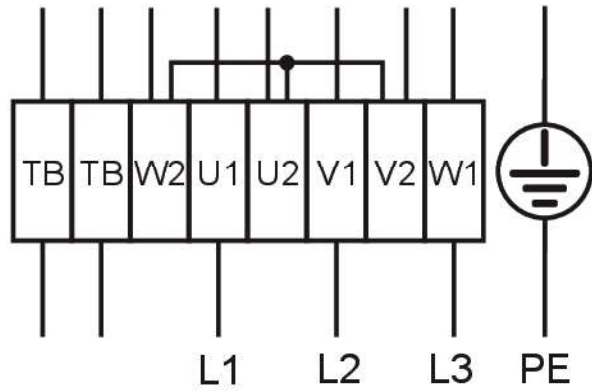
3~ motor with one speed and thermostatic switch (if built in).

- U1 brown
- V1 blue
- W1 black
- U2 red
- V2 grey
- W2 orange
- TB white

Δ-connection



Y-connection



### 5. EU-Declaration of conformity

#### EC-Declaration of conformity

- Translation -  
(english)  
ZA75-GB 1616 Index 011  
00285644-GB

**Manufacturer:** ZIEHL-ABEGG SE  
Heinz-Ziehl-Straße  
74653 Künzelsau  
Germany

The manufacturer is solely responsible for issuance of the declaration of conformity.

**The products:**

- External rotor motor MK..., MW..
- Axial fan FA..., FB..., FC..., FE..., FF..., FS..., FT..., FH..., FL..., FN..., FV..., DN..., VR..., VN..., ZC..., ZF..., ZN..
- Centrifugal fan RA..., RD..., RE..., RF..., RG..., RH..., RK..., RM..., RR..., RZ..., GR..., ER..
- Cross-flow fan QK..., QR..., QT..., QG..

**The engine type:**

- Asynchronous internal or external rotor motor
- Asynchronous internal or external rotor motor with integrated frequency inverter, except EDP system
- Electronically commutated (EC) internal or external rotor motor
- Electronically commutated internal or external rotor motor with integrated EC Controller, except EDP system

**These products comply with the following EU directives:**

- EMC Directive 2014/30/EU
- Low voltage directive 2014/35/EU
- ErP Directive 2009/125/EC, in conjunction with Regulation (EU) no. 327/2011

**The following harmonized standards are in use:**

EN 60034-1:2010 + Cor.:2010                      EN 61000-6-3:2007 + A1:2011 + AC:2012  
EN 60204-1:2006 + A1:2009 + AC:2010            EN 61000-6-2:2005 + AC:2005  
EN 60529:1991 + A1:2000 + A2:2013

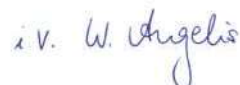
Compliance with the ErP Directive 2009/125/EC does not refer to external rotor motors MK..., MW..

All ErP-relevant information comprises measurements which are determined using a standardised measurement set-up. More details can be obtained from the manufacturer.

Compliance with the EMC Directive 2014/30 / EU refers only to those products when they are connected by mounting / operating instructions . If these products are integrated into a system or supplemented with other components (eg. sensing controls) and operated , the manufacturer or operator is responsible of the overall system for compliance with the EMC Directive 2014/30 / EU .

Künzelsau, 20.04.2016  
(Location, date of issue)

ZIEHL-ABEGG SE  
Dr. W. Angelis  
Technical Director Air Movement Division  
(Name, Function)



(Signature)





The Royal League in ventilation, control and drive technology

## Intelligent control technology for any application

**ZIEHL-ABEGG system capabilities:  
Everything from a single source – perfectly matched for optimal performance**

Please contact us. We would be pleased to design an individual solution for your requirements.

We would like to welcome you on our worldwide exhibitions. Please find our next exhibitions [here](#).