

Movement by Perfection



The Royal League in ventilation, control and drive technology



Product documentation

Type  
FB063-6EK.4I.V4P

Article number  
101680

## Product documentation

Customer  
AIREFRIG AUSTRALIA

ZIEHL-ABEGG Contact  
Sam Bhattarai

Project  
Axial Fan

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## 1. Product specification – Technical data

Article number	101680
Type	FB063-6EK.4I.V4P
Designation	Axial fan with sheet blades
Rated values	1~230V $\pm 10\%$ 50Hz P <sub>1</sub> 0.63kW 3.0A $\Delta I = 0\%$ 860/min 12.0uF/400V 40°C
Electrical connection	Terminal box K62
ErP Data	Efficiency $\eta_{statA}$ : 28.3 % Efficiency grade: N <sub>actual</sub> = 36.1 / N <sub>target</sub> = 36* *ErP 2013* Does not comply with the stipulations of the ErP regulations
Type of protection	IP54
Thermal class	THCL155
Mounting type terminal box	Mounted on Stator
Connection diagram	1360-104XA
Rating plate	1x fixed
Fitting position	H/Vu/Vo
Motor protection	thermal contact
Impregnation	Moisture and hot climate protection
Condensation	Condensation water holes in stator/rotor open
Quality of bearings	ball bearing with long-time lubrication
Material Rotor	Aluminium
Painting rotor	Rotor 1 coat paint resistance class 1 (L-TI-0596)
colour rotor	RAL 9005 (jet black)
painting stator	Stator 1 coat paint resistance class 1 (L-TI-0596)
colour stator	RAL 9005 (jet black)
Material blades	Aluminium
Painting impeller	Impeller 1 coat paint resistance class 1 (L-TI-0596)
Colour blades	RAL 9005 (jet black)
Painting mot.suspens	Motor suspension 1 coat paint resistance class 1 (L-TI-0596)
colour suspension	RAL 9005 (jet black)
Weight	12.80

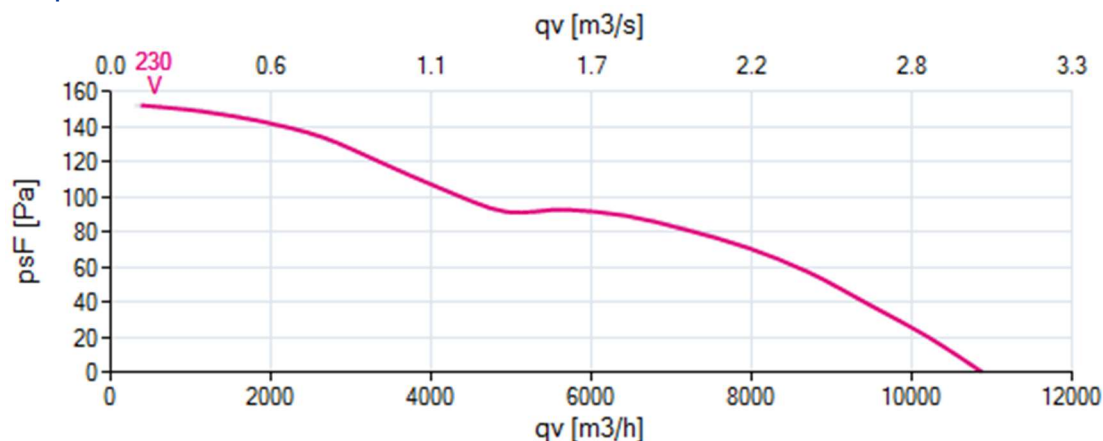
## 2. Characteristic Curve

FB063-6EK.4I.V4P

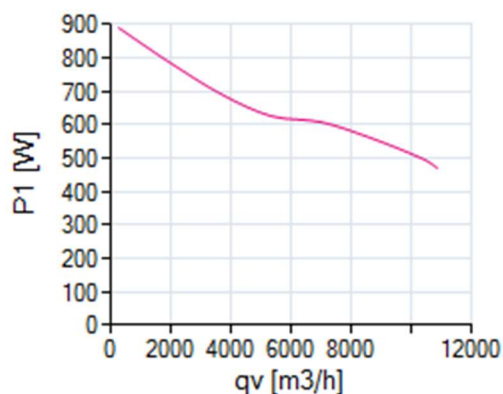
1~ 230V 50Hz

measurement density 1,16 kg/m<sup>3</sup>

### Air performance



### Power input



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

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

### Data of operating point

frequency (f <sub>BP</sub> )	50	Hz
mains supply	1~ 230V 50Hz	
ErP-conformity	nein (2013)	
guard grille	no	

**Förderrichtung V**  
**Airflow direction V**

B-B  
1:2  
nach Skizze  
by List of parts

oder  
or

1:10

ZEICHNUNGSNR.	BENENNUNG	B1	B2	B3	B4	B5	WEIGHT -
12063-K403.1	FB063-...K.4F.V4L	14.1.0	40.0	205.0	81.0	68.0	11.1
12063-K403.2	FB063-...K.4I.V4L	16.1.0	40.0	225.0	81.0	88.0	12.8
12063-K403.3	FB063-...K.4F.V4P	14.1.0	46.5	205.0	96.0	68.0	11.1
12063-K403.4	FB063-...K.4I.V4P	16.1.0	46.5	225.0	96.0	88.0	12.8
12063-K403.5	FB063-...K.4F.V4S	14.1.0	52.5	205.0	110.0	68.0	11.1
12063-K403.6	FB063-...K.4I.V4S	16.1.0	52.5	225.0	110.0	88.0	12.8

drawing number title

Model illustration 12063-K403.4  
model illustration 12063-K403.4

Ausgabesicherheit safety certificate	Kundenzeichnung customer drawing	Motor 106
Motor 004, L-05 Date 09.07.2018 Ersteller nck/as1 Gezeichnet sieber geprüft Nicht in ein Zeichnung / part number 12063-K403 Blatt sheet 1/1		

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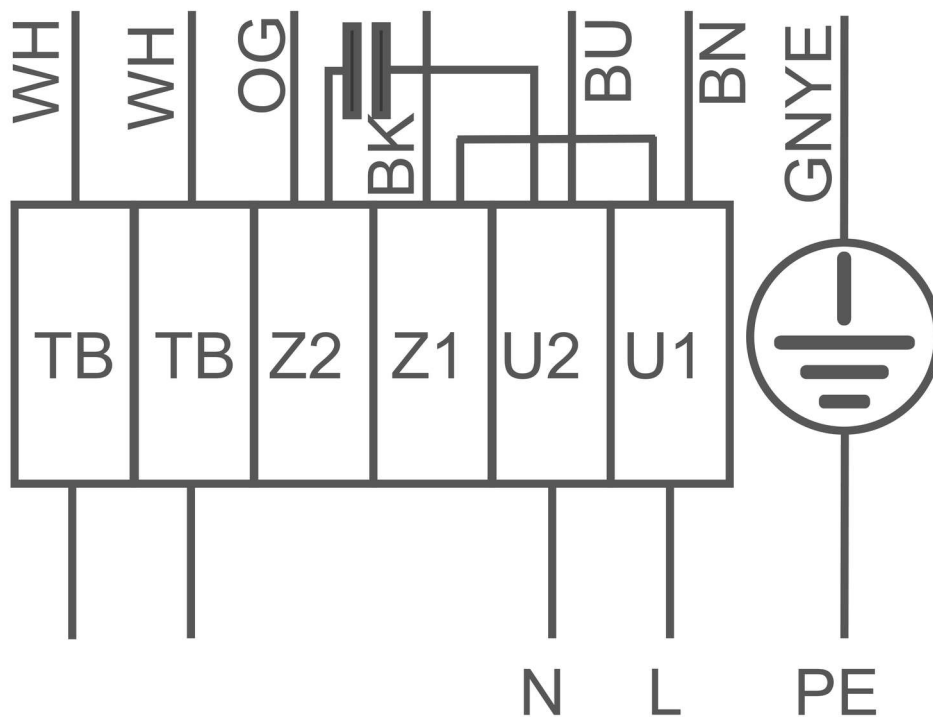
## 4. Connection diagram

### 1360-104XA

1~Motor with capacitor and thermostatic switch (if built in).

BN brown  
BU blue  
BK black  
OG orange  
WH white  
GNYE green-yellow

Clockwise rotation



## 5. EU-Declaration of conformity

### EU declaration of conformity

- Translation -  
(english)

ZA75-GB 1910 Index 015

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

#### The motor type:

- Asynchronous internal or external rotor motor
- Asynchronous internal or external rotor motor with integrated frequency inverter
- Electronically commutated internal or external rotor motor
- Electronically commutated internal or external rotor motor with integrated EC controller

#### 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 harmonised standards have been used:

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

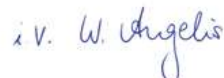
Compliance with the ErP Directive 2009/125/EC does not refer to external rotor motors MK..., MW..

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 (e.g. sensing controls) and operated, the manufacturer or operator is responsible of the overall system for compliance with the EMC Directive 2014/30/EU.

Künzelsau, 05.03.2019  
(location, date of issue)

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



(Signature)

ZIEHL-ABEGG SE  
Dr. D. Kappel  
Deputy Head of Electrical Systems  
(name, function)



(Signature)

ZIEHL-ABEGG 



### EC Declaration of Incorporation

as defined by the EC Machinery Directive 2006/42/EC, Annex II B

The design of the incomplete machine:

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

Motor type:

- Induction internal or external rotor motor (also with integrated frequency inverter)
- Electronically commutated internal or external rotor motor (also with integrated EC controller)

complies with the requirements in Appendix I, Articles 1.1.2, 1.1.5, 1.4.1, 1.5.1 in EG Machinery Directive 2006/42/EG.

Manufacturer

ZIEHL-ABEGG SE  
Heinz-Ziehl-Strasse  
D-74653 Künzelsau

The following harmonised standards have been used:

EN 60204-1:2006+A1:2009	Safety of machinery; electrical equipment of machines; Part 1: General requirements
EN ISO 12100:2010	Safety of machinery - General principles for design - Risk assessment and risk reduction
EN ISO 13857:2008	Safety of machinery; safety distances to prevent danger zones being reached by the upper limbs
Note:	The maintenance of the EN ISO 13857:2008 relates only to the installed accidental contact protection, provided that it is part of the scope of delivery.

The specific technical documentation in accordance with Appendix VII B has been written and is available in its entirety.

The person authorised for compiling the specific technical documentation is: Dr. W. Angelis, address see above. The specific documentation will be transmitted to the official authorities on justified request. The transmission can be electronic, on data carriers or on paper. All industrial property rights remain with the above-mentioned manufacturer.

**It is prohibited to commission this incomplete machine until it has been secured that the machine into which it was incorporated complies with the stipulations of the EC Machinery Directive.**

Künzelsau, 12.12.2017

Dr. W. Angelis - Technical Director Ventilation Division

*Dr. W. Angelis*

ZAZA87-GB-1750 Index 007

1

english

ZIEHL-ABEGG 





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](#).