

Movement by Perfection



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



#### Product documentation

Type  
FB056-4DK.4I.V4L

Article number  
135941

## Product documentation

Customer

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ZIEHL-ABEGG Contact  
Alessandro Sasso

Project

-

ZIEHL-ABEGG Subsidiary  
Italy  
ZIEHL-ABEGG Italia S.r.l.  
Via Primo Maggio 10  
30031 DOLO (VE)  
ITALY  
Phone +39 041 5130-311  
Fax +39 041 5131-953  
[www.ziehl-abegg.it](http://www.ziehl-abegg.it)  
[info@ziehl-abegg.it](mailto:info@ziehl-abegg.it)

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### 1. Product specification

#### Technical data

Article number	135941
Type	FB056-4DK.4I.V4L
Designation	Axial fan with sheet blades
Rated values	3~230/400V±10% D/Y 50Hz P <sub>1</sub> 0,72kW 2.70/ 1.55A 1300/min COSY 0,68 70°C 3~230/400V±10% D/Y 60Hz P <sub>1</sub> 1,00kW 1400/min COSY 0,74 40°C 3~265/460V±10% D/Y 60Hz P <sub>1</sub> 1,15kW 3,40/ 1,95A1480/min COSY 0,74 40°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	Rotor 1 coat painted
colour rotor	RAL 9005 (jet black)
Material blades	Aluminium
Painting impeller	1 coat painted
Colour blades	RAL 9005 (jet black)
Control	--
Painting mot.suspens	Motor suspension 1 coat paint
colour suspension	RAL 9005 (jet black)
Weight kg	12,20
ErP Data	Efficiency $\eta_{\text{statA}}$ : 34,2 % Efficiency grade: $N_{\text{actual}} = 41,8 / N_{\text{target}} = 40^*$ *ErP 2015

## 2. Characteristic curve



**FB056-4DK.4I.V4L (AN. 135941)**

### Volumenstrom

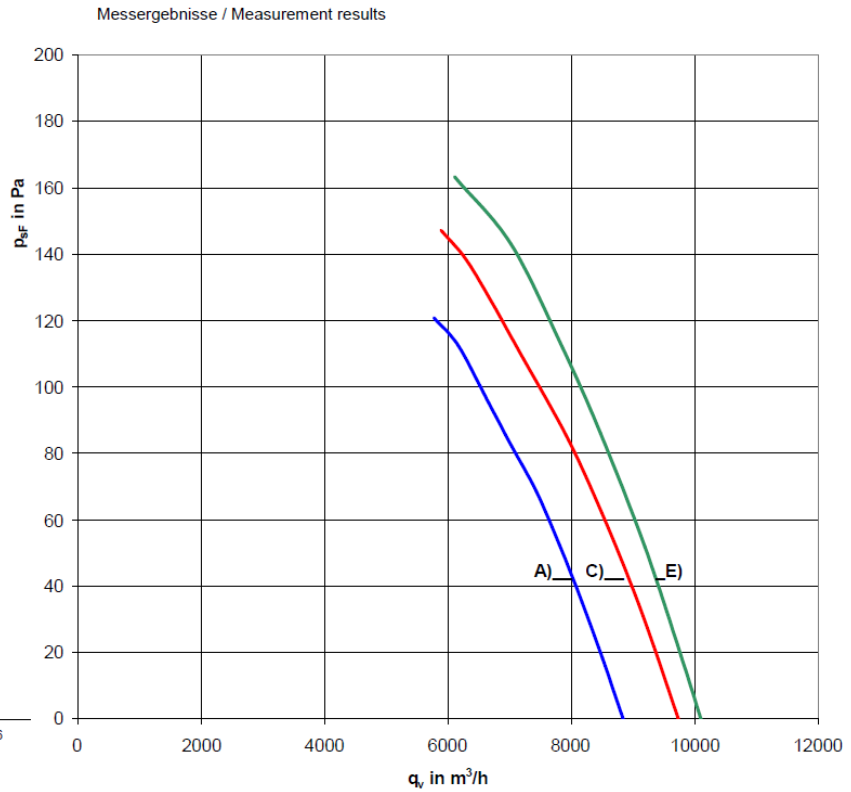
Stempeldaten (FB056-4DK.4I.V4L):  
3~ 230/400V ±10% D/Y 50Hz P1 0,72kW  
2,7/1,55A 1300/Min COSY 0,68 70°C  
3~ 230/400V ±10% D/Y 60Hz P1 1,0kW  
3,4/1,95A 1400/Min COSY 0,74 40°C  
3~ 265/460V ±10% D/Y 60Hz P1 1,15kW  
3,4/1,95A 1480/Min COSY 0,74 40°C  
geschlossen Thermische Klasse 155

Messaufbau:  
Ventilator in Kurzdüse montiert und druckseitig zusätzlich  
Berührschutzgitter vorhanden

Kennlinien:  
A) FB056-4DK... 3~ 400V 50Hz Y  
C) FB056-4DK... 3~ 400V 60Hz Y  
E) FB056-4DK... 3~ 460V 60Hz Y

Gerechnete Kennlinien, die den üblichen Toleranzen unterliegen.

fb0564dk4i6iv001 / fb0564dk4i6iv002 / mk1064dd14xxm016  
20.04.2009 hanj / V-STA



# The Royal League Die Königsklasse

## 3. Drawing

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

**A-A**  
1:2

**1:10**

drawing number	title	size	BAUGR	B1	B2	B3	B5	W	MASSE
ZEICHNUNGSNR	BENENNUNG								
12056-K403.1	FB056-__K.4F.V4L	106-50	141.3	205.3	41.5	66.3	25°	10.4	
12056-K403.2	FB056-__K.4F.V4P	106-50	141.3	205.3	47.5	66.3	30°	10.4	
12056-K403.3	FB056-__K.4F.V4S	106-50	141.3	205.3	52.5	66.3	35°	10.4	
12056-K403.4	FB056-__K.4I.V4L	106-70	161.3	225.3	41.5	88.3	25°	12.2	
12056-K403.5	FB056-__K.4I.V4P	106-70	161.3	225.3	47.5	88.3	30°	12.2	
12056-K403.6	FB056-__K.4I.V4S	106-70	161.3	225.3	52.5	88.3	35°	12.2	

Modelldarstellung 12056-K403.4  
model illustration 12056-K403.4

ZIEHL-ABEGG	Alle Rechte vorbehalten	Maßstab	1:5	Motor	106
This drawing is property of ZIEHL-ABEGG SE. The reproduction, distribution and utilization is subject to authorization. All rights reserved.	3	Modifikation	01.07.2015	Kundenzeichnung	
	entstellt	gegründet	08.07.2015	FB056-__K.4I.V4_	
	geändert	Norm	01.07.2015	Zeichnungsnummer	12056-K403
	strichlos			Zeichnungsart	
				Teilnummer	
				Blatt	1
				Blattanzahl	3

Wichtige sein: Verwendete Maße dieses Dokuments. Messung und Prüfung dieser Maße sind verbindlich. Änderungen vorbehalten. Alle Maße für den Fall der Papier-, Gesamtmaße- oder Gesamtmaße-Veränderung.

Dimensions in mm

Shown drawing is just to show the dimensions of the fan.

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29/10/2018 10:45:02

Movement by Perfection | Bewegung durch Perfektion

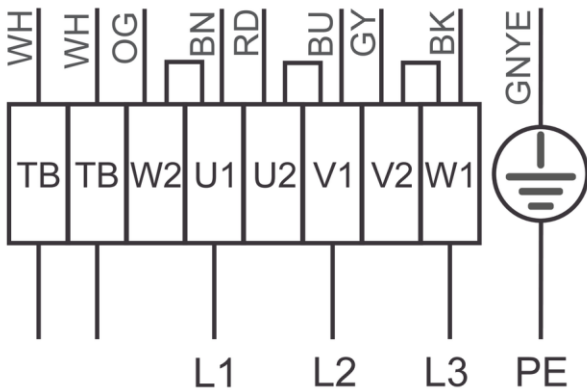
### 4. Connection diagram

#### 1360-106XA

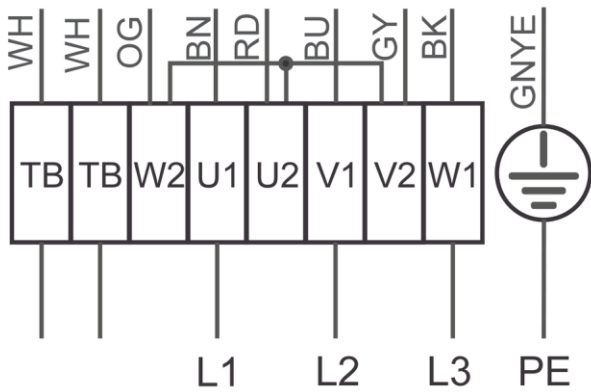
3~ motor with one speed and thermostatic switch (if built in).

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

$\Delta$ -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 Die Königsklasse



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](#).