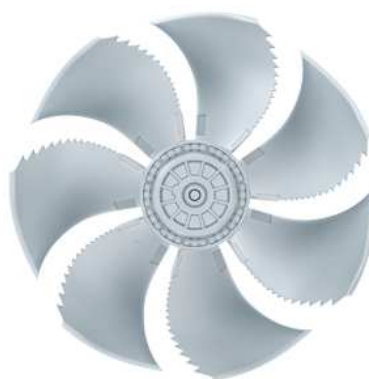


Movement by Perfection



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



### Product documentation

Type  
FN050-VDK.4I.V7P1

Article number  
156916

## Product documentation

Customer  
Friterm

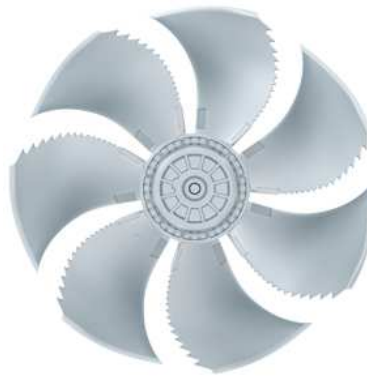
ZIEHL-ABEGG Contact  
Christoph Mueller  
Christoph.Mueller@ziehl-abegg.de

Project  
-

ZIEHL-ABEGG Subsidiary  
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Type  
FN050-VDK.4I.V7P1

Article number  
156916



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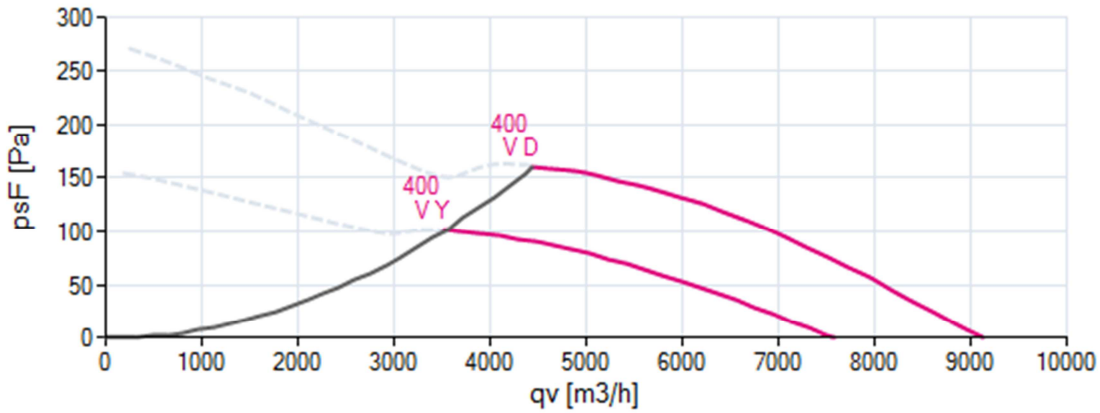
### 1. Product specification

#### Technical data

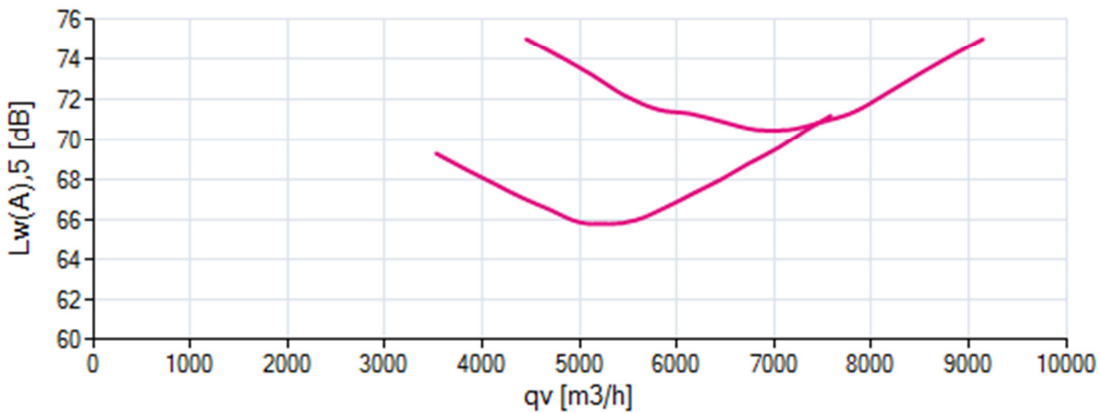
Article number	156916
Type	FN050-VDK.4I.V7P1
Designation	Axial fan with sickle blades
Rated values	3~400V±10% D/Y 50Hz P <sub>1</sub> 0,77/0,49kW 1,70/ 0,84A ΔI=0% 1300/1025/min COSY 0,64 70°C 3~400V±10% D/Y 60Hz P <sub>1</sub> 1,10/0,60kW 1,90/ 1,00A ΔI=0% 1400/ 980/min COSY 0,81 70°C 3~460V±10% D/Y 60Hz P <sub>1</sub> 1,20/0,70kW 2,00/ 1,05A ΔI=0% 1480/1100/min COSY 0,76 70°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	1360-108XA
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)
Guard grille type	ring grill
Painting mot.suspens	Motor suspension 1 coat paint
colour suspension	RAL 9005 (jet black)
Weight kg	13,30
ErP Data	Efficiency $\eta_{\text{statA}}$ : 33,4 % Efficiency: $N_{\text{actual}} = 40,7 / N_{\text{target}} = 40^*$ *ErP 2015

## 2. Characteristic Curve

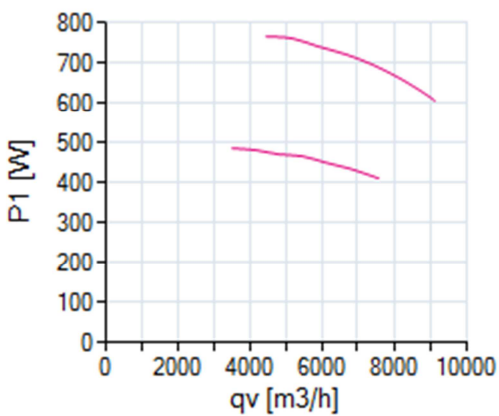
### Air performance



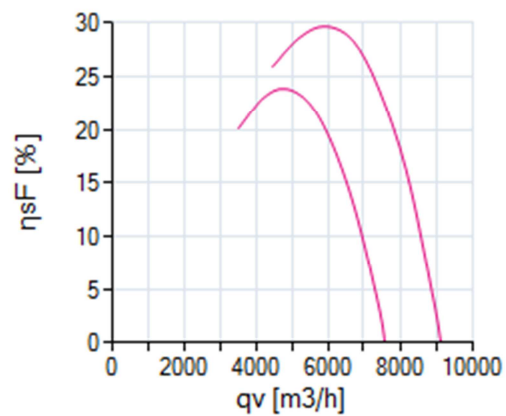
### Acoustics



### Power input



### Efficiency

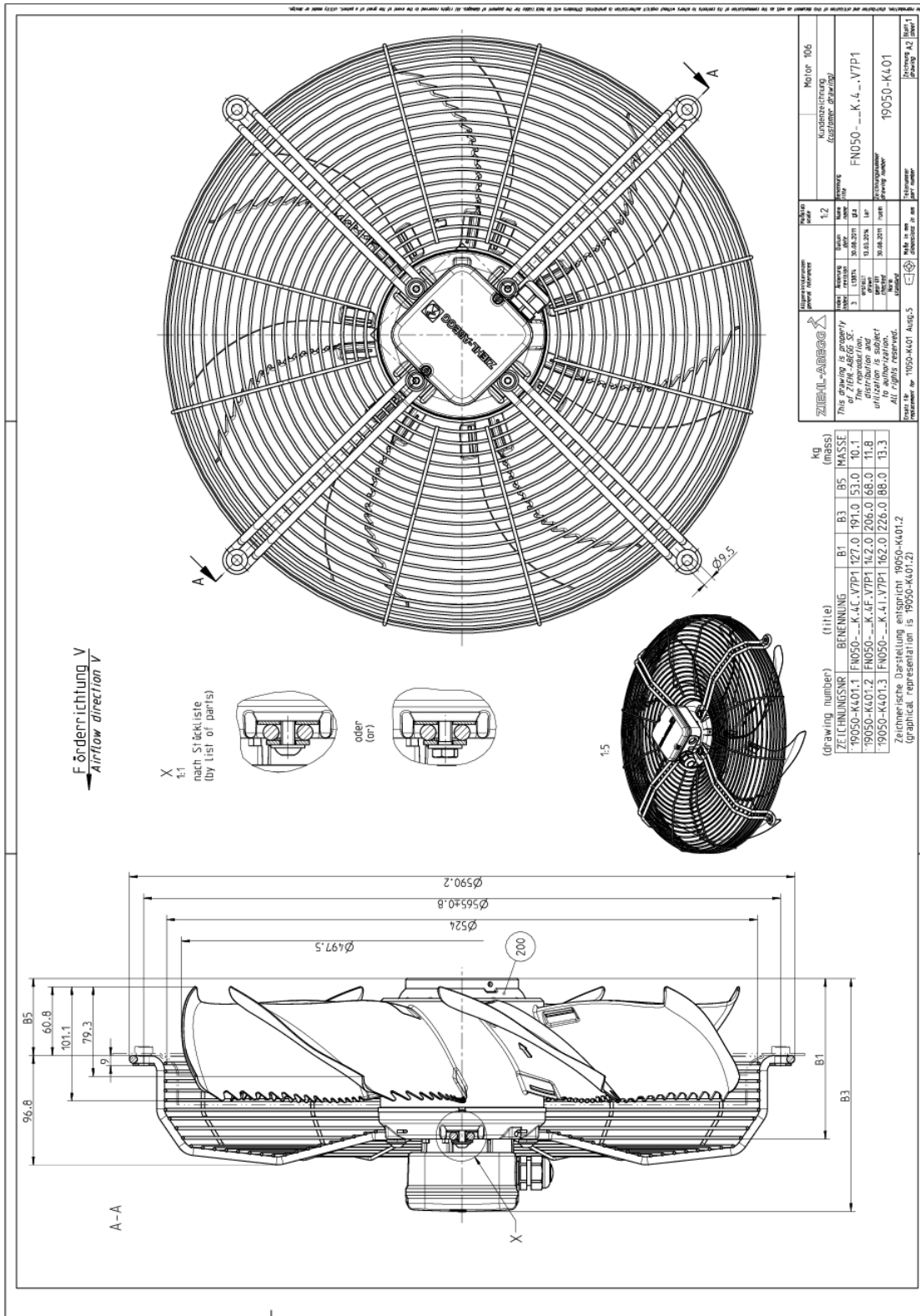


measured in full bell mouth without guard grille in installation type A according to ISO 5801

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

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

### 3. Drawing



ZIEHL-ABEGG		Metron 106	
Kundenspezifische Bestellnummer		Kundennummer	
1:2		1:2	
3	3	30.08.2011	30.08.2011
15.03.2014		15.03.2014	
19050-K401		19050-K401	
19050-K401		19050-K401	

ZEICHENUNGSNR.	(drawing number)	BENENNUNG	(title)
19050-K401.1	B1	B5	MASSSE
19050-K401.2	B1	B5	MASSSE
19050-K401.3	B1	B5	MASSSE
19050-K401.4	B1	B5	MASSSE
19050-K401.5	B1	B5	MASSSE

This drawing is property of ZIEHL-ABEGG SE. It is not to be distributed or used for other purposes without the express written consent of ZIEHL-ABEGG SE. All rights reserved.

Zeichnerische Darstellung entspricht 19050-K401.2  
(graphical representation is 19050-K401.2)

Dimensions in mm  
Shown drawing is just to show the dimensions of the fan.

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03.07.2017 11:06:10

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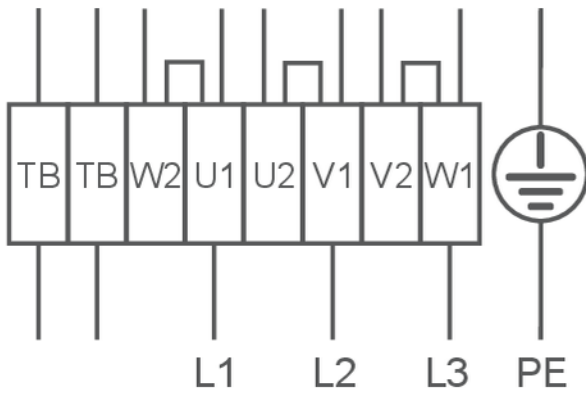
### 4. Connection diagram

#### 1360-108XA

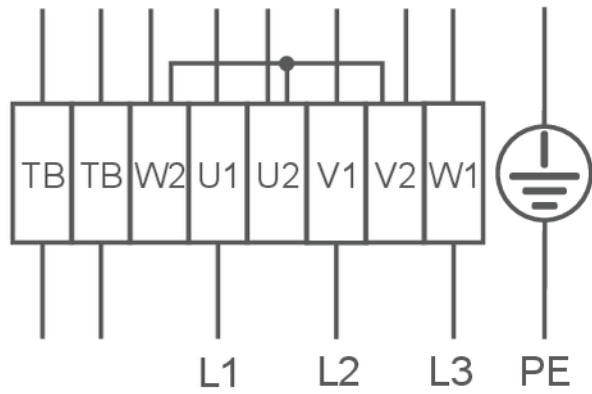
3~ motor, 2 speeds ( $\Delta/Y$  switch over) with thermostatic switch (if built in). Without bridge when using speed change-over switch.

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

High speed/D-connection



Low speed/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

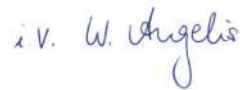
Compliance with the ErP Directive 2009/125/EC does not refer to external rotor motors MK.., MW..

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](#).