

Movement by Perfection





Product documentation

Type FN050-VDK.4I.V7P1

Article number 57240281



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The Royal League Die Königsklasse

Product documentation

Customer ZIEHL-ABEGG Contact
Actrol Kenz Zacharias

Project Axial Fan

ZIEHL-ABEGG Subsidiary

Type FN050-VDK.4I.V7P1

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1. Product specification

Technical data

57240281 Article number

FN050-VDK.4I.V7P1 **Type**

Axial fan with sickle blades Designation

3~400V±10% D/Y 50Hz P₁ 0.84/0.54kW Rated values

1.45/ 0.96A AI=15% 1340/ 940/min COSY 0,80 70°C

Electrical connection Terminal box K62

-40*** Min. operating temperature °C

Mounting type terminal box Mounted on Stator

Type of protection IP54 THCL155 Thermal class 1360-108XA **Connection diagram** 1x fixed Rating plate H/Vu/Vo **Fitting position**

thermal contact **Motor protection**

Moisture and hot climate protection Impregnation ball bearing with long-time lubrication **Quality of bearings**

Aluminium **Material Rotor**

Rotor 1 coat painted **Painting rotor** RAL 9005 (jet black) colour rotor

Aluminium **Material blades** 1 coat painted Painting impeller

RAL 9005 (jet black) Colour blades

ring grill Guard grille type

Control

Balancing quality G 4,0 Other

Motor suspension 1 coat paint Painting mot.suspens

RAL 9005 (jet black) colour suspension

13,30 Weight kg

Efficiency η_{statA}: 34,2 % **ErP Data**

Efficiency grade: N_{actual} = 41,3 / N_{target} = 40*

*ErP 2015

*** Occasional operation ≤ -20°C and in consideration of lowest temperature according to product documentation permissible. For cooling applications with continuous operation ≤ -20°C cold design on request.





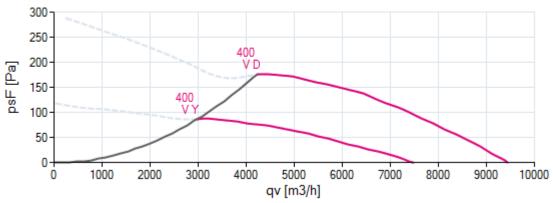
2. Characteristic Curve

. __. . . _ _ .

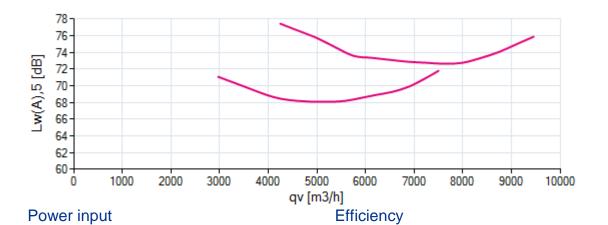
FN050-VDK.4I.V7P1 Gemessen in Volldüse ohne Berührschutzgitter in Einbauart A nach ISO 5801

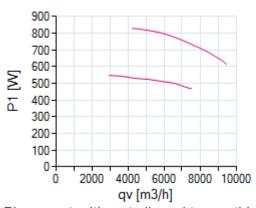
3~ 400V 50Hz D Messdichte 1,16

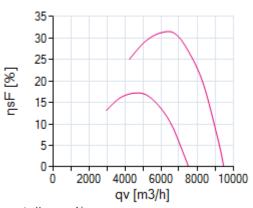
Air performance



Acoustics







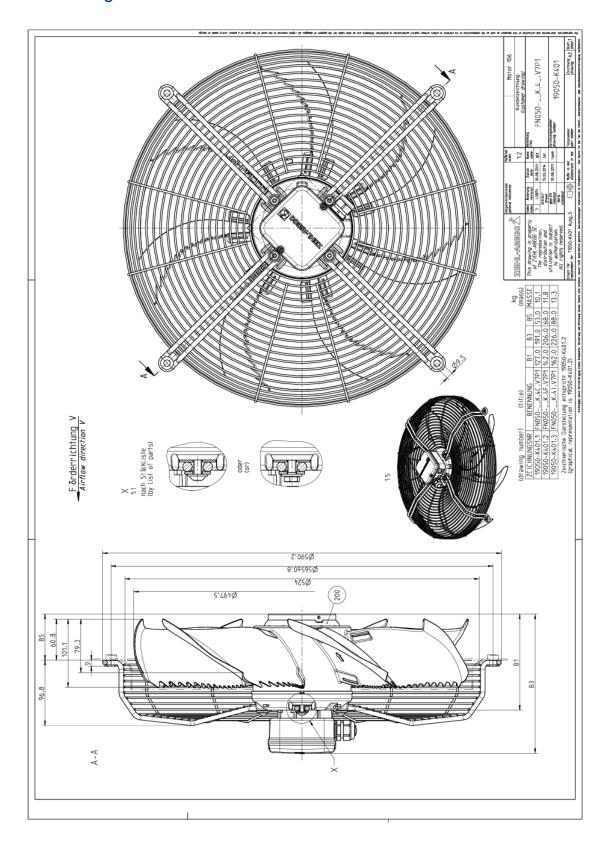
Please note: It's not allowed to use this fan in the stall area!*



^{*}In doubt please ask your responsible ZIEHL-ABEGG sales contact.

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3. Drawing



Dimensions in mm

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

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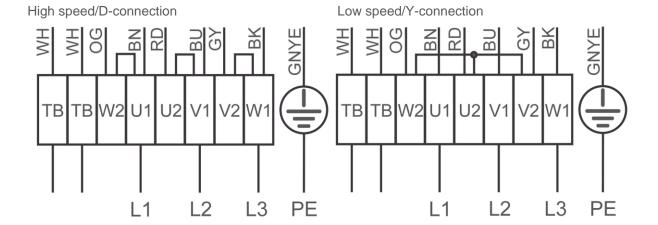
4. Connection diagram

1360-108XA

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

BN brown BU blue BK black RD red GY grey OG orange WH white

GNYE green-yellow





Release Date: 08.02.2013



5. EU-Declaration of conformity

EC-Declaration of conformity

- Translation -(enalish)

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)

iv. W. Angelis

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

(Signature)

ZIEHL-ABEGG



Release Date: 08.02.2013

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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.

