

Movement by Perfection





Product documentation

Type FC056-VDS.4I.V7

Article number 168661



The Royal League Die Königsklasse

Product documentation

Customer ZIEHL-ABEGG Contact

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Project

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1. Product specification - Technical data

Article number 168661

FC056-VDS.4I.V7 Type

Designation Axial fan with diecast blades

Rated values 3~400V ±10% D/Y 50Hz P₁ 1.15/0.74kW

2.2/1.3A AI=5% 1320/910/min COSY 0,78 50°C

test

Electrical connection Terminal box K02/N **ErP Data** Efficiency η_{statA}: 34.2 %

Efficiency grade: Nactual = 40.1 / Ntarget = 40*

*ErP 2015

Type of protection IP54 Thermal class THCL155

Mounting type terminal box Mounted on Stator

-40°C*** Min. operating temperature 1360-108XA **Connection diagram** 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 unpainted painting stator Stator unpainted

Material blades Aluminium

Painting impeller Impeller unpainted

Guard grille type ring grill

Other All connecting elements in stainless steel.

Painting mot.suspens Motor suspension powder-coated resistance class 2 (L-TI-0585)

colour suspension RAL 9005 (jet black)

Weight 12.60 kg



[&]quot;Operation mode:
Continuous operation with occasional starts (S1) according to DIN EN 60034-1:2011-02.
Occasional starting between -40 °C and -25 °C is permissible. Continuous operation below -25 °C only with special bearings for refrigeration applications on request.

Temissible minimum and maximum ambient temperature for operation:

Please refer to the technical documentation of the product for the minimum and maximum ambient temperature valid for the respective fan. Operation below -25 °C as well as partial load operation for refrigeration applications is only possible with special bearings for refrigeration applications are installed in the fan, please observe the permissible maximum temperatures in the technical documentation of the product.



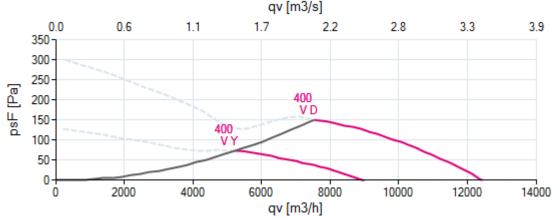
2. Characteristic Curve

FC056-VDS.4I.V7 Measured in full nozzle with pressure side guard grille in air flow direction V in

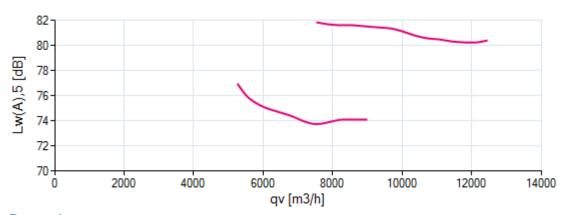
installation type A according to ISO5801

3~ 400V 50Hz D measurement density 1,16 kg/m³

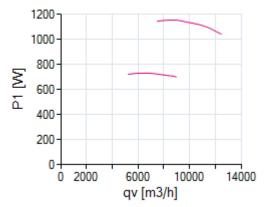
Air performance



Acoustics



Power input



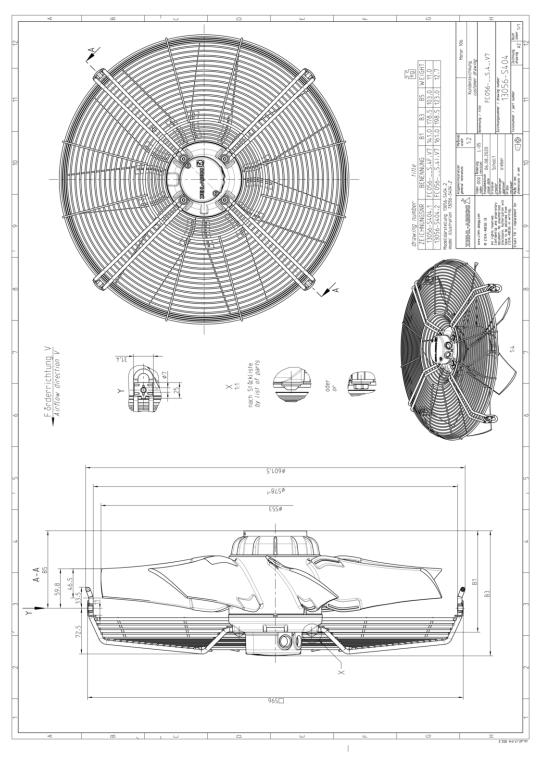
Please note: It's not allowed to use this fan in the stall area!*



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

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3. Drawing



Dimensions in mm

The illustrations shown make no claim to completeness and are for orientation purposes only.



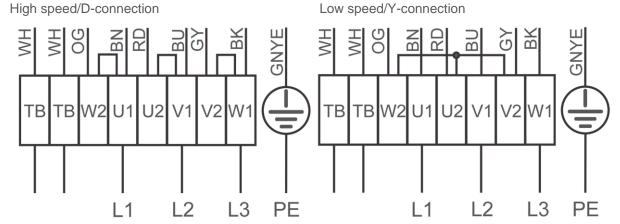
4. Connection diagram

wiring diagram: 1360-108XA

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

ΒN brown BU blue BK black RD red GY grey OG orange WH white GNYE green-yellow

Low speed/Y-connection





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..
- $\bullet \ \, \text{Axial fan DN.., FA.., FB.., FC.., FE.., FF.., FG.., FH.., FL.., FN.., FS.., FT.., FV.., VN.., VR.., ZC.., ZF.., ZG.., ZN..} \\$
- 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 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 (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

iv. W. Angelis

Technical Director Air Movement Division

(name, function)

(Signature)

ZIEHL-ABEGG SE Dr. D. Kappel Deputy Head of Elec

Deputy Head of Electrical Systems

i. V. luid happel

(name, function)

(Cianatura)

(Signature)





00296702-GB

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., FS., 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

ENISO 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.

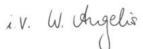
The specific technical documentation in accordance with Appendix VII B has been written and is available in its entirety.

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



ZAZA87-GB-1750 Index 007

english

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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.

