

### Movement by Perfection





Product documentation

Type FC050-VDQ.4F.V7

Article number 102719





## **Product documentation**

Customer

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Project
Axial Fans

ZIEHL-ABEGG Subsidiary

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## 1. Product specification - Technical data

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FC050-VDQ.4F.V7 Type

Designation Axial fan with diecast blades

Rated values 3~400V ±10% D/Y 50Hz P<sub>1</sub> 0.55/0.39kW

1.05/0.68A 1380/1040/min COSY 0,78

**Electrical connection** Terminal box K62

**ErP Data** Efficiency η<sub>statA</sub>: 37.6 %

Efficiency grade: Nactual = 45.6 / Ntarget = 40\*

\*ErP 2015

Type of protection **IP54** 

Thermal class THCL155

Mounting type terminal box Mounted on Stator

-40°C\*\*\* Min. operating temperature

Connection diagram 1360-108XA 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

ball bearing with long-time lubrication Quality of bearings

**Material Rotor** Aluminium

**Painting rotor** Rotor 1 coat paint resistance class 1 (L-TI-0596)

colour rotor RAL 7030 (stone grey)

Stator 1 coat paint resistance class 1 (L-TI-0596) painting stator

colour stator RAL 7030 (stone grey)

**Material blades** Aluminium

Painting impeller Impeller 1 coat paint resistance class 1 (L-TI-0596)

Colour blades RAL 7030 (stone grey)

Painting housing Bell mouth 1 coat paint resistance class 1 (L-TI-0596)

**Colour housing** RAL 7030 (stone grey)

Motor suspension 1 coat paint resistance class 1 (L-TI-0596) Painting mot.suspens

colour suspension RAL 7030 (stone grey)

Special mounted part Wall ring plate in special design.

Weight 15.00 kg

\*\*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.

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.

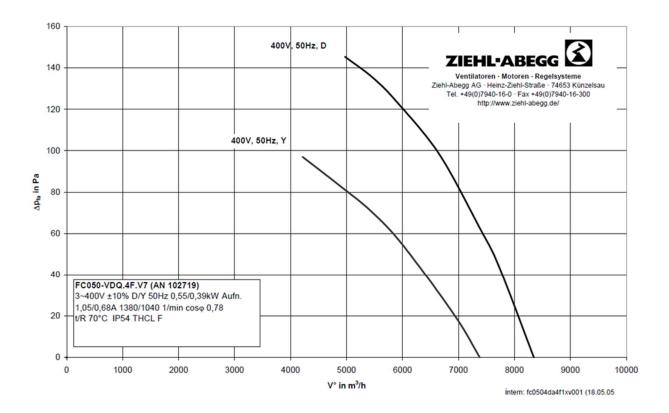


<sup>\*\*</sup> Operation mode:

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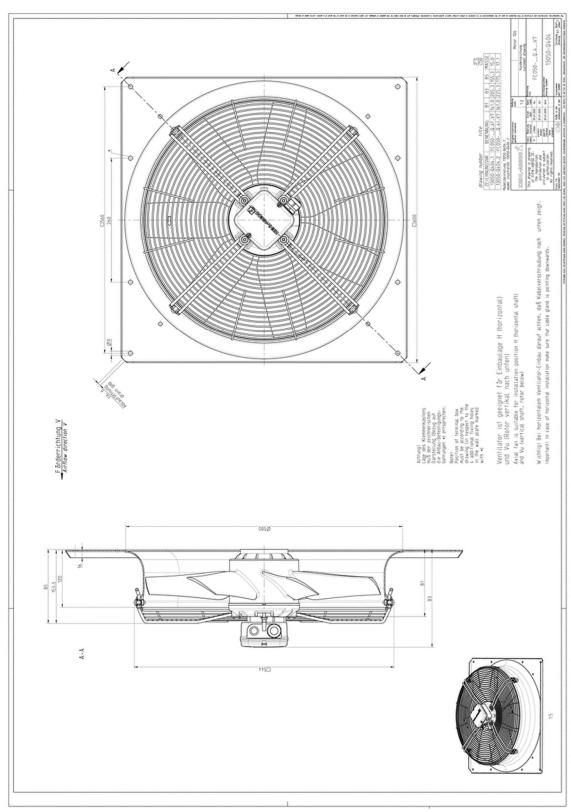
### 2. Characteristic curve





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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

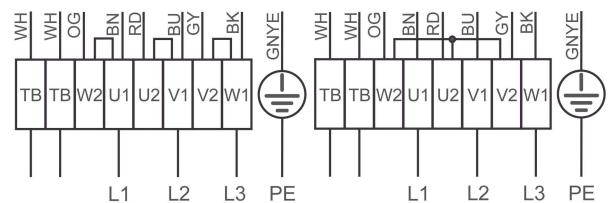
 $3\sim$  motor, 2 speeds ( $\Delta$ /Y switch over) with thermostatic switch (if built in). Without bridge when using speed change-overswitch.

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

GNYE green-yellow

#### High speed/D-connection

Low speed/Y-connection





## 5. EU-Declaration of conformity

#### EU declaration of conformity

- Translation -(enalish)

ZA75-GB 1910 Index 015

ZIEHL-ABEGG SE Manufacturer:

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 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

Technical Director Air Movement Division

(name, function)

(Signature)

ZIEHL-ABEGG SE Dr. D. Kappel

Deputy Head of Electrical Systems

i. V. louid happel

(name, function)

(Signature)





## 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.., 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

The maintenance of the EN ISO 13857:2008 relates only to the installed accidental Note:

contact protection, provided that it is part of the scope of delivery.

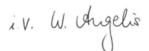
The specific technical documentation in accordance with Appendix VII B has been written and is available in its

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

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



english

ZIEHL-ABEGG

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## The Royal League Die Königsklasse



# 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.

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