

Movement by Perfection





Product documentation

Type ZN080-ZIL.GL.V7P3

Article number 184586



Article number 184586

The Royal League Die Königsklasse

Product documentation

Customer ZIEHL-ABEGG Contact

AIREFRIG AUSTRALIA Alex Moraes

Project
Axial Fan

ZIEHL-ABEGG Subsidiary

Australia

ZIEHL-ABEGG Australia Pty Ltd (VIC)

181 Calarco Drive

Derrimut

VICTORIA 3030

AUSTRALIA

Phone +61 3 99310899 Fax +61 3 99310499 www.ziehl-abegg.com.au

info@ziehl-abegg.com.au

Type ZN080-ZIL.GL.V7P3

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1. Product specification - Technical data

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Type ZN080-ZIL.GL.V7P3

Designation ZAplus axial fan with sickle blades

Rated values 3~380-480V 50/60Hz P₁2.80kW 4.40-3.50

1100 min-165°C

Electrical connection Terminal box K07

ErP Data Measurement category ErP: A

> Air flow q_v on Eta opt: 18424 m3/h Pressure increase pfs on Eta opt: 287 Pa Input power Ped on Eta opt: 2744 W

Efficiency n_{statA}: 58.0 %

Efficiency grade: Nactual = 61.6 / Ntarget = 40*

*ErP 2015

Type of protection IP55

Thermal class THCL155

Mounting type terminal box Mounted on fan housing

efficiency class IE5

Connection diagram 1360-422 KLK

Rating plate 2x fixed **Fitting position** H/Vu/Vo

Motor protection integrated active temperaturemanagement

Impregnation Moisture and hot climate protection

Condensation water hole(s) in rotor open Condensation Quality of bearings ball bearing with long-time lubrication

Material Rotor Aluminium

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

colour rotor RAL 5002 (ultramarine blue)

Material blades Aluminium

Labelling UL/CSA E213826 ZB-155, MK152-0015

Guard grille type ring grill

IO-function BASIC-MODBUS

Colour housing black

Painting safe. guard Safety guard powder-coated with safety guard

Guard grill pre.side Guard grill mounted on pressure side

Weight 45.80 kg



^{***} Operation mode:

Operation mode:
Continuous operation with occasional starts (S1) according to DIN EN 60034-1:2011-02.
Occasional starting between -35 °C and -25 °C is permissible. Continuous operation below -25 °C only with special bearings for refrigeration applications on request.

Permissible 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 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.

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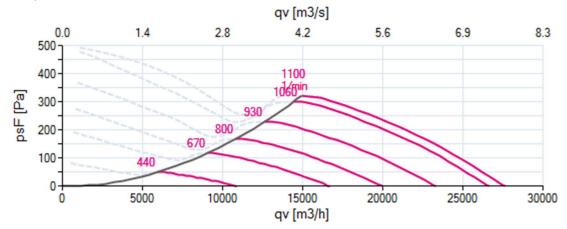
2. Characteristic Curve

ZN080-ZIL.GL.V7P3 Gemessen in ZAplus mit druckseitigem Berührschutz in Förderrichtung V in

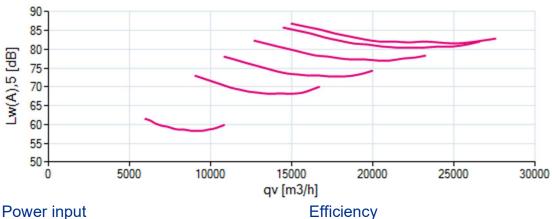
Einbauart A nach ISO5801

3~ 400V 50Hz Messdichte 1,16 kg/m³

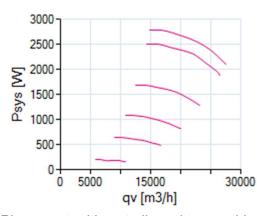
Air performance

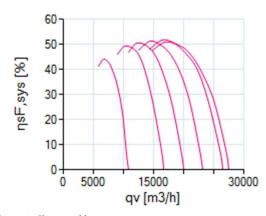


Acoustics



Power input





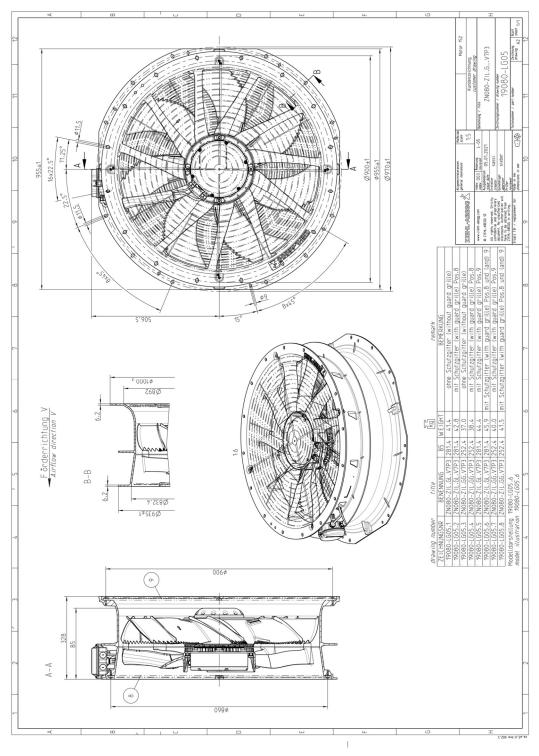
Please note: It's not allowed to use this fan in the stall area!*

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

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3. Drawing

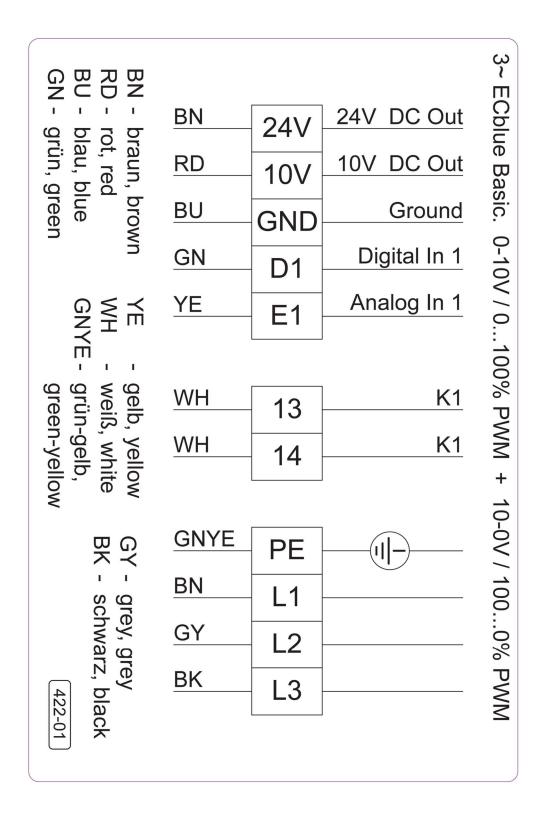


Dimensions in mm

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



4. Connection diagram





5. EU-Declaration of conformity

EU declaration of conformity

- Translation - (english)

ZA75-GB 2044 Index 016

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 DN.., FA.., FB.., FC.., FE.., FF.., FG.., FH.., FL.., FN.., FS.., FT.., FV.., VN.., VR.., ZC.., ZF.., ZG.., ZN..
- Centrifugal fan ER.., GR.., HR.., 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 + AC:2010
- EN 60204-1:2006 + A1:2009 + AC:2010
- EN 60529:1991 + A1:2000 + A2:2013 + AC:1993 + AC:2016 + AC:2019
- EN 61000-6-2:2005 + AC:2005
- EN 61000-6-3:2007 + A1:2011 + AC:2012

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, 28.10.2020 (location, date of issue)

ZIEHL-ABEGG SE Dr. W. Angelis Head of Technics Ventilation Technology

(name, function)

(signature)

ZIEHL-ABEGG SE Dr. D. Kappel Head of Electrical Systems

(name, function)

i. V. louid happel

(signature)

ZIEHL-ABEGG





EC Declaration of Incorporation

- Translation -(english)

as defined by the EC Machinery Directive 2006/42/EC, Annex II B

ZA87-GB 2044 Index 009

The design of the incomplete machine:

- 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.., HR.., RA.., RD.., RE.., RF.., RG.., RH.., RK.., RM.., RR.., RZ.., WR..
- · Cross-flow fan QD.., QG.., QK.., QR.., QT..,

Motor type:

- Asynchronous 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.

The manufacturer is

EN ISO 13857:2008

ZIEHL-ABEGG SE Heinz-Ziehl-Strasse D-74653 Künzelsau

The following harmonised standards have been used:

EN 60204-1:2006 + A1:2009 + AC:2010 Safety of machinery; electrical equipment of machines; Part 1:

General requirements

EN ISO 12100:2010 Safety of machinery - General principles for design - Risk

assessment and risk reduction 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

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, 28.10.2020 (location, date of issue)

i.V. W. Angelis

ZIEHL-ABEGG SE Dr. W. Angelis

Head of Technics Ventilation Technology

(name, function)

ZIEHL-ABEGG SE Dr. D. Kappel

Head of Electrical Systems

i. V. luid happel

(name, function)

(signature)

(signature)





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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.

