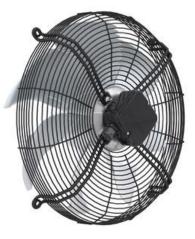


### Movement by Perfection



The Royal League in ventilation, control and drive technology



Product documentation

Type FN050-VDK.4I.V7P1

Article number 142502



# The Royal League Die Königsklasse

### Product documentation

Customer Actrol

Project Axial Fan ZIEHL-ABEGG Contact Kenz Zacharias Tel. +61288832854 kenz.zacharias@ziehl-abegg.com.au

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Type FN050-VDK.4I.V7P1

Article number 142502



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### 1. Product specification

### Technical data

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Article number	142502
Туре	FN050-VDK.4I.V7P1
Designation	Axial fan with sickle blades
Rated values	3~400V±10% D/Y 50Hz P₁ 0,84/0,54kW 1.45/ 0.96A ∆I=15% 1340/ 940/min COSY 0,80 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
Control	
Other	Balancing quality G 4,0
Painting mot.suspens	Motor suspension 1 coat paint
colour suspension	RAL 9005 (jet black)
Weight kg	13,30
ErP Data	Efficiency $\eta_{statA}$ : 34,2 % Efficiency grade: $N_{actual} = 41,3 / N_{target} = 40^*$ *ErP 2015

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



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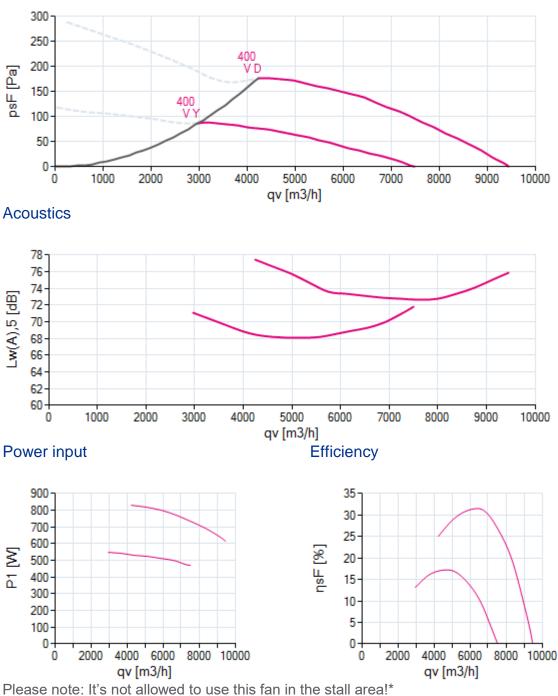
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## The Royal League Die Königsklasse

### 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



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

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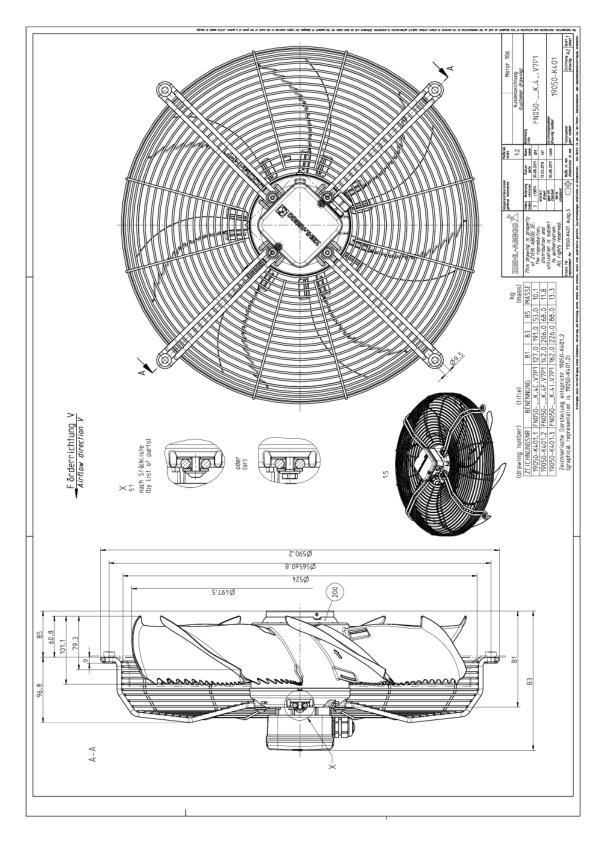
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### 3. Drawing



#### Dimensions in mm

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

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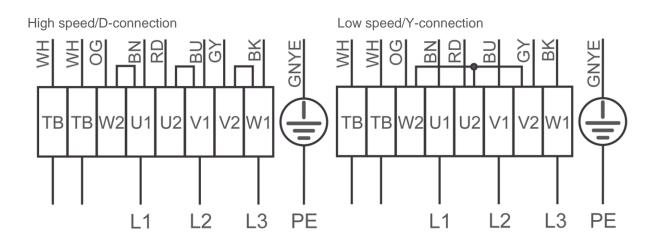
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### 4. Connection diagram

#### 1360-108XA

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

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



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## The Royal League Die Königsklasse

### 5. EU-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 60204-1:2006 + A1:2009 + AC:2010 EN 60529:1991 + A1:2000 + A2:2013 EN 61000-6-3:2007 + A1:2011 + AC:2012 EN 61000-6-2:2005 + AC:2005

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)

i.V. W. Augelis

(Signature)



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# 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.

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