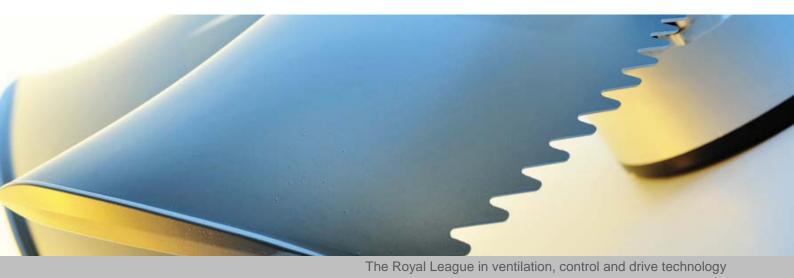


Movement by Perfection





Product documentation

Type FN050-VDA.4I.V7P1

Article number 180133



Article number 180133

The Royal League Die Königsklasse

Product documentation

Customer

Project Station One

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1. Product specification

Technical data

Article number 180133

FN050-VDA.4I.V7P1 Type

Designation Axial fan with sickle blades

Rated values 3~400V±10% D/Y 50Hz P₁ 0,84/0,54kW

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

Electrical connection Supply cable lateral-diagonal

9x 0,5 mm2, 155 cm

-40*** Min. operating temperature °C Cable quality Li4G4G-J IP54 Type of protection Thermal class THCL155 Connection diagram 1360-108XA Rating plate 1x fixed H/Vu **Fitting position**

Motor protection thermal contact

Quality of bearings ball bearing with long-time lubrication

Material Rotor Aluminium **Painting rotor** 3 coat painted

colour rotor RAL 9005 (jet black)

Material blades Aluminium Painting impeller 3 coat painted

Colour blades RAL 9005 (jet black)

Special bearing Ballbearing in special design

Field of application Conceived for individual application in

railways. Bahnbetrieb

Control Weight kg 11,20

ErP Data Efficiency η_{statA}: 34,2 %

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

*ErP 2015

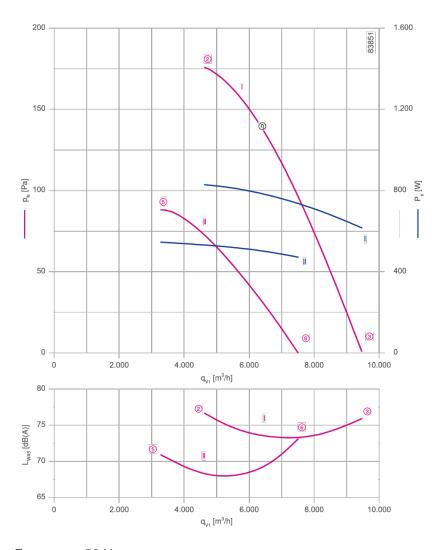


Release Date: 08.02.2013

^{***} 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.

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2. Characteristic curve



Frequency: 50 Hz

Measured in full nozzle without guard grille in installation type A according to ISO 5801.

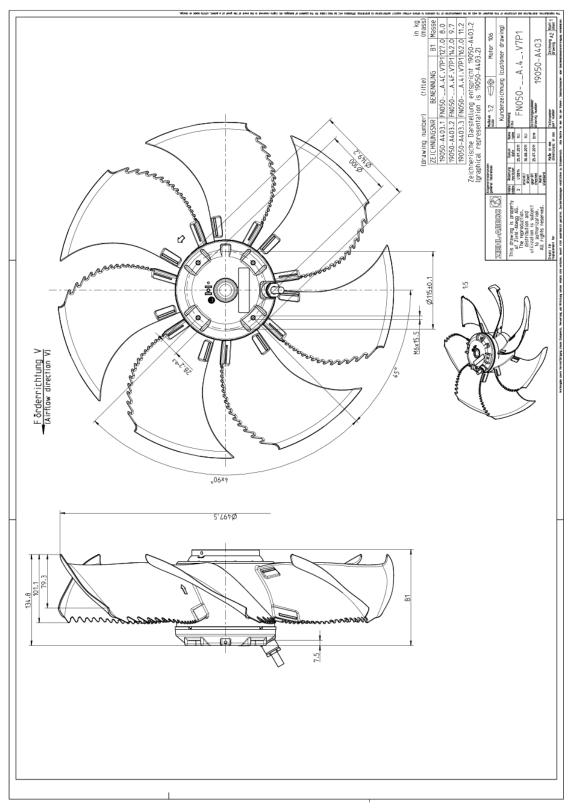
I = 400 V D, II = 400 V Y

Operating point		1	2	3	4	(5)	6
Characteristic		1	1	1	II	II	II
curve							
Connection		Δ	Δ	Δ	Υ	Υ	Υ
Voltage	V	400	400	400	400	400	400
Input power	W	1050	840	620	580	540	480
Current	А	1,75	1,45	1,15	1,05	0,96	0,82
Speed	min ⁻¹	1280	1340	1390	800	940	1110



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3. Drawing



Dimensions in mm

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

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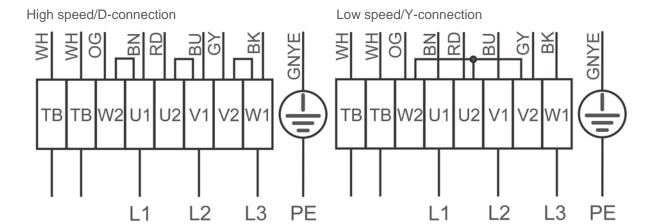
4. Connection diagram

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





TPL PG Datenblatt-V6-10

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5. General product and handling description

Operating conditions:

The product is designed for conveying non-aggressive, non-explosive, non-fluid, non-adherent, nonabrasive, dust and article-free gaseous media, air-like mixtures und air.

For AC standard fans: The product only works properly with a suitable frequency converter with integrated all-pole active sine filter. The product can be damaged if it's used without an all-pole sine filter between the motor and the frequency converter. Voltage peaks and voltage fluctuations can destroy the product. To provide error-free operation and prevent damage to the product, the product may only be operated in the

admissible operating area according to the above mentioned data sheets and air performance curves. The formation of small rusty spots during usage in accordance with the product specification and this general product and handling description can occur and does not affect the functionality of the product.

The product must never be used in obviously damaged condition.

Continuous intentional change of direction of rotation is not allowed.

Reverse current braking is not allowed.

Assembly:

The assembly has to meet the requirements of the assembly instructions to enable error-free operation.

Commissioning:

Commissioning should be done by appropriately qualified technical personnel according to the specifications in the operating and assembly instructions.

Documentation:

In case of defective parts or products or in case of any warranty, it may be necessary to analyse the root cause of the defect.

Therefore, ZIEHL-ABEGG may ask for documentation of proper life-cycle handling according to the instructions and the general product and handling description. ZIEHL-ABEGG may ask for appropriate documentation records in order to assess root cause of the defect.

Maintenance and inspection:

Any maintenance and inspection should be carried out in accordance with the operating and assembly instructions.

Packaging, storage and transport:

Packaging, storage and transport should be carried out in accordance with the operating and assembly instructions to avoid product damage.

Condensate formation inside the packaging can lead to formation of rust.

Long-term storage of the product should take place in dry environment. Shocks during storage can lead to product damage. Bearing streams should be avoided.

Spare parts:

In all warranty cases repairs has to be carried out by ZIEHL-ABEGG. In all other cases spare parts shall meet the specifications of the original installed parts to ensure error-free operation. Use of original ZIEHL-ABEGG spare parts is recommended.

Specific application/Intended purpose:

Suitability of the product for the specific application is beyond control of ZIEHL-ABEGG. Therefore, customer is necessarily obliged to test and approve the product in the application. ZIEHL-ABEGG will not warrant or quarantee any suitability of the product for customer's specific application or intended purpose.



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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.

