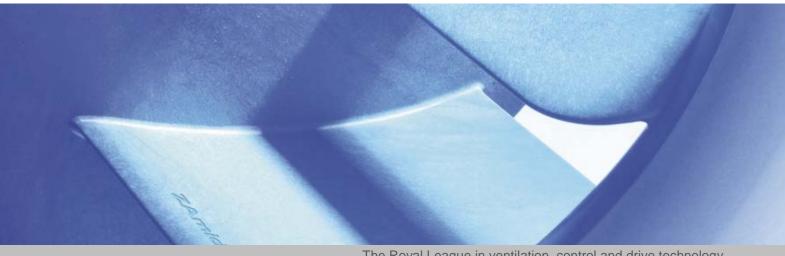
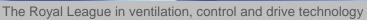


Movement by Perfection







Product documentation

Type RH25C-6IK.BA.CR

Article number 174659



The Royal League Die Königsklasse

Product documentation

Customer

Project Station One

> **ZIEHL-ABEGG Subsidiary** Headquarters ZIEHL-ABEGG SE Heinz-Ziehl-Straße 74653 Künzelsau Tel. 07940 16-0 Fax 07940 16-300 info@ziehl-abegg.de www.ziehl-abegg.de

Type RH25C-6IK.BA.CR

Article number 174659



Contents

| 1. | Product specification | 3 |
|----|-----------------------|---|
| 2. | Characteristic curve | 4 |
| 3. | Drawing | 5 |
| 4. | Connection diagram | 6 |



Release Date: 08.02.2013

The Royal League Die Königsklasse

1. Product specification

Technical data

Article number 174659

RH25C-6IK.BA.CR Type

Designation Single inlet impeller with backward curved blades.

Rated values DC110V Hz P₁ 0,50kW 4,40A

3030min⁻¹ 55°C

Electrical connection Integrated controller

-35*** Min. operating temperature °C

Control ECblue basic (inclusive MODBUS)

Painting stator Stator unpainted

coating rotor Rotor with 2 coatpaint

Colour sheet rotor 1K RAL 5002 (ultramarine blue)

Material impeller Impeller made of ZAmid

Painting impeller unpainted Colour impeller black **Connection diagram** 1360-384 Installation position H/Vu/Vo

Motor protection integrated active

temperaturemanagement

Type of protection IP54

Thermal class Thermal class 155

Moisture and hot climate protection **Impregnation**

Balancing

Quality of bearings ball bearing with long-time lubrication

Special bearing Ballbearing in special design

Field of application Conceived for individual application in

railways. Bahnbetrieb.

Labelling UL/CSA ZZZ XX

Other Connecting elements made of stainless

steel.

Other Impeller parts secured with Loctite.

Weight kg 4.80

ErP Data Efficiency η_{statA}: 62,5 %

Efficiency grade: N_{actual} = 76,3 / N_{target} = 62*

Release Date: 08.02.2013

*ErP 2015

*** 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.

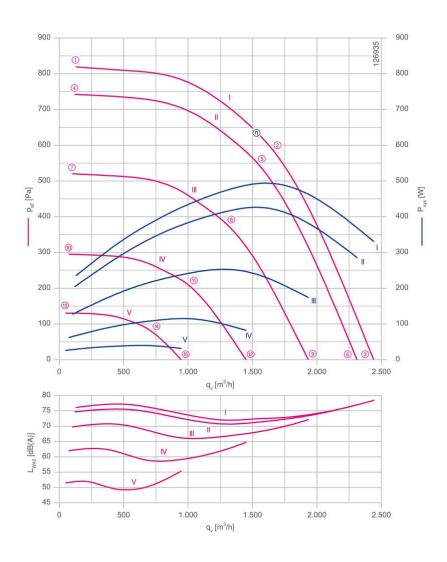


3 | 8



2. Characteristic curve

Measured with full nozzle without inlet guard grille



I = 3030/min, II = 2890/min, III = 2420/min, IV = 1820/min, V = 1210/min

| Operating | | 1 | 2 | 3 | 4 | (5) | 6 | 7 | 8 | 9 | 10 | 11) | 12 | (3) | 14) | 15) |
|----------------|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| point | | | | | | | | | | | | | | | | |
| Characteristic | | 1 | I | 1 | II | П | П | Ш | Ш | Ш | IV | IV | IV | V | V | V |
| curve | | | | | | | | | | | | | | | | |
| Connection | | Υ | Υ | Υ | Υ | Υ | Υ | Υ | Υ | Υ | Υ | Υ | Υ | Υ | Υ | Υ |
| | | | | | | | | | | | | | | | | |
| Voltage | V | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 |
| Current | Α | 2,10 | 4,40 | 3,00 | 1,85 | 3,90 | 2,60 | 1,15 | 2,30 | 1,60 | 0,56 | 1,05 | 0,74 | 0,24 | 0,36 | 0,29 |
| Speed | min ⁻¹ | 3030 | 3030 | 3030 | 2890 | 2890 | 2890 | 2420 | 2420 | 2420 | 1820 | 1820 | 1820 | 1210 | 1210 | 1210 |
| Suction side | dB(A) | 76 | 73 | 78 | 75 | 71 | 77 | 70 | 67 | 72 | 62 | 59 | 65 | 52 | 50 | 55 |
| sound | | | | | | | | | | | | | | | | |
| nower | | | | | | | | | | | | | | | | |

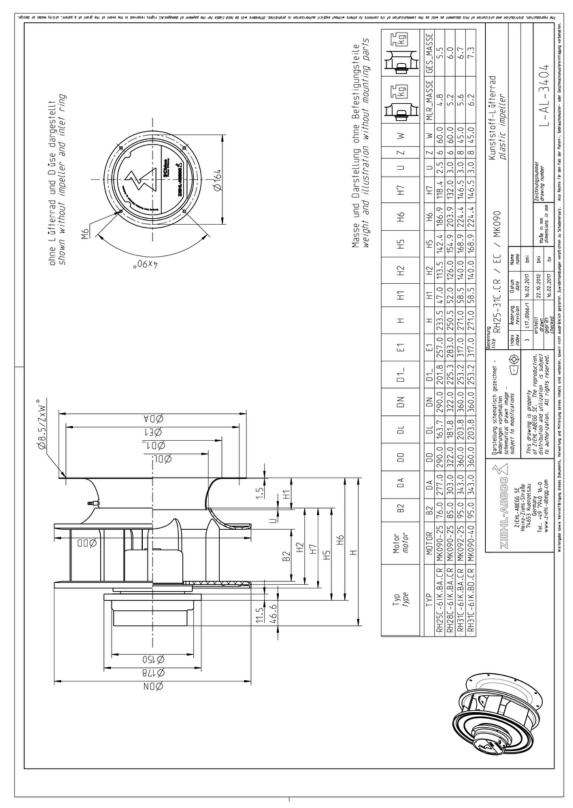
www.ziehl-abegg.com 03.12.2018 08:27:32

Movement by Perfection | Bewegung durch Perfektion

level

The Royal League Die Königsklasse

3. Drawing



Dimensions in mm

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

www.ziehl-abegg.com 03.12.2018 08:27:32

Movement by Perfection | Bewegung durch Perfektion



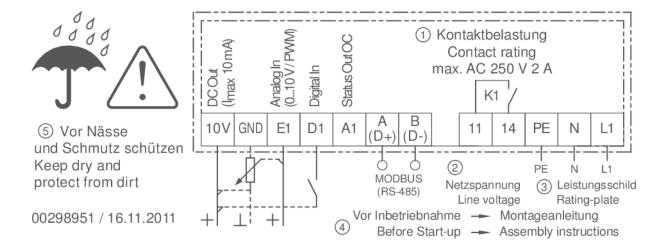
Technical changes reserved

© ZIEHL-ABEGG SE



4. Connection diagram

1360-384



Technical changes reserved

TPL PG Datenblatt-V6-10

Article number 174659



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.



© ZIEHL-ABEGG SE

Article number 174659

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.

