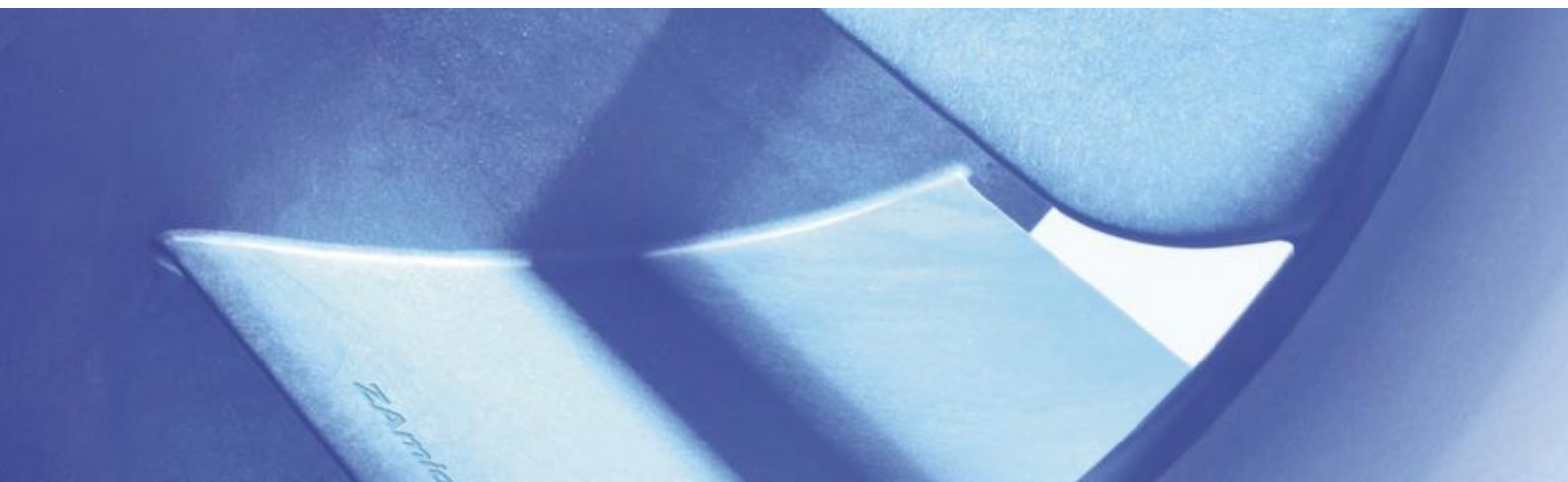
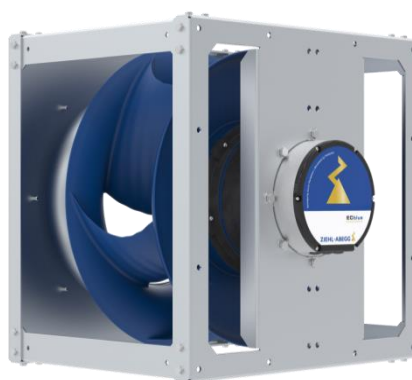


Movement by Perfection



The Royal League in **ventilation**, control and drive technology



Product documentation

Type  
GR56I-ZID.GL.CR

Article number  
116936/A01

Beijing Hengrui Mechanical and Electrical Equipment Co., Ltd  
+86 10-62547612  
zhangyu@bjhengrui.cn  
en.bjhengrui.com

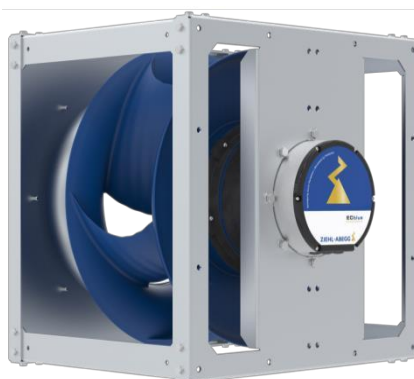
## Product documentation

Customer

Project

Type  
GR56I-ZID.GL.CR

Article number  
116936/A01



### Contents

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## 1. Product specification - Technical data

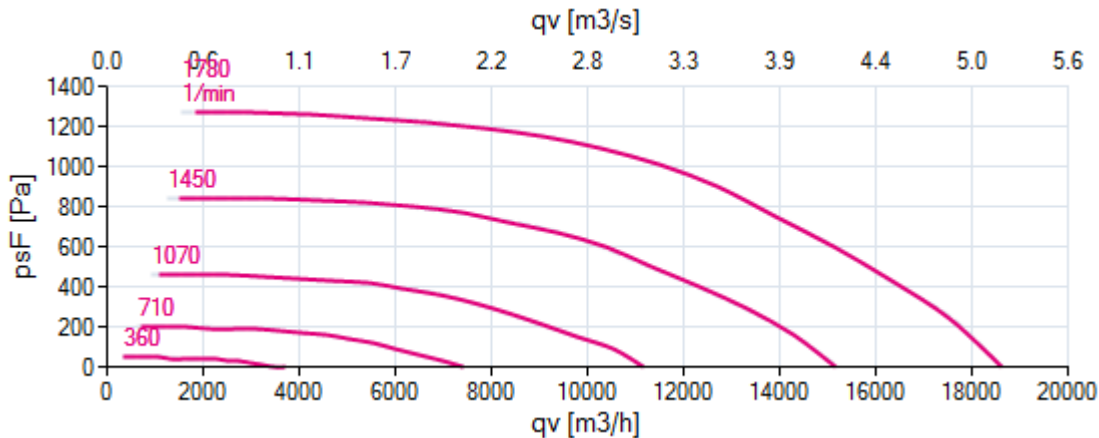
|                            |                                                                                                                              |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Article number             | 116936/A01                                                                                                                   |
| Type                       | GR56I-ZID.GL.CR                                                                                                              |
| Designation                | Ventilation unit with impeller with backward curved blades.                                                                  |
| Rated values               | 3~380-480V 50/60Hz P <sub>1</sub> 4.60kW 7.40-5.80A<br>1780min <sup>-1</sup> 40°C                                            |
| Electrical connection      | Integrated controller                                                                                                        |
| ErP Data                   | Efficiency $\eta_{statA}$ : 75.7 %<br>Efficiency grade: N <sub>actual</sub> = 79.3 / N <sub>target</sub> = 62*<br>*tErP 2015 |
| Min. operating temperature | -20°C                                                                                                                        |
| Thermal class              | Thermal class 155                                                                                                            |
| efficiency class           | IE5                                                                                                                          |
| IO-function                | BASIC-MODBUS                                                                                                                 |
| Painting stator            | Stator unpainted                                                                                                             |
| coating rotor              | Rotor with 1 coatpaint                                                                                                       |
| Colour sheet rotor         | RAL 5002 (ultramarine blue)                                                                                                  |
| Material impeller          | Impeller made of ZAMid                                                                                                       |
| Painting impeller          | unpainted unpainted                                                                                                          |
| Colour impeller            | like RAL 5002 (ultramarine blue)                                                                                             |
| Connection diagram         | AP00001C                                                                                                                     |
| Installation position      | Fitting position H/Vu/Vo                                                                                                     |
| Motor protection           | integrated active temperaturemanagement                                                                                      |
| Type of protection         | IP55                                                                                                                         |
| Impregnation               | Moisture and hot climate protection                                                                                          |
| Inlet cone                 | Inlet nozzle with measuring device for volume flow measureme                                                                 |
| Paint. inlet nozzle        | unpainted                                                                                                                    |
| Quality of bearings        | ball bearing with long-time lubrication                                                                                      |
| Support plate suction      | Fan dimension suction side 670x670mm                                                                                         |
| Support plate motor        | 670x670                                                                                                                      |
| Labelling UL/CSA           | E213826 ZB-155                                                                                                               |
| Painting motor             | Stator/rotor separately                                                                                                      |
| Colour motor               | Stator/rotor separately                                                                                                      |
| Balance quality            | G 2,5                                                                                                                        |
| Weight                     | 63.00                                                                                                                        |

## 2. Characteristic Curve

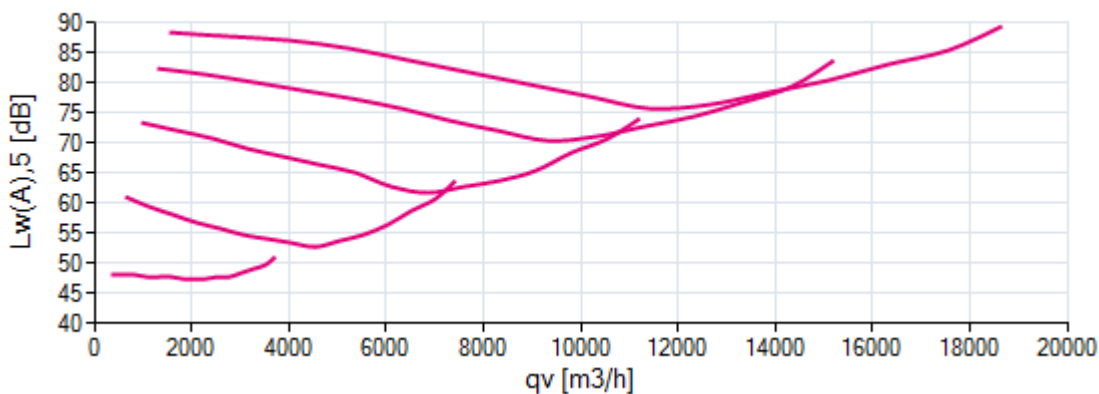
GR56I-ZID.GL.CR  
3~ 400V 50Hz

measured in standard nozzle in installation type A according to ISO 5801  
measurement density 1,16 kg/m<sup>3</sup>

### Air performance

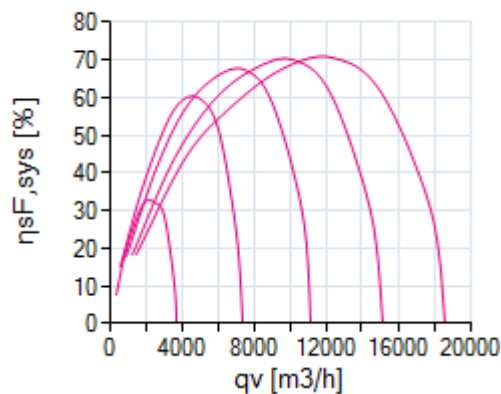
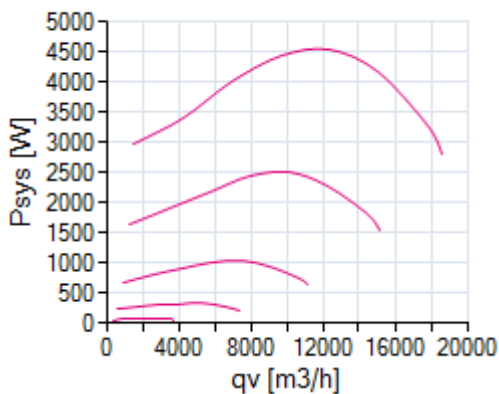


### Acoustics



### Power input

### Efficiency



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

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

**Masse und Darstellung ohne Befestigungsteile**  
*weight and illustration without mounting parts*

Bei Einbautage H müssen die Streben der Motoraufhängung / das Motortragblech vertikal ausgerichtet sein (wie dargestellt).  
*For mounting position H, the braces of the motor suspension / support plate must be vertically orientated (as illustrated).*

| Typ<br>type     | Motor<br>motor | H     | H1    | T3  | [kg]   |
|-----------------|----------------|-------|-------|-----|--------|
| TYP             | MOTOR          | H     | H1    | T3  | WEIGHT |
| GR561-ZID-GG.CR | MK152-56       | 544.0 | 478.0 | 348 | 56     |
| GR561-ZID-GL.CR | MK152-85       | 573.0 | 507.0 | 377 | 63     |
| GR561-ZID-GQ.CR | MK152-120      | 608.0 | 542.0 | 412 | 70     |

**ZIEHL-ABEGG**  
www.ziehl-abegg.com  
ZIEHL-ABEGG AG, Postfach 1015, D-73449 Ulm, Germany  
No unauthorized disclosure. Authorization will have to be obtained from ZIEHL-ABEGG in writing.  
Abbildungen schematisch gezeichnet. Maße in mm. Konstruktionsunterlagen sind Eigentum von ZIEHL-ABEGG AG.

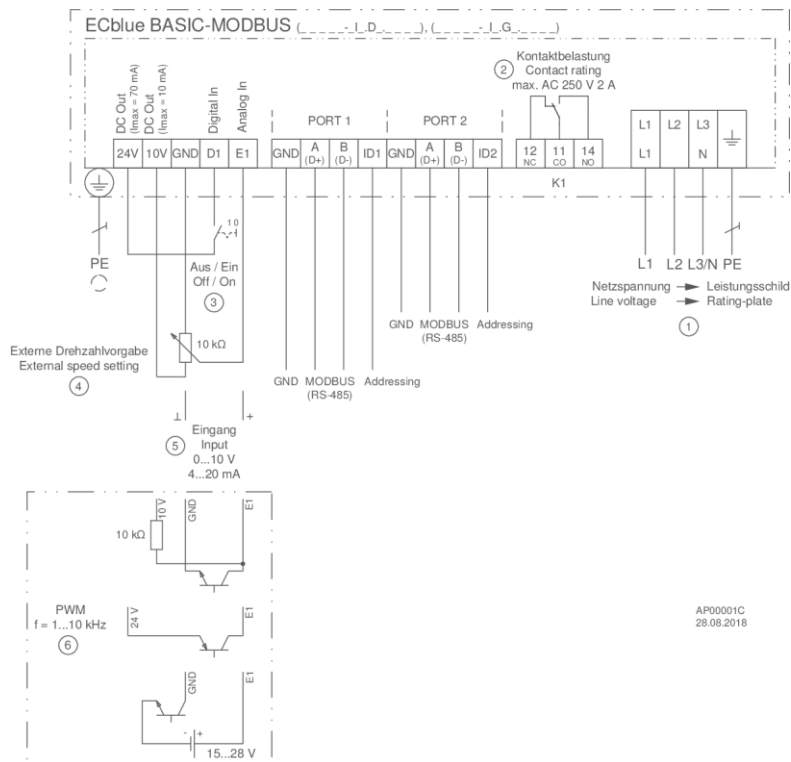
**Kunststoff-Lüfterrad / H/Vo/Vu**  
*plastic impeller / H/Vo/Vu*

Index 002 Motorring L-05  
Date of issue 19.02.2019  
Erstellt durch TUM  
Geprüft durch gteile

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

### 4. Connection diagram

AP00001C



## 5. EU-Declaration of conformity

### EU declaration of conformity

- Translation -  
(english)

ZA75-GB 1910 Index 015

**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..., 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  
(name, function)



(Signature)

ZIEHL-ABEGG 

### 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..., FG..., FS..., FT..., FH..., FL..., 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                                                                      |
| EN ISO 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                                                           |
| 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 entirety.

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, 12.12.2017

Dr. W. Angelis - Technical Director Ventilation Division

*Dr. W. Angelis*

ZAZA87-GB-1750 Index 007

1

english

ZIEHL-ABEGG 

00296702-GB



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](#).