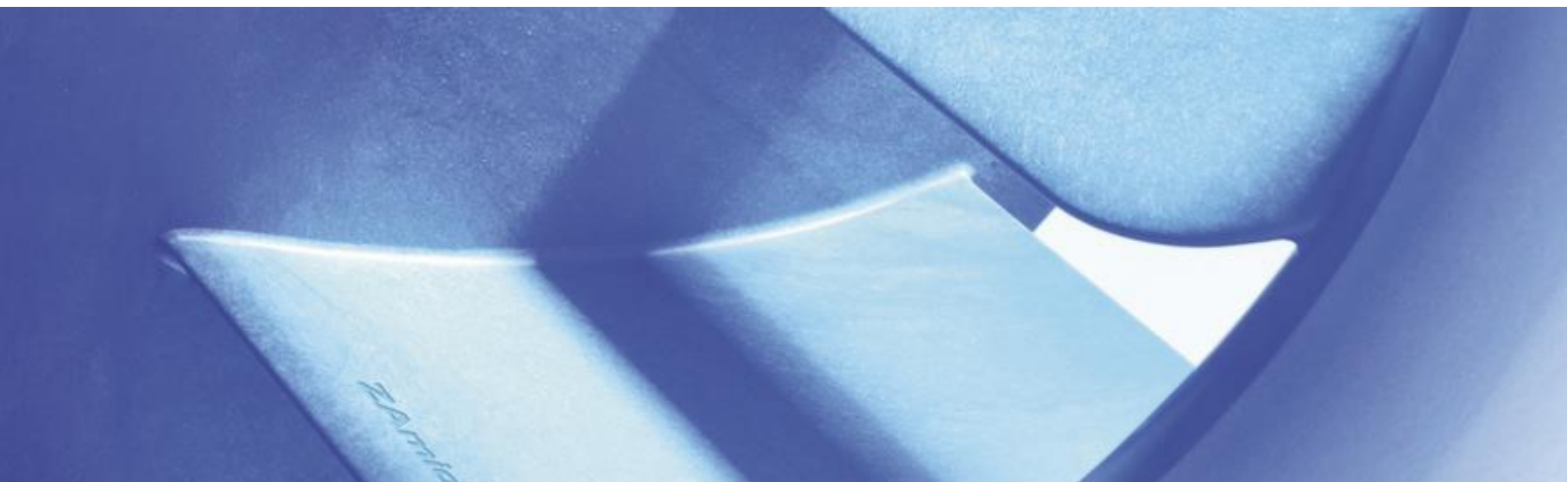


Movement by Perfection



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



[Product documentation](#)

Type  
**GR40I-ZID.DC.CR**

Article number  
**116895/A01**

## Product documentation

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Type  
GR40I-ZID.DC.CR

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116895/A01



### Contents

1.	Recitals	3
2.	Product specification - Technical data	4
3.	Characteristic Curve	5
4.	Drawing	6
5.	Connection diagram	7
6.	EU-Declaration of conformity	8

### 1. Recitals

The Product Specifications contained in this document are final, unless otherwise stated by a separate provision in the "ZIEHL-ABEGG deviation list document" with respect to information provided by the customer (cp. separate Chapter: Attachment).

Other regulations between the parties, regardless of time, form or content, are not part of the subject matter of the contract and the agreement on characteristics/of features (Product Specifications) between the parties.

Compliance with the following specifications is mandatory to ensure the functionality and safety of the product. If the following specifications given especially but not limited for operating conditions, transport, storage, mounting, start-up, maintenance and repair are not observed, the product may not operate safely and may cause a hazard to the life and limb of users and third parties.

Deviations from the following requirements may therefore lead both to the loss of the statutory material defect liability rights and to the liability of the buyer for the product that has become unsafe due to the deviation from the specifications.

## 2. Product specification - Technical data

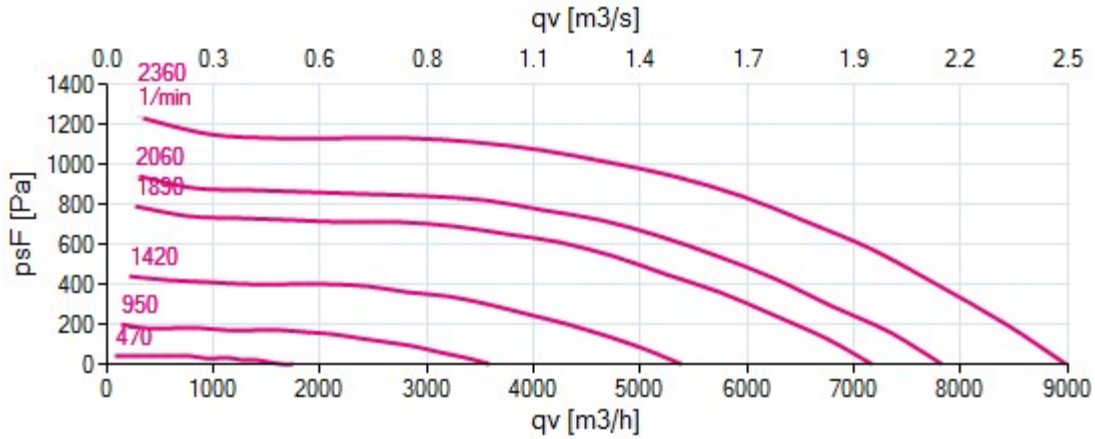
<b>Article number</b>	116895/A01
<b>Type</b>	GR40I-ZID.DC.CR
<b>Designation</b>	Ventilation unit with impeller with backward curved blades.
<b>Rated values</b>	3~380-480V 50/60Hz P <sub>1</sub> 2.10kW 3.40-2.70A 2360min <sup>-1</sup> 40°C
<b>Electrical connection</b>	Integrated controller
<b>ErP Data</b>	Measurement category ErP: A Air flow q <sub>v</sub> on Eta opt: 5740 m <sup>3</sup> /h Pressure increase p <sub>fs</sub> on Eta opt: 892 Pa Input power P <sub>1</sub> on Eta opt: 2079 W Efficiency η <sub>statA</sub> : 74.7 % Efficiency grade: N <sub>actual</sub> = 81.9 / N <sub>target</sub> = 62* *ErP 2015
<b>Min. operating temperature</b>	-20°C
<b>Thermal class</b>	Thermal class 155
<b>efficiency class</b>	IE5
<b>IO-function</b>	BASIC-MODBUS
<b>coating rotor</b>	Rotor 1 coatpaint resistance class 1 (L-TI-0596)
<b>Colour sheet rotor</b>	RAL 5002 (ultramarine blue)
<b>Material impeller</b>	Impeller made of ZAmid
<b>Colour impeller</b>	like RAL 5002 (ultramarine blue)
<b>Connection diagram</b>	AP00001C
<b>Installation position</b>	Fitting position H/Vu/Vo
<b>Fitting position mot</b>	Mounting position H/Vu/Vo
<b>Motor protection</b>	integrated active temperaturemanagement
<b>Type of protection</b>	IP55
<b>Impregnation</b>	Moisture and hot climate protection
<b>Inlet cone</b>	Inlet nozzle with measuring device for volume flow
<b>Quality of bearings</b>	ball bearing with long-time lubrication
<b>Labelling UL/CSA</b>	E213826 ZB-155, MK116-0009
<b>Colour motor</b>	Stator/rotor separately
<b>Balance quality</b>	G 4,0
<b>Weight</b>	25.00 kg

### 3. Characteristic Curve

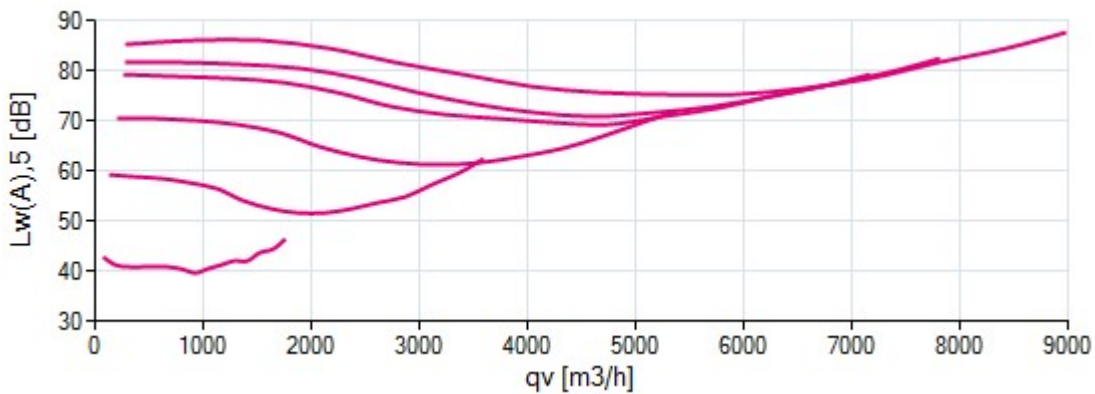
GR40I-ZID.DC.CR  
3~ 400V 50Hz

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

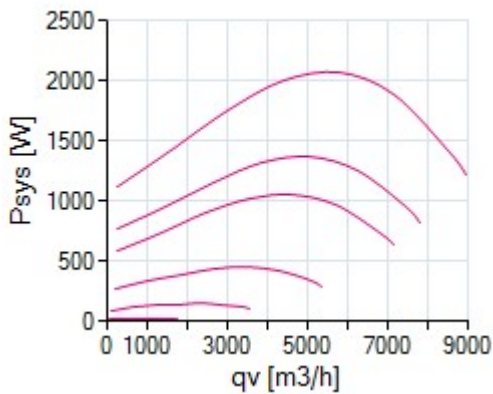
#### Air performance



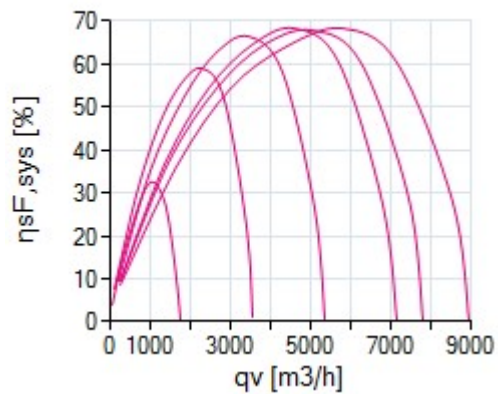
#### Acoustics



#### Power input



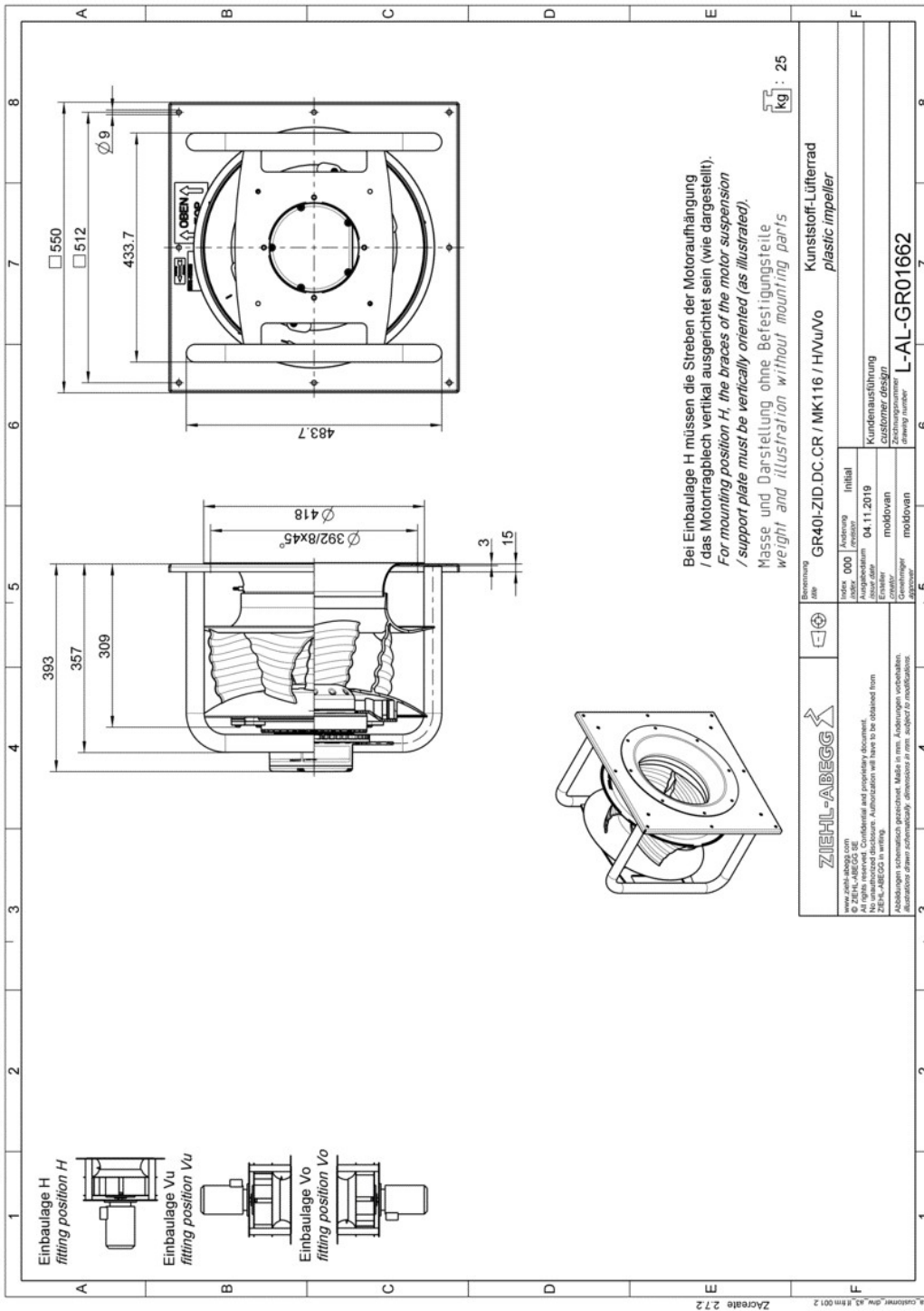
#### Efficiency



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

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

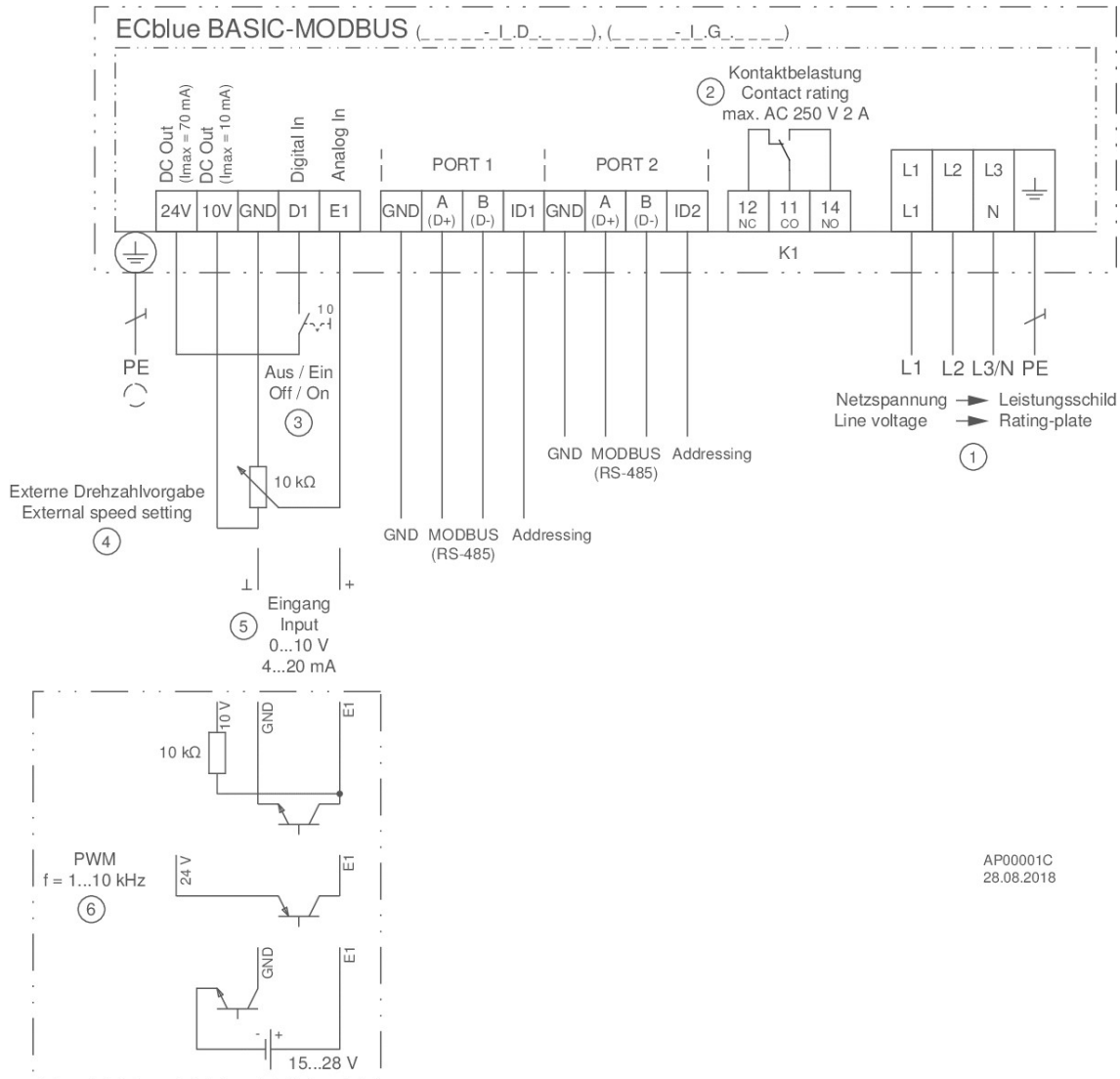
### 4. Drawing



Dimensions in mm

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

### 5. Connection diagram



## 6. 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)



(signature)





### EC Declaration of Incorporation

- Translation -  
(english)

ZA87-GB 2044 Index 009

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

#### 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

**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
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, 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)



(signature)





The Royal League in ventilation, control and drive technology

## Intelligent control technology for any application

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