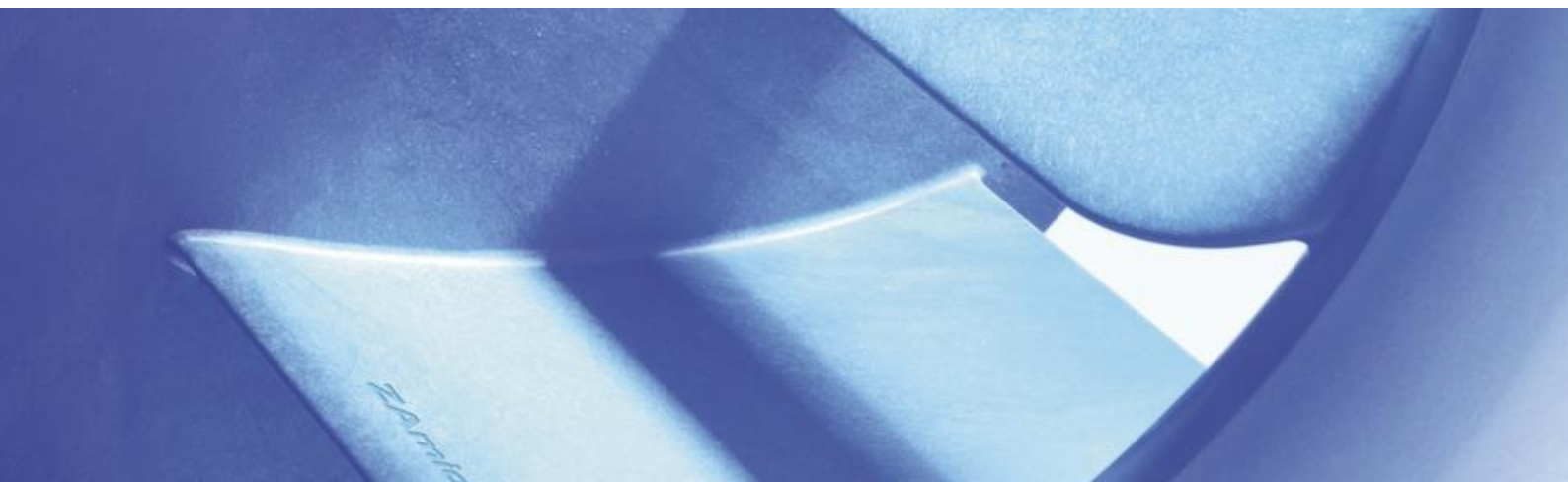
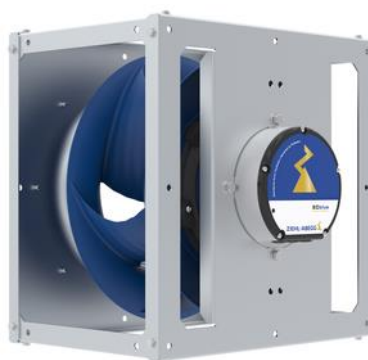


Movement by Perfection



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



Product documentation

Type
GR31I-ZID.DC.CR

Article number
116917/A01

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

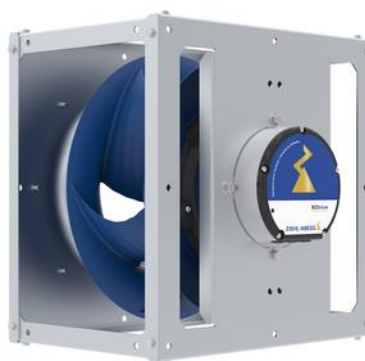
Product documentation

Customer

Project

Type
GR31I-ZID.DC.CR

Article number
116917/A01



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2.	Characteristic Curve	4
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1. Product specification - Technical data

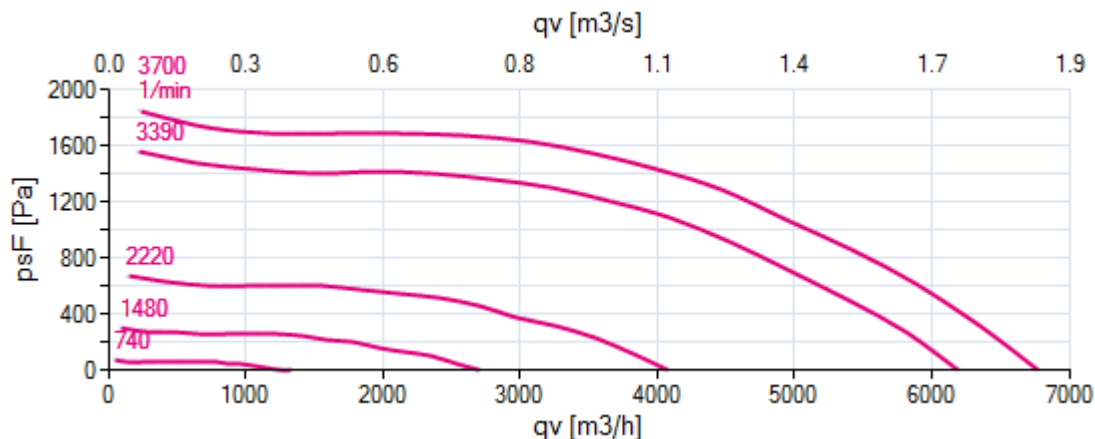
Article number	116917/A01
Type	GR31I-ZID.DC.CR
Designation	Ventilation unit with impeller with backward curved blades.
Rated values	3~380-480V 50/60Hz P ₁ 2.40kW 3.80-3.00A 3700min ⁻¹ 55°C
Electrical connection	Integrated controller
ErP Data	Efficiency η_{statA} : 74.3 % Efficiency grade: N _{actual} = 80.8 / N _{target} = 62* *ErP 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 1 coatpaint resistance class 1 (L-TI-0596)
Colour sheet rotor	RAL 5002 (ultramarine blue)
Material impeller	Impeller made of ZAmid
Painting impeller	unpainted
Colour impeller	like RAL 5002 (ultramarine blue)
Connection diagram	AP00001C
Installation position	Fitting position H/Vu/Vo
Fitting position mot	Mounting 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
Paint. inlet nozzle	unpainted
Quality of bearings	ball bearing with long-time lubrication
Support plate suction	Fan dimension suction side 408x408mm
Support plate motor	410x410
Labelling UL/CSA	E213826 ZB-155
Painting motor	Stator/rotor separately
Colour motor	Stator/rotor separately
Balance quality	G 2,5
Weight	22.00 kg

2. Characteristic Curve

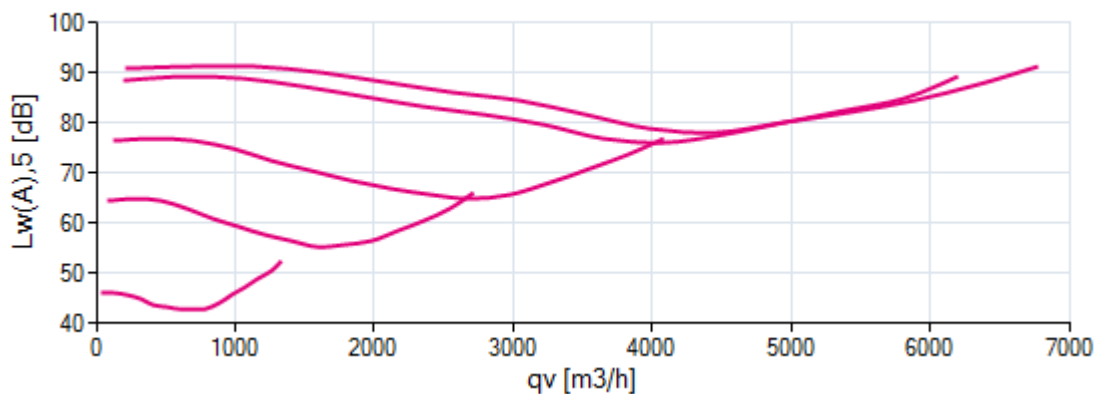
GR31I-ZID.DC.CR
3~ 400V 50Hz

measured in standard nozzle in installation type A according to ISO 5801
measurement density 1,16 kg/m³

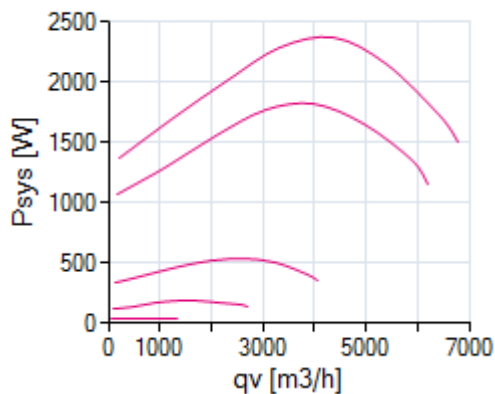
Air performance



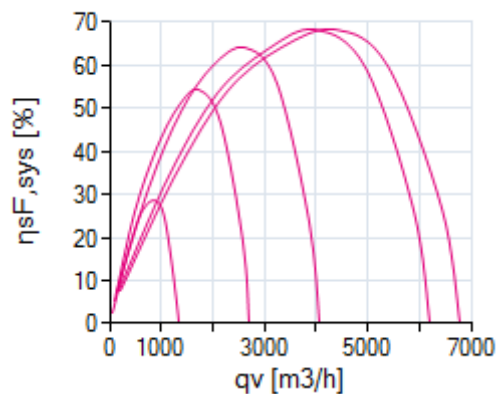
Acoustics



Power input



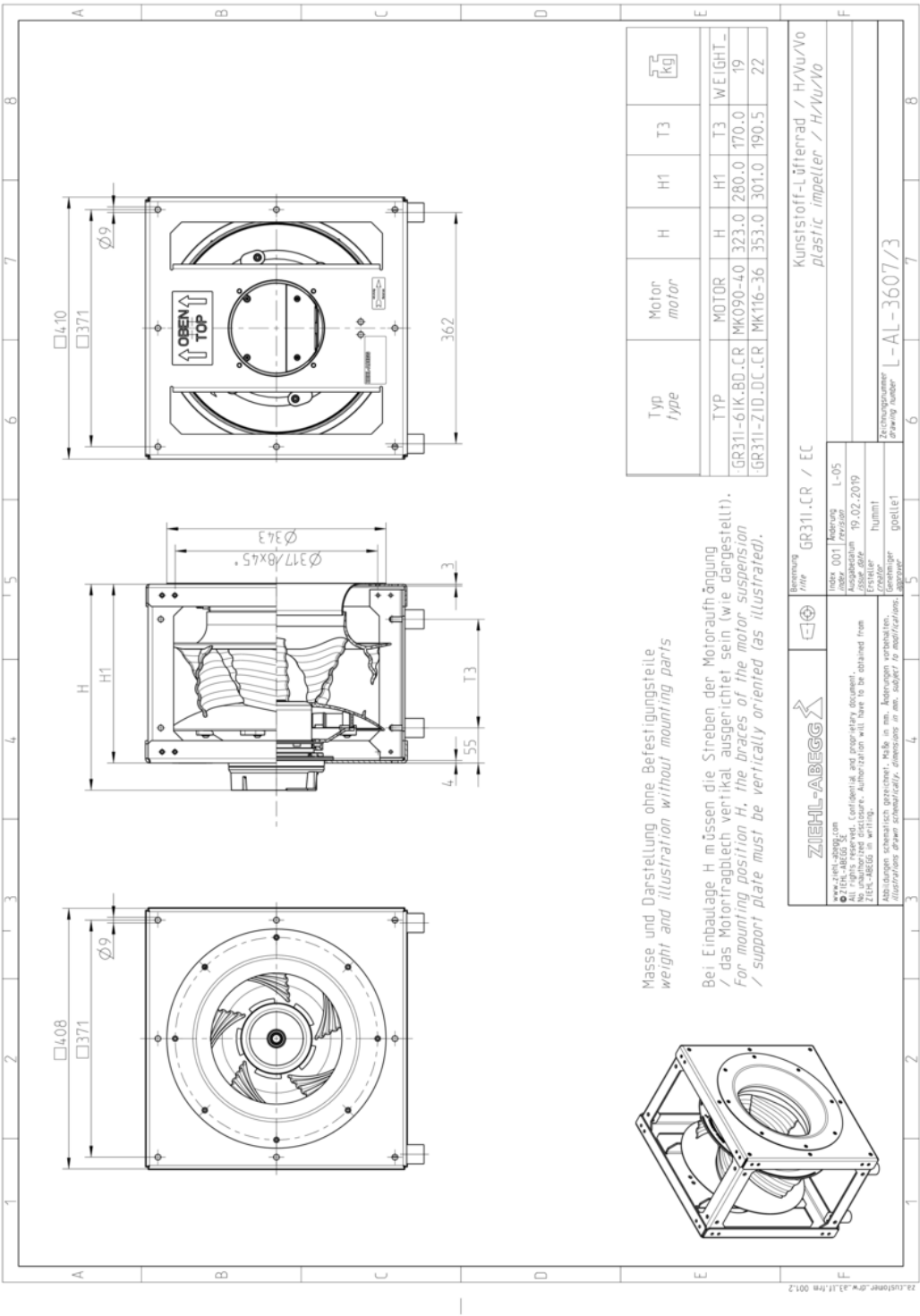
Efficiency



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

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

3. Drawing

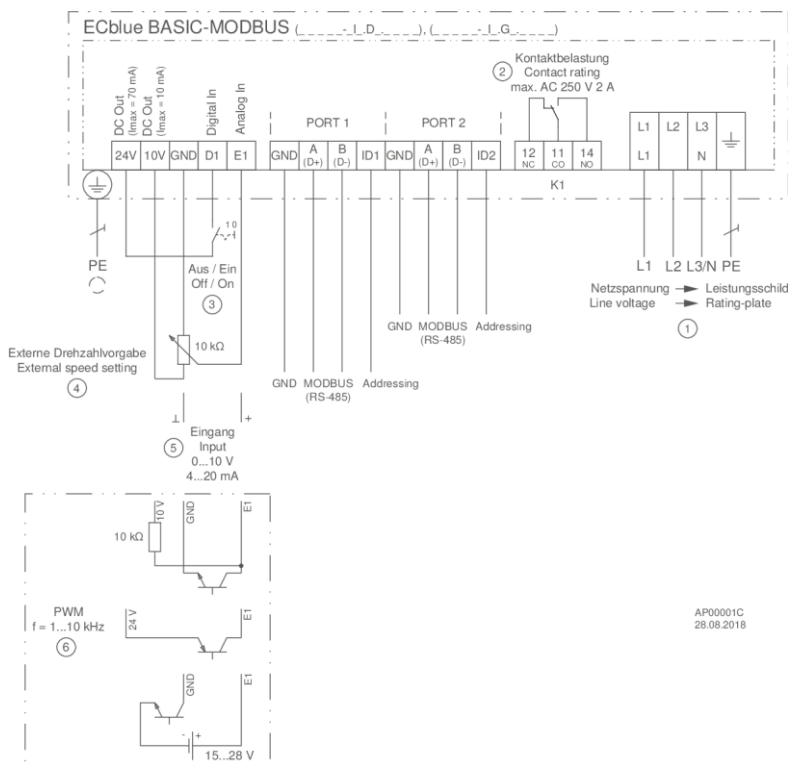


Dimensions in mm

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

4. Connection diagram

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](#).