

Movement by Perfection



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



Product documentation

Type
FC063-6DT.4I.A7

Article number
141237

Product documentation

Customer
[enter here](#)

Project
[enter here](#)

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Contents

1.	Recitals	4
2.	Product specification - Technical data	5
3.	Characteristic Curve	6
4.	Drawing	9
5.	Connection diagram	10
6.	EU-Declaration of conformity	11
7.	Deviation list	13

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

Article number	141237
Type	FC063-6DT.4I.A7
Designation	Axial fan with diecast blades
Rated values	3~230/400V $\pm 10\%$ D/Y 50Hz P ₁ 0.58kW 2.4/1.4A $\Delta I = 0\%$ 910/min COSY 0,60 VP10000M3/H D P/FA 50Pa 70°C
Electrical connection	Terminal box Integrated design.
ErP Data	Measurement category ErP: A Air flow q_v on Eta opt: 7861 m ³ /h Pressure increase p_{fs} on Eta opt: 83 Pa Input power P ₁ on Eta opt: 520 W Efficiency η_{statA} : 36.6 % Efficiency grade: $N_{actual} = 44.8 / N_{target} = 40^*$ *ErP 2015
Type of protection	IP54
Thermal class	THCL155
Special impregnation	Special impregnation HV
Connection diagram	1360-106XB
Rating plate	1x fixed
Fitting position	H/Vo
Motor protection	thermal contact
Condensation	Condensation water hole(s) in rotor closed
Quality of bearings	ball bearing with long-time lubrication
Material Rotor	Aluminium
Painting rotor	Rotor 1 coat paint resistance class 1 (L-TI-0596)
colour rotor	RAL 9005 (jet black)
painting stator	Stator 1 coat paint resistance class 1 (L-TI-0596)
colour stator	RAL 9005 (jet black)
Material blades	Aluminium
Painting blades	Blades 1 coat paint resistance class 1 (L-TI-0596)
Colour blades	RAL 9005 (jet black)
Painting mot.suspens	Motor suspension 1 coat paint resistance class 1 (L-TI-0596)
colour suspension	RAL 9005 (jet black)
Client's loose parts	Fixing brackets supplied loosely.
Special mounted part	Without guard grille.
Operating manual	L-BAL-015 www.ziehl-abegg.com/bal
Weight	11.45 kg
Min. operating temperature °C	-40°C***

*** Operation mode:

Continuous operation with occasional starts (S1) according to DIN EN 60034-1:2011-02.

Occasional starting between -40 °C and -25 °C is permissible. Continuous operation below -25 °C only with special bearings for refrigeration applications on request.

3. Characteristic Curve

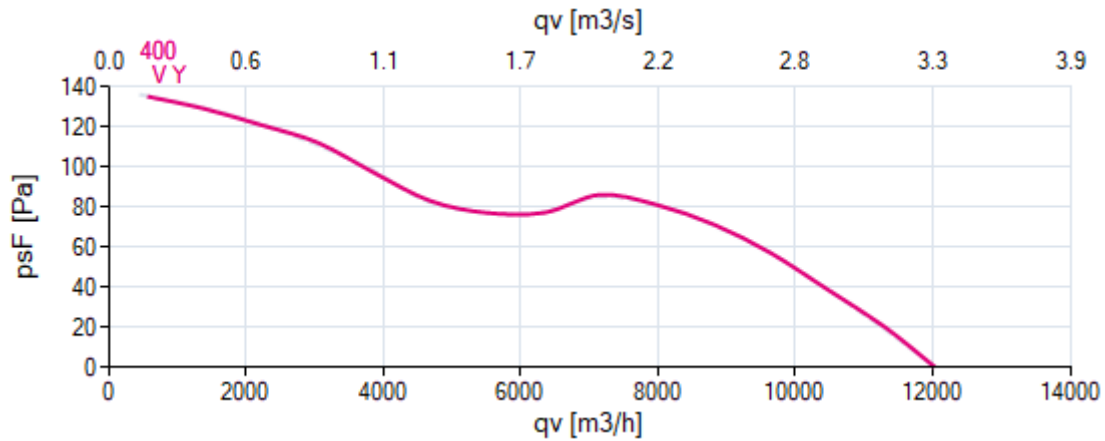
FC063-6DT.4I.A7

Measured in full nozzle without guard grille in air flow direction A in installation type A according to ISO5801

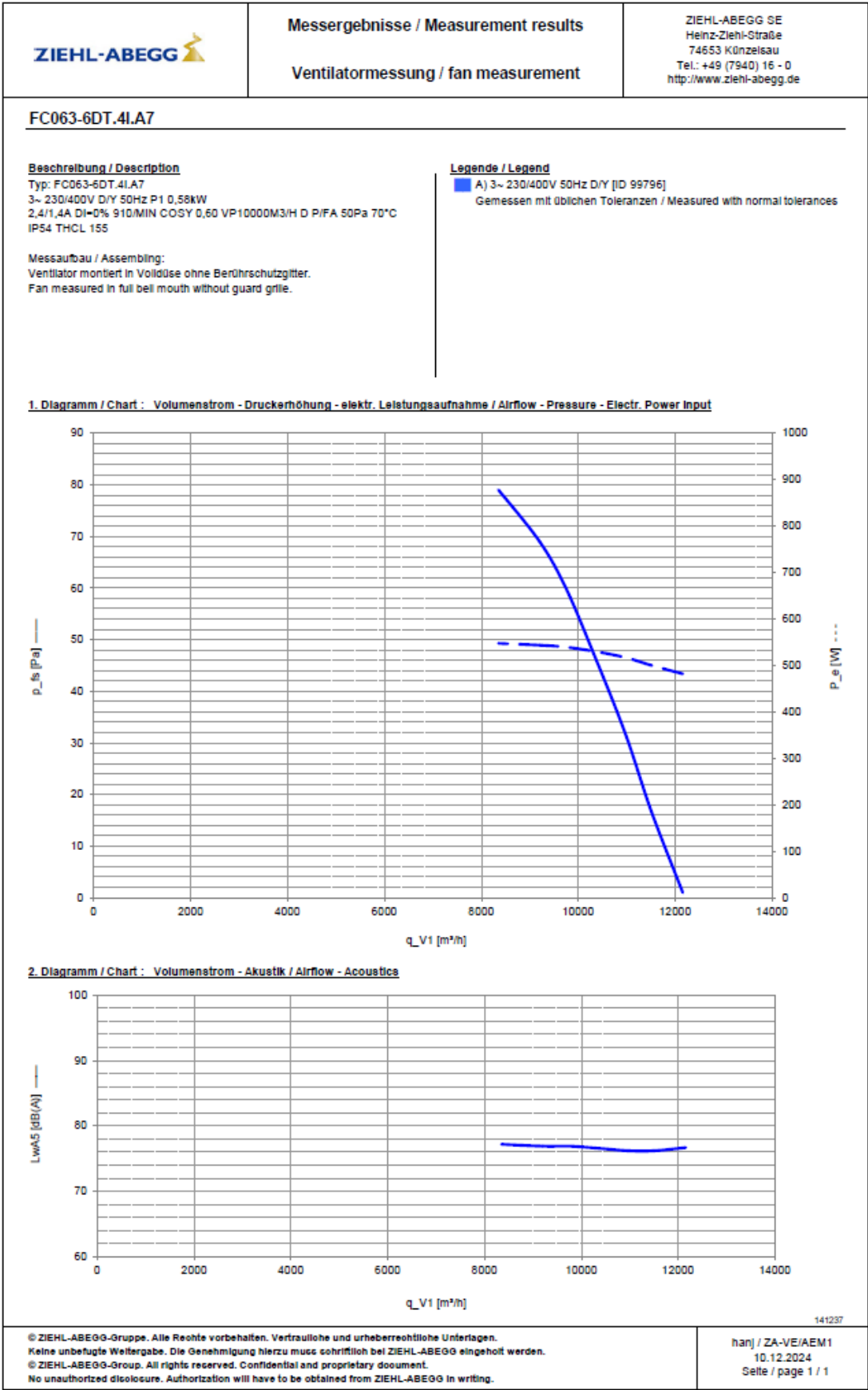
3~ 400V 50Hz Y

measurement density 1,16 kg/m³

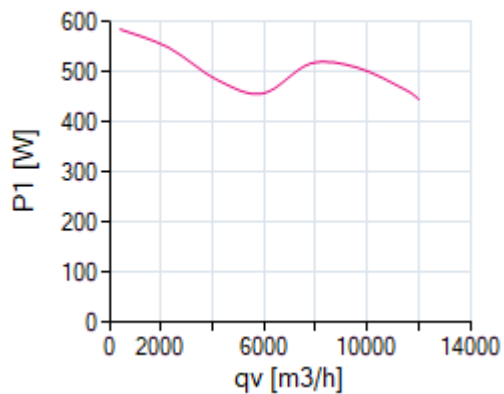
Air performance



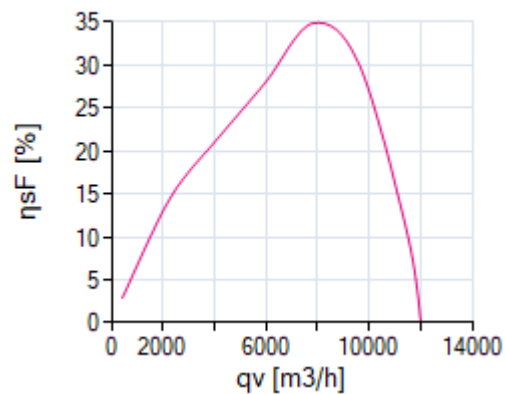
Acoustics



Power input



Efficiency



61406

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

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

Zchngs-Nr.	Ventil.-Typ	B1	B2	D1	D2	Bemerkung	Masse kg
13063-T402.1	FC063-...T.4.1.A7	218	208.5	627	636	Standard	11.5
13063-T402.2	FC063-...T.4.1.A7	218	208.5	625	630	Spezial	11.4
13063-T402.3	FC063-...T.4.F.A7	198	188.5	627	636	Standard	9.8

Zeichnerische Darstellung entspricht 13063-T402.1

ZIEHL-ABEGG

This drawing is property of Ziehl-Abegg AG. The reproduction, distribution and utilization is subject to authorization. All rights reserved.

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

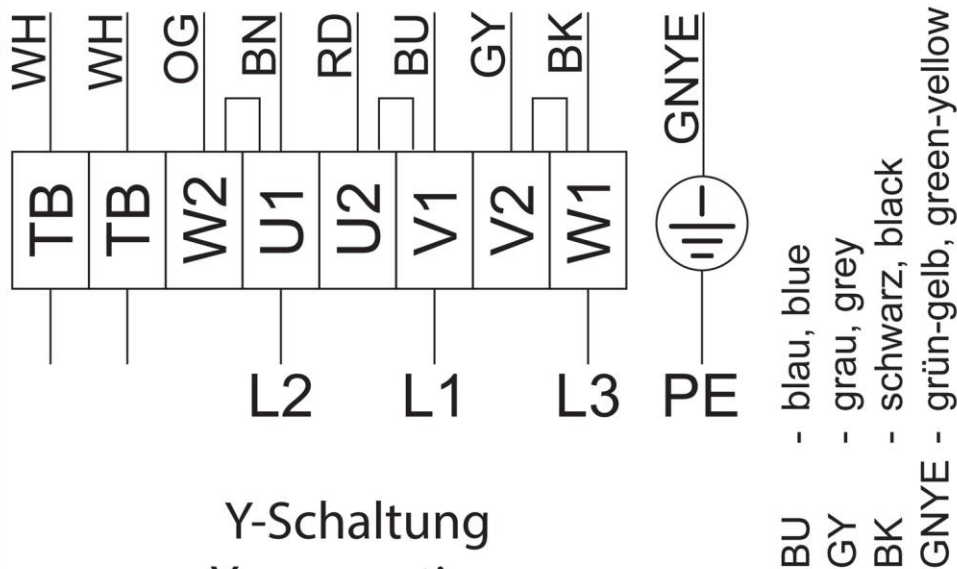
5. Connection diagram

3~ Motor mit einer Drehzahl und
Thermostatschalter (falls eingebaut).

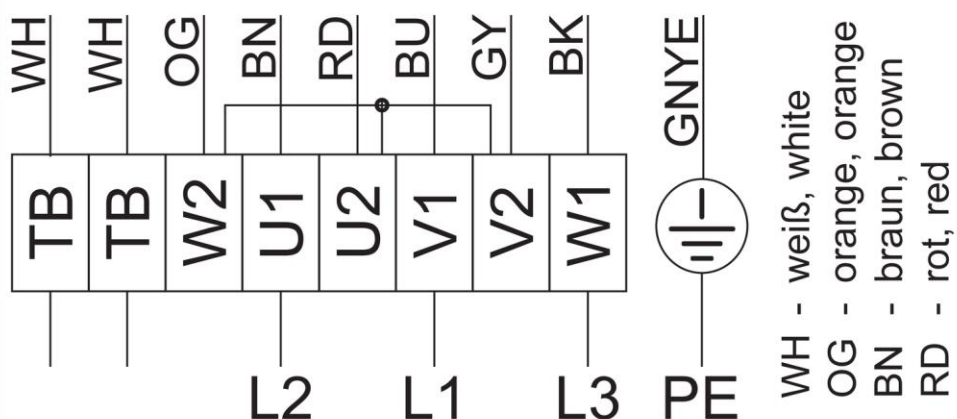
3~ motor with one speed and thermostatic
switch (if built in).

106XB-05

Δ-Schaltung Δ-connection



Y-Schaltung Y-connection



6. EU-Declaration of conformity

EU declaration of conformity

- Translation -
(english)

ZA75-GB 2022/47 Index 019

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.., FP.., 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..

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 (also with integrated EC controller)

The above mentioned products of this declaration fulfil all relevant provisions of the following Directives of the Union:

- 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 harmonized standards have been applied:

- EN 60034-1:2010 + AC:2010
- EN 60204-1:2018
- EN 60529:1991 + A1:2000 + A2:2013 + AC:1993 + AC:2016 + AC:2019
- EN IEC 61000-6-2:2019
- EN IEC 61000-6-3:2021

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, 24.11.2022
(Location, date of issue)

ZIEHL-ABEGG SE

5.1.2e

Director Product Development
Ventilation Technology
(name, function)

5.1.2e

(signature)

ZIEHL-ABEGG SE

5.1.2e

Director Projects & Series Development
Ventilation Technology
(name, function)

5.1.2e

(signature)

ZIEHL-ABEGG 

EC Declaration of Incorporation

- Translation -
(english)

ZA87-GB 2022/17 Index 012

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

The design of the partly completed machine:

- Axial fan DN..., FA..., FB..., FC..., FE..., FF..., FG..., FH..., FL..., FN..., FP..., 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:

- 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 EC Machinery Directive 2006/42/EC.

Manufacturer: ZIEHL-ABEGG SE
Heinz Ziehl Straße
74653 Künzelsau, Germany

The following harmonized standards have been applied:

EN 60204-1:2018	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 13857:2019	Safety of machinery – Safety distances to prevent hazard zones being reached by upper and lower limbs
Note:	Compliance with EN ISO 13857:2019 relates only to the installed contact protection if it is part of the scope of delivery.

The special technical documents in accordance with Appendix VII B have been created and are available in full.

The following persons are authorized to compile the technical documents, address see above.

Upon reasonable request, the special documents shall be transmitted to the public authority. The transfer can be made electronically, on data carriers or on paper. All property rights remain with the aforementioned manufacturer.

Start-up of this incomplete machine is prohibited until it is ensured that the machine in which it has been installed complies with the provisions of the EC Machinery Directive.

Künzelsau, 27.04.2022
(location, date of issue)

ZIEHL-ABEGG SE

5.1.2e

Deputy Head of Technics Ventilation Technology
(name, function)

5.1.2e

(signature)

ZIEHL-ABEGG SE

Head of Electrical Systems
(name, function)

5.1.2e

(signature)

ZIEHL-ABEGG 

7. Deviation list

No customer specification was available. Please note that ZIEHL-ABEGG does not confirm technical requirements beyond this specification if they are not listed in a list of deviations.

In case of special requests/application notes/application notes in the customer order, edit or delete if necessary:

The suitability of the product for **sea atmosphere/dishwasher/offshore** is beyond the influence of ZIEHL-ABEGG.

ZIEHL-ABEGG can therefore neither guarantee nor prove the suitability of this product for this specific application or the customer's intended use. The customer is responsible for testing and approving the product for its intended use.



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](#).

Legenda toegepaste uitzonderingsgrondslagen

In dit document zijn gegevens definitief geanonimiseerd op grond van:

Wet	Artikel	Omschrijving	Pagina's
Wet open overheid	Art. 5.1 lid 2 sub e	De eerbiediging van de persoonlijke levenssfeer	2, 9, 11, 12