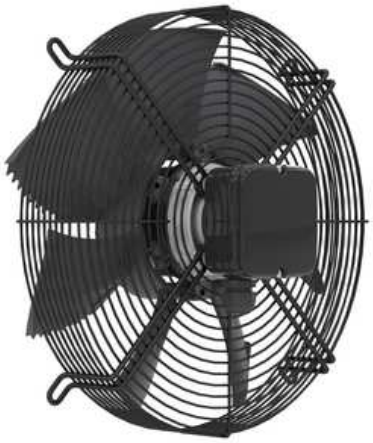
IN

Movement by Perfection

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



Product documentation

Type
FN035-VDW.0F.A7P2

Article number
155888

ZIEHL-ABEGG

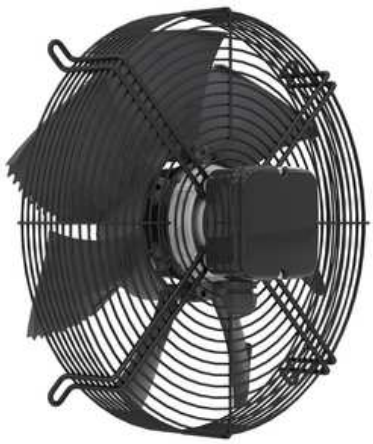
Product documentation

Customer

Project

Type
FN035-VDW.0F.A7P2

Article number
155888



Contents

1. Product specification

Technical data

Type	FN035-VDW.0F.A7P2
Designation	Axial fan with sickle blades
Rated values	3~400V±10% D/Y 50Hz P_1 190/140W 0.40/ 0.23A ΔI=0% 1390/1170/min COSY 0,69 70°C 3~400V±10% D/Y 60Hz P_1 280/180W 0,48/ 0,30A ΔI=10% 1560/1100/min COSY 0,84 70°C 3~460V±10% D/Y 60Hz P_1 300/220W 0,46/ 0,30A ΔI=10% 1630/1250/min COSY 0,82 70°C
Electrical connection	Terminal box K05
Min. operating temperature °C	-40***
Mounting type terminal box	Mounted on Stator
Type of protection	IP54
Thermal class	THCL155
Connection diagram	1360-108XB
Rating plate	1x fixed
Fitting position	H/Vu/Vo
Motor protection	thermal contact
Impregnation	Moisture and hot climate protection
Quality of bearings	ball bearing with long-time lubrication
Material Rotor	Aluminium
Painting rotor	Rotor 1 coat painted
colour rotor	RAL 9005 (jet black)
Material blades	High Performance Composite Material
Painting impeller	unpainted
Colour blades	black
Guard grille type	ring grill
Control	--
Painting mot.suspens	Motor suspension powder-coated consistency class 2
colour suspension	RAL 9005 (jet black)
Weight kg	5,10
ErP Data	Efficiency η_{statA}: 29,3 % Efficiency grade: N_{actual} = 40,3 / N_{target} = 40* *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.

2. Characteristic curve

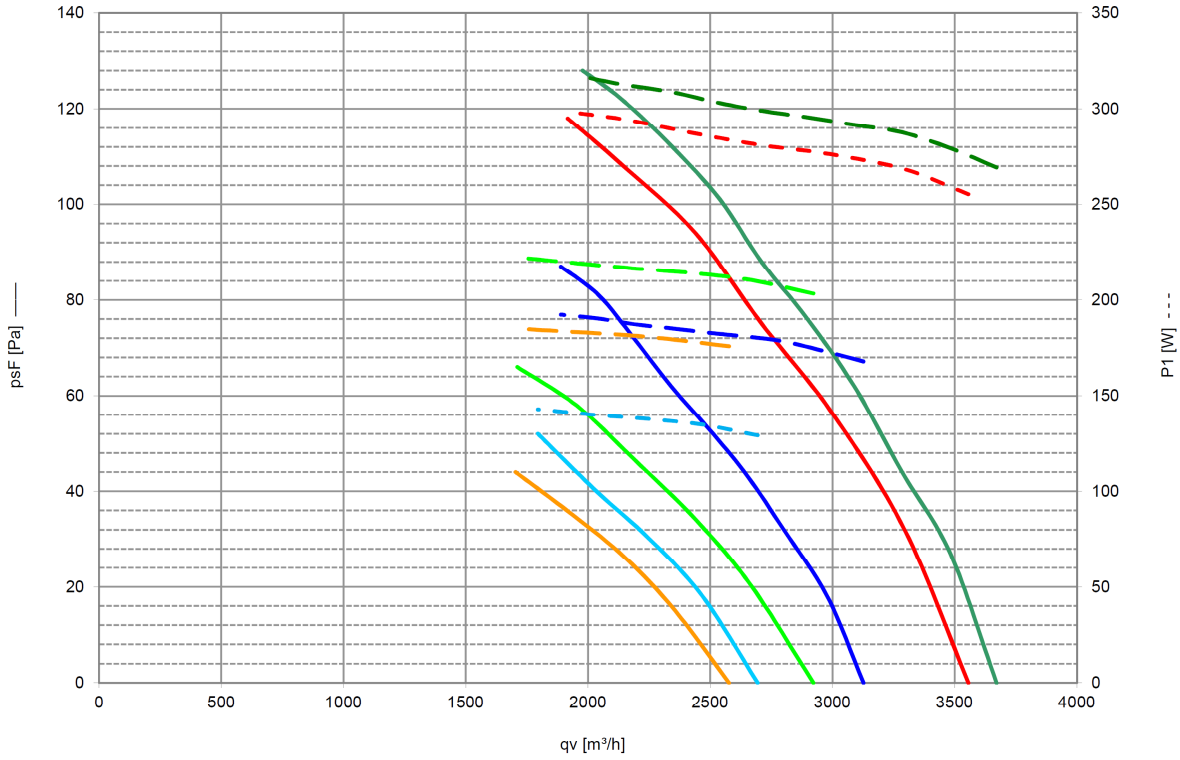
FN035-VDW.0F.A7P2

Beschreibung / Description
Typ: FN035-VDW.0F.A7P2
3~ 400V ±10% D/Y 50Hz P1 0,19/0,14kW
0,40/0,23A DI=0% 1390/1170/MIN COSY 0,69 70°C
3~ 400V ±10% D/Y 60Hz P1 0,28/0,18kW
0,48/0,30A DI=10% 1560/1100/MIN COSY 0,84 70°C
3~ 460V ±10% D/Y 60Hz P1 0,30/0,22kW
0,46/0,30A DI=10% 1630/1250/MIN COSY 0,82 70°C
IP54 THCL 155

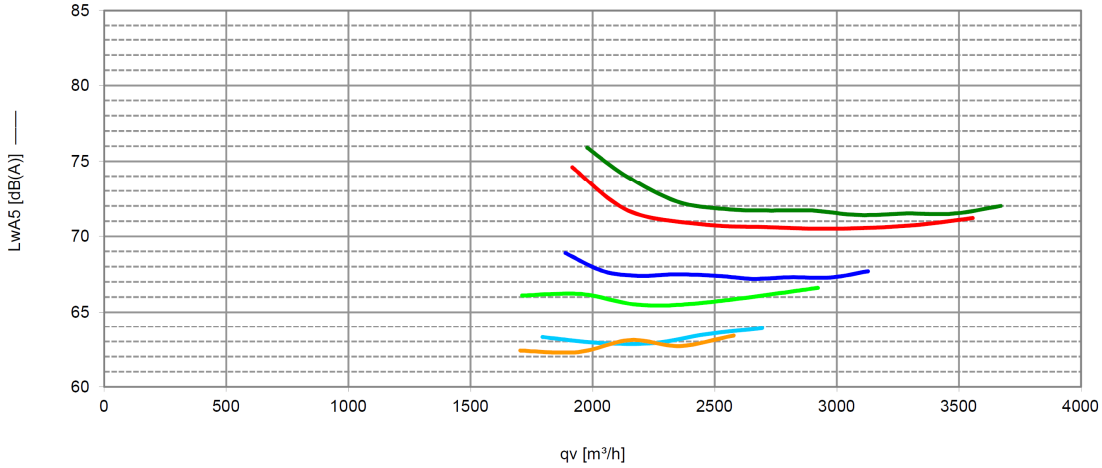
Messaufbau / Assembling:
Ventilator montiert in Kurzdüse mit saugseitigem Berührschutzgitter.
Fan measured in short bell mouth with guard grille on suction side.

Legende / Legend
A) 3~ 400V 50Hz D [ID 86263]
B) 3~ 400V 50Hz Y [ID 86263]
C) 3~ 400V 60Hz D [ID 85950]
D) 3~ 400V 60Hz Y [ID 85950]
E) 3~ 460V 60Hz D [ID 85950]
F) 3~ 460V 60Hz Y [ID 85950]
Gemessen mit üblichen Toleranzen / Measured with normal tolerances

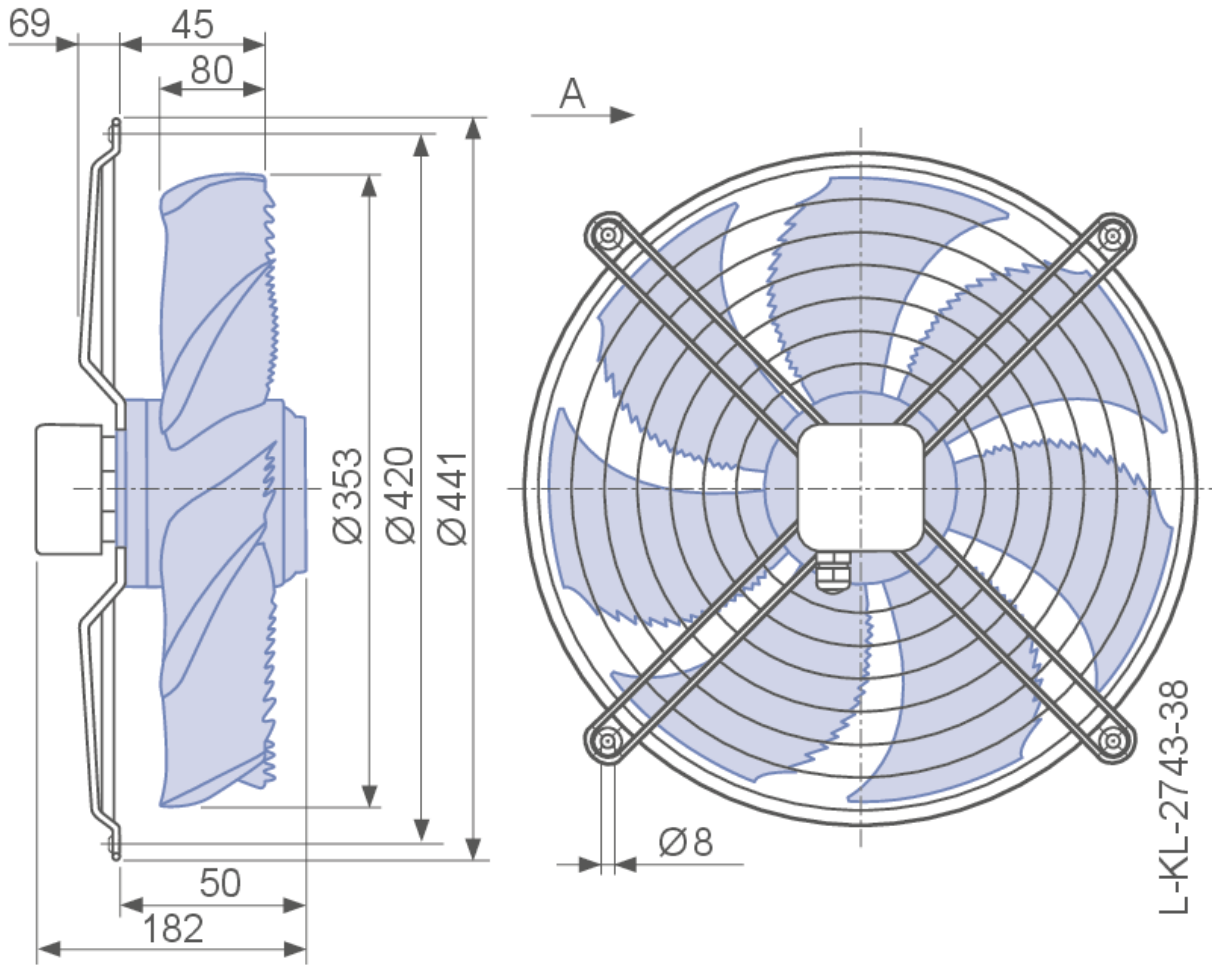
1. Diagramm / Chart : Volumenstrom - Druckerhöhung - elektr. Leistungsaufnahme / Airflow - Pressure - Electr. Power Input

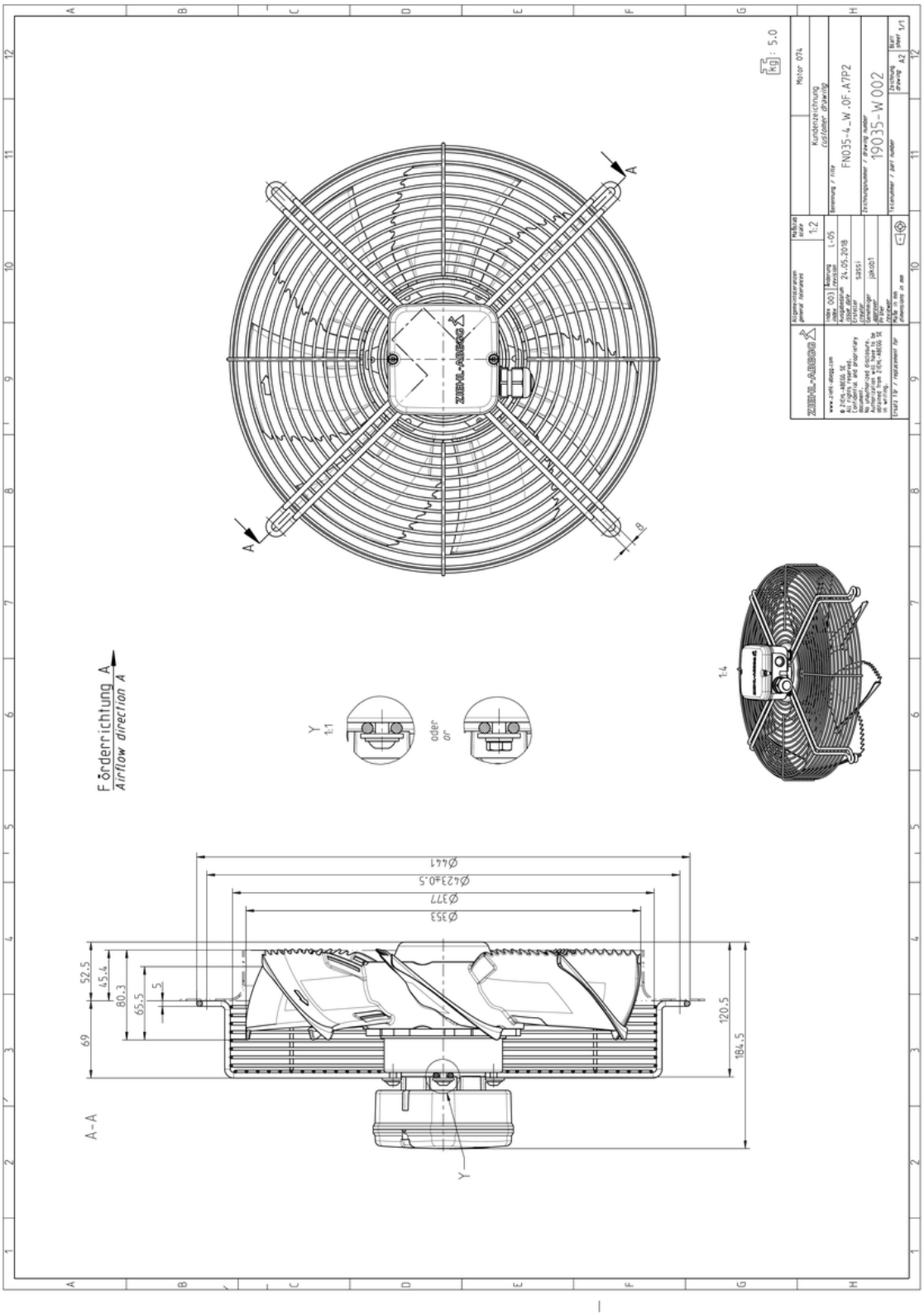


2. Diagramm / Chart : Volumenstrom - Akustik / Airflow - Acoustics



3. Drawing





Dimensions in mm
Shown drawing is just to show the dimensions of the fan.

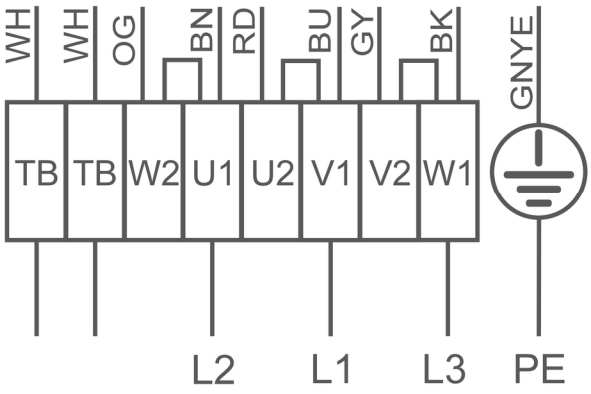
4. Connection diagram

1360-108XB

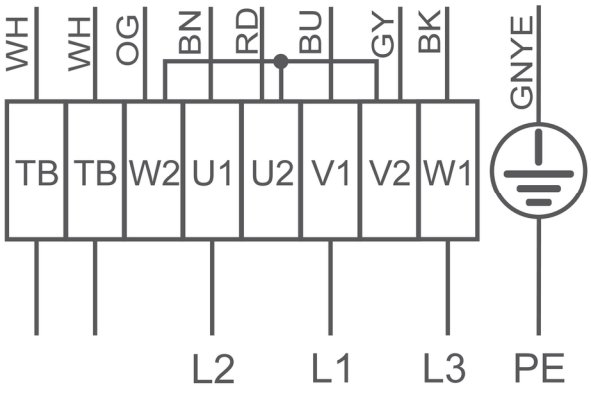
3~ motor, 2 speeds (Δ/Y switch over) with thermostatic switch (if built in). Without bridge when using speed change-over switch.

BN	brown
BU	blue
BK	black
RD	red
GY	grey
OG	orange
WH	white
GNYE	green-yellow

High speed/Δ-connection



Low speed/Y-connection



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 60204-1:2006 + A1:2009 + AC:2010
EN 60529:1991 + A1:2000 + A2:2013
EN 61000-6-3:2007 + A1:2011 + AC:2012
EN 61000-6-2:2005 + AC:2005

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)

i. V. W. Angelis

(Signature)

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Dr. D. Kappel
Deputy Head of Electrical Systems
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i. V. David Kappel

(Signature)

ZIEHL-ABEGG

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.

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