



TOTAL INGENIEROS S.A.C

VENTAS, PROYECTOS, SERVICIOS EN INGENIERIA Y SISTEMAS DE REFRIGERACIÓN



Fans

for transformer cooling
06/2017 edition

The Royal League in ventilation, control and drive technology

ZIEHL-ABEGG 

1. Especificación de producto - Datos técnicos

N.º de artículo	171154 FN035-4DD.0F.A7P2 Axial fan with sickle
Tipo	blades 3~230/400V ±10% D/Y 50Hz P1 190W
Denominación	0.69/0.40A ΔI=0% 1390/min COSY 0,69 70°C
Datos de medición	3~230/400V±10% D/Y 60Hz P1 280W
	0.83/0.48A ΔI=10% 1560/min COSY 0,84 70°C
	3~265/460V±10% D/Y 60Hz P1 300W
	0.79/ 0.46A ΔI=10% 1630/min COSY 0,82 70°C
	Supply cable axial
	9x 0,5 mm ² , 55 cm
Conexión eléctrica	Efficiency η _{statA} : 29.3 %
	Efficiency grade: N _{actual} = 40.3 / N _{target} = 40*
Datos ErP	*ErP 2015
	IP54
	THCL155
Tipo de protección	55 cm
Clase de aislamiento térmico	-40°C***
longitud del cable	Li4G4G-J
Min. operating temperature	1360-106XB
Calidad del cable	1x fixed
Diagrama de conexiones	H/Vu/Vo
Placa de características	thermal contact
Posición de montaje	Moisture and hot climate protection
Protección del motor	Condensation water holes in stator/rotor open
Impregnación	ball bearing with long-time lubrication
condensación	Aluminium
Calidad de los rodamientos	Rotor 1 coat painted
Material del rotor	RAL 9005 (jet black)
Pintura del rotor	High Performance Composite Material
Color del rotor	unpainted
Material de las palas	black
Pintura del rodete	ring grill
Color de palas	All connecting elements in stainless steel.
Tipo de rejilla	All connecting elements secured with Loctite.
Otro	Motor suspension powder-coated consistency class 2
Otro	RAL 9005 (jet black)
Pintura de la suspensión del motor	4.80kg
Color de la suspensión	
Weight	

*** 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.

Permissible minimum and maximum ambient temperature for operation:

Please refer to the technical documentation of the product for the minimum and maximum ambient temperature valid for the respective fan. Operation below -25 °C as well as partial load operation for refrigeration applications is only possible with special bearings for refrigeration applications on request. If special bearings for refrigeration applications are installed in the fan, please observe the permissible maximum temperatures in the technical documentation of the product.

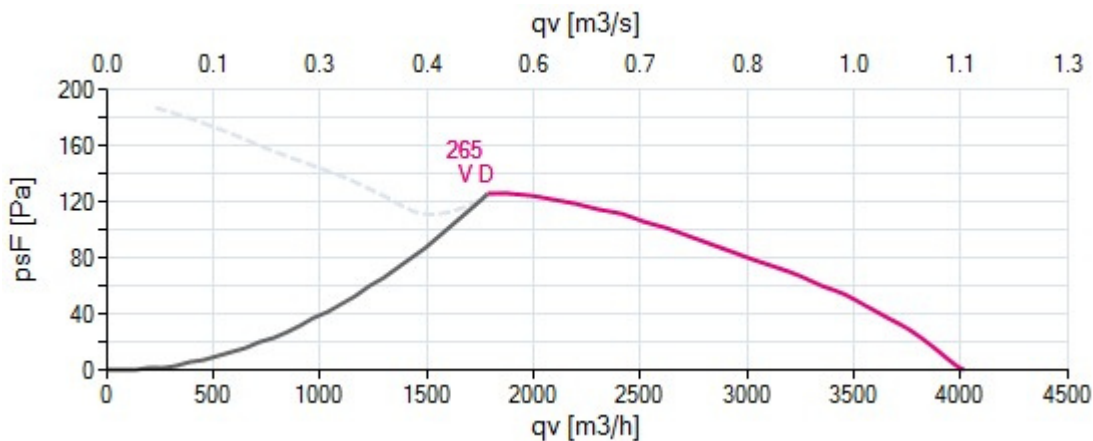
2. Curva característica

FN035-4DD.0F.A7P2

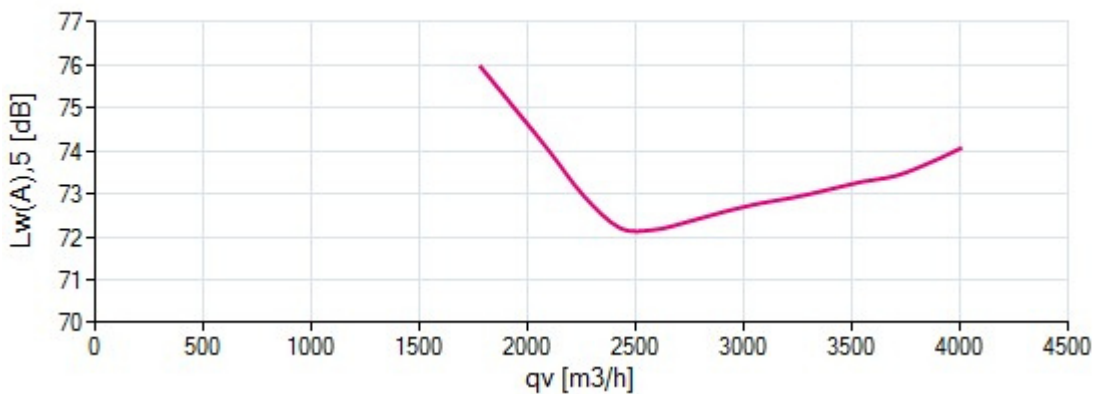
3~ 230V 60Hz D

Densidades de medida 1,16 kg/m³

Rendimiento del aire

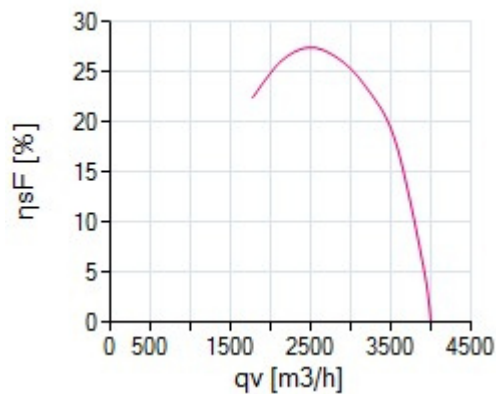
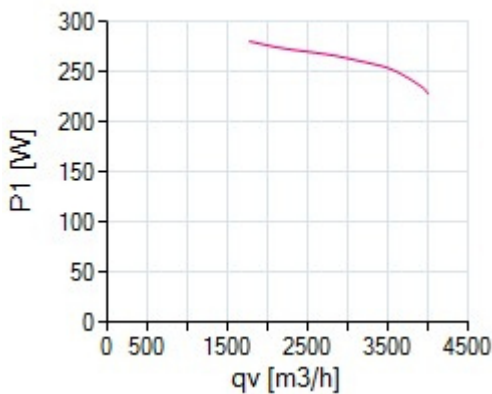


Acústica



Potencia de entrada

Eficiencia



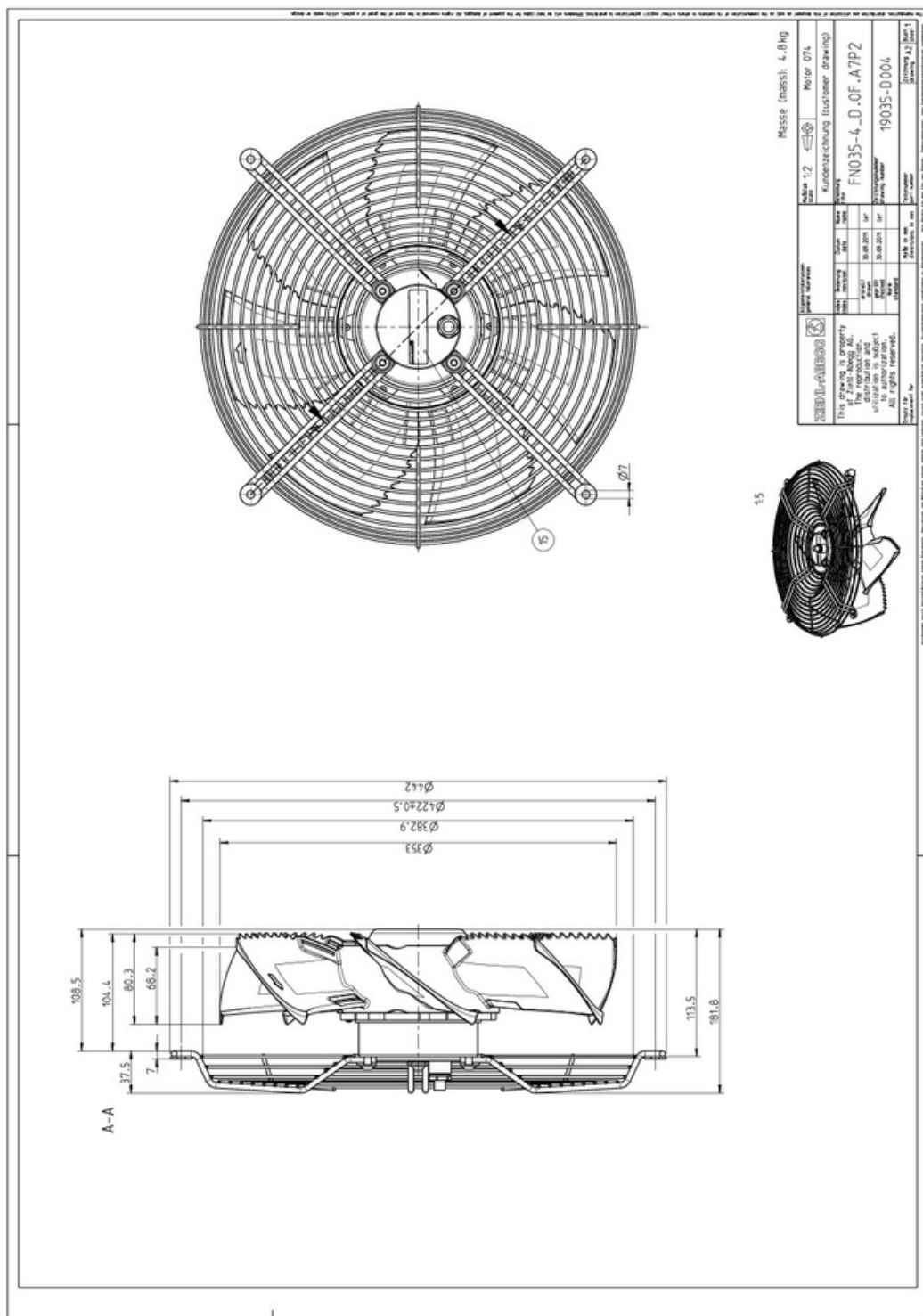
Please note: It's not allowed to use this fan in the stall area!*

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

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Die Königsklasse

3. Plano



Dimensiones en mm

El esquema adjunto es sólo a efectos de dimensiones.

4. Diagrama de conexiones

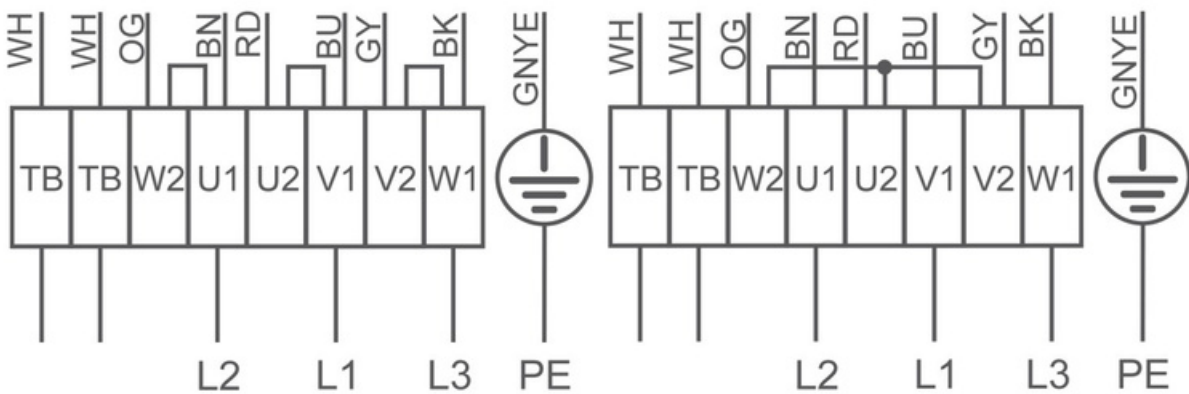
1360-106XB

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

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

Δ-connection

Y-connection



5. EU-Declaración de conformidad

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

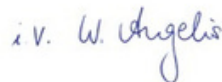
Compliance with the ErP Directive 2009/125/EC does not refer to external rotor motors MK..., MW...

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

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Die Königsklasse



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](#).