

Movement by Perfection



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



Product documentation

Type
FN045-4DK.4I.V7P1

Article number
159588

Product documentation

Customer

ZIEHL-ABEGG Contact

Project

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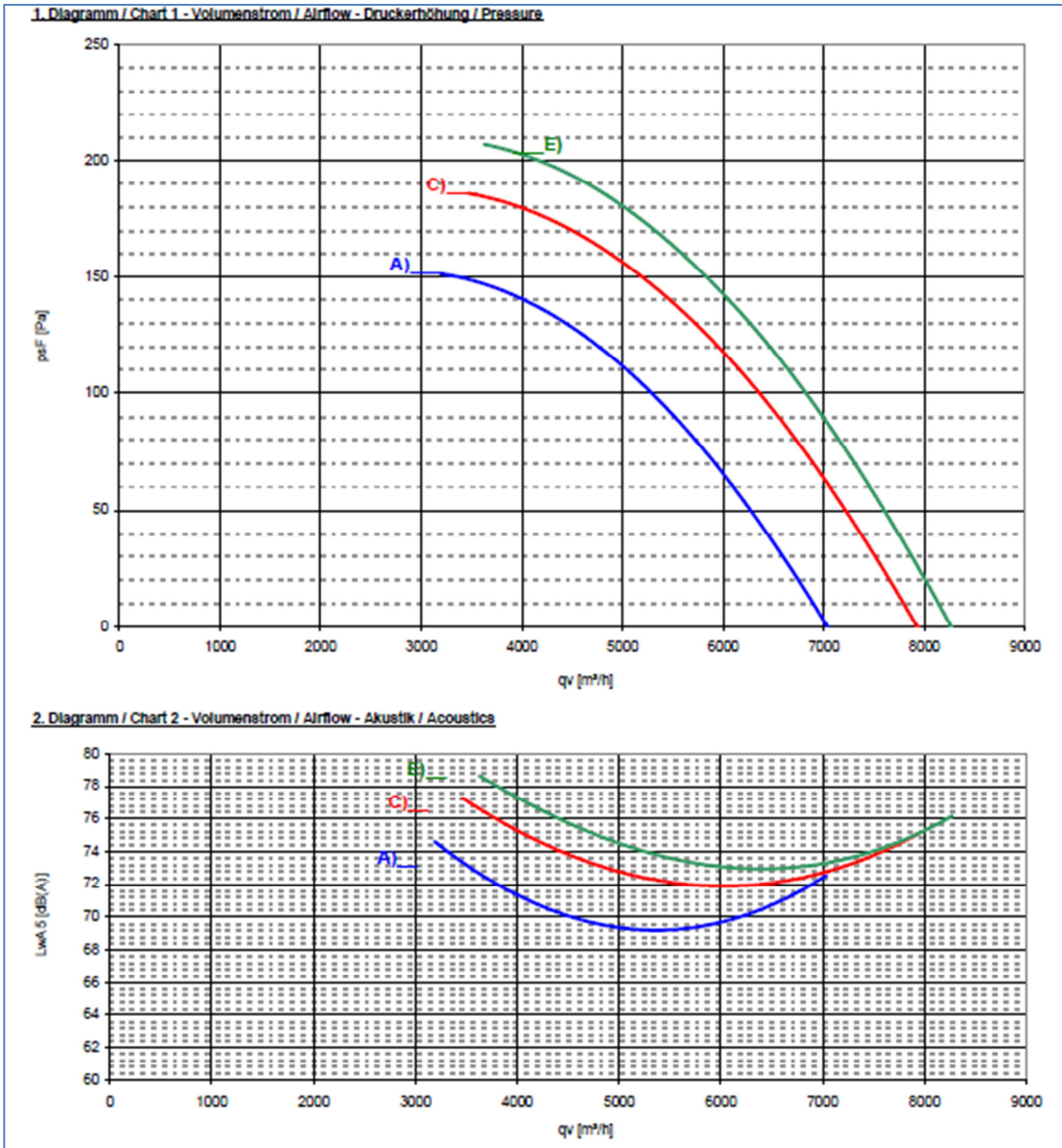
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1. Product specification

Technical data

Article number	159588
Type	FN045-4DK.4I.V7P1
Designation	Axial fan with sickle blades
Rated values	3~230/400V±10% D/Y 50Hz P ₁ 0.52kW 2.10/ 1.20A ΔI=0% 1320/min COSY 0,62 80°C 3~230/400V±10% D/Y 60Hz P ₁ 0.75kW 2.30/ 1.35A ΔI=0% 1450/min COSY 0,79 80°C 3~265/460V±10% D/Y 60Hz P ₁ 0.82kW 2.40/ 1.40A ΔI=0% 1520/min COSY 0,79 80°C
Electrical connection	Terminal box K62
Min. operating temperature °C	-40
Mounting type terminal box	Mounted on Stator
Type of protection	IP54
Thermal class	THCL155
Connection diagram	1360-106XA
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	unpainted
Material blades	Aluminium
Painting impeller	unpainted
Guard grille type	ring grille
Painting mot.suspens	Motor suspension powder-coated consistency class 2
colour suspension	RAL 9005 (jet black)
Weight kg	12,60
ErP Data	Efficiency η_{statA} : 32.9 % Efficiency: $N_{\text{actual}} = 41.1 / N_{\text{target}} = 40^*$ *ErP 2015

2. Characteristic curve



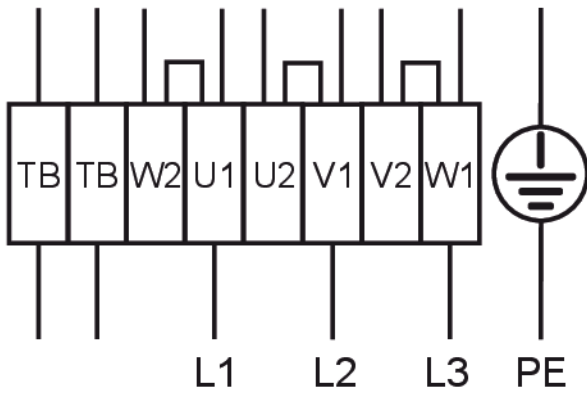
4. Connection diagram

1360-106XA

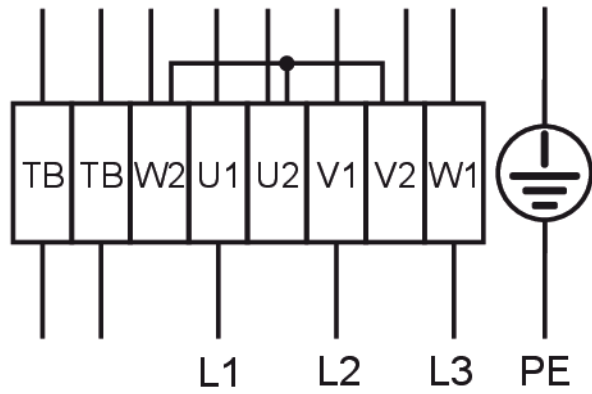
3~ motor with one speed and thermostatic switch (if built in).

U1brownV1blueW1blackU2redV2greyW2orangeTBwhite

Δ -connection



Y-connection



5. EU-Declaration of conformity

EC-Declaration of conformity

- Translation -
(english)
ZA75-GB 1616 Index 011
00285644-GB

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 FA..., FB..., FC..., FE..., FF..., FS..., FT..., FH..., FL..., FN..., FV..., DN..., VR..., VN..., ZC..., ZF..., ZN..
- Centrifugal fan RA..., RD..., RE..., RF..., RG..., RH..., RK..., RM..., RR..., RZ..., GR..., ER..
- Cross-flow fan QK..., QR..., QT..., QG..

The engine type:

- Asynchronous internal or external rotor motor
- Asynchronous internal or external rotor motor with integrated frequency inverter, except EDP system
- Electronically commutated (EC) internal or external rotor motor
- Electronically commutated internal or external rotor motor with integrated EC Controller, except EDP system

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 harmonized standards are in use:

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

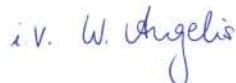
Compliance with the ErP Directive 2009/125/EC does not refer to external rotor motors MK..., MW..

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 (eg. sensing controls) and operated , the manufacturer or operator is responsible of the overall system for compliance with the EMC Directive 2014/30 / EU .

Künzelsau, 20.04.2016
(Location, date of issue)

ZIEHL-ABEGG SE
Dr. W. Angelis
Technical Director Air Movement Division
(Name, Function)



(Signature)



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](#).