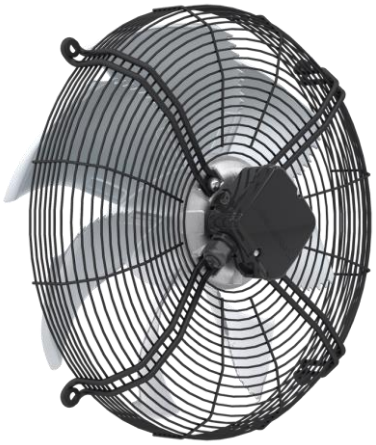
EN

Movement by Perfection

The Royal League in ventilation, control and drive technology



Product documentation

Type
FN050-VDK.4I.V7P1

Article number
140056

ZIEHL-ABEGG

Product documentation

ZIEHL-ABEGG Subsidiary
Headquarters ZIEHL-ABEGG SE
Heinz-Ziehl-Straße
74653 Künzelsau
Tel. +49 7940 16-0
Fax +49 7940 16-300
info@ziehl-abegg.de
www.ziehl-abegg.de

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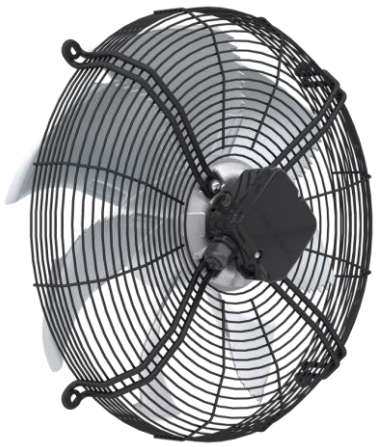

Table of Contents

1. Product Specification - Technical Data

Article number	140056	
Type	FN050-VDK.4I.V7P1	
Rated values	3~400V D/Y 50Hz P(1) 0.84/0.54kW 1.45/0.96A ΔI=15% 1340/940/min COSY 0,80 70°C Hz	
Electrical connection	Terminal box K62	
ErP Data	Measurement category ErP: A Air flow q(v) on Eta opt: 6159 m3/h Pressure increase p(fs) on Eta opt: 149 Pa Input power P(1) on Eta opt: 760 W Efficiency H(statA): 34.2 % Efficiency grade: N(actual) = 41.3 / N(target) = 40* *ErP 2015	
Type Of Protection	IP54	
Heat Class	THCL155	
Mounting Type Terminal Box	Mounted on Stator	
Connection Diagram	1360-108XA	
Rating Plate	1x fixed	
Fitting Position	H/Vu/Vo	
Motor Protection	thermal contact	
Impregnation	Moisture and hot climate protection	
Condensation Drain Holes	Condensation drain holes stator/rotor open	
Bearing Quality	ball bearing with long-time lubrication	
Material Rotor	Aluminium	
Painting Rotor	Rotor unpainted	
Painting Stator	Stator unpainted	
Material Blades	Aluminium	
Painting Impeller	Blades unpainted	
Contact Protection Type	ring grill	
Other	Balancing quality G 4,0	
Operating Manual	L-BAL-001	
Engine Suspension Paint	Motor suspension powder-coated resistance class 2 (L-TI-0585)	
Weight	13.30	kg
Colour Suspension	RAL 9005 (jet black)	
Min. Operating Temperature °C	-40°C***	
Disclaimer Ct20/Doe	Selected product is not governed by U.S. DOE and CT20 industrial fan and blower regulations.	

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.

2. Duty Point Data

FN050-VDK.4I.V7P1 (140056)

Design | Fan Size | Motor Brand		V-K | 500 | FE2owlet
SFP Class | SFP Value (Psfp)	- | wspm3	| 0,0
FEI | FEG		0,0 |
Actual FEP | Reference FEP		|
Airflow (qV) | Airflow Mains	m³/h	0,0 | 0,0
Pressure, stat. (psF) | Static Pressure Mains	Pa	0,0 | 0,0
Dynamic Pressure	Pa	0,0
Total Pressure (pF)	Pa	0,0
Air Velocity	m/s	0,0
Density	kg/m³	1,16
Altitude		
Temperature	celsius	20
RPM (n) | RPM Percentage | max.(nmax)	1/min	**0,0 @ % | 1340**
Absorbed Power (Psys)	W	0,0
Elec. Power	W	0,0
Shaft Power	W	0,0
System Efficiency, stat. (ηsF,sys) | tot. (ηF,sys)	**%**	**0,0 | 0,0**
Eta ERP | ERP Year		41,3 | 2015
Frequency	Hz	50
Voltage	V	
Current	A	0,0
Suction Acoustics (Lw(A),5) | (Lw,5)	dB(A)	**0 | 0**
Pressure Acoustics (Lw(A),6) | (Lw,6)	dB(A)	**0 | 0**
Enclosure / Impeller		
Dimensions (Width x Height x Depth)	mm	591 x 591 x 226
Installation (Width x Height x Depth)	mm	x x
Mass	kg	13,3
Kfactor | Kfactor Grille		|
Nozzle Pressure (psF Düse)	Pa	0,0
Guard Grille		

Full Octave band

f [Hz]	sum	63	125	250	500	1000	2000	4000	8000
$L_{w,5}$	0	0							
$L_{w(A),5}$	0	0							

f [Hz]	sum	63	125	250	500	1000	2000	4000	8000
$L_{w,6}$	0	0							
$L_{w(A),6}$	0	0							

Article number
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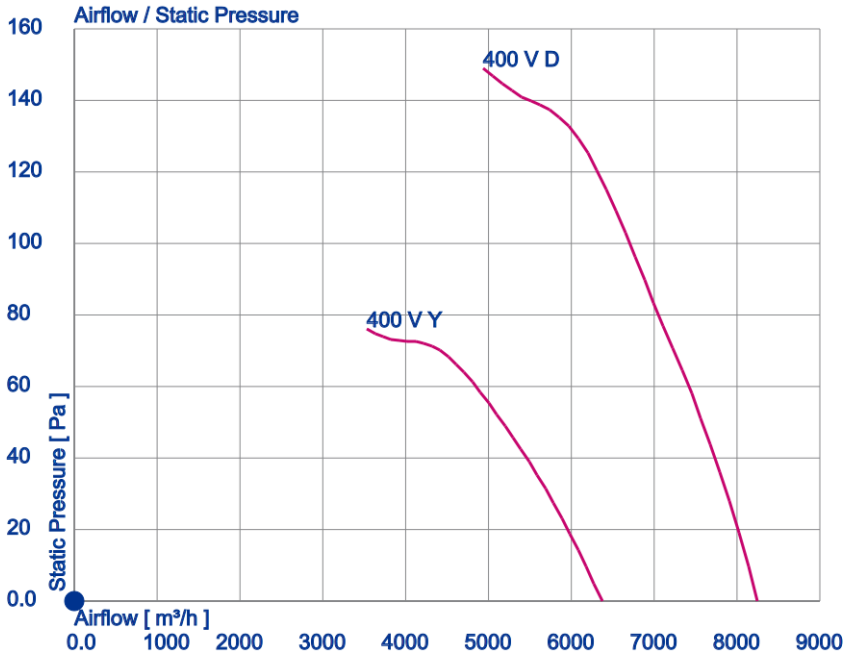
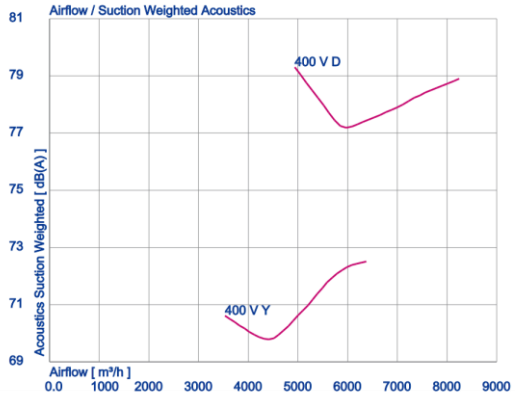
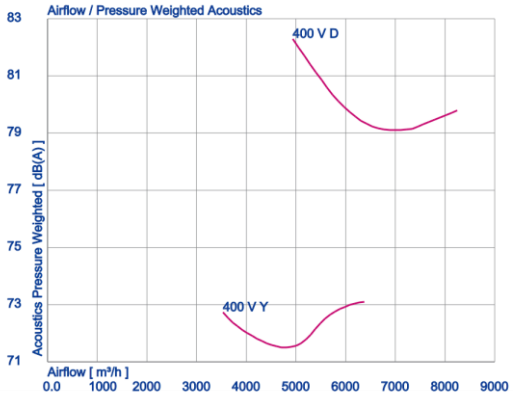
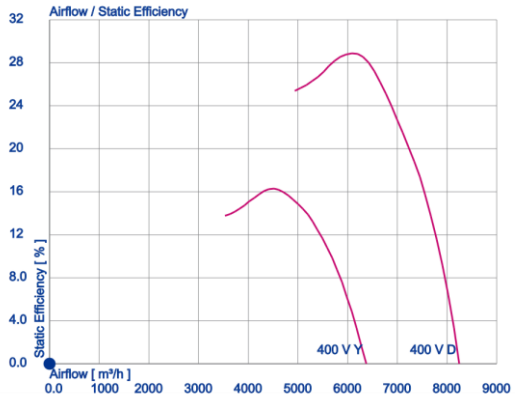
3. Characteristic Curve

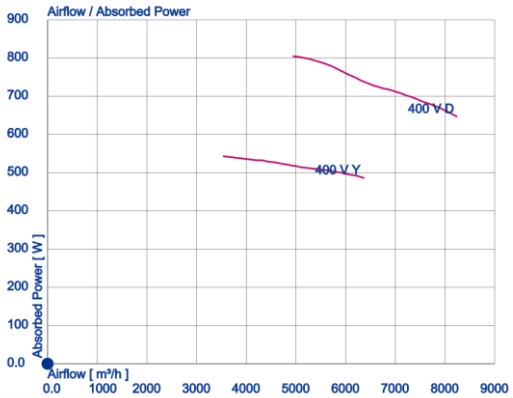
Measured in short nozzle with pressure side guard grille in air flow direction V in installation type A according to ISO5801



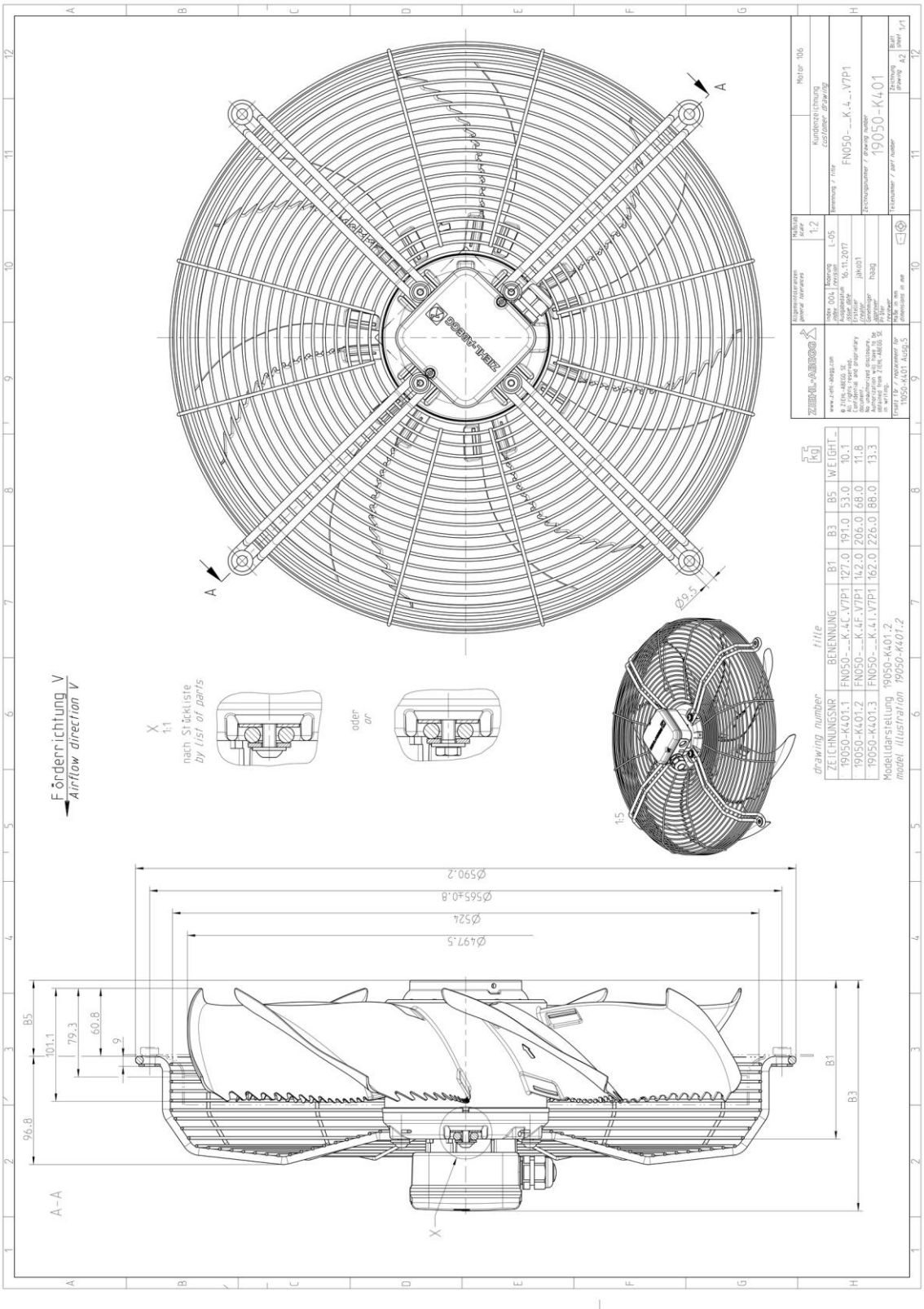








4. Drawing



Dimensions in mm

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

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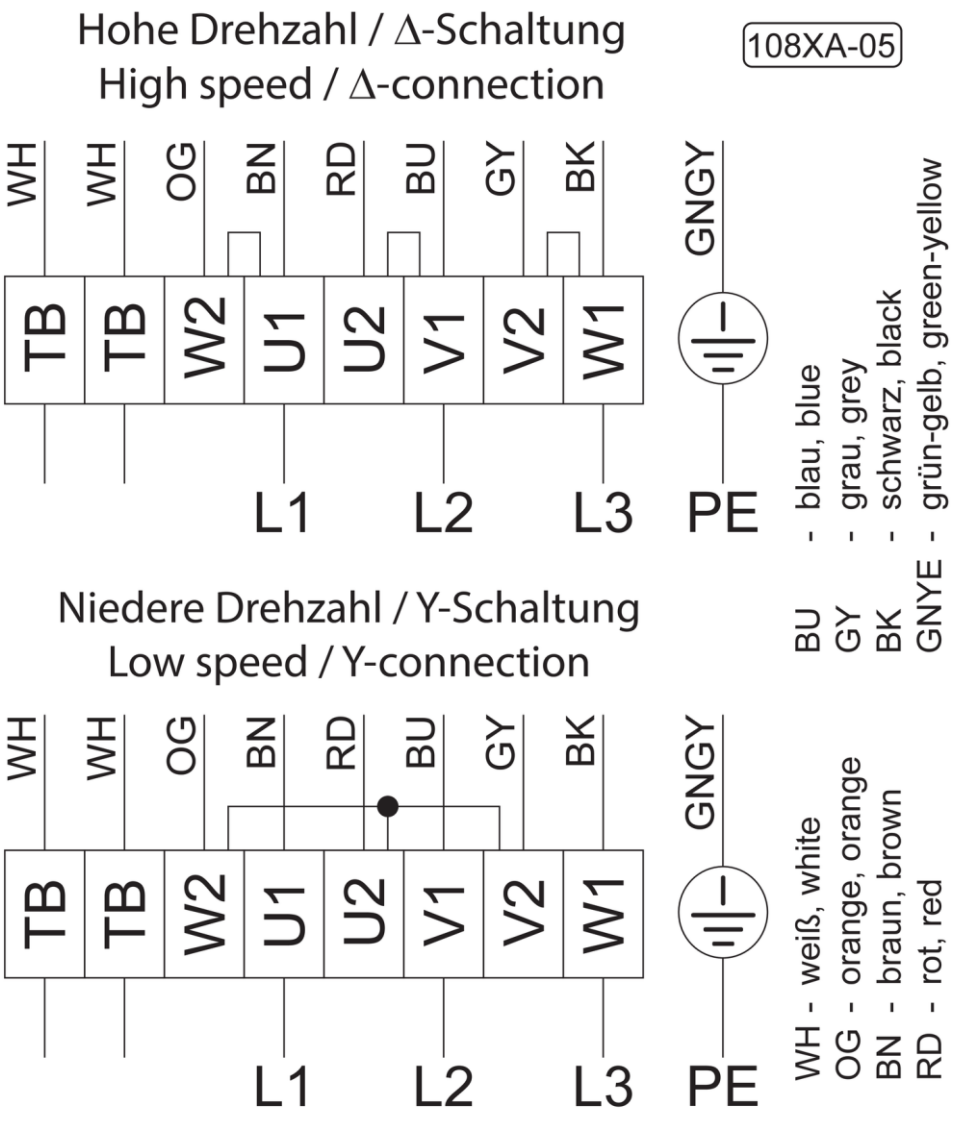
5. Connection Diagram

3~ Motor mit 2 Drehzahlen (Δ/Y-Umschaltung) und Thermostatschalter (falls eingebaut). Ohne Brücke bei Verwendung von Drehzahlumschalter.

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



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Die Königsklasse

6. 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.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.

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