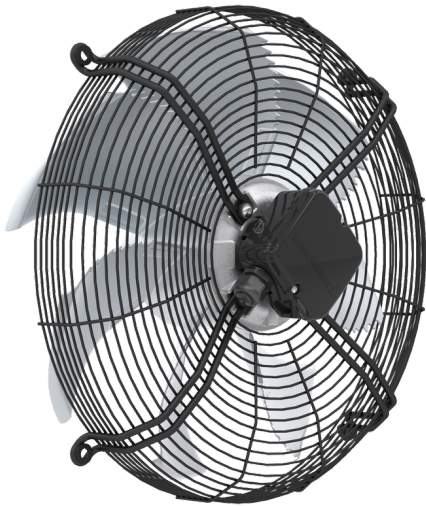


Movement by Perfection



The Royal League in ventilation, control and drive technology

Duty Point Overview



Typ: FN050-VDK.4I.V7P1

Article number: 140056

ZIEHL-ABEGG Contact

Danny Pacher
dayan@dayan-rs.com

Responsible Sales

Aris Qian

China ZIEHL-ABEGG Mechanical and Electrical
Equipment (Shanghai) Co. Ltd.
No. 65 Hong Mu Dan Road
Xinbang Town
Songjiang District
SHANGHAI 201605
CHINA
Phone +86 21 57893991
Fax +86 21 57893932
www.ziehl-abegg.cn
info@ziehl-abegg.com.cn

Contents

1. Technical Data	4
2. Duty Point Data	5
3. Characteristic Curve	6
4. Drawing	7
5. Connection Diagram	8
6. Deviation List	9

1. Technical Data

Article number	140056
Type key	FN050-VDK.4I.V7P1
Designation	Axial fan with sickle blades
Fan design	with guard grille for short bell mouth
Rated values	3~400V D/Y 50Hz P_1 0,84/0,54kW 1.45/0.96A $\Delta I=15\%$ 1340/940/min COSY 0,80 70°C Hz
Electrical connection	Terminal box K62
Conformity	ErP2026-Status: Non compliant
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 η_{statA} : 34.2 % Efficiency grade: $N_{actual} = 41.3 / N_{target} = 40^*$ *ErP 2015
Thermal class	THCL155
Painting motor	Fan unpainted
Colour suspension	RAL 9005 (jet black)
Material rotor	Aluminium
Painting rotor	Rotor unpainted
Material blades/impeller	Aluminium
Painting impeller	Blades unpainted
Connection diagram	wiring diagram: 1360-108XA
Fitting position	H/Vu/Vo
Motor protection	thermal contact
Type of protection	IP54
Impregnation	Moisture and hot climate protection
Quality of bearings	ball bearing with long-time lubrication
Colour motor	Fan unpainted.
Rating plate	1x fixed
Condens. drain holes	Condensation drain holes stator/rotor open
Guard grille type	ring grill
Miscellaneous	Balancing quality G 4,0
Terminal box mount	Mounted on Stator
Number of blades	7
Blade setting	P
Weight	13.30 kg
Min. operating temperature	-40°C***

2. Duty Point Data

FN050-VDK.4I.V7P1 (140056)		
Design Fan Size Motor Brand	V-K 500 FE2owlet AC	
SFP Class SFP Value (sfp)	wspm3	0
FEI FEG		0
Airflow (qv) Airflow Mains	m³/h	0 0
Static Pressure (psf) Static Pressure Mains	Pa	0 0
Dynamic Pressure	Pa	0
Total Pressure pf	Pa	0
Air Velocity	m/s	0.0
Density	kg/m³	1.16
Temperature	°C	20.00
Nominal Rpm (n) RPM Percentage max.(nmax)	1/min	0 @ 0.00% 1340
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
Suction Acoustics (Lw(A),5) (Lw,5)	dB(A) dB	0 0
Pressure Acoustics (Lw(A),6) (Lw,6)	dB(A) dB	0 0
Dimensions (Width x Height x Depth)	mm	591 x 591 x 226
Mass	kg	13.3
Kfactor Kfactor Grille		
Guard Grille		

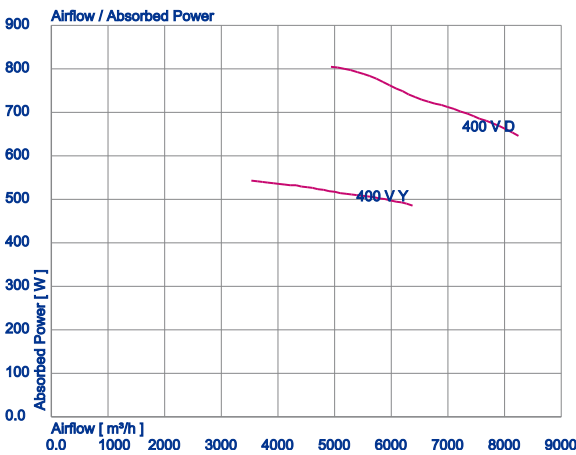
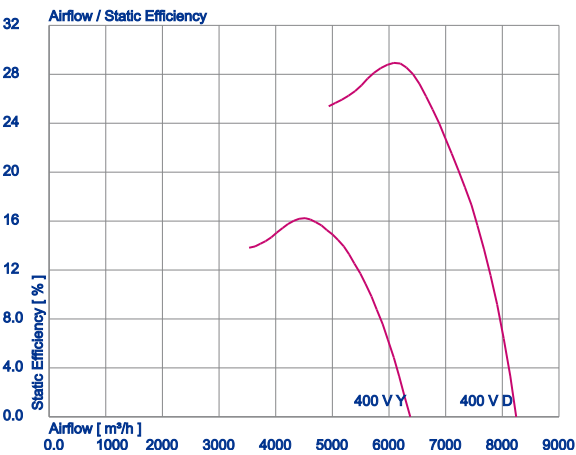
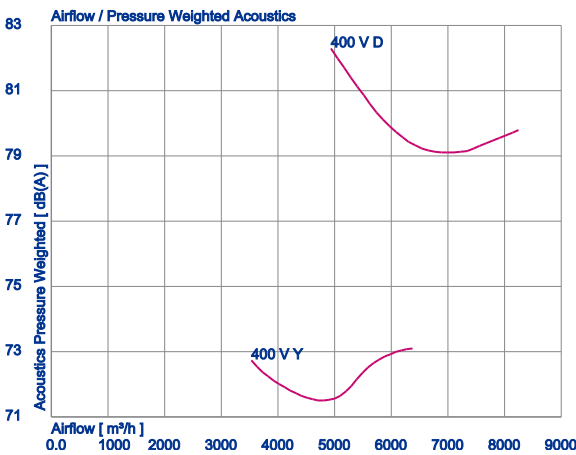
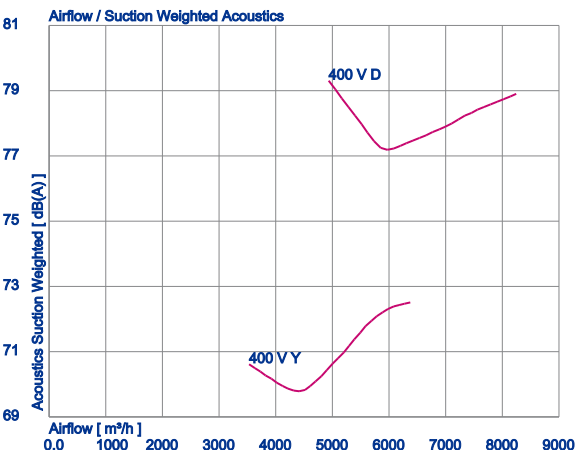
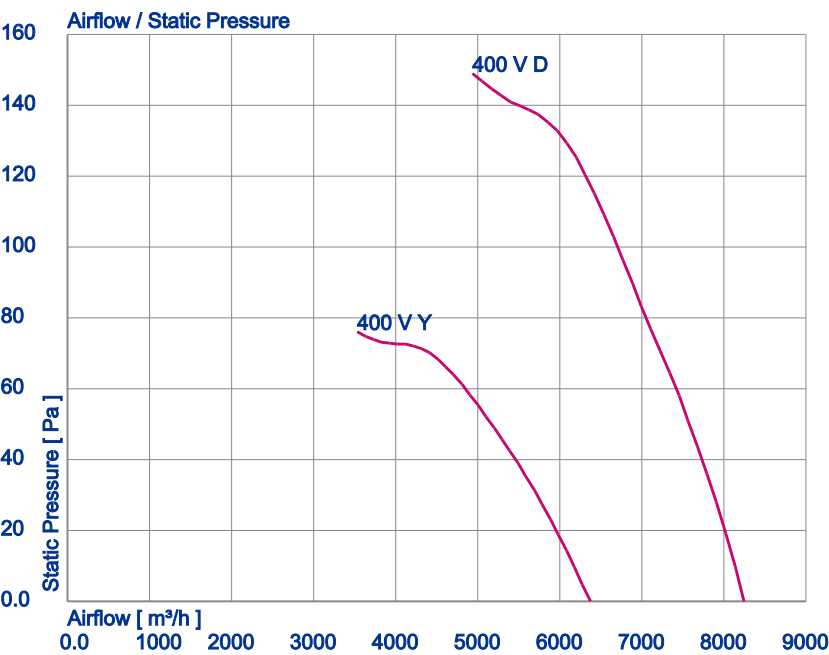
Selected product is not governed by U.S. DOE and CT20 industrial fan and blower regulations.

Full Octave band

f [Hz]	sum	63	125	250	500	1000	2000	4000	8000	f [Hz]	sum	63	125	250	500	1000	2000	4000	8000
L _{w,5}	0	0								L _{w,6}	0	0							
L _{w(A),5}	0	0								L _{w(A),6}	0	0							

3. Characteristic Curve

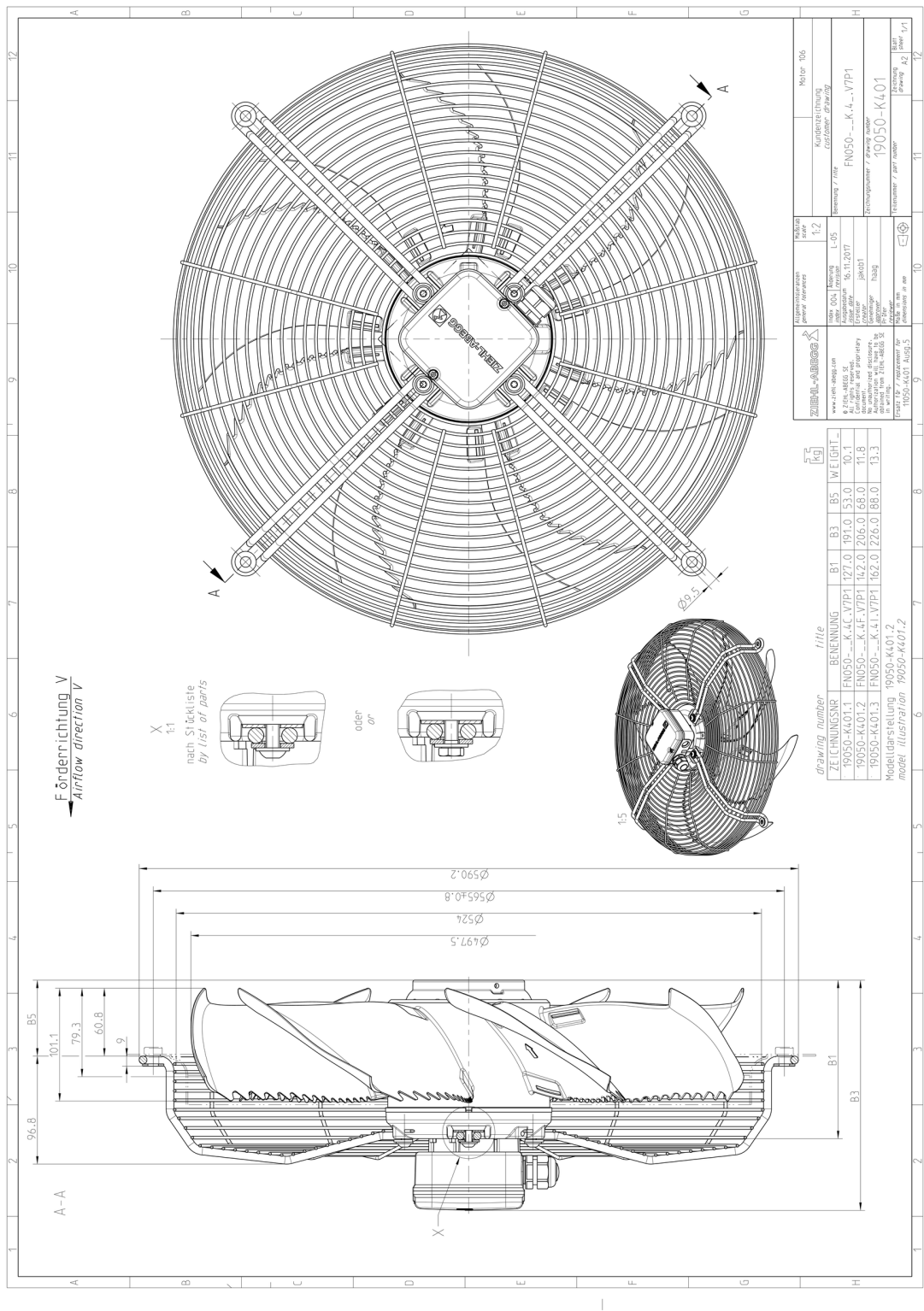
Measured in short nozzle with pressure side guard grille in air flow direction V in installation type A according to ISO5801



4. Drawing

Article number

140056



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

5. Connection Diagram

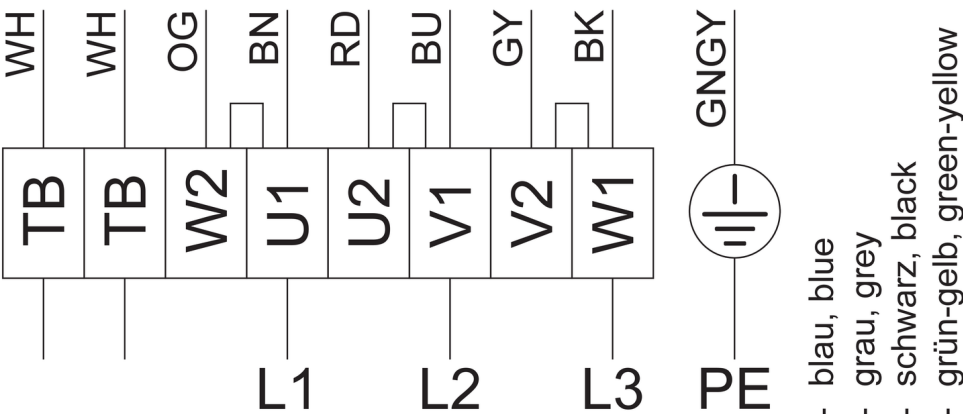
Article number 140056

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

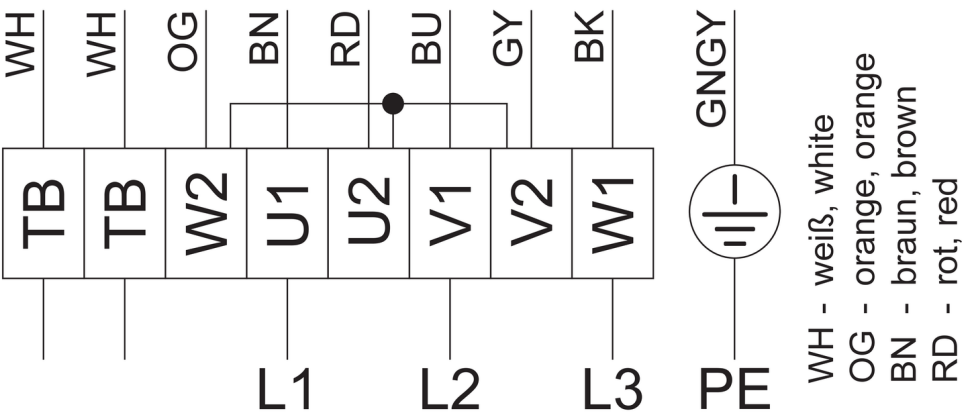
3~ motor, 2 speeds (Δ /Y switch over) with thermostatic
switch (if built in). Without bridge when using speed
change-over switch.

Hohe Drehzahl / Δ -Schaltung
High speed / Δ -connection

108XA-05



Niedere Drehzahl / Y-Schaltung
Low speed / Y-connection



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.



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.

ZIEHL-ABEGG EVENTS