

Movement by Perfection



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



Product documentation

Type
FB050-4EK.4I.V4P

Article number
201702

Product documentation

Customer

Beijing Hengrui Mechanical and Electrical Equipment
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Project

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Type

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201702



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1. Product specification

Technical data

Article number	201702
Type	FB050-4EK.4I.V4P
Designation	Axial fan with sheet blades
Rated values	1~230V±10% 50Hz P ₁ 0,64kW 2.80A ΔI=0% 1180/min 10,0uF/400V 70°C 1~230V±10% 60Hz P ₁ 0,72kW 3.20A ΔI=0% 1300/min 10,0uF/400V 60°C
Electrical connection	Terminal box K62
Min. operating temperature °C	-25
Mounting type terminal box	Mounted on Stator
Type of protection	IP54
Thermal class	THCL155
Connection diagram	1360-104XA
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
Painting mot.suspens	Motor suspension powder-coated consistency class 2
colour suspension	RAL 9005 (jet black)
Weight kg	11,30
Operating mode	Constant operation (S1)
Technical conditions of supply	DIN 24166 class 3
ErP Data	Efficiency η_{statA} : 28,1 % Efficiency grade: $N_{actual} = 36,1 / N_{target} = 36^*$ *ErP 2013Does not comply with the stipulations of the ErP regulations

2. Characteristic Curve

FB050-4EK.4I.V4P

Beschreibung / Description

Typ: FB050-4EK.4I.V4P
1~ 230V $\pm 10\%$ 50Hz P1 0,84kW
2,8A DI=0% 1180/MIN 10uF/400V 70°C
1~ 230V $\pm 10\%$ 60Hz P1 0,72kW
3,2A DI=0% 1300/MIN 10uF/400V 60°C
IP54 THCL 155

Assembling:

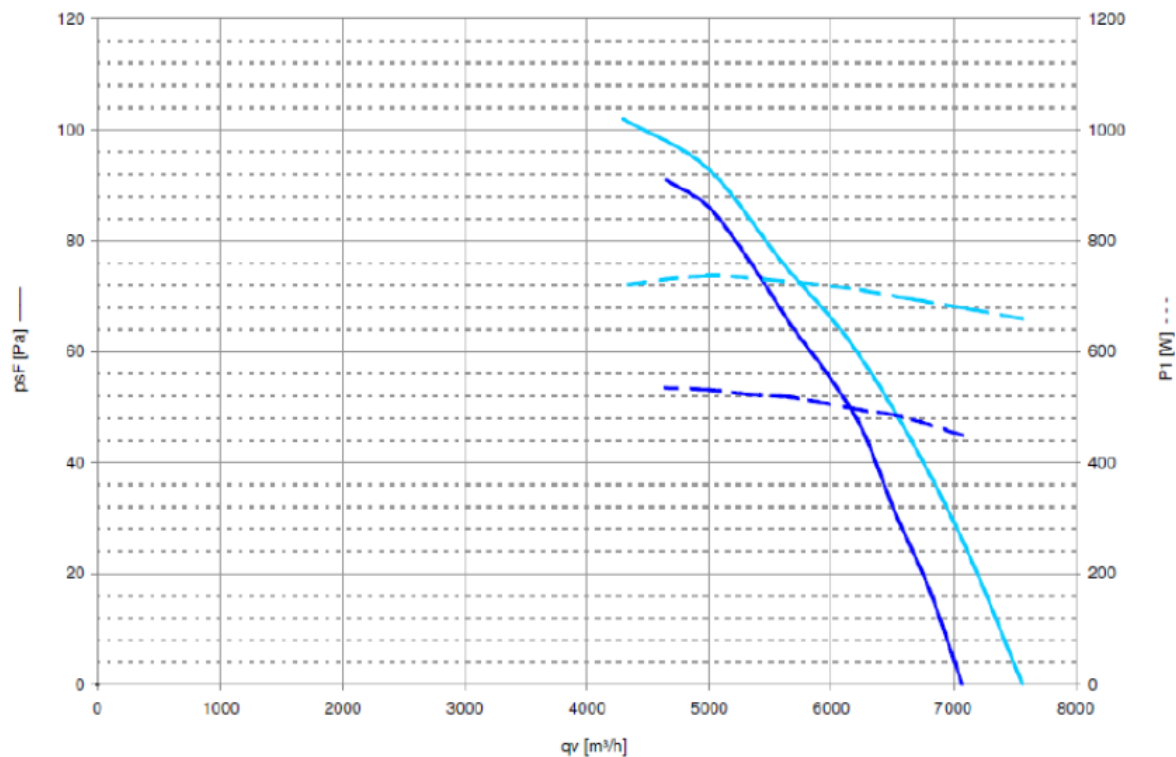
Fan measured in short bell mouth without guard grille.

Legende / Legend

- A) 1~ 230V 50Hz L 10uF [ID 7805]
- B) 1~ 230V 60Hz L 10uF [ID 7798]

Gemessen mit üblichen Toleranzen / Measured with normal tolerances

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



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

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

Zeichn.-Nr.	Baufr.	B	B2	B3	W
12050-KA03.1	106-35	122.5	41.5	49.5	25°
12050-KA03.2	106-50	141	41.5	67.5	25°
12050-KA03.3	106-35	122.5	45.5	49.5	30°
12050-KA03.4	106-50	141	45.5	67.5	30°
12050-KA03.5	106-70	161	45.5	86.0	30°
12050-KA03.6	106-50	141	53.5	67.5	35°
12050-KA03.7	106-70	161	53.5	86.0	35°
12050-KA03.8	106-70	161	41.5	86.0	25°
12050-KA03.9	106-35	122.5	53.5	49.5	35°

ZIEHL-ABEGG

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Scale: 1:1

Baufr.: 106

FB050-K...V4..K62

12050-KA03

Shown drawing is just to show the dimensions of the fan.

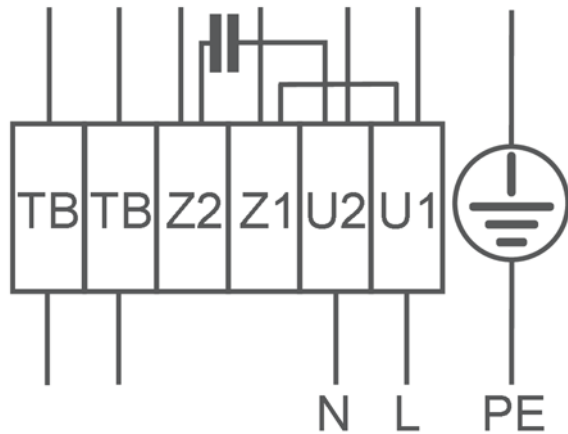
4. Connection diagram

1360-104XA

1~Motor with capacitor and thermostatic switch (if built in).

U1 brown
U2 blue
Z1 black
Z2 orange
TB white

Clockwise rotation



EU-Declaration of conformity



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](#).