CN

Movement by Perfection

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

Product documentation

Type
FB063-6EK.4I.V4P

Article number
101680

ZIEHL-ABEGG

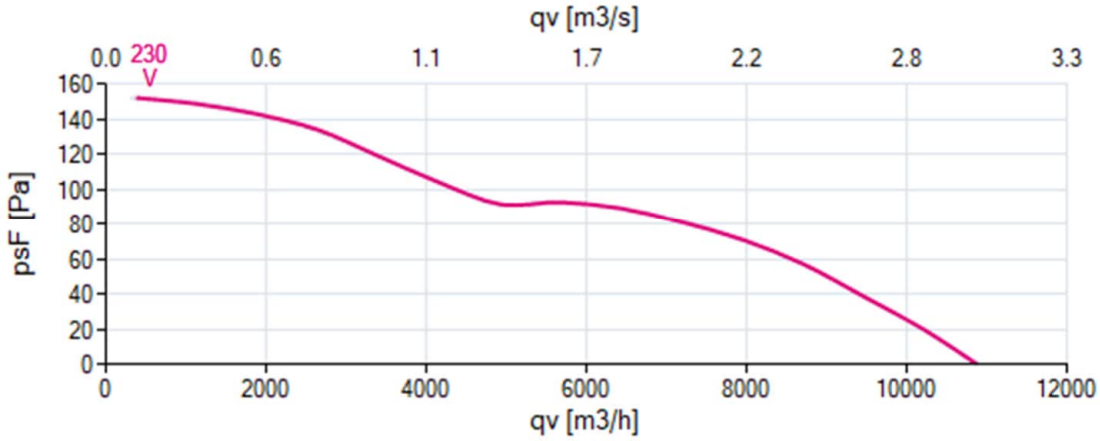
2. Product specification - Technical data

Article number	101680	
Type	FB063-6EK.4I.V4P	
Designation	Axial fan with sheet blades	
Rated values	1~230V ±10% 50Hz P_1 0.63kW 3.0A ΔI=0% 860/min 12.0uF/400V 40°C	
Electrical connection	Terminal box K62	
ErP Data	Efficiency η_{statA}: 28.3 % Efficiency grade: N_{actual} = 36.1 / N_{target} = 36* *ErP 2013does not fulfill current requirements of the ErP directive	
Type of protection	IP54	
Thermal class	THCL155	
Mounting type terminal box	Mounted on Stator	
Connection diagram	1360-104XA	
Rating plate	1x fixed	
Fitting position	H/Vu/Vo	
Motor protection	thermal contact	
Impregnation	Moisture and hot climate protection	
Condensation	Condensation water holes in stator/rotor open	
Quality of bearings	ball bearing with long-time lubrication	
Material Rotor	Aluminium	
Painting rotor	Rotor unpainted	
painting stator	Stator unpainted	
Material blades	Aluminium	
Painting blades	Blades unpainted	
Painting mot.suspens	Motor suspension powder-coated resistance class 2 (L-TI-0585)	
colour suspension	RAL 9005 (jet black)	
Operating manual	L-BAL-001	www.ziehl-abegg.com/bal
Weight	12.80	kg
Min. operating temperature °C	-25°C	

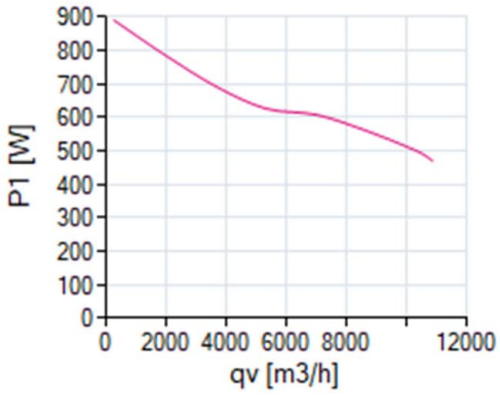
6. Characteristic Curve

FB063-6EK.4I.V4P
1~ 230V 50Hz measurement density 1,16 kg/m³

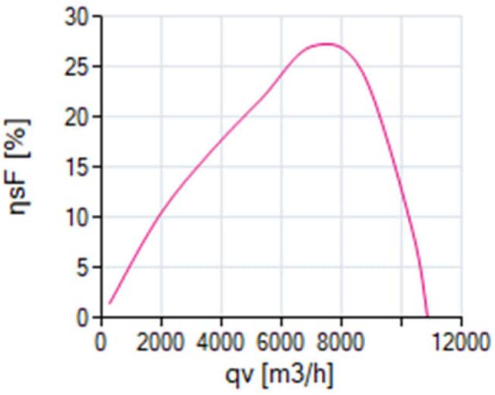
Air performance



Power input



Efficiency



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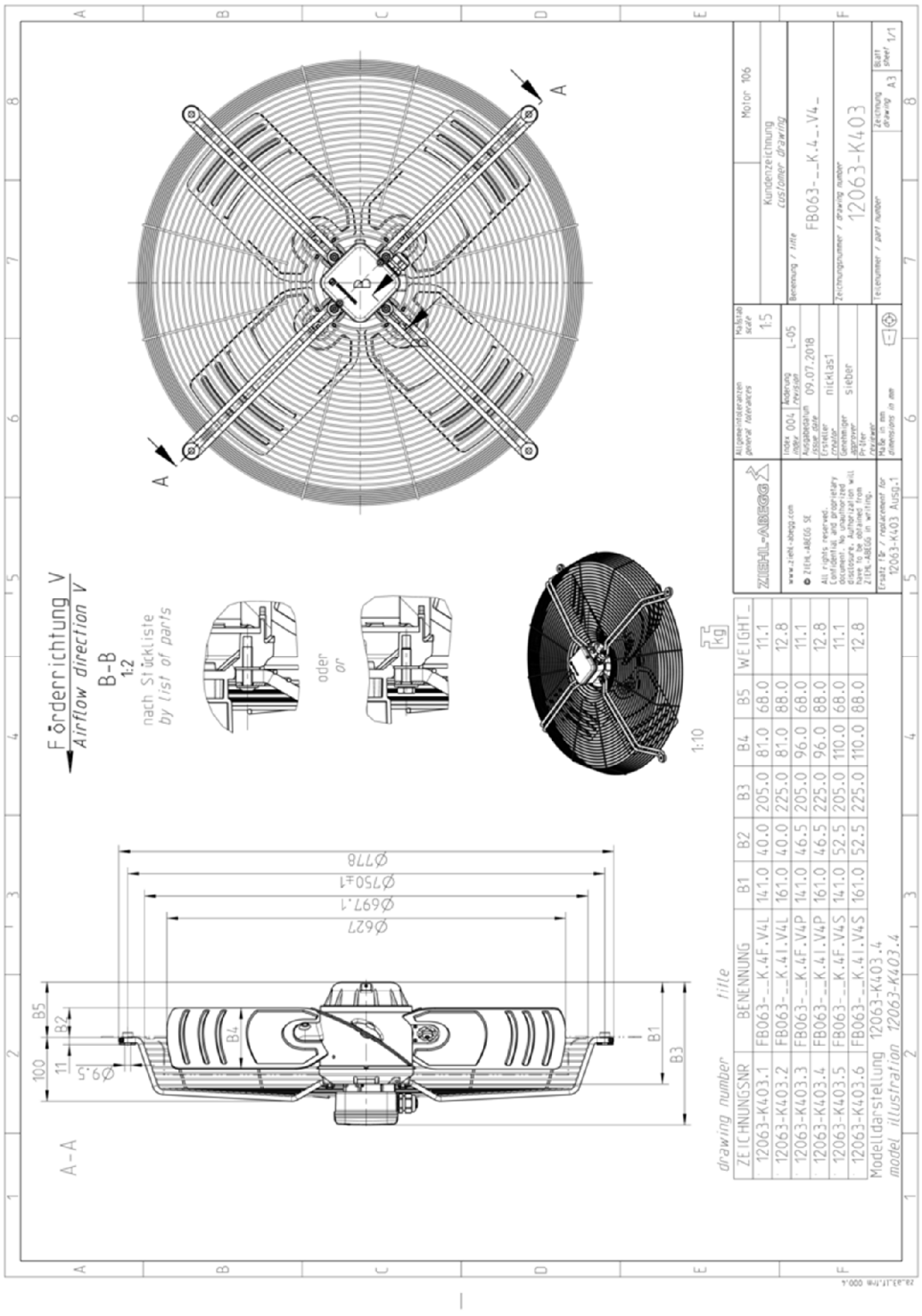
Please note: It's not allowed to use this fan in the stall area!*

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

7. Drawing



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

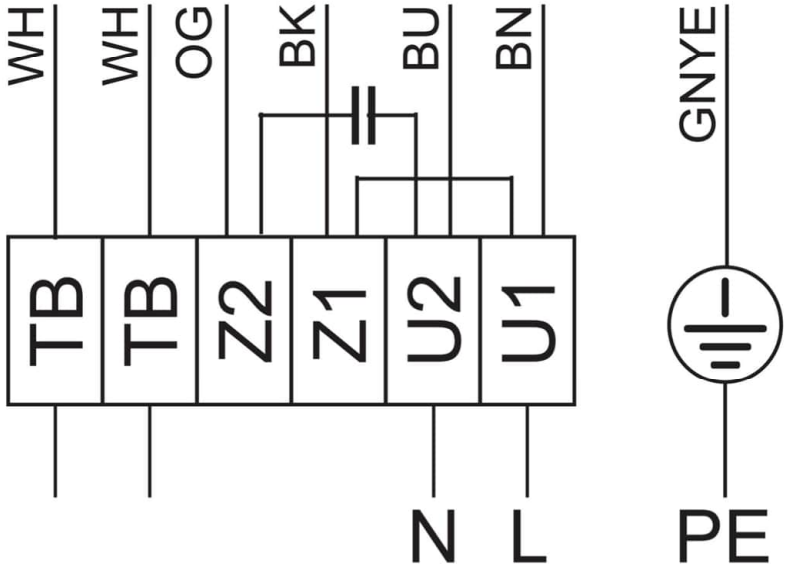
8. Connection diagram

1~ Motor mit Kondensator und Thermostatschalter (falls eingebaut).

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

104XA-05

Rechtslauf
Clockwise rotation



WH	-	weiß, white
OG	-	orange, orange
BK	-	schwarz, black
BU	-	blau, blue
BN	-	braun, brown
GNYE	-	grün-gelb, green-yellow

9. Aerodynamics and Acoustics

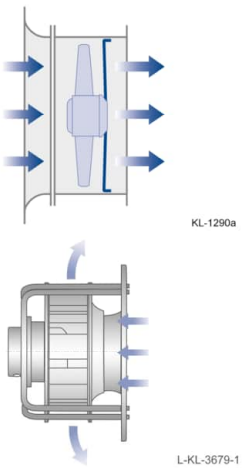
Measurement method

The characteristic map display shows the pressure increase Δp_{sF} in Pa as a function of the volume flow rate q_V in m^3/h.

Technical conditions of supply

The specified performance data meet the respective requirements for accuracy
- AN2 for centrifugal impellers without motor
- AN3 for centrifugal fans with standard motors
- AN2 for centrifugal impellers with ECblue motors (except EC055)
- AN3 for centrifugal impellers with ECblue motor EC055 (see type key)
- AN3 for axial fans with ECblue motors
- AN4 for axial fans with AC external rotor motors

in line with **ISO 13348** and apply to the rated data and air performance curves at the rated voltage. The continuous line in the characteristic curve represents the optimum reliable operating range for fans.



Installation type A according to ISO 5801

Fan test bench

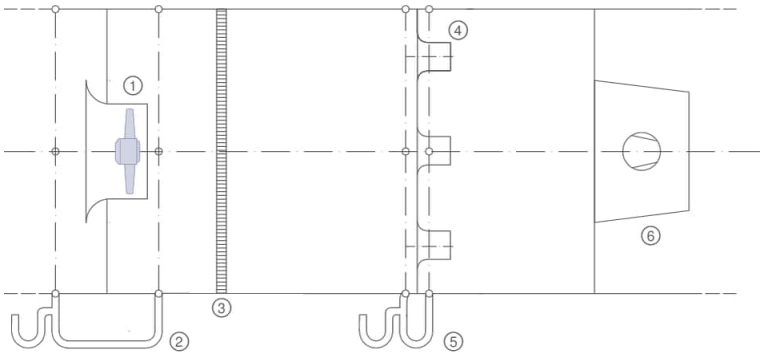
The fan characteristic curves are determined on a combined ventilation and sound test bench.
The characteristic curves are measured in compliance with **DIN EN ISO 5801** and **AMCA 210-99**. The sound power levels are measured in compliance with **DIN EN ISO 3745** and **ISO 13347-3** using the enveloping surface measuring method.

The figure below shows an example of the measuring setup. The fan is installed in the measuring chamber at free inlet and free exhaust (installation type A as per **DIN EN ISO 5801** or **AMCA 210-99**).

Technology Centre (InVent)

Air density

The air density and humidity are conditioned during the measurement using heat exchangers and kept largely constant. The characteristic curves shown refer to the measuring density. The mean measuring density is 1.16 kg/m³.



① Test fan
② p_{fs}
③ Flow straightener
④ Nozzles
⑤ Δp Differential pressure
⑥ Auxiliary fan