Movement by Perfection



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



Product documentation

Type
FB050-VDK.4I.V4S

Article number
107557

ZIEHL-ABEGG

1. Product specification - Technical data

Article number	107557
Type	FB050-VDK.4I.V4S
Designation	Axial fan with sheet blades
Rated values	3~400V ±10% D/Y 50Hz P_1 0.82/0.55kW 1.5/0.95A ΔI=10% 1330/1030/min COSY 0,79 50°C 3~400V ±10% D/Y 50Hz P_1 0.72/0.50kW 1.3/0.88A ΔI=15% 1340/980/min COSY 0,80 60°C test
Electrical connection	Terminal box K62
ErP Data	Efficiency η_{statA}: 29.9 % Efficiency grade: N_{actual} = 37.0 / N_{target} = 36* *ErP 2013* Does not comply with the stipulations of the ErP regulations
Type of protection	IP54
Thermal class	THCL155
Mounting type terminal box	Mounted on Stator
Min. operating temperature	-40°C***
Connection diagram	1360-108XA
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
Material blades	Aluminium
Painting mot.suspens	Motor suspension powder-coated resistance class 2 (L-TI-0585)
colour suspension	RAL 9005 (jet black)

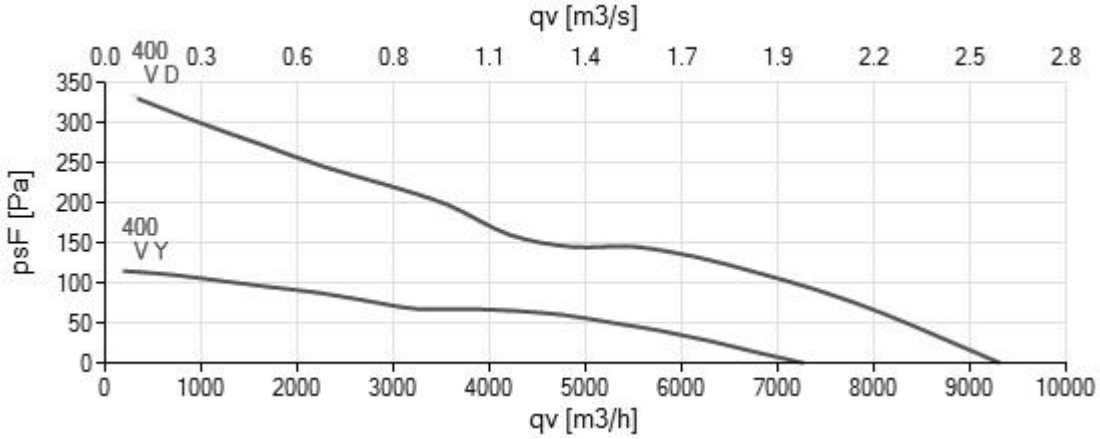
*** Operation mode:
Continuous operation with occasional starts (S1) according to DIN EN 60034-1:2011-02.
Occasional starting between -40 °C and -25 °C is permissible. Continuous operation below -25 °C only with special bearings for refrigeration applications on request.
Permissible minimum and maximum ambient temperature for operation:
Please refer to the technical documentation of the product for the minimum and maximum ambient temperature valid for the respective fan. Operation below -25 °C as well as partial load operation for refrigeration applications is only possible with special bearings for refrigeration applications on request. If special bearings for refrigeration applications are installed in the fan, please observe the permissible maximum temperatures in the technical documentation of the product.

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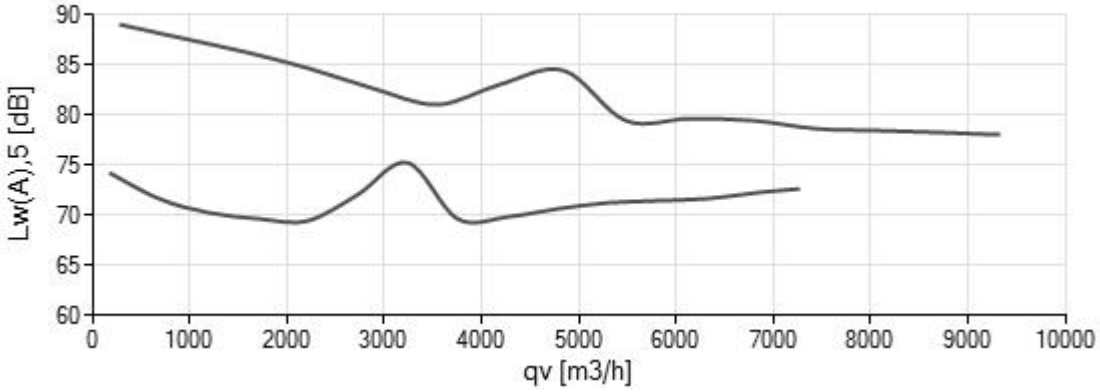
2. Characteristic Curve

FB050-VDK.4I.V4S	Measured in full nozzle without guard grille in air flow direction V in installation type A according to ISO5801
3~ 400V 50Hz D	measurement density 1,16 kg/m³

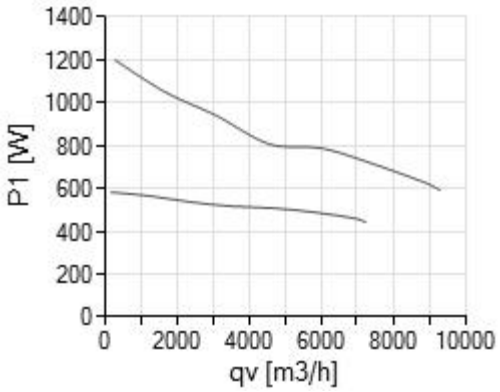
Air performance



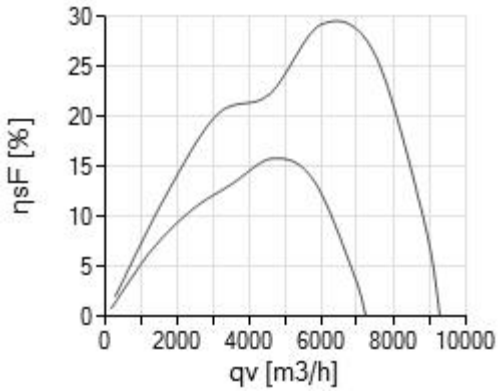
Acoustics



Power input



Efficiency

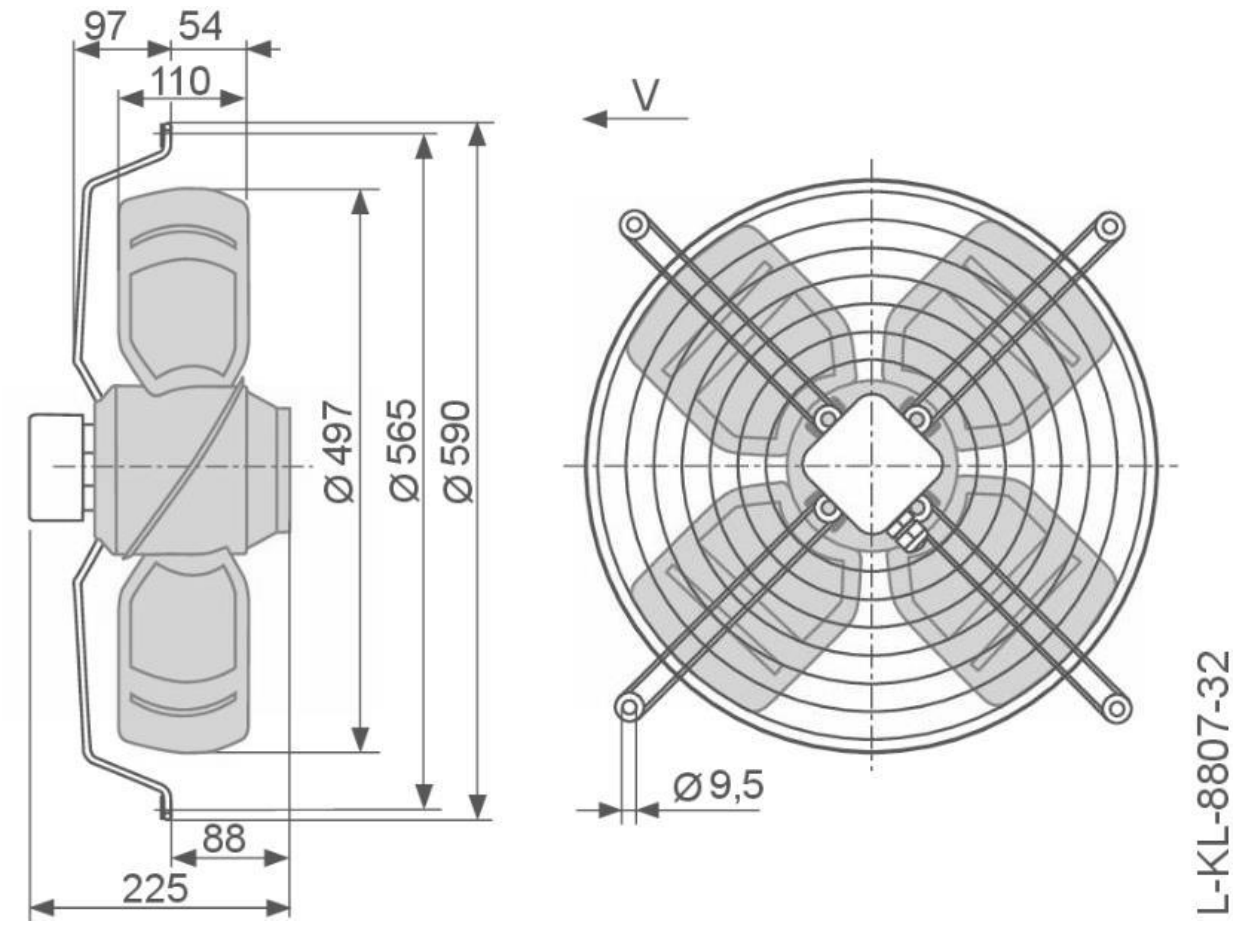


Please note: It’s not allowed to use this fan in the stall area!*

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

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3. Drawing



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

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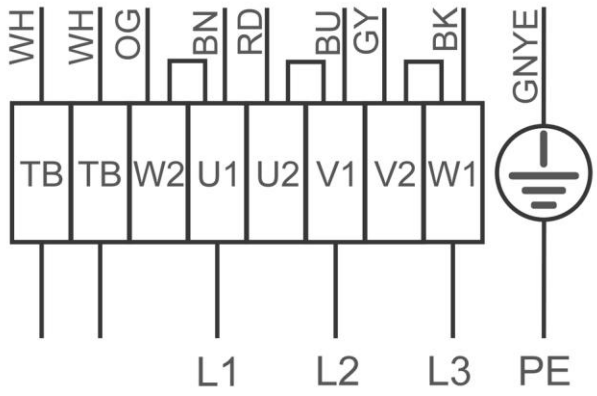
4. Connection diagram

wiring diagram: 1360-108XA

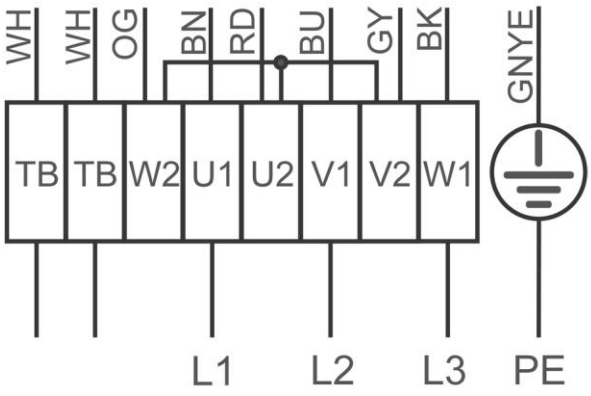
3~ motor, 2 speeds (Δ/Y switch over) with thermostatic switch (if built in).Without bridge when using speed change-overswitch.

BN	brown
BU	blue
BK	black
RD	red
GY	grey
OG	orange
WH	white
GNYE	green-yellow

High speed/D-connection



Low speed/Y-connection



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

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Everything from a single source – perfectly matched for optimal performance

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