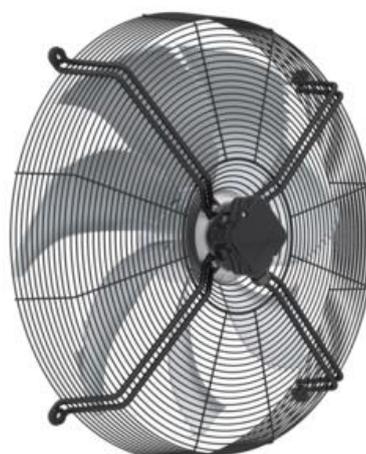


Bewegung durch Perfektion



Die Königsklasse in Lufttechnik, Regeltechnik und Antriebstechnik



Product documentation

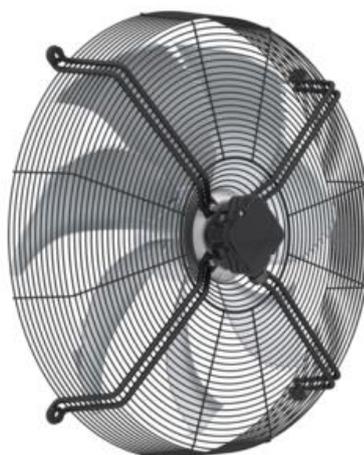
Type
FN063-VDK.6N.V7P7

Article number
169699

Product documentation

Type
FN063-VDK.6N.V7P7

Article number
169699



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1. Product specification - Technical data

| | |
|----------------------------|--|
| Article number | 169699 |
| Type | FN063-VDK.6N.V7P7 |
| Designation | Axial fan with sickle blades |
| Rated values | 3~400V ±10% D/Y 50Hz P ₁ 2.60/1.75kW 5.0/3.0A ΔI=5% 1330/1050/min COSY 0,77 60°C |
| Electrical connection | Terminal box K62 |
| ErP Data | Efficiency η_{statA} : 36.4 % Efficiency grade: N _{actual} = 40.2 / N _{target} = 40* *ErP 2015 |
| 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 |
| Painting rotor | unpainted |
| Material blades | Aluminium |
| Painting impeller | unpainted |
| Guard grille type | ring grill |
| Painting mot.suspens | Motor suspension powder-coated consistency class 2 |
| colour suspension | RAL 9005 (jet black) |
| Weight | 31.10kg |

*** 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.

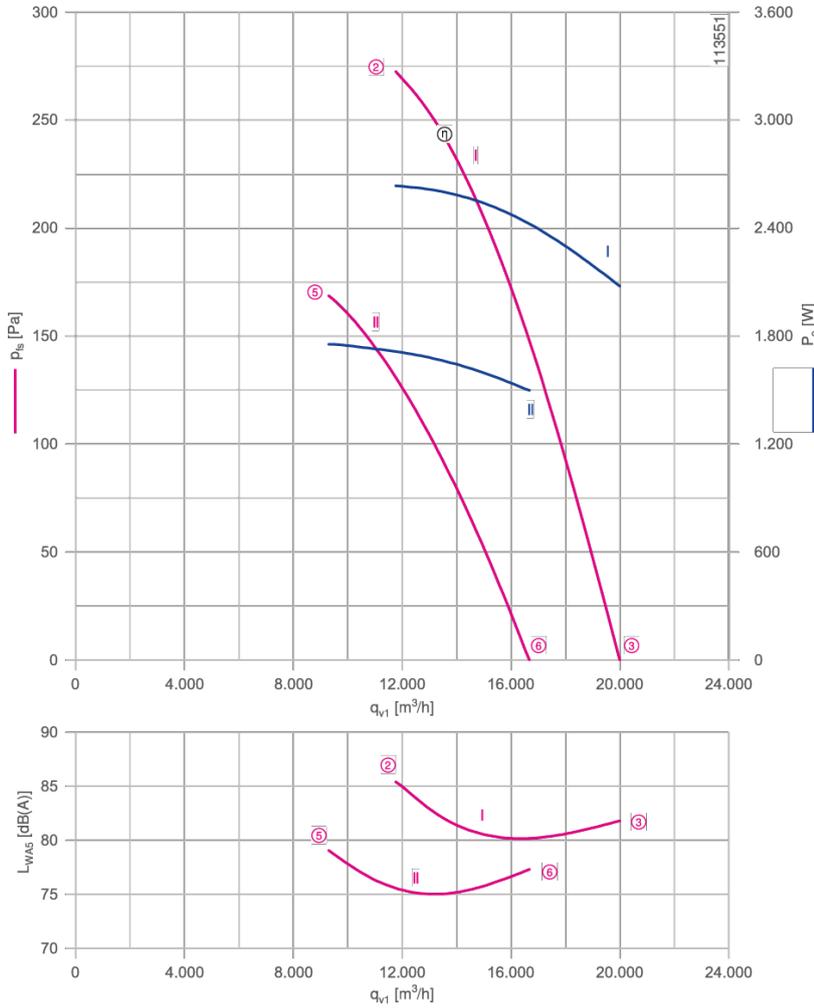
Permissible minimum and maximum ambient temperature for operation:

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.

2. Characteristic curve

Frequency: 50 Hz

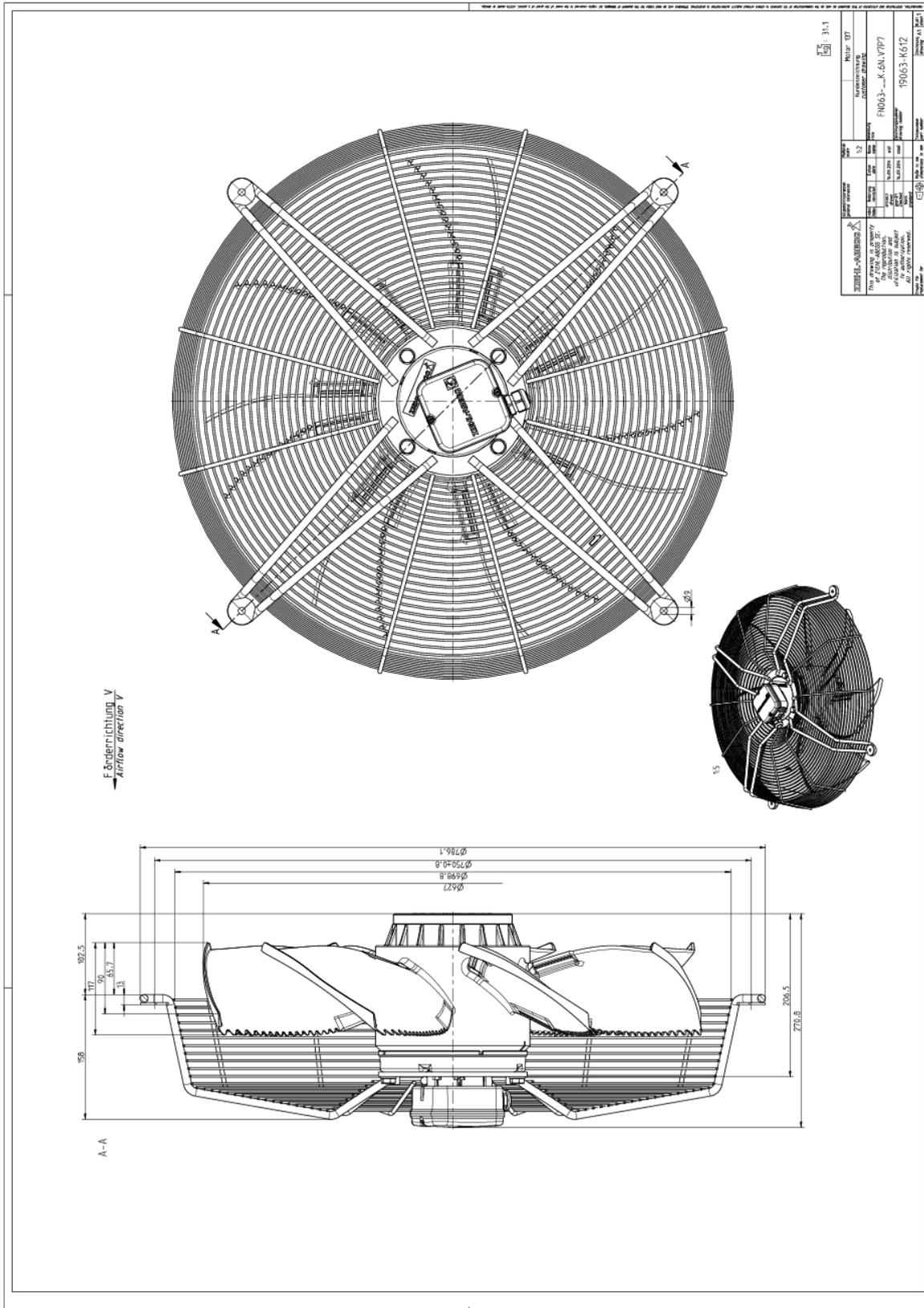
Measured in full nozzle without guard grille in installation type A according to ISO 5801.



I = 3~400 V D, II = 3~400 V Y

| Operating point | | ② | ③ | ⑤ | ⑥ |
|--------------------------------|------------|----------|----------|------|------|
| Characteristic curve | | I | I | II | II |
| Connection | | Δ | Δ | Y | Y |
| Voltage | V | 400 | 400 | 400 | 400 |
| Input power | W | 2600 | 2100 | 1750 | 1500 |
| Current | A | 5.00 | 4.20 | 3.00 | 2.50 |
| Speed | min^{-1} | 1330 | 1380 | 1050 | 1140 |
| Suction side sound power level | dB(A) | 86 | 82 | 79 | 77 |

3. Drawing



Dimensions in mm

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

4. Connection diagram

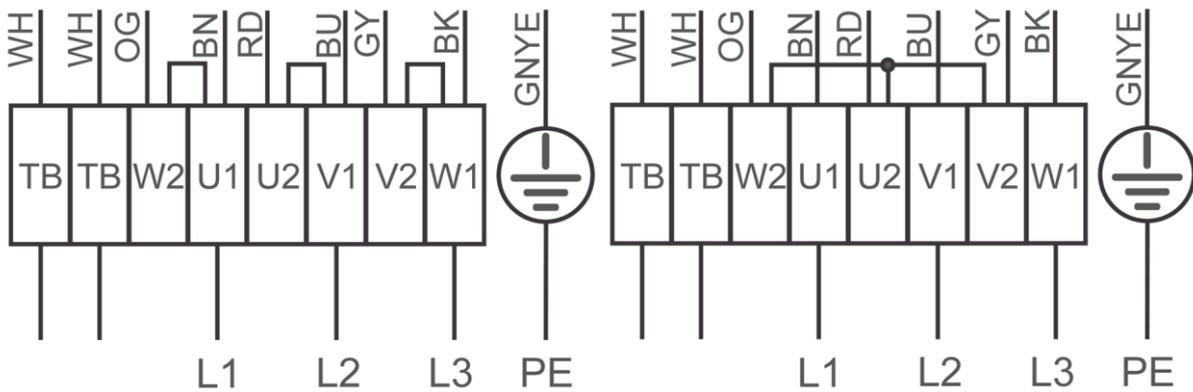
1360-108XA

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

- 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



EC Declaration of Incorporation

as defined by the EC Machinery Directive 2006/42/EC, Annex II B

The design of the incomplete machine:

- Axial fan FA..., FB..., FC..., FE..., FF..., FG..., FS..., FT..., FH..., FL..., FN..., FV..., DN..., VR..., VN..., ZC..., ZF..., ZG..., ZN...
- Centrifugal fan RA..., RD..., RE..., RF..., RG..., RH..., RK..., RM..., RR..., RZ..., GR..., ER..., WR...
- Cross-flow fan QK..., QR..., QT..., QD..., QG...

Motor type:

- Induction internal or external rotor motor (also with integrated frequency inverter)
- Electronically commutated internal or external rotor motor (also with integrated EC controller)

complies with the requirements in Appendix I, Articles 1.1.2, 1.1.5, 1.4.1, 1.5.1 in EG Machinery Directive 2006/42/EG.

Manufacturer

ZIEHL-ABEGG SE
Heinz-Ziehl-Strasse
D-74653 Künzelsau

The following harmonised standards have been used:

| | |
|-------------------------|--|
| EN 60204-1:2006+A1:2009 | Safety of machinery; electrical equipment of machines; Part 1: General requirements |
| EN ISO 12100:2010 | Safety of machinery - General principles for design - Risk assessment and risk reduction |
| EN ISO 13857:2008 | Safety of machinery; safety distances to prevent danger zones being reached by the upper limbs |
| Note: | The maintenance of the EN ISO 13857:2008 relates only to the installed accidental contact protection, provided that it is part of the scope of delivery. |

The specific technical documentation in accordance with Appendix VII B has been written and is available in its entirety.

The person authorised for compiling the specific technical documentation is: Dr. W. Angelis, address see above. The specific documentation will be transmitted to the official authorities on justified request. The transmission can be electronic, on data carriers or on paper. All industrial property rights remain with the above-mentioned manufacturer.

It is prohibited to commission this incomplete machine until it has been secured that the machine into which it was incorporated complies with the stipulations of the EC Machinery Directive.

Künzelsau, 12.12.2017

Dr. W. Angelis - Technical Director Ventilation Division

Dr. W. Angelis



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