

Movement by Perfection



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



[Product documentation](#)

Type  
**FN080-SDK.6N.V7**

Article number  
**165602**

## 2. Product specification - Technical data

<b>Article number</b>	165602
<b>Type</b>	FN080-SDK.6N.V7
<b>Designation</b>	Axial fan with sickle blades
<b>Rated values</b>	3~400V ±10% D/Y 50Hz P <sub>1</sub> 1.60/1.0kW 3.6/1.8A ΔI=0% 870/670/min COSY 0,66 70°C 3~400V±10% D/Y 60Hz60Hz P <sub>1</sub> 2.30/1.15kW 4.1/2.0A 930/640/min COSY 0,78 60°C 3~460V±10% D/Y 60Hz P <sub>1</sub> 2.50/1.4kW 4.20/ 2.20A990/710/min COSY 0,75 55°C
<b>Electrical connection</b>	Terminal box K62
<b>ErP Data</b>	Measurement category ErP: A Air flow q <sub>v</sub> on Eta opt: 15988 m <sup>3</sup> /h Pressure increase p <sub>fs</sub> on Eta opt: 130 Pa Input power P <sub>1</sub> on Eta opt: 1650 W Efficiency η <sub>statA</sub> : 36.0 % Efficiency grade: N <sub>actual</sub> = 40.9 / N <sub>target</sub> = 40* *ErP 2015
<b>Type of protection</b>	IP54
<b>Thermal class</b>	THCL155
<b>Mounting type terminal box</b>	Mounted on Stator
<b>Connection diagram</b>	1360-108XA
<b>Rating plate</b>	1x fixed
<b>Fitting position</b>	H/Vu/Vo
<b>Motor protection</b>	thermal contact
<b>Impregnation</b>	Moisture and hot climate protection
<b>Condensation</b>	Condensation water holes in stator/rotor open
<b>Quality of bearings</b>	ball bearing with long-time lubrication
<b>Material Rotor</b>	Aluminium
<b>Painting rotor</b>	Rotor unpainted
<b>painting stator</b>	Stator unpainted
<b>Material blades</b>	Aluminium
<b>Painting blades</b>	Blades unpainted
<b>Other</b>	All connecting elements in stainless steel.
<b>Other</b>	All connecting elements secured with Loctite.
<b>Painting mot.suspens</b>	Motor suspension powder-coated resistance class 2 (L-TI-0585)
<b>colour suspension</b>	RAL 9005 (jet black)
<b>Special mounted part</b>	Design without finger protection.
<b>Operating manual</b>	L-BAL-001 <a href="http://www.ziehl-abegg.com/bal">www.ziehl-abegg.com/bal</a>
<b>Weight</b>	40.10 kg

\*\*\* 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.

### 6. Characteristic Curve

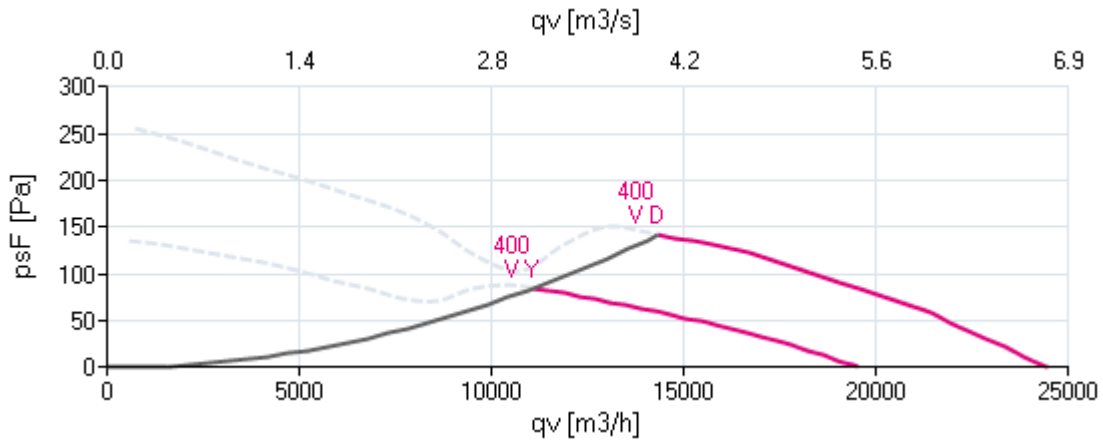
FN080-SDK.6N.V7

Measured in full nozzle without guard grille in air flow direction V in installation type A according to ISO5801

3~ 400V 50Hz Y

measurement density 1,16 kg/m<sup>3</sup>

#### Air performance

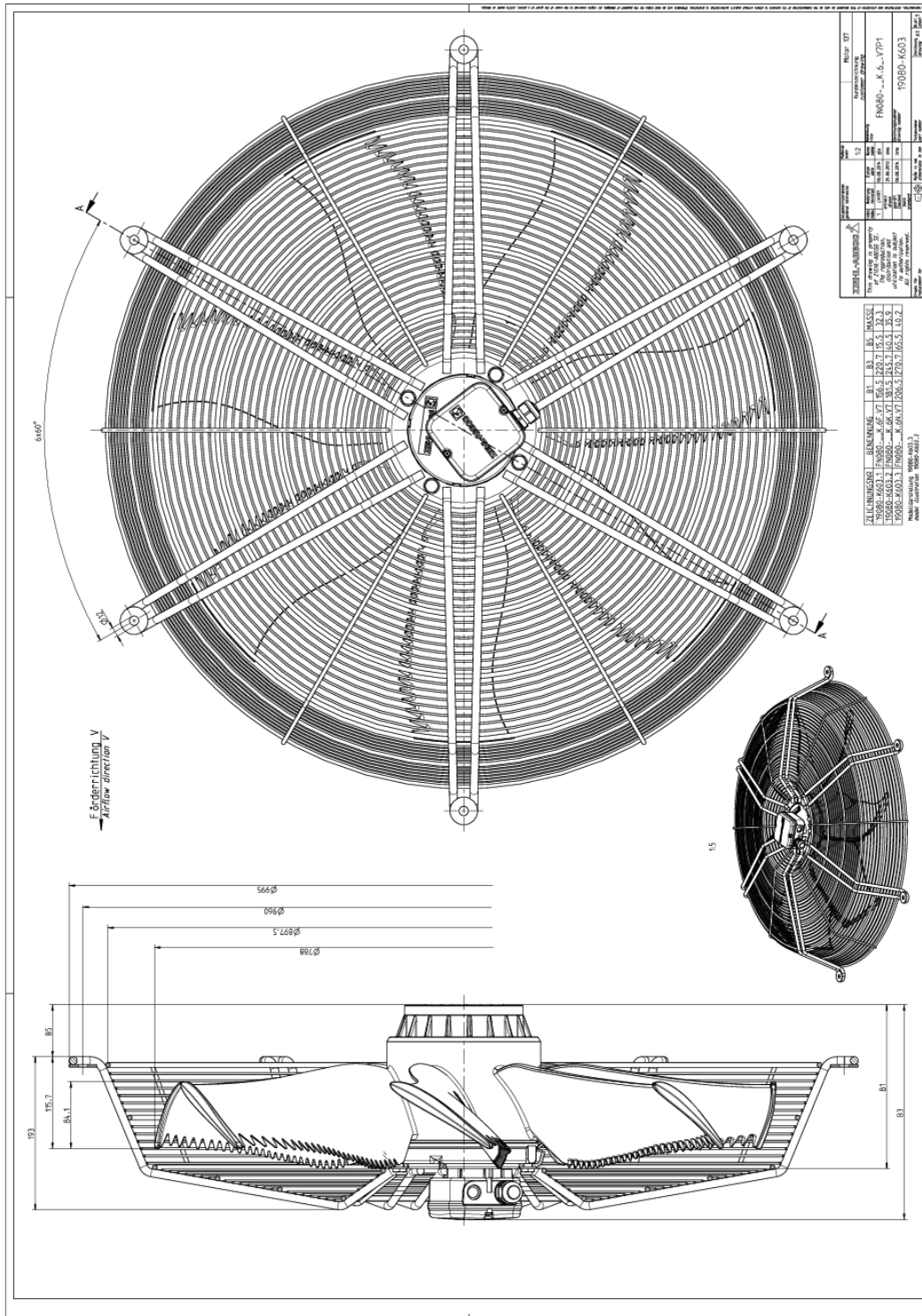


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Please note: It's not allowed to use this fan in the stall area!\*

\*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

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

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

