



Movement by Perfection



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



[Product documentation](#)

Type
DN90V-4DF.K7.29.G9_15kW

The Royal League

Die Königsklasse

Product specification

Technical data

Article number

-

Type

DN90V-4DF.K7.29.G9

Designation

Medium pressure axial fan

Rated values

3~400/690V D/Y 50Hz; 15kW
28,70/16,64A; 1465/min

Electrical connection

Terminal box on motor

Approx. weight kg

254,00kg

min. operating temp.

-20 ~ +50°C

Type of protection

IP55

Thermal class

Thermal class 155

Fitting position

Fitting position horizontal / vertical

Number of blades

9

Corrosion protection

Hot Dip Galvanized Steel

Motor protection

Motor protection through PTC

Balancing quality

Balancing quality G6,3

Material blades

ZAmid

Painting impeller

Without

Colour blades

Blue

certificated

GOST certified, ...

Painting housing

Unpainted casing

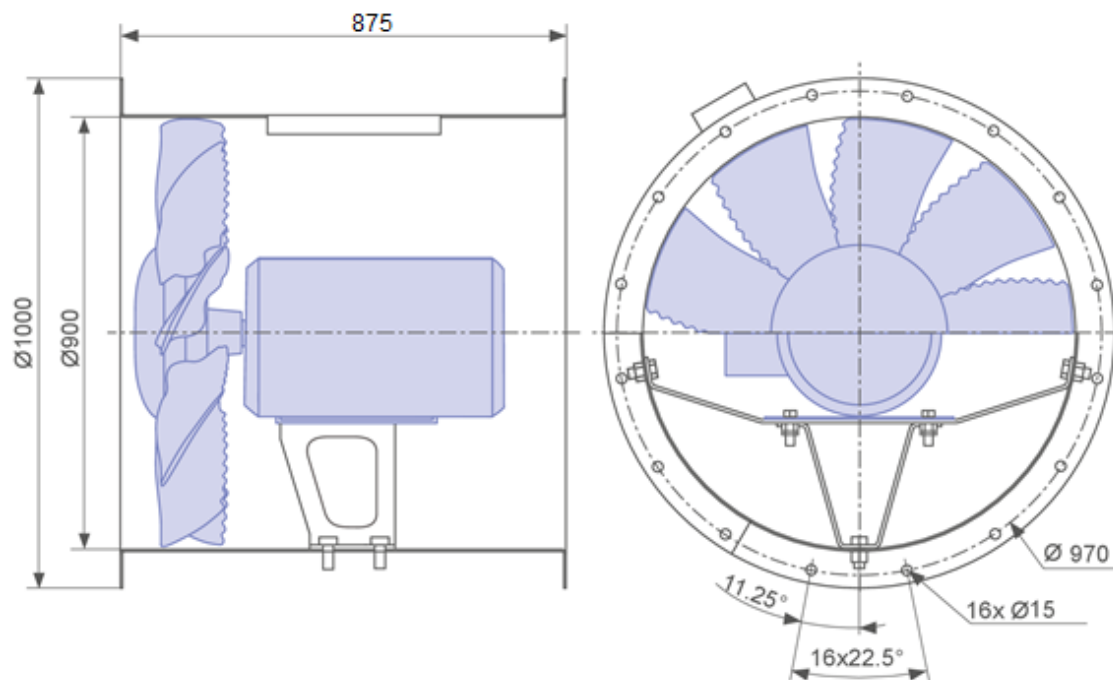
ErP Data

Efficiency η_{statA} : 44,1 %

Efficiency grade: N = 43,8 (actual) / N = 40 (target)*

*ErP 2015

Drawing



Dimensions in mm

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

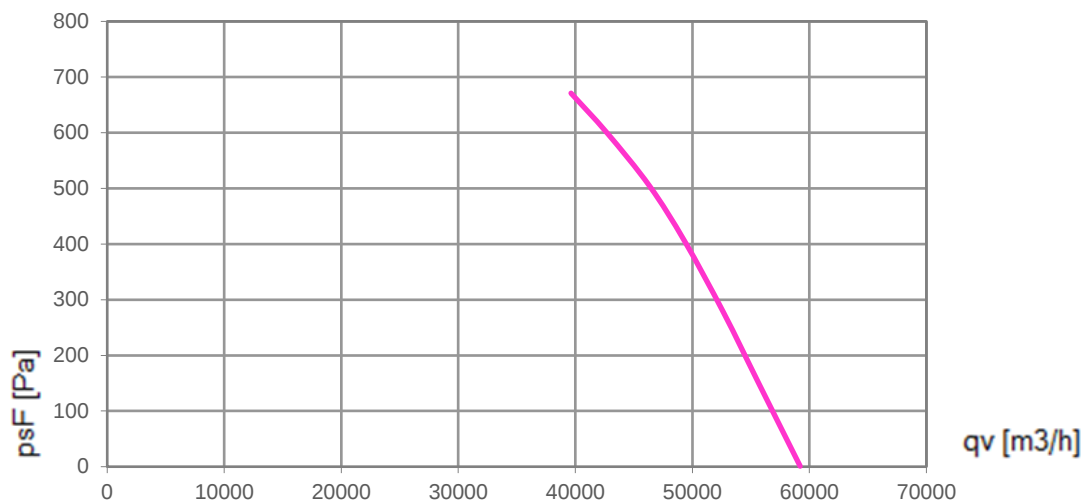


The Royal League

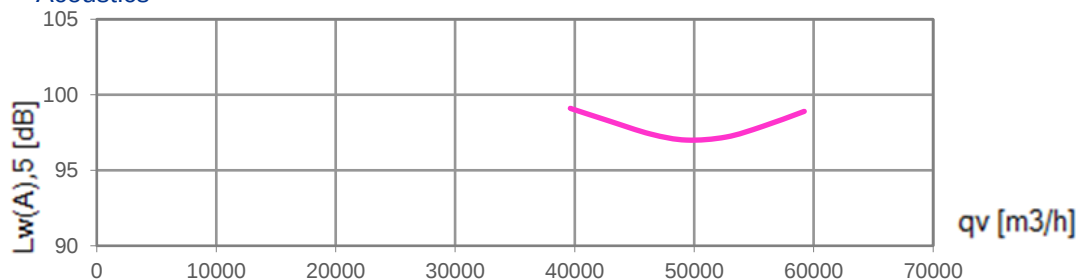
Die Königsklasse

Characteristic curve

Air performance



Acoustics



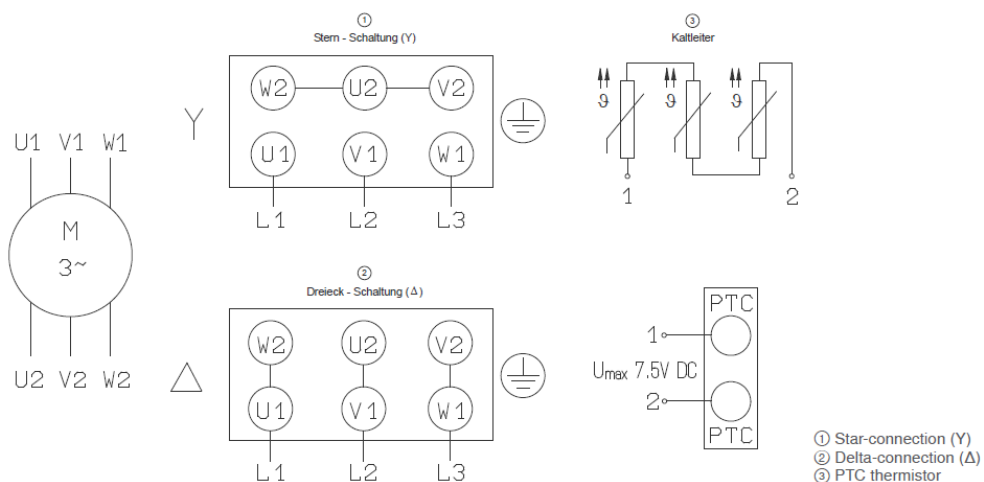
Measured in long casing with inlet bell mouth without guard grille in installation type A air flow impeller/motor according to ISO 5801.

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

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

Measurements based on Motors with efficiency class IE3

Connection diagram



Reversible rotation by interchanging phases

Rated voltage:

Motor size ≤ 90: 230 V Δ / 400 V Y

Motor size ≥ 100: 400 V Δ / 690 V Y



Optional accessories

Frequency inverter FXDM32A 308078

400V 32A 15kW IP54 386x525x283



Setting of the desired speed through device or by external default, e.g. 0~10V



Connecting pressure sensors, e.g. 0~30 bar, 0~50 bar



Connection of thermistors e.g. sensors type TF, sensors type MTG



Connecting differential pressure sensors e.g. type MPG 0~6000Pa



Connecting air velocity sensors e.g. type MAL, measuring range 0~1 m/s, 0~10 m/s

Connecting additional sensors e.g. CO₂, sensors signal 0~10V / 0~20mA / 4~20 mA

Motor protection

MSR220K – T2211775 (with reset) – 2U, AC 220-240V



Electronic reclosing lock
Integrated RESET-button
Link for external RESET
Automatic RESET at voltage recovery
LEDs for power ON (green) and alarm (red) in reset – button
UL Recognized Component
Option: other supply-voltages

Accessories:

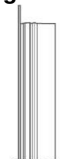
Inlet ring – 00500365



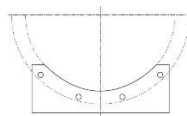
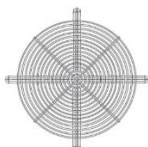
Flexible connector – 00500446



Mating flange – 00500349



Mounting feet – 00500379

Guard grille (Mesh 10mm) on the suction side
– 00500149Guard grille (Mesh 20mm) on the engine side
– 00500548