

Movement by Perfection



The Royal League in ventilation, control and drive technology



Product documentation

Type
FN080-SDQ.6N.V7P2

Article number
141678

Product documentation

Customer

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Project

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Auslaufteil! Ersatz siehe Alternativteile.

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1. Product specification

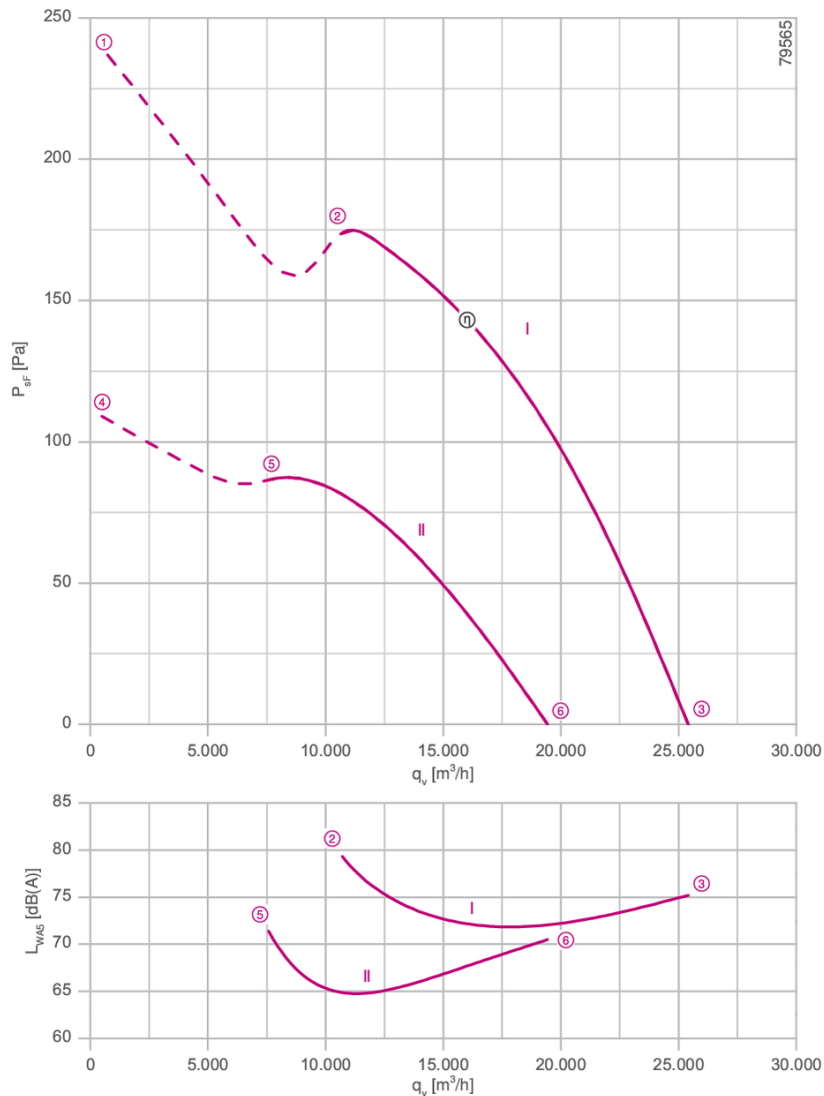
Technical data

Article number	141678
Type	FN080-SDQ.6N.V7P2
Designation	Axial fan with sickle blades
Rated values	3~400V±10% D/Y 50Hz P ₁ 2,10/1,15kW 4.20/ 2.20A ΔI=0% 860/ 620/min COSY 0,72 60°C
Electrical connection	Terminal box K62
Min. operating temperature °C	-40
Mounting type terminal box	Mounted on Stator
Type of protection	IP54
Thermal class	THCL155
Connection diagram	1360-108XA
Rating plate	1x fixed
Fitting position	H/Vu/Vo
Motor protection	thermal contact
Impregnation	Moisture and hot climate protection
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
Other	All connecting elements in stainless steel.
Painting housing	Bell mouth powder-coated consistency class 2
Colour housing	RAL 9005 (jet black)
Painting mot.suspens	Motor suspension powder-coated consistency class 2
colour suspension	RAL 9005 (jet black)
Weight kg	45,30
ErP Data	Efficiency η_{statA} : 33,1 % Efficiency grade: $N_{\text{actual}} = 37,5 / N_{\text{target}} = 36^*$ *ErP 2013Does not comply with the stipulations of the ErP regulations

2. Characteristic curve

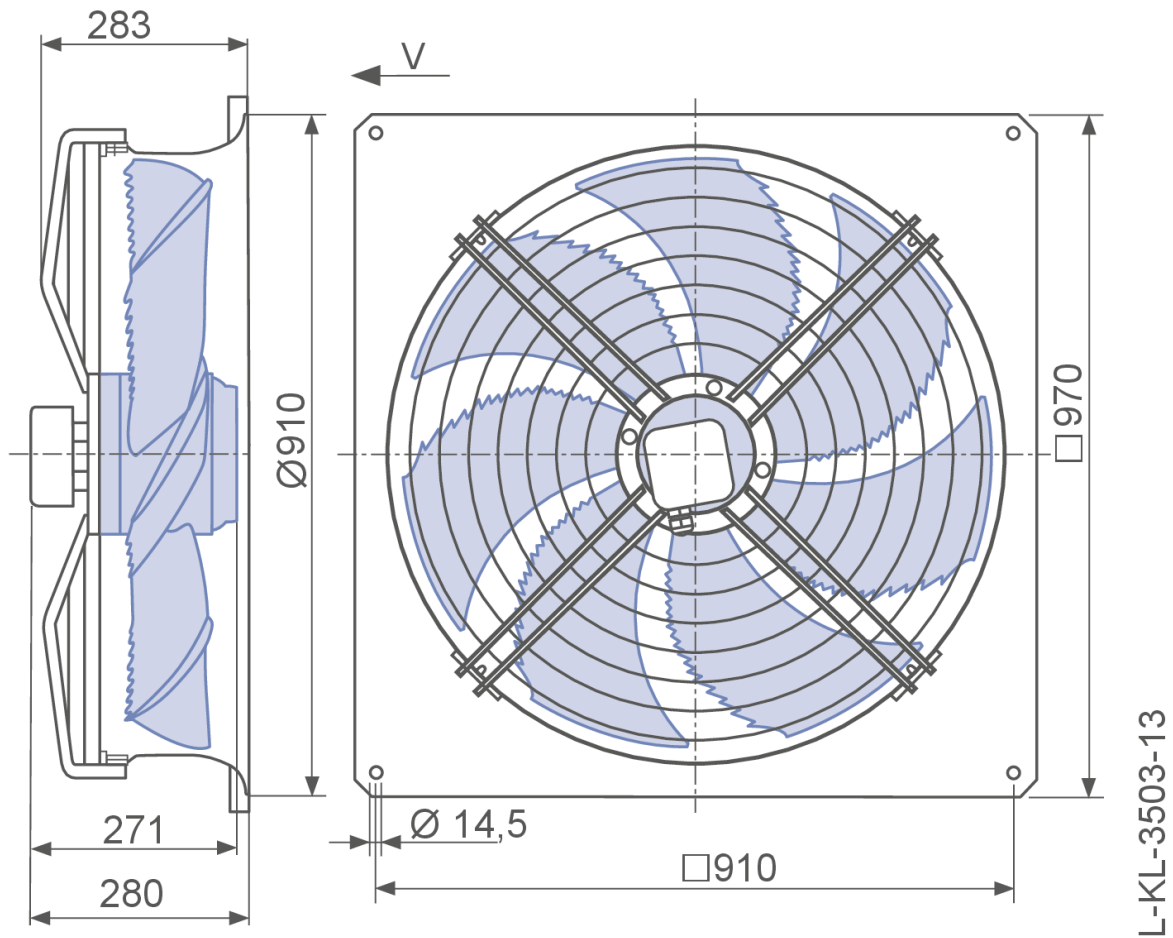
Characteristic curve

Frequency: 50 Hz



Operating point		①	②	③	④	⑤	⑥
Characteristic curve		I	I	I	II	II	II
Connection		Δ	Δ	Δ	Y	Y	Y
Voltage	V	400	400	400	400	400	400
Input power	W	2400	2100	1600	1200	1150	1050
Current	A	4,60	4,20	3,50	2,30	2,20	1,95
Speed	min^{-1}	830	860	900	560	620	690

3. Drawing

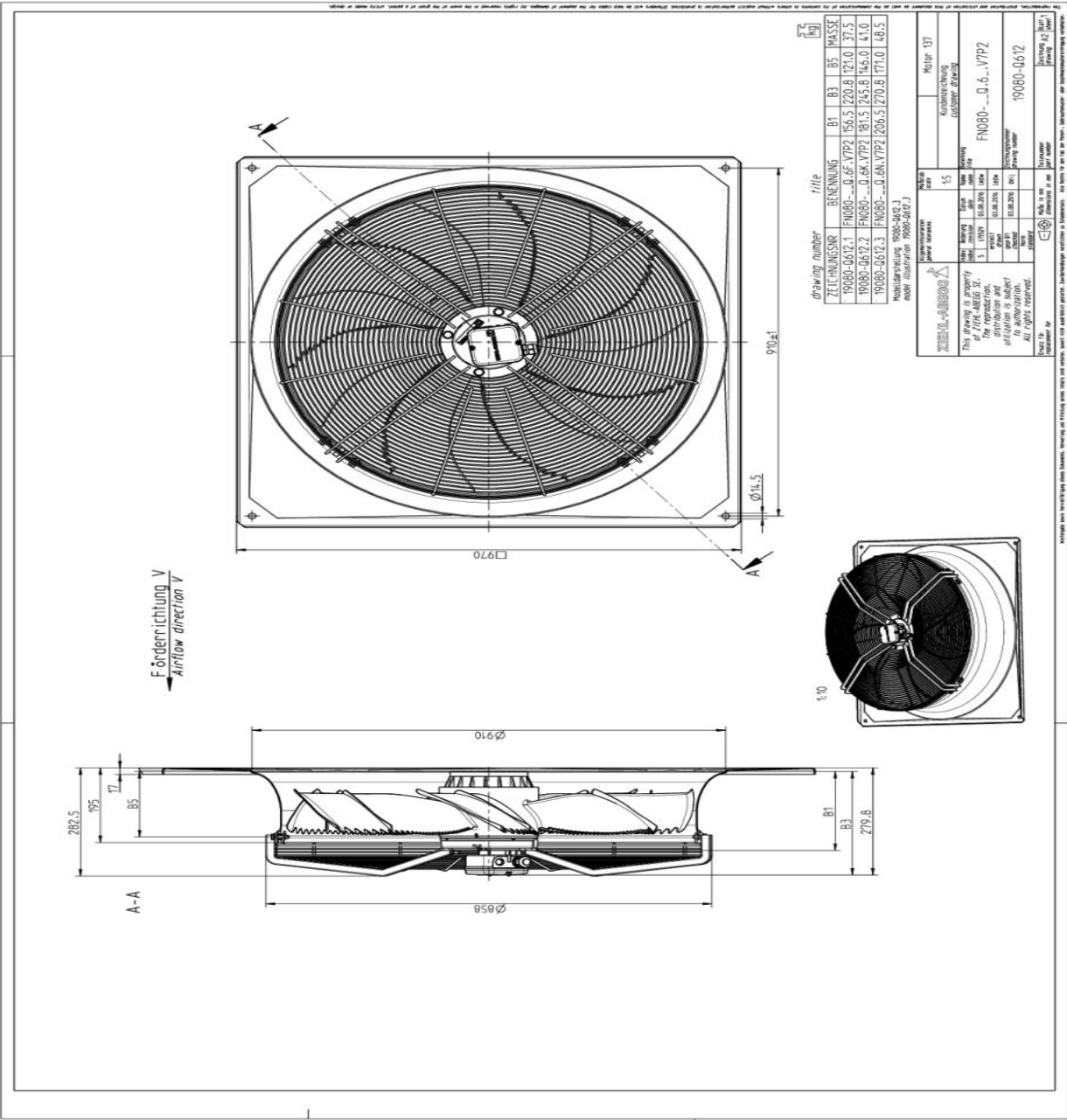


Dimensions in mm

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

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Die Königsklasse



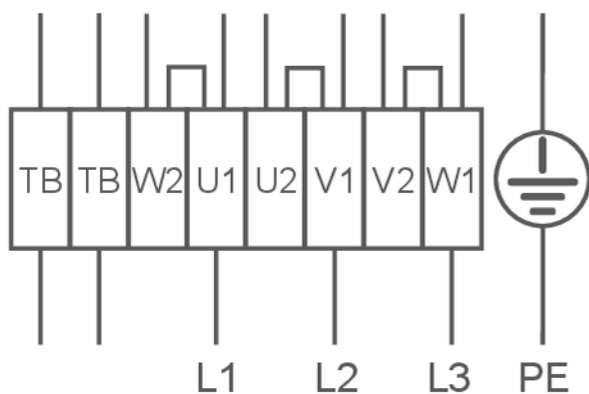
4. Connection diagram

1360-108XA

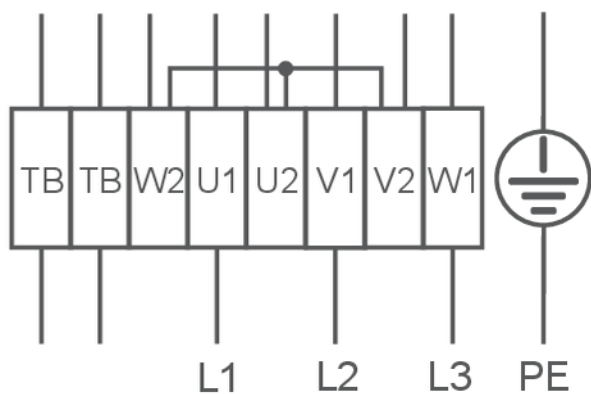
3~ motor, 2 speeds (Δ/Y switch over) with thermostatic switch (if built in). Without bridge when using speed change-over switch.

U1	brown
V1	blue
W1	black
U2	red
V2	grey
W2	orange
TB	white

High speed/D-connection



Low speed/Y-connection



5. EU-Declaration of conformity

EC-Declaration of conformity

- Translation -
(english)

ZA75-GB 1616 Index 011
00285644-GB

Manufacturer:
ZIEHL-ABEGG SE
Heinz-Ziehl-Straße
74653 Künzelsau
Germany

The manufacturer is solely responsible for issuance of the declaration of conformity.

The products:

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

The engine type:

- Asynchronous internal or external rotor motor
- Asynchronous internal or external rotor motor with integrated frequency inverter, except EDP system
- Electronically commutated (EC) internal or external rotor motor
- Electronically commutated internal or external rotor motor with integrated EC Controller, except EDP system

These products comply with the following EU directives:

- EMC Directive 2014/30/EU
- Low voltage directive 2014/35/EU
- ErP Directive 2009/125/EC, in conjunction with Regulation (EU) no. 327/2011

The following harmonized standards are in use:

EN 60034-1:2010 + Cor.:2010 EN 61000-6-3:2007 + A1:2011 + AC:2012
EN 60204-1:2006 + A1:2009 + AC:2010 EN 61000-6-2:2005 + AC:2005
EN 60529:1991 + A1:2000 + A2:2013

Compliance with the ErP Directive 2009/125/EC does not refer to external rotor motors MK.., MW..

All ErP-relevant information comprises measurements which are determined using a standardised measurement set-up. More details can be obtained from the manufacturer.

Compliance with the EMC Directive 2014/30 / EU refers only to those products when they are connected by mounting / operating instructions . If these products are integrated into a system or supplemented with other components (eg. sensing controls) and operated , the manufacturer or operator is responsible of the overall system for compliance with the EMC Directive 2014/30 / EU .

Künzelsau, 20.04.2016
(Location, date of issue)

ZIEHL-ABEGG SE
Dr. W. Angelis
Technical Director Air Movement Division
(Name, Function)



(Signature)

ZIEHL-ABEGG 

The Royal League Die Königsklasse



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

Intelligent control technology for any application

ZIEHL-ABEGG system capabilities:

Everything from a single source – perfectly matched for optimal performance

Please contact us. We would be pleased to design an individual solution for your requirements.

We would like to welcome you on our worldwide exhibitions. Please find our next exhibitions [here](#).