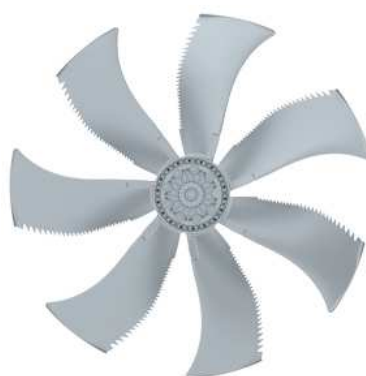


Movement by Perfection



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



Product documentation

Type
FN091-SDK.6N.V7P2

Article number
162029

Product documentation

Customer

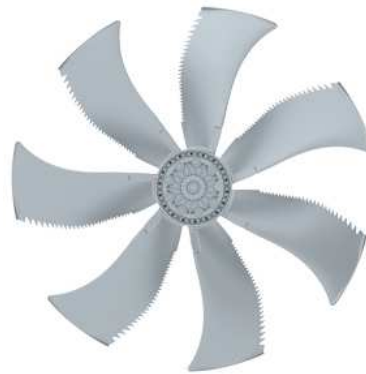
ZIEHL-ABEGG Contact

Project

ZIEHL-ABEGG Subsidiary
Czech Republic
ZIEHL-ABEGG s.r.o.
Škrobárenská 485/14
617 00 BRNO
Czech REPUBLIC
Phone +420 5 45421690
Fax +420 5 45421699
www.ziehl-abegg.cz
sales@ziehl-abegg.cz

Type
FN091-SDK.6N.V7P2

Article number
162029



Contents

1.	Product specification	3
2.	Characteristic Curve	4
3.	Drawing	5
4.	Connection diagram	6
5.	EU-Declaration of conformity	7

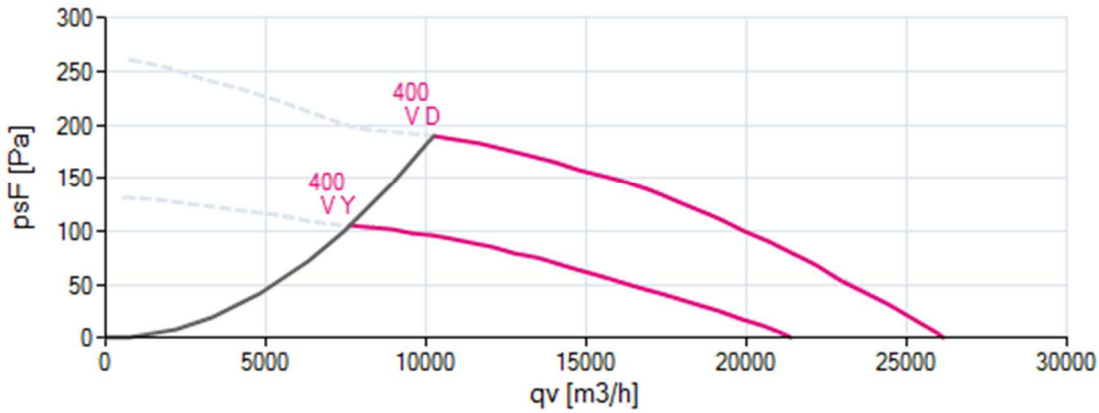
1. Product specification

Technical data

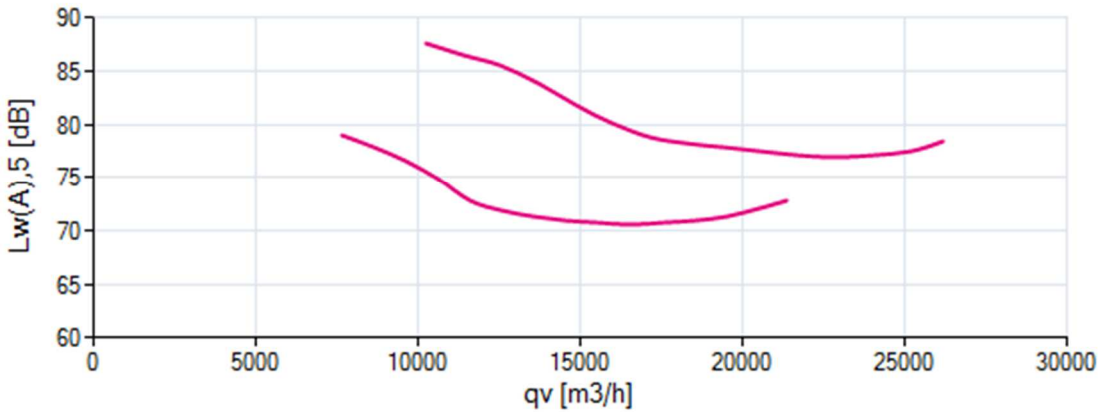
Article number	162029
Type	FN091-SDK.6N.V7P2
Designation	Axial fan with sickle blades
Rated values	3~400V±10% D/Y 50Hz P ₁ 1,85/1,05kW 3.80/ 1.90A ΔI=0% 840/ 630/min COSY 0,70 70°C 3~400V±10% D/Y 60Hz P ₁ 2,40/1,15kW 4,40/ 2,10A ΔI=0% 870/ 580/min COSY 0,80 50°C 3~460V±10% D/Y 60Hz P ₁ 2,80/1,45kW 4,60/ 2,20A ΔI=0% 950/ 660/min COSY 0,77 40°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
Field of application	Standard application
Guard grille type	ring grill
Other	All connecting elements in stainless steel.
Painting mot.suspens	Motor suspension powder-coated consistency class 2
colour suspension	RAL 9005 (jet black)
Weight kg	35,90
ErP Data	Efficiency η_{statA} : 39,2 % Efficiency grade: $N_{\text{actual}} = 44,0 / N_{\text{target}} = 40^*$ *ErP 2015

2. Characteristic Curve

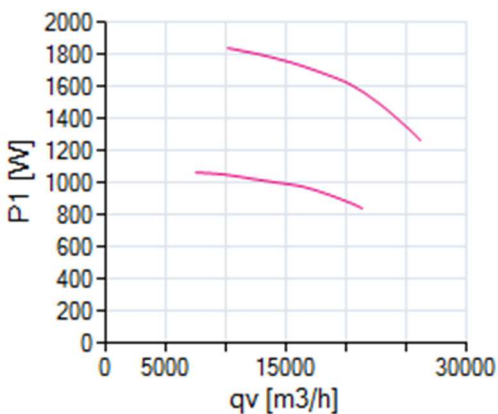
Air performance



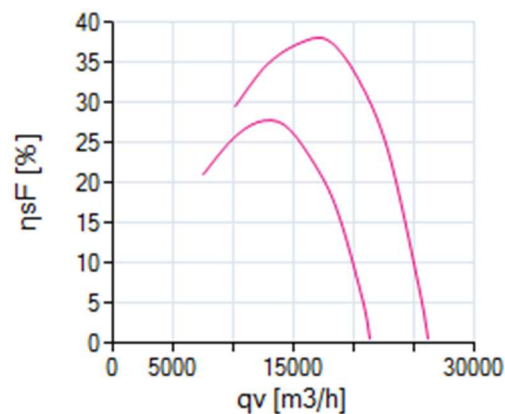
Acoustics



Power input



Efficiency



měřeno v plném hrdle bez mřížky, instalace typ A podle 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.

3. Drawing

Förderrichtung V
Airflow direction V

ZEICHNUNGSBEZEICHNUNG

ZEICHNUNGSBEZEICHNUNG	BEZEICHNUNG	BY	B3	B5	MASSZEICHNUNG
19091-K601.1	FN091_DK_6F_V7P2_165.2	270.5	13.5	28.1	
19091-K601.2	FN091_DK_6K_V7P2_181.5	245.8	18.5	31.8	
19091-K601.3	FN091_DK_6N_V7P2_206.5	270.8	163.5	35.9	

Modellzeichnung 19091-K601.3
Modellillustration 19091-K601.3

ZIEHL-ABEGG

This drawing is property of ZIEHL-ABEGG SE. All rights reserved. No distribution or utilization is allowed without written permission of ZIEHL-ABEGG SE. All rights reserved.

Produktname	Modell	Produktgruppe	Modellnummer	Produktcode	Produktbezeichnung
19091-K601					
19091-K601					
19091-K601					

Metrom 137

1:10

Dimensions in mm:
 - Front view diameters: $\varnothing 1115$, $\varnothing 1075 \pm 1$, $\varnothing 934$, $\varnothing 905$
 - Side view dimensions: 212, 85, 78.8, 67, 1.1, B, B1, B3, 986.4

Dimensions in mm

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

www.ziehl-abegg.com
15.11.2017 13:48:33

Movement by Perfection | Bewegung durch Perfektion

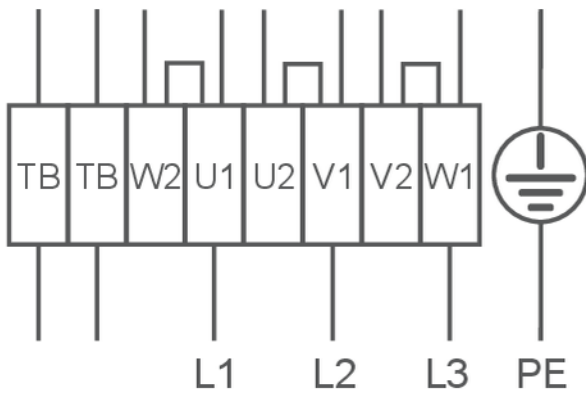
4. Connection diagram

1360-108XA

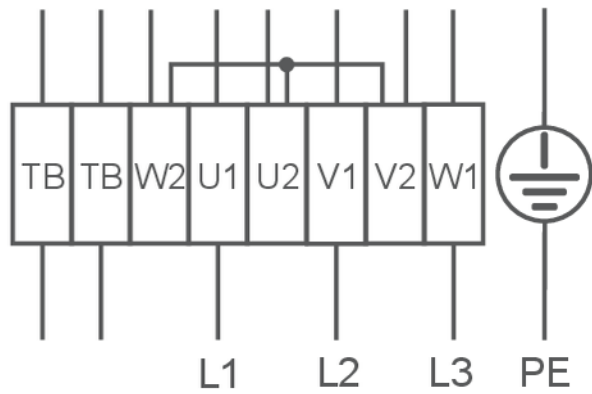
3~ motor, 2 speeds (Δ/Y switch over) with thermostatic switch (if built in). Without bridge when using speed change-over switch.

- 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	

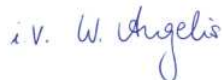
Compliance with the ErP Directive 2009/125/EC does not refer to external rotor motors MK., MW..

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)





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](#).