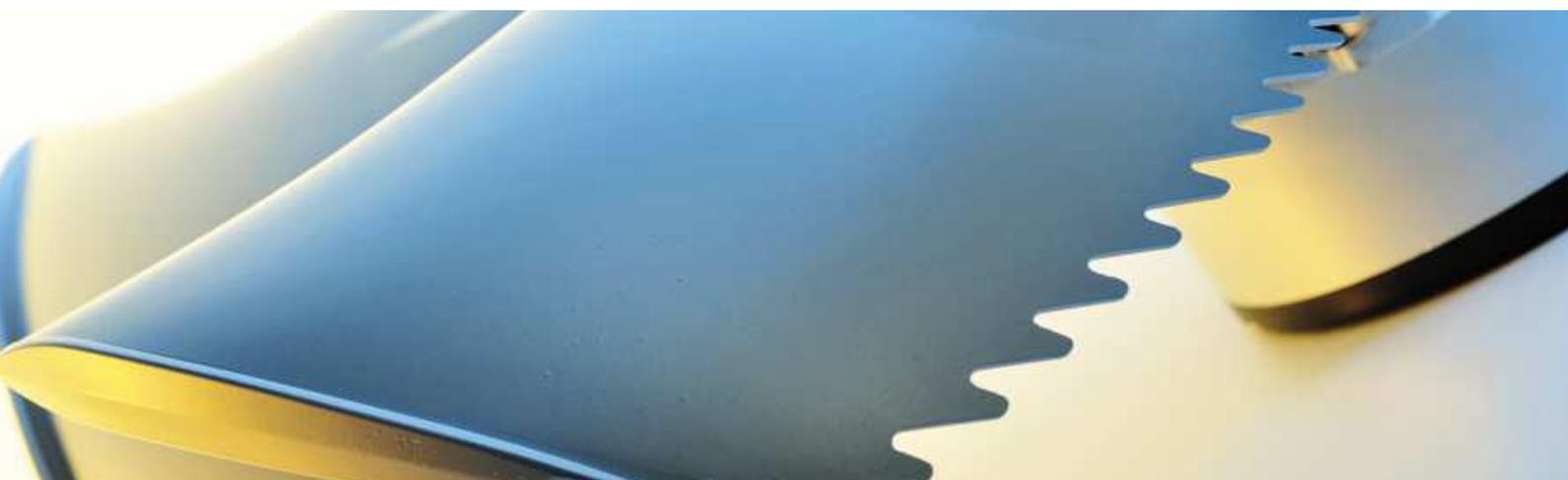


Movement by Perfection



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



Product documentation

Type  
FN031-4EF.0F.V7P2

Article number  
159480

## Product documentation

Customer  
Massey Coldbeck

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### 1. Product specification

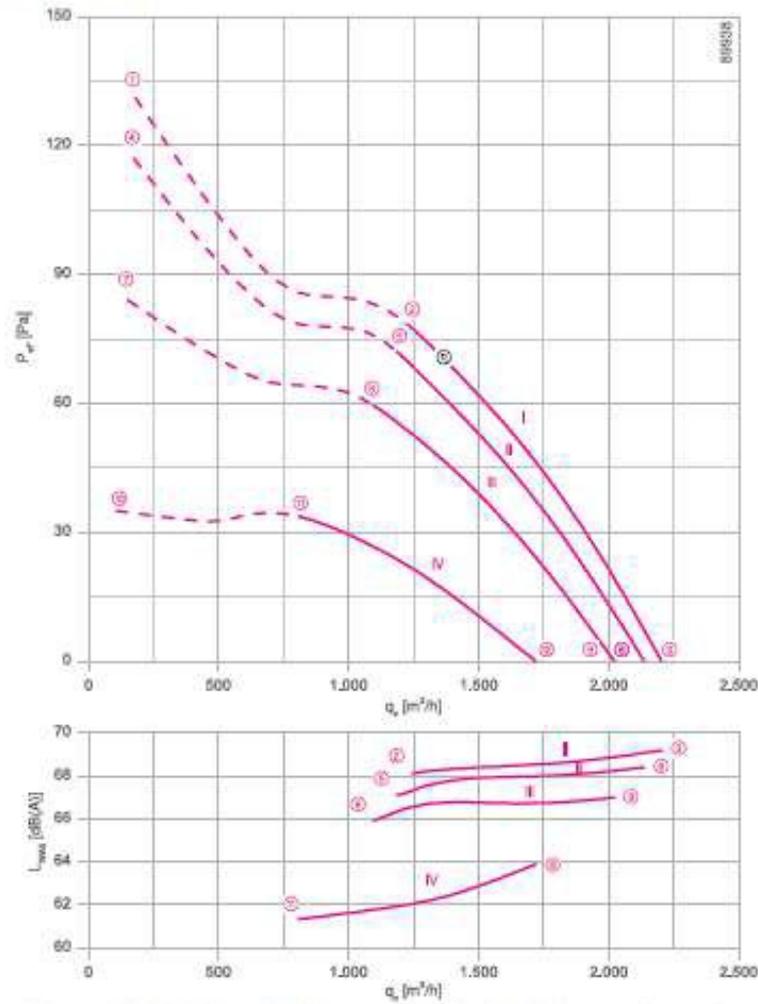
#### Technical data

<b>Article number</b>	159480
<b>Type</b>	FN031-4EF.0F.V7P2
<b>Designation</b>	Axial fan with sickle blades
<b>Rated values</b>	1~230V±10% 50Hz P <sub>1</sub> 120W 0.62A ΔI=35% 1440/min 3.0uF/400V 70°C 1~230V±10% 60Hz P <sub>1</sub> 170W 0,76A ΔI=30% 1690/min 3,0uF/400V 70°C
<b>Electrical connection</b>	Terminal box K51
<b>Min. operating temperature °C</b>	-25***
<b>Mounting type terminal box</b>	Mounted on fan housing
<b>Type of protection</b>	IP54
<b>Thermal class</b>	THCL155
<b>Connection diagram</b>	1360-104XA
<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>Quality of bearings</b>	ball bearing with long-time lubrication
<b>Material Rotor</b>	Aluminium
<b>Painting rotor</b>	Rotor 1 coat painted
<b>colour rotor</b>	RAL 9005 (jet black)
<b>Material blades</b>	High Performance Composite Material
<b>Painting impeller</b>	unpainted
<b>Colour blades</b>	black
<b>Guard grille type</b>	ring grill
<b>Painting housing</b>	Bell mouth powder-coated consistency class 1
<b>Colour housing</b>	RAL 9005 (jet black)
<b>Painting mot.suspens</b>	Motor suspension powder-coated consistency class 1
<b>colour suspension</b>	RAL 9005 (jet black)
<b>Weight kg</b>	7,00
<b>ErP Data</b>	Not subject to the regulations of ErP directive (P <sub>1</sub> < 125 W)

\*\*\* Occasional operation ≤ -20°C and in consideration of lowest temperature according to product documentation permissible. For cooling applications with continuous operation ≤ -20°C cold design on request.

## 2. Characteristic Curve

Characteristic curve



Measured in full bell mouth without guard grille in installation type A according to ISO 5801

### Performance data

Type	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level
		U V		I A	P <sub>i</sub> W	n min <sup>-1</sup>	L <sub>w,suc</sub> dB(A)
FN031-4E_OF_7P2	I	230	①	0.66	130	1430	
		230*	②	0.61*	120*	1440*	68
		230	③	0.58	110	1450	69
	II	170	④	0.68	110	1350	
		170	⑤	0.58	95	1390	67
		170	⑥	0.50	80	1410	68
	III	135	⑦	0.86	110	1150	
		135	⑧	0.70	90	1270	66
		135	⑨	0.58	75	1340	67
	IV	110	⑩	0.92	90	740	
		110	⑪	0.84	85	950	61
		110	⑫	0.72	75	1140	64

\*rated data



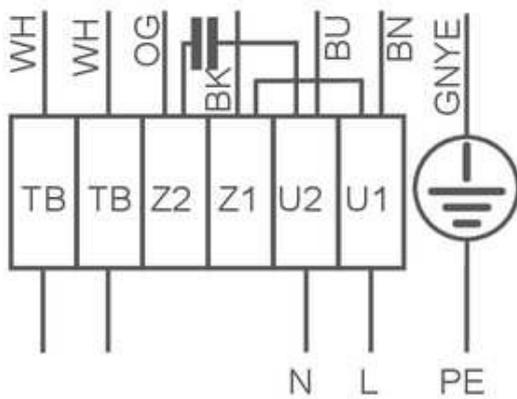
### 4. Connection diagram

#### 1360-104XA

1~Motor with capacitor and thermostatic switch (if built in).

- BN brown
- BU blue
- BK black
- OG orange
- WH white
- GNYE orangegreen

Clockwise rotation



## 5. EU-Declaration of conformity

### EU declaration of conformity

- Translation -  
(english)  
ZA75-GB 1910 Index 015

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

#### The motor type:

- Asynchronous internal or external rotor motor
- Asynchronous internal or external rotor motor with integrated frequency inverter
- Electronically commutated internal or external rotor motor
- Electronically commutated internal or external rotor motor with integrated EC controller

#### 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 harmonised standards have been used:

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

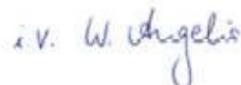
Compliance with the ErP Directive 2009/125/EC does not refer to external rotor motors MK..., MW...

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 (e.g. sensing controls) and operated, the manufacturer or operator is responsible of the overall system for compliance with the EMC Directive 2014/30/EU.

Künzelsau, 05.03.2019  
(location, date of issue)

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



(Signature)

ZIEHL-ABEGG SE  
Dr. D. Kappel  
Deputy Head of Electrical Systems  
(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](#).