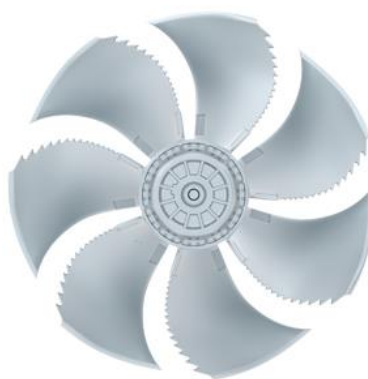


Movement by Perfection



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



### Documentação de Produto

Tipo  
FN056-4DK.4M.V7P2

Código de Artigo  
162306

## Documentação de Produto

Cliente  
introduza aqui

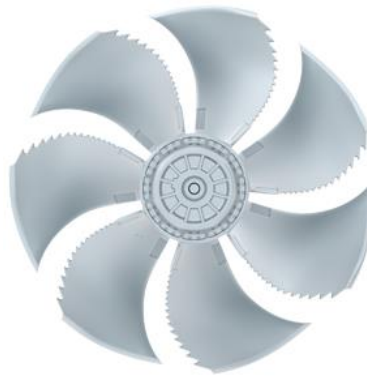
ZIEHL-ABEGG Contact  
Vorname1 Nachname1  
Tel. TELDW  
vorname.nachname@ziehl-abegg.de

Projecto  
introduza aqui

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de Ventilação Ltda.  
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Cajamar -SP - CEP 07753-040  
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info@ziehl-abegg.com.br

Tipo  
FN056-4DK.4M.V7P2

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### Conteúdos

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## 1. Especificação de produto

### Dados técnicos

<b>Código de Artigo</b>	162306
<b>Tipo</b>	FN056-4DK.4M.V7P2
<b>Descrição</b>	Axial fan with sickle blades
<b>Valores nominais</b>	3~230/400V±10% D/Y 50Hz P <sub>1</sub> 1,05kW 3.80/ 2.20A ΔI=0% 1280/min COSY 0,68 70°C 3~230/400V±10% D/Y 60Hz P <sub>1</sub> 1,35kW 4,60/ 2,60A ΔI=0% 1320/min COSY 0,73 55°C 3~265/460V±10% D/Y 60Hz P <sub>1</sub> 1,55kW 4,60/ 2,70A ΔI=0% 1420/min COSY 0,72 55°C
<b>Ligação eléctrica</b>	Terminal box K62
<b>Min. temperatura funcionamento °C</b>	-40***
<b>Montagem da caixa de bornes tipo</b>	Mounted on Stator
<b>Tipo de protecção</b>	IP54
<b>Classe térmica</b>	THCL155
<b>Esquema de ligações</b>	1360-106XA
<b>Chapa de características</b>	1x fixed
<b>Posição de montagem</b>	H/Vu/Vo
<b>Protecção do motor</b>	thermal contact
<b>Impregnação do bobinado</b>	Moisture and hot climate protection
<b>Qualidade rolamentos</b>	ball bearing with long-time lubrication
<b>Material do rotor</b>	Alumínio
<b>Pintura rotor</b>	sem pintura
<b>Material das pás</b>	Alumínio
<b>Pintura hélice</b>	unpainted
<b>Tipo de grelha de protecção</b>	ring grill
<b>Control</b>	--
<b>Pintura suporte</b>	Motor suspension powder-coated consistency class 2
<b>cor do suporte</b>	RAL 9005 (jet black)
<b>Peso kg</b>	15,50
<b>ErP Dados</b>	Efficiency $\eta_{statA}$ : 33,7 % Efficiency grade: $N_{actual} = 40,1 / N_{target} = 40^*$ *ErP 2015

\*\*\* Occasional operation  $\leq -20^{\circ}\text{C}$  and in consideration of lowest temperature according to product documentation permissible. For cooling applications with continuous operation  $\leq -20^{\circ}\text{C}$  cold design on request.

## 2. Curva característica

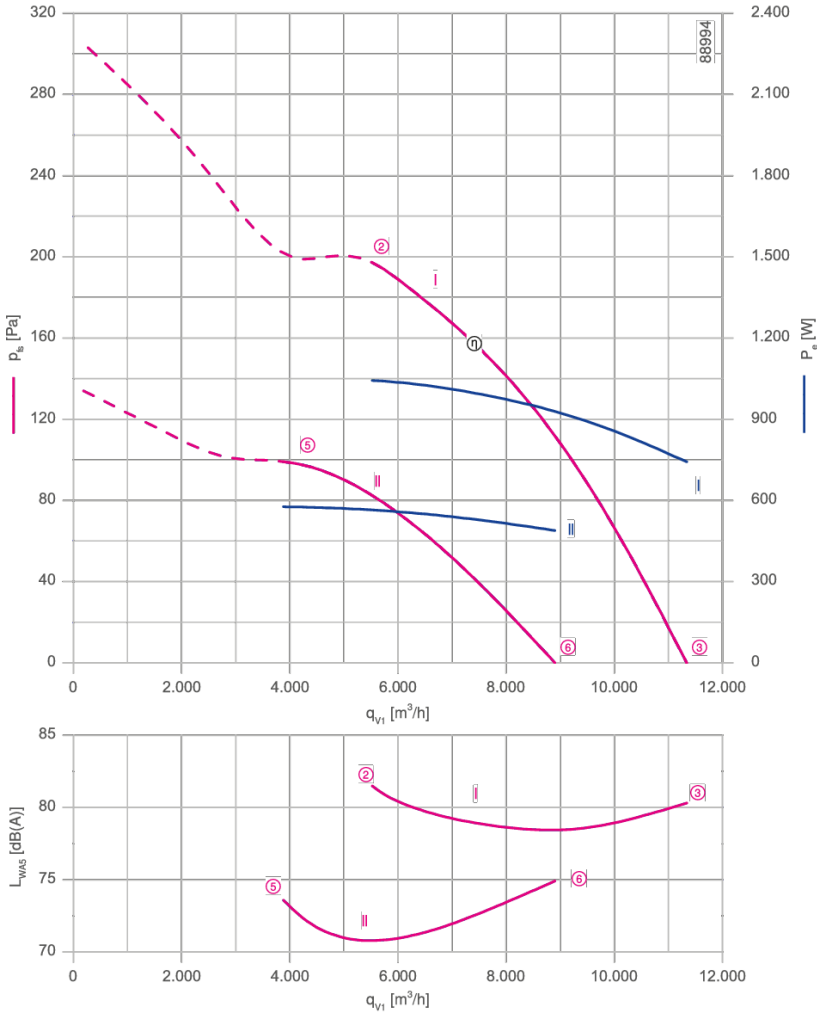
Kennliniexx123

UmbruchKL

### Characteristic curve

Frequency: 50 Hz

Measured in full nozzle without guard grille in installation type A according to ISO 5801.



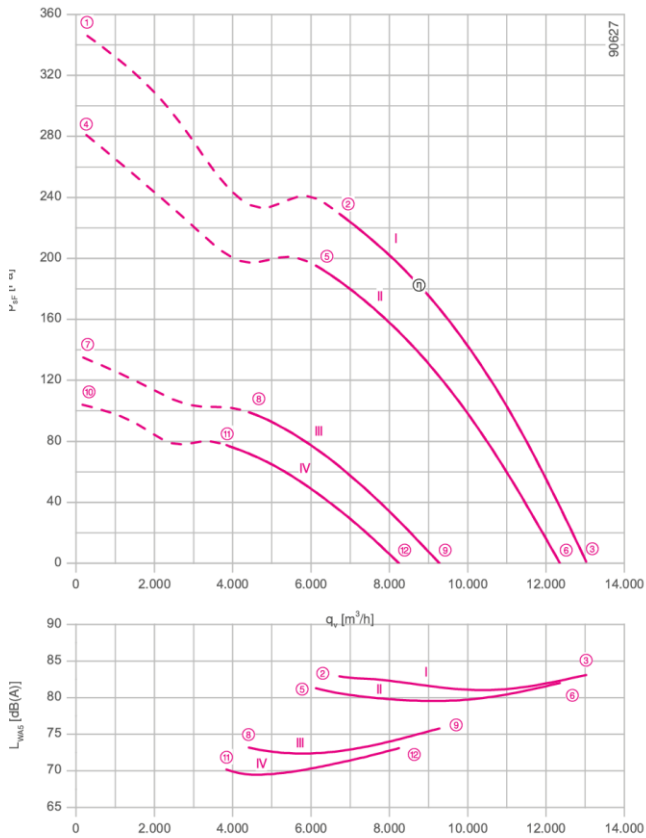
I = 3~400 V D, II = 3~400 V Y

Ponto de trabalho		②	③	⑤	⑥
Curva característica		I	I	II	II
Ligação		Δ	Δ	Y	Y
Tensão	V	400	400	400	400
Potência alimentada	W	1050	740	580	480
Corrente	A	2,20	1,75	1,10	0,94
Velocidade de rotação	rpm	1280	1370	910	1080
Potência sonora do lado de aspiração	dB(A)	82	80	73	75

UmbruchKL

Frequency: 60 Hz

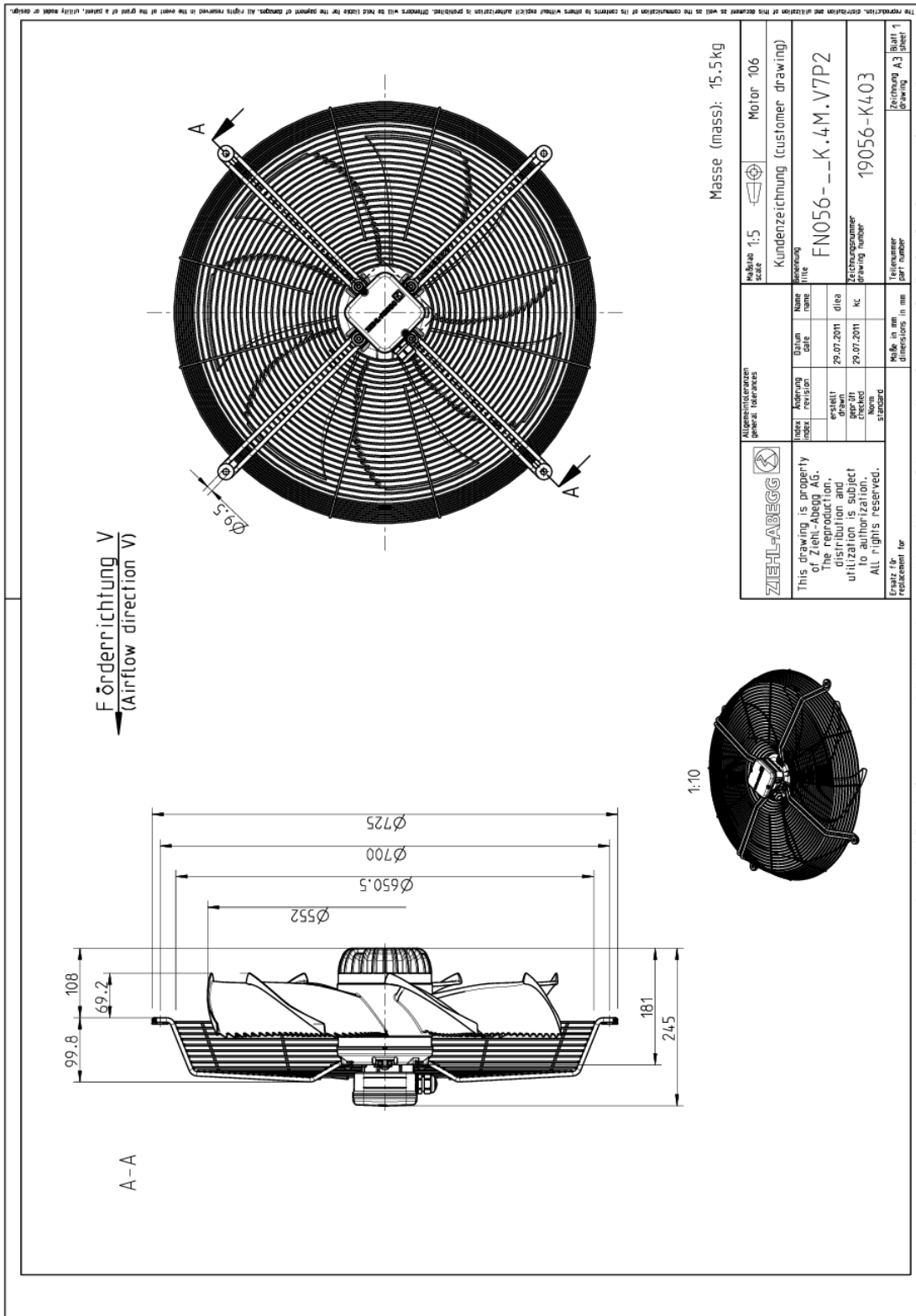
Measured in full nozzle without guard grille in installation type A according to ISO 5801.



I = 3~460 V D, II = 3~400 V D, III = 3~460 V Y, IV = 3~400 V Y

Ponto de trabalho		②	③	⑤	⑥	⑧	⑨	⑪	⑫
Curva característica		I	I	II	II	III	III	IV	IV
Ligação		Δ	Δ	Δ	Δ	Y	Y	Y	Y
Tensão	V	460	460	400	400	460	460	400	400
Potência alimentada	W	1550	1150	1350	1050	740	660	580	540
Corrente	A	2,70	2,10	2,70	2,10	1,25	1,10	1,15	1,05
Velocidade de rotação	rpm	1420	1570	1310	1490	940	1120	820	1000
Potência sonora do lado de aspiração	dB(A)	83	83	81	82	73	76	70	73

## 3. Desenho



		ALLEN REVISIONS DATE REVISIONS		NAME DATE		DRAWING NUMBER		SCALE DRAWING	
INDEX	DATE	INDEX	DATE	INDEX	DATE	INDEX	DATE	INDEX	DATE
1	29.07.2011	1	29.07.2011	1	29.07.2011	1	29.07.2011	1	29.07.2011
This drawing is property of Ziehl-Abegg AG. The reproduction, distribution and utilization is subject to copyright. ALL RIGHTS RESERVED.		Maßstab in mm Dimensions in mm		Zeichnung Blatt 1		Zeichnung Blatt 1		Zeichnung Blatt 1	

Dimensões em mm

O desenho apenas representa as dimensões do ventilador

www.ziehl-abegg.com  
ErstellsQQQXXYYdate

Movement by Perfection | Bewegung durch Perfektion

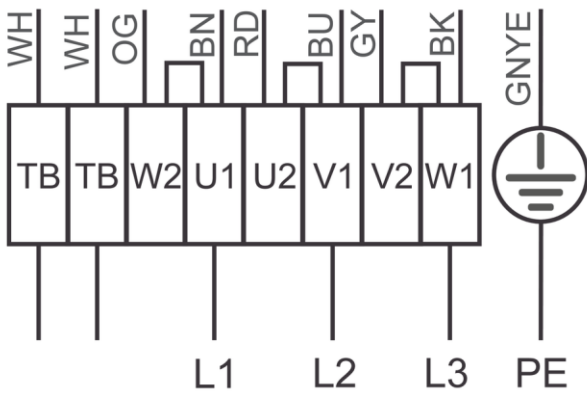
### 4. Esquema de ligações

1360-106XA

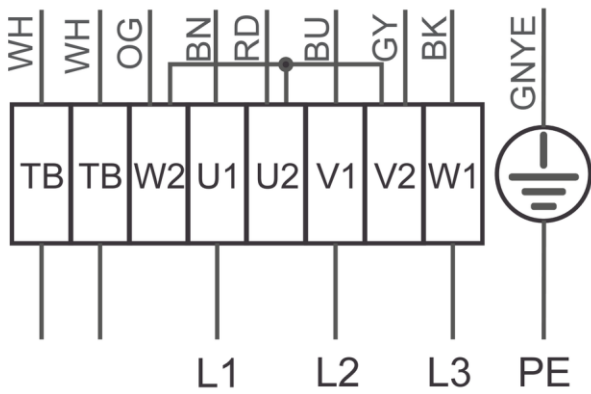
3~ motor with one speed and thermostatic switch (if built in).

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

Δ-connection



Y-connection



### 5. EU-Declaração de Conformidade

#### 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](#).