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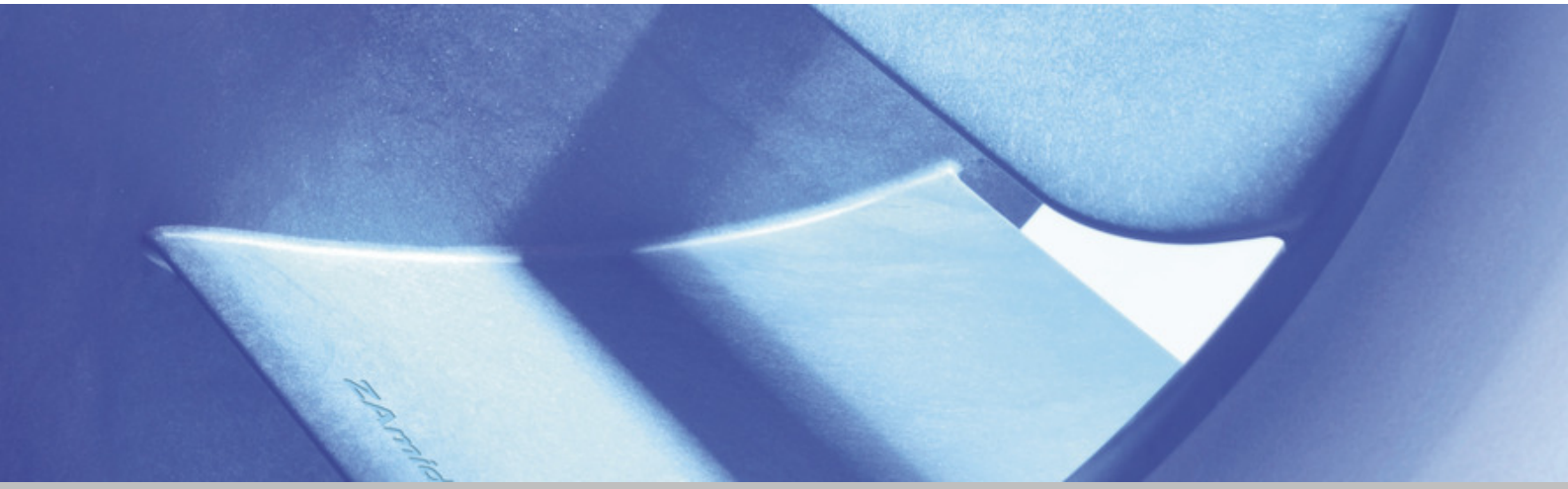
Movement by Perfection



The Royal League in ventilation, control and drive technology

Product documentation

Type
RH50M-6EK.4I.1R

Article number
201725K

ZIEHL-ABEGG

Product documentation

Customer
enter here

Project
enter here

ZIEHL-ABEGG Contact
Anthony Mamo
Tel.

ZIEHL-ABEGG Subsidiary
Australia
ZIEHL-ABEGG Australia Pty Ltd (VIC)
181 Calarco Drive
Derrimut
VICTORIA 3030
AUSTRALIA
Phone +61 3 99310899
Fax +61 3 99310499
www.ziehl-abegg.com.au
info@ziehl-abegg.com.au

Type
RH50M-6EK.4I.1R

Article number
201725K

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1. Product specification

Technical data

Article number	201725K
Type	RH50M-6EK.4I.1R
Designation	Single inlet impeller with backward curved blades.
Rated values	1~230V ±10% 50Hz P_1 0.45kW 2.20A 880/min 8.0uF/400V
Electrical connection	Terminal box K02/N
Min. operating temperature [°C]	-25
Terminal box,mount.	fixed on Motor
Material impeller	aluminium
Painting impeller	unpainted
Connection diagram	1360-104XA
Rating plate	1x fixed.
Installation position	H/Vu/Vo
Motor protection	thermal contact
Type of protection	IP54
Thermal class	Thermal class 155
Impregnation	Moisture and hot climate protection
Balancing	6,3
Quality of bearings	ball bearing with long-time lubrication
Weight kg	12,10
ErP Data	Efficiency η_{statA}: 44.8 % Efficiency: N_{actual} = 59.1 / N_{target} = 58* *ErP 2013Does not comply with the stipulations of the ErP regulations

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2. Characteristic curve

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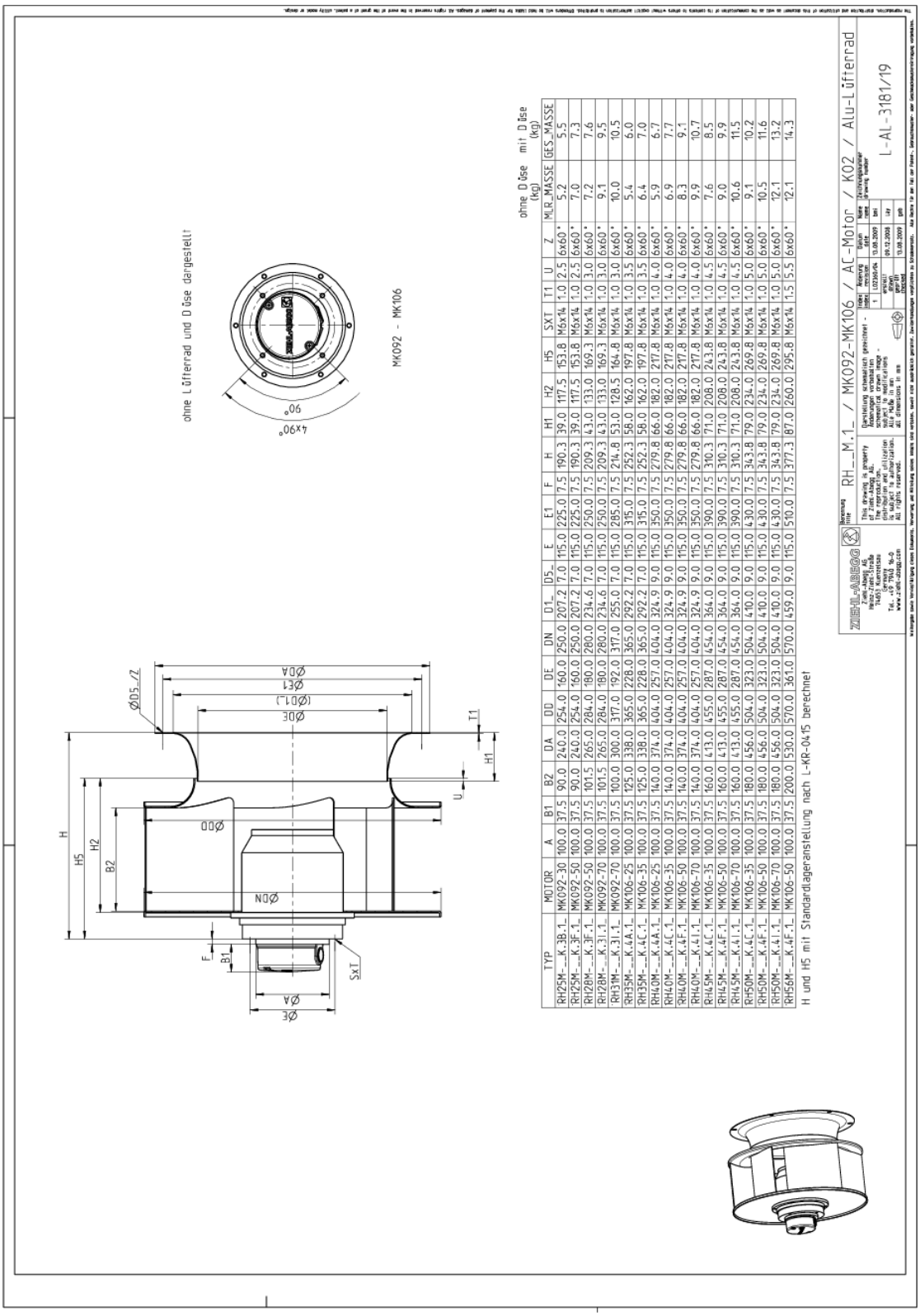
3. Drawing



TYP	MOTOR	A	B1	B2	DA	DD	DE	DN	D1_	D5_	E	E1	F	H	H1	H2	H5	SXT	T1	U	Z	ohne Düse mit Düse (kg) M_R_MASSE	GES_MASSE
RH25M-__K.3B.1_	MK092-30	100.0	37.5	90.0	240.0	254.0	160.0	250.0	207.2	7.0	115.0	225.0	7.5	190.3	39.0	117.5	153.8	M6x14	1.0	2.5	6x60°	5.2	5.5
RH25M-__K.3F.1_	MK092-50	100.0	37.5	90.0	240.0	254.0	160.0	250.0	207.2	7.0	115.0	225.0	7.5	190.3	39.0	117.5	153.8	M6x14	1.0	2.5	6x60°	7.0	7.3
RH28M-__K.3F.1_	MK092-50	100.0	37.5	101.5	265.0	284.0	180.0	280.0	234.6	7.0	115.0	250.0	7.5	209.3	43.0	133.0	169.3	M6x14	1.0	3.0	6x60°	7.2	7.6
RH28M-__K.3J.1_	MK092-70	100.0	37.5	101.5	265.0	284.0	180.0	280.0	234.6	7.0	115.0	250.0	7.5	209.3	43.0	133.0	169.3	M6x14	1.0	3.0	6x60°	9.1	9.5
RH31M-__K.3J.1_	MK092-70	100.0	37.5	100.0	300.0	317.0	192.0	317.0	255.0	7.0	115.0	285.0	7.5	214.8	53.0	128.5	164.8	M6x14	1.0	3.0	6x60°	10.0	10.5
RH35M-__K.4A.1_	MK106-25	100.0	37.5	125.0	338.0	365.0	228.0	365.0	292.2	7.0	115.0	315.0	7.5	252.3	58.0	162.0	197.8	M6x14	1.0	3.5	6x60°	5.4	6.0
RH35M-__K.4C.1_	MK106-35	100.0	37.5	125.0	338.0	365.0	228.0	365.0	292.2	7.0	115.0	315.0	7.5	252.3	58.0	162.0	197.8	M6x14	1.0	3.5	6x60°	6.4	7.0
RH40M-__K.4A.1_	MK106-25	100.0	37.5	140.0	374.0	404.0	257.0	404.0	324.9	9.0	115.0	350.0	7.5	279.8	66.0	182.0	217.8	M6x14	1.0	4.0	6x60°	5.9	6.7
RH40M-__K.4C.1_	MK106-35	100.0	37.5	140.0	374.0	404.0	257.0	404.0	324.9	9.0	115.0	350.0	7.5	279.8	66.0	182.0	217.8	M6x14	1.0	4.0	6x60°	6.9	7.7
RH40M-__K.4F.1_	MK106-50	100.0	37.5	140.0	374.0	404.0	257.0	404.0	324.9	9.0	115.0	350.0	7.5	279.8	66.0	182.0	217.8	M6x14	1.0	4.0	6x60°	8.3	9.1
RH40M-__K.4J.1_	MK106-70	100.0	37.5	140.0	374.0	404.0	257.0	404.0	324.9	9.0	115.0	350.0	7.5	279.8	66.0	182.0	217.8	M6x14	1.0	4.0	6x60°	9.9	10.7
RH45M-__K.4C.1_	MK106-35	100.0	37.5	160.0	413.0	455.0	287.0	454.0	364.0	9.0	115.0	390.0	7.5	310.3	71.0	208.0	243.8	M6x14	1.0	4.5	6x60°	7.6	8.5
RH45M-__K.4F.1_	MK106-50	100.0	37.5	160.0	413.0	455.0	287.0	454.0	364.0	9.0	115.0	390.0	7.5	310.3	71.0	208.0	243.8	M6x14	1.0	4.5	6x60°	9.0	9.9
RH45M-__K.4J.1_	MK106-70	100.0	37.5	160.0	413.0	455.0	287.0	454.0	364.0	9.0	115.0	390.0	7.5	310.3	71.0	208.0	243.8	M6x14	1.0	4.5	6x60°	10.6	11.5
RH50M-__K.4C.1_	MK106-35	100.0	37.5	180.0	456.0	504.0	323.0	504.0	410.0	9.0	115.0	430.0	7.5	343.8	79.0	234.0	269.8	M6x14	1.0	5.0	6x60°	9.1	10.2
RH50M-__K.4F.1_	MK106-50	100.0	37.5	180.0	456.0	504.0	323.0	504.0	410.0	9.0	115.0	430.0	7.5	343.8	79.0	234.0	269.8	M6x14	1.0	5.0	6x60°	10.5	11.6
RH50M-__K.4J.1_	MK106-70	100.0	37.5	180.0	456.0	504.0	323.0	504.0	410.0	9.0	115.0	430.0	7.5	343.8	79.0	234.0	269.8	M6x14	1.0	5.0	6x60°	12.1	13.2
RH56M-__K.4F.1_	MK106-50	100.0	37.5	200.0	530.0	570.0	361.0	570.0	459.0	9.0	115.0	510.0	7.5	377.3	87.0	260.0	295.8	M6x14	1.5	5.5	6x60°	12.1	14.3

H und H5 mit Standardlageransfellung nach L-KR-0415 berechnet

Dimensions in mm

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

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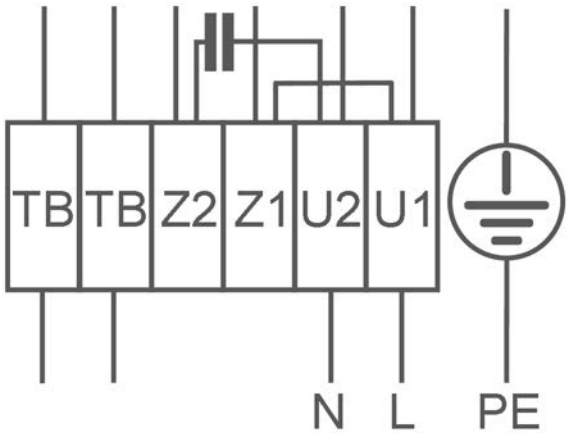
4. Connection diagram

1360-104XA

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

U1	brown
U2	blue
Z1	black
Z2	orange
TB	white

Clockwise rotation



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

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)

i.V. W. Angelis

(Signature)

ZIEHL-ABEGG

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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.

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