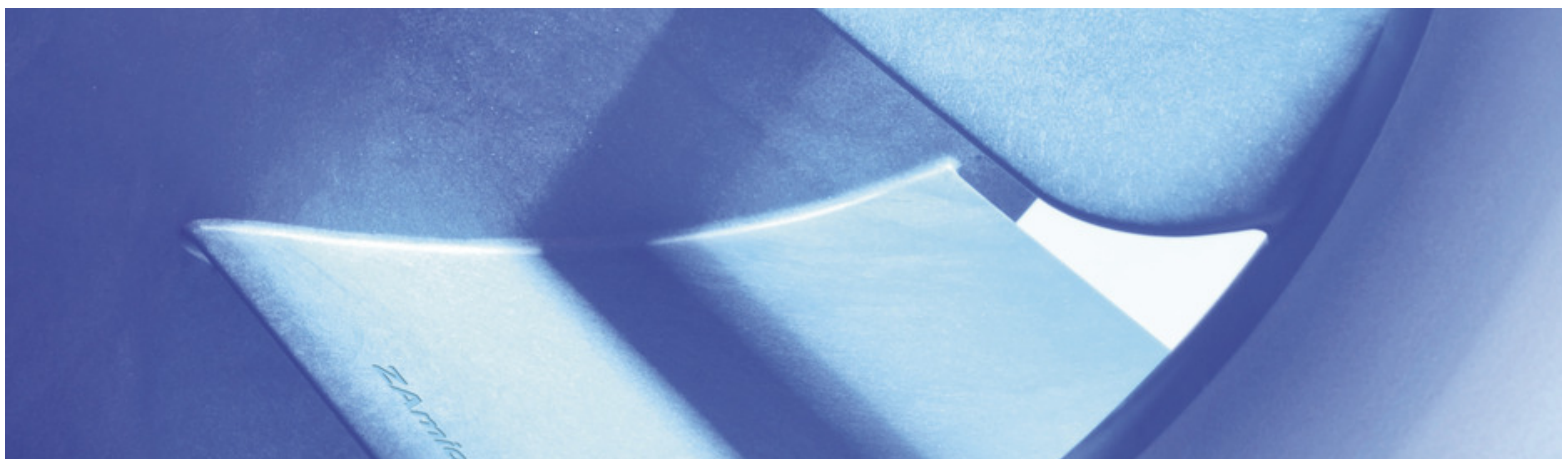


Movement by Perfection



The Royal League in ventilation, control and drive technology



[Product documentation](#)

Type  
[RH45M-VDK.4F.1R](#)

Article number  
[107724](#)

## Product documentation

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RH45M-VDK.4F.1R

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## 1. Product specification - Technical data

<b>Article number</b>	107724
<b>Type</b>	RH45M-VDK.4F.1R
<b>Designation</b>	Single inlet impeller with backward curved blades.
<b>Rated values</b>	3~400V $\pm 10\%$ $\Delta/Y$ 50Hz P <sub>1</sub> 0,69/0,35kW 1,30/ 0,68A $\Delta I=0\%$ 1210/ 830/min COSY 0,75 40°C
<b>Electrical connection</b>	Terminal box K02/N
<b>Min. operating temperature °C</b>	-40***
<b>Terminal box, mount.</b>	fixed on Motor
<b>Material impeller</b>	Impeller made of aluminium
<b>Painting impeller</b>	unpainted
<b>Connection diagram</b>	1360-108XA
<b>Installation position</b>	Fitting position H/Vu/Vo
<b>Motor protection</b>	thermal contact
<b>Type of protection</b>	IP54
<b>Thermal class</b>	Thermal class 155
<b>Impregnation</b>	Moisture and hot climate protection
<b>Balancing</b>	2,5
<b>Quality of bearings</b>	ball bearing with long-time lubrication
<b>Weight kg</b>	9,00
<b>ErP Data</b>	* Does not comply with the stipulations of the ErP regulations

\*\*\*

### Operating mode:

Continuous operation with occasional starts (S1) according to DIN EN 60034-1:2011-02.

Occasional starting between - and -25 °C is permissible.

Continuous operation below -25 °C only with special bearings for refrigeration applications on request.

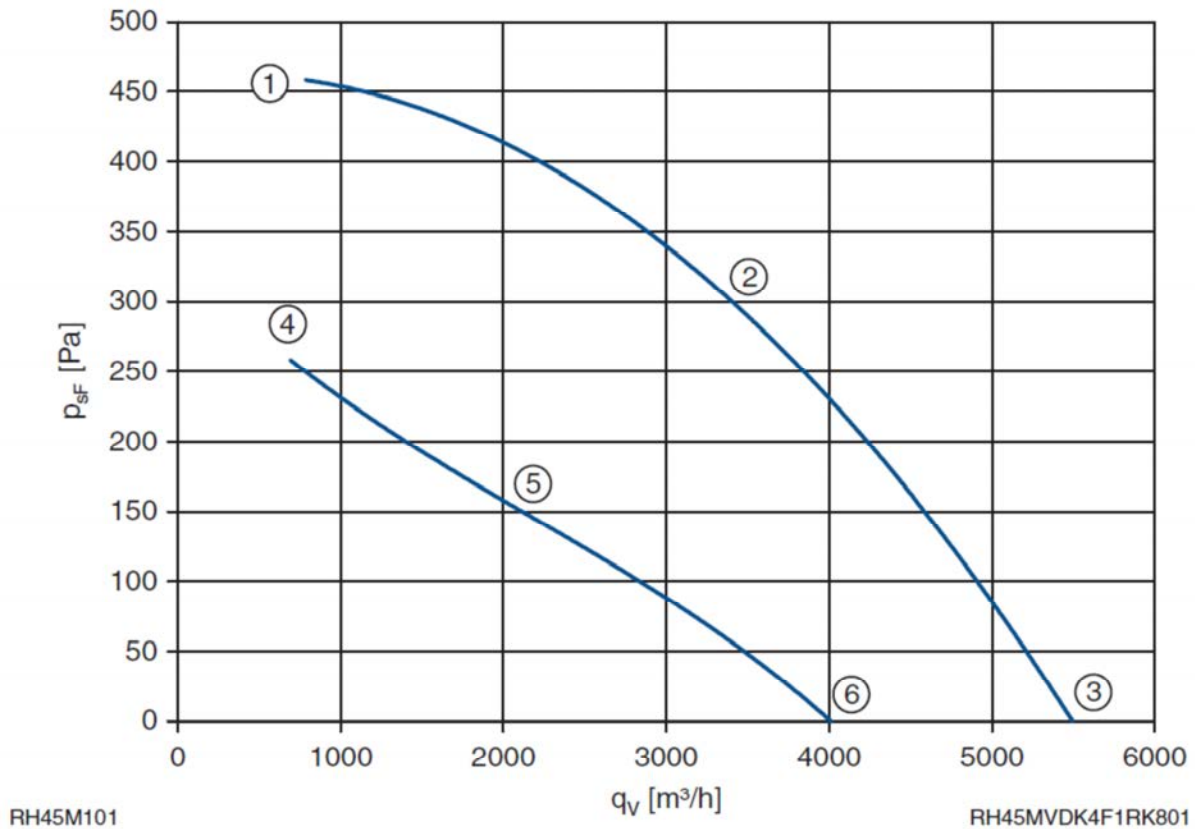
### Permissible minimum and maximum ambient temperature for operation:

Please refer to the technical documentation of the product for the minimum and maximum ambient temperature valid for the respective fan. Operation below -25 °C as well as partial load operation for refrigeration applications is only possible with special bearings for refrigeration applications on request. If special bearings for refrigeration applications are installed in the fan, please observe the permissible maximum temperatures in the technical documentation of the product.

### Ball-bearing service life:

The according to standard calculation methods determined bearing service life expectation of the motor-integrated ball bearings is mainly determined by the grease service life F10h and amounts for standard application to approx. 30.000 – 40.000 operating hours. The fan is maintenance-free due to the use of ball bearings with "lifetime lubrication". Once the grease operating life F10h has been reached, it may be necessary to replace the bearing. The bearing service life expectation may change compared to the specified value, if operating conditions such as increased vibrations or shocks, increased or too low temperatures, humidity, dirt in the ball bearing or unfavourable control modes are present. A service life calculation for special applications can be provided on request.

## 2. Characteristic curve



	U	I	P <sub>1</sub>	n	L <sub>WA</sub>
	V	A	W	min <sup>-1</sup>	dB
①		1,05	500	1330	
②	400Δ	1,3	690	1210	74
③		1,15	580	1290	83
④		0,58	310	990	
⑤	400Y	0,68	350	830	65
⑥		0,64	330	930	75



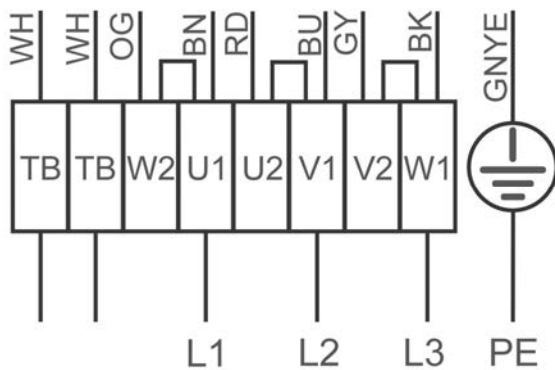
## 4. Connection diagram

### 1360-108XA

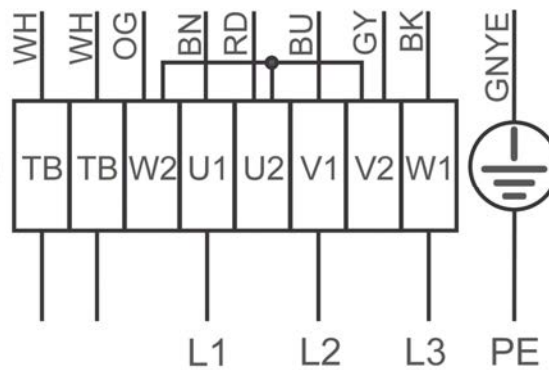
3~ motor, 2 speeds ( $\Delta/Y$  switch over) with thermostatic switch (if built in). Without bridge when using speed change-over switch.

BN brown  
BU blue  
BK black  
RD red  
GY grey  
OG orange  
WH white  
GNYE green-yellow

High speed/D-connection



Low speed/Y-connection





## 5. EU-Declaration of conformity



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# Intelligent control technology for any application

### ZIEHL-ABEGG system capabilities:

Everything from a single source – perfectly matched for optimal performance

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