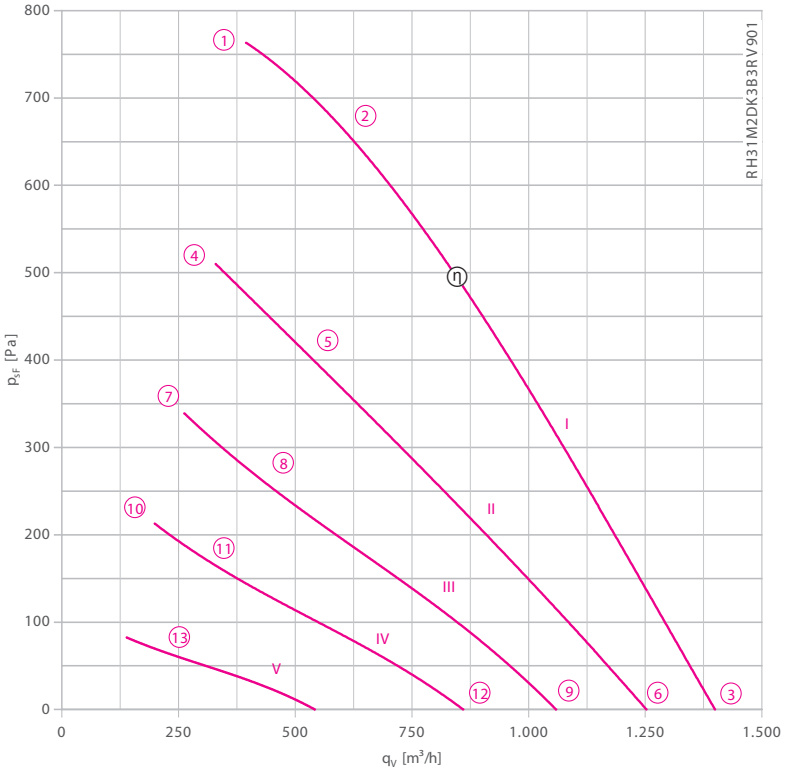
M-series

for three phase alternating current, 2 pole

RH31M-2D

Characteristic curve



measured with inlet ring, without guard grille according to ISO 5801

Description

Motor technology: AC
Rated voltage U_N: **3~ 230/400 V (Δ/Y) ±10 %***
Rated frequency f_N: **50 Hz***
Motor input power P_1: **0.32 kW***
Rated current I_N: **0.95/0.55 A***
Rated speed n_N: **2700 min^{-1}***
Starting current I_A: 3.80 A / 2.20 A
Dynamic pressure: $p_{d2} = 5.4 \cdot 10^{-5} \cdot q_V^2$ [Pa]
Thermal class: **THCL155***
Min. permitted ambient temperature $t_{R(min)}$: -40 °C
Max. permitted ambient temperature $t_{R(max)}$: 55 °C
Protection class: IP54
Motor protection: Thermal contact
Impeller : Aluminium, uncoated
Motor: 1 coat paint, pebble grey
* Rated data

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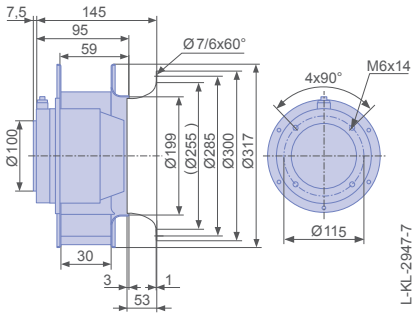
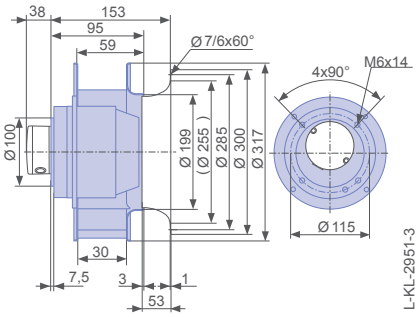
Connection diagram	1360-106XA SW	Page 549
System components		Page 448

Dimensions [mm]

Free-running motor impeller RH
in installation position H/Vu/Vo



Free-running motor impeller RH
in installation position H/Vu/Vo

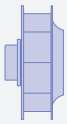
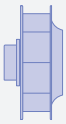


Performance data

Type	Characteristic curve	Voltage U [V]	Operating point	Current I [A]	Motor input power P_1 [W]	Speed n [min^{-1}]	Suction side sound power level L_{WA5} [dB]
RH31M-2DK.3B.3R	I	400	①	0.52	290	2740	
		400*	②	**0.55***	**320***	**2700***	80
		400	③	0.45	220	2820	82
	II	230	④	0.64	230	2230	
		230	⑤	0.67	240	2220	76
		230	⑥	0.49	175	2540	81
	III	180	⑦	0.64	180	1880	
		180	⑧	0.65	180	1810	71
		180	⑨	0.53	150	2210	77
	IV	140	⑩	0.57	125	1480	
		140	⑪	0.58	125	1440	66
		140	⑫	0.52	110	1770	72
	V	90	⑬	0.43	58	920	

*rated data

Fan ordering information

Design	RH*	RH*
Installation position	H/Vu/Vo	H/Vu/Vo
Electrical connection	Supply cable lateral 105cm	Terminal box Mounted on stator.
		
Type	**RH31M-2DK.3B.3R**	**RH31M-2DK.3B.3R**
Article no.	**121383**	**200875K**
Weight [kg]	5.40	5.40

* Inlet ring not included

Control technology

Frequency inverter Fcontrol 3~	Motor protection units 3~	Transformer-based controllers 3~	Electronic voltage controllers 3~
			
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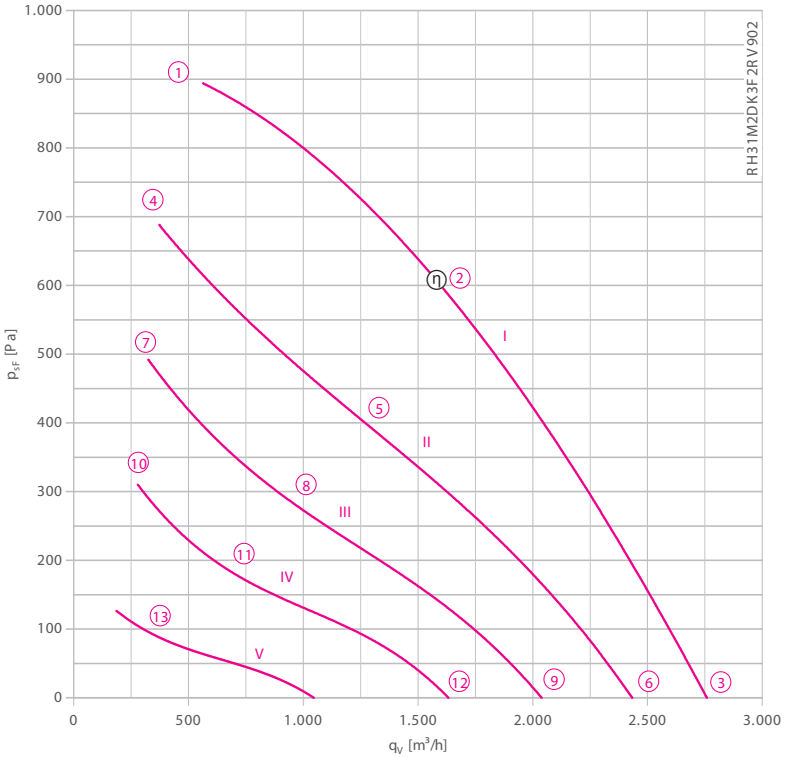
M-series

for three phase alternating current, 2 pole

RH31M-2D

Characteristic curve



measured with inlet ring, without guard grille according to ISO 5801

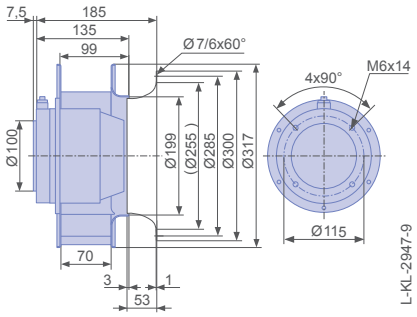
Description

Motor technology: AC
Rated voltage U_N: **3~ 230/400 V (Δ/Y) ±10 %***
Rated frequency f_N: **50 Hz***
Motor input power P_1: **0.62 kW***
Rated current I_N: **1.80/1.05 A***
Rated speed n_N: **2690 min^{-1}***
Starting current I_A: 7.50 A / 4.40 A
Current increase ΔI: 25 %
Dynamic pressure: $p_{d2} = 1 \cdot 10^{-6} \cdot q_V^2$ [Pa]
Thermal class: **THCL155***
Min. permitted ambient temperature $t_{R(min)}$: -40 °C
Max. permitted ambient temperature $t_{R(max)}$: 40 °C
Protection class: IP54
Motor protection: Thermal contact
Impeller : Aluminium, uncoated
Motor: 1 coat paint, pebble grey
Conformity: ErP 2013, CE
ErP-Daten
Efficiency η_{statA}: 44.8 %
Efficiency: N_{actual} = 58.0 / N_{target} = 58**
* Rated data
**ErP 2013

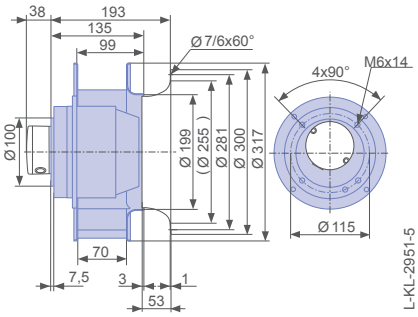
- Inlet ring 00279152 Page 451
- Connection diagram 1360-106XA SW Page 549
- System components Page 448

Dimensions [mm]

Free-running motor impeller RH
in installation position H/Vu/Vo



Free-running motor impeller RH
in installation position H/Vu/Vo

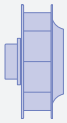
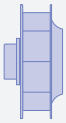


Performance data

Type	Characteristic curve	Voltage U [V]	Operating point	Current I [A]	Motor input power P_1 [W]	Speed n [min^{-1}]	Suction side sound power level L_{WA5} [dB]
RH31M-2DK.3F.2R	I	400	①	0.89	490	2760	
		400*	②	**1.05***	**620***	**2690***	86
		400	③	0.87	470	2780	91
	II	230	④	1.05	400	2390	
		230	⑤	1.30	500	2140	81
		230	⑥	1.05	410	2370	87
	III	180	⑦	1.10	330	2020	
		180	⑧	1.25	380	1760	76
		180	⑨	1.10	340	2010	83
	IV	140	⑩	1.05	240	1610	
		140	⑪	1.10	250	1380	71
		140	⑫	1.05	240	1610	79
	V	90	⑬	0.80	115	910	

*rated data

Fan ordering information

Design	RH*	RH*
Installation position	H/Vu/Vo	H/Vu/Vo
Electrical connection	Supply cable lateral 105cm	Terminal box Mounted on stator.
		
Type	**RH31M-2DK.3F.2R**	**RH31M-2DK.3F.2R**
Article no.	**209227**	**208617K**
Weight [kg]	7.20	7.20

* Inlet ring not included

Control technology

Frequency inverter Fcontrol 3~	Motor protection units 3~	Transformer-based controllers 3~	Electronic voltage controllers 3~
			
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