

M-series

for single phase alternating current, 2 pole

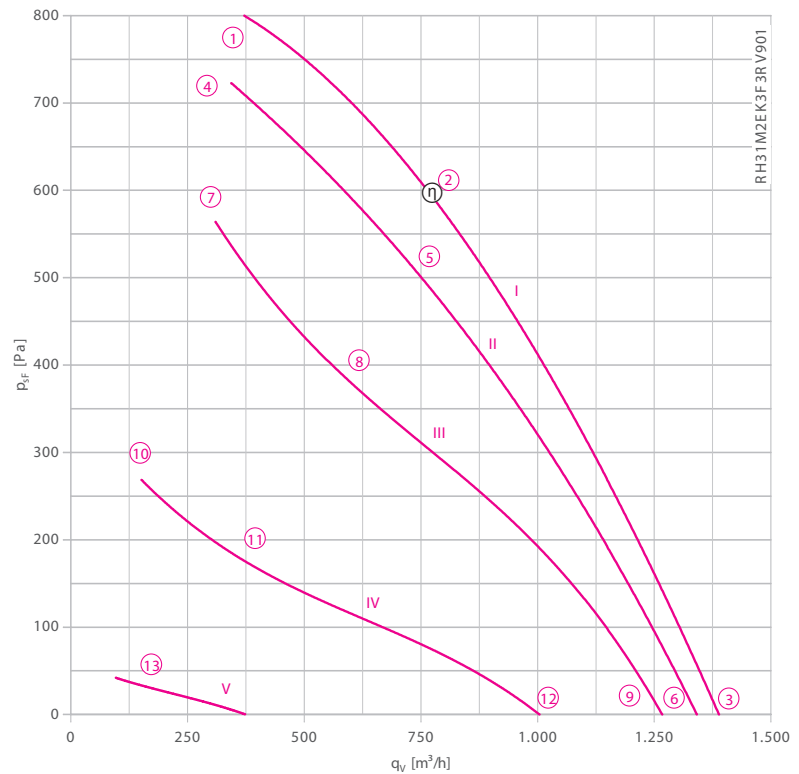
RH31M-2E



Description

Motor technology: AC
Rated voltage U_N : 1~ 230 V $\pm$ 10 %*
Rated frequency f_N : 50 Hz*
Motor input power P_1 : 0.36 kW*
Rated current I_N : 1.60 A*
Rated speed n_N : 2840 min⁻¹*
Service capacitor C_{400V} : 10.0 μ F
Dynamic pressure: $p_{d2} = 5.4 \cdot 10^{-5} \cdot q_v^2$ [Pa]
Thermal class: THCL155*
Min. permitted ambient temperature $t_{R(min)}$: -25 °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
* Rated data

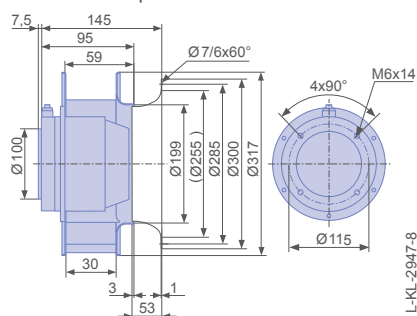
Characteristic curve



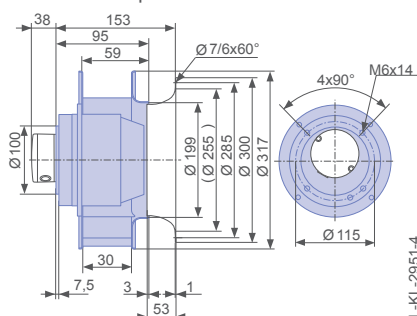
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Dimensions [mm]

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	Operating point	Current	Motor input power	Speed	Suction side sound power level
		U [V]		I [A]	P ₁ [W]	n [min ⁻¹]	L _{WA5} [dB]
RH31M-2EK.3F.3R	I	230	①	1.40	340	2860	
		230*	②	1.60*	360*	2840*	81
		230	③	1.20	290	2900	83
	II	160	④	1.80	280	2710	
		160	⑤	2.00	310	2670	80
		160	⑥	1.50	240	2800	82
	III	130	⑦	2.10	270	2380	
		130	⑧	2.30	300	2250	76
		130	⑨	1.70	210	2640	81
	IV	105	⑩	2.30	230	1640	
		105	⑪	2.30	230	1520	67
		105	⑫	2.00	200	2170	77
	V	60	⑬	1.40	80	650	

*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-2EK.3F.3R	RH31M-2EK.3F.3R
Article no.	109973	121891
Weight [kg]	7.00	7.00
* Inlet ring not included		

Control technology

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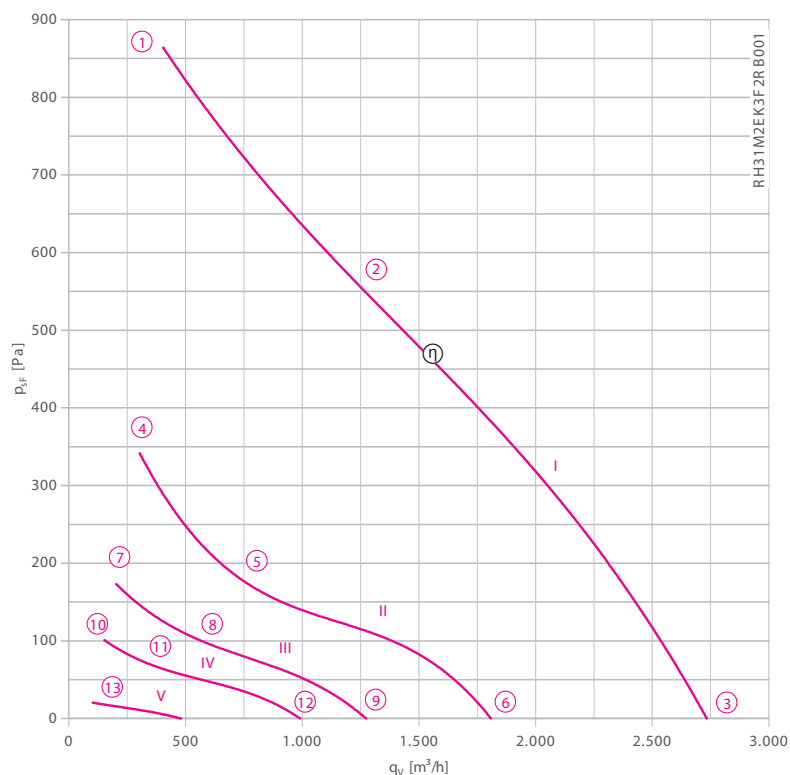
RH31M-2E



Description

Motor technology: AC
Rated voltage U_N : 1~ 230 V $\pm$ 10 %*
Rated frequency f_N : 50 Hz*
Motor input power P_1 : 0.63 kW*
Rated current I_N : 2.80 A*
Rated speed n_N : 2470 min⁻¹*
Starting current I_A : 4.60 A
Service capacitor C_{400V} : 10.0 μ F
Dynamic pressure: $p_{d2} = 1 \cdot 10^{-6} \cdot q_v^2$ [Pa]
Thermal class: **THCL155***
Min. permitted ambient temperature $t_{R(min)}$: -25 °C
Max. permitted ambient temperature $t_{R(max)}$: 40 °C
Protection class: IP10
Motor protection: Thermal contact
Impeller : Aluminium, uncoated
Motor: 1 coat paint, pebble grey
* Rated data

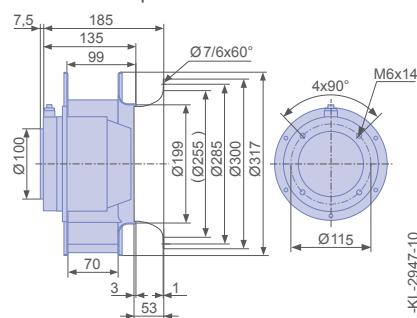
Characteristic curve



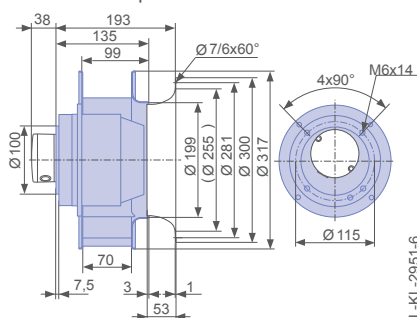
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Dimensions [mm]

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	Operating point	Current	Motor input power	Speed	Suction side sound power level
		U [V]		I [A]	P _i [W]	n [min ⁻¹]	L _{WAS} [dB]
RH31M-2EK.3F.2R	I	230	①	2.50	580	2500	
		230*	②	2.80*	630*	2470*	80
		230	③	2.30	530	2670	89
	II	160	④	2.50	380	1540	
		160	⑤	2.50	390	1390	68
		160	⑥	2.40	380	1720	82
	III	130	⑦	2.10	260	1130	
		130	⑧	2.20	270	1150	68
		130	⑨	2.10	260	1210	77
	IV	105	⑩	1.80	170	880	
		105	⑪	1.80	180	820	57
		105	⑫	1.80	180	950	71
	V	60	⑬	1.00	58	420	

*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-2EK.3F.2R	RH31M-2EK.3F.2R
Article no.	210742	121890
Weight [kg]	7.20	7.10
* Inlet ring not included		

Control technology

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