

S-series

for single phase alternating current, 4 pole

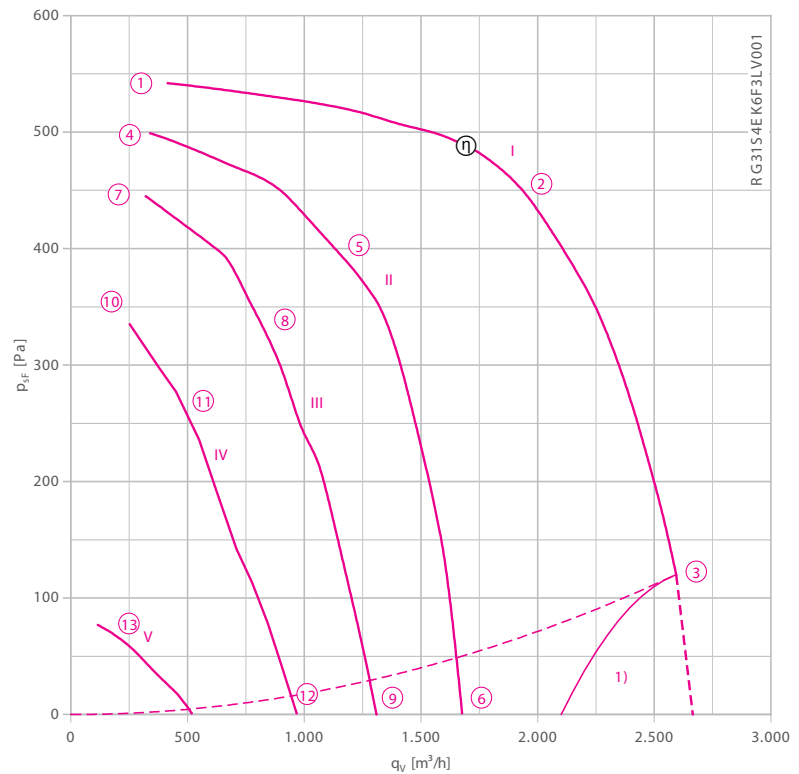
RG31S-4E



Description

Motor technology: AC
Rated voltage U_N : 1~ 230 V $\pm$ 10 %*
Rated frequency f_N : 50 Hz* (60Hz data available)
Motor input power P_1 : 1.25 kW*
Rated current I_N : 5.70 A*
Rated speed n_N : 1070 min⁻¹*
Starting current I_A : 8.50 A
Current increase ΔI : 0 %
Service capacitor C_{400V} : 20.0 μ F
Dynamic pressure: $p_{d2} = 3.7 \cdot 10^{-5} \cdot q_v^2$ [Pa]
Thermal class: **THCL155***
Min. permitted ambient temperature $t_{R(min)}$: -20 °C
Max. permitted ambient temperature $t_{R(max)}$: 40 °C
Minimum pressing $p_{SF(min)}$: 120 Pa
Protection class: IP54
Motor protection: Thermal contact
Impeller : Galvanised sheet metal, uncoated
Motor: 1 coat paint, pebble grey
Housing: Housing unpainted
Conformity: ErP 2013, CE
ErP-data
Efficiency η_{statA} : 32.1 %
Efficiency: $N_{actual} = 39.2 / N_{target} = 37$ **
* Rated data
**ErP 2013

Characteristic curve



Measured in housing from ZIEHL-ABEGG.

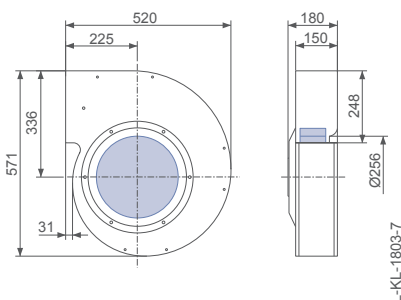
1) Do not operate in this area

- Connection diagram
- System components

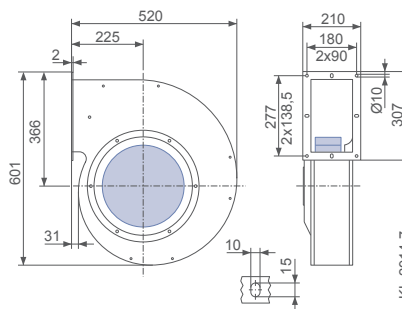
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Dimensions [mm]

Fan with housing, single inlet, without flange



Fan with housing, single inlet, with flange



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]
RG31S-4EK.6F.3L	I	230	①	2.50	540	1440	
		230	②	3.90	850	1330	81
		230*	③	5.70*	1250*	1070*	85
	II	160	④	2.30	370	1380	
		160	⑤	3.30	510	1210	
		160	⑥	4.70	670	620	
	III	130	⑦	2.30	300	1310	
		130	⑧	2.80	360	1160	
		130	⑨	3.90	440	480	
	IV	105	⑩	2.30	230	1150	
		105	⑪	2.60	260	960	
		105	⑫	3.10	280	370	
	V	60	⑬	1.70	89	470	

*rated data

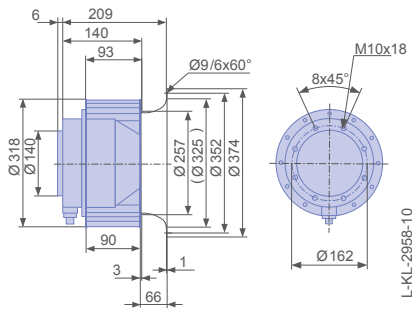
Fan ordering information

Design	RG (without flange)	RG (with flange)	RE
Installation position	H	H	H/Vu/Vo
Electrical connection	Supply cable lateral 105cm	Supply cable lateral 105cm	Supply cable lateral 105cm
			
Type	RG31S-4EK.6F.3L	RG31S-4EK.6F.3L	RE31P-4EK.6F.3L
Article no.	210635	122295	210633
Weight [kg]	25.00	25.60	14.50

Control technology

Frequency inverter Fcontrol 1~  ➤ Page 296	Motor protection units 1~  ➤ Page 344	Transformer-based controllers 1~  ➤ Page 334	Electronic voltage controllers 1~  ➤ Page 310
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Motorised impeller



Used housing

