

S-series

for three phase alternating current, 4 pole

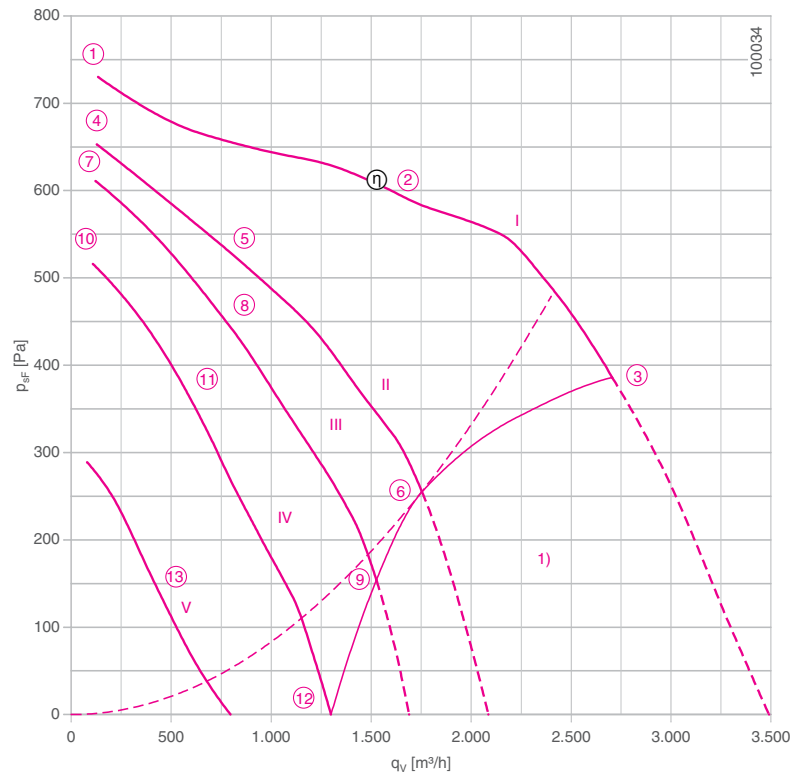
RG31S-4D



Description

Motor technology: AC
Rated voltage U_N : 3~ 230/400 V (Δ/Y) $\pm 10\%$
Rated frequency f_N : 50 Hz*
Motor input power P_1 : 1.30 kW*
Rated current I_N : 3.70/2.10 A*
Rated speed n_N : 1260 min⁻¹*
Starting current I_A : 12.00 A / 7.00 A
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 $p_{SF(min)}$: 390 Pa
Protection class: IP54
Motor protection: Thermal contact
Impeller : Galvanised sheet metal, uncoated
Motor: 1 coat paint, pebble grey
Housing: Housing unpainted
Conformity: ErP 2015, CE
ErP-data
Efficiency η_{statA} : 36.5 %
Efficiency: $N_{actual} = 45.4 / N_{target} = 44^{**}$
Frequency inverter required
* Rated data
**ErP 2015

Characteristic curve



Measured in housing from ZIEHL-ABEGG.

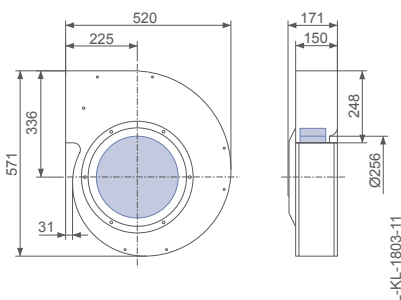
1) Do not operate in this area

- Connection diagram
- System components

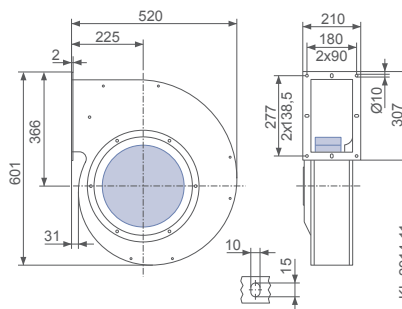
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Dimensions [mm]

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-4DK.4I.3L	I	400	①	1.50	430	1450	
		400	②	1.85	880	1370	82
		400*	③	2.30*	1250*	1280*	84
	II	230	④	0.95	300	1380	
		230	⑤	1.40	510	1270	
		230	⑥	2.30	830	1000	
	III	180	⑦	1.00	280	1310	
		180	⑧	1.50	420	1160	
		180	⑨	2.30	640	760	
	IV	140	⑩	1.10	250	1190	
		140	⑪	1.50	320	1020	
		140	⑫	2.10	440	490	
	V	90	⑬	1.25	165	730	

*rated data

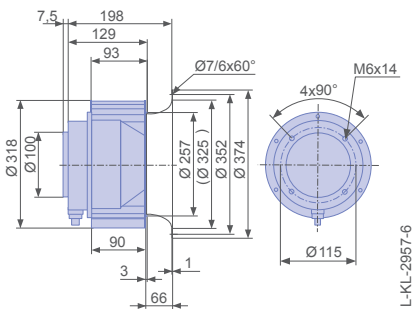
Fan ordering information

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-4DK.4I.3L	RG31S-4DK.4I.3L	RE31P-4DK.4I.3L
Article no.	162080	162202	209839
Weight [kg]	18.70	19.30	9.70

Control technology

Frequency inverter Fcontrol 3~  ➤ Page 302	Motor protection units 3~  ➤ Page 344	Transformer-based controllers 3~  ➤ Page 334	Electronic voltage controllers 3~  ➤ Page 324
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Motorised impeller



Used housing

