

P-series

for single phase alternating current, 4 pole

RG31P-4E



Description

Motor technology: AC

Rated voltage U_N : 1~230 V $\pm$ 10 %*

Rated frequency f_n : 50 Hz*

Motor input power P_i : 2.40 kW*

Rated current I_n : 11.00 A*

Rated speed n_n : **1340 min⁻¹***

Starting current I_s : 26.00 A

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Service capacitor C_{400V} : 35.0 μF
Dynamic pressure: $p_{d2} = 7.1 \cdot 10^{-6} \cdot q_v^2$ [Pa]

Thermal class: **THCL155***

Min. permitted ambient temperature t_{amb} : -20 °C

Min. permitted ambient temperature

Max. permitted ambient temperature
Minimum pressing pressure

Minimum pressing $p_{sF(min)}$: 0 Pa
Protection class: IP54

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Motor protection: Thermal contact

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 Impeller: Galvanized sheet metal

Impeller : Galvanised sheet metal, uncoated

Motor: 1 coat paint, pebble grey

Housing: Housing unpainted

Conformity: ErP 2013, CE

ErP-data

ErP-data
Efficiency

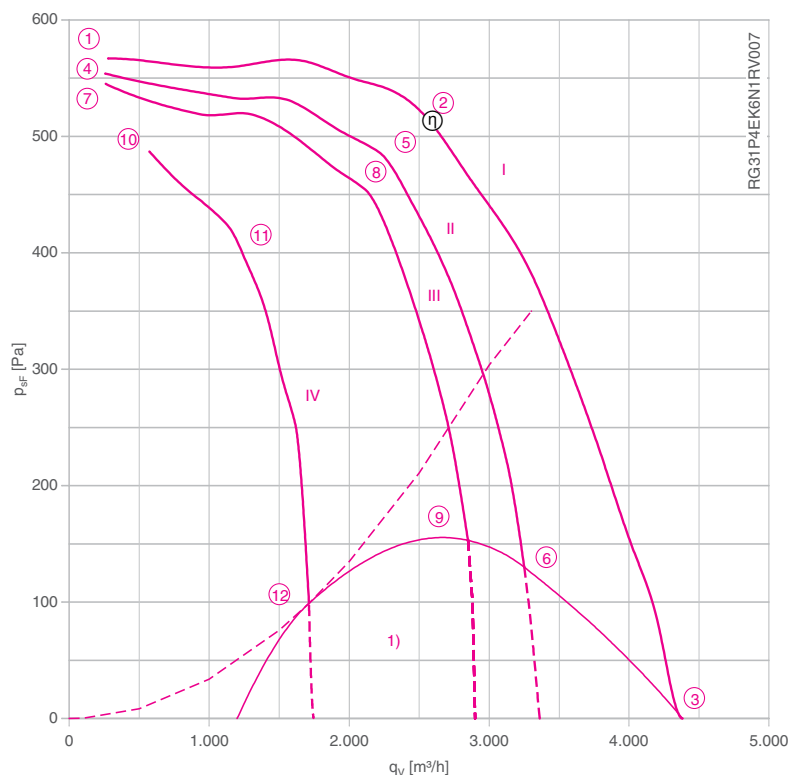
Efficiency η_{statA} : 31.1 %
Efficiency: $N_{\text{statA}} = 37.0$

Efficiency: $N_{\text{actual}} = 37.0 / N_{\text{target}} = 37^{**}$
 * Rated data

* Rated data
**E+R 2013

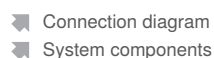
ErP 2013

Characteristic curve



Measured in housing from ZIEHL-ABEGG.

1) Do not operate in this area



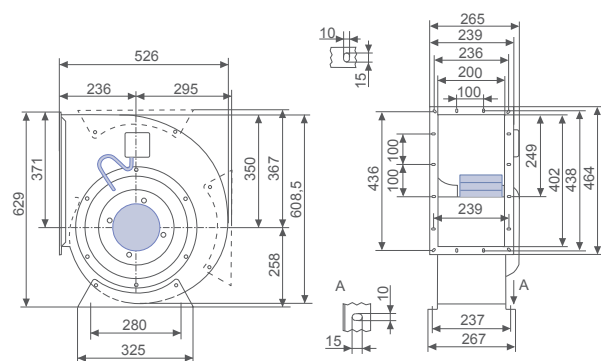
1360-104XA

Page 367

Page 262

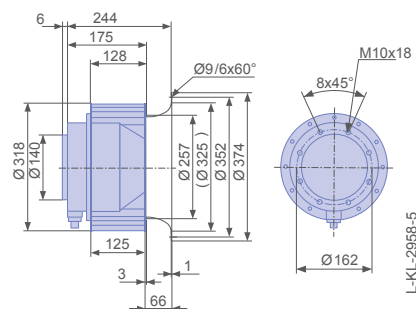
Dimensions [mm]

Fan with housing, single inlet



- KL-2956-3

Motorised impeller



- KI -2958-5

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]
RG31P-4EK.6N.1R	I	230	①	2.80	610	1470	
		230	②	5.40	1250	1420	86
		230*	③	11.00*	2400*	1340*	92
	II	170	④	2.80	470	1460	
		170	⑤	5.60	960	1360	83
		170	⑥	11.00	1700	1050	90
	III	155	⑦	2.80	420	1450	
		155	⑧	6.00	910	1320	80
		155	⑨	10.00	1450	1040	87
	IV	110	⑩	3.00	330	1400	
		110	⑪	4.90	520	1270	79
		110	⑫	8.60	840	730	79

*rated data

Fan ordering information

Design	RG	RE
Installation position	H	H/Vu/Vo
Electrical connection	Terminal box fixed on housing.	Supply cable lateral 105cm
		
Type	RG31P-4EK.6N.1R	RE31P-4EK.6N.1R
Article no.	110522	107718H
Weight [kg]	35.10	22.80

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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Used housing

