

P-series

for three phase alternating current, 4 pole

RD31P-4D



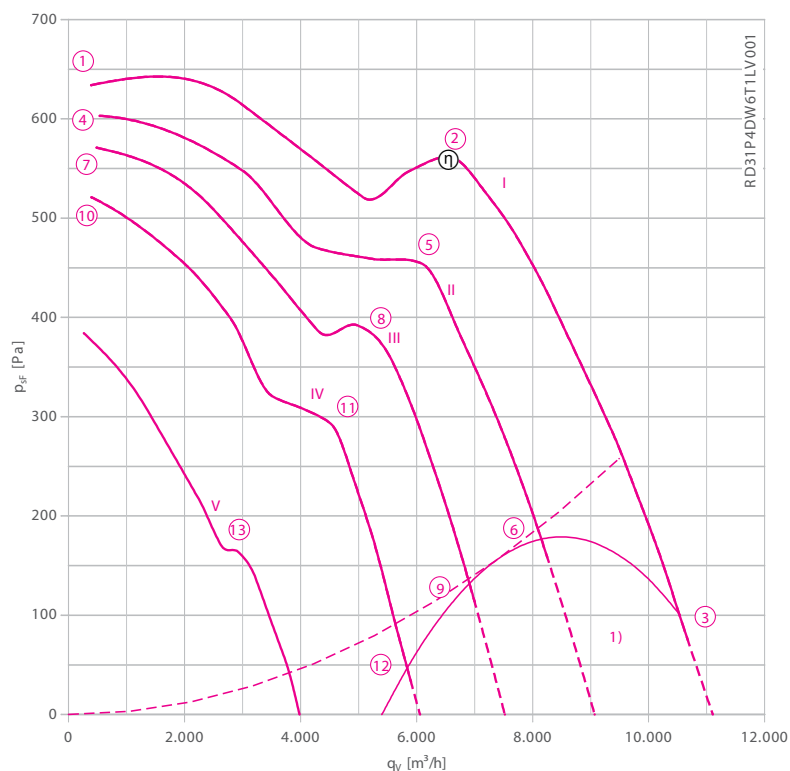
Description

Motor technology: AC
Rated voltage U_N : 3~ 230/400 V (Δ/Y) ± 10 %*
Rated frequency f_N : 50 Hz* (60Hz data available)
Motor input power P_i : 5.50 kW*
Rated current I_N : 16.00/9.20 A*
Rated speed n_N : 1330 min⁻¹*
Thermal class: THCL155*
Min. permitted ambient temperature $t_{R(min)}$: -20 °C
Max. permitted ambient temperature $t_{R(max)}$: 40 °C
Minimum pressing $p_{SF(min)}$: 100 Pa
Protection class: IP54
Motor protection: thermal contact
Impeller : Impeller made of galvanised sheet metal,
Motor: 1 coat paint, pebble grey
Conformity: ErP 2013, CE

ErP-data

Efficiency η_{statA} : 34.9 %
Efficiency: $N_{actual} = 38.3 / N_{target} = 37$ **
* Rated data
**ErP 2013

Characteristic curve



Measured in housing from ZIEHL-ABEGG.

1) Do not operate in this area

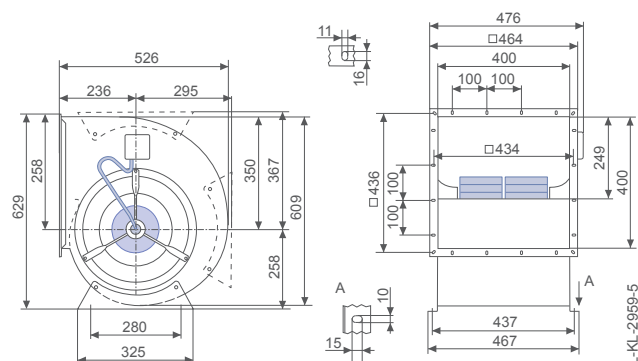
- Connection diagram
- System components

1360-106XB

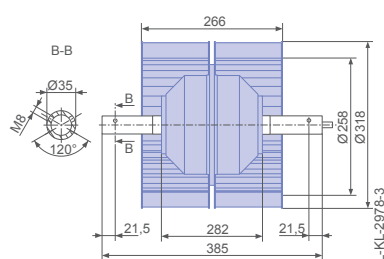
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Dimensions [mm]

Fan with housing, double inlet



Motorised impeller

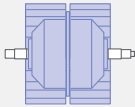


Performance data

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]
RD31P-4DW.6T.1L	I	400	①	4.80	1200	1480	
		400	②	6.40	3100	1410	91
		400*	③	9.20*	5500*	1330*	98
	II	230	④	3.00	850	1440	
		230	⑤	6.80	2500	1280	88
		230	⑥	9.20	3600	1150	92
	III	180	⑦	2.90	780	1400	
		180	⑧	6.70	2000	1200	86
		180	⑨	9.20	2800	1020	91
	IV	140	⑩	3.20	820	1350	
		140	⑪	7.30	1700	1030	82
		140	⑫	9.20	2100	810	84
	V	90	⑬	6.30	910	800	

*rated data

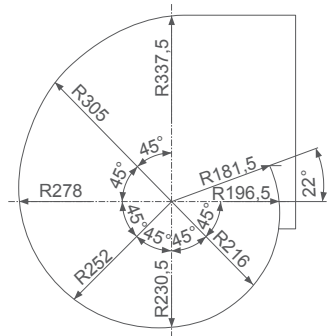
Fan ordering information

Design	RD	RZ
Installation position	H	H
Electrical connection	Terminal box fixed on housing	Connecting cable axial 95 cm from axle end
		
Type	RD31P-4DW.6T.1L	RZ31P-4DW.6T.1L
Article no.	210419	210418
Weight [kg]	53.30	37.60
* Inlet ring not included		

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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Used housing



L-KL-2949-13