

P-series

for three phase alternating current, 6 pole

RD31P-6D



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 : 2.00 kW*

Rated current I_N : 5.90/3.40 A*

Rated speed n_N : **820 min⁻¹**

Thermal class: **THCL155***

Min. permitted ambient temperature $t_{B(min)}$: -20 °C

Max. permitted ambient temperature $t_{R(max)}$: 40 °C

Protection class: IP54

Motor protection: thermal contact

Impeller : Impeller made of galvanised sheet metal,

Motor: 1 coat paint, pebble grey

Conformity: ErP 2015, CE

ErP-data

Efficiency η_{statA} : 36.0 %

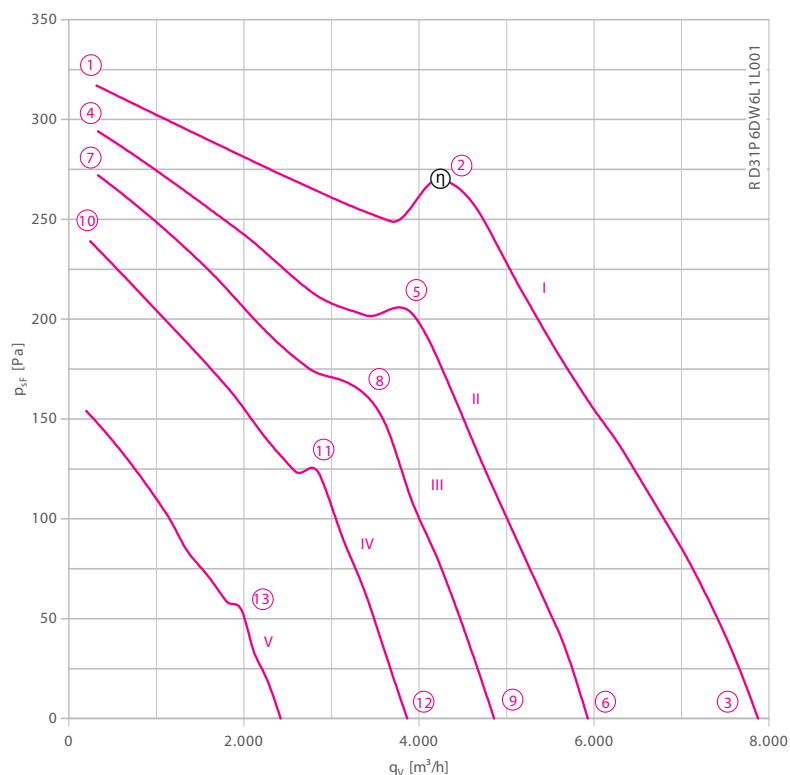
Efficiency: $N_{\text{actual}} = 44.2 / N_{\text{target}} = 44^{**}$

Frequency inverter required

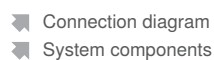
* Rated data

**ErP 2015

Characteristic curve



Measured in housing from ZIEHL-ABEGG.



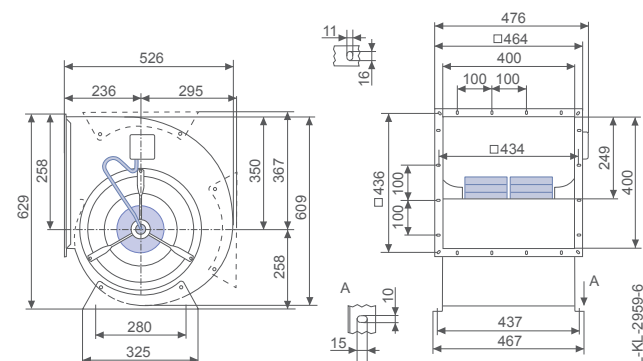
1360-106XB

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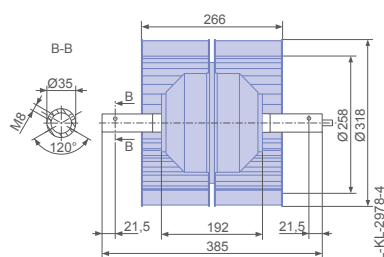
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Dimensions [mm]

Fan with housing, double inlet



Motorised impeller

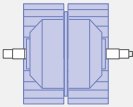


Performance data

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-6DW.6L.1L	I	400	①	1.90	380	980	
		400	②	2.20	910	930	79
		400*	③	3.40*	2000*	820*	85
	II	230	④	1.15	290	940	
		230	⑤	2.00	730	810	75
		230	⑥	3.20	1200	620	78
	III	180	⑦	1.10	260	910	
		180	⑧	1.90	550	760	72
		180	⑨	3.00	860	520	74
	IV	140	⑩	1.10	230	850	
		140	⑪	1.90	440	640	69
		140	⑫	2.60	570	420	69
	V	90	⑬	1.50	210	550	

*rated data

Fan ordering information

Design	RD	RZ
Installation position	H	H
Electrical connection	Terminal box fixed on housing	Connecting cable axial 115 cm from axle end
		
Type	RD31P-6DW.6L.1L	RZ31P-6DW.6L.1L
Article no.	210258	210257
Weight [kg]	38.30	22.50
* 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

