

S-series

for single phase alternating current, 4 pole

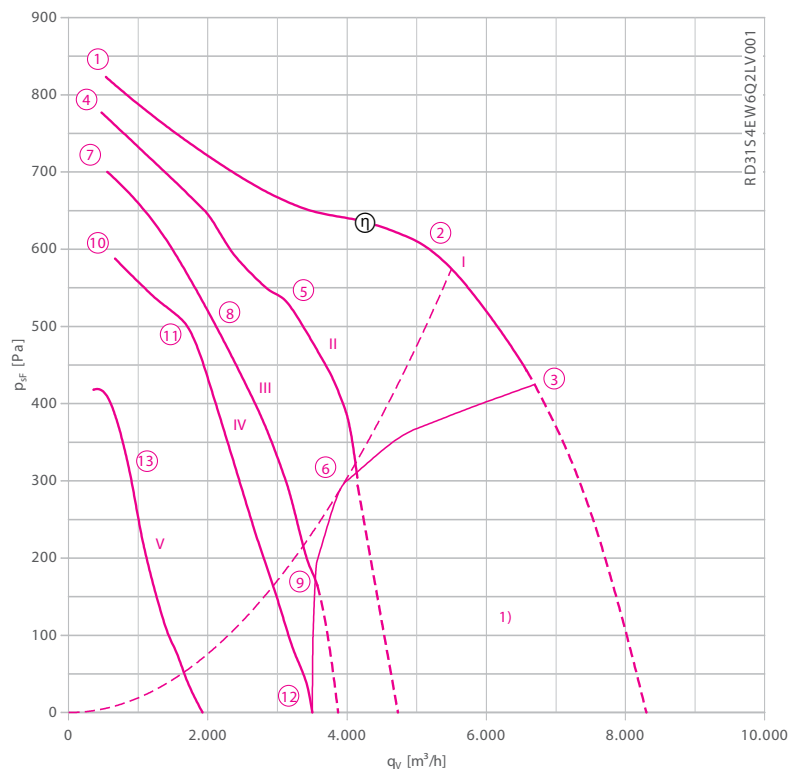
RD31S-4E



Description

Motor technology: AC
Rated voltage U_N : 1~ 230 V $\pm$ 10 %*
Rated frequency f_N : 50 Hz*
Motor input power P_1 : 3.10 kW*
Rated current I_N : 13.50 A*
Rated speed n_N : 1210 min⁻¹*
Starting current I_A : 28.00 A
Service capacitor C_{400V} : 40.0 μ F
Thermal class: THCL155*
Min. permitted ambient temperature $t_{R(min)}$: -20 °C
Max. permitted ambient temperature $t_{R(max)}$: 4 °C
Minimum pressing $p_{SF(min)}$: 420 Pa
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} : 40.6 %
Efficiency: $N_{actual} = 45.2 / N_{target} = 44$ **
* Rated data
**ErP 2015

Characteristic curve



Measured in housing from ZIEHL-ABEGG.

1) Do not operate in this area

- Connection diagram
- System components

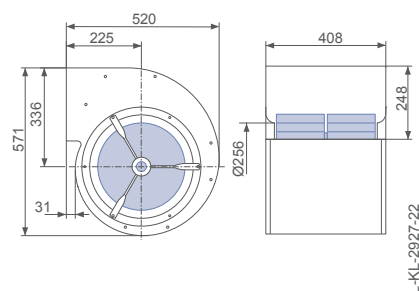
1360-104XB

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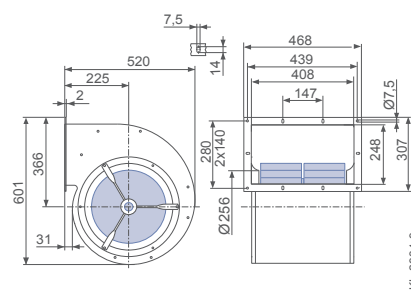
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Dimensions [mm]

Fan with housing, double inlet
without flange



Fan with housing, double inlet
with flange

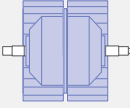


Performance data

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]
RD31S-4EW.6Q.2L	I	230	①	5.10	1100	1450	
		230	②	9.30	2100	1350	86
		230*	③	13.50*	3100*	1210*	90
	II	160	④	5.20	820	1400	
		160	⑤	8.60	1400	1270	82
		160	⑥	12.50	1900	980	80
	III	130	⑦	5.60	720	1350	
		130	⑧	7.20	940	1250	79
		130	⑨	12.00	1400	680	72
	IV	105	⑩	6.30	650	1240	
		105	⑪	7.60	760	1100	73
		105	⑫	11.00	1000	260	58
	V	60	⑬	7.40	610	940	53

*rated data

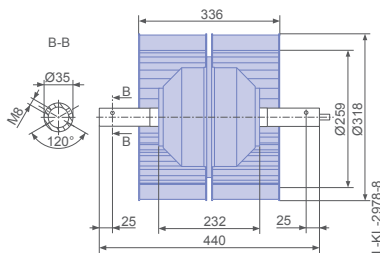
Fan ordering information

Design	RD (without flange)	RD (with flange)	RZ
Installation position	H	H	H
Electrical connection	Connecting cable axial 110 cm from axle end	Connecting cable axial 110 cm from axle end	Connecting cable axial 110 cm from axle end
			
Type	RD31S-4EW.6Q.2L	RD31S-4EW.6Q.2L	RZ31P-4EW.6Q.2L
Article no.	109423	122296	210300
Weight [kg]	42.50	43.50	30.60

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

