

S-series

for three phase alternating current, 4 pole

RD40S-4D



Description

Motor technology: AC
Rated voltage U_N : 3~ 400 V (Δ) ± 10 %*
Rated frequency f_N : 50 Hz*
Motor input power P_1 : 9.00 kW*
Rated current I_N : 14.50 A*
Rated speed n_N : 1220 min⁻¹*
Thermal class: THCL155*
Min. permitted ambient temperature $t_{R(min)}$: -20 °C
Max. permitted ambient temperature $t_{R(max)}$: 4 °C
Minimum pressing $p_{SF(min)}$: 60 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

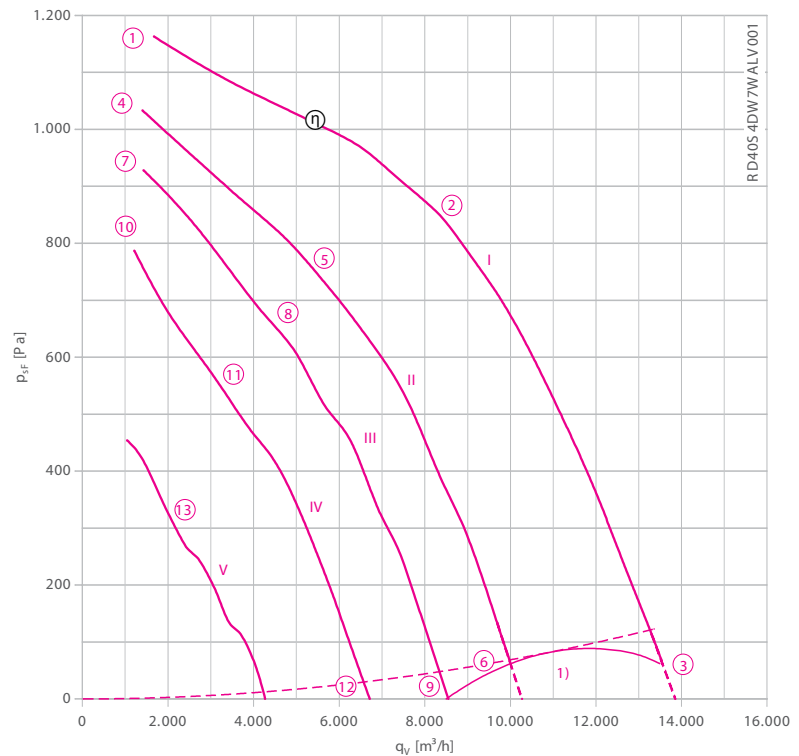
ErP-data

Efficiency η_{statA} : 46.6 %
Efficiency: $N_{actual} = 49.7 / N_{target} = 44$ **

* Rated data

**ErP 2015

Characteristic curve



Measured in housing from ZIEHL-ABEGG.

1) Do not operate in this area

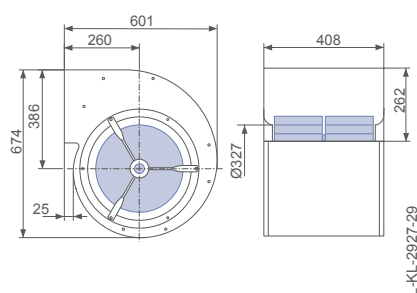
- Connection diagram
- System components

1360-106XB

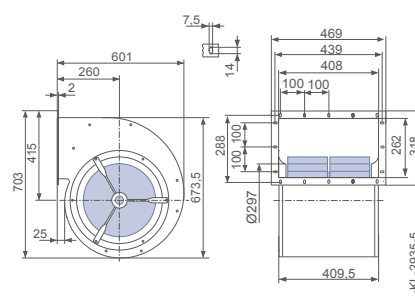
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Dimensions [mm]

Fan with housing, double inlet
without flange



Fan with housing, double inlet
with flange

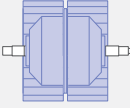


Performance data

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]
RD40S-4DW.7W.AL	I	400	①	4.80	1800	1450	
		400	②	8.50	4800	1340	92
		400*	③	14.50*	9000*	1220*	97
	II	230	④	4.50	1500	1370	
		230	⑤	8.60	3100	1180	86
		230	⑥	14.50	5200	900	90
	III	180	⑦	4.90	1350	1300	
		180	⑧	8.40	2400	1100	83
		180	⑨	14.00	3900	730	87
	IV	140	⑩	5.30	1200	1190	
		140	⑪	8.10	1750	970	80
		140	⑫	12.00	2600	580	81
	V	90	⑬	6.80	930	730	

*rated data

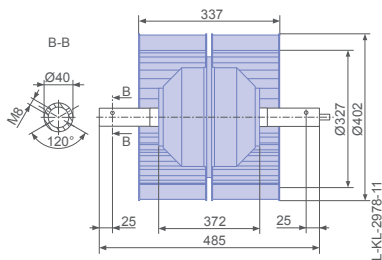
Fan ordering information

Design	RD (without flange)	RD (with flange)	RZ
Installation position	H	H	H
Electrical connection	Connecting cable axial 105 cm from axle end	Connecting cable axial 105 cm from axle end	Connecting cable axial 105 cm from axle end
			
Type	RD40S-4DW.7W.AL	RD40S-4DW.7W.AL/ ABF	RZ40P-4DW.7W.1L
Article no.	209357	209358	209356
Weight [kg]	82.00	82.90	67.30

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

